



# 2024

## LASHING GEAR & MARINE HARDWARE Catalog

Container & RO/RO Ships | Ports & Terminals

AUTHORIZED DISTRIBUTOR  
MacGregor and Allset brands of lashing equipment



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Feb. 15, 2024

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President / Owner

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10180 New Berlin Road • Jacksonville, Florida 32226

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### Delivery Terms:

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## WARRANTY INFORMATION

All Intermodal Hardware sold by Buffers USA Inc., such as the parts shown below, are sold with a **one-year warranty** from date of receipt against defects in materials or workmanship, or failing function not caused by normal wear and tear. These products include:

### Products

- Twistlocks & Pinlocks for Chassis & Trailers (all models)
- Chassis & Trailer parts for Landing Legs, Pinlocks, Twistlocks, etc.
- Container Corner Castings (all models)
- Lashing material for ships, regardless of brand name
- Marine Twistlocks (both Manual & Semi-Automatic)
- Web Ratchet Assemblies (all sizes & models)
- Chain Lashing, including Binders & all hardware
- Castings & Forgings for Rail Cars
- Lug Nut Security Seals (models 1326 & 2988)

In case of a warranty claim, Buffers USA Inc. will replace or repair the product in question provided it is sent prepaid to our Jacksonville, FL address, unless other arrangements are agreed. After repair or replacement, the product will be delivered free of charge to the customer's address. The product warranty only covers the product sold and its value, and does not include responsibility for consequential damages or other potential costs resulting from a warranty claim other than return freight.

**PLEASE NOTE:** Always contact our office to inform us of a potential warranty claim before anything is shipped to us. Thank you.

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Rev. 2024-03

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- 2903** WEB WINCHES, WINCH RAILS & WINCH BARS
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**BUFFERS USA INC**

"The Intermodal Hardware Specialists"

**ToC: L-S**



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REF

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**2004**

**MODEL 2004-8878**

**SASH BELT**

Dayglo Polyester w/ Reflective Material  
0.5 LBS / 0.23 Kg



**MODEL 2004-8879-L/XL**

**MODEL 2004-8879-XL/XXL**

**TRAFFIC VEST**

Dayglo Polyester Mesh w/ Reflective Material  
0.1 LBS / 0.045 Kg

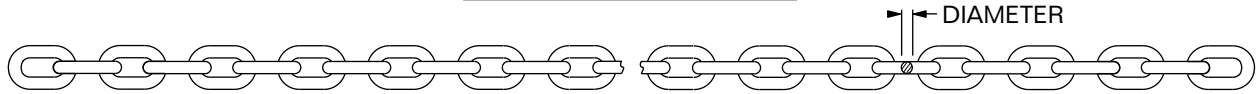


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### SHORT LINK CHAIN



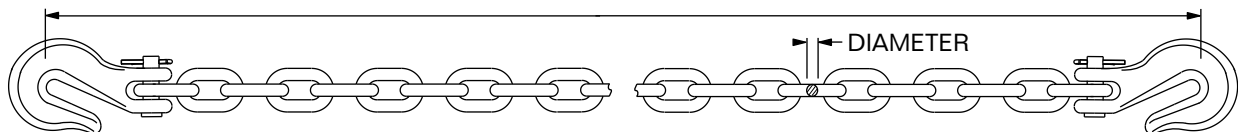
ALL CHAIN PER NACM96 SPECIFICATIONS (NOT FOR LIFTING)  
OTHER SIZES AVAILABLE AS SPECIAL ORDER.

**MBS IS:**  
**3 x WLL FOR GRADE 43**  
**4 x WLL FOR GRADE 70 & 80**

MODEL	CHAIN DIA	GRADE	FINISH	WORKING LOAD LIMIT	WEIGHT PER FT	FT PER DRUM
2901-5/16GR70NACM96	5/16"	GRADE 70 TRANSPORT	YELLOW ZINC	4,700 LBS	1.15 LBS / 0.52 Kg	450'
2901-3/8GR43NACM96	3/8"	GRADE 43 HIGH TEST	SELF-COLOR	5,400 LBS	1.40 LBS / 0.64 Kg	400'
2901-3/8GR70NACM96	3/8"	GRADE 70 TRANSPORT	YELLOW ZINC	6,600 LBS	1.43 LBS / 0.65 Kg	400'
2901-1/2GR70NACM96	1/2"	GRADE 70 TRANSPORT	YELLOW ZINC	11,300 LBS	2.64 LBS / 1.20 Kg	200'
2901-1/2GR80ASTM-A391	1/2"	GRADE 80, ALLOY, HS	BLACK	12,000 LBS	2.50 LBS / 1.13 Kg	200'
2901-5/8GR43NACM96	5/8"	GRADE 43 HIGH TEST	SELF-COLOR	13,000 LBS	3.57 LBS / 1.62 Kg	150'
2901-5/8GR80	5/8"	GRADE 80, ALLOY	COLD ZINC	18,100 LBS	3.75 LBS / 1.70 Kg	150'

### CHAIN ASSEMBLIES

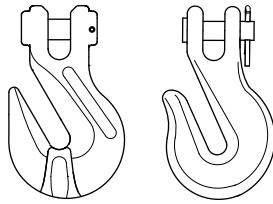
CHAIN ASSEMBLY LENGTHS MEASURED FROM INSIDE THE HOOKS AS SHOWN



ALL CHAIN PER NACM96 SPECIFICATIONS (NOT FOR LIFTING)  
CLEVIS GRAB HOOKS ARE STANDARD ON CHAIN ASSEMBLIES.  
EYE HOOKS AVAILABLE AS SPECIAL ORDER.

**MBS IS:**  
**3 x WLL FOR GRADE 43**  
**4 x WLL FOR GRADE 70**

MODEL	CHAIN DIA	GRADE	FINISH	LENGTH	WORKING LOAD LIMIT	WEIGHT PER PC	PCS PER DRUM
2901-5/16X20HHGR70	5/16"	GRADE 70 TRANSPORT	YELLOW ZINC	20'	4,700 LBS	20.5 LBS / 9.3 Kg	25 PCS
2901-5/16X25HHGR70	5/16"	GRADE 70 TRANSPORT	YELLOW ZINC	25'	4,700 LBS	28.7 LBS / 13.0 Kg	25 PCS
2901-3/8X20HHGR43	3/8"	GRADE 43 HIGH TEST	SELF-COLOR	20'	5,400 LBS	33.0 LBS / 14.9 Kg	25 PCS
2901-3/8X20HHGR70	3/8"	GRADE 70 TRANSPORT	YELLOW ZINC	20'	6,600 LBS	31.3 LBS / 14.2 Kg	25 PCS
2901-1/2X20HHGR70	1/2"	GRADE 70 TRANSPORT	YELLOW ZINC	20'	11,300 LBS	57.0 LBS / 25.9 Kg	10 PCS
2901-1/2X50HHGR70	1/2"	GRADE 70 TRANSPORT	YELLOW ZINC	50'	11,300 LBS	122.3 LBS / 55.5 Kg	4 PCS



### CLEVIS GRAB HOOKS

**MBS is:**  
**3 x WLL for GRADE 43**  
**4 x WLL for GRADE 70 & 80**

MODEL	FOR CHAIN DIAMETER	GRADE	FINISH	WORKING LOAD LIMIT (WLL)	WEIGHT (per item)
2901-5/16GHGR70	5/16"	GRADE 70 TRANSPORT	YELLOW ZINC	4,700 LBS	0.75 LBS / 0.34 Kg
2901-3/8GHGR43	3/8"	GRADE 43 HIGH-TEST	SELF-COLOR	5,400 LBS	1.15 LBS / 0.52 Kg
2901-3/8GHGR70	3/8"	GRADE 70 TRANSPORT	YELLOW ZINC	6,600 LBS	1.1 LBS / 0.5 Kg
2901-3/8GHGR80-CC	3/8"	GRADE 80 CRADLE	PAINTED	7,100 LBS	1.65 LBS / 0.75 Kg
2901-1/2GHGR70	1/2"	GRADE 70 TRANSPORT	YELLOW ZINC	11,300 LBS	2.4 LBS / 1.09 Kg
2901-1/2GHGR80-CC	1/2"	GRADE 80 CRADLE	PAINTED	12,000 LBS	3.3 LBS / 1.5 Kg
2901-5/8GHGR43	5/8"	GRADE 43 HIGH-TEST	SELF-COLOR	13,000 LBS	4.2 LBS / 1.9 Kg
2901-5/8GHGR80	5/8"	GRADE 80	ZINC-PLATED	18,100 LBS	5.7 LBS / 2.58 Kg

2901

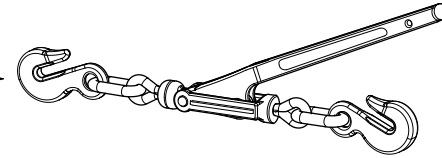


**MODEL 2901-1420**

**MODEL 2901-1424**

**LEVER LOAD BINDERS**

**GRAB HOOKS  
ON EACH END →**



MODEL	CHAIN SIZE	FEATURES	WORKING LOAD LIMIT (WLL)	MINIMUM BREAK STRENGTH (MBS)	WEIGHT
2901-1420	5/16" GR70 – 3/8" GR43	FULLY FORGED	5,400 LBS / 2,449 Kg	18,800 LBS / 8,527 Kg	7.85 LBS / 3.56 Kg
2901-1424	3/8" GR70 – 1/2" GR43	FULLY FORGED	9,200 LBS / 4,173 Kg	27,600 LBS / 12,519 Kg	12.85 LBS / 5.83 Kg

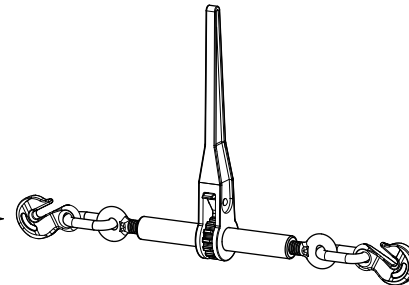
**MODEL 2901-1429**

**MODEL 2901-1430**

**MODEL 2901-1431**

**RATCHET LOAD BINDERS**

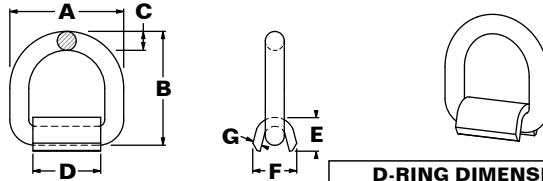
**GRAB HOOKS  
ON EACH END →**



MODEL	CHAIN SIZE	WORKING LOAD LIMIT (WLL)	MINIMUM BREAK STRENGTH (MBS)	WEIGHT	HANDLE	BARREL	TAKE-UP
2901-1429	5/16" GR70 – 3/8" GR43	5,400 LBS / 2,450 Kg	18,800 LBS / 8,527 Kg	10.4 LBS / 4.7 Kg	14"	10"	8"
2901-1430	3/8" GR70 – 1/2" GR43	9,200 LBS / 4,173 Kg	27,600 LBS / 12,519 Kg	11.78 LBS / 5.34 Kg	14"	10"	8"
2901-1431	1/2" GR70 – 5/8" GR43	13,000 LBS / 5,897 Kg	45,200 LBS / 20,502 Kg	15.35 LBS / 6.96 Kg	14"	10"	8"

2902

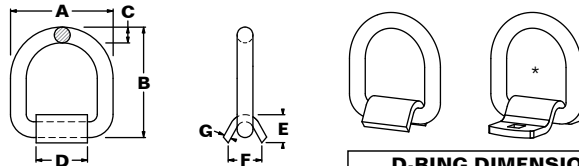
**FINISH:**  
 SC – SELF-COLOR  
 HDG – HOT-DIP GALVANIZED  
 PR – PRIMER



**STANDARD-TYPE D-RINGS**  
**NOTE:** D-Ring strength for tie-down purposes only. **NOT FOR LIFTING.**

MODEL	DESC.	FINISH	WEIGHT	SWL	MBS	D-RING DIMENSIONS			STRAP DIMENSIONS			
						A	B	C	D	E	F	G
2902-6367-1-SC	D-RING	SC	0.62 LBS 0.28 Kg	3,333 LBS 1,512 Kg	10,000 LBS 4,536 Kg	2-7/16"	2-7/16"	3/8"	1-1/2"	3/4"	1-1/2"	1/4"
2902-6367-2-SC	STRAP	SC	0.2 LBS 0.09 Kg			62.4 MM	62.6 MM	10 MM	38 MM	19 MM	38 MM	6 MM
2902-7576-1-SC	D-RING	SC	1.3 LBS 0.59 Kg	6,333 LBS 2,873 Kg	19,000 LBS 8,618 Kg	4-1/4"	4-1/4"	5/8"	2-1/2"	1-3/16"	1-3/4"	3/8"
2902-7576-2-SC	STRAP	SC	0.75 LBS 0.34 Kg			108.2 MM	108.2 MM	16 MM	63.5 MM	30 MM	44.5 MM	9 MM
2902-6490-1-PR	D-RING	PR	1.64 LBS 0.74 Kg	9,000 LBS 4,082 Kg	27,000 LBS 12,247 Kg	4-1/2"	4-1/2"	3/4"	2-11/16"	1-3/8"	1-7/8"	3/8"
2902-6490-2-PR	STRAP	PR	0.94 LBS 0.43 Kg			114.2 MM	114.2 MM	19 MM	68 MM	34 MM	47 MM	9 MM
2902-7399-1-HDG	D-RING	HDG	1.97 LBS 0.89 Kg	14,000 LBS 6,350 Kg	42,000 LBS 19,050 Kg	5"	5"	3/4"	3-1/8"	1-3/8"	1-7/8"	3/8"
2902-7399-1-SC	D-RING	SC	1.97 LBS 0.89 Kg									
2902-7399-2-SC	STRAP	SC	0.89 LBS 0.4 Kg									
2902-7593-1-SC	D-RING	SC	3.06 LBS 1.39 Kg	15,667 LBS 7,106 Kg	47,000 LBS 21,319 Kg	5"	5"	1"	2-9/16"	1-11/16"	2-1/4"	7/16"
2902-1578-2-SC	STRAP	SC	1.2 LBS 0.54 Kg									
2902-1578-1-HDG	D-RING	HDG	3.25 LBS 1.47 Kg	15,667 LBS 7,106 Kg	47,000 LBS 21,319 Kg	5"	6"	1"	2-9/16"	1-11/16"	2-1/4"	7/16"
2902-1578-1-SC	D-RING	SC	3.7 LBS 1.68 Kg									
2902-1578-2-HDG	STRAP	HDG	1.2 LBS 0.54 Kg									
2902-1578-2-SC	STRAP	SC	1.2 LBS 0.54 Kg									

**FINISH:**  
 SC – SELF-COLOR  
 ZP – ZINC-PLATED

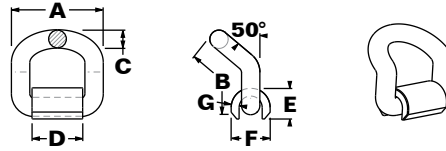


**STANDARD-TYPE D-RINGS**  
**NOTE:** D-Ring strength for tie-down purposes only. **NOT FOR LIFTING.**  
 \*D-Ring shown w/ 2902-7669 Bolt-On Strap

MODEL	DESC.	FINISH	WEIGHT	SWL	MBS	D-RING DIMENSIONS			STRAP DIMENSIONS			
						A	B	C	D	E	F	G
2902-7668-1-ZP	D-RING	ZP	0.64 LBS 0.29 Kg	3,333 LBS 1,512 Kg	10,000 LBS 4,536 Kg	3-1/4"	3-1/2"	1/2"	1-5/8"	7/8"	1-1/16"	1/4"
2902-7668-2-SC	STRAP	SC	0.25 LBS 0.11 Kg									
2902-7669	STRAP	ZP	0.4 LBS 0.18 Kg	4,100 LBS 1,859 Kg	12,300 LBS 5,579 Kg	82.5 MM	88.9 MM	12.7 MM	45 MM	22.7 MM	27 MM	7 MM
2902-8477-1-SC	D-RING	SC	0.55 LBS 0.25 Kg									
2902-8477-1-ZP	D-RING	ZP	0.55 LBS 0.25 Kg									
2902-8477-2-SC	STRAP	SC	0.35 LBS 0.16 Kg									



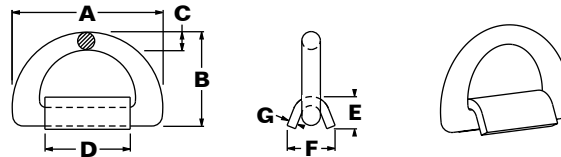
**FINISH:**  
 SC – SELF-COLOR  
 HDG – HOT-DIP GALVANIZED  
 PR – PRIMER



**BENT-TYPE D-RINGS**  
**NOTE:** D-Ring strength for tie-down purposes only. **NOT FOR LIFTING.**

MODEL	DESC.	FINISH	WEIGHT	SWL	MBS	D-RING DIMENSIONS			STRAP DIMENSIONS			
						A	B	C	D	E	F	G
<b>2902-7614-1-HDG</b>	D-RING	HDG	3.54 LBS 1.61 Kg	15,000 LBS 6,803 Kg	45,000 LBS 20,411 Kg	5"	5-1/2"	1"	2-9/16"	1-11/16"	2-7/32"	7/16"
<b>2902-1578-2-HDG</b>	STRAP	HDG	1.20 LBS 0.54 Kg									
<b>2902-1756-1-HDG</b>	D-RING	HDG	3.64 LBS 1.65 Kg	15,667 LBS 7,106 Kg	47,000 LBS 21,318 Kg	5"	6"	1"	2-9/16"	1-11/16"	2-7/32"	7/16"
<b>2902-1756-1-SC</b>	D-RING	SC	3.69 LBS 1.67 Kg									
<b>2902-1578-2-HDG</b>	STRAP	HDG	1.20 LBS 0.54 Kg									
<b>2902-1578-2-SC</b>	STRAP	SC	1.20 LBS 0.54 Kg									

**FINISH:**  
 SC – SELF-COLOR  
 HDG – HOT-DIP GALVANIZED  
 PR – PRIMER



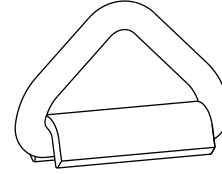
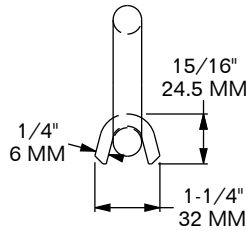
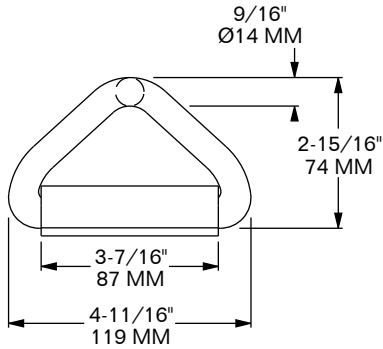
**MARINE-TYPE D-RINGS**  
**NOTE:** D-Ring strength for tie-down purposes only. **NOT FOR LIFTING.**

MODEL	DESC.	FINISH	WEIGHT	SWL	MBS	D-RING DIMENSIONS			STRAP DIMENSIONS			
						A	B	C	D	E	F	G
<b>2902-1160-1-SC</b>	D-RING	SC	0.75 LBS 0.34 Kg	907 Kg 2,000 LBS	2,722 Kg 6,000 LBS	4-3/4"	2-15/16"	9/16"	3-7/16"	1"	1-1/4"	1/4"
<b>2902-1160-2-HDG</b>	STRAP	HDG	0.50 LBS 0.23 Kg									
<b>2902-1160-2-SC</b>	STRAP	SC	0.50 LBS 0.23 Kg									
<b>5012-1854-1-HDG</b>	D-RING	HDG	5.70 LBS 2.59 Kg	20.5 M.TON 45,195 LBS	41 M.TON 90,390 LBS	8-7/8"	5-7/16"	1"	4-15/16"	1-13/16"	2-11/16"	1/2"
<b>5012-1854-2-HDG</b>	STRAP	HDG	2.92 LBS 1.32 Kg									
<b>3701-2526-1-PR</b>	D-RING	PR	5.70 LBS 2.58 Kg	25 M.TON 55,115 LBS	50 M.TON 110,230 LBS	8-3/4"	5-11/16"	1"	4-1/2"	2"	2-3/8"	9/16"
<b>3701-2526-1-SC</b>	D-RING	SC	5.67 LBS 2.57 Kg									
<b>3701-2526-2-PR</b>	STRAP	PR	2.77 LBS 1.26 Kg									
<b>3701-2526-2-SC</b>	STRAP	SC	2.77 LBS 1.26 Kg									
<b>5012-7092-1-PR</b>	D-RING	PR	7.75 LBS 3.52 Kg	25 M.TON 55,115 LBS	50 M.TON 110,230 LBS	9-7/16"	5-15/16"	1-1/4"	5-1/2"	2"	2-7/8"	9/16"
<b>5012-7092-1-HDG</b>	D-RING	HDG	7.93 LBS 3.60 Kg									
<b>5012-7092-2-PR</b>	STRAP	PR	3.32 LBS 1.50 Kg									
<b>5012-7092-2-HDG</b>	STRAP	HDG	3.05 LBS 1.38 Kg									



2902

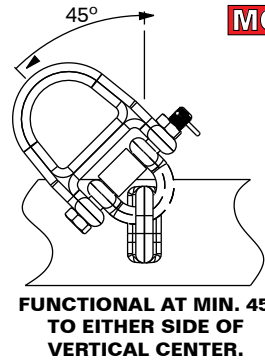
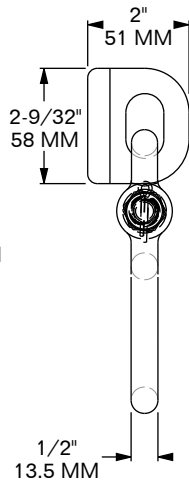
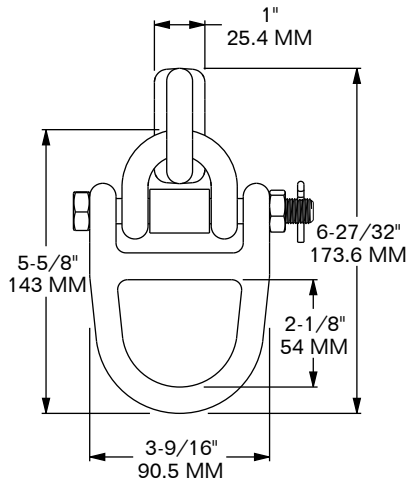
**D-RING MODEL 3701-1177**  
**STRAP MODEL 2902-1160-2**



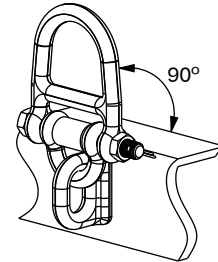
**SWL: 5,000 LBS / 2,268 Kg**  
**MBS: 15,000 LBS / 6,804 Kg**

**3701-1177 D-RING**  
**MATERIAL: FORGED STEEL FINISH: SELF-COLOR**  
**WEIGHT: 0.77 LBS / 0.35 Kg**

**2902-1160-2-SC or -HDG STRAP**  
**MATERIAL: FORGED STEEL FINISH: SELF-COLOR or HDG**  
**WEIGHT: 0.54 LBS / 0.24 Kg**



**FUNCTIONAL AT MIN. 45°  
TO EITHER SIDE OF  
VERTICAL CENTER.**

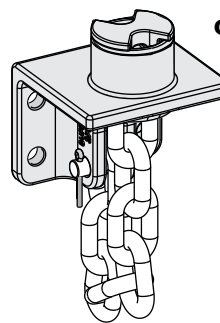
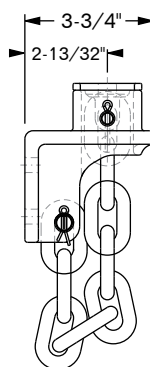
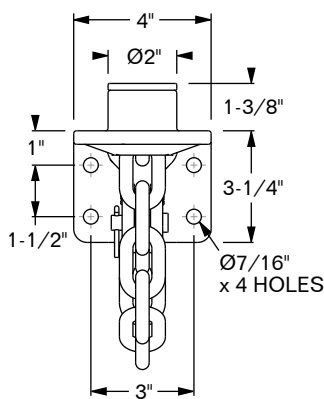


**FUNCTIONAL AT MIN. 90°  
FROM VERTICAL CENTER  
TOWARD CARGO AREA.**

**SWL: 5,000 LBS / 2,268 Kg**  
**MBS: 15,000 LBS / 6,804 Kg**

**WEIGHT: 2.04 LBS / 0.93 Kg**

**MODEL 3701-7577-KIT**  
**CHAIN TIE-DOWN ANCHOR**



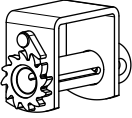
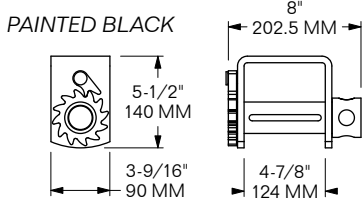

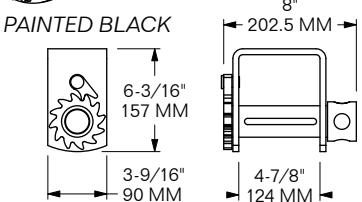
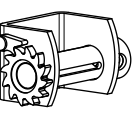
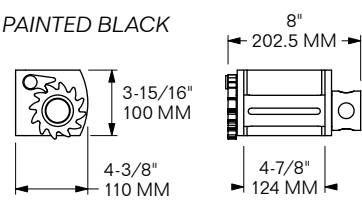
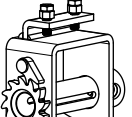
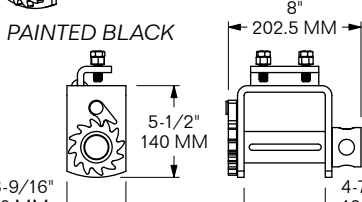
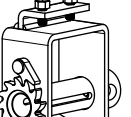
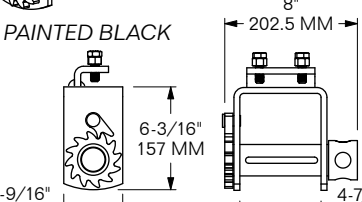
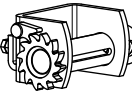
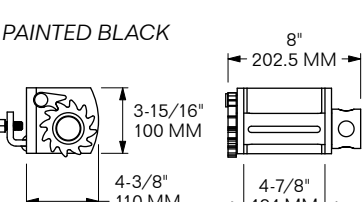
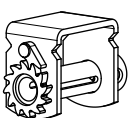
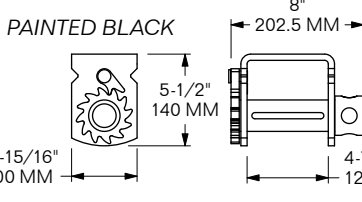

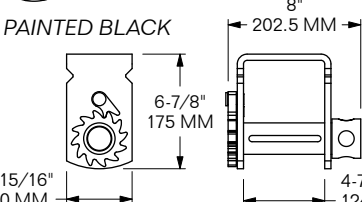
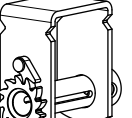
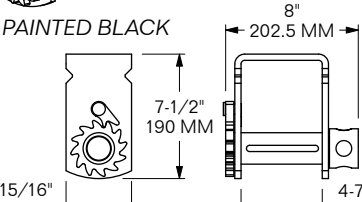
**MODEL 2902-2778**  
**CHAIN TIE-DOWN ANCHOR**

**STAINLESS STEEL COVER PLATE, ALLOY STEEL  
CLEVIS PINS (2 PCS), STAINLESS STEEL COTTER PINS (2 PCS),  
3/8" (10 MM) ALLOY STEEL GR 70 CHAIN**

**FINISH: HDG**  
**WEIGHT: 5.87 LBS / 2.66 Kg**

**WORKING LOAD LIMIT (WLL): 5,400 LBS / 2,449 Kg**



<p><b>MODEL 2903-2691</b></p> <p><b>WELD-ON</b> Standard</p>  <p>PAINTED BLACK</p>  <p>8" 202.5 MM 5-1/2" 140 MM 3-9/16" 90 MM 4-7/8" 124 MM</p>	<p><b>MODEL 2903-2692</b></p> <p><b>SPECIAL ORDER ONLY</b> <b>WELD-ON</b> Storage</p>  <p>PAINTED BLACK</p>  <p>8" 202.5 MM 6-3/16" 157 MM 3-9/16" 90 MM 4-7/8" 124 MM</p>	<p><b>MODEL 2903-2693</b></p> <p><b>WELD-ON</b> Side Mount</p>  <p>PAINTED BLACK</p>  <p>8" 202.5 MM 3-15/16" 100 MM 4-3/8" 110 MM 4-7/8" 124 MM</p>
<p><b>SUB FOR:</b> ANCRA 43563-10, KINEDYNE 1820, MULTIPRENS 1160 <b>WEIGHT:</b> 8.3 LBS / 3.8 Kg</p>	<p><b>SUB FOR:</b> ANCRA 43573-10, KINEDYNE 1820S <b>WEIGHT:</b> 8.9 LBS / 4 Kg</p>	<p><b>SUB FOR:</b> ANCRA 43579-20, KINEDYNE 7820, MULTIPRENS 1165 <b>WEIGHT:</b> 7.5 LBS / 3.4 Kg</p>
<p><b>MODEL 2903-2694</b></p> <p><b>BOLT-ON</b> Standard</p>  <p>PAINTED BLACK</p>  <p>8" 202.5 MM 5-1/2" 140 MM 3-9/16" 90 MM 4-7/8" 124 MM</p>	<p><b>MODEL 2903-2695</b></p> <p><b>BOLT-ON</b> Storage</p>  <p>PAINTED BLACK</p>  <p>8" 202.5 MM 6-3/16" 157 MM 3-9/16" 90 MM 4-7/8" 124 MM</p>	<p><b>MODEL 2903-2696</b></p> <p><b>BOLT-ON</b> Side Mount</p>  <p>PAINTED BLACK</p>  <p>8" 202.5 MM 3-15/16" 100 MM 4-3/8" 110 MM 4-7/8" 124 MM</p>
<p><b>SUB FOR:</b> ANCRA 43564-14, KINEDYNE 1820 P2, MULTIPRENS 1660 <b>WEIGHT:</b> 9 LBS / 4.1 Kg</p>	<p><b>SUB FOR:</b> ANCRA 43564-12 <b>WEIGHT:</b> 9.95 LBS / 4.51 Kg</p>	<p><b>SUB FOR:</b> ANCRA 43564-16, KINEDYNE 7820 P2, MULTIPRENS 1665 <b>WEIGHT:</b> 9.3 LBS / 4.2 Kg</p>
<p><b>MODEL 2903-2697</b></p> <p><b>SLIDER</b> Standard</p>  <p>PAINTED BLACK</p>  <p>8" 202.5 MM 5-1/2" 140 MM 3-15/16" 100 MM 4-7/8" 124 MM</p>	<p><b>MODEL 2903-2698</b></p> <p><b>SLIDER</b> Storage</p>  <p>PAINTED BLACK</p>  <p>8" 202.5 MM 6-7/8" 175 MM 3-15/16" 100 MM 4-7/8" 124 MM</p>	<p><b>MODEL 2903-2699</b></p> <p><b>SLIDER</b> Deep Storage</p>  <p>PAINTED BLACK</p>  <p>8" 202.5 MM 7-1/2" 190 MM 3-15/16" 100 MM 4-7/8" 124 MM</p>
<p><b>SUB FOR:</b> ANCRA 43565-15, KINEDYNE 3820, MULTIPRENS 1760 <b>WEIGHT:</b> 8.2 LBS / 3.7 Kg</p>	<p><b>WEIGHT:</b> 11 LBS / 5 Kg</p>	<p><b>SUB FOR:</b> ANCRA 43565-12, KINEDYNE 5820, MULTIPRENS 1765 <b>WEIGHT:</b> 10.6 LBS / 4.8 Kg</p>

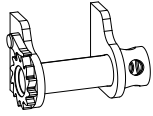
**NOTE:** FOR LOAD SECURING ONLY, **NOT FOR LIFTING.**  
ALL WINCH AND STRAP ASSEMBLIES SHOULD BE INSPECTED FOR FRAYS, CUTS, OR DAMAGED HARDWARE BEFORE AND AFTER USING.

**WORKING LOAD LIMIT (WLL):** 5,000 LBS / 2,267 Kg  
**BREAK STRENGTH (BS):** 15,000 LBS / 6,800 Kg  
DESIGNED TO MEET OR EXCEED WSTDA T-3 STANDARD.

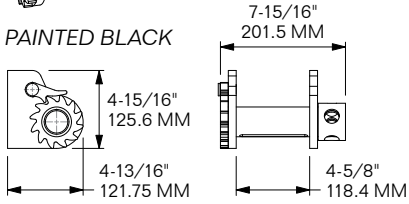
2903

**MODEL 2903-2798**

**WEB WINCH, LEG BRACKET**  
for 4" webbing, Side Mount,  
Weld-on



PAINTED BLACK

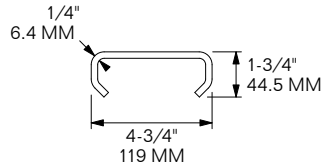
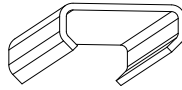


**FITS:** ISO FLATRACKS **SUB FOR:**  
ANCRA 41691-12, KINEDYNE 12004  
**WEIGHT:** 8.1 LBS / 3.67 Kg

**RAIL FOR SLIDING WINCHES**

**MODEL 2903-2471**

**LENGTH:** 19-1/2" / 495.3 MM  
**WEIGHT:** 11.4 LBS / 5.2 Kg

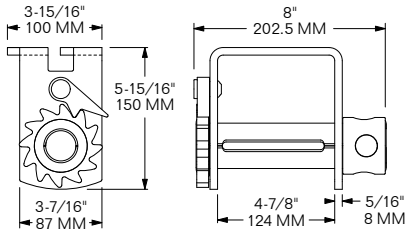
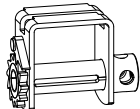


**MATERIAL:** FAB. STEEL **FINISH:** SELF-COLOR

**MODEL 2903-8665**

**WEB WINCH, SLIDER**  
w/ Double-L Track Cutout  
for 4" webbing, Weld-on

PAINTED BLACK



**FITS:** MANAC  
**SUB FOR:** KINEDYNE 1020  
**WEIGHT:** 8.7 LBS / 3.95 Kg

**NOTE:** FOR LOAD SECURING ONLY, **NOT FOR LIFTING.**  
ALL WINCH AND STRAP ASSEMBLIES SHOULD BE  
INSPECTED FOR FRAYS, CUTS, OR DAMAGED  
HARDWARE BEFORE AND AFTER USING.

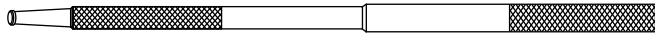
**WORKING LOAD LIMIT (WLL):** 5,000 LBS / 2,267 Kg  
**BREAK STRENGTH (BS):** 15,000 LBS / 6,800 Kg  
DESIGNED TO MEET OR EXCEED WSTDA T-3 STANDARD.

**MODEL 2903-6345-B**

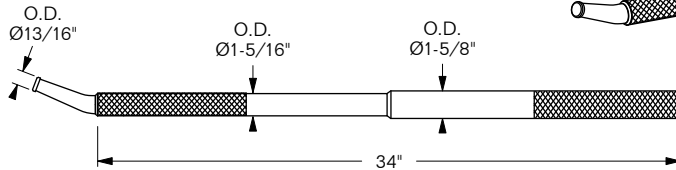
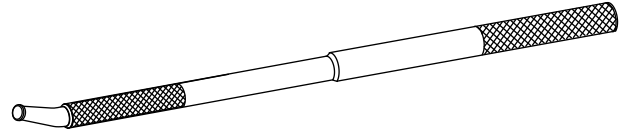
**MODEL 2903-6345-C**

**COMBINATION**

HIGH-STRENGTH TIP



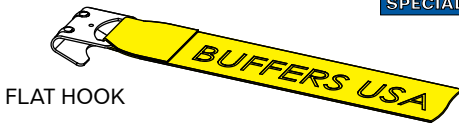
KNURLED HANDLE GRIPS



AVAILABLE BLACK-PAINTED or CHROME-PLATED

**SUB FOR:** ANCRA 42313-19 CH,  
42313-20 BL; KINEDYNE 37033 CH  
**MATERIAL:** STEEL  
**FINISH:** BLACK (B) or CHROME (C)  
**WEIGHT:** 7.45 LBS / 3.38 Kg

**2903**



FLAT HOOK

**STANDARD**

**WORKING LOAD LIMIT (WLL):** 5,000 LBS / 2,267 Kg  
**BREAK STRENGTH (BS):** 15,000 LBS / 6,804 Kg

**HEAVY DUTY (-HD)**

**WORKING LOAD LIMIT (WLL):** 5,400 LBS / 2,450 Kg  
**BREAK STRENGTH (BS):** 16,200 LBS / 7,350 Kg

SPECIAL ORDER ONLY

**4" x 27' w/ FLAT HOOK MODEL 2904-2805**

SUB FOR: ANCRA 43795-10-27P, KINEDYNE 422721, MULTIPRENS 2042-27

**4" x 27' w/ FLAT HOOK MODEL 2904-2805-HD**

**4" x 30' w/ FLAT HOOK MODEL 2904-2806**

**4" x 30' w/ FLAT HOOK MODEL 2904-2806-HD**

SUB FOR: ANCRA 43795-10-30P, KINEDYNE 423021, MULTIPRENS 2042-30

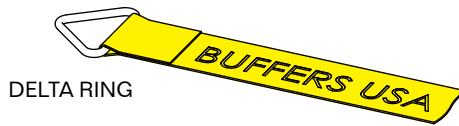
**4" x 34' w/ FLAT HOOK MODEL 2904-6043**

**4" x 40' w/ FLAT HOOK MODEL 2904-6004-HD**

SPECIAL ORDER ONLY 6005-HD & 6007

**4" x 50' w/ FLAT HOOK MODEL 2904-6005-HD**

**4" x 73' w/ FLAT HOOK MODEL 2904-6007**



DELTA RING

**WORKING LOAD LIMIT (WLL):** 5,400 LBS / 2,450 Kg  
**BREAK STRENGTH (BS):** 16,200 LBS / 7,350 Kg

SPECIAL ORDER ONLY

**4" x 27' w/ DELTA RING MODEL 2904-2807**

SUB FOR: ANCRA 43795-11-27P, KINEDYNE 422710, MULTIPRENS 2041-27

**4" x 30' w/ DELTA RING MODEL 2904-2808**

SUB FOR: ANCRA 43795-11-30P, KINEDYNE 423010, MULTIPRENS 2041-30

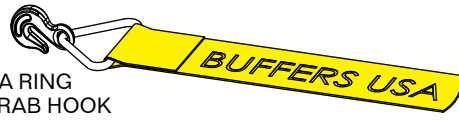
**4" x 34' w/ DELTA RING MODEL 2904-2849**

SPECIAL ORDER ONLY

**4" x 40' w/ DELTA RING (white strap) MODEL 2904-6425**

SPECIAL ORDER ONLY

**4" x 73' w/ DELTA RING (white strap) MODEL 2904-6426**



DELTA RING w/ GRAB HOOK

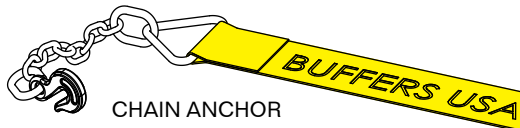
**WORKING LOAD LIMIT (WLL):** 5,400 LBS / 2,450 Kg  
**BREAK STRENGTH (BS):** 16,200 LBS / 7,350 Kg

**4" x 27' w/ GRAB HOOK MODEL 2904-2809**

SUB FOR: ANCRA 43795-14-27P, KINEDYNE 422750, MULTIPRENS 2044-27

**4" x 30' w/ GRAB HOOK MODEL 2904-2810**

SUB FOR: ANCRA 43795-14-30P, KINEDYNE 423050, MULTIPRENS 2044-30



CHAIN ANCHOR

**WORKING LOAD LIMIT (WLL):** 5,400 LBS / 2,450 Kg  
**BREAK STRENGTH (BS):** 16,200 LBS / 7,350 Kg

**4" x 27' w/ CHAIN ANCHOR MODEL 2904-2811**

SUB FOR: ANCRA 43795-15-27P, KINEDYNE 422740, MULTIPRENS 2043-27

**4" x 30' w/ CHAIN ANCHOR MODEL 2904-2812**

SUB FOR: ANCRA 43795-15-30P, KINEDYNE 423040, MULTIPRENS 2043-30



HALF-TWISTED SEWN LOOP

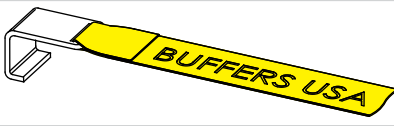
**WORKING LOAD LIMIT (WLL):** 5,000 LBS / 2,267 Kg  
**BREAK STRENGTH (BS):** 16,200 LBS / 7,350 Kg

**4" x 27' w/ SEWN LOOP MODEL 2904-2813**

SUB FOR: ANCRA 43795-13-27, KINEDYNE 422730, MULTIPRENS 2040-27

**4" x 30' w/ SEWN LOOP MODEL 2904-2814**

SUB FOR: ANCRA 43795-13-30, KINEDYNE 423030, MULTIPRENS 2040-30



4" x 5' w/ FLAT CONTAINER HOOK FOR ROLL-OFF REFUSE CONTAINERS

**WORKING LOAD LIMIT (WLL):** 5,400 LBS / 2,450 Kg  
**BREAK STRENGTH (BS):** 16,200 LBS / 7,350 Kg

**MODEL 2904-6079**

SUB FOR: ANCRA 49526-10, KINEDYNE 15435

**NOTE:** FOR LOAD SECURING ONLY, NOT FOR LIFTING. ALL WINCH AND STRAP ASSEMBLIES SHOULD BE INSPECTED FOR FRAYS, CUTS, OR DAMAGED HARDWARE BEFORE AND AFTER USING. DESIGNED TO MEET OR EXCEED WSTDA T-1 STANDARD.

**MODEL 2904-6094**  
for up to 4"-wide Webbing

**MATERIAL:** PLASTIC **COLOR:** WHITE  
**WEIGHT:** 0.16 LBS / 0.072 Kg

**MODEL 2904-6095**  
**HD DESIGN** for up to 4"-wide Webbing

**MATERIAL:** PLASTIC **COLOR:** ORANGE  
**WEIGHT:** 0.23 LBS / 0.105 Kg

**MODEL 2904-6096**  
for 2"–4"-wide Webbing

**MATERIAL:** STEEL **FINISH:** ZINC-PLATED  
**WEIGHT:** 1.2 LBS / 0.54 Kg

**MODEL 2904-6098**  
**COMBINED PROTECTION**  
for use w/ Chain

**MATERIAL:** STEEL **FINISH:** ZINC-PLATED  
**WEIGHT:** 1.1 LBS / 0.5 Kg

**MODEL 2904-6099**  
**WEBBING PROTECTION ONLY**  
for 1"–4"-wide Webbing

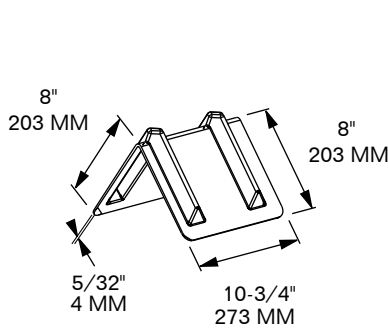
**MATERIAL:** BLACK RUBBER **FINISH:** SELF-COLOR  
**WEIGHT:** 0.68 LBS / 0.31 Kg



2904

**MODEL 2904-7175-11**

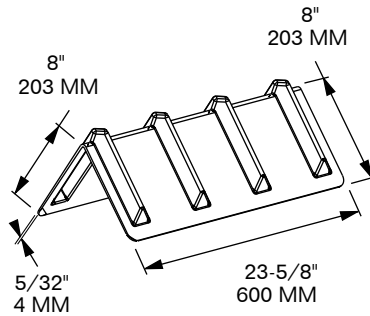
STANDARD DUTY



**COLOR:** BLUE  
**WEIGHT:** 1.00 LBS / 0.45 Kg  
**MATERIAL:** HDPE

**MODEL 2904-7175-24**

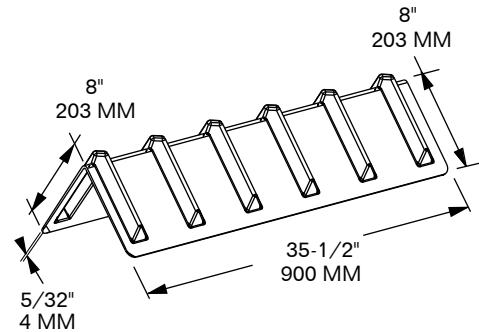
STANDARD DUTY



**COLOR:** BLUE  
**WEIGHT:** 2.12 LBS / 0.96 Kg  
**MATERIAL:** HDPE

**MODEL 2904-7175-36**

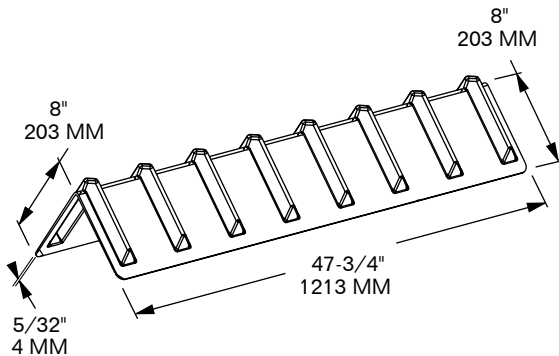
STANDARD DUTY



**COLOR:** BLUE  
**WEIGHT:** 3.38 LBS / 1.53 Kg  
**MATERIAL:** HDPE

**MODEL 2904-7175-48**

STANDARD DUTY

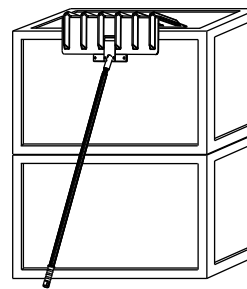


**COLOR:** BLUE  
**WEIGHT:** 4.97 LBS / 2.25 Kg  
**MATERIAL:** HDPE

**MODEL 2904-6802**  
**CORNER PROTECTOR PLACEMENT TOOL**

**MODEL 2904-6803**  
**GRABBER HEAD**

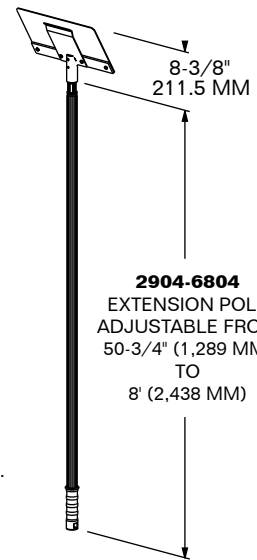
**MODEL 2904-6804**  
**EXTENSION POLE**



SHOWN PLACING  
 CORNER PROTECTOR

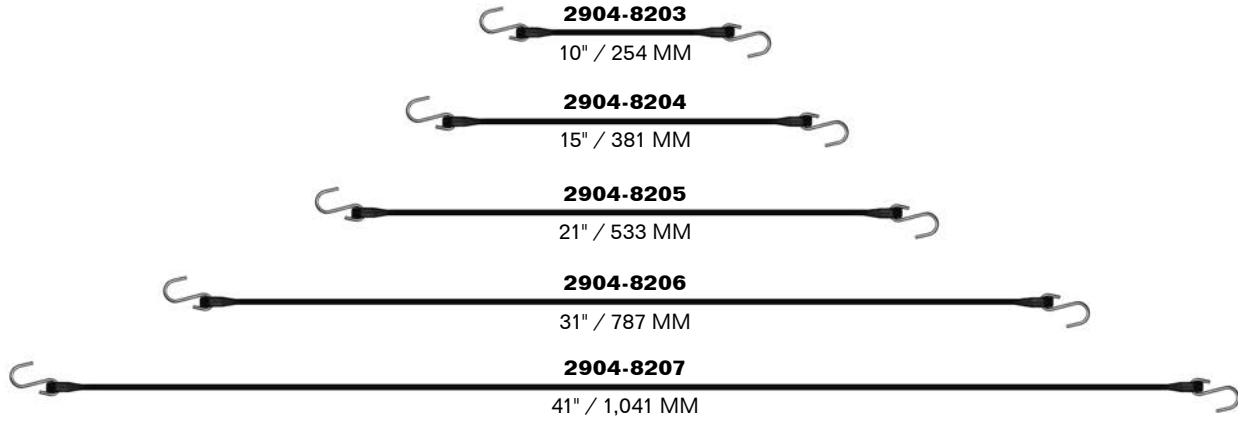
**2904-6802**  
 PLACEMENT TOOL CONSISTS OF  
**2904-6803** GRABBER HEAD  
 AND **2904-6804** EXTENSION POLE.

**2904-6803** AND **2904-6804**  
 ARE ALSO SOLD SEPARATELY.

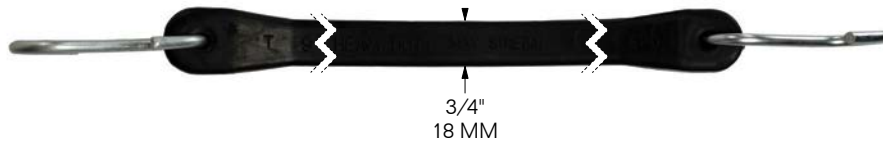


**2904-6804**  
 EXTENSION POLE  
 ADJUSTABLE FROM  
 50-3/4" (1,289 MM)  
 TO  
 8' (2,438 MM)





	MODEL	NOMINAL LENGTH	INSTALLED MAX. LENGTH	WEIGHT
<b>SPECIAL ORDER ONLY</b>	<b>2904-8203</b>	10" / 254 MM	15" / 381 MM	0.04 LBS / 0.02 Kg
	<b>2904-8204</b>	15" / 381 MM	23" / 584 MM	0.22 LBS / 0.1 Kg
	<b>2904-8205</b>	21" / 533 MM	32" / 813 MM	0.25 LBS / 0.11 Kg
<b>SPECIAL ORDER ONLY</b>	<b>2904-8206</b>	31" / 787 MM	36" / 914 MM	0.3 LBS / 0.14 Kg
<b>SPECIAL ORDER ONLY</b>	<b>2904-8207</b>	41" / 1,041 MM	62" / 1,575 MM	0.4 LBS / 0.18 Kg



- Reinforced Ends for added strength
- Zinc-plated Hooks
- Not designed for Load Securing

**MATERIAL:** EPDM SYNTHETIC RUBBER **FINISH:** BLACK  
**PACKAGING:** 50 PCS./BAG & 2 BAGS/CARTON

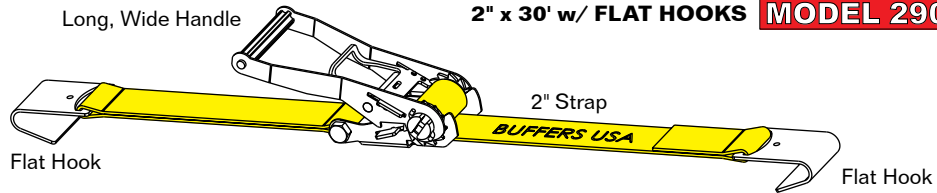


# 2" RATCHET STRAP ASSEMBLIES w/ FLAT HOOKS, WIRE HOOKS & CHAIN ANCHORS

2905

2" x 27' w/ FLAT HOOKS **MODEL 2905-6056**

2" x 30' w/ FLAT HOOKS **MODEL 2905-6057**



**SUB 2905-6056 FOR:** ANCRA 45982-10, KINEDYNE 512720, MULTIPRENS 5822-27  
**SUB 2905-6057 FOR:** ANCRA 45982-11, KINEDYNE 513020, MULTIPRENS 5822-30

**STRAP COLOR: YELLOW**

2" x 12' w/ WIRE HOOKS **MODEL 2905-6002**

2" x 12' w/ WIRE HOOKS & SPRING LATCH **MODEL 2905-6002-SL**

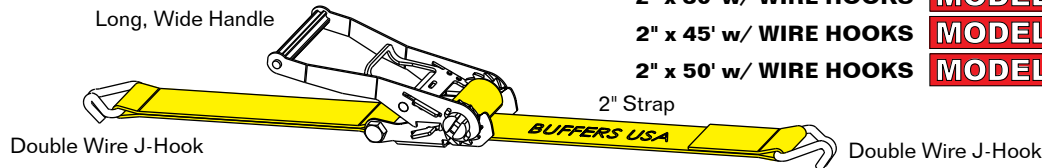
2" x 15' w/ WIRE HOOKS **MODEL 2905-6003**

2" x 27' w/ WIRE HOOKS **MODEL 2905-6058**

2" x 30' w/ WIRE HOOKS **MODEL 2905-6059**

2" x 45' w/ WIRE HOOKS **MODEL 2905-6260-45**

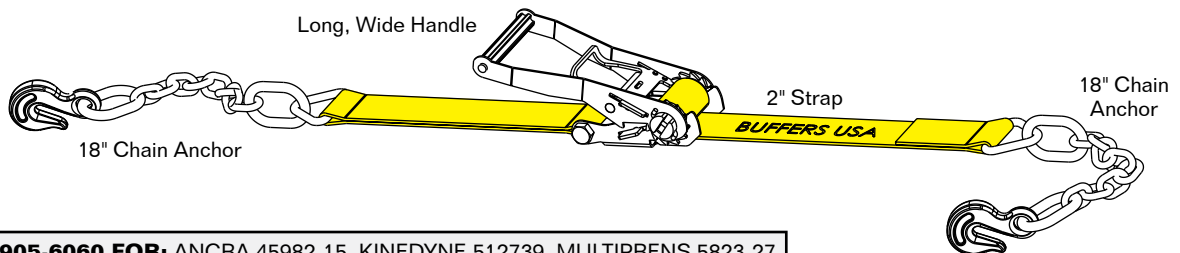
2" x 50' w/ WIRE HOOKS **MODEL 2905-6260**



**SUB 2905-6058 FOR:** ANCRA 45982-45, KINEDYNE 512784, MULTIPRENS 5826-27  
**SUB 2905-6059 FOR:** ANCRA 45982-43, KINEDYNE 513084, MULTIPRENS 5826-30

2" x 27' w/ CHAIN ANCHORS **SPECIAL ORDER ONLY** **MODEL 2905-6060**

2" x 30' w/ CHAIN ANCHORS **MODEL 2905-6061**



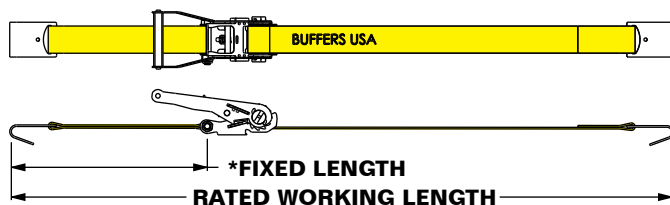
**SUB 2905-6060 FOR:** ANCRA 45982-15, KINEDYNE 512739, MULTIPRENS 5823-27  
**SUB 2905-6061 FOR:** ANCRA 45982-34, KINEDYNE 513039, MULTIPRENS 5823-30

**STRAP COLOR: YELLOW**

**WORKING LOAD LIMIT (WLL):** 3,333 LBS / 1,511 Kg  
**BREAK STRENGTH (BS):** 10,000 LBS / 4,535 Kg

**NOTE:**  
FOR LOAD SECURING ONLY, NOT FOR LIFTING.  
ALL RATCHET STRAP ASSEMBLIES SHOULD BE  
INSPECTED FOR FRAYS, CUTS, OR DAMAGED  
HARDWARE BEFORE AND AFTER USING.

DESIGNED TO MEET OR EXCEED WSTDA T-4 STANDARD.  
COMPLIES WITH DOT AND CA HIGHWAY PATROL TITLE 13.



\*FIXED LENGTH 18" EXCEPT  
w/ CHAIN ANCHOR 33"

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2905-1

10/25/19

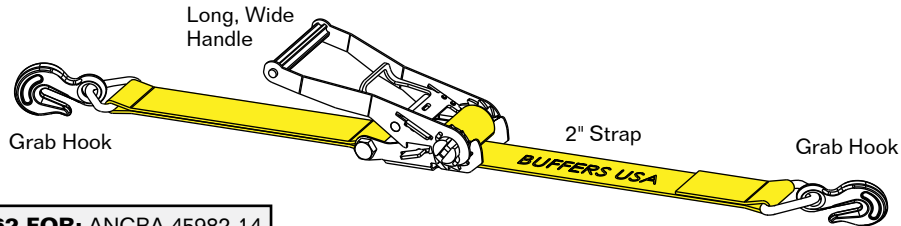


# 2" RATCHET STRAP ASSEMBLIES w/ GRAB HOOKS, DELTA RINGS & SNAP HOOKS

2905

2" x 27' w/ GRAB HOOKS **MODEL 2905-6062**

**SPECIAL ORDER ONLY** 2" x 30' w/ GRAB HOOKS **MODEL 2905-6063**

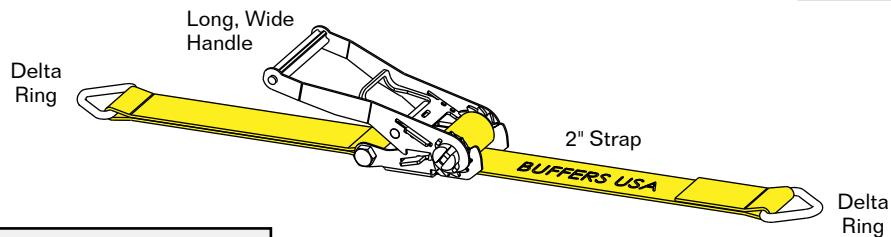


**SUB 2905-6062 FOR:** ANCRA 45982-14  
**SUB 2905-6063 FOR:** ANCRA 45982-34

**STRAP COLOR:** YELLOW

**SPECIAL ORDER ONLY** 2" x 27' w/ DELTA RINGS **MODEL 2905-6064**

2" x 30' w/ DELTA RINGS **MODEL 2905-6065**

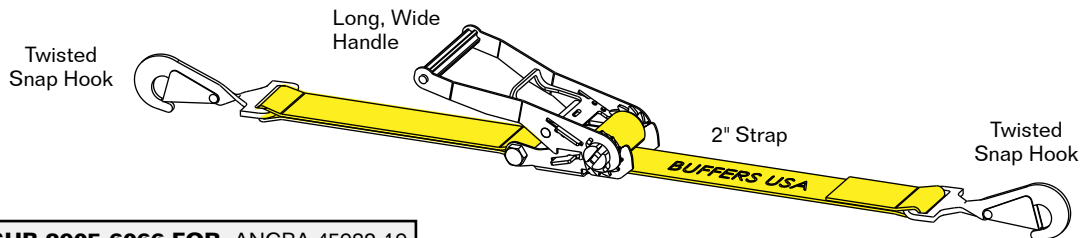


**SUB 2905-6064 FOR:** ANCRA 45982-16  
**SUB 2905-6065 FOR:** ANCRA 45982-35

**STRAP COLOR:** YELLOW

**SPECIAL ORDER ONLY** 2" x 27' w/ SNAP HOOKS **MODEL 2905-6066**

2" x 30' w/ SNAP HOOKS **MODEL 2905-6067**



**SUB 2905-6066 FOR:** ANCRA 45982-19  
**SUB 2905-6067 FOR:** ANCRA 45982-36

**STRAP COLOR:** YELLOW

**WORKING LOAD LIMIT (WLL):** 3,333 LBS / 1,511 Kg  
**BREAK STRENGTH (BS):** 10,000 LBS / 4,535 Kg

**NOTE:**  
FOR LOAD SECURING ONLY, NOT FOR LIFTING.  
ALL RATCHET STRAP ASSEMBLIES SHOULD BE  
INSPECTED FOR FRAYS, CUTS, OR DAMAGED  
HARDWARE BEFORE AND AFTER USING.

DESIGNED TO MEET OR EXCEED WSTDA T-4 STANDARD.  
COMPLIES WITH DOT AND CA HIGHWAY PATROL TITLE 13.



\*FIXED LENGTH 18" EXCEPT  
w/ CHAIN ANCHOR 33"



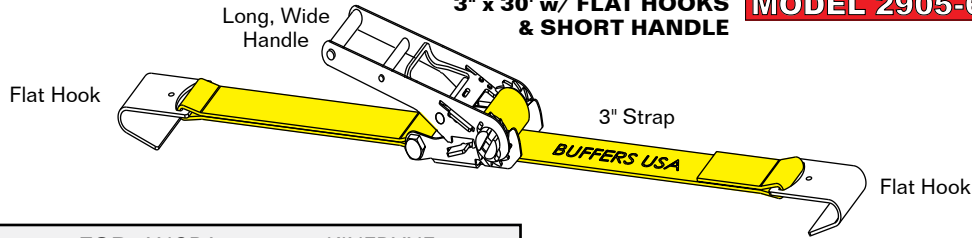
# 3" RATCHET STRAP ASSEMBLIES w/ FLAT HOOKS & CHAIN ANCHORS

2905

**SPECIAL ORDER ONLY** 3" x 27' w/ FLAT HOOKS **MODEL 2905-6068**

3" x 30' w/ FLAT HOOKS **MODEL 2905-6069**

3" x 30' w/ FLAT HOOKS & SHORT HANDLE **MODEL 2905-6069-SHR**

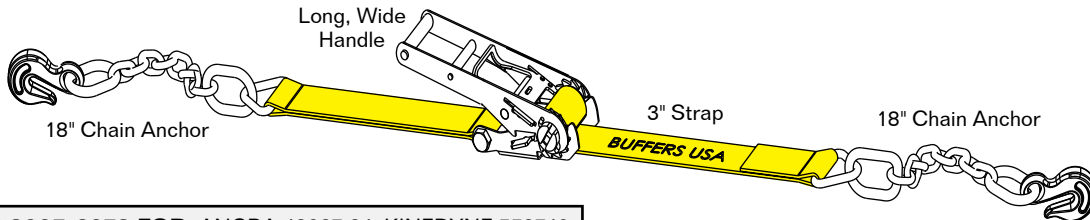


**SUB 2905-6068 FOR:** ANCRA 48987-20, KINEDYNE 552721  
**SUB 2905-6069 FOR:** ANCRA 48987-21, KINEDYNE 553021

**STRAP COLOR:** YELLOW

**SPECIAL ORDER ONLY** 3" x 27' w/ CHAIN ANCHORS **MODEL 2905-6072**

**SPECIAL ORDER ONLY** 3" x 30' w/ CHAIN ANCHORS **MODEL 2905-6073**



**SUB 2905-6072 FOR:** ANCRA 48987-24, KINEDYNE 552740  
**SUB 2905-6073 FOR:** ANCRA 48987-25, KINEDYNE 553040

**STRAP COLOR:** YELLOW

**WORKING LOAD LIMIT (WLL):** 4,333 LBS / 1,965 Kg  
**BREAK STRENGTH (BS):** 13,000 LBS / 5,896 Kg

**NOTE:**

FOR LOAD SECURING ONLY, NOT FOR LIFTING. ALL RATCHET STRAP ASSEMBLIES SHOULD BE INSPECTED FOR FRAYS, CUTS, OR DAMAGED HARDWARE BEFORE AND AFTER USING.

DESIGNED TO MEET OR EXCEED WSTDA T-4 STANDARD. COMPLIES WITH DOT AND CA HIGHWAY PATROL TITLE 13.



\*FIXED LENGTH 18" EXCEPT w/ CHAIN ANCHOR 33"

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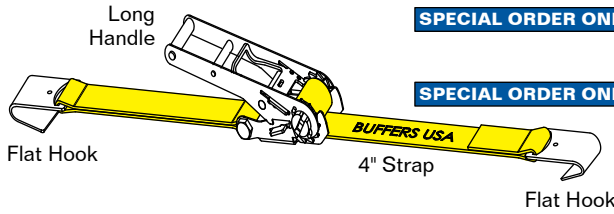
2/15/24



# 4" RATCHET STRAP ASSEMBLIES

w/ FLAT HOOKS, WIRE HOOKS, CHAIN ANCHORS  
GRAB HOOKS & DELTA RINGS

2905

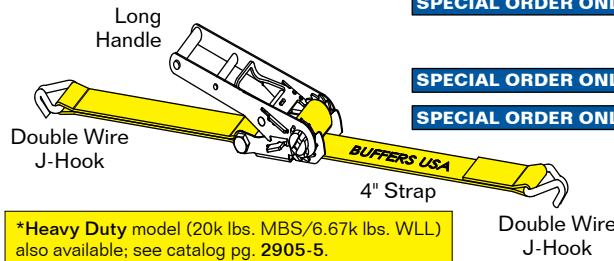


**SPECIAL ORDER ONLY** 4" x 27' w/ FLAT HOOKS **MODEL 2905-6080**

4" x 30' w/ FLAT HOOKS **MODEL 2905-6081**

**SPECIAL ORDER ONLY** 4" x 40' w/ FLAT HOOKS **MODEL 2905-6081-40**

**SUB 2905-6080 FOR:** ANCRA 49346-10, KINEDYNE 592721  
**SUB 2905-6081 FOR:** ANCRA 49346-11, KINEDYNE 593021



**SPECIAL ORDER ONLY** 4" x 20' w/ WIRE HOOKS **MODEL 2905-6082-20**

**SPECIAL ORDER ONLY** 4" x 25' w/ WIRE HOOKS **MODEL 2905-6082-25**

**SPECIAL ORDER ONLY** 4" x 27' w/ WIRE HOOKS **MODEL 2905-6082**

4" x 30' w/ WIRE HOOKS **MODEL 2905-6083\***

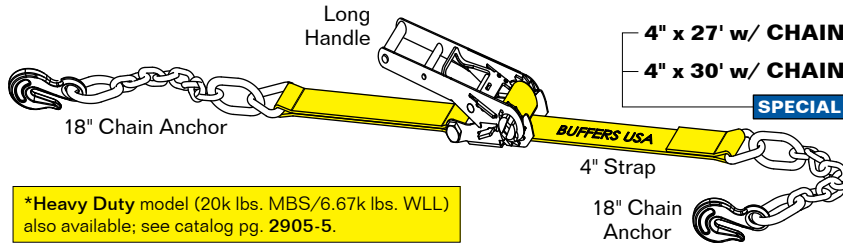
**SPECIAL ORDER ONLY** 4" x 40' w/ WIRE HOOKS **MODEL 2905-6082-40**

**SPECIAL ORDER ONLY** 4" x 50' w/ WIRE HOOKS **MODEL 2905-6082-50**

4" x 65' w/ WIRE HOOKS **MODEL 2905-6082-65**

**\*Heavy Duty model (20k lbs. MBS/6.67k lbs. WLL)**  
also available; see catalog pg. 2905-5.

**SUB 2905-6082 FOR:** ANCRA 49346-12, KINEDYNE 592736  
**SUB 2905-6083 FOR:** ANCRA 49346-13, KINEDYNE 593036



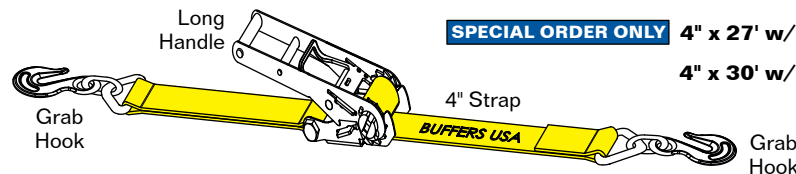
4" x 27' w/ CHAIN ANCHORS **MODEL 2905-6084**

4" x 30' w/ CHAIN ANCHORS **MODEL 2905-6085\***

**SPECIAL ORDER ONLY**

**\*Heavy Duty model (20k lbs. MBS/6.67k lbs. WLL)**  
also available; see catalog pg. 2905-5.

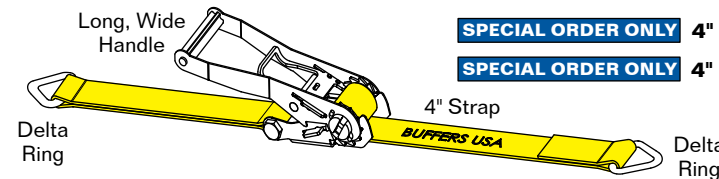
**SUB 2905-6084 FOR:** ANCRA 49346-14  
**SUB 2905-6085 FOR:** ANCRA 49346-15



**SPECIAL ORDER ONLY** 4" x 27' w/ GRAB HOOKS **MODEL 2905-6086**

4" x 30' w/ GRAB HOOKS **MODEL 2905-6087**

**SUB 2905-6086 FOR:** ANCRA 49346-16  
**SUB 2905-6087 FOR:** ANCRA 49346-17



**SPECIAL ORDER ONLY** 4" x 27' w/ DELTA RINGS **MODEL 2905-6088**

**SPECIAL ORDER ONLY** 4" x 30' w/ DELTA RINGS **MODEL 2905-6089**

**SUB 2905-6088 FOR:** ANCRA 49246-16  
**SUB 2905-6089 FOR:** ANCRA 49246-17

**WORKING LOAD LIMIT (WLL):** 5,400 LBS / 2,449 Kg  
**BREAK STRENGTH (BS):** 16,200 LBS / 7,348 Kg  
**STRAP COLOR:** YELLOW

**NOTE:** For load securing only; NOT for lifting.  
All ratchet strap assemblies should be inspected for frays, cuts or damaged hardware before AND after using.

Designed to meet or exceed WSTDA T-4 Standard.  
Complies with DOT and CA Highway Patrol Title 13.



\*Fixed Length ~18" except w/ Grab Hook ~23", and w/ Chain Anchor ~33"

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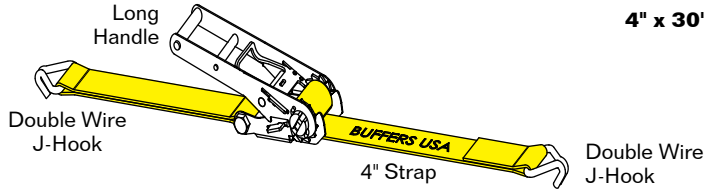
2/14/24



# 4" RATCHET STRAP ASSEMBLIES

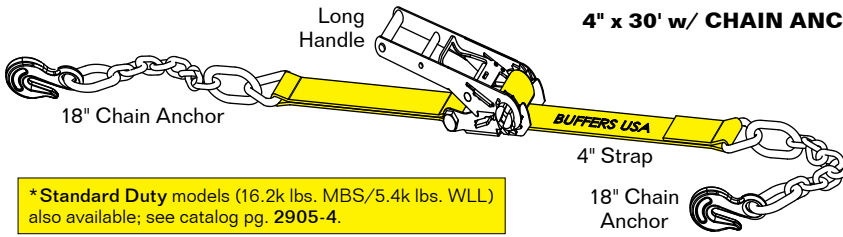
HEAVY DUTY w/ WIRE HOOKS & CHAIN ANCHORS

2905



**4" x 30' w/ WIRE HOOKS MODEL 2905-6083-HD\***  
**HEAVY DUTY**

\*Standard Duty models (16.2k lbs. MBS/5.4k lbs. WLL) also available; see catalog pg. 2905-4.



**4" x 30' w/ CHAIN ANCHORS MODEL 2905-6085-HD\***  
**HEAVY DUTY**

**SPECIAL ORDER ONLY**

\*Standard Duty models (16.2k lbs. MBS/5.4k lbs. WLL) also available; see catalog pg. 2905-4.

**WORKING LOAD LIMIT (WLL):** 6,666 LBS / 3,030 Kg  
**BREAK STRENGTH (BS):** 20,000 LBS / 9,090 Kg  
**STRAP COLOR:** YELLOW

**NOTE:** For load securing only; NOT for lifting.  
All ratchet strap assemblies should be inspected for frays, cuts or damaged hardware before AND after using.

Designed to meet or exceed WSTDA T-4 Standard.  
Complies with DOT and CA Highway Patrol Title 13.



\*Fixed Length ~18" except w/ Chain Anchor ~33"

# UTILITY STRAP ASSEMBLIES

## RATCHET STRAPS w/ WIRE HOOKS & S-HOOKS

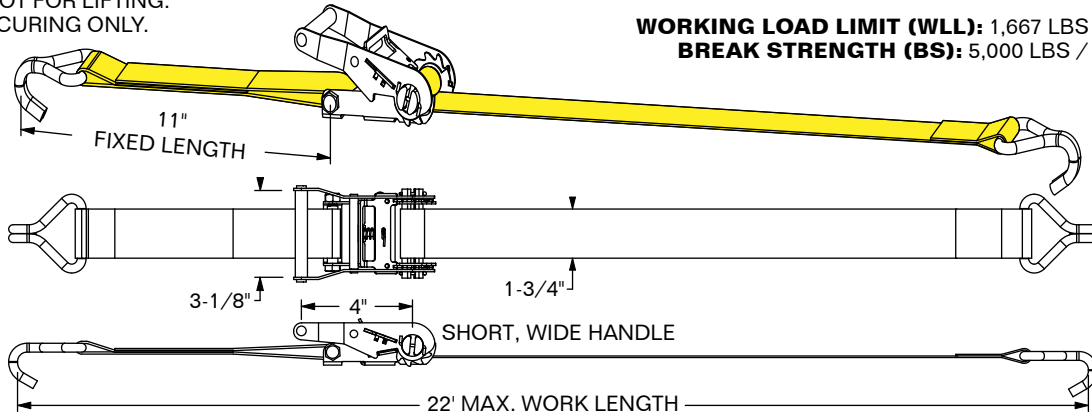
2905

### RATCHET STRAP ASSEMBLY

**NOTE:** NOT FOR LIFTING.  
LOAD SECURING ONLY.

1-3/4" x 22' w/ WIRE HOOKS **MODEL 2905-1900**

**WORKING LOAD LIMIT (WLL):** 1,667 LBS / 756 Kg  
**BREAK STRENGTH (BS):** 5,000 LBS / 2,268 Kg



**WEIGHT:** 2.6 LBS / 1.2 Kg **STRAP COLOR:** YELLOW

### RATCHET STRAP ASSEMBLY

**NOTE:** NOT FOR LIFTING. LOAD SECURING ONLY.

1" x 7' w/ S-HOOKS **MODEL 2905-6010**

1" x 16' w/ S-HOOKS **MODEL 2905-6011**

**WORKING LOAD LIMIT (WLL):** 400 LBS / 181 Kg  
**BREAK STRENGTH (BS):** 1,200 LBS / 544 Kg

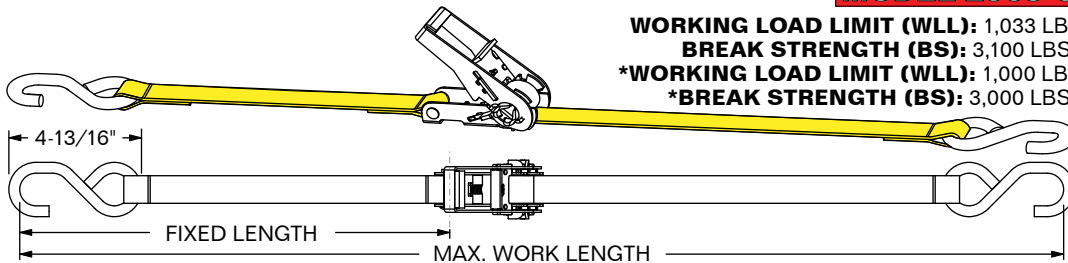
1" x 7' w/ S-HOOKS **MODEL 2909-6014**

1" x 10' w/ S-HOOKS **MODEL 2905-6016-10**

\*1" x 15' w/ S-HOOKS **MODEL 2905-6016-15**

1" x 20' w/ S-HOOKS **MODEL 2905-6016-20**

**WORKING LOAD LIMIT (WLL):** 1,033 LBS / 467 Kg  
**BREAK STRENGTH (BS):** 3,100 LBS / 1,406 Kg  
**\*WORKING LOAD LIMIT (WLL):** 1,000 LBS / 454 Kg  
**\*BREAK STRENGTH (BS):** 3,000 LBS / 1,360 Kg



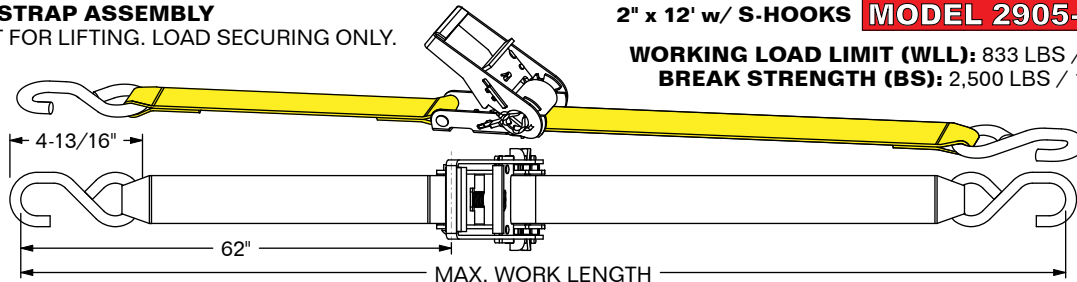
**MODEL 2905-6010 WEIGHT:** 1.3 LBS / 0.58 Kg **FIXED LENGTH:** 12" **STRAP COLOR:** YELLOW  
**MODEL 2905-6011 WEIGHT:** 1.4 LBS / 0.64 Kg **FIXED LENGTH:** 18" **STRAP COLOR:** BLUE  
**MODEL 2909-6014 WEIGHT:** 1.8 LBS / 0.81 Kg **FIXED LENGTH:** 15" **STRAP COLOR:** ORANGE  
**MODEL 2905-6016-10 WEIGHT:** 1.9 LBS / 0.86 Kg **FIXED LENGTH:** 11" **STRAP COLOR:** YELLOW  
**MODEL 2905-6016-15 WEIGHT:** 2 LBS / 0.91 Kg **FIXED LENGTH:** 16" **STRAP COLOR:** YELLOW  
**MODEL 2905-6016-20 WEIGHT:** 2.1 LBS / 0.95 Kg **FIXED LENGTH:** 21" **STRAP COLOR:** YELLOW

### RATCHET STRAP ASSEMBLY

**NOTE:** NOT FOR LIFTING. LOAD SECURING ONLY.

2" x 12' w/ S-HOOKS **MODEL 2905-7642**

**WORKING LOAD LIMIT (WLL):** 833 LBS / 378 Kg  
**BREAK STRENGTH (BS):** 2,500 LBS / 1,134 Kg



**WEIGHT:** 2.5 LBS / 1.13 Kg **FIXED LENGTH:** 62" **STRAP COLOR:** YELLOW

**2905**

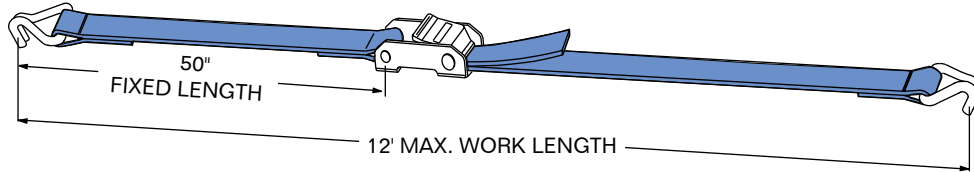
**SPECIAL ORDER ONLY**

**MODEL 2905-6013**

**CAM BUCKLE STRAP**

1" x 14' w/ Wire Hooks & Web Buckle

**WORKING LOAD LIMIT (WLL):** 400 LBS / 185 Kg  
**BREAK STRENGTH (BS):** 1,200 LBS / 544 Kg



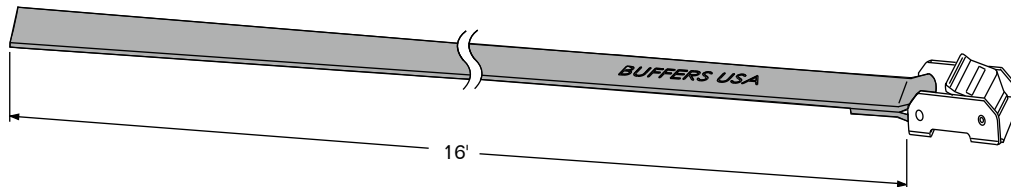
**SUB FOR:** KINEDYNE 751281 **STRAP COLOR:** BLUE **WEIGHT:** 1.4 LBS / 0.64 Kg

**MODEL 2905-6042**

**CAM BUCKLE**

2" x 16' w/ Endless Strap

**WORKING LOAD LIMIT (WLL):** 833 LBS / 378 Kg  
**BREAK STRENGTH (BS):** 2,500 LBS / 1,134 Kg



**STRAP COLOR:** GRAY **WEIGHT:** 1.39 LBS / 0.63 Kg



**WEBBING ONLY**  
2" wide, 10k lbs. BS



**MODEL 2905-6092**

2" x 15' Webbing **SPECIAL ORDER**

**MODEL 2905-6093**

2" x 18' Webbing

**MODEL 2905-6047**

2" x 300' Webbing  
Continuous roll - no splicing

**WEBBING ONLY**  
3" wide, 15k lbs. BS



**MODEL 2905-6048**

3" x 100' Webbing  
max. 1 splice / roll

**WEBBING ONLY**  
4" wide, 20k lbs. BS



**MODEL 2905-6078-12**

4" x 12' Webbing **SPECIAL ORDER**

**MODEL 2905-6049**

4" x 100' Webbing  
max. 1 splice / roll

**MODEL 2905-6049-300**

4" x 300' Webbing **SPECIAL ORDER**  
max. 3 splices / roll

**LONG END**  
Fitted w/ Double  
Wire J-Hook



**MODEL 2905-6002-2-20**

for 2" x 20' 6002 Assembly

**MODEL 2905-6002-2-26**

for 2" x 26' 6002 Assembly

**MODEL 2905-6002-2-30**

for 2" x 30' 6002 Assembly

**MODEL 2905-6058-2**

for 2" x 27' 6058 Assembly

**MODEL 2905-6059-2**

for 2" x 30' 6059 Assembly

**MODEL 2905-6082-2**

for 4" x 27' 6082 Assembly  
16.2k lbs. BS

**MODEL 2905-6083-2**

for 4" x 30' 6083 Assembly  
16.2k lbs. BS

**MODEL 2905-6059-4-40**

for 4" x 40' 6082-40 Assembly

**LONG END**  
Fitted w/ Flat Hook



**MODEL 2905-6056-2**

for 2" x 27' 6056 Assembly

**MODEL 2905-6057-2**

for 2" x 30' 6057 Assembly

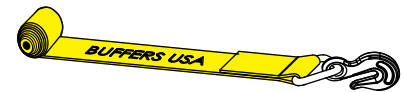
**MODEL 2904-2805**

for 4" x 27' Assembly, 15k lbs. BS

**MODEL 2904-2806**

for 4" x 30' Assembly, 15k lbs. BS

**LONG END**  
Fitted w/ Grab Hook



**MODEL 2905-6063-2**

for 2" x 30' 6063 Assembly, 10k lbs. BS

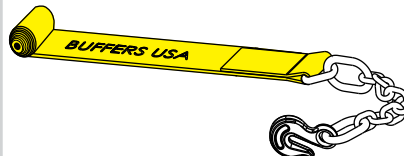
**MODEL 2904-2809**

for 4" x 27' Assembly, 16.2k lbs. BS

**MODEL 2904-2810**

for 4" x 30' Assembly, 16.2k lbs. BS

**LONG END**  
Fitted w/ 18" Chain Anchor



**MODEL 2904-2811**

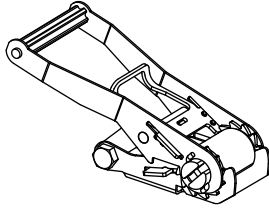
for 4" x 27' Assembly, 16.2k lbs. BS

**MODEL 2904-2812**

for 4" x 30' Assembly, 16.2k lbs. BS

2905

**RATCHET ONLY**



**MODEL 2905-6056-3**

for 2" Webbing

**MODEL 2905-6068-3**

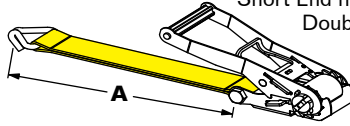
for 3" Webbing

**MODEL 2905-6080-3**

for 4" Webbing

**RATCHET ASSEMBLY**

Short End fitted w/  
Double Wire  
J-Hook



**MODEL 2905-6058-3-KIT-10**

for 2" Assembly, **A = 10"** **SPECIAL ORDER**

**MODEL 2905-6058-3-KIT-18**

for 2" Assembly, **A = 18"** **SPECIAL ORDER**

**MODEL 2905-6058-3-KIT-60**

for 2" Assembly, **A = 60"**

**MODEL 2905-6058-3-KIT-78**

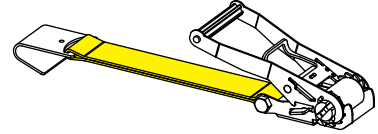
for 2" Assembly, **A = 78"**

**MODEL 2905-6082-3-KIT**

for 4" Assembly, **A = 19-1/2"** **SP. ORDER**

**RATCHET ASSEMBLY**

Short End fitted  
w/ Flat Hook



**MODEL 2905-6056-3-KIT**

for 2" Assembly

**MODEL 2905-6068-3-KIT**

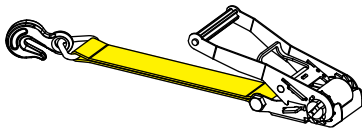
for 3" Assembly

**MODEL 2905-6080-3-KIT**

for 4" Assembly

**RATCHET ASSEMBLY**

Short End fitted  
w/ Grab Hook



**MODEL 2905-6062-3-KIT**

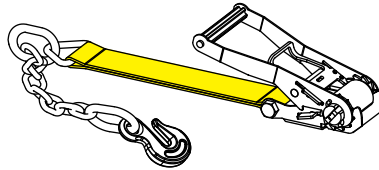
for 2" Assembly

**MODEL 2905-6086-3-KIT**

for 4" Assembly

**RATCHET ASSEMBLY**

Short End fitted w/  
Chain Anchor



**MODEL 2905-6060-3-KIT**

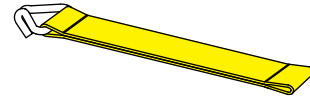
for 2" Assembly

**MODEL 2905-6084-3-KIT**

for 4" Assembly

**SHORT END**

Fitted w/ Double Wire J-Hook



**MODEL 2905-6058-1**

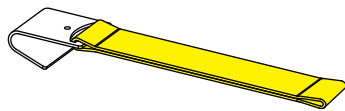
for 2" Assembly

**MODEL 2905-6082-1**

for 4" Assembly

**SHORT END**

Fitted w/ Flat Hook



**MODEL 2905-6056-1**

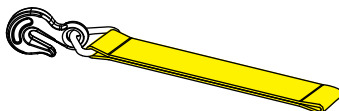
for 2" Assembly

**MODEL 2905-6080-1**

for 4" Assembly **SPECIAL ORDER**

**SHORT END**

Fitted w/ Grab Hook

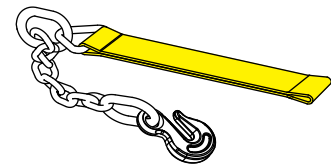


**MODEL 2905-6062-1**

for 2" Assembly

**SHORT END**

Fitted w/ Chain Anchor



**MODEL 2905-6060-1**

for 2" Assembly

**MODEL 2905-6084-1**

for 4" Assembly

### DOUBLE WIRE J-HOOKS

MODEL	FITS SIZE	A	MBS	WLL	WEIGHT
<b>2905-6058-3</b>	2"	2-1/32" 52 MM	10,000 # 4,536 Kg	3,333 # 1,511 Kg	0.62 LB 0.28 Kg
<b>2902-6070-3</b>	3"	3-1/32" 77.3 MM	13,000 # 5,897 Kg	5,000 # 2,267 Kg	1.6 LBS 0.7 Kg
<b>2902-6082-3</b>	4"	4-1/32" 102.6 MM	20,000 # 9,072 Kg	5,400 # 2,449 Kg	1.76 LBS 0.8 Kg

**MATERIAL:** HIGH-TENSILE STEEL **FINISH:** YELLOW ZINC-PLATED

### MODEL 2909-6009-3

#### SWIVEL J-HOOK

for 2"-wide Webbing

FITS 2" STRAP

**FINISH:** ZINC-PLATED  
**WEIGHT:** 1 LB / 0.45 Kg  
**WORKING LOAD LIMIT:** 3,667 LBS  
**MIN. BREAK STRENGTH:** 11,000 LBS

### DELTA RING

MODEL	FITS SIZE	WORKING LOAD LIMIT	WEIGHT
<b>SPECIAL ORDER</b>			
<b>2905-6064-3</b>	2"	3,333 LBS	0.9 LB / 0.41 Kg
<b>2905-6072-3</b>	3"	5,000 LBS	1.3 LBS / 0.59 Kg

MODEL	FITS SIZE	WORKING LOAD LIMIT	WEIGHT
<b>2905-2807-3</b>	4"	5,400 LBS	1.5 LBS / 0.68 Kg

**FINISH:** ZINC-PLATED

### MODEL 2911-6868

#### WEB STRAP BUCKLE

for 2"-wide Webbing

**MATERIAL:** FORGED STEEL  
**FINISH:** ZINC-PLATED  
**WEIGHT:** 0.71 LB / 0.32 Kg  
**MIN. BREAK STRENGTH:** 10,000 LBS

### MODEL 2907-6030-1

#### CAM BUCKLE

for 2"-wide Webbing

**MATERIAL:** FORGED STEEL  
**FINISH:** ZINC-PLATED  
**WEIGHT:** 0.55 LB / 0.25 Kg  
**MIN. BREAK STRENGTH:** 3,000 LBS

### SPECIAL ORDER MODEL 2905-6002-3-SL

#### DOUBLE WIRE J-HOOK w/ Spring Latch

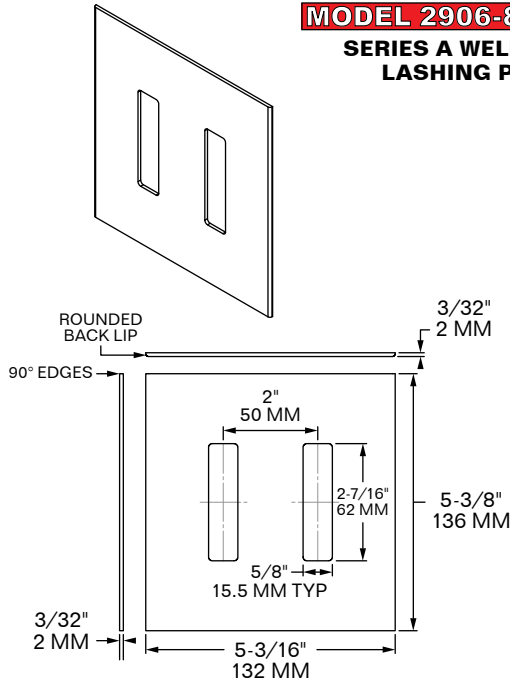
for 2"-wide Webbing

**FINISH:** YELLOW ZINC-PLATED  
**WEIGHT:** 0.92 LB / 0.41 Kg

**2906**

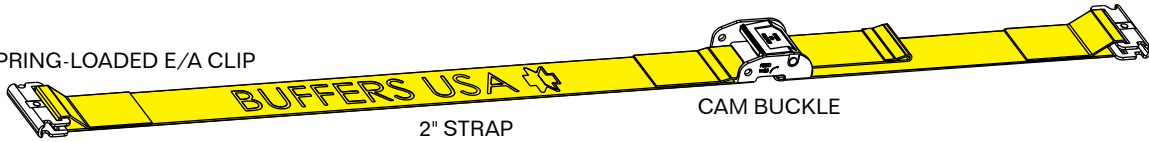
**MODEL 2906-8164**

**SERIES A WELD-ON  
LASHING PLATE**



**MATERIAL: STEEL FINISH: ZINC-PLATED**  
**WEIGHT: 0.56 LBS / 0.254 Kg**

SPRING-LOADED E/A CLIP



2" STRAP

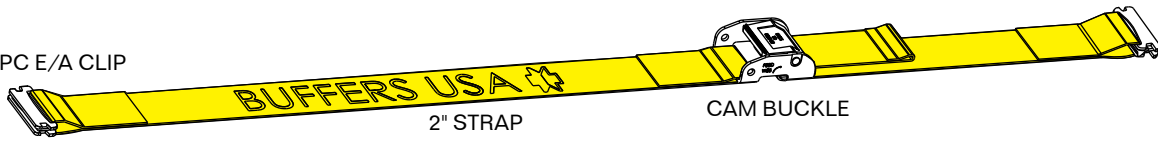
CAM BUCKLE

FITS E & A SERIES TRACKS

**WORKING LOAD LIMIT (WLL):** 835 LBS / 379 Kg  
**MIN. BREAK STRENGTH (BS):** 2,500 LBS / 1,134 Kg

MODEL	DESCRIPTION	COLOR	WEIGHT
<b>2907-6030</b>	2" x 12' w/ SPRING-LOADED E/A CLIP	YELLOW	1.70 LBS / 0.77 Kg
<b>2907-6031</b>	2" x 16' w/ SPRING-LOADED E/A CLIP	GRAY	1.92 LBS / 0.87 Kg
<b>2907-6032</b>	2" x 20' w/ SPRING-LOADED E/A CLIP	BLUE	2.09 LBS / 0.95 Kg

3-PC E/A CLIP



2" STRAP

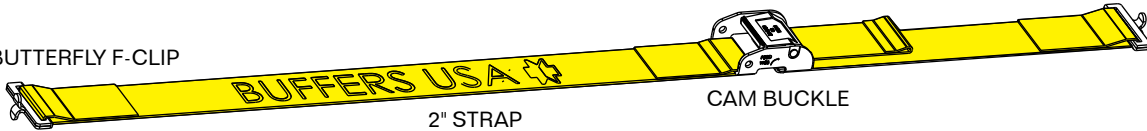
CAM BUCKLE

FITS E & A SERIES TRACKS

**WORKING LOAD LIMIT (WLL):** 835 LBS / 379 Kg  
**MIN. BREAK STRENGTH (BS):** 2,500 LBS / 1,134 Kg

MODEL	DESCRIPTION	COLOR	WEIGHT
<b>2907-6033</b>	2" x 12' w/ E/A CLIP	YELLOW	1.65 LBS / 0.75 Kg
<b>2907-6034</b>	2" x 16' w/ E/A CLIP	GRAY	1.83 LBS / 0.83 Kg
<b>2907-6035</b>	2" x 20' w/ E/A CLIP	BLUE	2.00 LBS / 0.91 Kg

BUTTERFLY F-CLIP



2" STRAP

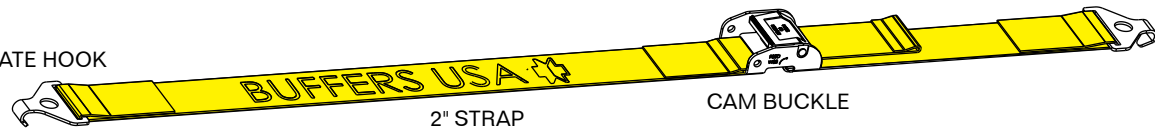
CAM BUCKLE

FITS F SERIES TRACKS

**WORKING LOAD LIMIT (WLL):** 500 LBS / 227 Kg  
**MIN. BREAK STRENGTH (BS):** 1,500 LBS / 680 Kg

MODEL	DESCRIPTION	COLOR	WEIGHT
<b>2907-6036</b>	2" x 12' w/ BUTTERFLY F-CLIP	YELLOW	1.45 LBS / 0.66 Kg
<b>2907-6037</b>	2" x 16' w/ BUTTERFLY F-CLIP	GRAY	1.62 LBS / 0.74 Kg
<b>2907-6038</b>	2" x 20' w/ BUTTERFLY F-CLIP	BLUE	1.80 LBS / 0.82 Kg

PLATE HOOK



2" STRAP

CAM BUCKLE

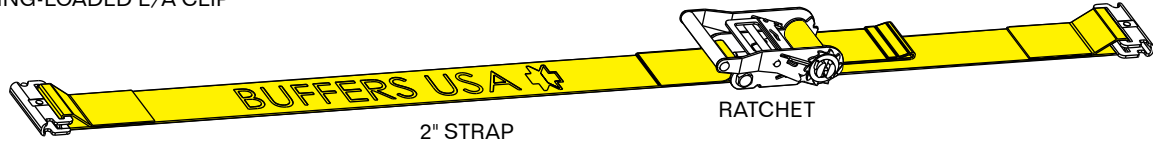
FITS F SERIES TRACKS

**WORKING LOAD LIMIT (WLL):** 800 LBS / 363 Kg  
**MIN. BREAK STRENGTH (BS):** 2,400 LBS / 1,088 Kg

MODEL	DESCRIPTION	COLOR	WEIGHT
<b>2907-6039</b>	2" x 12' w/ PLATE HOOK	YELLOW	1.65 LBS / 0.75 Kg
<b>2907-6040</b>	2" x 16' w/ PLATE HOOK	GRAY	1.83 LBS / 0.83 Kg
<b>2907-6041</b>	2" x 20' w/ PLATE HOOK	BLUE	2.00 LBS / 0.91 Kg

2907

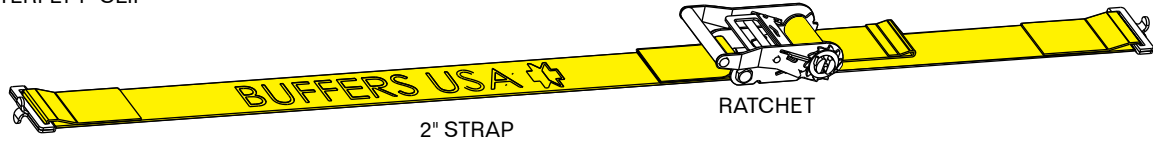
SPRING-LOADED E/A CLIP



**FITS E & A SERIES TRACKS**

MODEL	DESCRIPTION	COLOR	WORKING LOAD LIMIT (WLL):	MIN. BREAK STRENGTH (BS):	WEIGHT
<b>2907-6018</b>	2" x 12' w/ Spring-Loaded E/A Clip	YELLOW	1,400 LBS / 635 Kg	4,200 LBS / 1,905 Kg	2.1 LBS / 0.95 Kg
<b>2907-6022</b>	2" x 16' w/ Spring-Loaded E/A Clip	GRAY	1,000 LBS / 453 Kg	3,000 LBS / 1,360 Kg	2.2 LBS / 1 Kg
<b>2907-6023</b>	2" x 20' w/ Spring-Loaded E/A Clip	BLUE	1,000 LBS / 453 Kg	3,000 LBS / 1,360 Kg	2.4 LBS / 1.09 Kg

BUTTERFLY F-CLIP

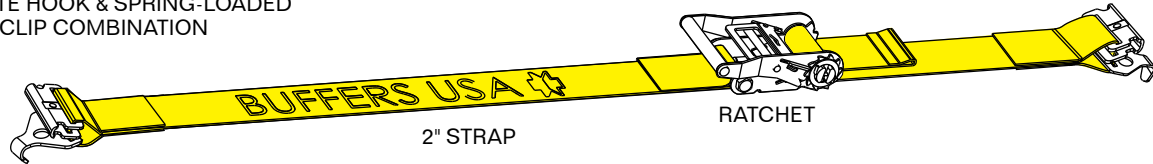


**FITS F SERIES TRACKS**

**WORKING LOAD LIMIT (WLL):** 500 LBS / 227 Kg  
**MIN. BREAK STRENGTH (BS):** 1,500 LBS / 680 Kg

MODEL	DESCRIPTION	COLOR	WEIGHT
<b>2907-6024</b>	2" x 12' w/ Butterfly F Clip	YELLOW	1.85 LBS / 0.84 Kg
<b>2907-6025</b>	2" x 16' w/ Butterfly F Clip	GRAY	2.05 LBS / 0.93 Kg
<b>2907-6026</b>	2" x 20' w/ Butterfly F Clip	BLUE	2.25 LBS / 1.02 Kg

PLATE HOOK & SPRING-LOADED E/A CLIP COMBINATION

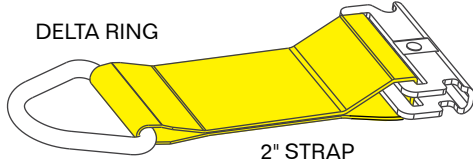


**FITS E, A & F SERIES TRACKS**

**WORKING LOAD LIMIT (WLL):** 833 LBS / 378 Kg  
**MIN. BREAK STRENGTH (BS):** 2,500 LBS / 1,134 Kg

MODEL	DESCRIPTION	COLOR	WEIGHT
<b>2907-6027</b>	2" x 12' w/ Plate Hook & Spring-Loaded E/A Clip	YELLOW	2.55 LBS / 1.16 Kg
<b>2907-6028</b>	2" x 16' w/ Plate Hook & Spring-Loaded E/A Clip	GRAY	2.75 LBS / 1.25 Kg
<b>2907-6029</b>	2" x 20' w/ Plate Hook & Spring-Loaded E/A Clip	BLUE	2.95 LBS / 1.34 Kg

**SPRING-LOADED E/A CLIP  
 FITS E & A SERIES TRACKS**

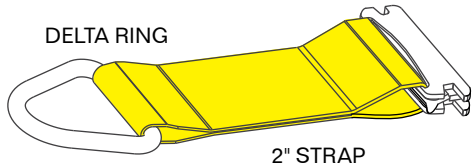


**MODEL 2907-6044**

**2" x 6" TIE-OFF w/ DELTA RING  
 & SPRING-LOADED E/A CLIP**

**WORKING LOAD LIMIT (WLL):** 1,000 LBS / 454 Kg  
**MIN. BREAK STRENGTH (BS):** 3,000 LBS / 1,361 Kg  
**STRAP COLOR:** YELLOW **WEIGHT:** 0.4 LBS / 0.18 Kg

**3-PC E/A CLIP  
 FITS E & A SERIES TRACKS**

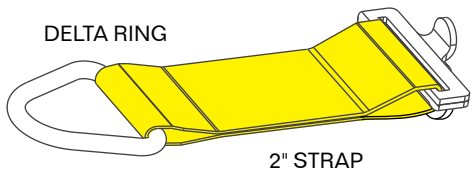


**MODEL 2907-6045**

**2" x 6" TIE-OFF w/ DELTA RING  
 & 3-PC. E/A CLIP**

**WORKING LOAD LIMIT (WLL):** 1,000 LBS / 454 Kg  
**MIN. BREAK STRENGTH (BS):** 3,000 LBS / 1,361 Kg  
**STRAP COLOR:** YELLOW **WEIGHT:** 0.3 LBS / 0.14 Kg

**BUTTERFLY F-CLIP  
 FITS F SERIES TRACKS**



**MODEL 2907-6046**

**2" x 6" TIE-OFF w/ DELTA RING  
 & BUTTERFLY F-CLIP**

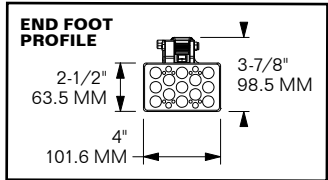
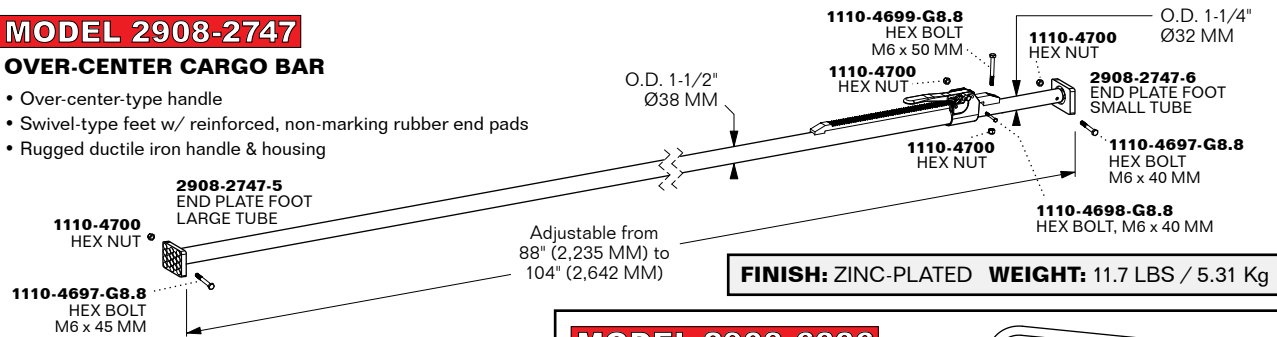
**WORKING LOAD LIMIT (WLL):** 500 LBS / 227 Kg  
**MIN. BREAK STRENGTH (BS):** 1,500 LBS / 680 Kg  
**STRAP COLOR:** YELLOW **WEIGHT:** 0.25 LBS / 0.11 Kg

2908

## MODEL 2908-2747

### OVER-CENTER CARGO BAR

- Over-center-type handle
- Swivel-type feet w/ reinforced, non-marking rubber end pads
- Rugged ductile iron handle & housing



**PLEASE NOTE:** Cargo bars do not have load ratings due to varying conditions of trailer sidewalls.

## MODEL 2908-6336

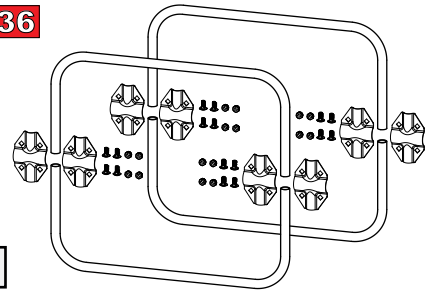
### HOOP KIT (sold separately)

Provides larger securing area for 2747 Cargo Bar.

#### INCLUDES:

- 4 Bolt-on Hoops (steel tubing)
- 8 Steel Brackets
- 18 Nuts & 18 Bolts

**WEIGHT: 12.7 LBS / 5.76 Kg**

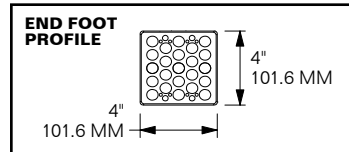
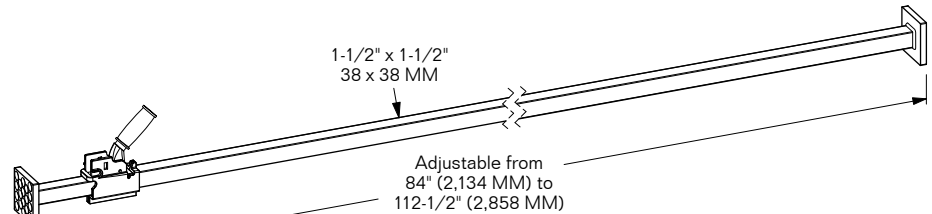


## MODEL 2908-2899

### JACK-TYPE CARGO BAR

- Jack-type handle
- Rigid-type feet w/ reinforced, non-marking rubber end pads
- Rugged square tubing construction

**FINISH: ZINC-PLATED  
WEIGHT: 13.85 LBS / 6.28 Kg**



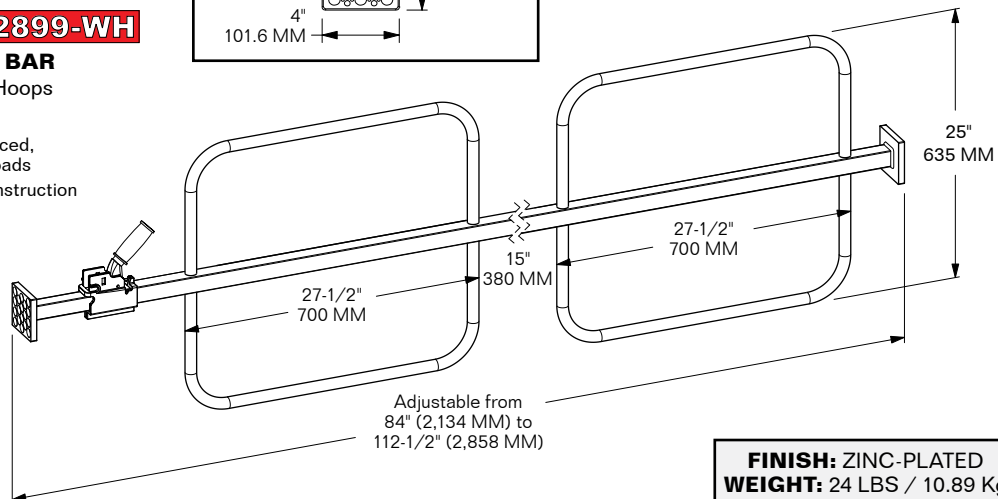
**PLEASE NOTE:** Cargo bars do not have load ratings due to varying conditions of trailer sidewalls.

## MODEL 2908-2899-WH

### JACK-TYPE CARGO BAR

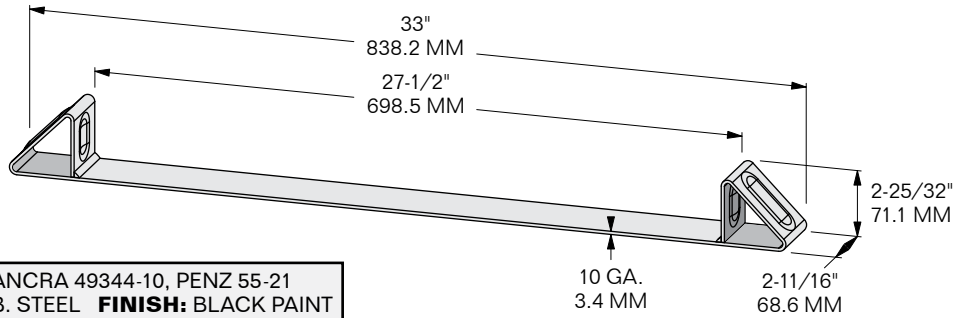
2908-2899 w/ Welded Hoops

- Jack-type handle
- Rigid-type feet w/ reinforced, non-marking rubber end pads
- Rugged square tubing construction
- Welded hoops



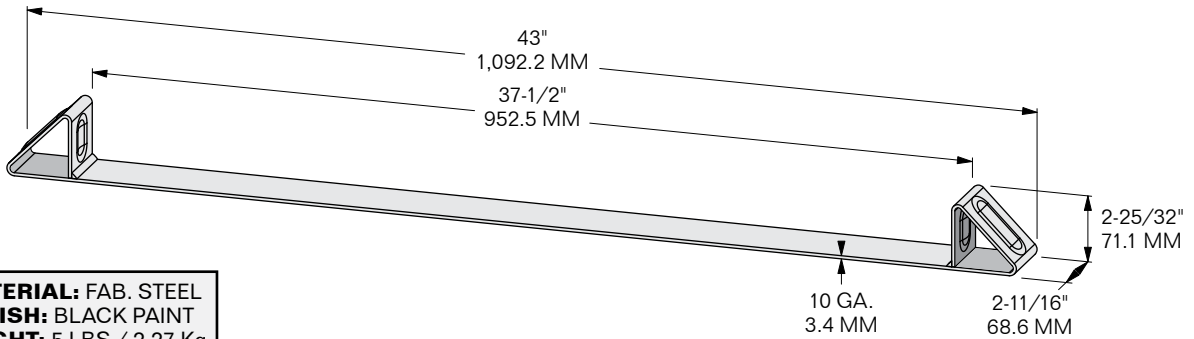


**MODEL 2908-6347**



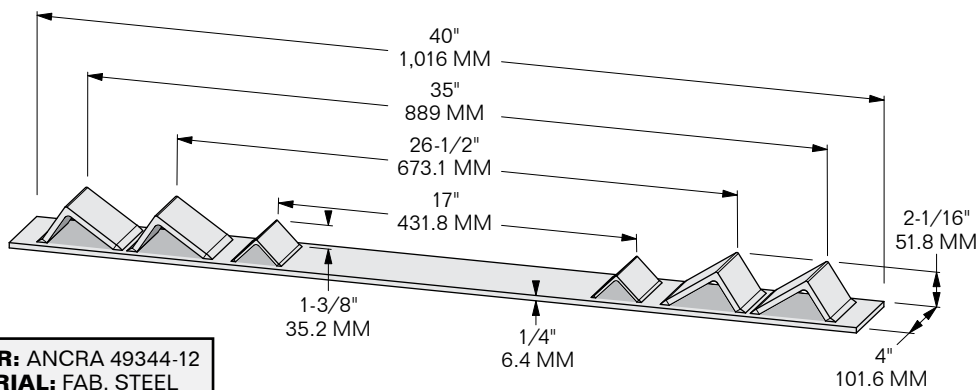
**SUB FOR:** ANCRA 49344-10, PENZ 55-21  
**MATERIAL:** FAB. STEEL **FINISH:** BLACK PAINT  
**WEIGHT:** 4.7 LBS / 2.13 Kg

**MODEL 2908-6348**



**MATERIAL:** FAB. STEEL  
**FINISH:** BLACK PAINT  
**WEIGHT:** 5 LBS / 2.27 Kg

**MODEL 2908-6350**



**SUB FOR:** ANCRA 49344-12  
**MATERIAL:** FAB. STEEL  
**FINISH:** BLACK PAINT  
**WEIGHT:** 16.15 LBS / 7.33 Kg

**2909**

**MODEL 2909-6014**  
**RATCHET STRAP ASSEMBLY**  
1" x 7' w/ S-HOOKS

**WORKING LOAD LIMIT (WLL):** 1,033 LBS / 468 Kg  
**BREAK STRENGTH (BS):** 3,100 LBS / 1,406 Kg

**NOTE:** NOT FOR LIFTING. LOAD-SECURING ONLY.  
**WEIGHT:** 1.8 LBS / 0.81 Kg

**MODEL 2909-6012**  
**OVER-CENTER BUCKLE STRAP**  
1" x 6'-6" w/ FLAT HOOKS

1. PUSH HANDLE TOWARD FIXED-LENGTH END AS SHOWN. PULL THE LOOSE END OF THE STRAP TO TIGHTEN.

FIXED-LENGTH END

PULL HERE TO TIGHTEN

2. WITH HOOKS ATTACHED, PULL HANDLE BACK UNTIL IT CLICKS PAST LOCKING KNOBS.

LOCKING KNOBS ON BOTH SIDES OF HANDLE

3. IN THIS POSITION, THE STRAP ASSEMBLY IS NOW IN THE SECURED POSITION.

TO RELEASE, RETURN HANDLE TOWARD FIXED-LENGTH END.

TO S-HOOK

TO S-HOOK

WEAVING STRAP THROUGH OVER-CENTER BUCKLE

OVER-CENTER BUCKLE SECTION

**WORKING LOAD LIMIT (WLL):** 1,100 LBS / 498 Kg  
**BREAK STRENGTH (BS):** 3,300 LBS / 1,496 Kg

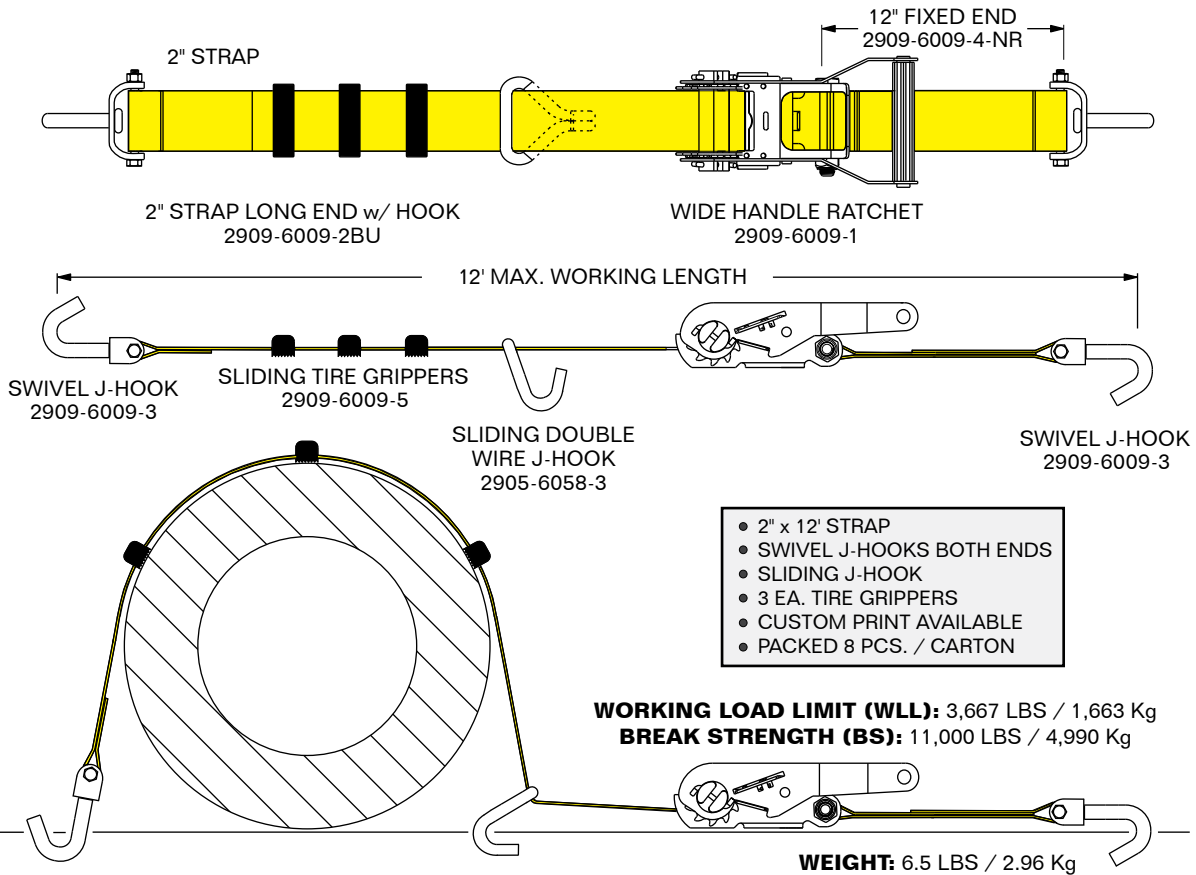
**NOTE:** NOT FOR LIFTING. LOAD-SECURING ONLY.

**WEIGHT:** 1.40 LBS / 0.64 Kg



**MODEL 2909-6009-BU**

**RATCHET TIE-DOWN FOR AUTOMOBILE HAULER (WHEEL STRAP)**



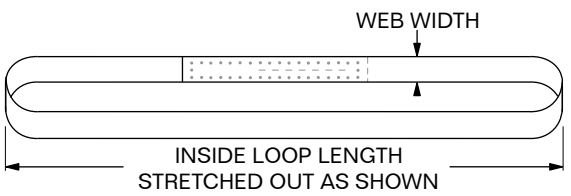
2909

- 2" x 12' STRAP
- SWIVEL J-HOOKS BOTH ENDS
- SLIDING J-HOOK
- 3 EA. TIRE GRIPPERS
- CUSTOM PRINT AVAILABLE
- PACKED 8 PCS. / CARTON

**WORKING LOAD LIMIT (WLL):** 3,667 LBS / 1,663 Kg  
**BREAK STRENGTH (BS):** 11,000 LBS / 4,990 Kg

**WEIGHT:** 6.5 LBS / 2.96 Kg

**ENDLESS SLING / RING SLING**



**USED AS TIE-OFF POINTS FOR VEHICLES ON RO-RO SHIPS**  
**VERTICAL WORKING LOAD LIMIT IS 1/5 OF MINIMUM BREAK STRENGTH**

MODEL	WEB WIDTH	CIRCUM.	INSIDE LOOP LENGTH	MBS VERTICAL	WLL VERTICAL	WLL BASKET 2 x VERT.	WLL CHOKER 0.8 x VERT.	COLOR
2909-6776	1" 25.4 MM	4' 1.2 M	2' 0.6 M	4,620 LBS 2,100 Kg	924 LBS 420 Kg	1,848 LBS 840 Kg	739 LBS 336 Kg	WHITE
2909-6017	1-1/8" 28 MM	4' 1.2 M	2' 0.6 M	16,000 LBS 7,260 Kg	3,200 LBS 1,452 Kg	6,400 LBS 2,900 Kg	2,560 LBS 1,161 Kg	WHITE
2909-6778	2" 50 MM	10' 3 M	5' 1.5 M	8,818 LBS 4,000 Kg	1,764 LBS 800 Kg	3,527 LBS 1,600 Kg	1,410 LBS 640 Kg	BLUE
2909-6779	2" 50 MM	10' 3 M	5' 1.5 M	16,534 LBS 7,500 Kg	3,306 LBS 1,500 Kg	6,614 LBS 3,000 Kg	2,645 LBS 1,200 Kg	GREEN
2909-6780	3" 75 MM	8' 2.44 M	4' 1.22 M	22,046 LBS 10,000 Kg	4,409 LBS 2,000 Kg	8,818 LBS 4,000 Kg	3,527 LBS 1,600 Kg	RED

2909

**MODELS 2909-2764 & 2909-2876**  
 CLUSTER CONTAINS 2 MASTER LINKS,  
 GRAB HOOK, R-HOOK, T-HOOK & S-HOOK.

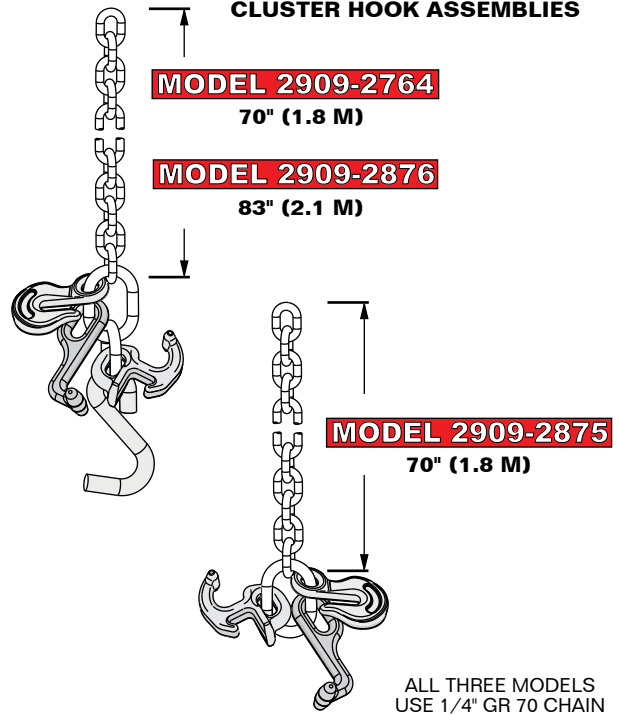
**MODEL 2909-2875**  
 CLUSTER CONTAINS 1 MASTER LINK, GRAB HOOK,  
 R-HOOK & T-HOOK. DOES NOT CONTAIN S-HOOK.

GRAB HOOK (5/16") FOR MISC. SECURING  
 R-HOOK FITS FORD  
 T-HOOK FITS GM, CHRYSLER  
 S-HOOK FITS OTHER MAKES

**MATERIAL:** FORGED STEEL  
**FINISH:** ZINC-PLATED

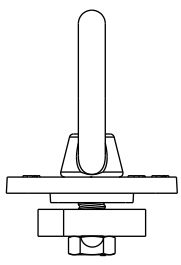
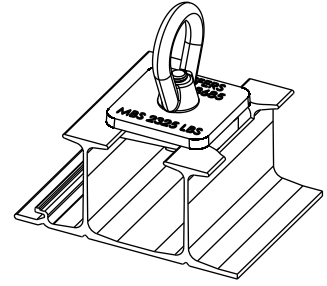
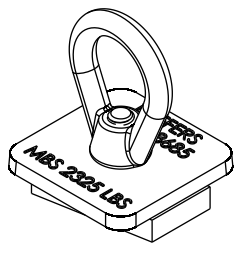
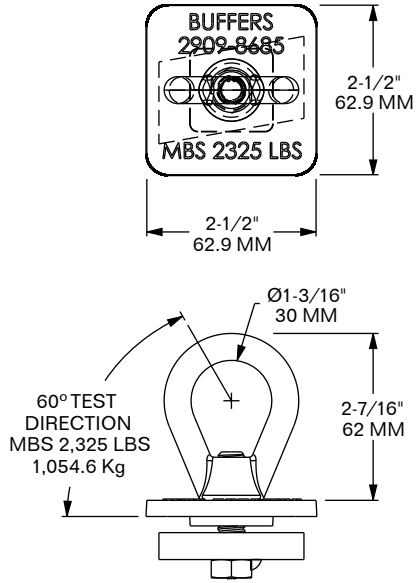
**WORKING LOAD LIMIT (WLL):** 3,150 LBS / 1,430 Kg  
**NOTE:** NOT FOR LIFTING. LOAD-SECURING ONLY.

**CLUSTER HOOK ASSEMBLIES**



**MODEL 2909-8685**

**2909**



**USED AS TEMPORARY  
TIE-OFF POINT ON REEFER  
CONTAINER FLOORS.**

**MBS 2,325 LBS / 1,054 Kg**

**WORKS WITH: T-FLOOR MATERIAL: FORGED EYE NUT  
FINISH: ZINC-PLATED WEIGHT: 1.05 LBS / 0.48 Kg**

### POLYPROPYLENE & PAPER DUNNAGE BAGS

#### CARGO HANDLING & PROTECTION SOLUTIONS



A SUPERIOR SOLUTION  
TO PREVENT CARGO  
DAMAGE FROM  
LOAD SHIFTING



#### GENERAL APPLICATIONS

**BUFFERS USA®** dunnage bags are the convenient way to protect your goods from being damaged during shipping by preventing load shifting when transporting boxed, palletized or different/odd-shaped products/packaging.

Dunnage bags are also a less expensive means of blocking and bracing than the use of lumber and nails or expensive rubber air bags. BUFFERS USA offers both polypropylene and paper dunnage bags.

#### REUSABLE POLYPROPYLENE DUNNAGE BAGS

**Comprehensive Product Range:** 5 different strength levels and 29 different sizes per level provide 145 different standard bag options. Custom sizes to your specifications are also available.

**Safe:** Bags are produced under ISO 9001 & 14001 standards and certified by the Association of American Railroads (AAR) and the Railway Association of Canada (RAC). 100% leakproof, tested at factory.

**Cost Effective:** Levels 1, 2 and 3 (non-railroad) are reusable. Ability to reuse reduces cost for second use by 50%.

**Lightweight & Waterproof:** Easy to handle, light in weight, take up less space, and are resistant to moisture and water ingress.

**Easier To Install Than Vinyl Bag:** Rigidity of polypropylene bag when flat and empty enables faster, easier install in tight or hard-to-reach places.

**Takes Shape To Odd Configurations:** Bags are flexible enough to fill every shape and odd space between cargo.

**Can Fill a Larger Void Than Paper Bags:** Polypropylene dunnage bags can fill a space up to 18", much larger compared to the paper dunnage bags, which can only fill a void up to 14".

**Durable Construction:** Strong, woven polypropylene outer fabric layer and airtight polyethylene inner bladder with an inflating and deflating valve.

**Environmentally Friendly:** 100% recyclable virgin materials.

**Easy To Use:** Dunnage bags can be installed in a few minutes using an air hose and inflator tip. After use, deflate the bag by simply unscrewing the valve. No need to puncture to deflate.

#### KRAFT PAPER DUNNAGE BAGS

**Safety:** Provides same protection against load shifting.

**Cost-Effective:** Less expensive than polypropylene bags.

**Practical:** One-time use, suitable for export shipments.

**Sturdy Construction:** Made from multiple layers (2-, 4-, 6- or 8-ply) of high-strength kraft paper with an inflatable internal polyethylene bladder.

**Note:** Not suitable for wet or moist cargo.

### ORDERING INFORMATION

#### 1) Choose Your Strength Based On Mode Of Transport:

Polypropylene Level	Paper Ply	Mode of Transport	Strength
Level 1 (L1)	2-ply	Truck	Max: 3 psi (0.21 bar or kg/cm <sup>2</sup> )
Level 2 (L2)	4-ply	Intermodal container	Max: 4 psi (0.28 bar or kg/cm <sup>2</sup> )
Level 3 (L3)	6-ply	Normal rail use	Max: 6 psi (0.41 bar or kg/cm <sup>2</sup> )
Level 4 (L4)	8-ply	Over 160,000 lbs. in rail car	Max: 7 psi (0.48 bar or kg/cm <sup>2</sup> )
Level 5 (L5)		Over 200,000 lbs. load in rail car (High Cube car)	Max: 8 psi (0.55 bar or kg/cm <sup>2</sup> )

2910

2) Determine Size: Specify bag size(s) at about 90% of width and length of each void space.

3) Select Bag From The Following Charts Based On Above Requirements/Measurements:

#### REUSABLE POLYPROPYLENE DUNNAGE BAGS

Sizes Available For Levels 1, 2, 3, 4 and 5 (145 combinations of level/size models):

30" WIDE	36" WIDE	46.5" WIDE	57.5" WIDE
30" x 30" (726 mm x 726 mm)	36" x 36" (914 mm x 914 mm)	46.5" x 48" (1,181 mm x 1,219 mm)	57.5" x 96" (1,461 mm x 2,438 mm)
30" x 48" (726 mm x 1,219 mm)	36" x 48" (914 mm x 1,219 mm)	46.5" x 60" (1,181 mm x 1,524 mm)	57.5" x 108" (1,461 mm x 2,743 mm)
30" x 60" (712 mm x 1,524 mm)	36" x 60" (914 mm x 1,524 mm)	46.5" x 72" (1,181 mm x 1,828 mm)	57.5" x 120" (1,461 mm x 3,048 mm)
30" x 72" (726 mm x 1,828 mm)	36" x 66" (914 mm x 1,676 mm)	46.5" x 84" (1,181 mm x 2,134 mm)	
30" x 84" (726 mm x 2,134 mm)	36" x 72" (914 mm x 1,828 mm)	46.5" x 96" (1,181 mm x 2,438 mm)	
30" x 96" (726 mm x 2,438 mm)	36" x 84" (914 mm x 2,134 mm)	46.5" x 102" (1,181 mm x 2,591 mm)	
30" x 102" (726 mm x 2,591 mm)	36" x 96" (914 mm x 2,438 mm)	46.5" x 108" (1,181 mm x 2,743 mm)	
30" x 108" (726 mm x 2,743 mm)	36" x 102" (914 mm x 2,591 mm)	46.5" x 120" (1,181 mm x 3,048 mm)	
	36" x 108" (914 mm x 2,743 mm)	46.5" x 132" (1,181 mm x 3,353 mm)	

#### KRAFT PAPER DUNNAGE BAGS

All sizes available in 2-, 4-, 6- and 8-ply (100 combinations of ply/size models):

WIDTHS	LENGTHS					
20" (500 mm)	24" (600 mm)					
32" (800 mm)	48" (1,200 mm)	63" (1,600 mm)	95" (2,400 mm)	102" (2,600 mm)		
36" (900 mm)	40" (1,000 mm)	48" (1,200 mm)	60" (1,500 mm)	71" (1,800 mm)	87" (2,200 mm)	95" (2,400 mm)
40" (1,000 mm)	48" (1,200 mm)	60" (1,500 mm)	71" (1,800 mm)	87" (2,200 mm)	95" (2,400 mm)	
48" (1,200 mm)	71" (1,800 mm)	87" (2,200 mm)	95" (2,400 mm)	102" (2,600 mm)		

# KRAFT PAPER-CLAD POLYPROPYLENE DUNNAGE BAGS

EXTRA STRENGTH AT A COST-EFFECTIVE PRICE

2910



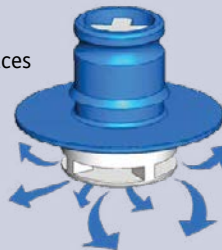
BUFFERS USA now offers a unique **KRAFT PAPER-CLAD POLYPROPYLENE** paper dunnage bag that combines the strength of polypropylene with the convenience and cost effectiveness of paper dunnage bags. **Our complete line of paper and polypropylene dunnage bags** are the convenient way to protect your goods from being damaged during shipping by preventing load shifting when transporting boxed, palletized or different/odd shaped products/packaging. Dunnage bags are also a less expensive means of blocking and bracing than the use of lumber and nails or expensive rubber air bags.

## BUFFERS USA EXCLUSIVE! ONE-PIECE VALVE DESIGN PROVIDES FAST, SAFE & CONVENIENT INFLATION



- Convenient, sturdy finger grip
- Attached dust cap
- Quick-connect lock-ring style tip for inflation/deflation

- Single O-ring design reduces risk of leakage
- Integrated air dispenser/diverter



### INDUSTRY-LEADING FEATURES & BENEFITS:

**Cost-Effective:**  
Less expensive than 100% polypropylene bags. Designed specifically for Levels 1 and 2 (L1 & L2).

**Practical:**  
One-time use; suitable for truck and intermodal export shipments.

**Takes Shape To Odd Configurations:**  
Bags are flexible enough to fill every shape and odd space between cargo.

**Easy To Use:**  
Dunnage bags can be installed in a few minutes using an air hose and inflator tip. After use, simply insert the quick-connect lock-ring tip to deflate; there's no need to puncture the bag.

**Easier To Install Than Vinyl Bag:**  
Rigidity of bag when flat and empty enables faster, easier installation in tight or hard-to-reach places.

**Environmentally Friendly:**  
100% recyclable virgin materials.

**NOTE:** Not suitable for wet or moist cargo.





### FAST, SAFE & EASY INFLATION



Attach quick-connect lock-ring tip to filler valve.



Use pressure gauge when filling.  
Use tool model 2910-6983-HD-KIT.

2910

### ORDERING INFORMATION

#### 1) Choose Your Strength Based On Mode Of Transport:

Strength Level	Cladding Thickness	Bladder Thickness	Mode of Transport	Max Fill Pressure	Min. Burst Pressure
<b>Level 1 (L1)</b>	0.20 mm	0.07 mm	Truck	3 psi (0.21 bar / kg/cm <sup>2</sup> )	5.8 psi (0.4 bar / kg/cm <sup>2</sup> )
<b>Level 2 (L2)</b>	0.25 mm	0.10 mm	Intermodal Container	4 psi (0.28 bar / kg/cm <sup>2</sup> )	8.7 psi (0.6 bar / kg/cm <sup>2</sup> )

#### 2) Determine Size: Specify bag size at about 90% of the width and length of the void space area. **Note:** Not recommended for void depth over 15" (380 mm).

#### 3) Select Available Bag Size(s):

Widths	Lengths					
20" (500 mm)	24" (600 mm) 2910-L1-2024-P					
32" (800 mm)	48" (1,200 mm) 2910-L1-3248-P* 2910-L2-3248-P*	63" (1,600 mm) 2910-L1-3263-P* 2910-L2-3263-P*	95" (2,400 mm) 2910-L1-3295-P* 2910-L2-3295-P*	102" (2,600 mm) 2910-L1-32102-P* 2910-L2-32102-P*		
36" (900 mm)	40" (1,000 mm) 2910-L1-3640-P*	48" (1,200 mm) 2910-L1-3648-P* 2910-L2-3648-P*	60" (1,500 mm) 2910-L1-3660-P* 2910-L2-3660-P*	71" (1,800 mm) 2910-L1-3671-P* 2910-L2-3671-P*	86" (2,180 mm) 2910-L1-3686-P* 2910-L2-3686-P*	95" (2,400 mm) 2910-L1-3695-P* 2910-L2-3695-P*
40" (1,000 mm)	48" (1,200 mm) 2910-L1-4048-P* 2910-L2-4048-P*	60" (1,500 mm) 2910-L1-4060-P* 2910-L2-4060-P*	71" (1,800 mm) 2910-L1-4071-P* 2910-L2-4071-P*	87" (2,200 mm) 2910-L1-4087-P* 2910-L2-4087-P*	95" (2,400 mm) 2910-L1-4095-P* 2910-L2-4095-P*	
48" (1,200 mm)	71" (1,800 mm) 2910-L1-4871-P* 2910-L2-4871-P*	87" (2,200 mm) 2910-L1-4887-P* 2910-L2-4887-P*	95" (2,400 mm) 2910-L1-4895-P* 2910-L2-4895-P*	102" (2,600 mm) 2910-L1-48102-P* 2910-L2-48102-P*		

\* SPECIAL ORDER ONLY

### AAR-Tested and Approved Woven Polyester Lashing



2911

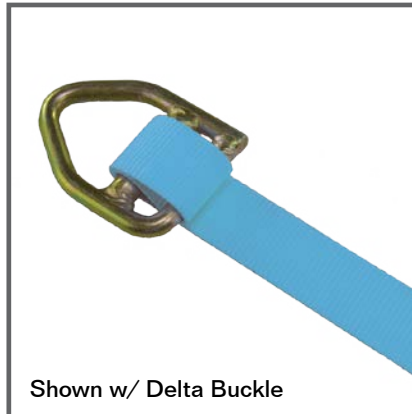


The THORSTRAP® Cargo Securement System is an economical alternative to traditional chain lashing or steel banding. This woven polyester strapping system is ideal for securing large, bulky loads and irregular shaped cargo. It will absorb impacts and load shifting that could break steel banding. The danger from lash-back incidents when cut is greatly reduced with the THORSTRAP® Cargo Securement System.

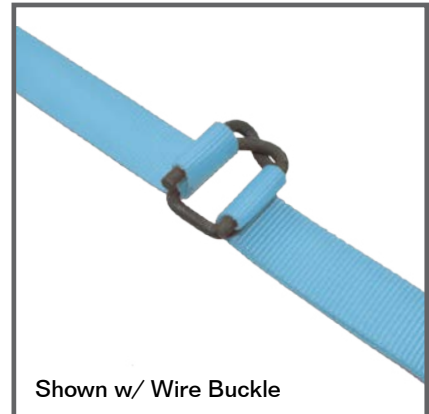
- Lighter and stronger than traditional steel banding or chain lashing.
- More shock-absorbent than steel.
- Maintains tension, but can be re-tensioned if necessary.
- Tensioned by using wire or flat buckles and removable tensioner tool or hand-tied.
- AAR Tested, Approved and Certified; Buffers' identification mark is **AAR-7**.
- Wound on spools with 1" ID coil.
- Spools packaged in 10" W x 10" H x 11" L cartons.



Shown w/ Ladder Buckle



Shown w/ Delta Buckle



Shown w/ Wire Buckle

### AAR-Tested and Approved Woven Polyester Lashing



2911

#### THORSTRAP® Webbing, MBS & MSL for Single Use, No Buckle (with buckle see below)

MBS and MSL values shown in this table are for single webbing ONLY and are printed on webbing, per AAR requirements. Strength of webbing joint is min. 75% of webbing MBS.

Part Number	Color	Material	Width	ft/coil	Min. Break Strength (MBS)			Max. Securing Load* (MSL)			AAR Grade for type 1A Strapping	Use w/ Buckle type
					Lbf	Kgf	daN	Lbf	Kgf	daN		
2911-7421**	Blue	Woven Polyester	3/4"	1,345'	1,585	719	705	793	360	353	3	Wire
2911-7423	Blue	Woven Polyester	1-1/4"	820'	4,200	1,905	1,869	2,100	953	935	5	Ladder
2911-7424	Blue	Woven Polyester	1-1/2"	672'	5,400	2,450	2,403	2,700	1,225	1,202	5	Ladder
2911-7425	Blue	Woven Polyester	1-5/8"	459'	7,700	3,493	3,426	3,850	1,747	1,713	6	Ladder
2911-7426	Blue	Woven Polyester	1-5/8"	328'	11,000	4,990	4,895	5,500	2,495	2,448	7	Ladder

\*\* SPECIAL ORDER ONLY

\*Safety factor is 2:1

#### THORSTRAP® Webbing, MBS & MSL for Loop Use with Buckle (175% of Single MBS)

MBS and MSL values shown in this table are calculated loop strength values; shown for marketing purposes only. These are NOT AAR-endorsed values.

Part Number	Color	Material	Width	ft/coil	Min. Break Strength (MBS)			Max. Securing Load* (MSL)			AAR Grade for type 1A Strapping	Use w/ Buckle type
					Lbf	Kgf	daN	Lbf	Kgf	daN		
2911-7421**	Blue	Woven Polyester	3/4"	1,345'	2,774	1,258	1,234	1,387	629	617	3	Wire
2911-7423	Blue	Woven Polyester	1-1/4"	820'	7,350	3,334	3,271	3,675	1,667	1,636	5	Ladder
2911-7424	Blue	Woven Polyester	1-1/2"	672'	9,450	4,287	4,206	4,725	2,144	2,103	5	Ladder
2911-7425	Blue	Woven Polyester	1-5/8"	459'	13,475	6,112	5,996	6,738	3,056	2,998	6	Ladder
2911-7426	Blue	Woven Polyester	1-5/8"	328'	19,250	8,732	8,566	9,625	4,366	4,283	7	Ladder

\*\* SPECIAL ORDER ONLY

\*Safety factor is 2:1

#### Wire Buckles for THORSTRAP® Webbing

Note that wire buckles can reduce the safety factor when used on 1-1/4" and 1-1/2".

Part Number	Material	Size	Wire Dia.	Package Quantity	Weight per carton
2911-7442	Steel, Phosphate Plated	3/4"	Ø4.5 mm	500/ctn	27.8 lbs / 12.61 Kg
2911-7443	Steel, Phosphate Plated	1-1/4"	Ø6.7 mm	250/ctn	45.55 lbs / 20.66 Kg
2911-7444	Steel, Phosphate Plated	1-1/2"	Ø7 mm	150/ctn	31.32 lbs / 14.21 Kg



#### Delta & Ladder Buckles and J-Hook w/ bar for THORSTRAP® Webbing

Part Number	Buckle Type	Material	Size	Pkg. Qty.	Min. Break Strength (MBS)			Max. Securing Load* (MSL)			Weight per carton
					Lbf	Kgf	daN	Lbf	Kgf	daN	
2911-7445-1.25	Ladder	Steel, Zinc-plated	1-1/4"	50/ctn	8,377	3,800	3,728	4,189	1,900	1,864	25.98 lbs / 11.79 Kg
2911-7445-1.5	Ladder	Steel, Zinc-plated	1-1/2"	50/ctn	8,818	4,000	3,924	4,409	2,000	1,962	29.72 lbs / 13.48 Kg
2911-7445-1.625	Ladder	Steel, Zinc-plated	1-5/8"	50/ctn	11,023	5,000	4,905	5,511	2,500	2,452	31.87 lbs / 14.45 Kg
2911-7714	Delta	Steel, Zinc-plated	2"	50/ctn	11,023	5,000	4,905	5,511	2,500	2,452	32.07 lbs / 14.55 Kg
2911-7252-1.625	J-Hook	Steel, Zinc-plated	1-5/8"	50/ctn	11,023	5,000	4,905	5,511	2,500	2,452	53.1 lbs / 24.09 Kg

\*Safety factor is 2:1

#### Tensioner for THORSTRAP® Webbing

Part Number	Material	Size	Weight
2911-7138	Steel	Up to 2"	10.5 lbs



2911-7252



2911-7714



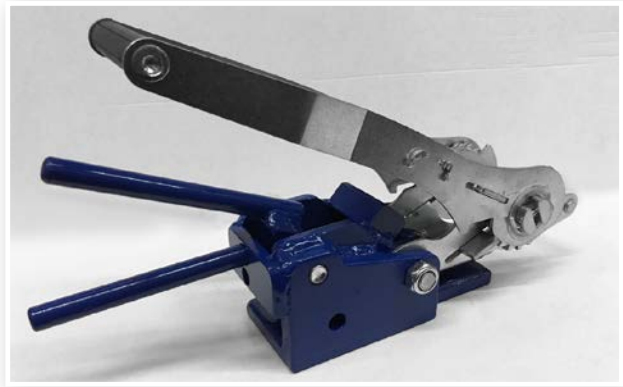
2911-7445

2911

# NOW! AVAILABLE!

## Buffers THORSTRAP® Ratchet Tensioner

2911-7138





**ANTI-THEFT DEVICES: 3200**  
**TARP & ROPE CONTROL: 3400**

**3200 ANTI-THEFT DEVICES**

**PAGE NUMBERS**

- 3201-1** WHEEL STUD / LUG NUT SECURITY SEALS (Indicative type)
- 3202-1 to -6** SECURITY SEALS:
- » High-Security Barrier Seals (Lock Rod Handle Lock, Door Lock, Locking Clamp)
  - » Bolt Security Seals (Class H, per ISO 17712)
  - » Steel Cable Security Seals (Class H, I & S per ISO 17712)
  - » Pull-Up Security Seals (Class I per ISO 17712)
  - » Strap Seals (Class I per ISO 17712)


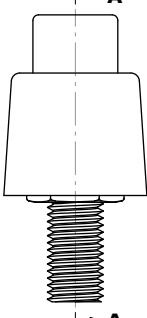
**3400 TARP & ROPE CONTROL**

**PAGE NUMBERS**

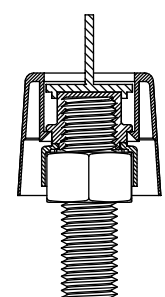
- 3403-1** TARP & ROPE HOOKS

**3200**



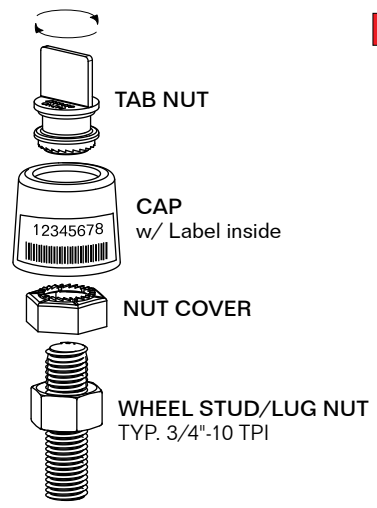



**TIGHTEN WITH TAB NUT.  
TURN UNTIL TAB BREAKS.  
USE GLOVES.**




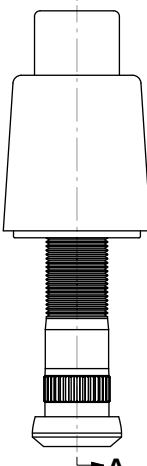
**SECTION A-A**

**MODEL 3201-1326**  
**FITS 3/4"-10 TPI  
WHEEL STUD/LUG NUT**

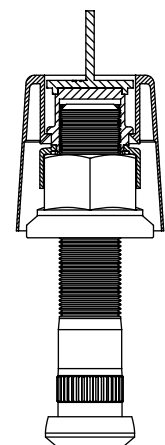


- MADE FROM HIGH-IMPACT POLYSTYRENE.
- BREAK-OFF TAB DESIGN ENSURES CONSISTENT CORRECT INSTALLATION.
- MORE SECURE ALSO ON SHORTER STUD THREADS.
- CAP IS TRANSLUCENT COLOR, ALLOWING INSIDE LABELS TO BE READ FROM OUTSIDE.
- DESIGNED TO BE NON-REMOVABLE, MUST BE BROKEN TO BE REMOVED.
- SERIALIZED NON-PEEL LABEL WITH BARCODE IS STANDARD.
- CLASS I (INDICATIVE).

**3201**

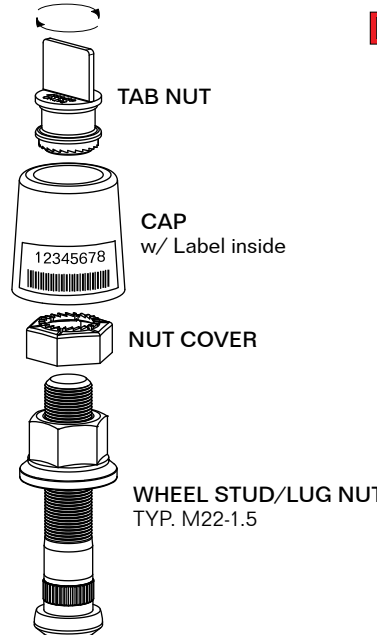



**TIGHTEN WITH TAB NUT.  
TURN UNTIL TAB BREAKS.  
USE GLOVES.**



**SECTION A-A**

**MODEL 3201-2988**  
**FITS M22-1.5  
WHEEL STUD/LUG NUT**



- MADE FROM HIGH-IMPACT POLYSTYRENE.
- BREAK-OFF TAB DESIGN ENSURES CONSISTENT CORRECT INSTALLATION.
- MORE SECURE ALSO ON SHORTER STUD THREADS.
- CAP IS TRANSLUCENT COLOR, ALLOWING INSIDE LABELS TO BE READ FROM OUTSIDE.
- DESIGNED TO BE NON-REMOVABLE, MUST BE BROKEN TO BE REMOVED.
- SERIALIZED NON-PEEL LABEL WITH BARCODE IS STANDARD.
- CLASS I (INDICATIVE).

3202

**CONTAINER & TRAILER  
LOCK ROD HANDLE LOCK KIT**  
w/ Key Lock, Reusable



- Prevents turning of the Lock Rod and drilling of the Handle Rivet
- Very easy to fit and lock w/ Key
- Lock Bolt spins and is too short for Bolt Cutters
- Ideal for Fleets and all Owner-operated Units

**COMPLETE SET** **MODEL 3202-2950**

**2 BRACKETS w/o LOCK** **MODEL 3202-2950-BRK**

**CYLINDER KEY LOCK ONLY** **MODEL 3202-2949**

**CLASS: H PACKAGING: 10 SETS / BOX**  
**3202-2950 WEIGHT: 3.38 LBS / SET**  
**3202-2949 WEIGHT: 1.19 LBS / SET**

**CONTAINER DOOR LOCK  
CLAMP ASSEMBLY**  
w/ Key Lock, Reusable



- Heavy-duty 5-reuseable lock rod clamp is secured w/ special key-operated Lock
- Secures one Lock Rod on each Door to a heavy-duty Flat Bar
- Lock Bolt spins and is too short for Bolt Cutters
- Ideal for Fleets and all Owner-operated Units

**COMPLETE SET** **MODEL 3202-2951**

**BRACKETS SET w/o LOCK** **MODEL 3202-2951-BRK**

**CYLINDER KEY LOCK ONLY** **MODEL 3202-2949**

**CLASS: H PACKAGING: 6 SETS / BOX**  
**3202-2951 WEIGHT: 5.29 LBS / SET**  
**3202-2949 WEIGHT: 1.19 LBS / SET**

**CONTAINER & TRAILER DOOR LOCKING CLAMP**  
w/ Locking Stud, Serial # Printed, One-Time Use

**MODEL 3202-2952**



- When extra security is required – Locking Bushing cannot be cut w/ Bolt Cutters
- Easy to fit and lock with minimum slack
- Removed by cutting the clamp w/ Power Tool or Torch
- Cannot be bent off w/ Crowbar or split w/ Freon

**CLASS: H**  
**PACKAGING: 10 SETS / BOX**  
**WEIGHT: 3.7 LBS / SET**



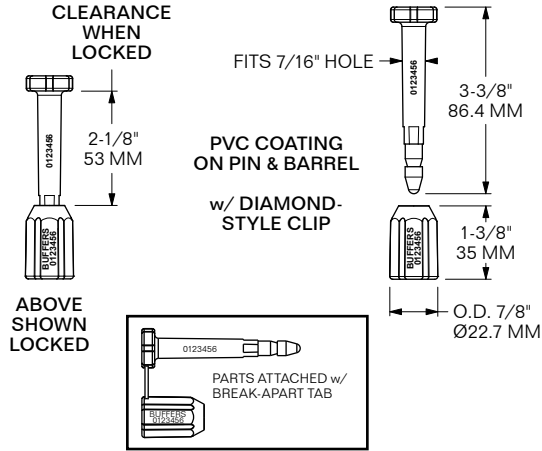
# BOLT SECURITY SEALS CLASS H, PER ISO 17712

**LIGHT BLUE MODEL 3202-2940-LB**

**WHITE MODEL 3202-2940-WH**

**YELLOW MODEL 3202-2940-YE**

**w/ ANTI-SPIN**



**CLASS: H**  
**PACKAGED: 250 / CARTON**  
**WEIGHT EA.: 0.16 LBS / 0.07 Kg**

**3202**

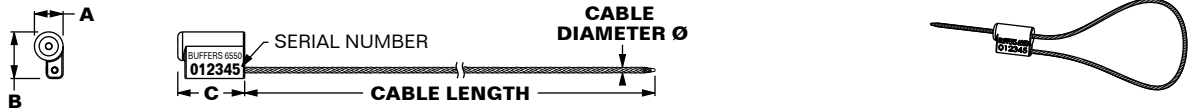




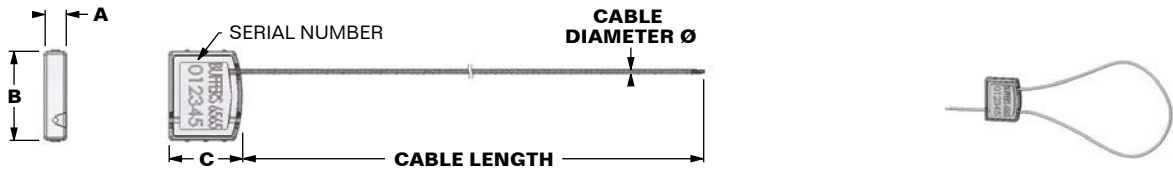
### PUSH-THROUGH CABLE SEAL

- SELF-LOCKING DESIGN THAT ALLOWS FOR SIZE-ADJUSTABLE LOOP.
- SERIAL NUMBER PRINTED ON BODY.
- GALVANIZED, FLEXIBLE CABLE.
- CARGO TAMPERING DISCOURAGED DUE TO CABLE THAT FRAYS WHEN CUT.

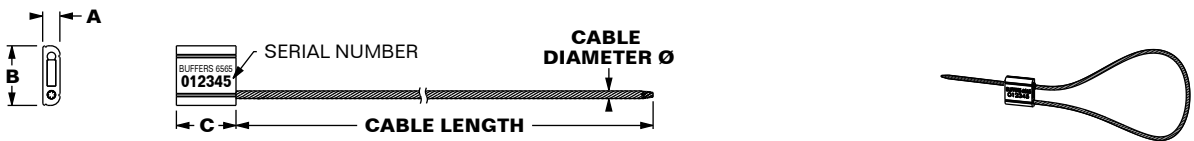
3202



MODEL	CLASS	BODY MATERIAL	CABLE DIAMETER Ø	CABLE LENGTH	A	B	C	PULL-APART STRENGTH	WEIGHT PER PC.	PCS./ BOX
3202-6550	I	METAL (green lock)	3/32" 2.5 MM	12" 305 MM	1/2" 12 MM	3/4" 19.5 MM	1-1/16" 27.3 MM	290 LBS 130 Kg	0.08 LBS 0.04 Kg	500



MODEL	CLASS	BODY MATERIAL	CABLE DIAMETER Ø	CABLE LENGTH	A	B	C	PULL-APART STRENGTH	WEIGHT PER PC.	PCS./ BOX
3202-6560	I	PLASTIC (white lock)	1/16" 1.6 MM	12" 305 MM	5/16" 7.5 MM	1-5/16" 34 MM	1-1/16" 27.5 MM	224 LBS 102 Kg	0.03 LBS 0.01 Kg	1,000



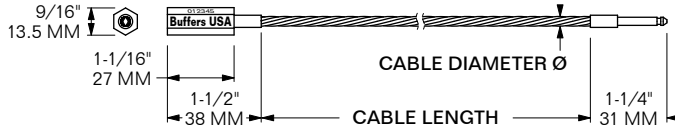
MODEL	CLASS	BODY MATERIAL	CABLE DIAMETER Ø	CABLE LENGTH	A	B	C	MINIMUM PULL-APART STRENGTH	WEIGHT PER PC.	PCS./ BOX
3202-6565 <b>SPECIAL ORDER ONLY</b>	H	METAL (blue lock)	9/64" 3.5 MM	12" 305 MM	5/16" 7.5 MM	1-1/32" 26 MM	1-1/32" 26 MM	2,755 LBS 1,250 Kg	0.07 LBS 0.03 Kg	500
3202-6565-RD	H	METAL (red lock)	9/64" 3.5 MM	12" 305 MM	5/16" 7.5 MM	1-1/32" 26 MM	1-1/32" 26 MM	2,755 LBS 1,250 Kg	0.07 LBS 0.03 Kg	500

### FIXED-LOCK CABLE SEAL

- HIGH-STRENGTH, GALVANIZED, FLEXIBLE CABLE.
- SERIAL NUMBERS PRINTED ON HEX BODY.
- MANY POSSIBLE VARIATIONS TO SECURE DOOR RODS & LATCHES.
- CORROSION-RESISTANT, POLY-COATED, METAL LOCK BODY.



C-TPAT & ISO 17712:2013  
Compliant



MODEL	CLASS	BODY MATERIAL	CABLE DIAMETER Ø	CABLE LENGTH	MIN. PULL-APART STRENGTH	WEIGHT PER PC.	PCS./ BOX
3202-2154	S	METAL	3/16" 4.8 MM	12" 305 MM	680 LBS 310 Kg	0.07 LBS 0.03 Kg	250
3202-2944	S	METAL	3/16" 4.8 MM	16" 406 MM	680 LBS 310 Kg	0.18 LBS 0.08 Kg	250
3202-2945	I	METAL	1/16" 1.8 MM	48" 1,219 MM	240 LBS 110 Kg	0.06 LBS 0.03 Kg	300

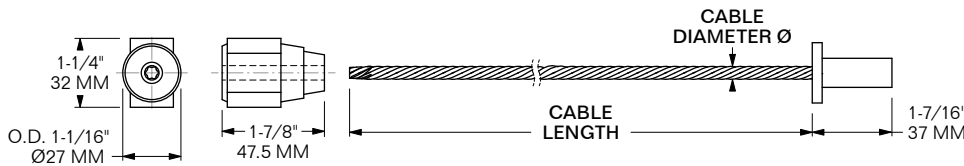
3202

### PULL-TIGHT, FIXED-LOCK CABLE SEAL

- HEAVY-DUTY, SELF-LOCKING DESIGN w/ FLEXIBLE CABLE.
- SLIDING LOCK ELIMINATES ANY SLACK BETWEEN LOCKING POINTS.
- DOES NOT FORM A LOOP; DESIGNED TO LOCK TWO OR MORE LATCHES.
- SERIAL NUMBER PRINTED ON PUSH-ON LOCK BODY.



C-TPAT & ISO 17712:2013  
Compliant



MODEL	CLASS	BODY MATERIAL	CABLE DIAMETER Ø	CABLE LENGTH	MIN. PULL-APART STRENGTH	WEIGHT PER PC.	PCS./ BOX
3202-2946	H	METAL	1/4" 6.4 MM	45" 1,143 MM	4,400 LBS 2,000 Kg	0.75 LBS 0.34 Kg	50

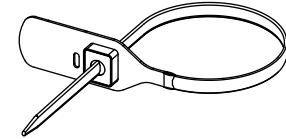
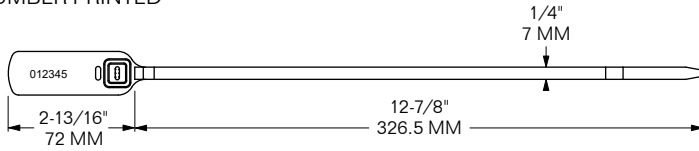
**3202**

**MODEL 3202-6352**

**SPECIAL ORDER ONLY w/ BARCODE**

**MODEL 3202-6352-UPC**

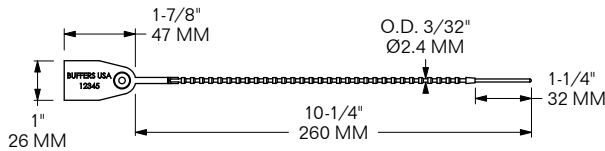
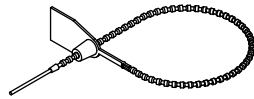
WITH SERIAL NUMBER PRINTED



**CLASS: I**  
**PULL-APART STRENGTH: 88 LBS / 40 Kg**  
**MATERIAL: PLASTIC COLOR: RED**  
**PACKAGED: 1,000 PER CARTON**  
**WEIGHT EA. PC.: 0.011 LBS / 0.005 Kg**

**MODEL 3202-6562**

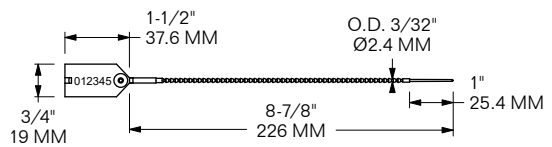
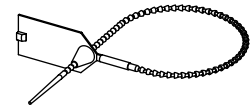
WITH SERIAL NUMBER PRINTED



**CLASS: I**  
**PULL-APART STRENGTH: 44 LBS / 20 Kg**  
**MATERIAL: PLASTIC COLOR: ORANGE**  
**PACKAGED: 1,000 PER CARTON (100/bag)**  
**WEIGHT EA. PC.: 0.005 LBS / 0.002 Kg**

**MODEL 3202-6563**

WITH SERIAL NUMBER PRINTED



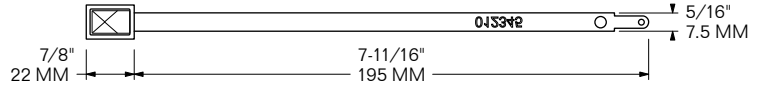
**CLASS: I**  
**PULL-APART STRENGTH: 40 LBS / 18 Kg**  
**MATERIAL: PLASTIC COLOR: ORANGE**  
**PACKAGED: 5,000 PER CARTON (100/bag)**  
**WEIGHT EA. PC.: 0.004 LBS / 0.002 Kg**

ALL w/ SERIAL NUMBER EMBOSSED

**FOR MODEL: 3202-6539**

**CLASS: I**  
**PULL-APART STRENGTH:** 135 LBS / 61 Kg  
**MATERIAL:** STEEL, ZINC-PLATED  
**PACKAGED:** 3,000 PER CARTON  
**WEIGHT EA. PC.:** 0.015 LBS / 0.006 Kg

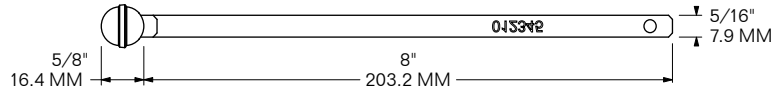
**FLAT METAL STRAP SEAL-TYPE** **MODEL 3202-6539**



**FOR MODEL: 3202-6977**

**CLASS: I**  
**PULL-APART STRENGTH:** 216 LBS / 98 Kg  
**MATERIAL:** STEEL, ZINC-PLATED  
**PACKAGED:** 1,000 PER CARTON  
**WEIGHT EA. PC.:** 0.02 LBS / 0.01 Kg

**FLAT METAL STRAP SEAL-TYPE** **MODEL 3202-6977**

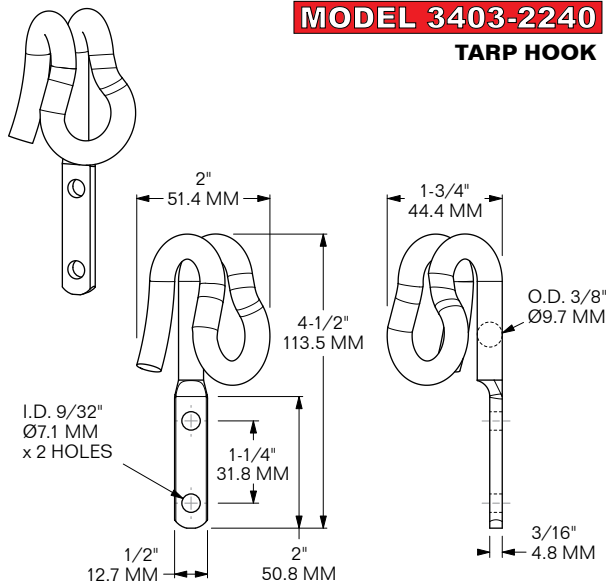


**3202**

**3403**

**MODEL 3403-2240**

**TARP HOOK**

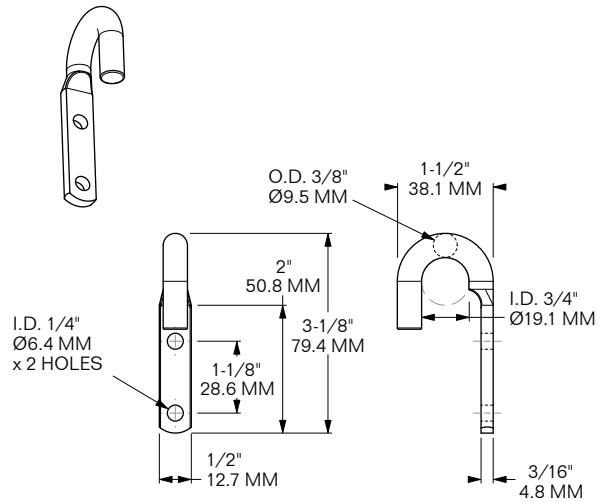


**SUB FOR:** MARION BODY WORKS 25200064,  
OSHKOSH 3511396 & RIDGE 106651  
**MATERIAL:** CARBON STEEL  
**FINISH:** YELLOW CHROMATE  
**WEIGHT:** 0.32 LBS / 145 GRAMS

**SPECIAL ORDER ONLY**

**MODEL 3403-2772**

**SINGLE ROPE HOOK**



**MATERIAL:** CARBON STEEL  
**FINISH:** YELLOW ZINC-PLATED  
**WEIGHT:** 0.14 LBS / 62 GRAMS



TABLE OF CONTENTS  
RUBBER PRODUCTS: **4500**

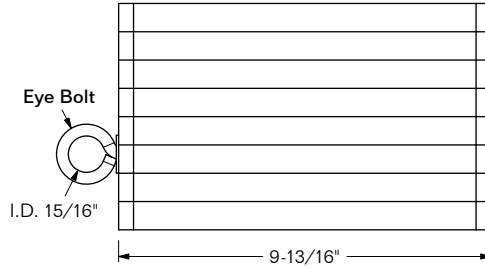
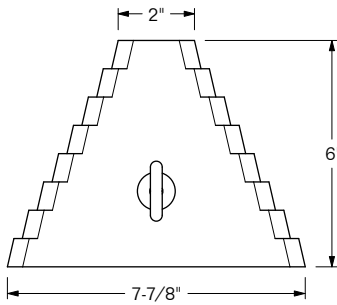
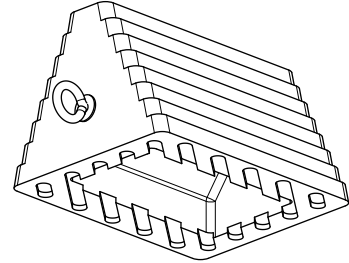
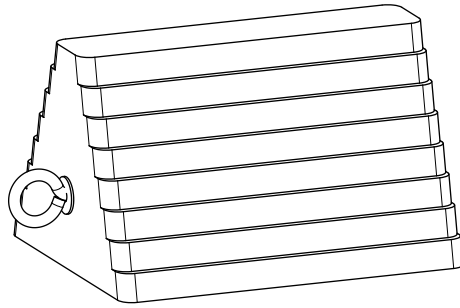
**PAGE NUMBERS**

- 4502-1** WHEEL CHOCKS (Black SBR Rubber w/ Steel Eye Bolt)
- 4503-1** PROTECTIVE RUBBER MATS (RO-RO & Tie-Down Chain Protection / Black Industrial Rubber)

**4500**

**MODEL 4502-8393**

**SINGLE WHEEL CHOCK**  
 w/ Steel Eye Bolt

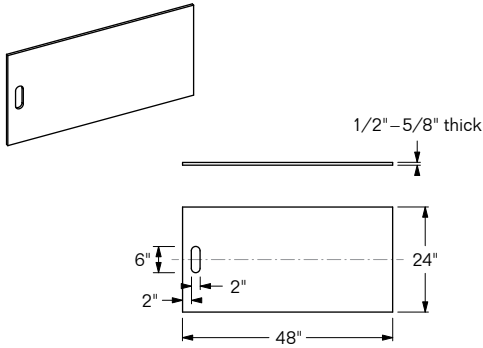


**MATERIAL:** RUBBER (SBR)  
**COLOR:** BLACK  
**WEIGHT:** 10.2 LBS / 4.63 Kg

**4502**

**MODEL 4503-6761**

**RO-RO MAT, 48" x 24"**  
w/ Handle hole



**MATERIAL:** REINFORCED INDUSTRIAL RUBBER, USED  
**COLOR:** BLACK **WEIGHT:** 25.5 LBS

**MODEL 4503-6762-8**

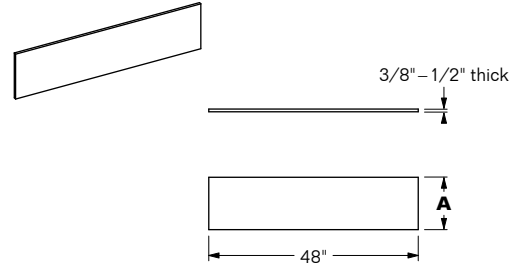
**SPECIAL ORDER ONLY**

**MODEL 4503-6762-12**

**SPECIAL ORDER ONLY**

**MODEL 4503-6762-16**

**TIE-DOWN CHAIN PROTECTION**



MODEL	A	WEIGHT
4503-6762-8	8"	8.7 LBS
4503-6762-12	12"	13 LBS
4503-6762-16	16"	17.4 LBS

**MATERIAL:** REINFORCED INDUSTRIAL RUBBER, USED  
**COLOR:** BLACK

**4503**





# LASHING GEAR: TWISTLOCKS, CONES, STACKERS & LEVELERS **5001-5006**

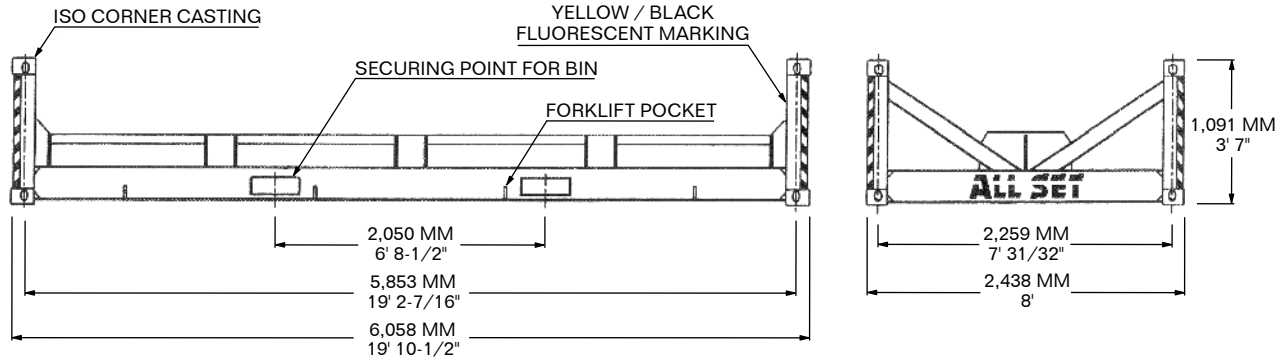
**PAGE NUMBERS**

<b>5001-1 to -2</b>	20' STORAGE FLATRACKS
<b>5001-3 to -4</b>	40' STORAGE FLATRACKS
<b>5001-5</b>	STORING BINS for Flatracks
<b>5002-1 to -8</b>	SEMI-AUTOMATIC TWISTLOCKS (SATs)
<b>5002-9 to -10</b>	MIDLOCKS
<b>5002-11 to -14</b>	C5AM & C5AM-DF SERVICE INSTRUCTIONS
<b>5003-1</b>	SERVICING EQUIPMENT for SATs & Turnbuckles
<b>5003-2 to -4</b>	EMERGENCY TOOLS for SATs & Turnbuckles
<b>5004-1</b>	UNLOCKING POLES (Fixed-length type)
<b>5004-2</b>	UNLOCKING POLES (Extendable, Quick-coupling type w/ Push-button)
<b>5004-3</b>	UNLOCKING POLES (Extendable, Spring-button type, standard extension length)
<b>5004-4</b>	UNLOCKING POLES (Extendable, Spring-button type, short extension length)
<b>5004-5</b>	UNLOCKING POLES for KOEI SATs
<b>5004-6</b>	UNLOCKING POLE HEADS
<b>5004-7</b>	UNLOCKING POLE (Manual Twistlock type) & T-HANDLES for Unlocking Poles
<b>5005-1 to -3</b>	MANUAL TWISTLOCKS
<b>5005-4 to -5</b>	DOVETAIL TWISTLOCKS
<b>5005-6</b>	WELD-DOWN TWISTLOCKS
<b>5005-7</b>	BREECH BASE TWISTLOCKS
<b>5006-1 to -10</b>	STACKING CONES
<b>5006-11 to -17</b>	HANGING STACKERS
<b>5006-18</b>	TERMINAL STACKER
<b>5006-19</b>	CONTAINER HEIGHT EXTENSION STACKER
<b>5006-20</b>	CONTAINER HEIGHT EXTENDERS
<b>5006-21</b>	DOCK-FITTED WIDTH EXTENDER / TERMINAL PRESSURE STACKER
<b>5006-22</b>	CONTAINER LEVELING STACKING CONE

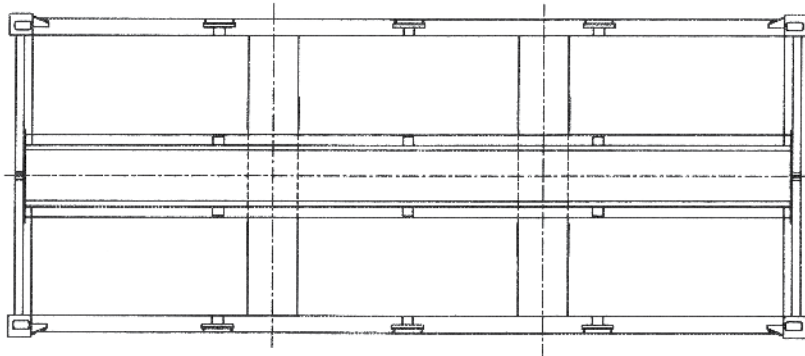




**MODEL 5001-E-17**



**5001**



**DESIGNED FOR BIN E-16**  
SIZE: 52" L x 34-1/4" W x 31" H

OWNER TO GIVE CONTAINER NUMBER.  
CSC APPROVED.  
TO BE LIFTED WITH 20' CONTAINER SPREADER.

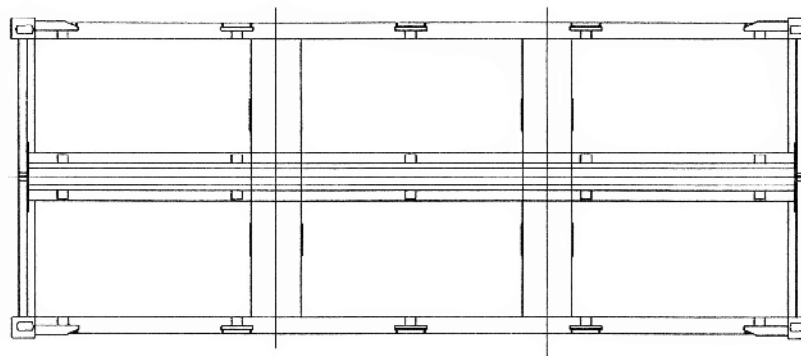
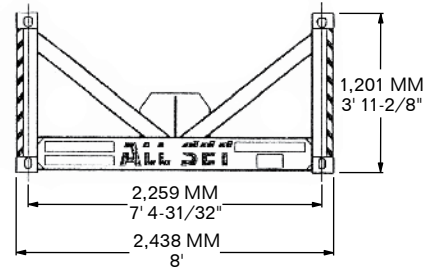
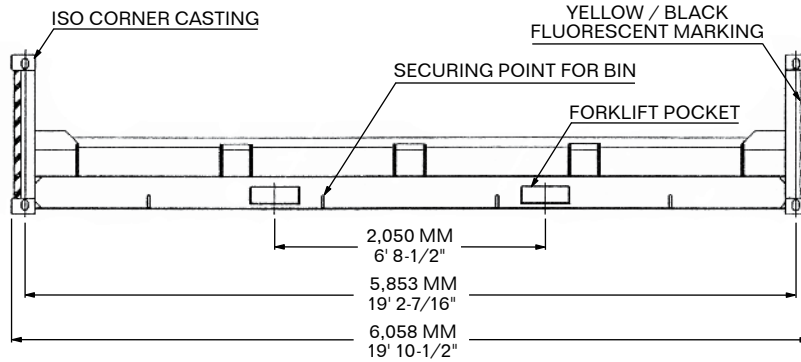
**MAX. GROSS WEIGHT:** 20,000 Kg / 44,100 LBS  
**TARE:** 1,550 Kg / 3,419 LBS  
**CAPACITY:** 8 EA. E-16 BINS  
 MAX 17,100 Kg PRODUCTS INSIDE THE BINS  
 MAX 250 PCS C5AM-DF PER BIN = 2,000 / RACK

**MATERIAL:** MILD STEEL  
**FINISH:** HOT-DIP GALVANIZED (HDG)





**MODEL 5001-E-17-MAERSK**



**DESIGNED FOR BIN**  
**5001-E-16-MAERSK**  
SIZE: 47-1/4" L x 39-3/8" W x 31-1/2" H  
(1,200 MM x 1,000 MM x 800 MM)

OWNER TO GIVE CONTAINER NUMBER.  
CSC APPROVED.  
TO BE LIFTED WITH 20' CONTAINER SPREADER.

**MAX. GROSS WEIGHT:** 20,000 Kg / 44,100 LBS  
**TARE:** 1,480 Kg / 3,263 LBS  
**CAPACITY:** 8 EA. E-16-MAERSK BINS  
MAX 17,100 Kg PRODUCTS INSIDE THE BINS  
MAX 280 PCS C5AM-DF PER BIN = 2,240 PCS / E-17-MAERSK

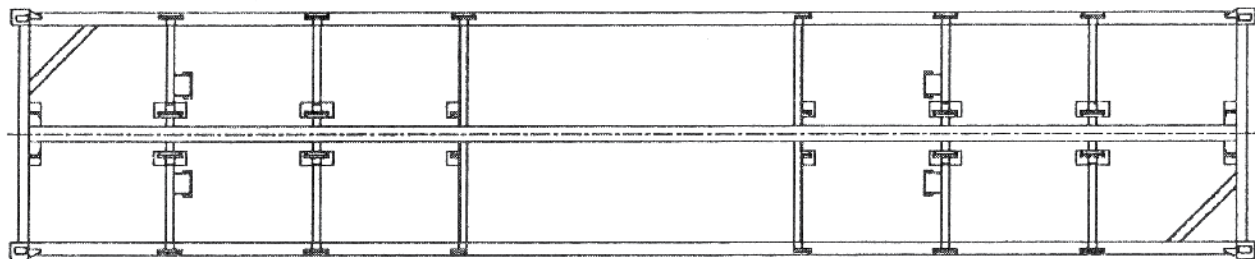
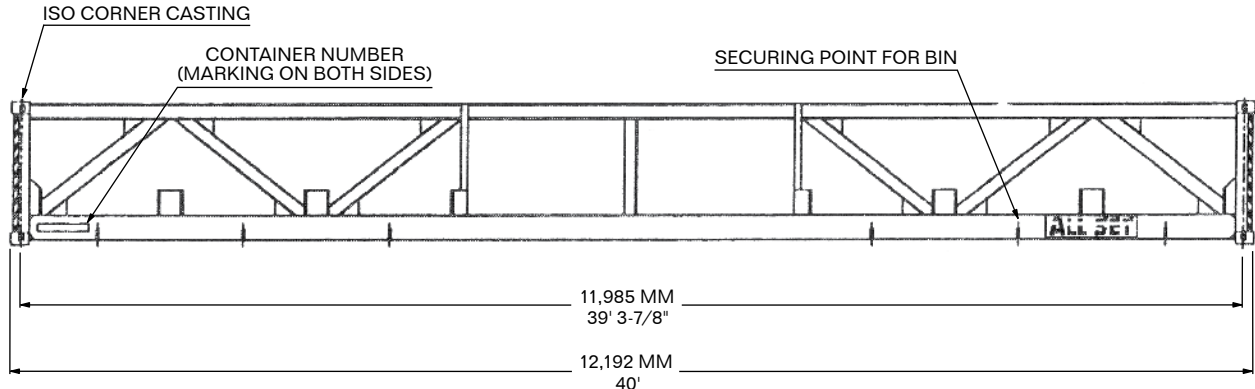
**MATERIAL:** MILD STEEL  
**FINISH:** HOT-DIP GALVANIZED (HDG)

**5001**

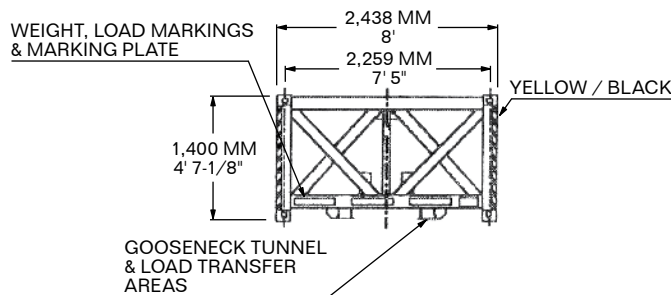




**MODEL 5001-E-182**



**DESIGNED FOR BIN E-16**  
SIZE: 52" L x 34-1/4" W x 31" H



OWNER TO GIVE CONTAINER NUMBER.  
TO BE LIFTED WITH 40' CONTAINER SPREADER.

**MAX. GROSS WEIGHT:** 27,000 Kg / 59,535 LBS  
**TARE:** 2,800 Kg / 6,174 LBS  
**CAPACITY:** 12 EA. E-16 BINS  
 MAX 22,200 Kg PRODUCTS INSIDE THE BINS  
 MAX 250 PCS C5AM-DF PER BIN = 3,000 / RACK

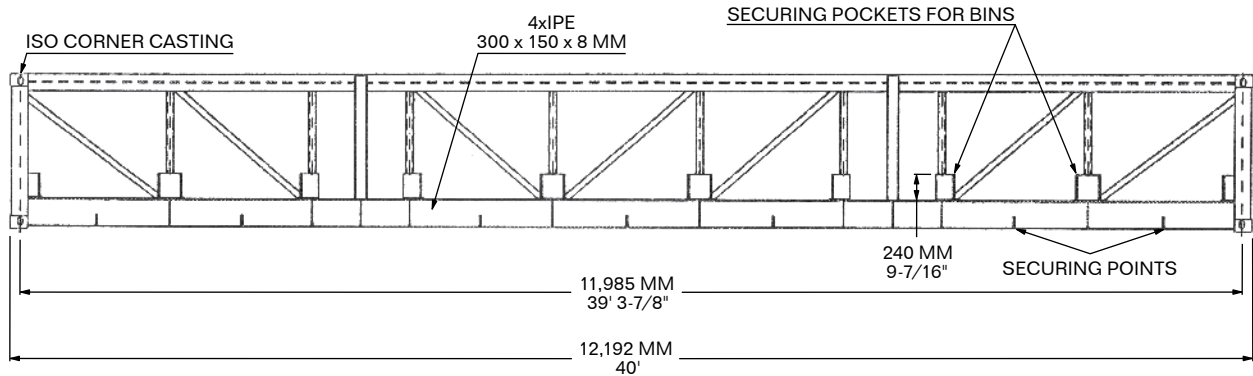
**MATERIAL:** MILD STEEL  
**FINISH:** HOT-DIP GALVANIZED (HDG)

**5001**

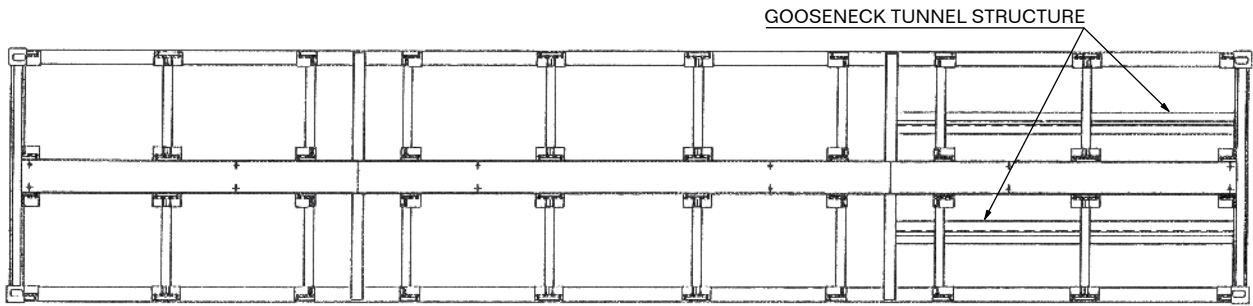




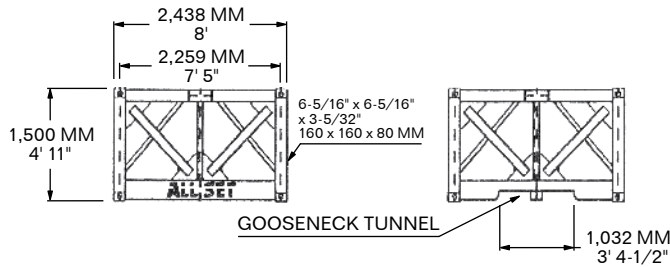
**MODEL 5001-E-18**



**5001**



**DESIGNED FOR BIN E-16**  
SIZE: 52" L x 34-1/4" W x 31" H



OWNER TO GIVE CONTAINER NUMBER.  
TO BE LIFTED WITH 40' CONTAINER SPREADER.

**MAX. GROSS WEIGHT:** 30,480 Kg / 67,137 LBS

**TARE:** 4,800 Kg / 10,582 LBS

**CAPACITY:** 14 EA. E-16 BINS

MAX 23,350 Kg PRODUCTS INSIDE THE BINS

MAX 250 PCS C5AM-DF PER BIN = 3,500 / RACK

**MATERIAL:** MILD STEEL

**FINISH:** HOT-DIP GALVANIZED (HDG)

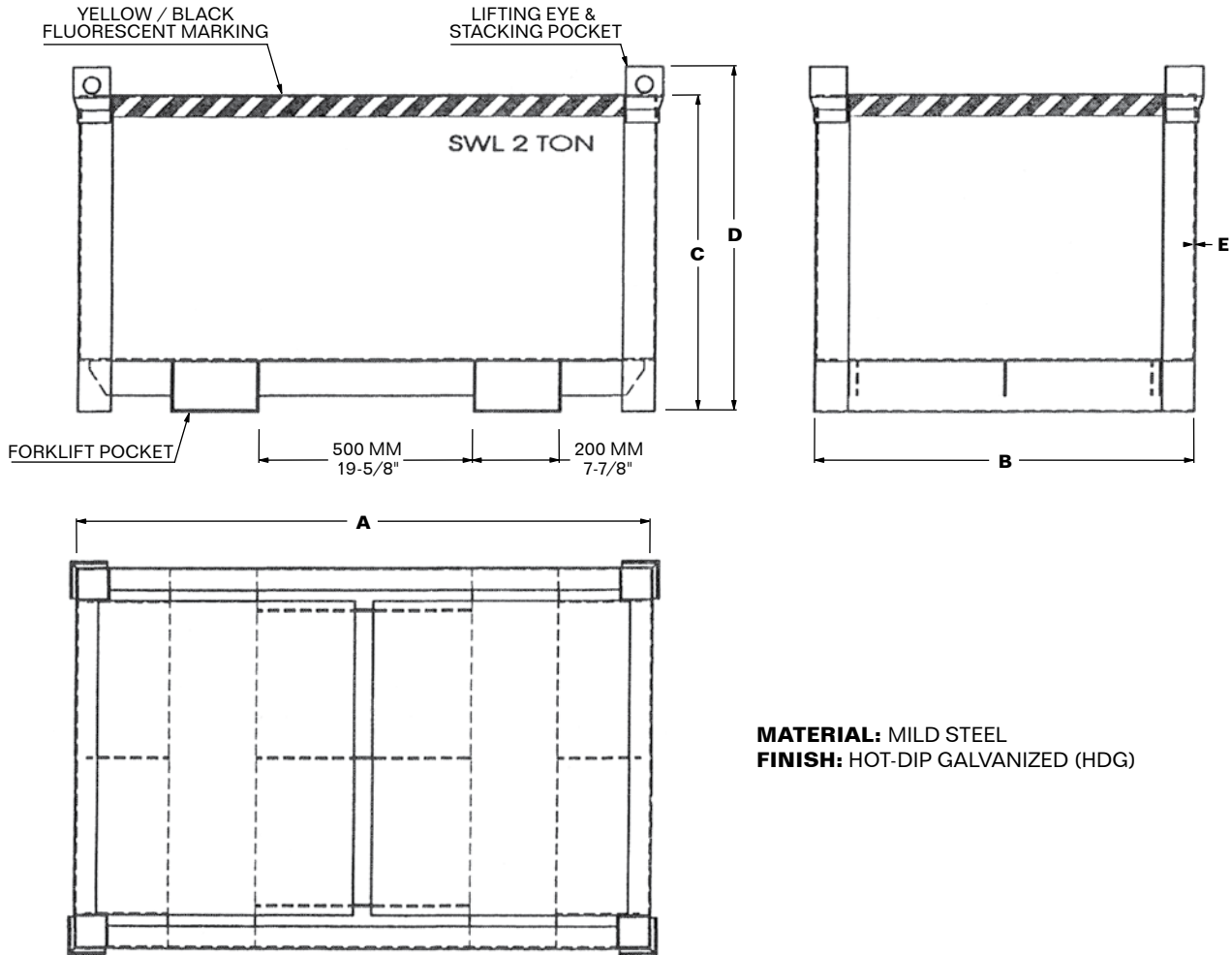




**MODEL 5001-E-16**

**MODEL 5001-SB-8/1**

**MODEL 5001-E-16-MAERSK**



**MATERIAL:** MILD STEEL  
**FINISH:** HOT-DIP GALVANIZED (HDG)

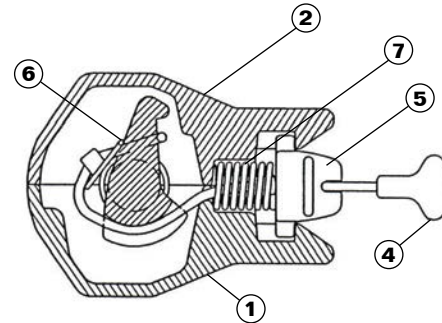
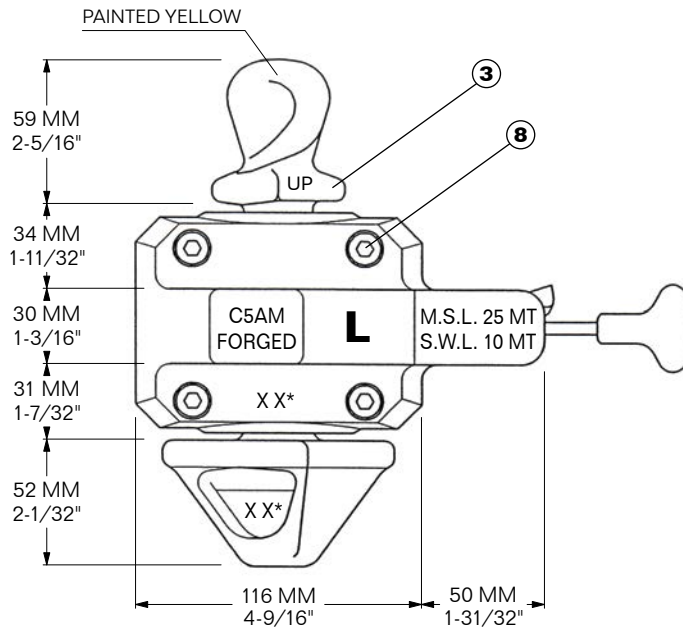
**SIZE TABLE**

MODEL	A	B	C	D	E	CUBE SIZE M <sup>3</sup> / CUFT	EMPTY WEIGHT Kg / LBS	C5AM-DF TWISTLOCK CAPACITY
<b>5001-E-16</b>	1,320 MM 52"	870 MM 34-1/4"	725 MM 28-1/2"	790 MM 31"	3.20 MM 1/8"	0.70 25	164 Kg 362 LBS	250
<b>5001-SB-8/1</b>	1,320 MM 52"	1,090 MM 43"	800 MM 31-1/2"	855 MM 33-11/16"	3.20 MM 1/8"	1.00 35	169 Kg 373 LBS	350
<b>5001-E-16-MAERSK</b>	1,200 MM 47-1/4"	1,000 MM 39-3/8"	800 MM 31-1/2"	900 MM 35-3/8"	3.00 MM 1/8"	0.8 28	155 Kg 342 LBS	280





**MODEL 5002-C5AM-DF**  
**FORGED HOUSING**



Assembled w/ 4 ea. Cap Screws;  
Bolts to be tightened to 26.6 Nm.

**MIN. B.L. TENSION:** 500 kN  
**MIN. B.L. SHEAR:** 420 kN  
**MIN. B.L. COMPRESSION:** 2,000 kN

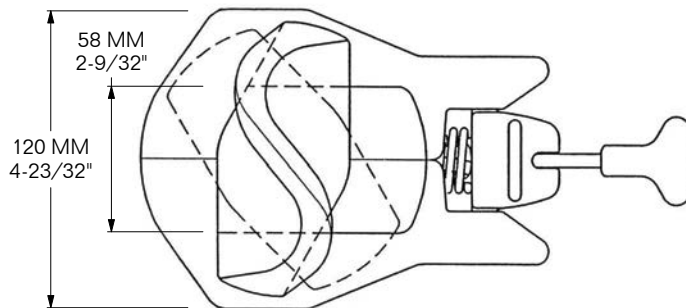
**MAX. SECURING LOAD (MSL):**  
25 M. Ton (based on safety factor of 2:1)

**FINISH:** HOT-DIP GALVANIZED (HDG)  
**WEIGHT:** 7 Kg / 15.4 LBS w/ 8 MM BOLTS

\* XX = YEAR & MONTH NUMBERS

APM #344990

	SAFETY FACTOR	WLL
FOR LIFT	5 : 1	10 M. Ton
FOR LASHING	2 : 1	25 M. Ton



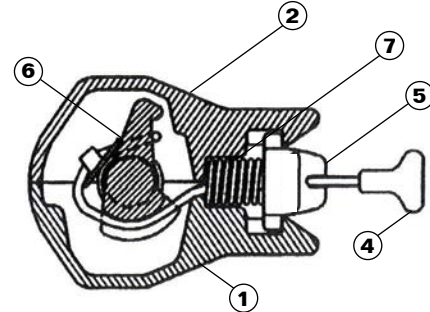
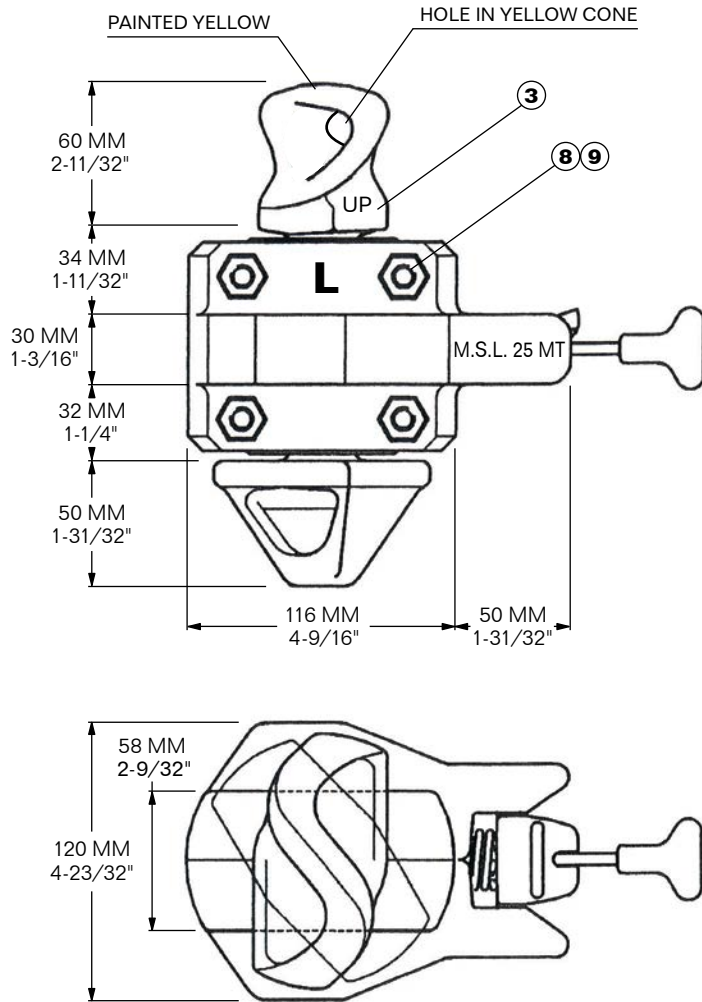
5002

ITEM	QTY.	MODEL	DESCRIPTION	WEIGHT	
1A	1	<b>5002-C5AM-DF-1/8-1181540</b>	HOUSING HALF, LEFT for 8 MM bolts	1.8 Kg	3.95 LBS
1B	1	<b>5002-C5AM-DF-1/10</b> (1131112)	HOUSING HALF, LEFT for 10 MM bolts	2.01 Kg	4.43 LBS
2A	1	<b>5002-C5AM-DF-2/8-1181541</b>	HOUSING HALF, RIGHT for 8 MM bolts (threaded)	1.8 Kg	3.95 LBS
2B	1	<b>5002-C5AM-DF-2/10</b> (1131112)	HOUSING HALF, RIGHT for 10 MM bolts (threaded)	1.95 Kg	4.3 LBS
3 & 6	1	<b>5002-C5AM-DF-3-6-1120918</b>	STEM w/ TWIST SPRING	2.77 Kg	6.1 LBS
4	1	<b>5002-C5AM-DF-4-1120921</b>	WIRE HANDLE	0.12 Kg	0.27 LBS
5	1	<b>5002-C5AM-DF-5-1120917</b>	HANDLE GUIDE	0.11 Kg	0.3 LBS
7	1	<b>5002-C5AM-DF-7-1120913</b>	COMPRESSION SPRING	0.05 Kg	0.11 LBS
8A	4	<b>5002-C5AM-DF-8-1120912</b>	CAP SCREW, 8 x 45	0.09 Kg	0.2 LBS
8B	4	<b>5002-C5AM-DF-8-9-1198376</b>	CAP SCREW, 10 x 45	0.12 Kg	0.26 LBS





**MODEL 5002-C5AM/DF**  
**CAST STEEL HOUSING**



Assembled w/ 4 ea. Hex Bolts & Nuts;  
Bolts to be tightened to 74 Nm.

**5002**

**MIN. B.L. TENSION:** 500 kN  
**MIN. B.L. SHEAR:** 420 kN  
**MIN. B.L. COMPRESSION:** 2,000 kN

**MAX. SECURING LOAD (MSL):**  
25 M. Ton (based on safety factor of 2:1)

**FINISH:** HOT-DIP GALVANIZED (HDG)  
**WEIGHT:** 5.86 Kg / 12.93 LBS

ITEM	QTY.	MODEL	DESCRIPTION	WEIGHT	
1	1	<b>5002-C5AM/DF-1/10</b>	HOUSING HALF, LEFT w/ HEX NUT CAVITY	1.48 Kg	3.26 LBS
2	1	<b>5002-C5AM/DF-2/10</b>	HOUSING HALF, RIGHT	1.37 Kg	3.02 LBS
3 & 6	1	<b>5002-C5AM/DF-3/6</b>	STEM KIT w/ TWIST SPRING	2.77 Kg	6.1 LBS
4	1	<b>5002-C5AM/DF-4</b>	WIRE HANDLE	0.12 Kg	0.27 LBS
5	1	<b>5002-C5AM/DF-5</b>	HANDLE GUIDE	0.11 Kg	0.3 LBS
7	1	<b>5002-C5AM/DF-7</b>	COMPRESSION SPRING	0.05 Kg	0.11 LBS
8	4	<b>5002-4744-G12.9</b>	HEX BOLT, M10 x 40	0.04 Kg	0.09 LBS
9	4	<b>1110-4521</b>	HEX NUT, M10 w/ NYLON INSERT	0.01 Kg	0.02 LBS

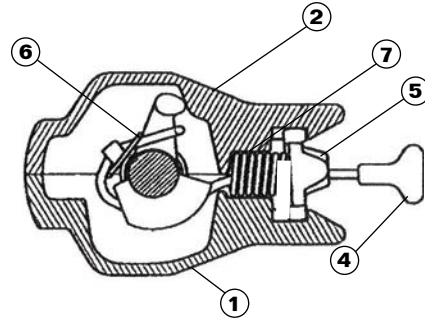
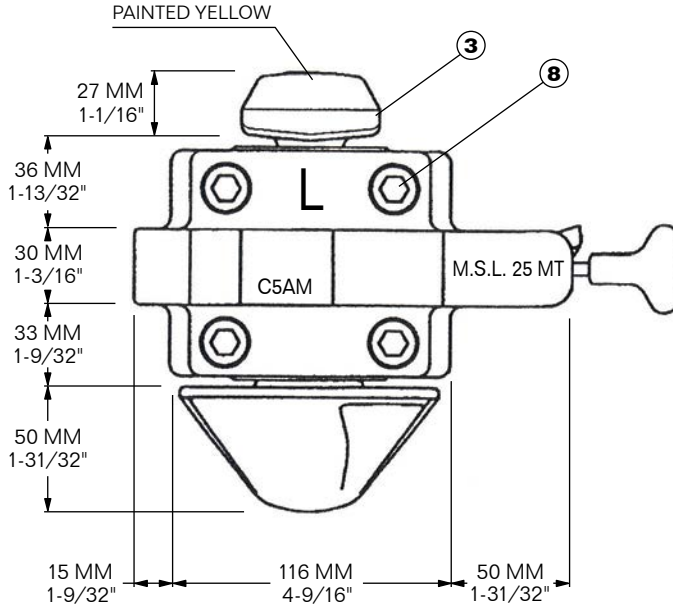






**DISCONTINUED:**  
Shown for spare parts only.

**MODEL 5002-C5AM**  
**FORGED HOUSING**

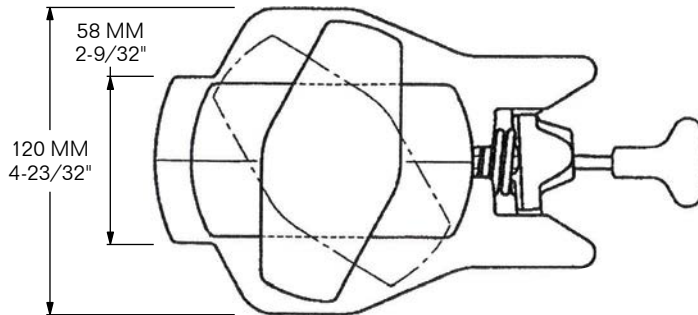


Assembled w/ 4 ea. Cap Screws;  
Bolts to be tightened to 47 Nm.

**MIN. B.L. TENSION:** 500 kN  
**MIN. B.L. SHEAR:** 420 kN  
**MIN. B.L. COMPRESSION:** 2,000 kN

**MAX. SECURING LOAD (MSL):**  
25 M. Ton (based on safety factor of 2:1)

**FINISH:** HOT-DIP GALVANIZED (HDG)  
**WEIGHT:** 6.8 Kg / 15 LBS



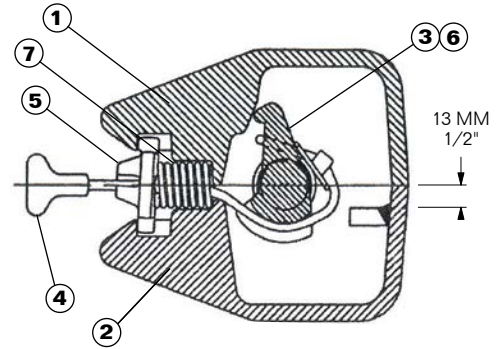
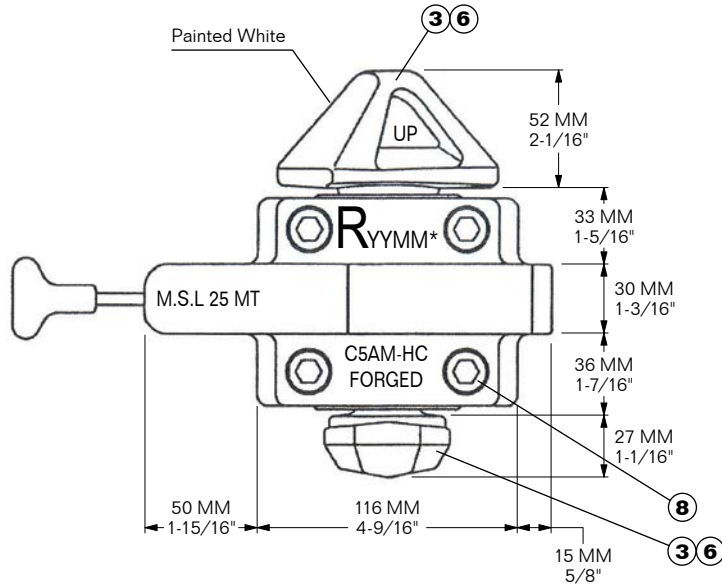
5002

ITEM	QTY.	MODEL	DESCRIPTION	WEIGHT	
1	1	<b>5002-C5AM-DF-1/10</b>	HOUSING HALF, LEFT	1.95 Kg	4.3 LBS
2	1	<b>5002-C5AM-DF-2/10</b>	HOUSING HALF, RIGHT, THREADED	1.95 Kg	4.3 LBS
3 & 6	1	<b>5002-C5AM-3-6</b>	STEM w/ TWIST SPRING	2.31 Kg	5.1 LBS
4	1	<b>5002-C5AM-DF-4</b>	WIRE HANDLE	0.12 Kg	0.27 LBS
5	1	<b>5002-C5AM-5</b>	HANDLE GUIDE	0.1 Kg	0.22 LBS
7	1	<b>5002-C5AM-DF-7</b>	COMPRESSION SPRING	0.05 Kg	0.11 LBS
8	4	<b>5002-C5AM-DF-8-9</b>	HEX BOLT, M10 x 45	0.12 Kg	0.26 LBS

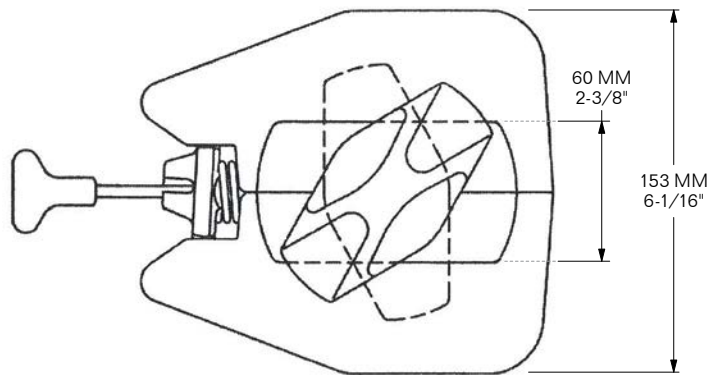




**MODEL 5002-C5AM-HC-1120909**  
**MAERSK TYPE, FORGED HOUSING**



Assembled w/ 4 ea. Cap Screws;  
 Bolts to be tightened to 74 Nm.



5002

**MIN. B.L. TENSION:** 500 kN  
**MIN. B.L. SHEAR:** 420 kN  
**MIN. B.L. COMPRESSION:** 2,000 kN

**MAX. SECURING LOAD (MSL):**  
 25 M. Ton (based on safety factor of 2:1)

**FINISH:** HOT-DIP GALVANIZED (HDG)  
**WEIGHT:** 7.26 Kg / 16 LBS

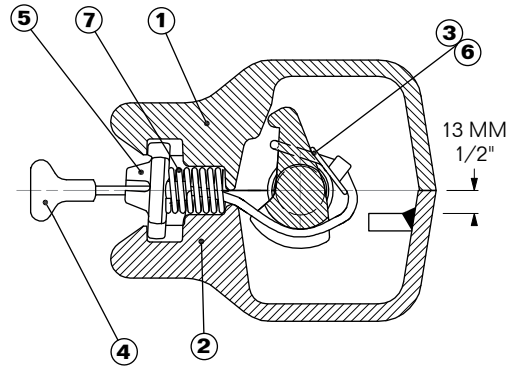
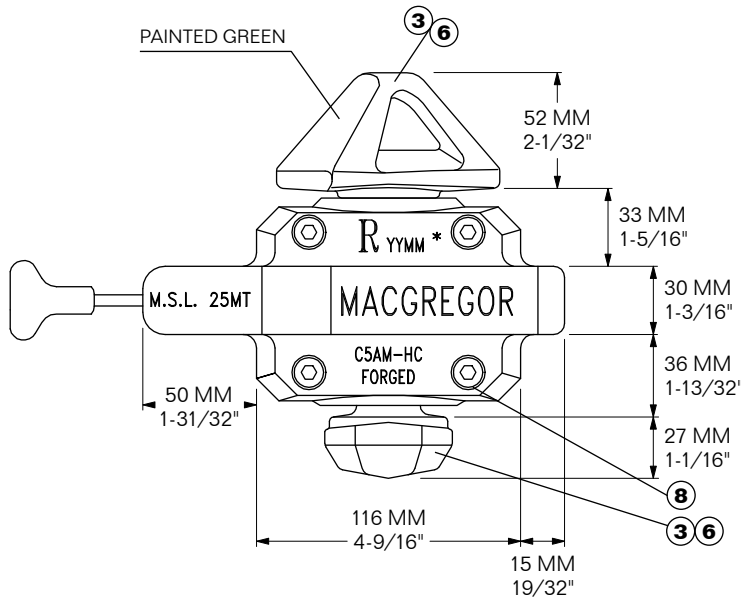
\* YYMM = YEAR & MONTH NUMBERS

APM #329160

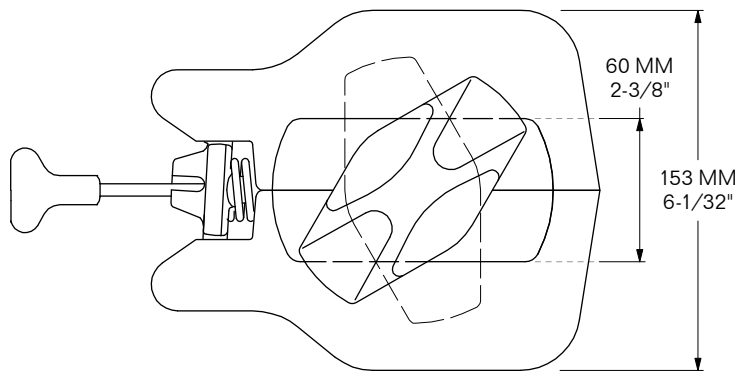
ITEM	QTY.	MODEL	DESCRIPTION	WEIGHT	
1	1	<b>5002-C5AM-HC-1-400027347</b>	Housing Half (left), threaded	2.68 Kg	5.9 LBS
2	1	<b>5002-C5AM-HC-2-400027348</b>	Housing Half (right), non-threaded	2.68 Kg	5.35 LBS
3 & 6	1	<b>5002-C5AM-HC-3-6-K103874</b>	Stem Kit w/ Flat Head & Twist Spring	2.31 Kg	5.1 LBS
4	1	<b>5002-C5AM-DF-4-1120921</b>	Wire Handle	0.12 Kg	0.27 LBS
5	1	<b>5002-C5AM-DF-5-1120917</b>	Handle Guide	0.1 Kg	0.22 LBS
7	1	<b>5002-C5AM-DF-7-1120913</b>	Compression Spring	0.05 Kg	0.11 LBS
8	4	<b>5002-C5AM-DF-8-9-1198376</b>	Cap Screw w/ serration, M10 x 45, Gr. 12.9	0.12 Kg	0.26 LBS



**MODEL 5002-C5AM-HC-1120911**  
**STANDARD TYPE, FORGED HOUSING**



Assembled w/ 4 ea. Cap Screws;  
Bolts to be tightened to 74 Nm.



**MIN. B.L. TENSION:** 500 kN  
**MIN. B.L. SHEAR:** 420 kN  
**MIN. B.L. COMPRESSION:** 2,000 kN

**MAX. SECURING LOAD (MSL):**  
25 M. Ton (based on safety factor of 2:1)

**FINISH:** HOT-DIP GALVANIZED (HDG)  
**WEIGHT:** 7.26 Kg / 16 LBS

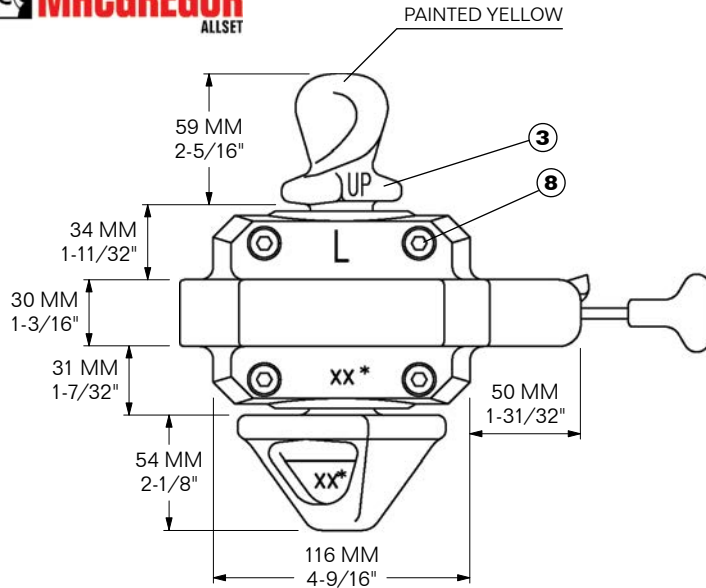
\* YYMM = YEAR & MONTH NUMBERS

ITEM	QTY.	MODEL	DESCRIPTION	WEIGHT	
1	1	<b>5002-C5AM-HC-1-400027345</b>	HOUSING HALF, LEFT, THREADED	2.68 Kg	5.9 LBS
2	1	<b>5002-C5AM-HC-2-400027346</b>	HOUSING HALF, RIGHT	2.68 Kg	5.9 LBS
3 & 6	1	<b>5002-C5AM-HC-3-6</b>	STEM w/ TWIST SPRING	2.31 Kg	5.1 LBS
4	1	<b>5002-C5AM-DF-4</b>	WIRE HANDLE	0.12 Kg	0.27 LBS
5	1	<b>5002-C5AM-DF-5</b>	HANDLE GUIDE	0.1 Kg	0.22 LBS
7	1	<b>5002-C5AM-DF-7</b>	COMPRESSION SPRING	0.05 Kg	0.11 LBS
8	4	<b>5002-C5AM-DF-8-1120912</b>	CAP SCREW, 8 x 45	0.1 Kg	0.22 LBS

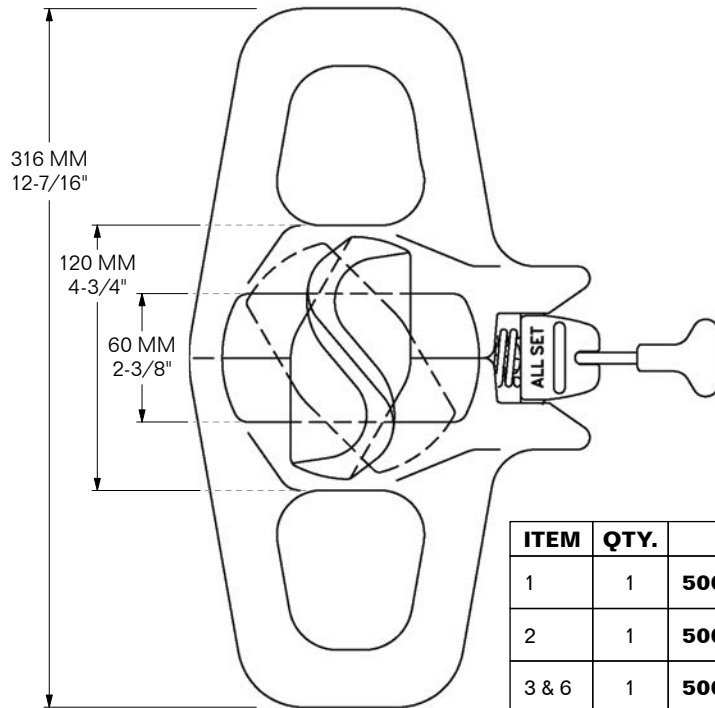
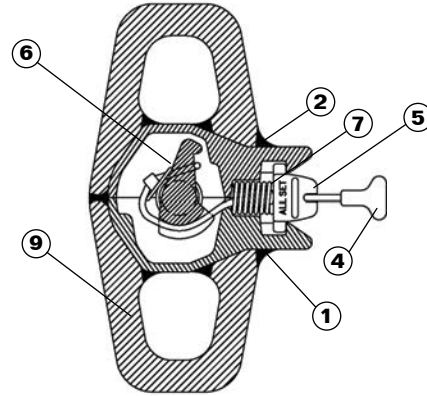
5002



**MACGREGOR**  
ALLSET



**MODEL 5002-C5AM-DF/W**  
**FORGED HOUSING**



Assembled w/ 4 ea. Cap Screws;  
Bolts to be tightened to 74 Nm.

**MIN. B.L. TENSION:** 500 kN  
**MIN. B.L. SHEAR:** 420 kN  
**MIN. B.L. COMPRESSION:** 2,000 kN

**MAX. SECURING LOAD (MSL):**  
25 M. Ton (based on safety factor of 2:1)

**FINISH:** HOT-DIP GALVANIZED (HDG)  
**WEIGHT:** 10 Kg / 22.05 LBS

\* XX = YEAR & MONTH NUMBERS

ITEM	QTY.	MODEL	DESCRIPTION	WEIGHT
1	1	5002-C5AM-DF/W-1/8	HOUSING HALF, LEFT	3.2 Kg 7.1 LBS
2	1	5002-C5AM-DF/W-2/8	HOUSING HALF, RIGHT, THREADED	3.2 Kg 7.1 LBS
3 & 6	1	5002-C5AM-DF-3-6	STEM w/ TWIST SPRING	2.7 Kg 6.1 LBS
4	1	5002-C5AM-DF-4	WIRE HANDLE	0.1 Kg 0.3 LBS
5	1	5002-C5AM-5	HANDLE GUIDE	0.1 Kg 0.3 LBS
7	1	5002-C5AM-DF-7	COMPRESSION SPRING	0.05 Kg 0.1 LBS
8	4	5002-C5AM-DF-8	CAP SCREW, 8 x 45	0.1 Kg 0.2 LBS

5002



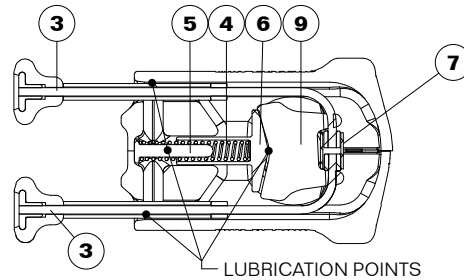
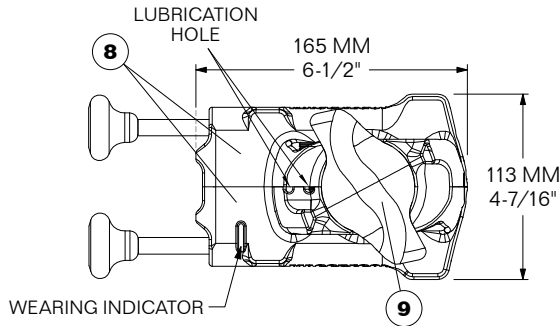
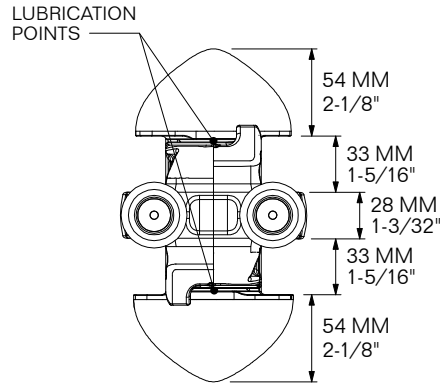
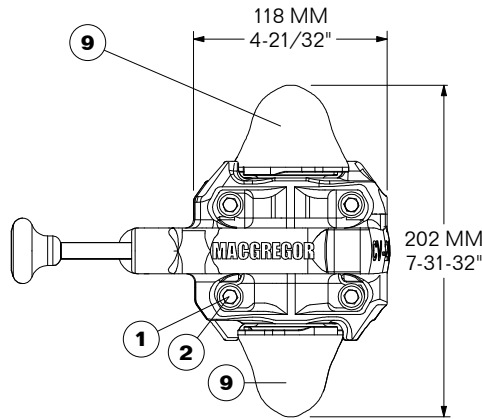


**MODEL 5002-CV-20-F**

**FORGED STEM** SAP 1237596

**SPECIAL ORDER ONLY MODEL 5002-CV-20L-F**

**LIFTLOCK w/ FORGED STEM**  
SAP 1281325



5002

**5002-CV-20L-F**

Liftlock certified for VTL up to 10 metric tons SWL per lock. 100% proofloaded to 20 metric tons.  
**Available as SPECIAL ORDER ONLY.**

	SAFETY FACTOR	WLL
FOR LIFT	5 : 1	10 M. Ton
FOR LASHING	2 : 1	25 M. Ton

	SWL	PL	MBS
TENSION, kN	250	375	500
SHEAR, kN	210	315	420
COMPRESSION, kN	1,000	1,250	2,000

ITEM	QTY.	MODEL	DESCRIPTION	WEIGHT / EA.
1	4	<b>5002-CV-20-1033080</b>	Socket Head Cap Screw, M10	0.03 Kg / 0.07 LBS
2	4	<b>1110-4521</b>	Hex Nut w/ Nylon Insert (1080141)	0.01 Kg / 0.02 LBS
3	2	<b>5002-CV-20-1093159</b>	Wire Handle, Stainless Steel	0.06 Kg / 0.14 LBS
4	1	<b>5002-CV-20-1010778</b>	Compression Spring, Stainless Steel	0.02 Kg / 0.04 LBS
5	1	<b>5002-CV-20-1010781</b>	Stabilizer/Spring Guide, Plastic	0.01 Kg / 0.01 LBS
6	1	<b>5002-CV-20-1010776</b>	Pressure Element, Plastic	0.01 Kg / 0.03 LBS
7	1	<b>5002-CV-20-1066028</b>	Hose/Tube Cover, 7/8" x 9/16", Plastic	0.01 Kg / 0.01 LBS
8	2	<b>5002-CV-20-400020444</b>	Housing Half, Non-handed	1.4 Kg / 3.08 LBS
9	1	<b>5002-CV-20-1242663</b>	Stem/Shaft, Forged Steel	2 Kg / 4.41 LBS

**FINISH:** HOT-DIP GALVANIZED (HDG) **WEIGHT:** 5.2 Kg / 11.5 LBS

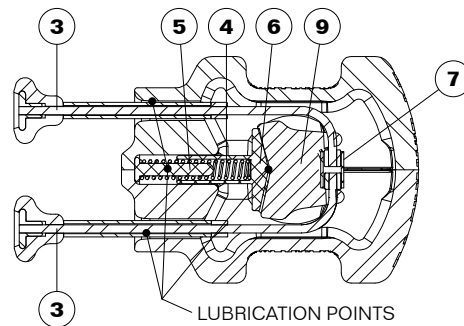
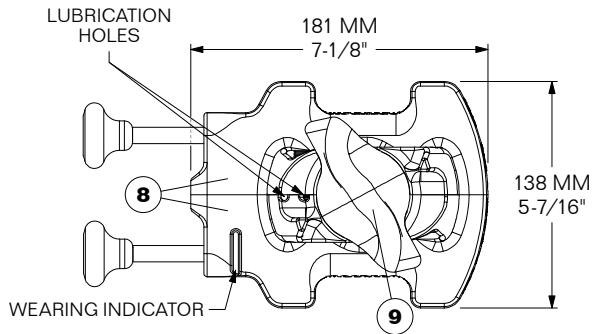
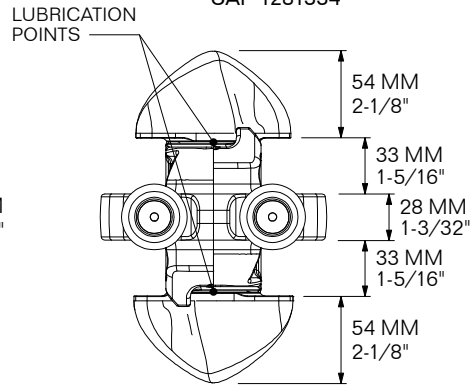
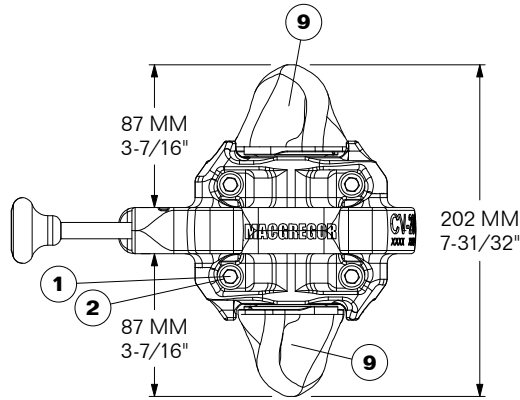


**MODEL 5002-CV-20G-F**

**FORGED STEM** SAP 1238334

**SPECIAL ORDER ONLY MODEL 5002-CV-20G-L-F**

**LIFTLOCK w/ FORGED STEM**  
SAP 1281334



**5002-CV-20G-L-F**

Liftlock certified for VTL up to **10** metric tons SWL per lock. 100% proofloaded to **25** metric tons.  
**Available as SPECIAL ORDER ONLY.**

	SAFETY FACTOR	WLL
FOR LIFT	5 : 1	10 M. Ton
FOR LASHING	2 : 1	25 M. Ton

	SWL	PL	MBS
TENSION, kN	250	375	500
SHEAR, kN	210	315	420
COMPRESSION, kN	1,150	1,438	2,000

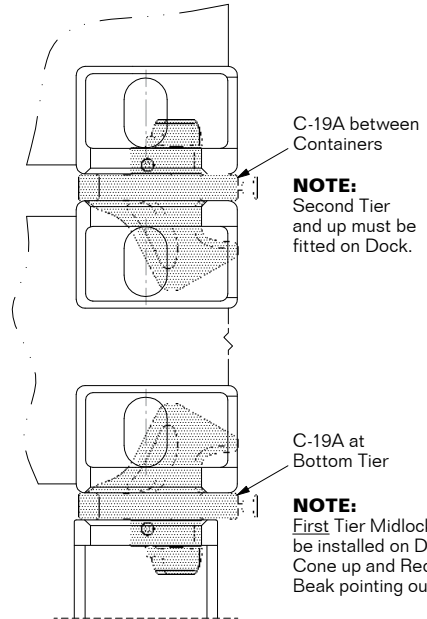
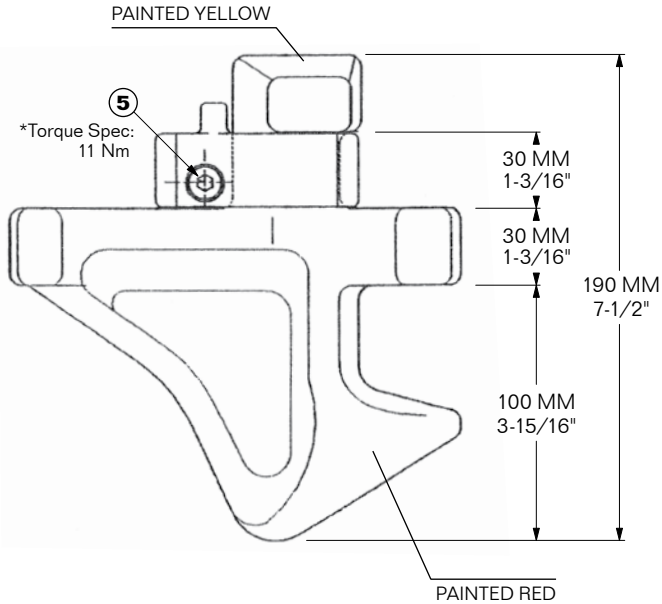
ITEM	QTY.	MODEL	DESCRIPTION	WEIGHT / EA.
1	4	<b>5002-CV-20-1033080</b>	Socket Head Cap Screw, M10	0.03 Kg / 0.07 LBS
2	4	<b>1110-4521</b>	Hex Nut w/ Nylon Insert (1080141)	0.01 Kg / 0.02 LBS
3	2	<b>5002-CV-20-1093159</b>	Handle, Stainless Steel	0.06 Kg / 0.14 LBS
4	1	<b>5002-CV-20-1010778</b>	Compression Spring, Stainless Steel	0.02 Kg / 0.04 LBS
5	1	<b>5002-CV-20-1010781</b>	Stabilizer/Spring Guide, Plastic	0.01 Kg / 0.01 LBS
6	1	<b>5002-CV-20-1010776</b>	Pressure Element, Plastic	0.01 Kg / 0.03 LBS
7	1	<b>5002-CV-20-1066028</b>	Hose/Tube Cover, 7/8" x 9/16", Plastic	0.01 Kg / 0.01 LBS
8	2	<b>5002-CV-20-K104796</b>	Housing Half, Non-handed	1.83 Kg / 4.04 LBS
9	1	<b>5002-CV-20-1242663</b>	Stem/Shaft, Forged Steel	2 Kg / 4.41 LBS

**FINISH:** HOT-DIP GALVANIZED (HDG) **WEIGHT:** 6 Kg / 13.2 LBS

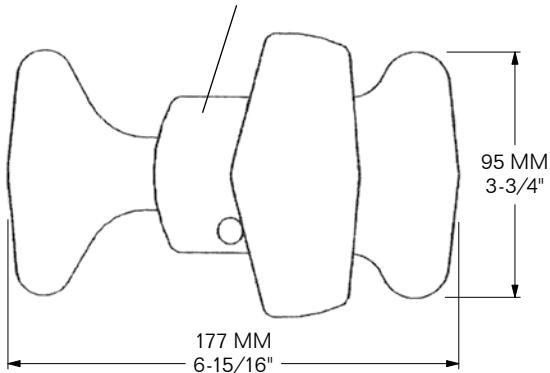
5002



**MODEL 5002-C19A**  
**FORGED STEEL**



**BEFORE INSTALLING:** Twist Shearblock to be parallel with head. Push up into Container Casting and twist Midlock 1/4 turn to lock (shown in Hanging Position).



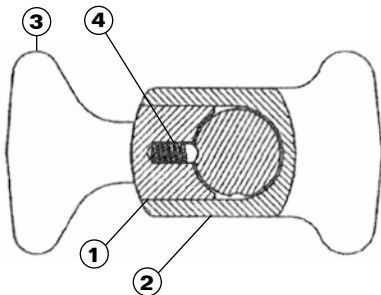
**MIN. B.L. TENSION:** 490 kN  
**MIN. B.L. SHEAR:** 420 kN  
**MIN. B.L. COMPRESSION:** 1,000 kN

**MAX. SECURING LOAD (MSL):**  
25 M. Ton (based on safety factor of 2:1)

**FINISH:** HOT-DIP GALVANIZED (HDG)  
**WEIGHT:** 6.1 Kg / 13.5 LBS

\* XX = YEAR & MONTH NUMBERS

APM #335652

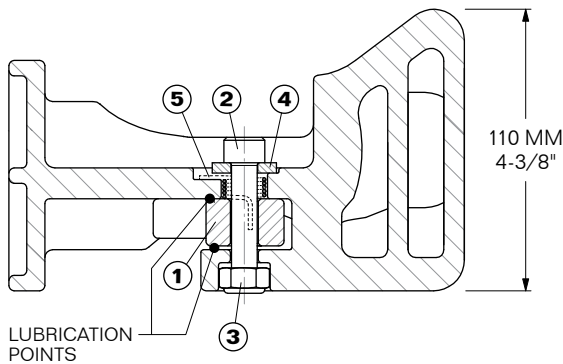
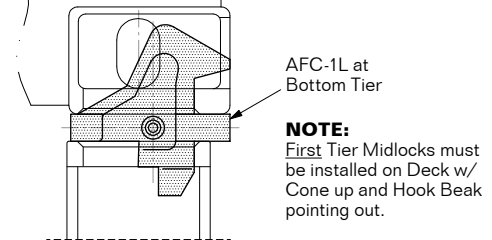
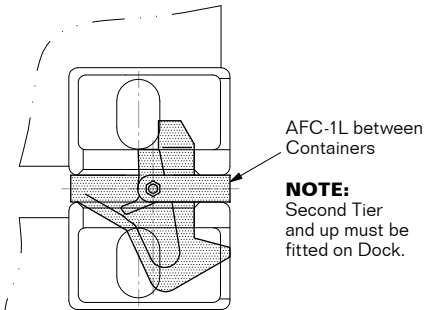
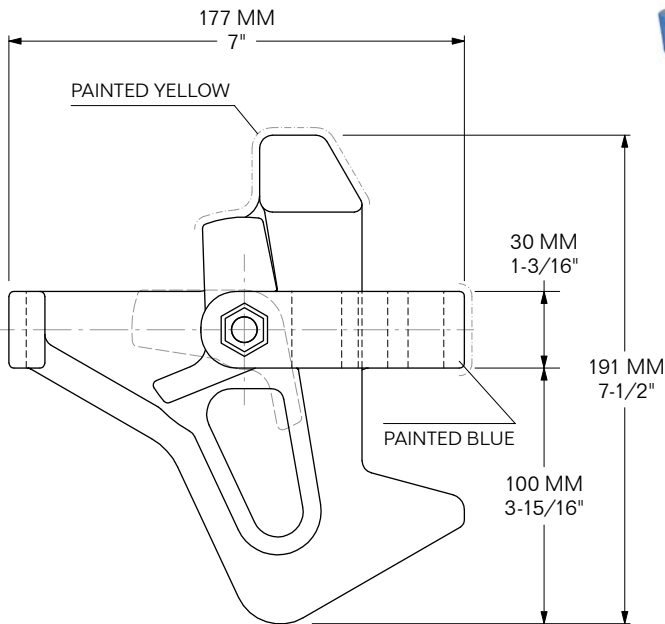


ITEM	QTY.	MODEL	DESCRIPTION	WEIGHT	
1	1	<b>5002-C19A-2</b>	Shearblock (Inner) w/ Thread	0.3 Kg	0.65 LB
2	1	<b>5002-C19A-3</b>	Shearblock (Outer)	0.32 Kg	0.7 LB
3	1	<b>5002-C19A-4</b>	Detent Ball	0.01 Kg	0.01 LB
4	1	<b>5002-C19A-5</b>	Detent Spring	0.01 Kg	0.01 LB
5	1	<b>5002-C19A-6</b>	Cap Screw*, M6 x 55mm	0.01 Kg	0.02 LBS

5002



**MODEL 5002-AFC-1L**  
**CAST STEEL HOUSING**



**MIN. B.L. TENSION:** 500 kN  
**MIN. B.L. SHEAR:** 420 kN

**MAX. SECURING LOAD (MSL):**  
25 M. Ton (based on safety factor of 2:1)

**FINISH:** HOT-DIP GALVANIZED (HDG)  
**WEIGHT:** 5 Kg / 11 LBS

\* XX = YEAR & MONTH NUMBERS

MacGregor #1086914

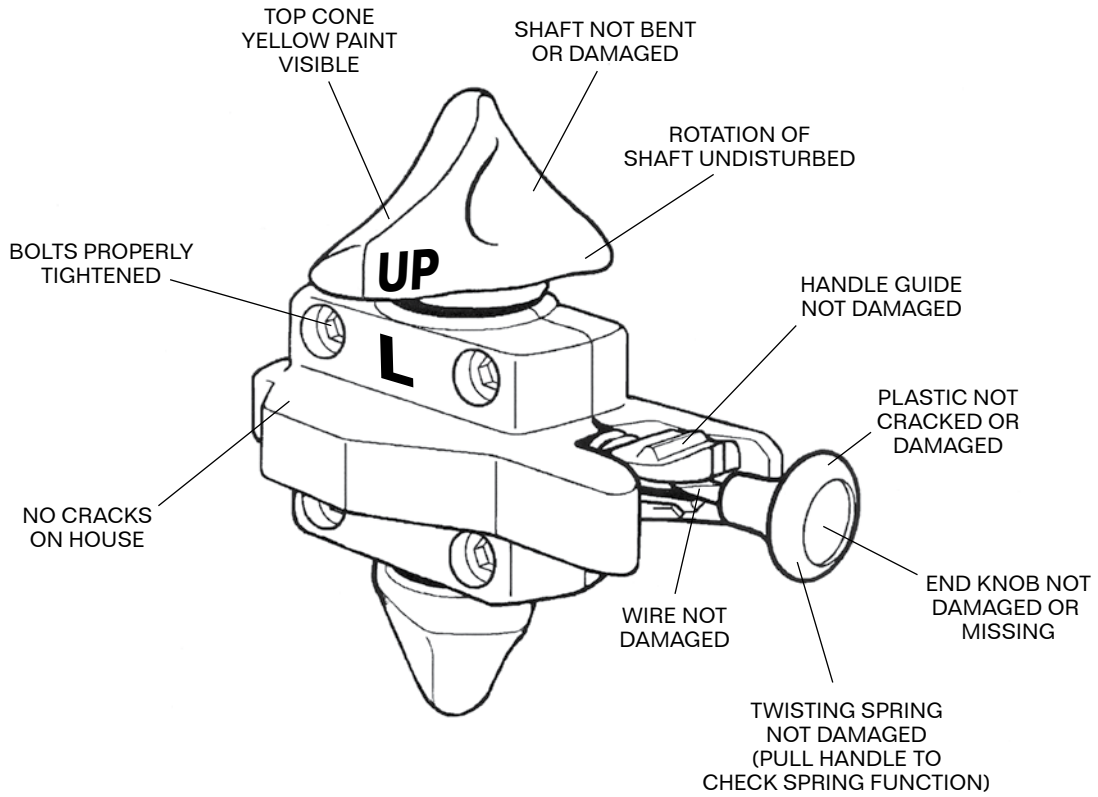
ITEM	QTY.	MODEL	DESCRIPTION	WEIGHT	
1	1	<b>5002-AFC-1L-1045156</b>	Latch/Securing Element	0.23 Kg	0.51 LBS
2	1	<b>5002-AFC-1L-1045154-SS</b>	Cap Screw Bolt (M10-1.5 x 60mm, stainless steel)	0.1 Kg	0.22 LBS
3	1	<b>1110-4521</b>	Hex Nut (self-locking, M10-1.5 x 60mm, zinc-plated)	0.01 Kg	0.01 LBS
4	1	<b>5002-AFC-1L-1045155</b>	Washer (1" x 1/2" x 3/32", zinc-plated)	0.01 Kg	0.01 LBS
5	1	<b>5002-AFC-1L-1045157</b>	Latch Spring	0.01 Kg	0.01 LBS

**5002**

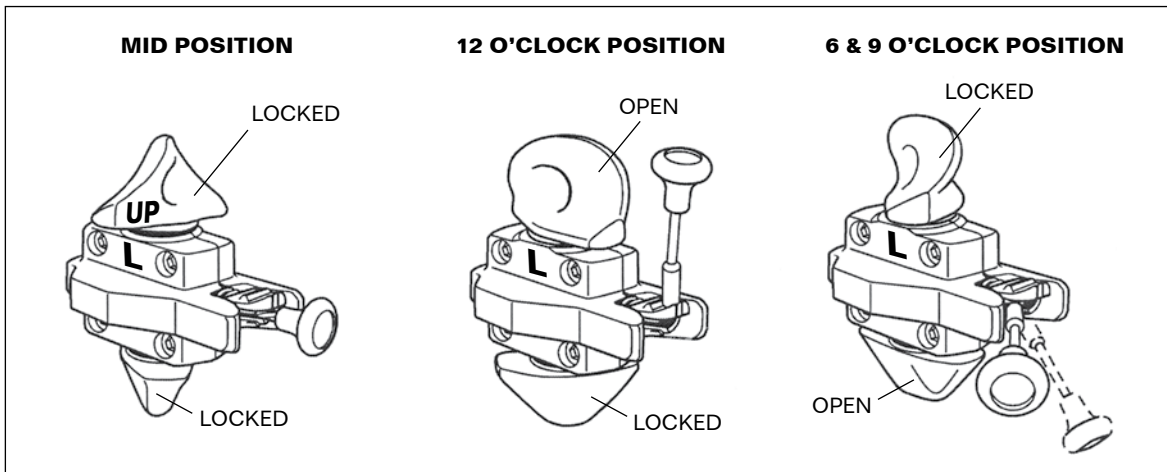




**VISUAL INSPECTION – FUNCTION TEST**  
(MINIMUM ONCE PER YEAR)



**FUNCTION TEST**

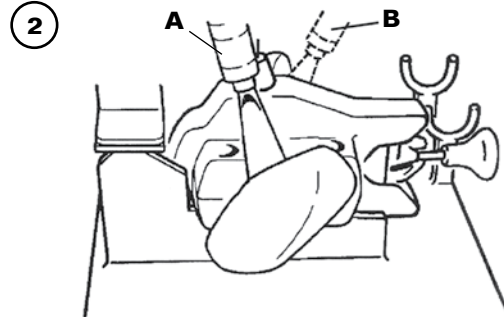
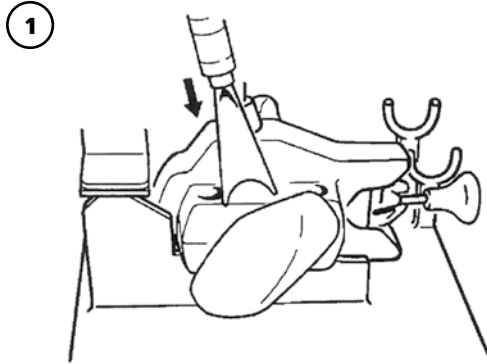


5002

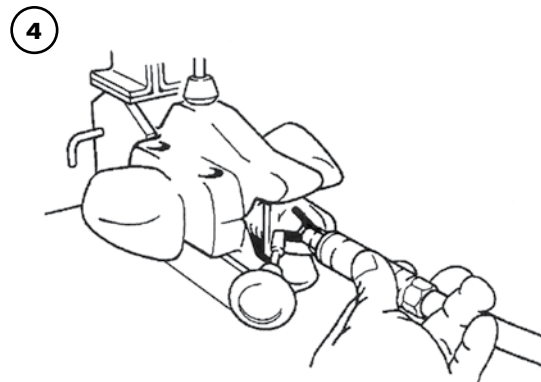
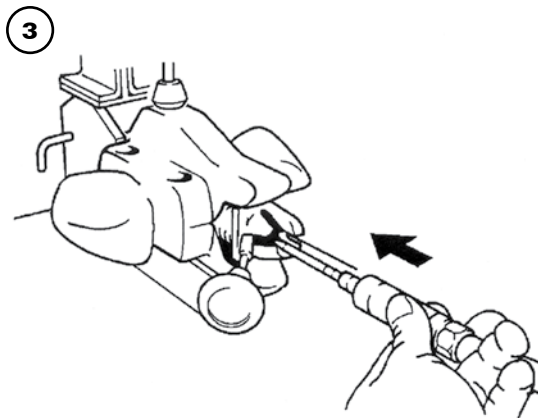


**GREASING**

(WHEN REQUIRED, TYPICALLY ONCE PER 18-24 MONTHS)



1. INSERT THE FLAT SHAFT-NOZZLE BETWEEN THE CONE AND HOUSING.
2. INJECT GREASE AT BOTH POSITIONS: A & B.

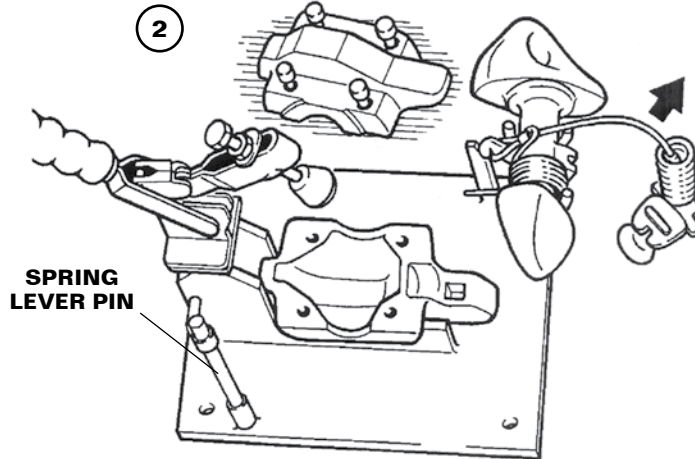
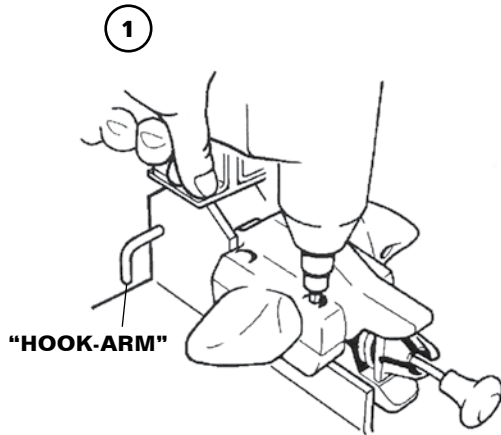


3. INSERT THE NEEDLE-TYPE HANDLE NOZZLE INTO THE HOUSING THROUGH THE HANDLE GUIDE.
4. INJECT GREASE WHILE NOZZLE IS SLOWLY PULLED OUT.
5. REMOVE EXCESSIVE GREASE, AND CARRY OUT THE FUNCTION TEST.

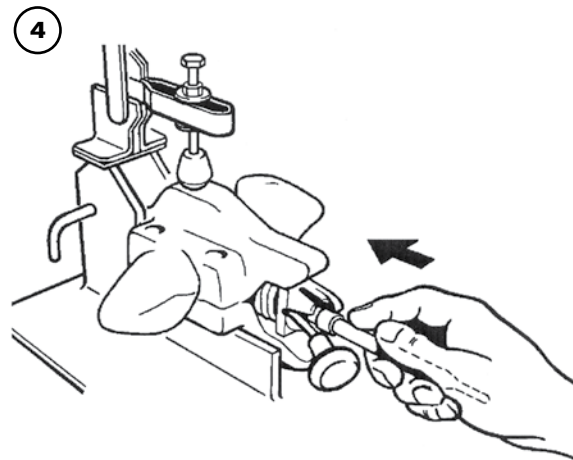
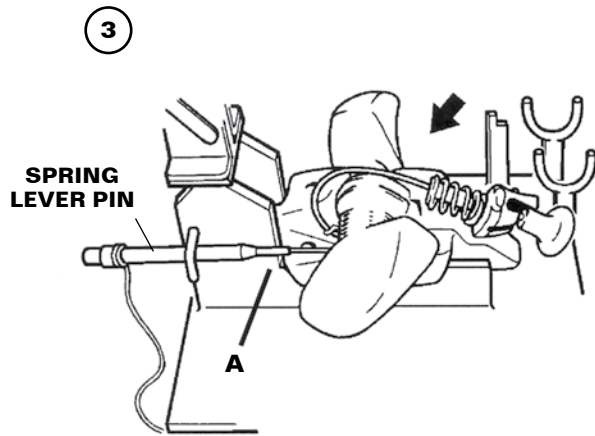
5002



**HOW TO REPLACE A DAMAGED WIRE-HANDLE**



1. **DISMANTLING:** PLACE THE TWISTLOCK IN THE JIG AND SECURE WITH THE TOGGLE-CLAMP. REMOVE THE 4 SOCKET-HEAD CAP SCREWS.
2. **REMOVE OLD WIRE-HANDLE:** RELEASE CLAMP AND REMOVE THE UPPER HALF OF THE HOUSING, LIFT OUT THE SHAFT AND REMOVE THE WIRE-HANDLE FROM THE SHAFT. REMOVE THE SPRING AND HANDLE GUIDE FROM THE OLD WIRE-HANDLE.



3. **ASSEMBLY OF NEW WIRE-HANDLE:** EXAMINE SHAFT AND SPRING FOR DEFECTS, EXAMINE SPRING AND HANDLE GUIDE FOR DEFECTS, THEN MOUNT THEM ONTO THE NEW WIRE-HANDLE. FIT THE NEW WIRE-HANDLE ONTO THE SHAFT. GREASE AND PLACE SHAFT IN LOWER HALF OF HOUSING. PRE-TENSION THE SPRING (A) AND SECURE THE JIG.
4. **ASSEMBLY:** FIT UPPER HALF OF HOUSING AND FIX WITH TOGGLE-CLAMP. PUSH MOUTH PIECE INTO OPERATION POSITION IN HOUSING. INSERT THE 4 SCREWS AND TIGHTEN THOROUGHLY.

5002



### MT-1 SERVICE JIG USER INSTRUCTIONS

1. Place the lock on the side in the slot in the middle of the jig with the handle toward you and the yellow head to the right.
2. Close the clamp (adjust pressure with the bolt and nut above the rubberfoot if necessary).
3. Loosen the four housing bolts. We recommend using an impact wrench (Model 5003-MT-2) and the 8 MM socket hex bit for 1/2" drive (Model 5003-MT-3).
4. Open the clamp. The upper housing half will now "pop up" about 2 inches due to the spring pressure.
5. Remove the stem to replace the handle or the entire stem. Remember to fit the handle guide and the compression spring onto the new handle before attaching the handle to the stem.
6. The cradle and vertical bar in the right corner on the jig is an assist to get the handle loop onto the stem arm. Put the wire loop (with the wire handle end pointing away from you) at the top of the vertical flat bar with the notch, turn the stem onto the notch and hold it firmly onto the notch with your left hand. Take the handle and pull it with a quick jerk, and the loop will "jump" onto the stem arm over the end knob (the wire handle loop can also be pushed onto the stem arm knob using your two thumbs, but after 50 or so handles, it is tough going!). After attaching the wire handle to the stem, make sure the wire cable is fitted under the hook at the end of the spring to keep the wire in position.
7. When re-assembling, grease the bearing areas on the bottom housing half before putting the stem down with the yellow cone to the right, and with the stem arm into the bottom of the housing.
8. Take the spring lever pin and push it onto the end of the spring arm about 1/8", bend the spring back and hook the lever pin in under the "hook arm" welded on the side of the jig to hold the "spring-loaded" lever pin in position.
9. Grease the stem where the upper housing will make contact (under each stem head).
10. Pull the handle toward you, making sure the wire cable is resting in the slot on the stem. Place the handle guide in the lower housing half.
11. Place the upper housing half in position on top of the lower housing half with the four bolts already in the holes on the upper half.
12. Use a wide screwdriver to push in the upper part of the handle guide into the cavity in the upper housing half, while you at the same time are holding down the upper housing half with your hand.
13. While still holding down the upper housing half, place the clamp on top of the upper housing half with the spring lever still inbetween the housing halves.
14. Use an impact wrench and lightly spin two diagonally positioned bolts so they take the thread. Do not tighten down. If the bolt holes do not line up, use a hammer to tap the upper housing half to correct position.
15. Remove the spring lever from in between the housing halves.
16. Turn the other bolts to make sure they take thread and then tighten town on all four bolts to 74 Nm (50ftlb).
17. Once all four bolts are tight, loosen the clamp and take out the lock for cycle test. Hold the lock and pull the handle to make sure the stem is moving freely, and that the handle swage can be parked in all positions.
18. We also suggest that the yellow cone is repainted.

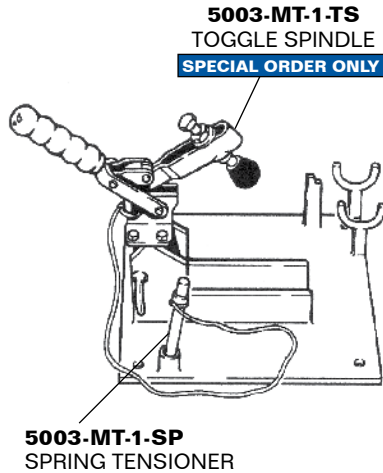
**NOTE: If the arm on the stem is bent or the knob at the end of the stem arm is broken off, it is evident that the stem has been forced backwards. This happens sometimes when the container moves longitudinally at the same instance as the crane drops it onto the locks. The stem must then be scrapped; it cannot be used since the stem arm also regulates the stop positions of the stem.**

5002





**SERVICE JIG  
5003-MT-1**



**SERVICE TOOLS**

**PNEUMATIC TORQUE  
WRENCH 5003-MT-2**

**SPECIAL ORDER ONLY**

**6 & 8 MM  
HEXAGON BITS**  
for 1/2" drive

**5003-MT-3-6**  
6 MM HEX BIT  
for 8 MM Cap Screw

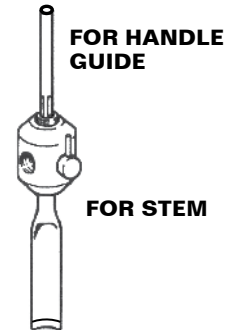
**5003-MT-3-8**  
8 MM HEX BIT  
for 10 MM Cap Screw

**POWER SUPPLY: COMPRESSED  
AIR: 7 l/s, 600 kPa**



**LUBRICATION**

**COMBINED NOZZLE  
5003-MT-4-5**



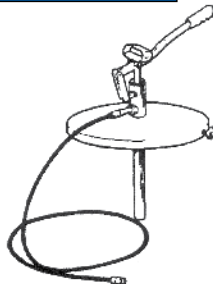
5003

**MODEL 5003-MT-1-KIT** SERVICE/REPAIR TOOL KIT contains:

QTY.	MODEL	DESCRIPTION
1	<b>5003-076174735987</b>	DEWALT 15-GALLON JOB BOX CHEST w/ WHEELS
1	<b>5003-MT-1</b>	SERVICE JIG for C5AM, C5AM-DF, C8A-DF & CV-20
1	<b>5003-MT-1-TS</b>	TOGGLE SPINDLE attached to MT-1 SERVICE JIG (used on C5AM & C5AM-DF locks)
1	<b>5003-MT-1-SP</b>	SPRING TENSIONER for MT-1 SERVICE JIG (used on C5AM & C5AM-DF locks)
1	<b>5003-107423</b>	RATCHET WRENCH w/ 1/ 2" DRIVE
1	<b>5003-684254</b>	5" RATCHET EXTENSION w/ 1/ 2" DRIVE
4	<b>5003-MT-3-6</b>	6 MM HEX BIT for M8 Cap Screw
1	<b>5003-MT-3-8</b>	8 MM HEX BIT for M10 Cap Screw

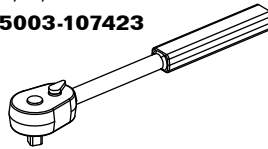
**GREASE PUMP  
PORTABLE GREASE  
DISPENSER 5003-MT-6**

**SPECIAL ORDER ONLY**



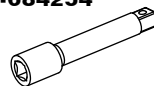
**RATCHET WRENCH  
w/ 1/ 2" drive**

**5003-107423**



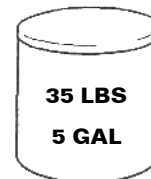
**5" RATCHET EXTENSION  
w/ 1/ 2" drive**

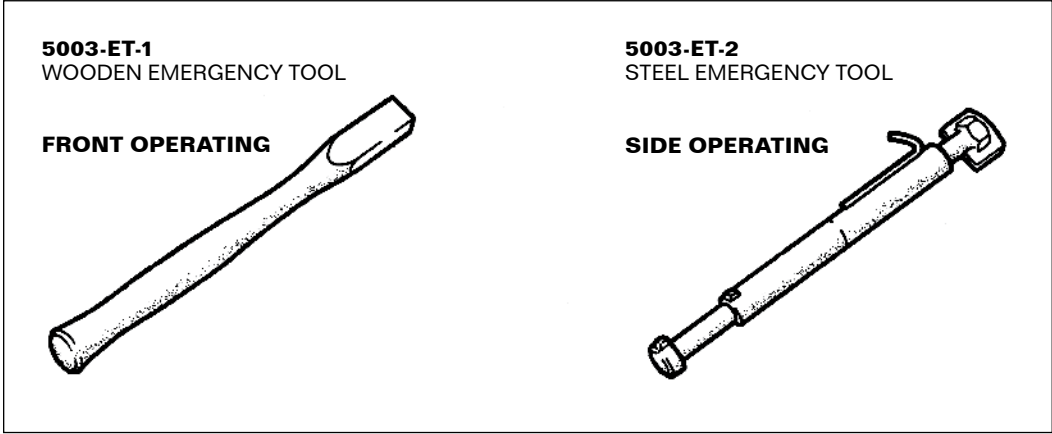
**5003-684254**



**GREASE**

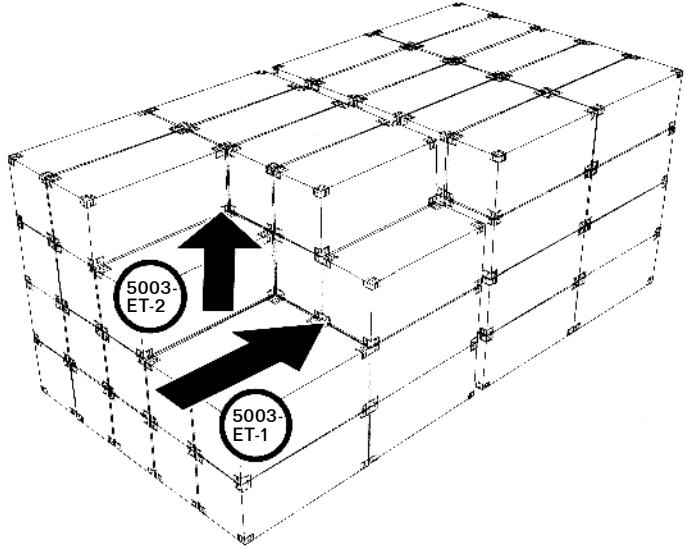
**5003-MT-7**



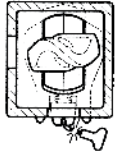


MODEL	MATERIAL	WEIGHT	COLOR	REMARK
5003-ET-1	HICKORY WOOD	0.15 Kg / 0.34 LBS	RED	FRONT OPERATING
5003-ET-2	STEEL	0.66 Kg / 1.45 LBS	RED	SIDE OPERATING

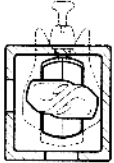
**5003**



**USE THE EMERGENCY TOOL:**



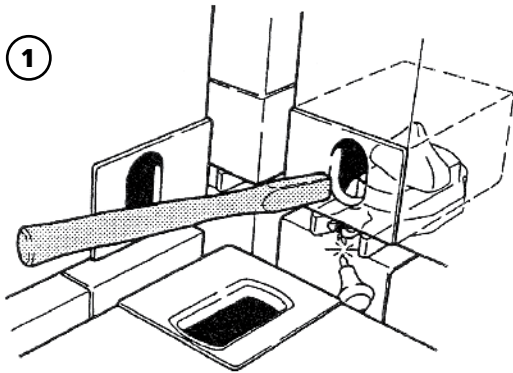
WHEN THE WIRE-HANDLE IS OUT OF FUNCTION.



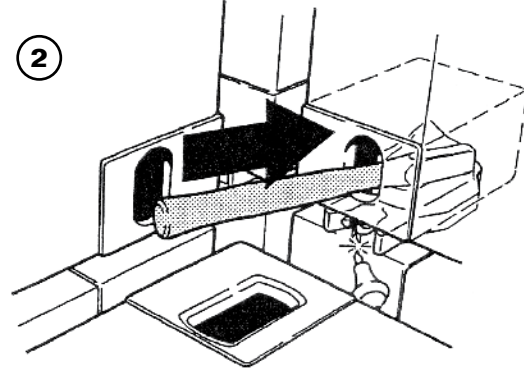
WHEN THE TWISTLOCK HAS BEEN MOUNTED BACKWARDS/FRONT.



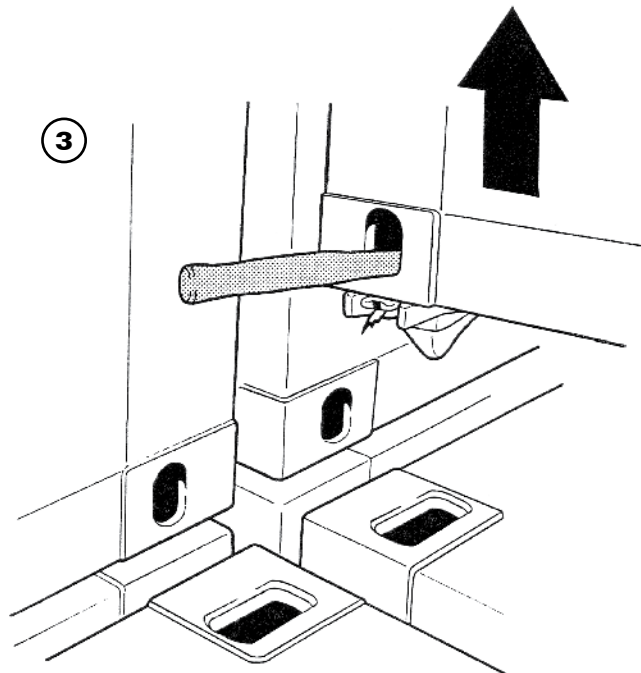
**USED WHEN UNLOCKING HANDLE IS TORN OFF OR  
POINTING THE WRONG WAY UNDER THE CONTAINER.**



**WHEN THE TWISTLOCK IS ACCESSIBLE  
FROM FRONT, USE TOOL: 5003-ET-1.**



**TWIST THE UPPER CONE  
COUNTER-CLOCKWISE BY PUSHING  
THE TOOL INTO THE CORNER CASTING.**



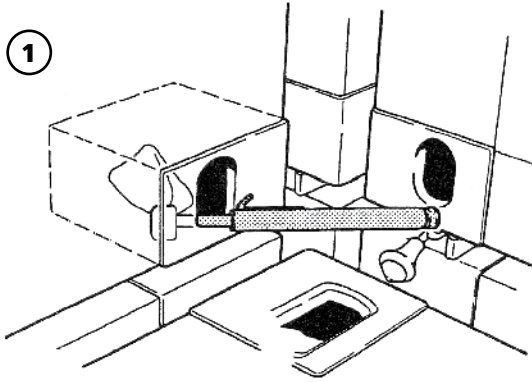
**MAKE SURE THAT THE TOOL IS SECURED  
BEFORE LIFTING THE CONTAINER.**

5003



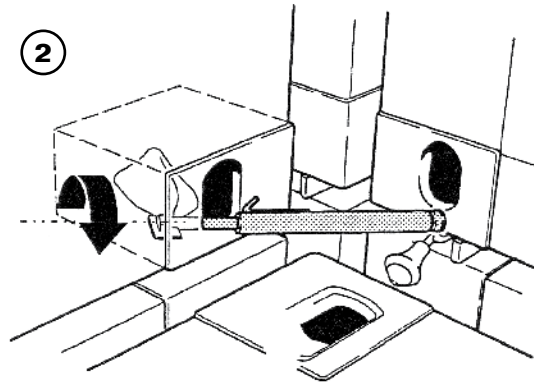
**USED WHEN UNLOCKING HANDLE IS TORN OFF OR POINTING THE WRONG WAY UNDER THE CONTAINER.**

1



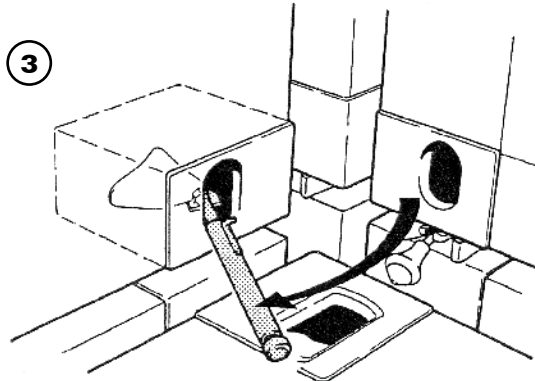
**WHEN THE TWISTLOCK IS ACCESSIBLE FROM SIDE, USE TOOL: 5003-ET-2.**

2



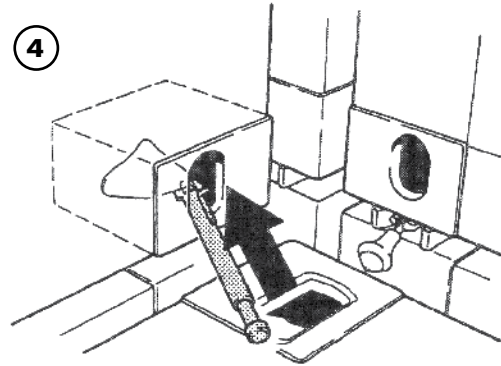
**INSERT THE TOOL INTO THE SIDE-APERTURE AND TWIST THE TOOL UNDERNEATH THE UPPER CONE.**

3



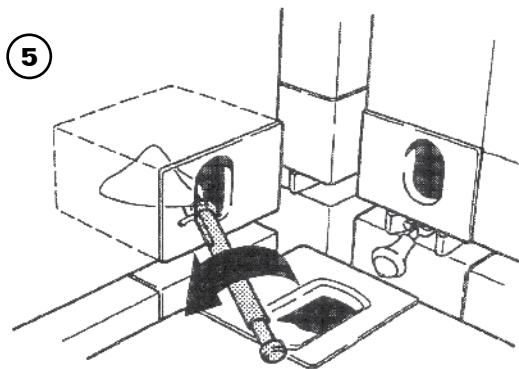
**TWIST THE UPPER CONE COUNTER-CLOCKWISE BY PULLING THE HANDLE.**

4



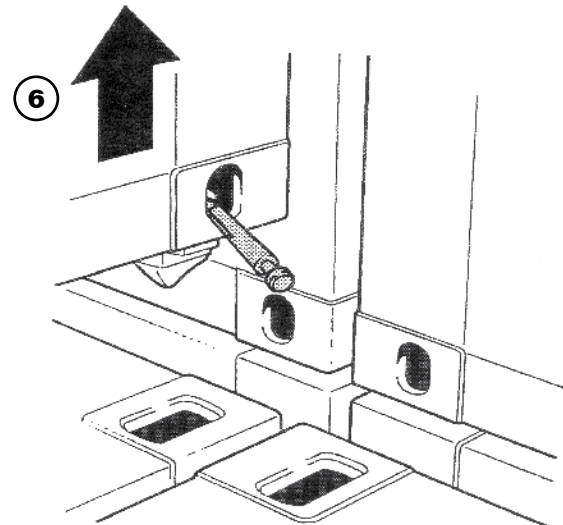
**PUSH THE TUBE-SLEEVE INTO THE APERTURE.**

5



**TWIST THE TOOL COUNTER-CLOCKWISE UNTIL THE TOOL IS SECURED INSIDE THE CORNER CASTING.**

6



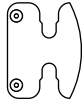
**MAKE SURE THAT THE TOOL IS SECURED BEFORE LIFTING THE CONTAINER.**

**5003**



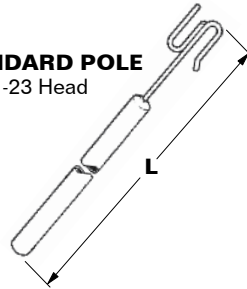


5004-OR-W-1063839



Bolted on to OR-W  
Unlocking Pole

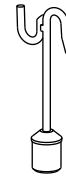
STANDARD POLE  
w/ AH-23 Head



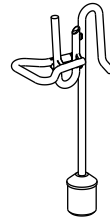
5004-AH-23



5004-AH-24



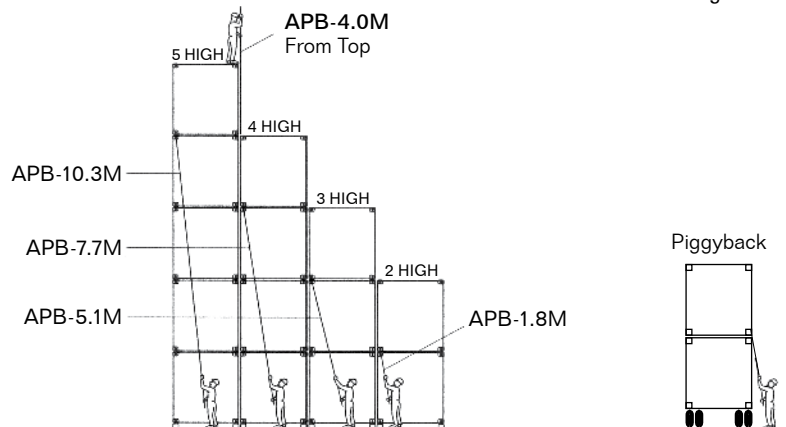
5004-AH-25



TO BE USED FROM DECK OF SHIP UNLESS OTHERWISE NOTED.

MODEL	ALLSET #	MACGREGOR	LENGTH*		REACH	WEIGHT		NOTES
5004-UP-06-W/AH-23	APB-1.8M	OR-W/1.8	1.8 M	5.9'	2 HIGH	1.5 Kg	3.2 LBS	
5004-UP-09-W/AH-23	—	—	2.7 M	8.9'	2 HIGH	2 Kg	4.4 LBS	
5004-UP-13-W/AH-25	—	—	4 M	13.1'	—	2.5 Kg	5.4 LBS	PIGGYBACK
5004-UP-13-W/AH-24	APB-4.0M	OR-W/3.6	4 M	13.1'	—	2.2 Kg	4.9 LBS	FROM TOP
5004-UP-16-W/AH-23	—	—	4.9 M	16.1'	3 HIGH	2.4 Kg	5.4 LBS	
5004-UP-16-W/AH-25	—	—	4.9 M	16.1'	3 HIGH	2.5 Kg	5.4 LBS	
5004-UP-18-W/AH-23	APB-5.1M	OR-W/5.1	5.5 M	18'	3 HIGH	2.9 Kg	6.5 LBS	
5004-UP-20-W/AH-23	—	—	6.1 M	20'	3 HIGH	3.4 Kg	7.6 LBS	
5004-UP-24-W/AH-23	—	—	7.3 M	23.9'	4 HIGH	3.7 Kg	8.1 LBS	
5004-UP-26-W/AH-25	—	—	7.9 M	26'	4 HIGH	4.4 Kg	9.9 LBS	
5004-UP-26-W/AH-23	APB-7.7M	OR-W/7.8	7.9 M	25.9'	4 HIGH	4.3 Kg	9.6 LBS	
5004-UP-35-W/AH-23	APB-10.3M	OR-W/10.4	10.3 M	33.8'	5 HIGH	5.4 Kg	12 LBS	
5004-UP-35-W/AH-25	—	—	10.3 M	33.8'	—	5.6 Kg	12.3 LBS	
5004-UP-09-W/UP-02	—	9' EXTENSION for UP-35 Unlocking Pole Tube				1.8 Kg / 4 LBS		
5004-1623	—	BOLT-ON COUPLING w/ Hardware for 5004-UP-35-W/AH-23				0.6 Kg / 1.3 LBS		

\*Other lengths can be supplied upon request.

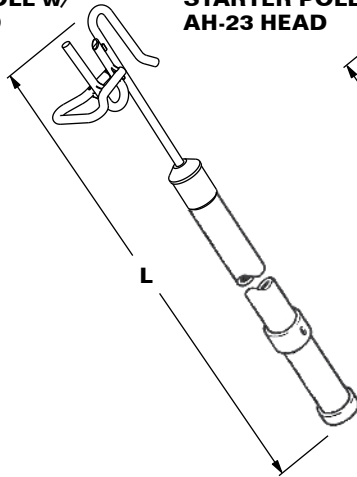


**MATERIAL:** AGE-HARDENED ALUMINUM TUBE, STEEL ACTUATOR HEAD **TUBE FINISH:** MILLED

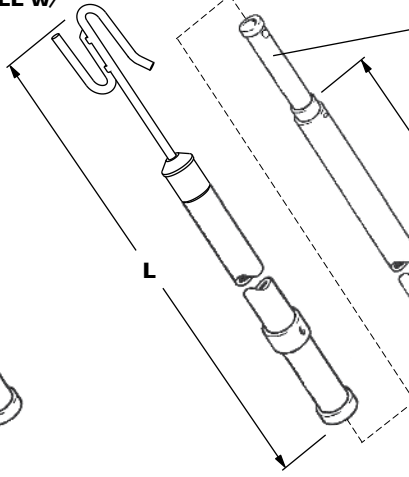
5004



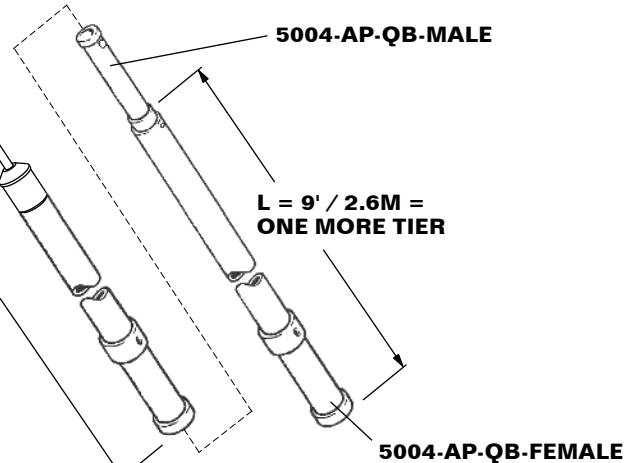
**5004-APB-Q-2.2-25**  
QUICK-COUPLING  
STARTER POLE w/  
AH-25 HEAD



**5004-APB-Q-2.2-23**  
QUICK-COUPLING  
STARTER POLE w/  
AH-23 HEAD

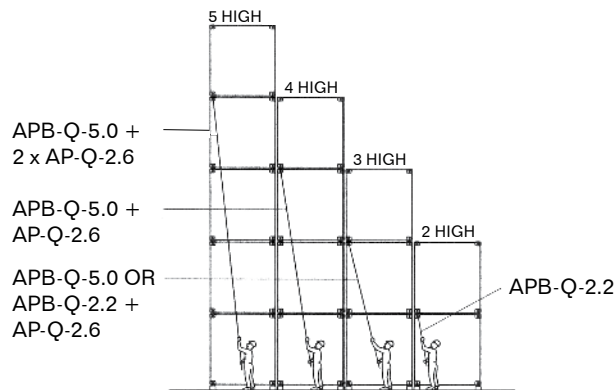


**5004-AP-Q-2.6**  
EXTENSION PIECE



**5004**

ITEM	MODEL	TYPE	LENGTH		WEIGHT		REACH
1	<b>5004-APB-Q-2.2-23</b>	STARTER	2.2 M	7'	2 Kg	4.4 LBS	2 HIGH
2	<b>5004-APB-Q-2.2-25</b>						
3	<b>5004-APB-Q-5.0-23</b>	STARTER	5 M	16'	3 Kg	6.6 LBS	3 HIGH
4	<b>5004-APB-Q-5.0-25</b>						
5	<b>5004-APB-Q-5.4-23</b>	STARTER	5.4 M	18'	3.4 Kg	7.5 LBS	3 HIGH
6	<b>5004-APB-Q-5.4-25</b>						
7	<b>5004-APB-Q-7.7-23</b>	STARTER	7.9 M	26'	4.9 Kg	11 LBS	4 HIGH
8	<b>5004-APB-Q-7.7-25</b>						
9	<b>5004-AP-Q-2.6</b>	EXTENSION	2.6 M	9'	2.9 Kg	6.4 LBS	ONE TIER MORE
10	<b>5004-APB-Q-KIT/APM-23</b>	SET	1 ea. ITEM 1 3 ea. ITEM 9		10.7 Kg	23.6 LBS	2 - 5 HIGH
11	<b>5004-APB-Q-KIT/APM-25</b>	SET	1 ea. ITEM 2 3 ea. ITEM 9		10.7 Kg	23.6 LBS	2 - 5 HIGH



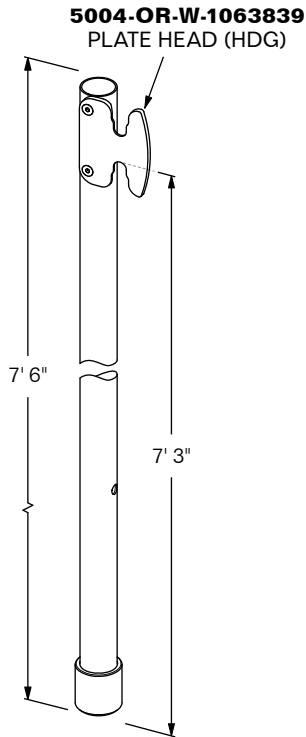
**MATERIAL:** AGE-HARDENED ALUMINUM TUBE / STAINLESS STEEL ACTUATOR HEAD.





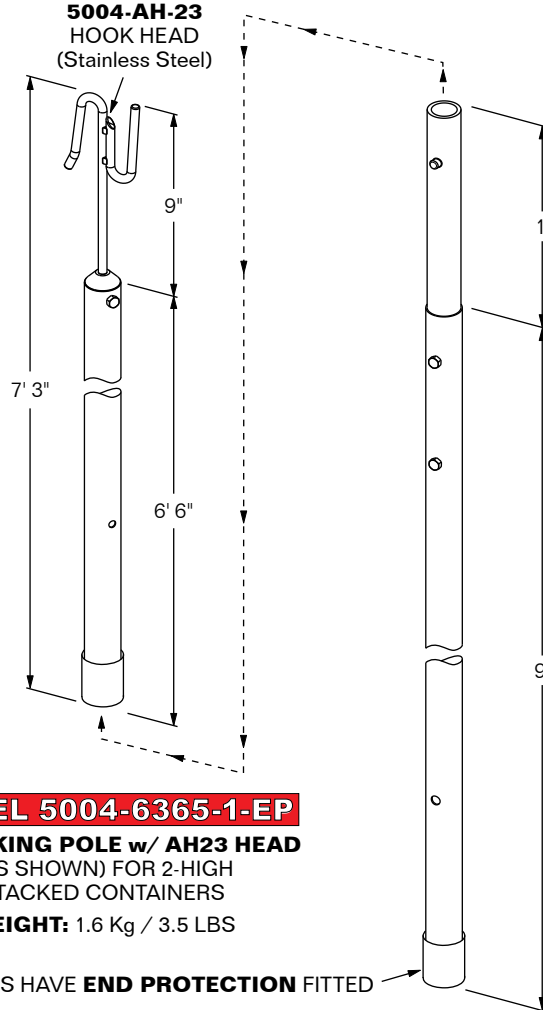
**MODEL 5004-6365-EP-CV20**

KIT INCLUDES: 1 EA. **5004-6365-1-CV20**  
 UNLOCKING POLE w/ PLATE HEAD,  
 3 EA. **5004-6365-2-EP**  
 EXTENSION POLES  
**WEIGHT:** 7.4 Kg / 16.35 LBS



**MODEL 5004-6365-EP**

KIT INCLUDES: 1 EA. **5004-6365-1-EP**  
 UNLOCKING POLE w/ AH23 HEAD,  
 3 EA. **5004-6365-2-EP**  
 EXTENSION POLES  
**WEIGHT:** 7.5 Kg / 16.5 LBS



**MODEL 5004-6365-1-CV20-EP**

**UNLOCKING POLE w/ PLATE HEAD**  
 (AS SHOWN) FOR 2-HIGH  
 STACKED CONTAINERS  
**WEIGHT:** 1.5 Kg / 3.3 LBS

Other lengths of any pole  
 can be made upon request.

**MODEL 5004-6365-1-EP**

**UNLOCKING POLE w/ AH23 HEAD**  
 (AS SHOWN) FOR 2-HIGH  
 STACKED CONTAINERS  
**WEIGHT:** 1.6 Kg / 3.5 LBS

ALL POLES HAVE **END PROTECTION** FITTED

**MODEL 5004-6365-2-EP**

**EXTENSION POLE** (AS SHOWN) FOR  
 UP TO 5-HIGH STACKED CONTAINERS  
**WEIGHT:** 2 Kg / 4.35 LBS

**TUBE MATERIAL:** ALUMINUM **FINISH:** SELF-COLOR

5004

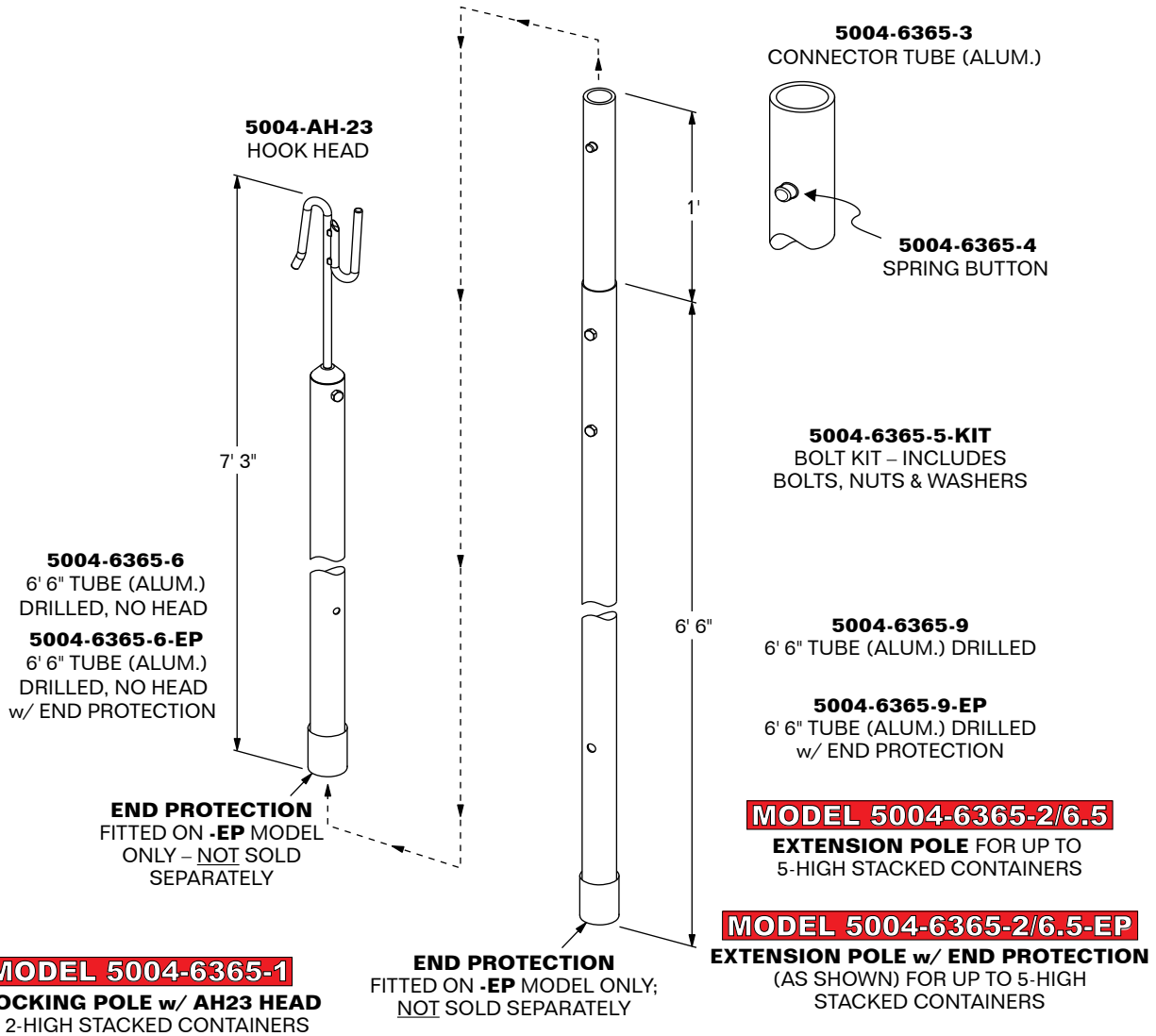


**MODEL 5004-6365-6.5**

KIT INCLUDES: 1 EA. **5004-6365-1** UNLOCKING POLE w/ AH23 HEAD, 3 EA. **5004-6365-2/6.5** EXTENSION POLES

**MODEL 5004-6365-6.5-EP**

KIT INCLUDES: 1 EA. **5004-6365-1-EP** UNLOCKING POLE w/ AH23 HEAD, 3 EA. **5004-6365-2/6.5-EP** EXTENSION POLES w/ END PROTECTION



**5004**

**MODEL 5004-6365-1**

**UNLOCKING POLE w/ AH23 HEAD**  
 FOR 2-HIGH STACKED CONTAINERS

**MODEL 5004-6365-1-EP**

**UNLOCKING POLE w/ AH23 HEAD & END PROTECTION (AS SHOWN)**  
 FOR 2-HIGH STACKED CONTAINERS

**MATERIAL:** ALUMINUM TUBES / STAINLESS STEEL HEAD

**FINISH:** SELF-COLOR

**WEIGHT:** **5004-6365-6.5:** 6.5 Kg / 14.3 LBS

**5004-6365-6.5-EP:** 6.8 Kg / 15.0 LBS

**5004-6365-1:** 1.4 Kg / 3.0 LBS

**5004-6365-1-EP:** 1.5 Kg / 3.3 LBS

**5004-6365-2/6.5:** 1.7 Kg / 3.7 LBS

**5004-6365-2/6.5-EP:** 1.8 Kg / 4.0 LBS



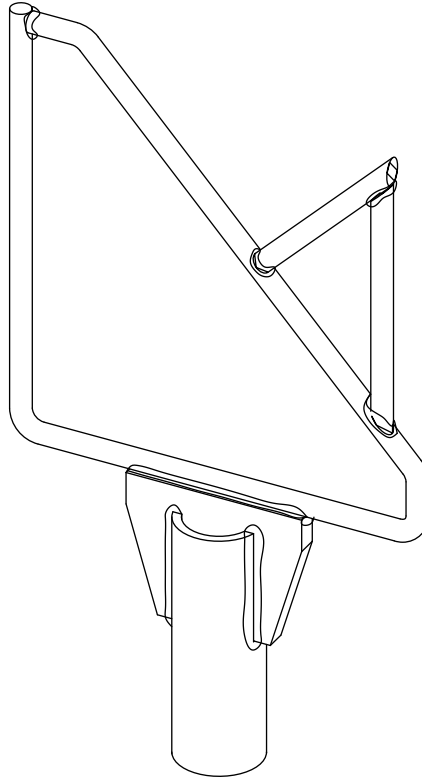
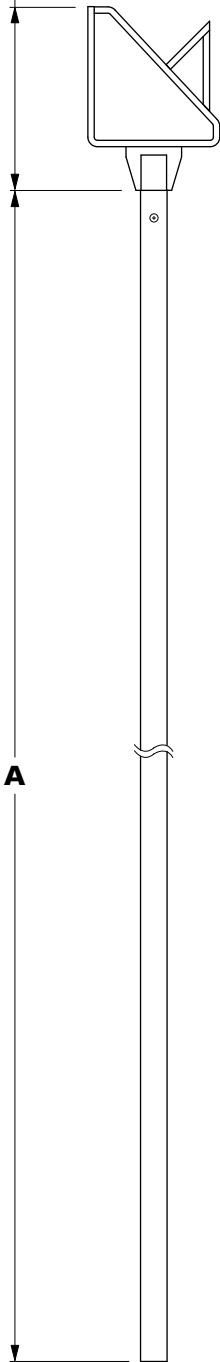


**MODEL 5004-UP-06-W/2937**

**MODEL 5004-UP-16-W/2937**

**MODEL 5004-UP-26-W/2937**

231.3 MM  
9-1/8"



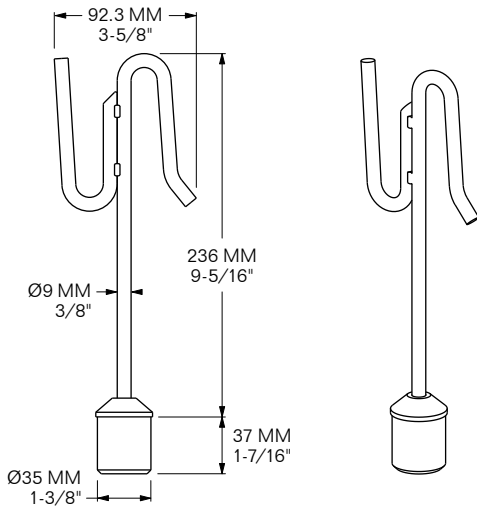
**5004**

MODEL	A	WEIGHT
<b>5004-UP-06-W/2937</b>	198.2 MM 6' 6"	1.87 Kg 4.13 LBS
<b>5004-UP-16-W/2937</b>	4,877 MM 16'	3.35 Kg 7.38 LBS
<b>5004-UP-26-W/2937</b>	7,925 MM 26'	4.91 Kg 10.8 LBS

HEAD MADE FROM STEEL,  
BOLTED TO 1-1/2" ALUMINUM POLE.

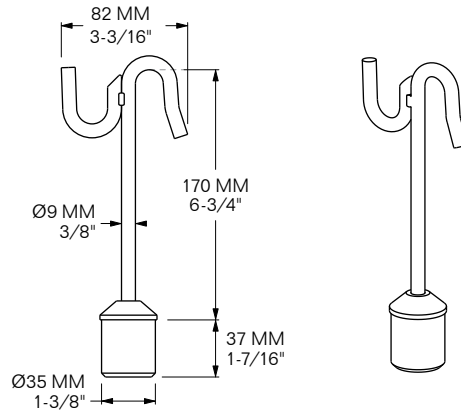


**MODEL 5004-AH-23**  
STANDARD TYPE



**REFERENCE:** 6365-1  
**MATERIAL:** STAINLESS STEEL / ALUMINUM  
**FINISH:** SELF-COLOR  
**WEIGHT:** 0.38 Kg / 0.83 LBS

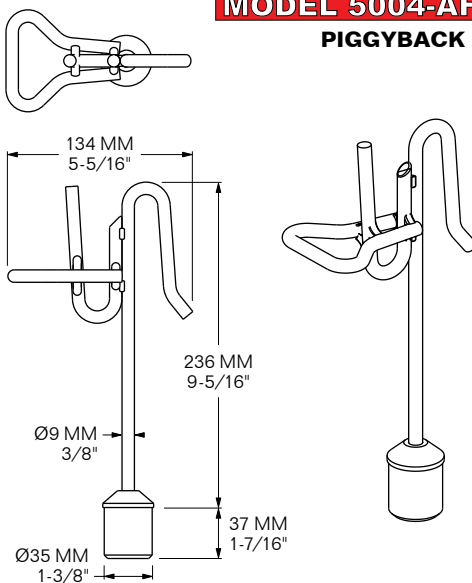
**MODEL 5004-AH-24**  
FROM TOP TYPE



**REFERENCE:** 7683-1  
**MATERIAL:** STAINLESS STEEL / ALUMINUM  
**FINISH:** SELF-COLOR  
**WEIGHT:** 0.28 Kg / 0.62 LBS

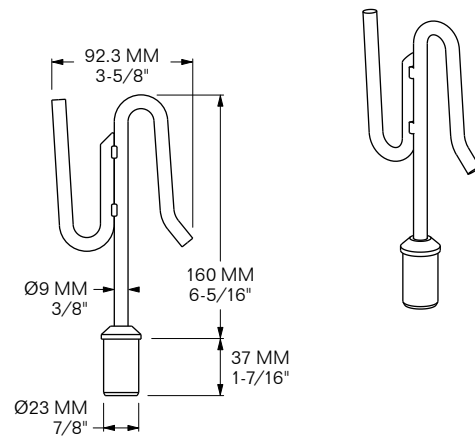
5004

**MODEL 5004-AH-25**  
PIGGYBACK TYPE



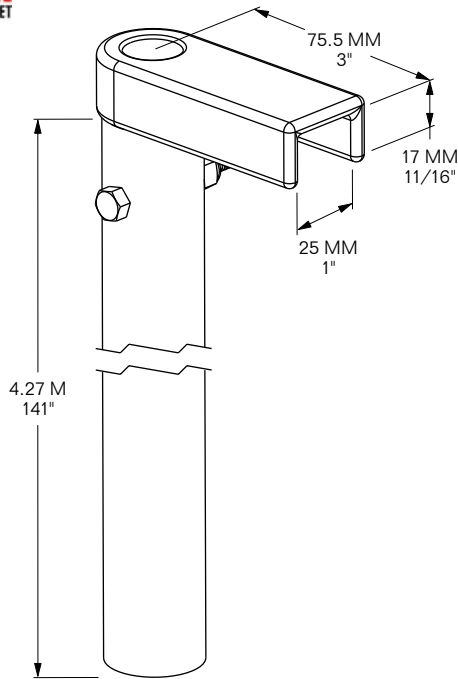
**REFERENCE:** 7684-1  
**MATERIAL:** STAINLESS STEEL / ALUMINUM  
**FINISH:** SELF-COLOR  
**WEIGHT:** 0.50 Kg / 1.09 LBS

**MODEL 5004-AH-23-TQ**  
FOR TELESCOPIC POLE



**REFERENCE:** 7694-1  
**MATERIAL:** STAINLESS STEEL / ALUMINUM  
**FINISH:** SELF-COLOR  
**WEIGHT:** 0.28 Kg / 0.61 LBS





**MODEL 5004-UP-7-W/1218**

**UNLOCKING POLE ASSEMBLY / KIT**  
7' x O.D. 1.25" Aluminum Pole  
w/ Galvanized Steel Head  
**WEIGHT:** 1.5 Kg / 3.31 LBS

**MODEL 5004-UP-14-W/1218**

**UNLOCKING POLE ASSEMBLY / KIT**  
14' x O.D. 1.25" Aluminum Pole  
w/ Galvanized Steel Head  
**WEIGHT:** 2.55 Kg / 5.62 LBS

**MODEL 5004-1218**

**GALVANIZED STEEL HEAD ONLY**  
**WEIGHT:** 0.43 Kg / 0.95 LBS

**MODEL 5004-UP-7-1.25**

**7' ALUMINUM POLE ONLY**  
**1.25" O.D. POLE**  
**WEIGHT:** 1.05 Kg / 2.31 LBS

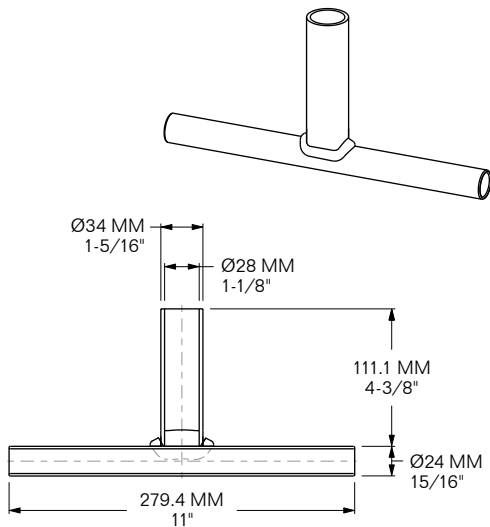
**MODEL 5004-UP-14-1.25**

**14' ALUMINUM POLE ONLY**  
**1.25" O.D. POLE**  
**WEIGHT:** 2.1 Kg / 4.62 LBS

5004

**MODEL 5004-1628**

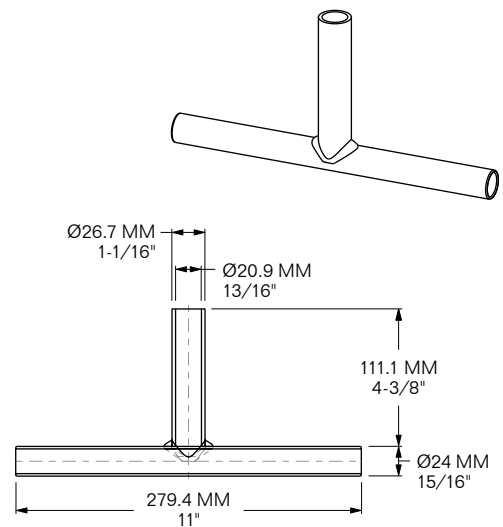
**T-HANDLE FOR UNLOCKING POLES**  
Fits 1-1/2" Tube



**MATERIAL:** GALVANIZED STEEL  
**WEIGHT:** 0.55 Kg / 1.2 LBS

**MODEL 5004-7723**

**T-HANDLE FOR UNLOCKING POLES**  
Fits 1-1/4" Tube



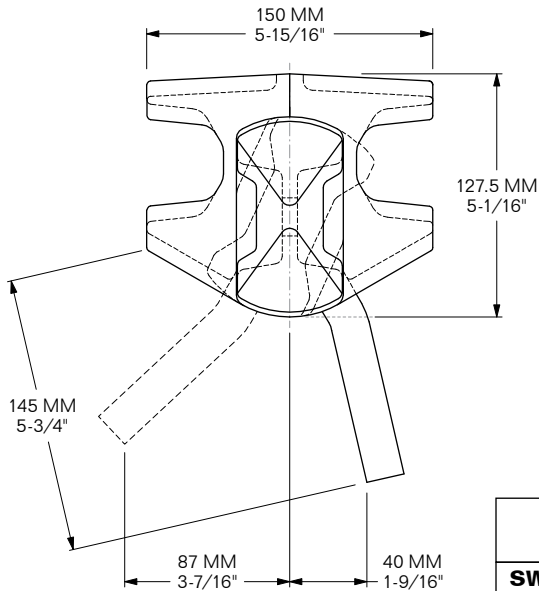
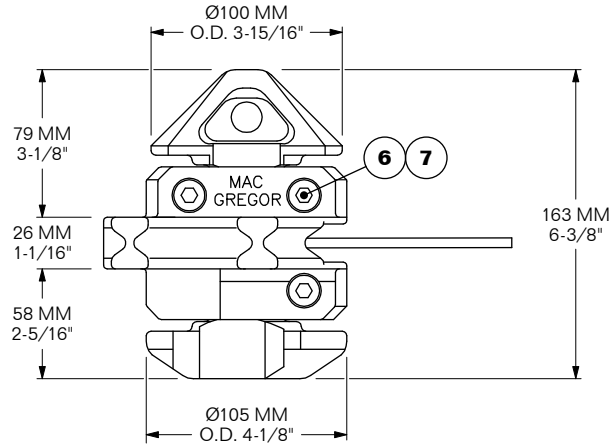
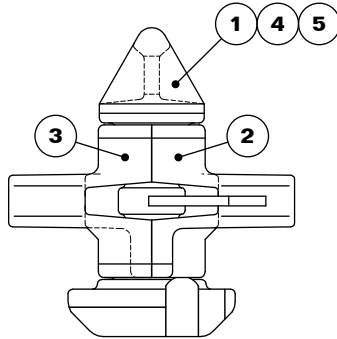
**MATERIAL:** GALVANIZED STEEL  
**WEIGHT:** 0.49 Kg / 1.07 LBS





**MODEL 5005-CV-8G-LL**

**LEFT-LOCKING**  
SAP 1065830



**NOT AVAILABLE AS RIGHT-LOCKING.**

**MATERIAL:** CAST STEEL HOUSING, FORGED STEEL STEM/SHAFT, STAINLESS STEEL SPRING  
**FINISH:** HOT-DIP GALVANIZED (HDG)  
**WEIGHT:** 5.29 Kg / 11.68 LBS

	TENSION (kN)	SHEAR (kN)	COMPRESSION (kN)	COMPRESSION LR ONLY (kN)
<b>SWL</b>	250	210	1,150	1,150
<b>PL</b>	375	315	1,438	1,350
<b>BL</b>	500	420	2,000	1,550

ITEM	QTY.	MODEL	DESCRIPTION	WEIGHT/EA.
1	1	<b>5005-CV-8-1093564</b>	Stem/Shaft w/ Handle (left-locking)	2 Kg / 4.41 LBS
2	1	<b>5005-CV-8G-K103937</b>	Left Housing Half (round cavities)	1.5 Kg / 3.3 LBS
3	1	<b>5005-CV-8G-K103936</b>	Right Housing Half (hex cavities)	1.5 Kg / 3.3 LBS
4	1	<b>5005-CV-8-1010771</b>	Detent Ball, 16mm	0.01 Kg / 0.02 LBS
5	1	<b>5005-CV-8-1010789</b>	Detent Spring, Stainless Steel	0.01 Kg / 0.01 LBS
6	3	<b>5005-CV-8-1044786</b>	Socket Head Cap Screw, M10 x 35	0.03 Kg / 0.06 LBS
7	3	<b>5002-CV-20-1080141</b>	Hex Nut, M10	0.01 Kg / 0.03 LBS

**5005**



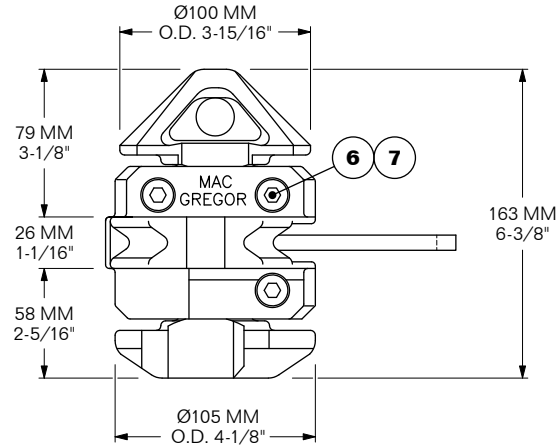
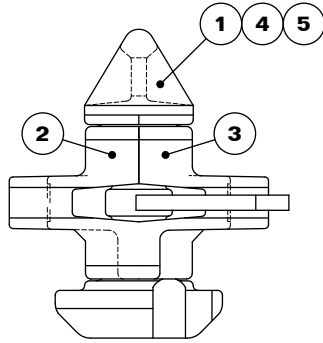


**MODEL 5005-CV-8-LL**

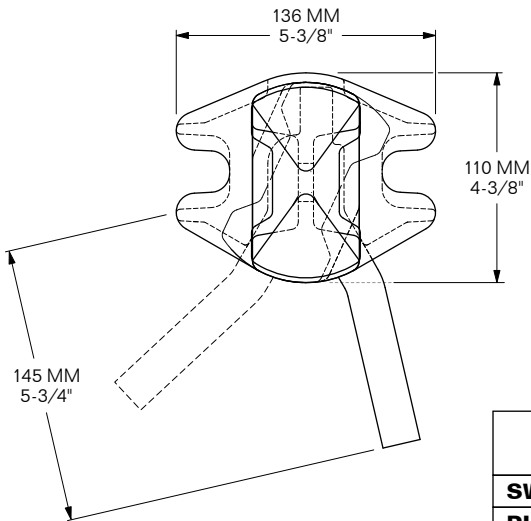
**LEFT-LOCKING**, SAP 1020835

**MODEL 5005-CV-8R-RL**

**RIGHT-LOCKING**, SAP 1070783



5005



LEFT-LOCKING MODEL SHOWN.

**MATERIAL:** CAST STEEL HOUSING, FORGED STEEL STEM/SHAFT, STAINLESS STEEL SPRING  
**FINISH:** HOT-DIP GALVANIZED (HDG)  
**WEIGHT:** 4.89 Kg / 10.8 LBS

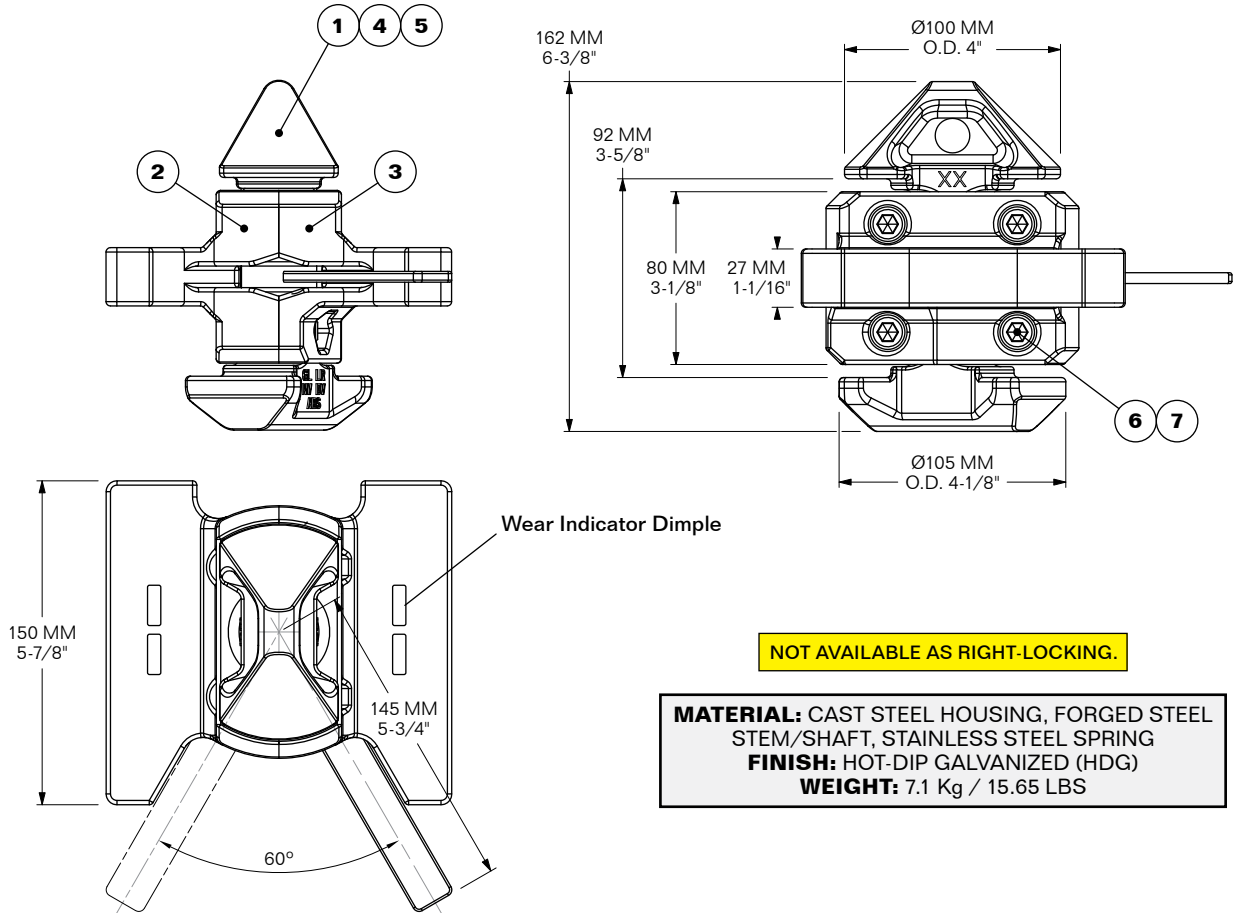
	TENSION (kN)	SHEAR (kN)	COMPRESSION (kN)	COMPRESSION LR ONLY (kN)
<b>SWL</b>	250	210	1,150	1,150
<b>PL</b>	375	315	1,438	1,350
<b>BL</b>	500	420	2,000	1,550

ITEM	QTY.	MODEL	DESCRIPTION	WEIGHT/EA.
1	1	<b>5005-CV-8-1093564</b>	Stem/Shaft w/ Handle (left-locking)	2 Kg / 4.41 LBS
1	1	<b>5005-CV-8-1093564R</b>	Stem/Shaft w/ Handle (right-locking)	2 Kg / 4.41 LBS
2	1	<b>5005-CV-8-K103932</b>	Left Housing Half (round cavities)	1.3 Kg / 2.86 LBS
3	1	<b>5005-CV-8-K103933</b>	Right Housing Half (hex cavities)	1.3 Kg / 2.86 LBS
4	1	<b>5005-CV-8-1010771</b>	Detent Ball, 16mm	0.01 Kg / 0.02 LBS
5	1	<b>5005-CV-8-1010789</b>	Detent Spring, Stainless Steel	0.01 Kg / 0.01 LBS
6	3	<b>5005-CV-8-1044786</b>	Socket Head Cap Screw, M10 x 35	0.03 Kg / 0.06 LBS
7	3	<b>5002-CV-20-1080141</b>	Hex Nut, M10	0.01 Kg / 0.03 LBS



**MODEL 5005-CV-8B-LL**

**LEFT-LOCKING**  
SAP 1081129



**5005**

	<b>TENSION</b> (kN)	<b>SHEAR</b> (kN)	<b>COMPRESSION</b> (kN)	<b>COMPRESSION LR ONLY</b> (kN)
<b>SWL</b>	250	210	1,150	1,150
<b>PL</b>	375	315	1,438	1,350
<b>BL</b>	500	420	2,000	1,550

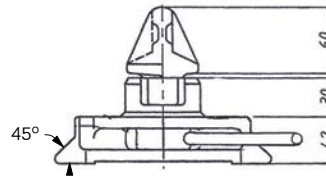
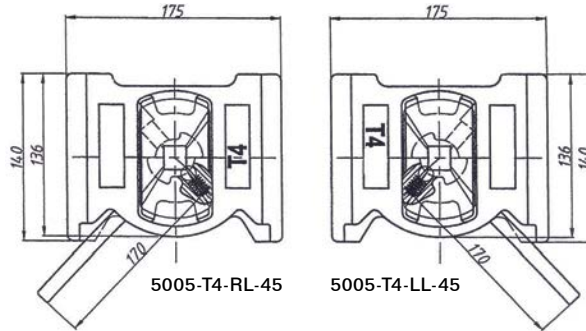
ITEM	QTY.	MODEL	DESCRIPTION	WEIGHT/EA.
1	1	<b>5005-CV-8B-K105004</b>	Stem/Shaft w/ Handle (left-locking)	2.11 Kg / 4.65 LBS
2	1	<b>5005-CV-8B-K105005</b>	Left Housing Half (round cavities)	2.47 Kg / 5.45 LBS
3	1	<b>5005-CV-8B-K105006</b>	Right Housing Half (hex cavities)	2.43 Kg / 5.35 LBS
4	1	<b>5005-CV-8-1010771</b>	Detent Ball, 16mm	0.01 Kg / 0.02 LBS
5	1	<b>5005-CV-8-1010789</b>	Detent Spring, Stainless Steel	0.01 Kg / 0.01 LBS
6	4	<b>5005-CV-8-1044786</b>	Socket Head Cap Screw, M10 x 35	0.03 Kg / 0.06 LBS
7	4	<b>5002-CV-20-1080141</b>	Hex Nut, M10	0.01 Kg / 0.03 LBS



**MODEL 5005-T4-LL-45**

**MODEL 5005-T4-RL-45**

**45°, STRAIGHT HANDLE**

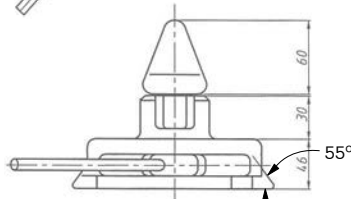
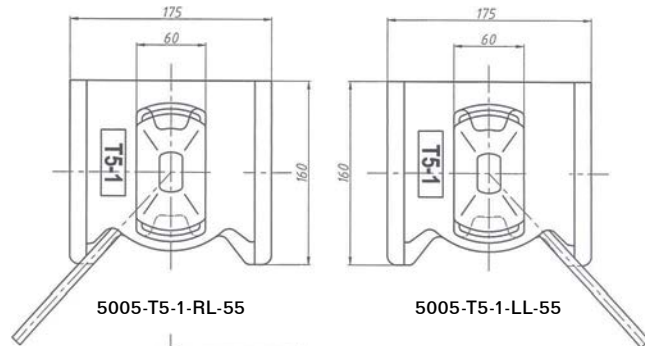


5005

**MODEL 5005-T5-1-LL-55**

**MODEL 5005-T5-1-RL-55**

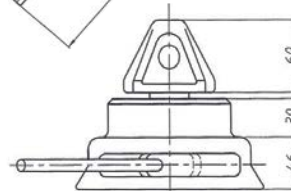
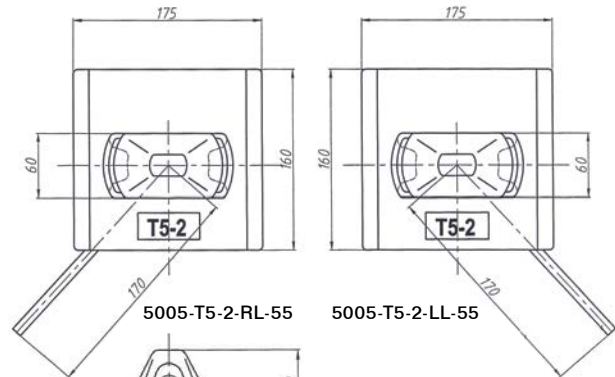
**55°, STANDARD**



**MODEL 5005-T5-2-LL-55**

**MODEL 5005-T5-2-RL-55**

**55°, TRANSVERSAL**



MODEL	WEIGHT
<b>5005-T4-LL-45 / 5005-T4-RL-45</b>	6.6 Kg / 14.6 LBS
<b>5005-T5-1-LL-55 / 5005-T5-1-RL-55</b>	7.2 Kg / 15.9 LBS
<b>5005-T5-2-LL-55 / 5005-T5-2-RL-55</b>	8.2 Kg / 18.1 LBS

**MIN. B.L. TENSION:** 50 M. TON **MIN. B.L. SHEAR:** 42 M. TON

**MATERIAL:** CAST STEEL HOUSING, FORGED STEEL STEM/SHAFT, STAINLESS STEEL SPRING  
**FINISH:** HOT-DIP GALVANIZED (HDG) **CLASS APPROVAL:** CAN BE SUPPLIED w/ CLASSIFICATION SOCIETY APPROVAL

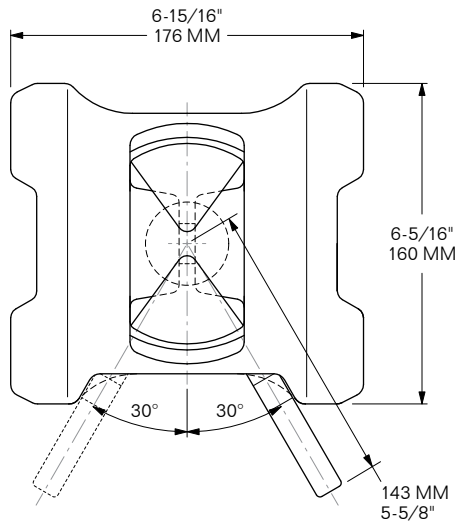
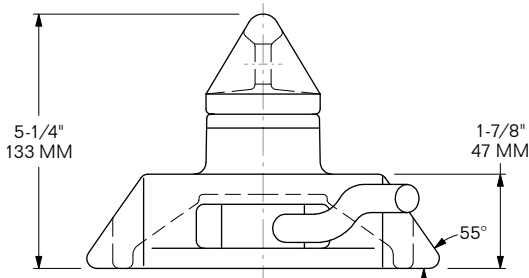


MODEL 5005-CV-2N-LL-55  
Isometric View



**MODEL 5005-CV-2N-LL-55**

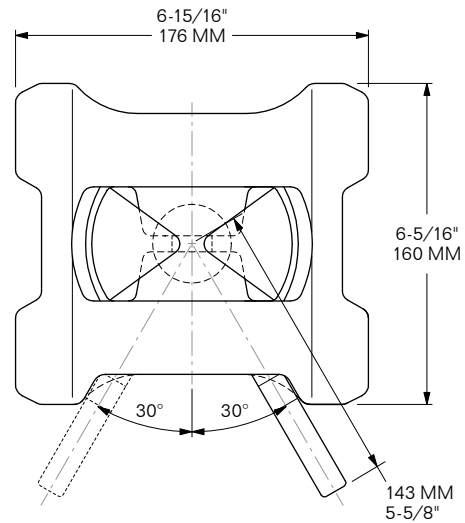
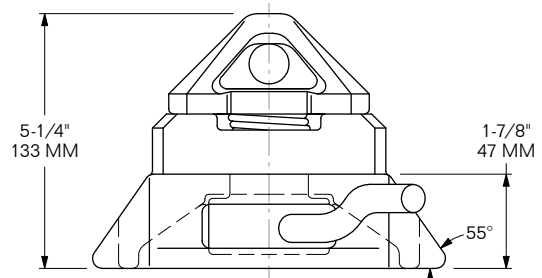
55°, Standard Longitudinal, Left-locking



**MODEL 5005-CV-5N-LL-55**

55°, Transversal, Left-locking

**SPECIAL ORDER ONLY**



**5005**

These twistlocks work with the APT dovetail foundation, which makes them easy to attach and detach, leaving only the fixed frame.

MODEL	SAP #	WEIGHT	DRAWING #
<b>5005-CV-2N-LL-55</b>	1034841	7.2 Kg / 15.8 LBS	K103880
<b>5005-CV-5N-LL-55</b>	1043896	6.7 Kg / 14.8 LBS	K103885

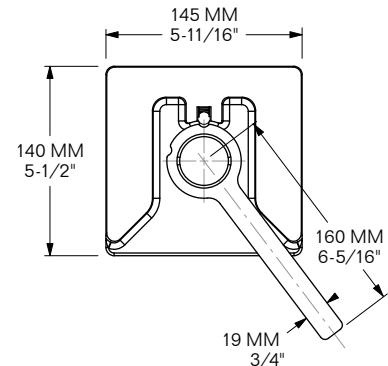
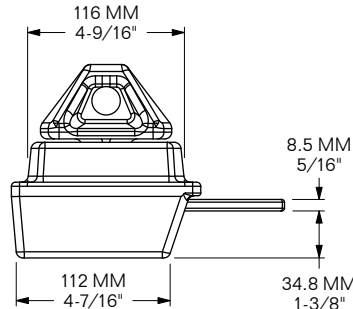
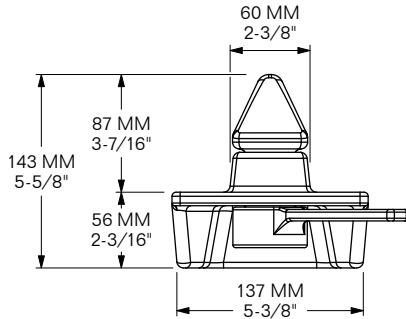
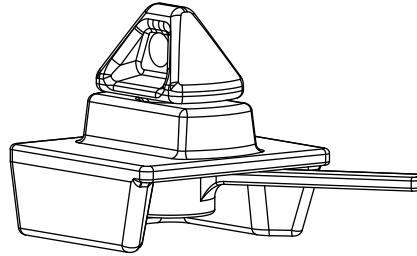
**MIN. B.L. TENSION:** 50 M. TON **MIN. B.L. SHEAR:** 42 M. TON

**MATERIAL:** CAST STEEL HOUSING, FORGED STEEL STEM/SHAFT, STAINLESS STEEL SPRING  
**FINISH:** HOT-DIP GALVANIZED (HDG) **CLASS APPROVAL:** CAN BE SUPPLIED w/ CLASSIFICATION SOCIETY APPROVAL



**MODEL 5005-C44B-LL**

**WELD-DOWN TWISTLOCK**  
Left-locking



**MIN. B.L. TENSION: 40 M. TON MIN. B.L. SHEAR: 42 M. TON**

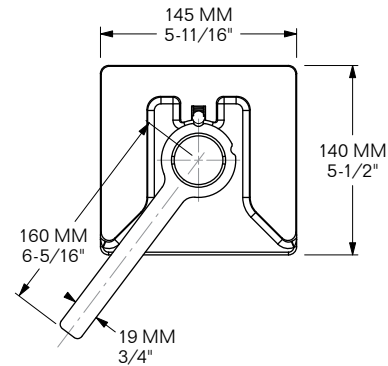
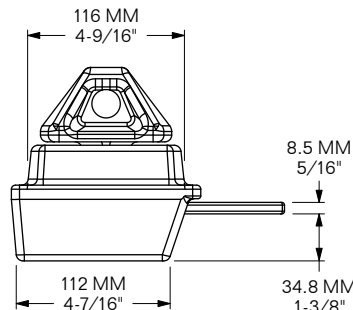
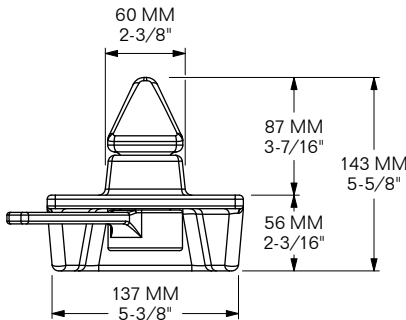
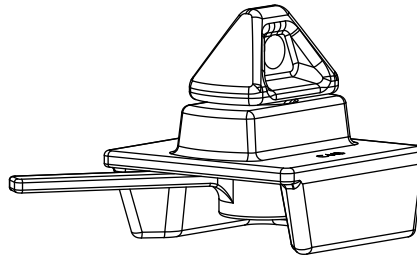
**ALLSET DRAWING #: 03111**  
**FINISH: HOT-DIP GALVANIZED (HDG)**  
**WEIGHT: 15.87 LBS / 7.2 Kg**

**5005**



**MODEL 5005-C44B-RL**

**WELD-DOWN TWISTLOCK**  
Right-locking

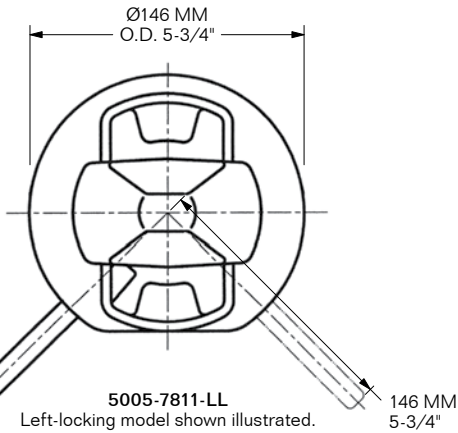
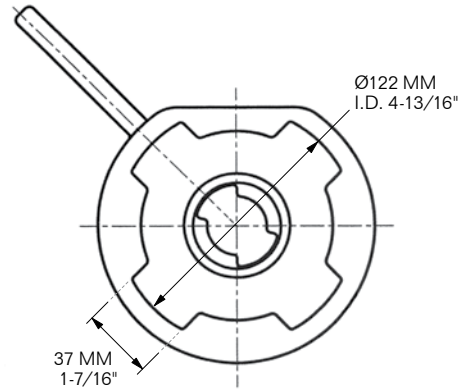
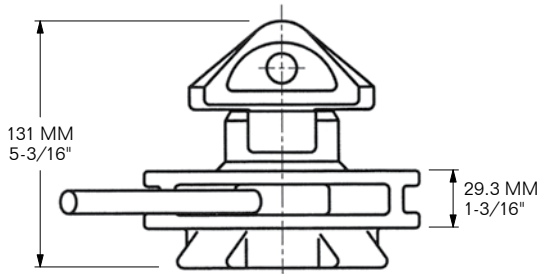


**MIN. B.L. TENSION: 40 M. TON MIN. B.L. SHEAR: 42 M. TON**

**ALLSET DRAWING #: 03370**  
**FINISH: HOT-DIP GALVANIZED (HDG)**  
**WEIGHT: 15.87 LBS / 7.2 Kg**

**MODEL 5005-7811-LL**

**MODEL 5005-7811-RL**



**5005-7811-LL**  
Left-locking model shown illustrated.

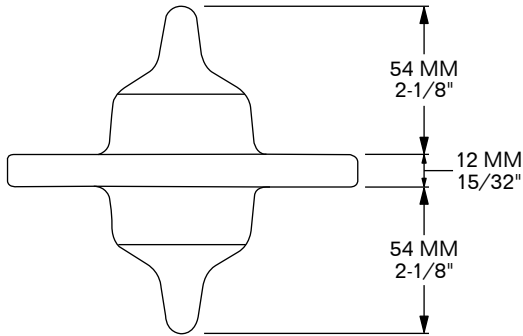
**MIN. B.S.:** TENSION 34 M. TON,  
SHEAR 45 M. TON, COMPRESSION 100 M. TON

**SUB FOR:** PECK & HALE F656-L-C / F656-R-C,  
CONTAINER TECHNICS B-22L / B-22R  
**WORKS WITH:** BUFFERS 5011-7812 SOCKET FRAME  
**FINISH:** HOT-DIP GALVANIZED (HDG)  
**WEIGHT:** 6.2 Kg / 13.6 LBS

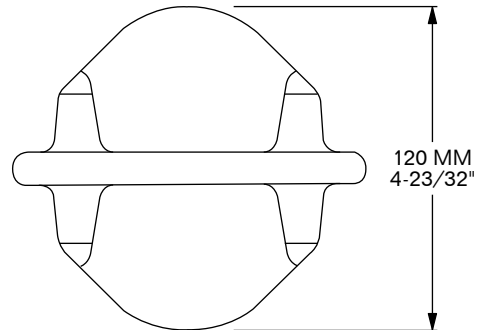
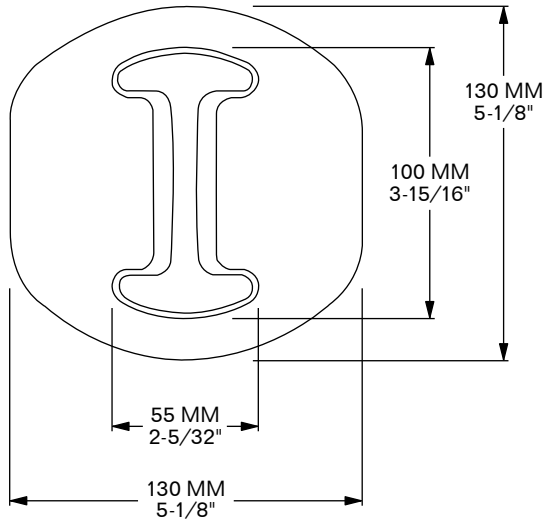
**5005**



**MODEL 5006-C15A**



**5006**



**MIN. B.L. SHEAR: 40 M. TON**

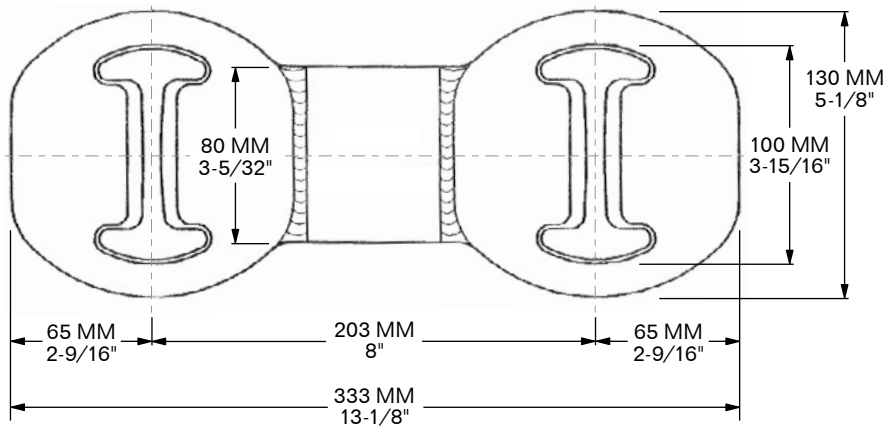
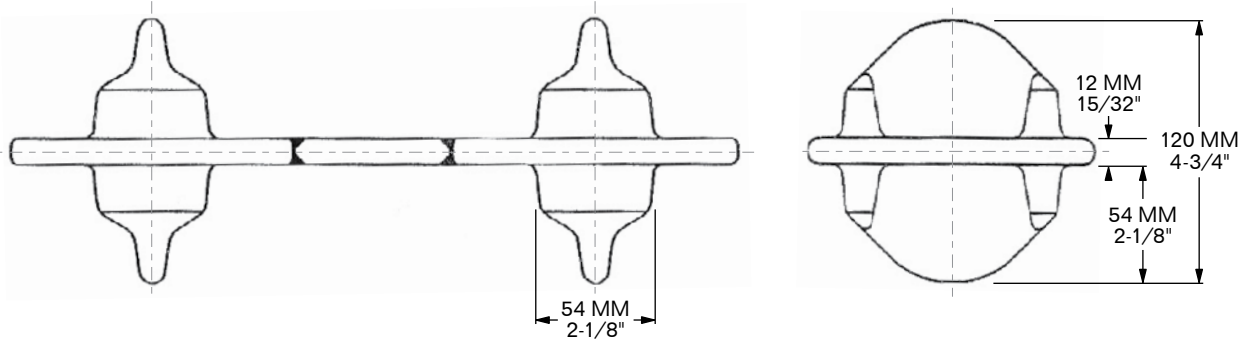
**MATERIAL: FORGED STEEL**  
**FINISH: HOT-DIP GALVANIZED (HDG)**  
**WEIGHT: 2.65 Kg / 5.85 LBS**





**MODEL 5006-C92A-203**

**GIVES 1" SPACE BETWEEN SIDES OF CONTAINERS**



**5006**

**MIN. B.L. TENSION:** 40 M. TON

**MATERIAL:** FORGED STEEL, WELDED  
**FINISH:** HOT-DIP GALVANIZED (HDG)  
**WEIGHT:** 6.1 Kg / 13.5 LBS

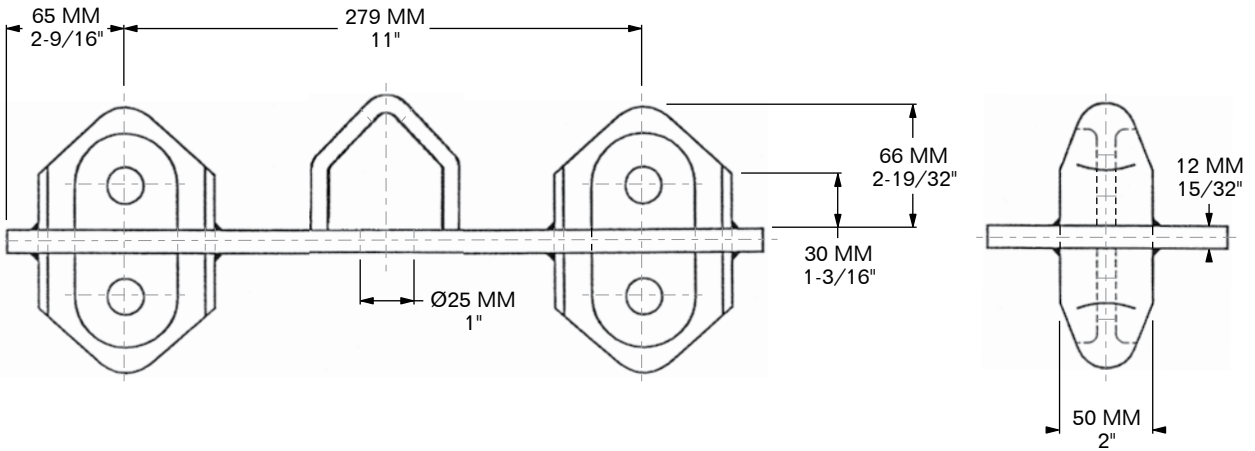




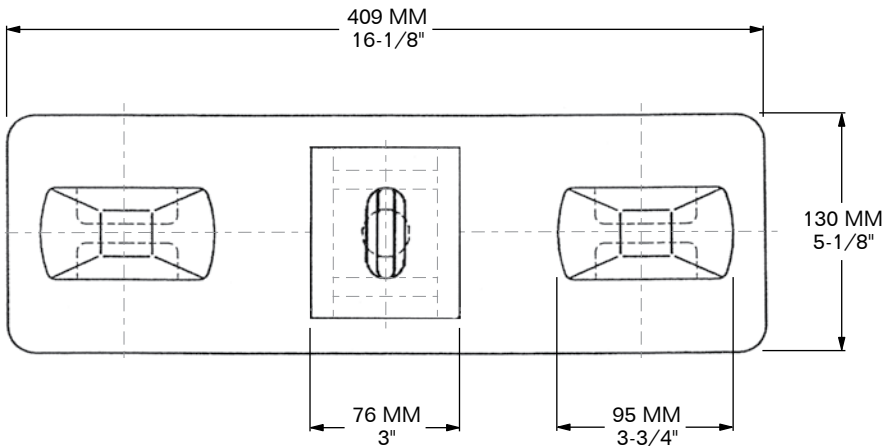


**MODEL 5006-C9B-279E**

**GIVES 3" SPACE BETWEEN ENDS OF 20' CONTAINERS**



**5006**



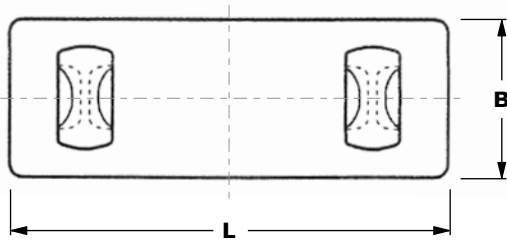
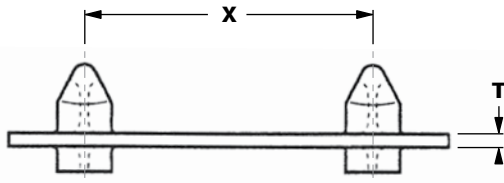
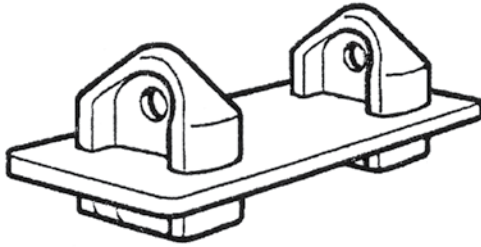
**MIN. B.L. TENSION: 40 M. TON**  
**MIN. B.L. COMPRESSION: 40 M. TON**

**MATERIAL: FORGED STEEL**  
**FINISH: HOT-DIP GALVANIZED (HDG)**  
**WEIGHT: 8.0 Kg / 17.65 LBS**

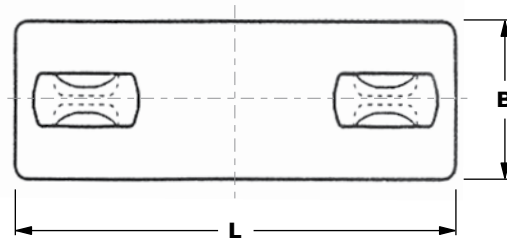
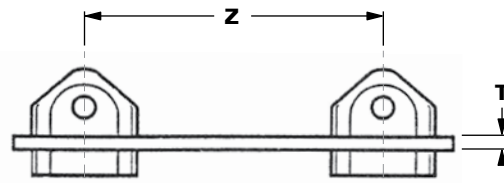
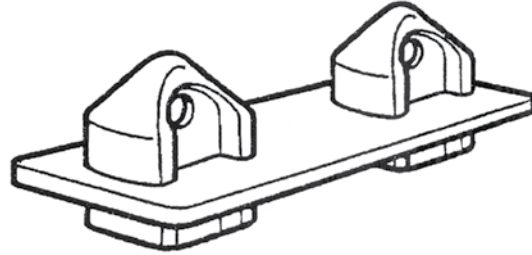




**MODEL 5006-C9A-B**  
DOUBLE, TRANSVERSAL



**MODEL 5006-C9B-B**  
DOUBLE, LONGITUDINAL



5006

MODEL	TENSION BREAKING LOAD (M. TON)	SHEAR BREAKING LOAD (M. TON)	DIMENSIONS					WEIGHT
			X	Z	L	B	T	
<b>5006-C9A-203B</b>	36	42	203 MM 8"	-	333 MM 13-1/8"	130 MM 5-1/8"	12 MM 15/32"	6.6 Kg 14.6 LBS
<b>5006-C9A-258B</b>	36	42	258 MM 10-5/32"	-	338 MM 13-5/16"	130 MM 5-1/8"	12 MM 15/32"	7.3 Kg 16.1 LBS
<b>5006-C9B-279B</b>	36	42	-	279 MM 11"	409 MM 16-1/8"	130 MM 5-1/8"	12 MM 15/32"	7.7 Kg 17 LBS

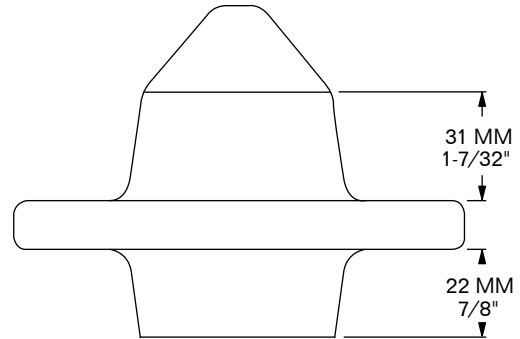
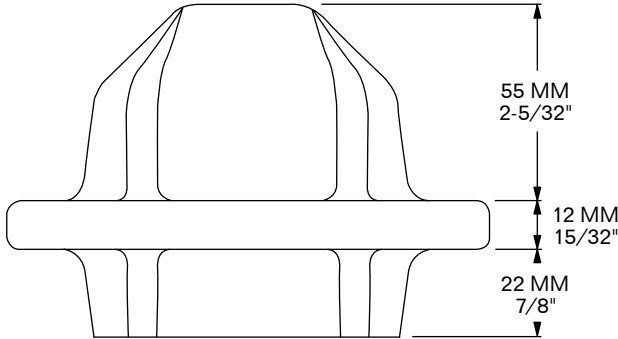
**CLASS APPROVED**

**MATERIAL:** FORGED STEEL, WELDED  
**FINISH:** HOT-DIP GALVANIZED (HDG)

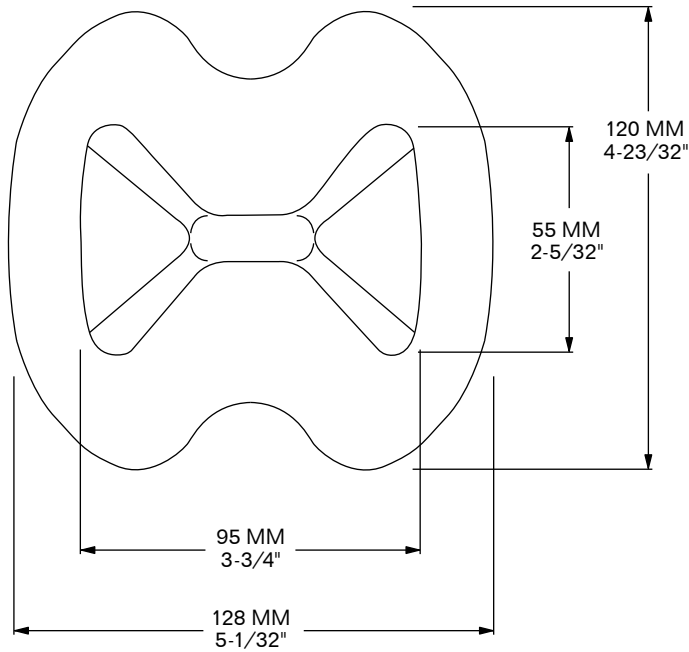




**MODEL 5006-3348-00**



**5006**



**MIN. B.L. SHEAR: 40 M. TON**

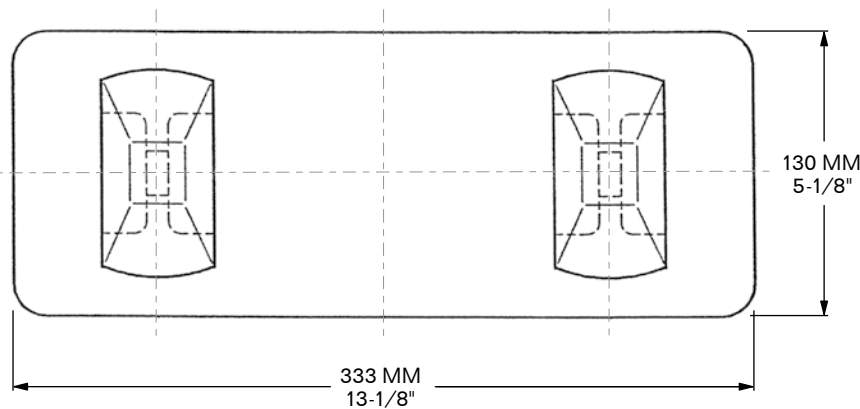
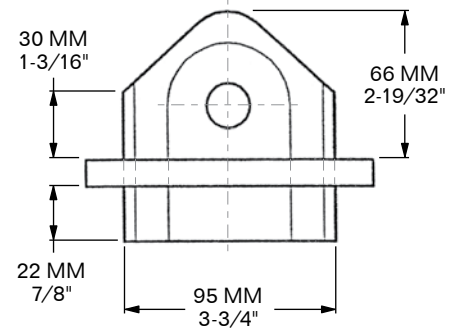
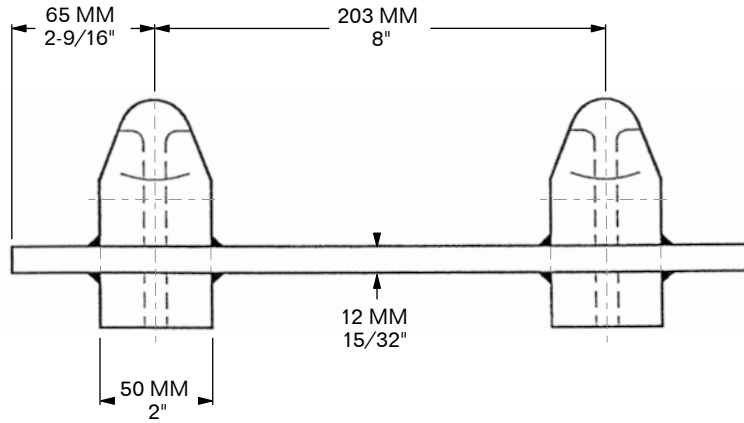
**FINISH: HOT-DIP GALVANIZED (HDG)**  
**WEIGHT: 2.5 Kg / 5.6 LBS**





**MODEL 5006-C9A-203B**

**GIVES 1" SPACE BETWEEN SIDES OF CONTAINERS**



**5006**

**MIN. B.L. SHEAR:** 42 M. TON

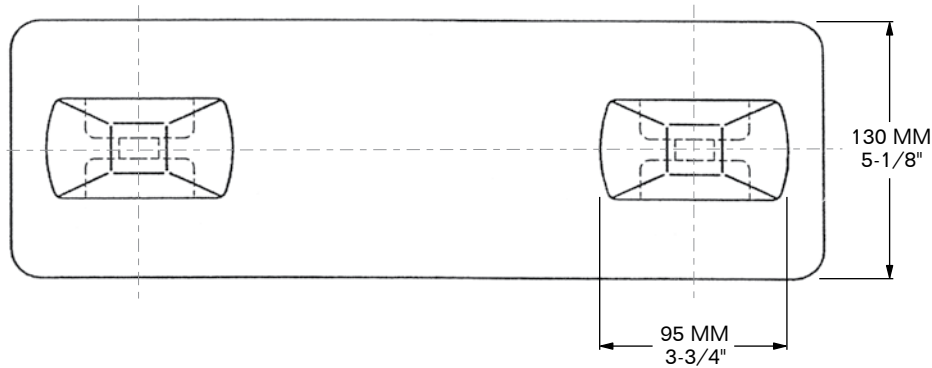
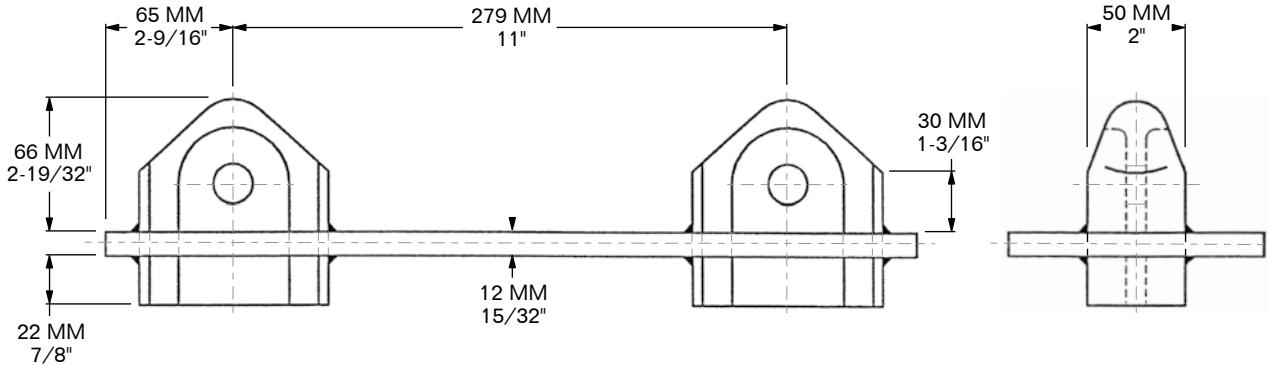
**MATERIAL:** FORGED STEEL  
**FINISH:** HOT-DIP GALVANIZED (HDG)  
**WEIGHT:** 7.6 Kg / 16.75 LBS





**MODEL 5006-C9B-279B**

**GIVES 3" SPACE BETWEEN ENDS OF 20' CONTAINERS**



**5006**

**MIN. B.L. SHEAR: 42 M. TON**  
**MIN. B.L. TENSION: 36 M. TON**

**MATERIAL: FORGED STEEL**  
**FINISH: HOT-DIP GALVANIZED (HDG)**  
**WEIGHT: 7.0 Kg / 15.4 LBS**

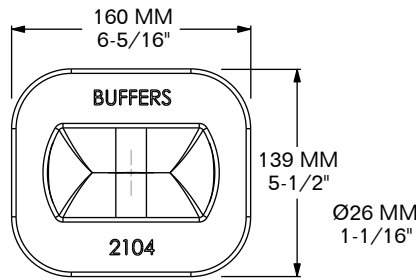


**5006-2104-KIT**  
LOCKING CONE & PIN  
SOLD AS A KIT OR SEPARATELY

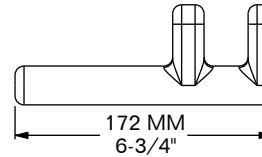
**MODEL 5006-2104-KIT**

**MODEL 5006-2104-1**

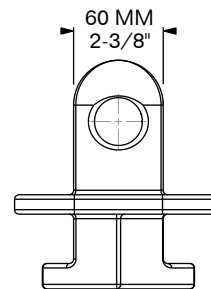
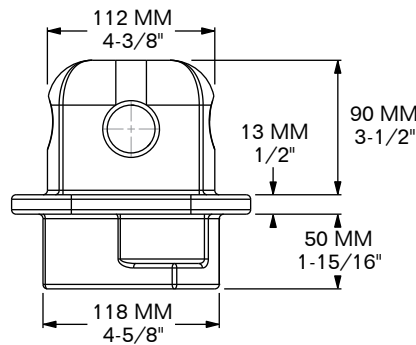
**MODEL 5006-2104-2**



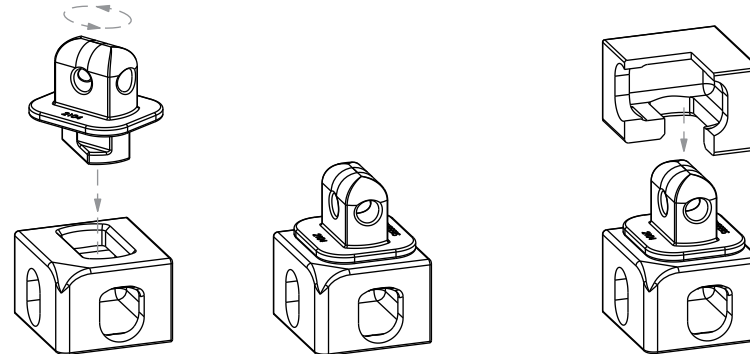
Ø26 MM  
1-1/16"



**5006-2104-2**  
LOCKING PIN, GRAVITY

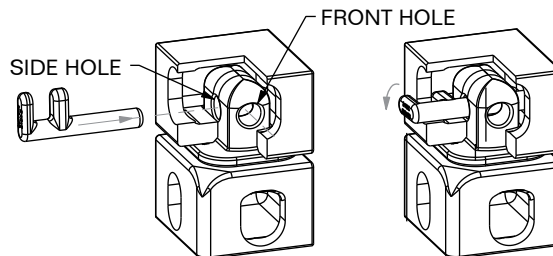


**5006-2104-1**  
LOCKING CONE



DROP LOCKING CONE INTO CONTAINER CORNER CASTING, AND TWIST CLOCKWISE TO LOCK.

LOAD CONTAINER ONTO LOCKING CONE.



PUSH LOCKING PIN INTO CORNER CASTING SIDE OR FRONT HOLE UNTIL IT STOPS AND ROTATE THE PIN TO THE LEFT OR RIGHT.

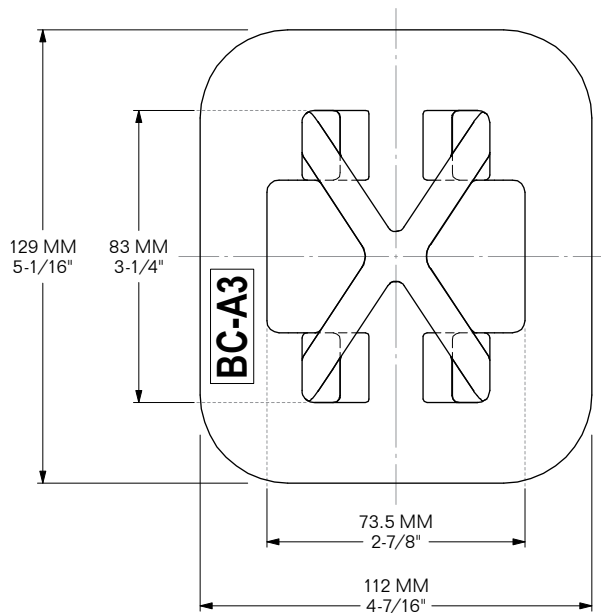
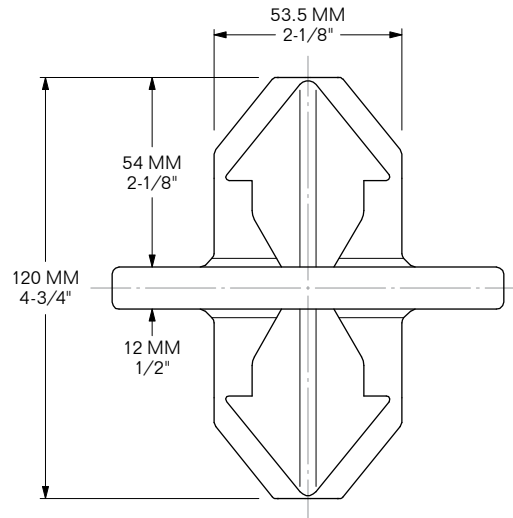
**MATERIAL:** CAST STEEL **FINISH:** HOT-DIP GALVANIZED (HDG) **WEIGHT:** 7.68 Kg / 16.95 LBS

**5006**



**MODEL 5006-BC-A3/C**

**CAST STEEL**

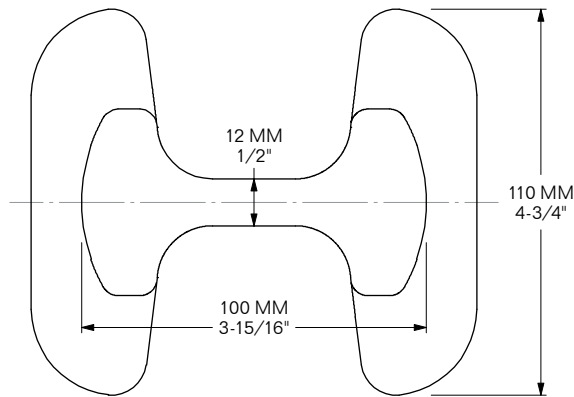
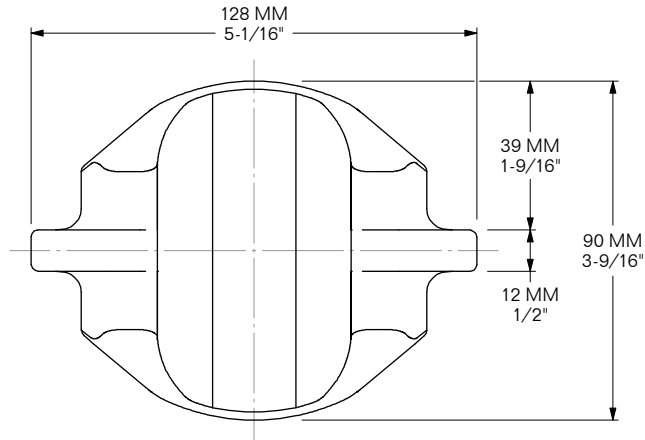


**MIN. B.L. SHEAR:** 42 M. TON  
**MIN. B.L. COMPRESSION:** 80 M. TON

**FINISH:** CAST STEEL  
**FINISH:** HOT-DIP GALVANIZED (HDG)  
**WEIGHT:** 2.3 Kg / 5.07 LBS

**MODEL 5006-BC-A3/D**

**FORGED STEEL**



**MIN. B.L. SHEAR:** 42 M. TON  
**MIN. B.L. COMPRESSION:** 80 M. TON

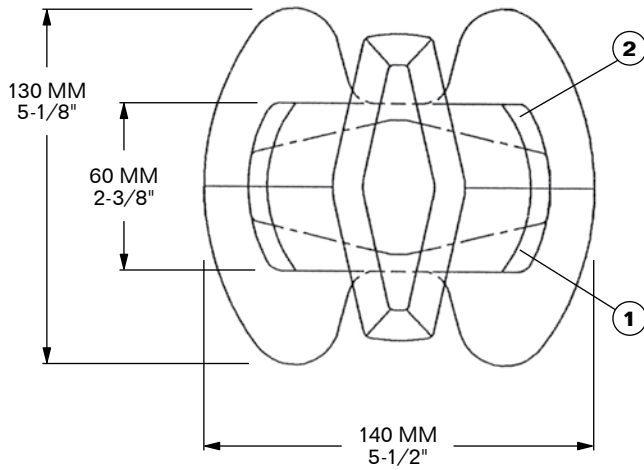
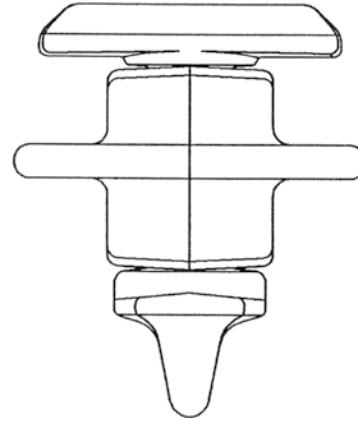
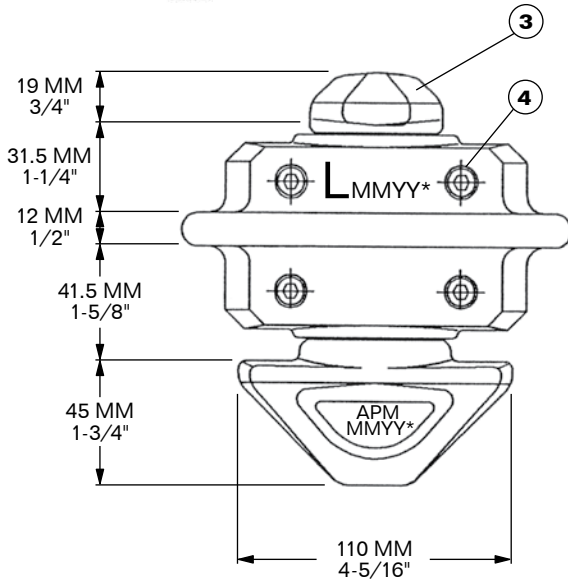
**FINISH:** FORGED STEEL  
**FINISH:** HOT-DIP GALVANIZED (HDG)  
**WEIGHT:** 2.2 Kg / 4.78 LBS





**MODEL 5006-C16A**

**FORGED**  
**APM #332751**



**NOTES:**  
BOLTS TO BE TIGHTENED TO 74 Nm.  
\*PRODUCTION CODE: YEAR & MONTH

ITEM	QTY	MODEL	APM #	DESCRIPTION	WEIGHT
1	1	<b>5006-C16A-1</b>	-	HOUSING, LEFT SIDE	1.11 Kg / 2.45 LBS
2	1	<b>5006-C16A-2</b>	-	HOUSING, RIGHT SIDE	1.18 Kg / 2.60 LBS
3	1	<b>5006-C16A-3</b>	-	SHAFT WITH TWIST SPRING	1.60 Kg / 3.55 LBS
4	4	<b>5006-C5AM-DF-8</b>	334177	CAP SCREW M8 x 45	0.02 Kg / 0.05 LBS

**MIN. B.L. SHEAR: 42 M. TON**

**MATERIAL: STEEL**  
**FINISH: HOT-DIP GALVANIZED (HDG)**  
**WEIGHT: 4.2 Kg / 9.25 LBS**

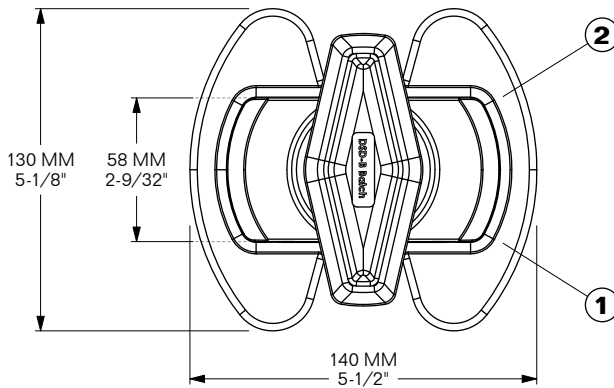
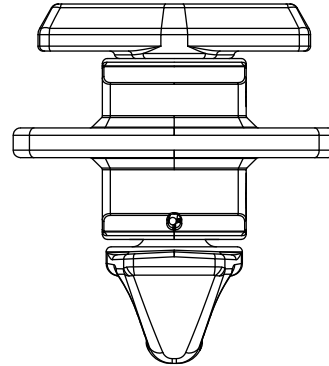
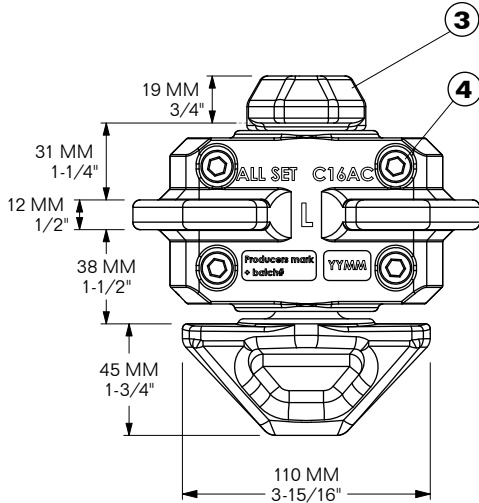
**5006**





**MODEL 5006-C16A-C**

**CAST STEEL**  
APM #433644



**NOTES:**  
Bolts to be tightened to 74 Nm.  
Production Code: Year & Month (YYMM)

ITEM	QTY.	MODEL	APM #	DESCRIPTION	WEIGHT
1	1	<b>5006-C16A-C-004936</b>	—	Housing (left side)	1.11 Kg / 2.45 LBS
2	1	<b>5006-C16A-C-004937</b>	—	Housing (right side)	1.18 Kg / 2.6 LBS
3	1	<b>5006-C16A-C-004938/39</b>	—	Shaft w/ Twist Spring	1.6 Kg / 3.55 LBS
4	4	<b>5006-C16A-C-5</b>	—	Cap Screw, M8 x 30	0.02 Kg / 0.05 LBS

**MIN. B.L. SHEAR: 42 M. TON**

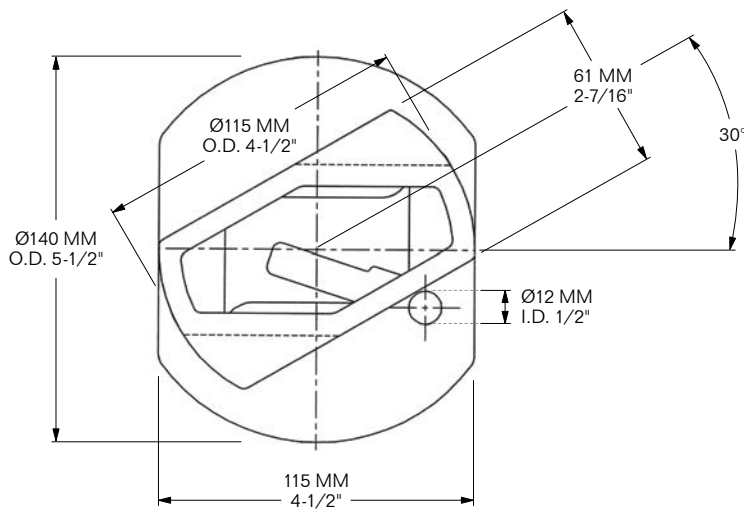
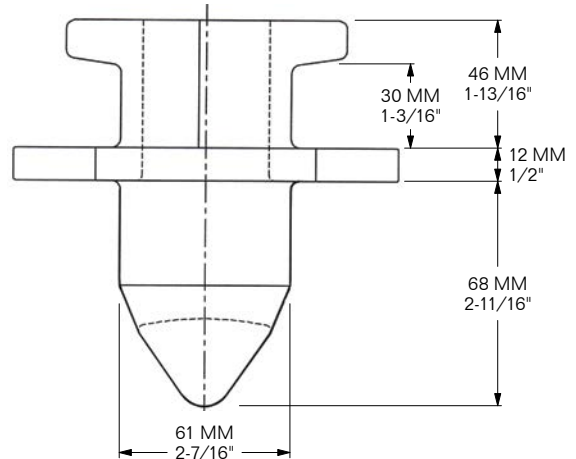
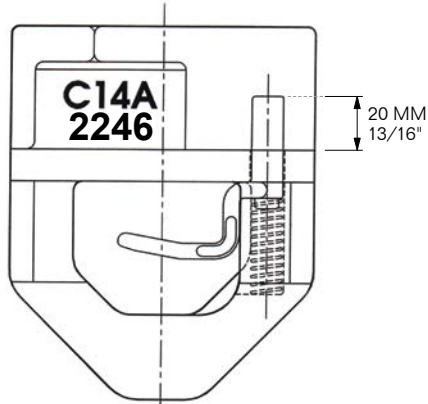
**MATERIAL: CAST STEEL**  
**FINISH: HOT-DIP GALVANIZED (HDG)**  
**WEIGHT: 4.2 Kg / 9.25 LBS**

**5006**





**MODEL 5006-C14A**  
**CAST STEEL**



**5006**

**MIN. B.L. SHEAR: 40 M. TON**

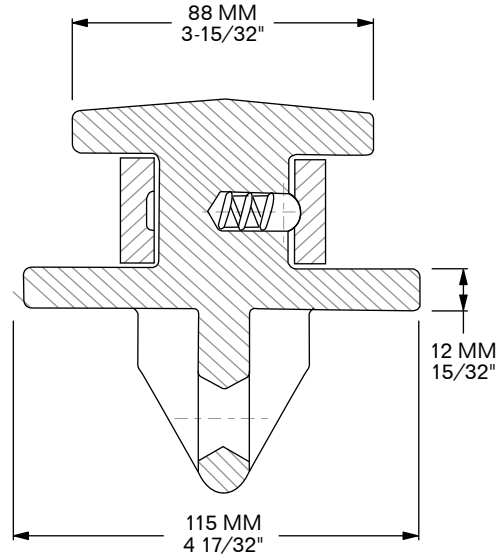
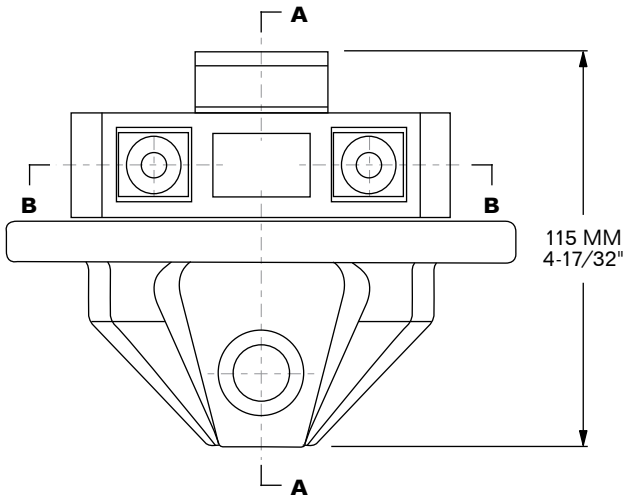
**MATERIAL: CAST STEEL**  
**FINISH: HOT-DIP GALVANIZED (HDG)**  
**WEIGHT: 3 Kg / 6.6 LBS**



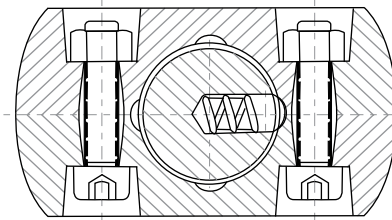
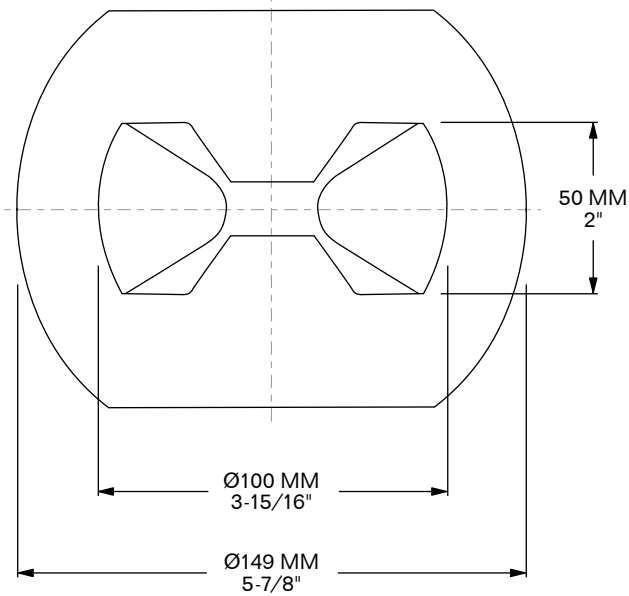


**MODEL 5006-C10A-HS-TS/S**

**CAST STEEL**



**A-A**



**B-B**

**MIN. B.L. SHEAR: 40 M. TON**

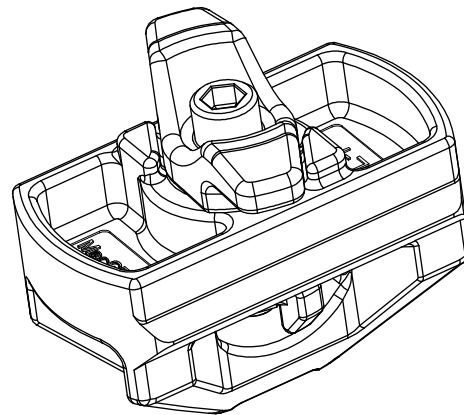
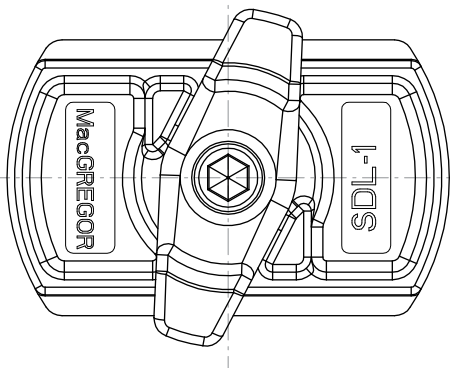
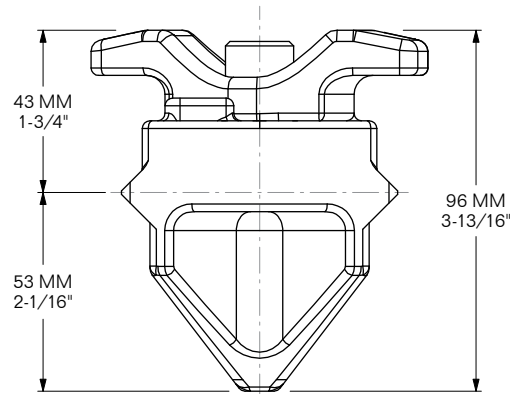
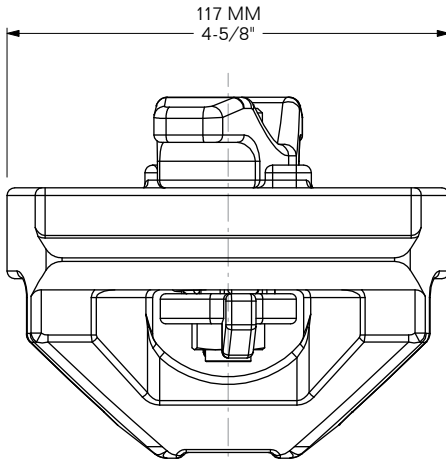
**MATERIAL: CAST STEEL**  
**FINISH: HOT-DIP GALVANIZED (HDG)**  
**WEIGHT: 3.9 Kg / 8.6 LBS**

**5006**





**MODEL 5006-SDL-1**  
**CAST STEEL**



**5006**

**NOTES:**

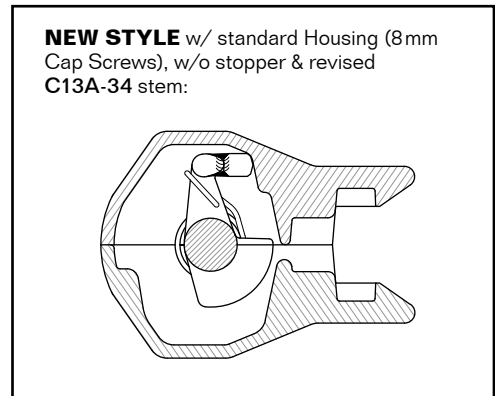
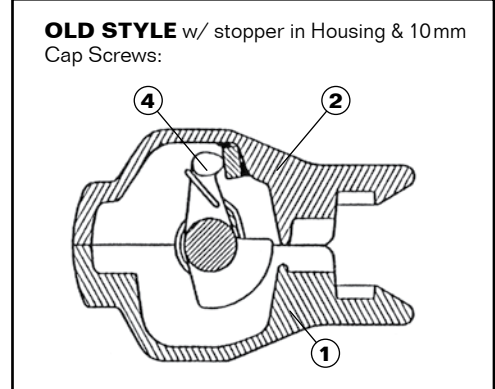
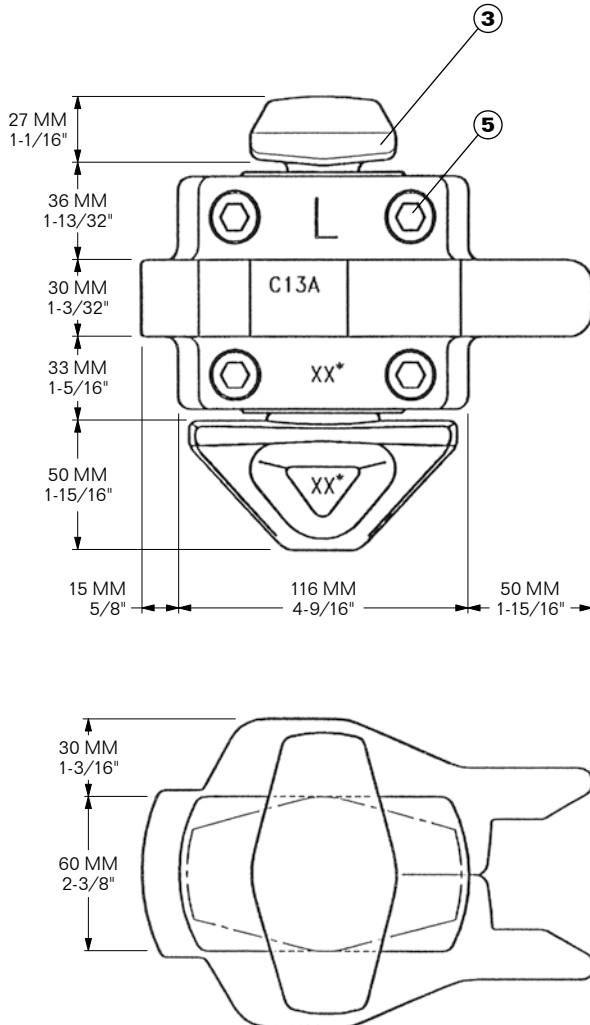
- Flangeless design gives lower stack center of gravity.
- Only one stacker per container end is required = 50% Inventory Reductions.

**REFERENCE #:** 1068830  
**MATERIAL:** CAST STEEL  
**FINISH:** HOT-DIP GALVANIZED (HDG)  
**WEIGHT:** 2.1 Kg / 4.63 LBS



**MODEL 5006-C13A**

**FORGED STEEL**



**NOTES:**

For use on dock in center positions on two 20' in one 40' space. Does not lock; positions only. Fitted and removed on dock.

Load Pad has same 30mm thickness as **C5AM** & **C5AM-DF** Semi-Automatic Twistlocks.

Bolts to be tightened to 74 Nm.

\*Production Code: YEAR & MONTH

ITEM	QTY.	MODEL	DESCRIPTION	WEIGHT
1	1	<b>5002-C5AM-DF-1/8-1181540</b>	Housing, Left Side, non-threaded (NEW style)	1.8 Kg / 3.9 LBS
2	1	<b>5006-C13A-2/8-1181541</b>	Housing, Right Side w/ 8mm thread (NEW style)	1.8 Kg / 3.9 LBS
3 & 4	1	<b>5006-C13A-34-REV</b>	Stem Kit w/ Twist Spring (NEW style)	2.3 Kg / 5.1 LBS
5	4	<b>5002-C5AM-DF-8-1120912</b>	Cap Screw, M8 x 45, HDG	0.09 Kg / 0.2 LBS

**MIN. B.L. SHEAR:** 42 M. TON

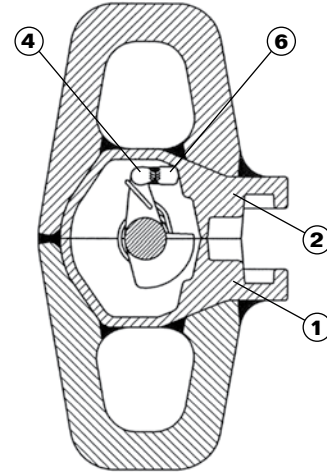
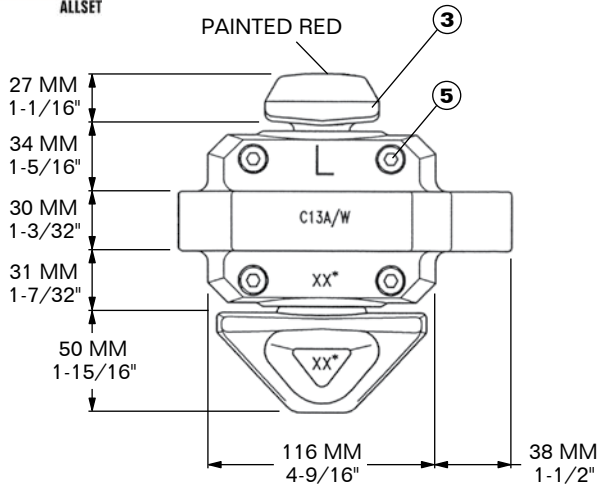
**MATERIAL:** FORGED STEEL  
**FINISH:** HOT-DIP GALVANIZED (HDG)  
**WEIGHT:** 5.68 Kg / 12.52 LBS

**5006**

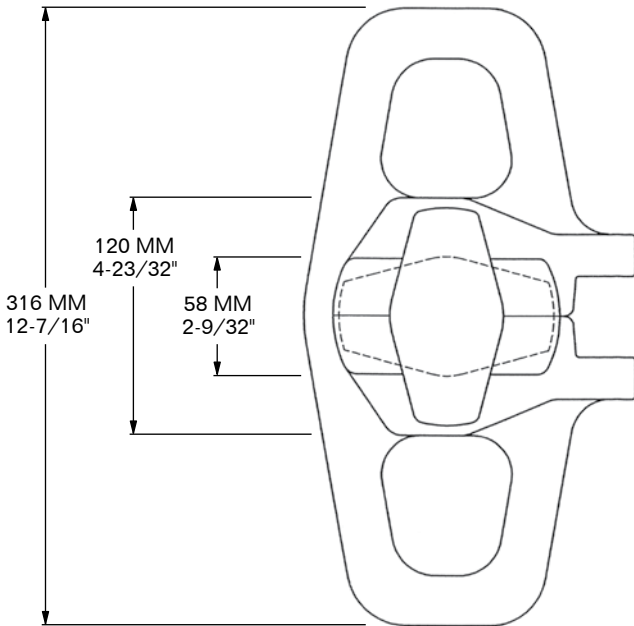




**MODEL 5006-C13A/W**



**5006**



**NOTES:**  
LOAD PAD HAS SAME THICKNESS AS  
**C5AM, C5AM-DF & C5AM-DF/W**  
TWISTLOCKS.

BOLTS TO BE TIGHTENED TO 26.6 Nm.

\*PRODUCTION CODE: YEAR & MONTH

ITEM	QTY	MODEL	DESCRIPTION	WEIGHT
1	1	<b>5006-C13A/W-1</b>	HOUSING, LEFT SIDE	4.17 Kg / 9.20 LBS
2	1	<b>5006-C13A/W-2</b>	HOUSING, RIGHT SIDE	4.17 Kg / 9.20 LBS
3, 4 & 6	1	<b>5006-C13A/W-346</b>	STEM w/ SPRING & STOPPER	2.35 Kg / 5.20 LBS
5	4	<b>5002-C5AM-DF-8</b>	BOLT M8 x 45	0.09 Kg / 0.20 LBS

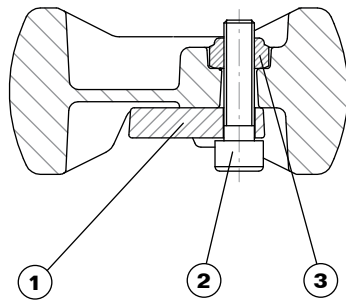
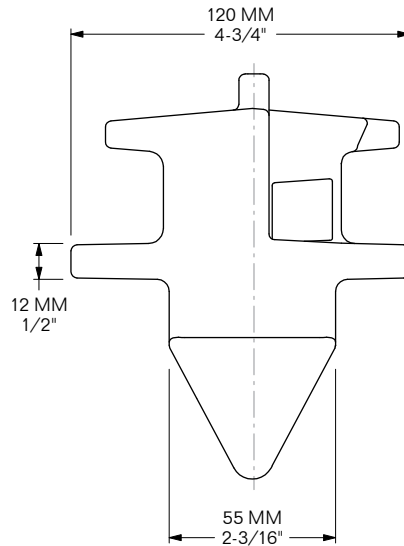
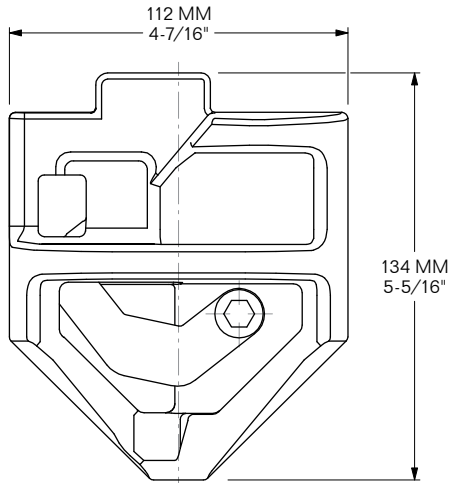
**MIN. B.L. SHEAR: 42 M. TON**

**MATERIAL: STEEL**  
**FINISH: HOT-DIP GALVANIZED (HDG)**  
**WEIGHT: 10.99 Kg / 24.25 LBS**





**MODEL 5006-SDL-4**  
**CAST STEEL**



ITEM	QTY.	REFERENCE #	DESCRIPTION
1	1	1019756	Securing Device
2	1	1009526	Screw
3	1	1009564	Nut

**B.L. SHEAR:** 42 M. TON

**REFERENCE #:** 1019754  
**MATERIAL:** CAST STEEL  
**FINISH:** HOT-DIP GALVANIZED (HDG)  
**WEIGHT:** 3.06 Kg / 6.75 LBS

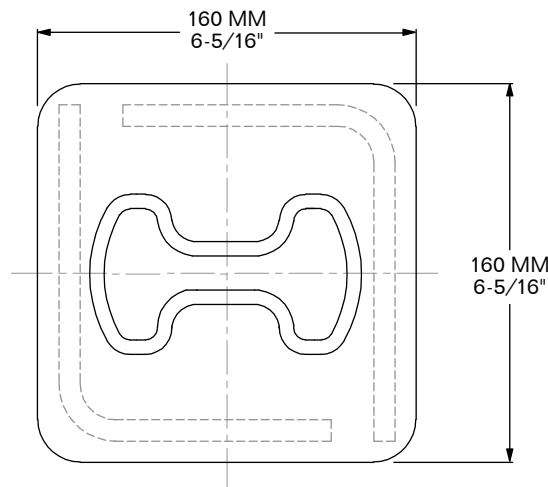
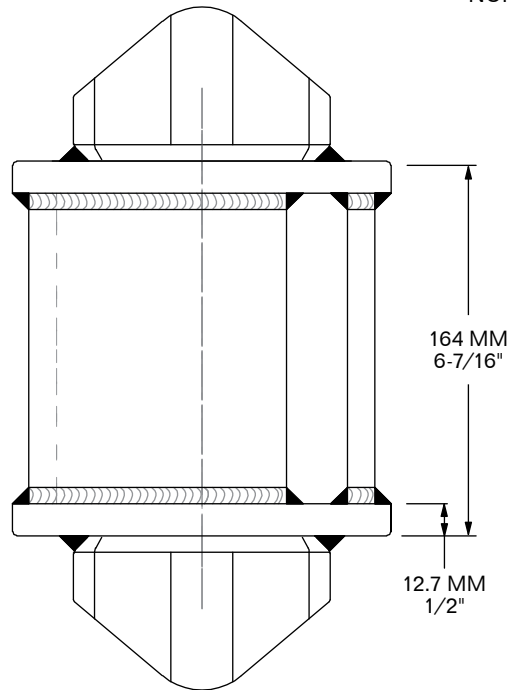
**5006**



# CONTAINER HEIGHT EXTENSION STACKER

**MODEL 5006-BC-H3**

WORKS w/ ISO-COMPATIBLE EQUIPMENT.  
NON-LOCKING POSITIONING CONES  
ON TOP & BOTTOM.



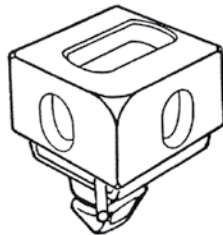
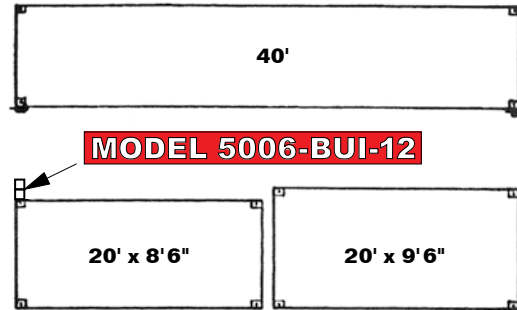
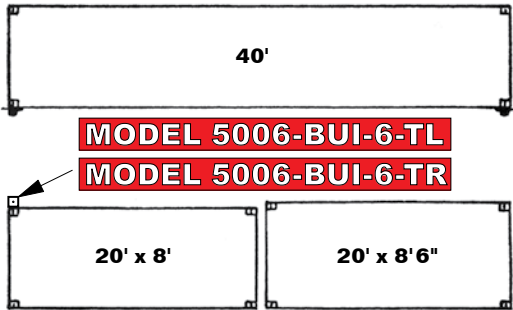
**MIN. B.L. SHEAR:** 42 M. TON  
**MIN. B.S. COMPRESSION:** 60 M. TON

**MATERIAL:** STRUCTURAL &  
FORGED STEEL **FINISH:** PRIMER  
**WEIGHT:** 11.3 Kg / 24.9 LBS

**5006**



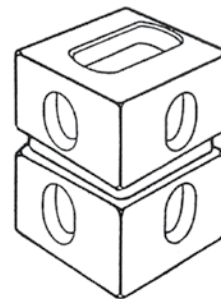
- SPECIAL ORDER ONLY** **MODEL 5006-BUI-6-TL**
- SPECIAL ORDER ONLY** **MODEL 5006-BUI-6-TR**
- SPECIAL ORDER ONLY** **MODEL 5006-BUI-9.5**
- MODEL 5006-BUI-12**



**5006-BUI-6-TL**  
**5006-BUI-6-TR**

**WEIGHT:** 17.2 Kg / 38 LBS

Model 5006-BUI-6-TL/-TR for 6" height difference.  
Supplied with integral Twistlock.

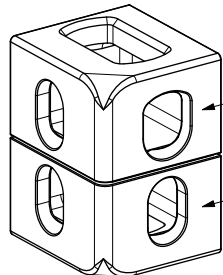


**5006-BUI-12**

**WEIGHT:** 24 Kg / 53 LBS

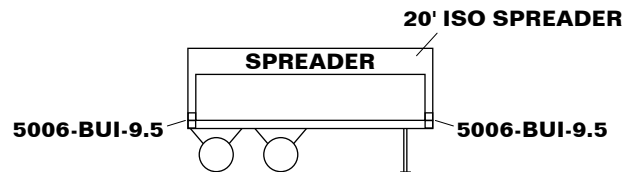
Model 5006-BUI-12 for 12" height difference.  
Must be attached with a Ship Twistlock to 8'6" Container to achieve 12" height above 8'6" Container.

**MODEL 5006-BUI-9.5**



**WEIGHT:** 21.3 Kg / 47 LBS

Model 5006-BUI-9.5 for 9-1/2" height difference.  
ISO Apertures are placed in line.  
Fits on Chassis Twistlocks and allows loading and locking of ISO Lift Spreader.



**MIN. B.S. COMPRESSION:** 100 M. TON

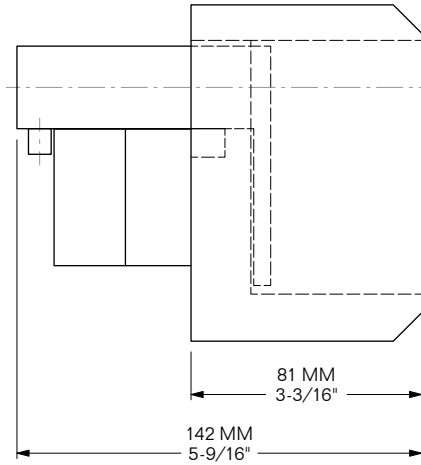
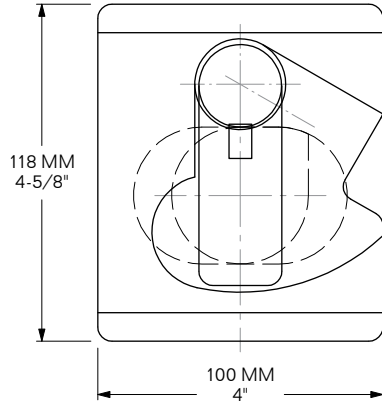
**MATERIAL:** STEEL **FINISH:** HOT-DIP GALVANIZED (HDG)

**5006**



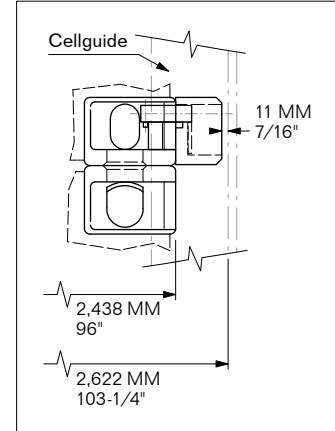
**MODEL 5006-TPS-2/81**

Fitted in 4 ea. bottom corners on standard ISO containers that need to be loaded in cellguides for 102" wide containers



**Application:**

2,438 mm / 96" wide ISO Containers in  
2,622 mm / 103-1/4" wide Cellguides



**MIN. B. L. SHEAR: 30.6 M. TON**

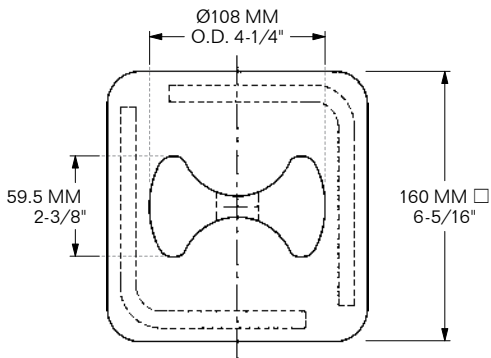
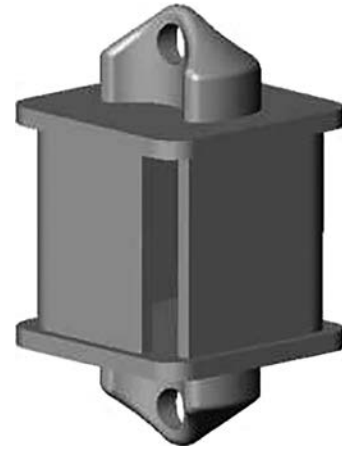
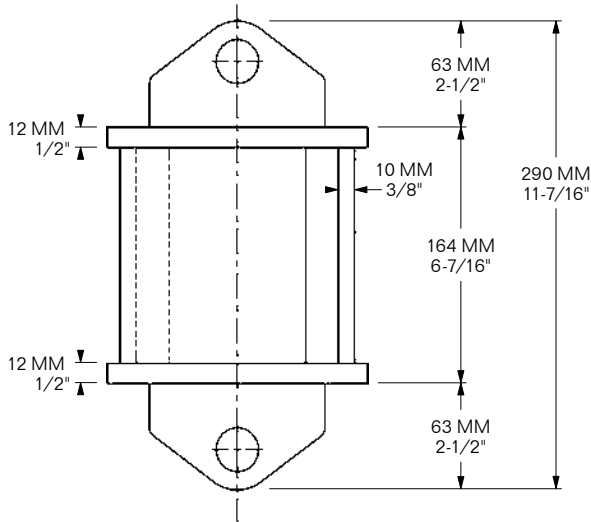
**MACGREGOR PART # 1104764 or 400007892**  
**MATERIAL: CAST STEEL FINISH: HOT-DIP GALVANIZED (HDG)**  
**WEIGHT: 6.3 Kg / 13.9 LBS**

**5006**



**SPECIAL ORDER ONLY** **MODEL 5006-K1/164**

**NON-LOCKING POSITIONING CONES** on Top & Bottom,  
works w/ ISO-compatible Equipment



**MATERIAL:** CAST STEEL / WELDED  
**FINISH:** HOT-DIP GALVANIZED (HDG)  
**WEIGHT:** 14.8 Kg / 32.6 LBS

**5006**



TABLE OF CONTENTS  
LASHING GEAR: RODS, TURNBUCKLES  
& BRIDGE FITTINGS **5007-5010**

**PAGE NUMBERS**

<b>5007-1 to -6</b>	EQUALASH SYSTEM
<b>5007-7 to -11</b>	TURNBUCKLES
<b>5007-12 to -20</b>	FLEXILASH TURNBUCKLES
<b>5007-21 to -22</b>	TOGGLE PINS
<b>5007-23</b>	TURNBUCKLE SPANNER
<b>5007-24</b>	TURNBUCKLE WRENCHES & VISE HANDLE
<b>5007-25</b>	TURNBUCKLE PARTS
<b>5008-1 to -4</b>	LASHING BARS (Eye type)
<b>5008-5</b>	HINGED LASHING ROD HEADS
<b>5008-6</b>	HINGED LASHING ROD HEAD FASTENING HARDWARE
<b>5008-7</b>	PENGUIN HOOK & SECURING EYE PAD
<b>5008-8</b>	EXTENSION HOOKS
<b>5009-1,-2,-4</b>	KNOB-TYPE LASHING BARS (Flexilash / AllSet models)
<b>5009-3</b>	KNOB-TYPE LASHING BARS (Multilash / MacGregor models)
<b>5009-5</b>	KNOB-TYPE LASHING EXTENSION BARS (Flexilash / AllSet models)
<b>5009-6 to -8</b>	KNOB-TYPE LASHING BARS (Maersk / Arne Holst models)
<b>5009-9</b>	KNOB-TYPE LASHING EXTENSION BARS (Multilash / MacGregor models)
<b>5010-1 to -3</b>	BRIDGE FITTINGS

**5007**



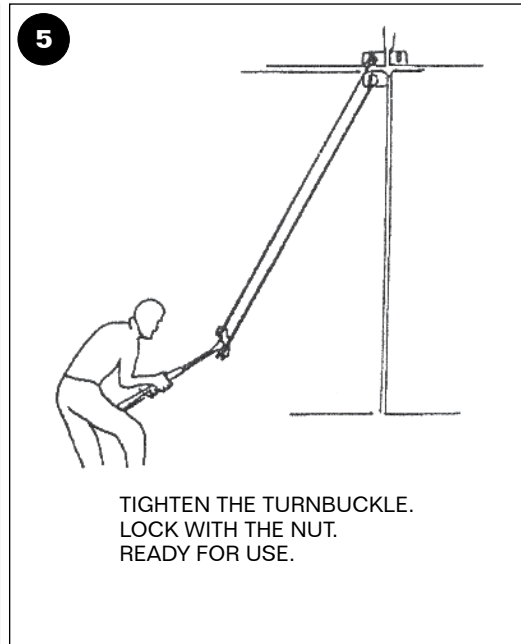
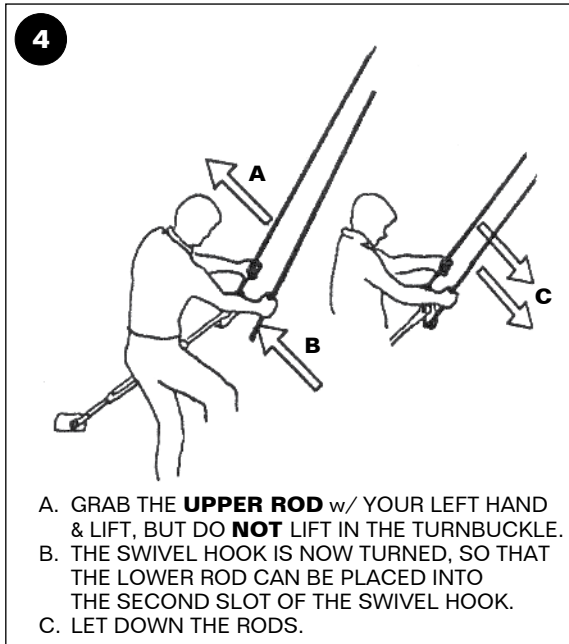
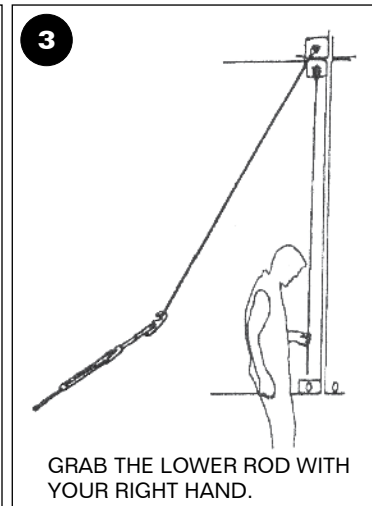
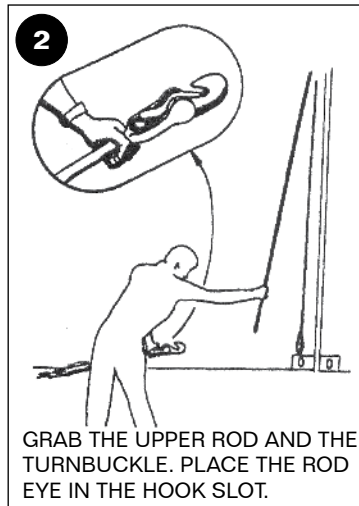
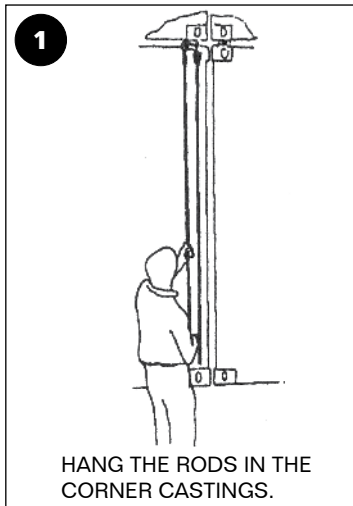


EQUALASH = TWO RODS ON ONE TURNBUCKLE.

LASHING SHOWN IN STEPS 1 – 5.

UNLASHING IS REVERSE, STEPS 5 – 1.

INTENDED FOR TWO PARALLEL RODS, BUT  
SINGLE ROD IS ALSO OKAY – USE STEPS 3 – 5.



5007

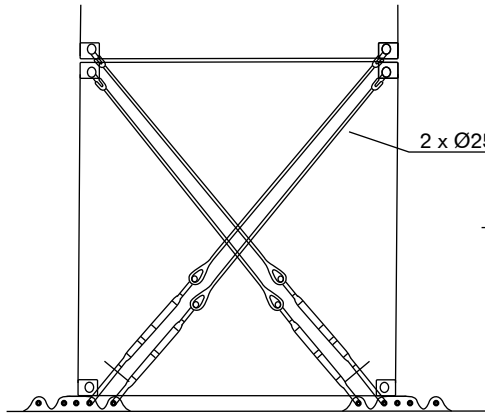


# EQUALASH COMPARISON

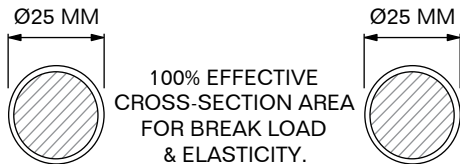
## PARALLEL LASHING VS. EQUALASH SYSTEM



**PARALLEL LASHING SYSTEM**

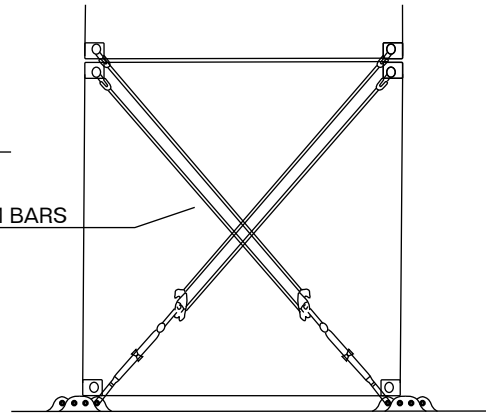


**MIN. B.L. FOR EACH LASHING = 50 TON**  
**MIN. B.L. FOR SYSTEM = 75 TON**

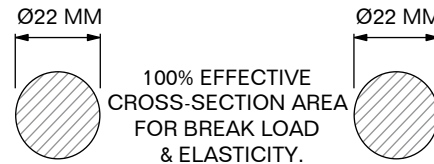


TOTAL EFFECTIVE CROSS-SECTION AREA = 736 MM<sup>2</sup>

**EQUALASH SYSTEM**



**MIN. B.L. FOR EACH LASHING = 42 TON**  
**MIN. B.L. FOR SYSTEM = 84 TON**



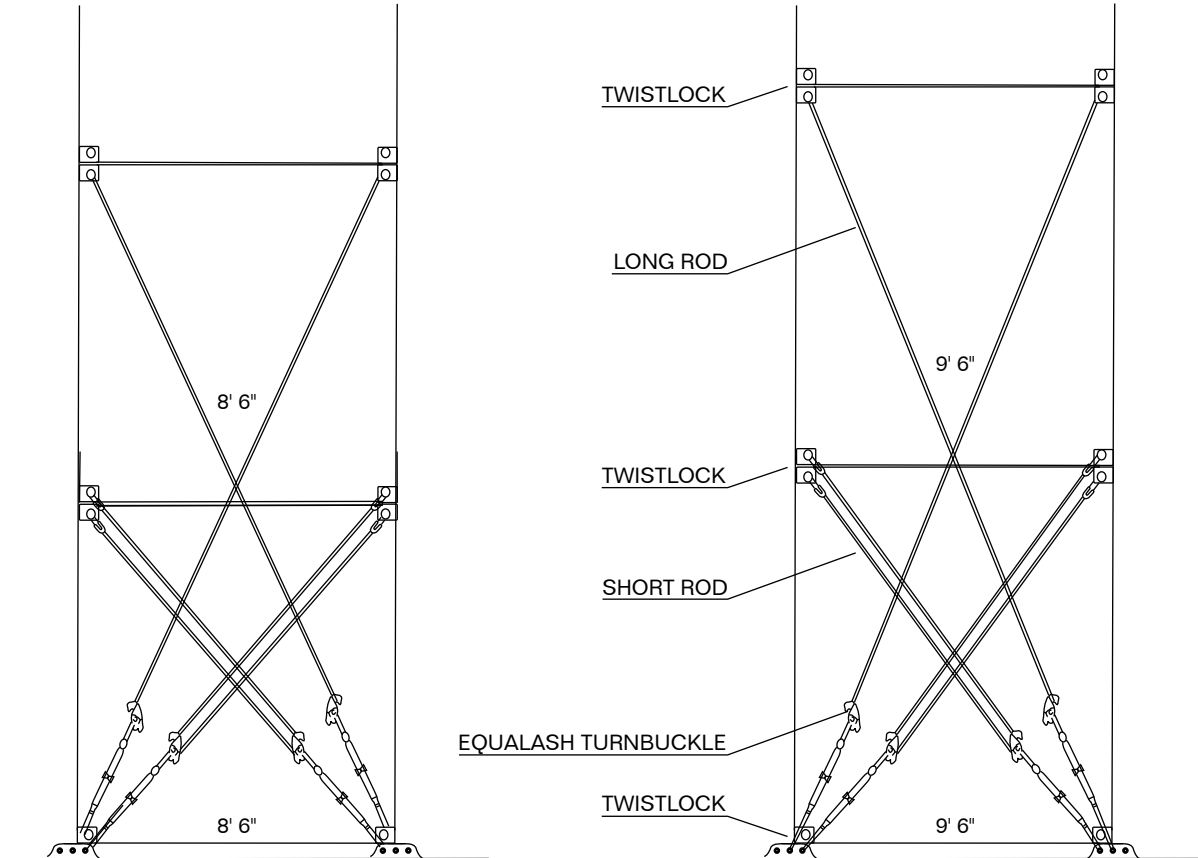
TOTAL EFFECTIVE CROSS-SECTION AREA = 760 MM<sup>2</sup>

EQUALASH GIVES THE ADVANTAGE OF PARALLEL LASHING (NO LONG RODS) WITH ONLY HALF THE QUANTITY OF TURNBUCKLES AND THINNER RODS – COMPARED WITH PARALASH (Ø22 MM INSTEAD OF Ø25 MM) – AND STILL MAINTAINING THE SAME STACK WEIGHTS.

**CONTACT US FOR MORE INFORMATION.**

5007





**NOTE:** WITH PARALASH OR EQUALASH, LONG RODS ARE USUALLY ONLY REQUIRED FOR THE WIND STACKS. THE EQUALASH TURNBUCKLE CAN THEN BE USED FOR BOTH SINGLE RODS AND DOUBLE RODS.

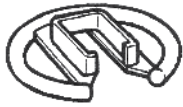
**5007**







**MODEL 5007-M5-H**  
**HANDWHEEL**



2.0 Kg  
4.4 LBS

**MODEL 5007-M5-B**  
**OPERATING BAR**

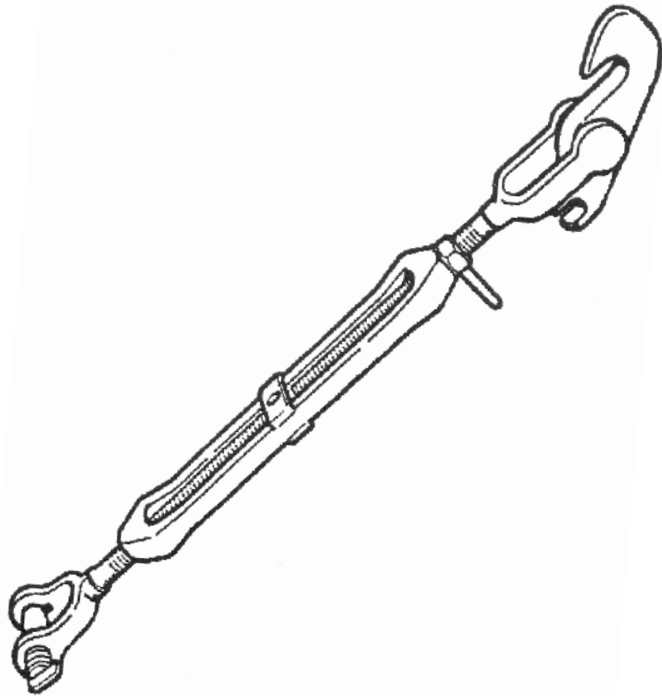


0.5 Kg  
1.1 LBS

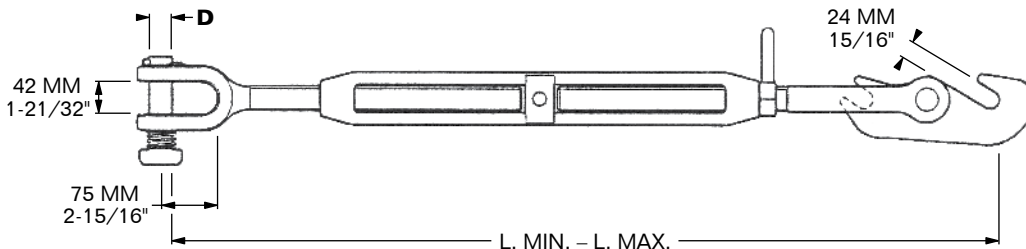
**MODEL 5007-M5-W**  
**OPERATING WRENCH**



1.0 Kg  
2.2 LBS



MODEL	MIN. B.L. (M. TON)	WEIGHT	D	LENGTH, MIN. - MAX.
<b>5007-ELT-55-EXT/J</b>	55	17.0 Kg 37.5 LBS	30 MM 1-3/16"	945 MM - 1,445 MM 37-3/16" - 56-7/8"
<b>5007-ELT-65-EXT/J</b>	65	18.0 Kg 39.7 LBS	32 MM 1-1/4"	
<b>5007-ELT-65L-SUP/J</b>	65	19.0 Kg 41.9 LBS	32 MM 1-1/4"	1,030 MM - 1,670 MM 40-1/2" - 65-3/4"



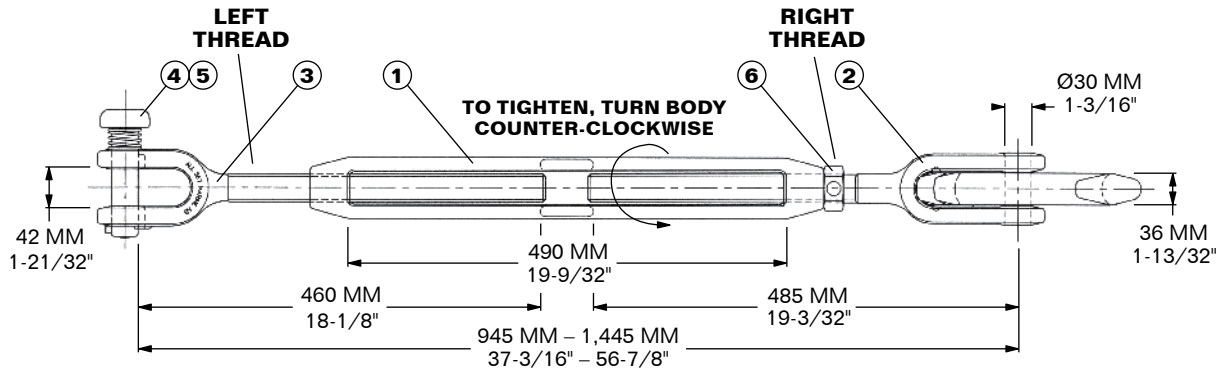
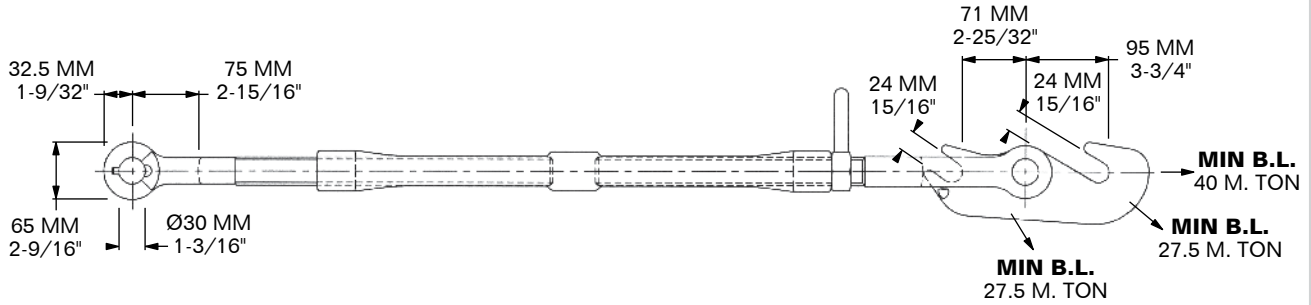
**MATERIAL:** DROP-FORGED, HIGH-TENSILE STEEL  
**FINISH:** HOT-DIP GALVANIZED (HDG)  
**CLASS APPROVED**

5007





**MODEL 5007-ELT-55-EXT/J**



**5007**

ITEM	QTY	MODEL	APM #	DESCRIPTION	WEIGHT
1	1	<b>5007-M5-50-EXT-BODY</b>		BODY	4.35 Kg / 9.6 LBS
2	1	<b>5007-ELT-55-2</b>		JAW w/ SHANK & SWIVEL HOOK RIGHT-HAND THREAD, ACME 34-6 MM	7.3 Kg / 16.1 LBS
3	1	<b>5007-M5-JAW-J-SIDE</b>		JAW w/ SHANK LEFT-HAND THREAD, ACME 34-6 MM	3.83 Kg / 8.45 LBS
4 & 5	1	<b>5007-TB-50-TGN</b>		TOGGLE PIN w/ SPRING & STOP PIN	0.71 Kg / 1.57 LBS
6	1	<b>5007-ELT-65L-LN</b>		LOCK NUT RIGHT-HAND THREAD, ACME 34-6 MM	0.18 Kg / 0.4 LBS

**MIN. B.L.:** 55 M. TON

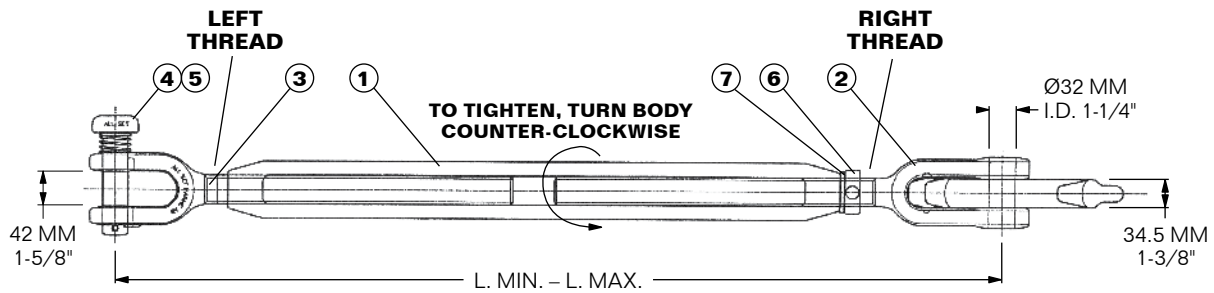
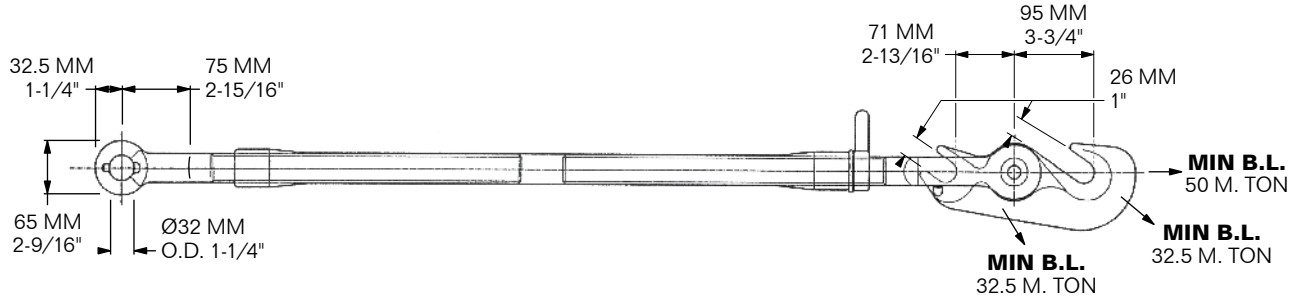
**MATERIAL:** STEEL  
**FINISH:** HOT-DIP GALVANIZED (HDG)  
**WEIGHT:** 17.0 Kg / 37.5 LBS





**MODEL 5007-ELT-65-EXT/J**

**MODEL 5007-ELT-65L-SUP/J**



5007

ITEM	QTY	MODEL	DESCRIPTION	WEIGHT
1	1	<b>5007-M5-50-SUP-BODY</b>	<b>SPECIAL ORDER ONLY</b> BODY	6.3 Kg / 13.9 LBS
2	1	<b>5007-ELT-65L/2</b>	JAW w/ SHANK & SWIVEL HOOK RIGHT-HAND THREAD, ACME 34-6 MM	7.64 Kg / 16.85 LBS
3	1	<b>5007-EQ-60-SUP/TM34L</b>	JAW w/ SHANK LEFT-HAND THREAD, ACME 34-6 MM	3.15 Kg / 6.95 LBS
4 & 5	1	<b>5007-TB-50-TGN</b>	TOGGLE PIN w/ SPRING & STOP PIN	0.8 Kg / 1.77 LBS
6	1	<b>5007-ELT-65L-LN</b>	LOCK NUT RIGHT-HAND THREAD, ACME 34-6 MM	0.71 Kg / 1.57 LBS
7	1	<b>5007-M5/FLX-SW</b>	SPRING WASHER	0.01 Kg / 0.02 LBS

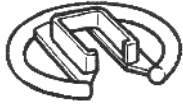
MODEL	MIN. B.L. (M. TON)	WEIGHT	LENGTH, MIN. - MAX.
<b>5007-ELT-65-EXT/J</b>	65	18 Kg 39.7 LBS	945 MM - 1,445 MM 37-3/16" - 56-7/8"
<b>5007-ELT-65L-SUP/J</b>	65	19 Kg 41.9 LBS	1,030 MM - 1,670 MM 40-1/2" - 65-3/4"

**MATERIAL: STEEL**  
**FINISH: HOT-DIP GALVANIZED (HDG)**



**MODEL 5007-M5-H**

**HANDWHEEL**



2 Kg  
4.4 LBS

**MODEL 5007-M5-B**

**OPERATING BAR**



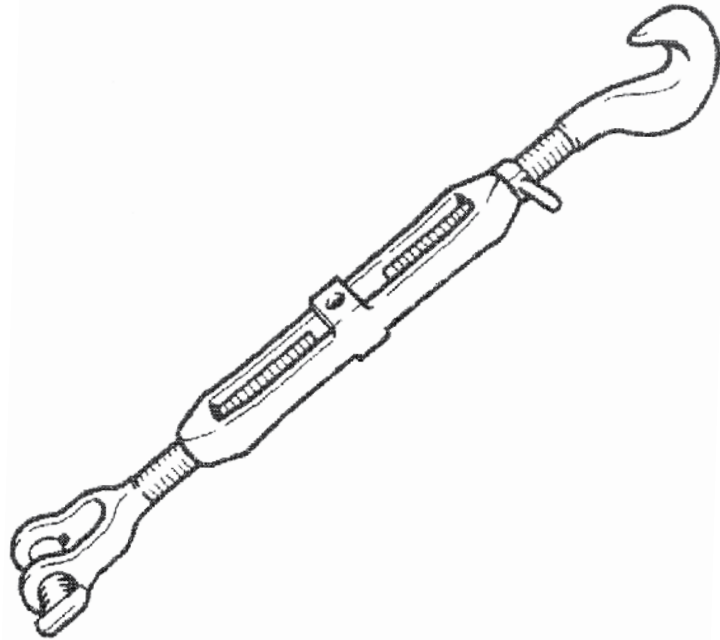
0.5 Kg  
1.1 LBS

**MODEL 5007-M5-W**

**OPERATING WRENCH**



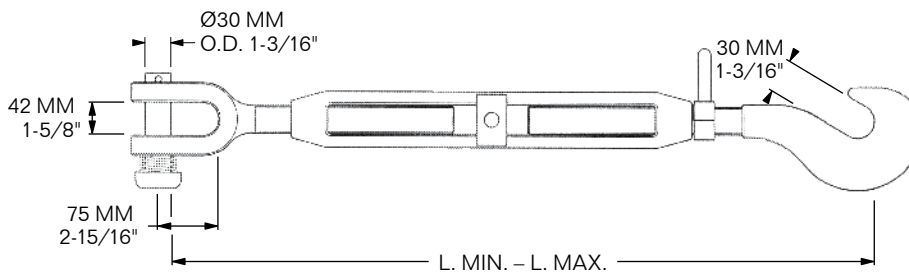
1 Kg  
2.2 LBS



**5007**

MODEL	MIN. B.L. (M. TON)	WEIGHT	LENGTH, MIN. - MAX.
<b>5007-M5-50-EXT/J</b>	50	14 Kg 30.9 LBS	940 MM - 1,410 MM 37" - 55-1/2"
<b>SPECIAL ORDER ONLY 5007-M5-50-SUP/J</b>	50	16.1 Kg 35.5 LBS	1,050 MM - 1,660 MM 41-3/8" - 65-5/16"

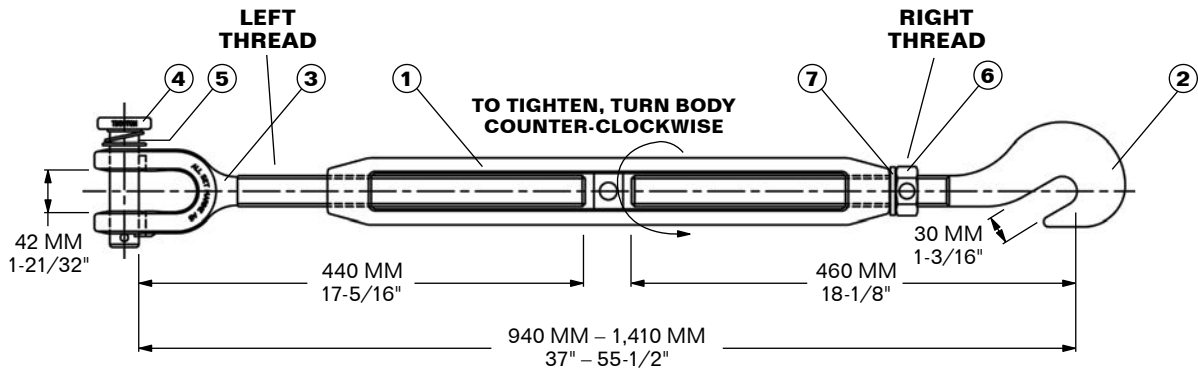
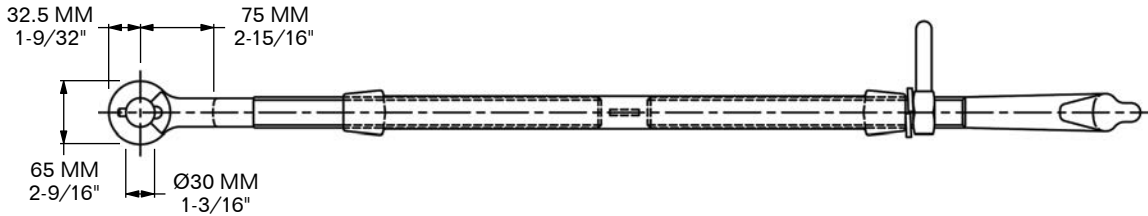
**SPECIAL ORDER ONLY**



**COUNTER PARTS:** LASHING BARS (TYPE ELB & A7B-2)  
**MATERIAL:** DROP-FORGED, HIGH-TENSILE STEEL  
**FINISH:** HOT-DIP GALVANIZED (HDG)  
**CLASS APPROVED**



**MODEL 5007-M5-50-EXT/J**  
**STANDARD**



**5007**

ITEM	QTY	MODEL	APM #	DESCRIPTION	WEIGHT
1	1	<b>5007-M5-50-EXT-BODY</b>		BODY	4.35 Kg / 9.6 LBS
2	1	<b>5007-M5-HOOK-H-SIDE</b>		HOOK w/ SHANK RIGHT-HAND THREAD, ACME 32-6 MM	3.83 Kg / 8.45 LBS
3	1	<b>5007-M5-JAW-J-SIDE</b>		JAW w/ SHANK LEFT-HAND THREAD, ACME 32-6 MM	3.83 Kg / 8.45 LBS
4 & 5	1	<b>5007-TB-50-TGN</b>	351416	TOGGLE PIN w/ SPRING & STOP PIN	0.71 Kg / 1.57 LBS
6	1	<b>5007-M5/M7-LN</b>		LOCK NUT RIGHT-HAND THREAD, ACME 32-6 MM	0.18 Kg / 0.4 LBS
7	1	<b>5007-M5/FLX-SW</b>		SPRING WASHER	0.06 Kg / 0.13 LBS

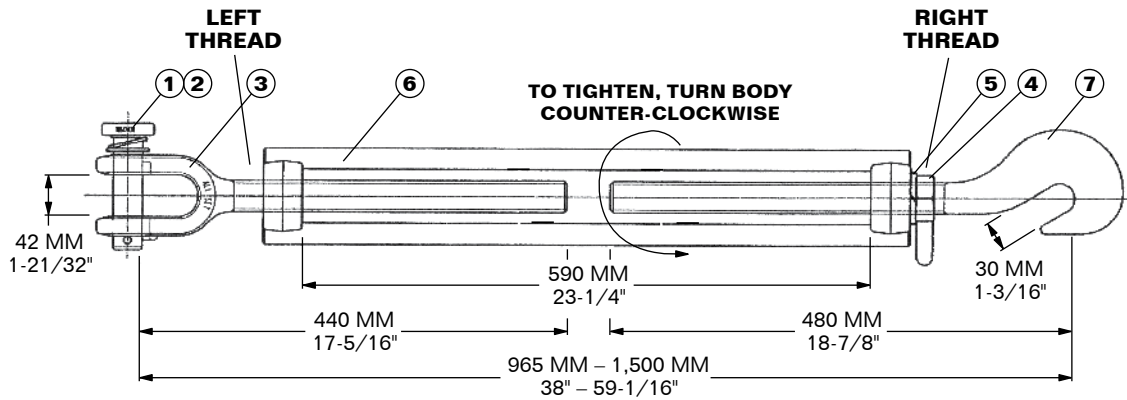
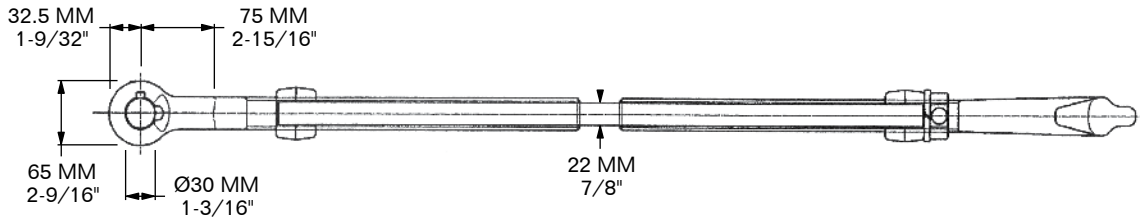
**MIN. B.L.:** 50 M. TON

**MATERIAL:** STEEL  
**FINISH:** HOT-DIP GALVANIZED (HDG)  
**WEIGHT:** 12.29 Kg / 27.1 LBS





**MODEL 5007-M7-50-LNG/J**  
**EXTENDED LENGTH**



**5007**

ITEM	QTY	MODEL	APM #	DESCRIPTION	WEIGHT
1 & 2	1	<b>5007-TB-50-TGN</b>	351416	TOGGLE PIN w/ SPRING & STOP PIN	0.71 Kg / 1.57 LBS
3	1	<b>5007-M5-JAW-J-SIDE</b>		JAW w/ SHANK LEFT-HAND THREAD, ACME 32-6 MM	3.8 Kg / 8.45 LBS
4	1	<b>5007-M5/M7-LN</b>		LOCK NUT RIGHT-HAND THREAD, ACME 32-6 MM	0.18 Kg / 0.4 LBS
5	1	<b>5007-M5/FLX-SW</b>		SPRING WASHER	0.01 Kg / 0.02 LBS
6	1	<b>5007-M7-50-BODY</b>		BODY	5.3 Kg / 11.8 LBS
7	1	<b>5007-M7-HOOK-H-SIDE</b>		HOOK w/ SHANK RIGHT-HAND THREAD, ACME 32-6 MM	3.9 Kg / 8.7 LBS

**MIN. B.L.:** 50 M. TON

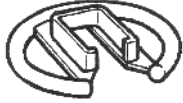
**MATERIAL:** STEEL  
**FINISH:** HOT-DIP GALVANIZED (HDG)  
**WEIGHT:** 12.25 Kg / 27 LBS





**MODEL 5007-M5-H**

**HANDWHEEL**



2 Kg  
4.4 LBS

**MODEL 5007-M5-B**

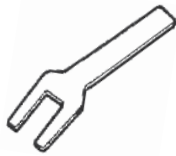
**OPERATING BAR**



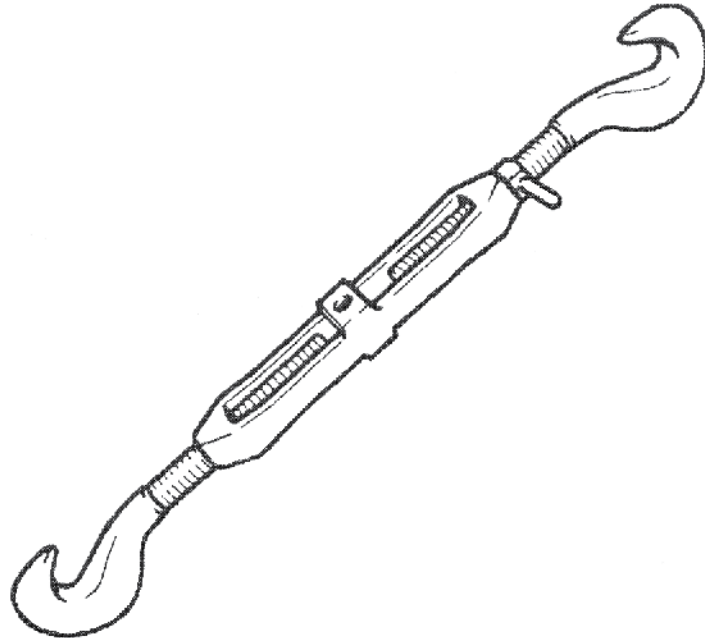
0.5 Kg  
1.1 LBS

**MODEL 5007-M5-W**

**OPERATING WRENCH**



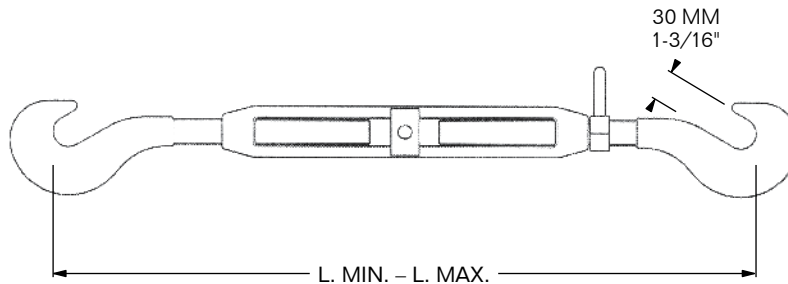
1 Kg  
2.2 LBS



**5007**

MODEL	MIN. B.L. (M. TON)	WEIGHT	LENGTH, MIN. - MAX.
<b>5007-M5-50-EXT/H</b>	50	14 Kg 30.9 LBS	970 MM – 1,440 MM 38-3/16" – 56-11/16"
<b>5007-M5-50-SUP/H</b>	50	16.3 Kg 35.9 LBS	1,080 MM – 1,690 MM 42-1/2" – 66-1/2"

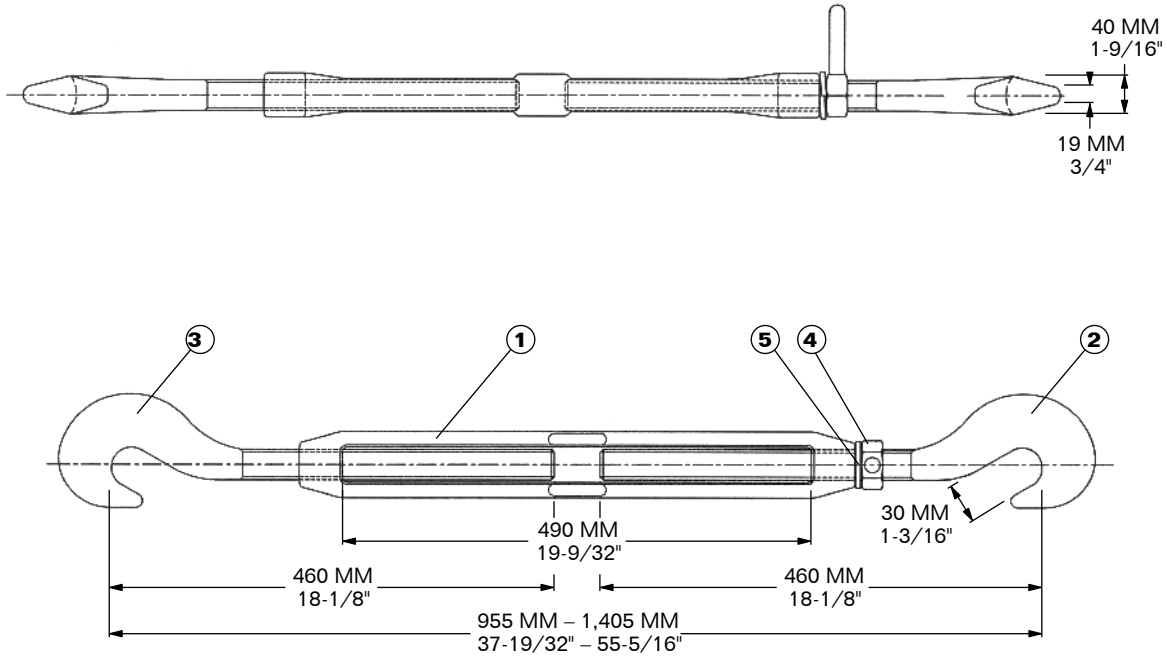
**SPECIAL ORDER ONLY**



**COUNTER PARTS:** LASHING BARS (TYPE ELB & A7B-2)  
**MATERIAL:** DROP-FORGED, HIGH-TENSILE STEEL  
**FINISH:** HOT-DIP GALVANIZED (HDG)  
**CLASS APPROVED**



**MODEL 5007-M5-50-EXT/H**



**5007**

ITEM	QTY	MODEL	APM #	DESCRIPTION	WEIGHT
1	1	<b>5007-M5-50-EXT-BODY</b>		BODY	4.35 Kg / 9.6 LBS
2	1	<b>5007-M5-HOOK-H-SIDE</b>		HOOK w/ SHANK RIGHT-HAND THREAD, ACME 32-6 MM	3.83 Kg / 8.45 LBS
3	1	<b>5007-M5-HOOK-J-SIDE</b>		HOOK w/ SHANK LEFT-HAND THREAD, ACME 32-6 MM	3.83 Kg / 8.45 LBS
4	1	<b>5007-M5/M7-LN</b>		LOCK NUT RIGHT-HAND THREAD, ACME 32-6 MM	0.18 Kg / 0.4 LBS
5	1	<b>5007-M5/FLX-SW</b>		SPRING WASHER	0.01 Kg / 0.02 LBS

**MIN. B.L.:** 50 M. TON

**MATERIAL:** STEEL  
**FINISH:** HOT-DIP GALVANIZED (HDG)  
**WEIGHT:** 13.5 Kg / 29.8 LBS

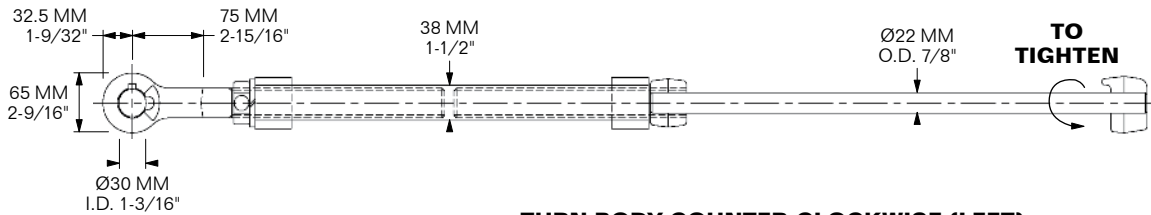




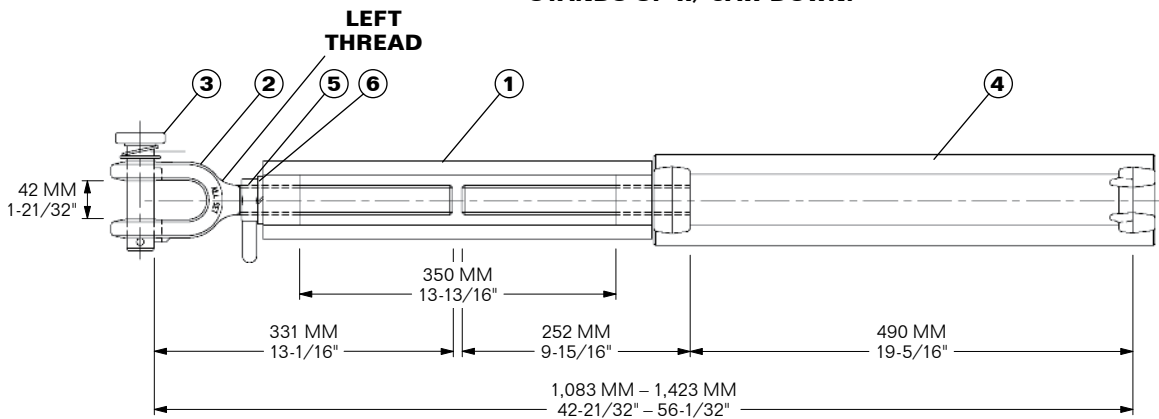


**MODEL 5007-M6-50-FLX**

**APM # 357399**  
Replaces M5-42-FLX & M5-50-FLX



**TURN BODY COUNTER-CLOCKWISE (LEFT) TO TIGHTEN/SHORTEN WHEN TURNBUCKLE STANDS UP w/ JAW DOWN.**



**5007**

ITEM	QTY	MODEL	APM #	DESCRIPTION	WEIGHT
1	1	<b>5007-M6-50-BODY</b>		BODY	3.22 Kg / 7.1 LBS
2	1	<b>5007-M6-JAW/2-3</b>		JAW w/ SHANK & TOGGLE PIN LEFT-HAND THREAD, ACME 32-6 MM	3.06 Kg / 6.75 LBS
3	1	<b>5007-TB-50-TGN</b>	357416	TOGGLE PIN w/ SPRING & STOP PIN	0.71 Kg / 1.57 LBS
4	1	<b>5007-M6-50-12711</b>		SOCKET w/ THREADED SHANK	6.57 Kg / 14.5 LBS
5	1	<b>5007-M6-50-LN46</b>		LOCK NUT LEFT-HAND THREAD, ACME 32-6 MM	0.18 Kg / 0.4 LBS
6	1	<b>5007-M5/FLX-SW</b>		SPRING WASHER	0.06 Kg / 0.13 LBS

**MIN. B.L.:** 50 M. TON

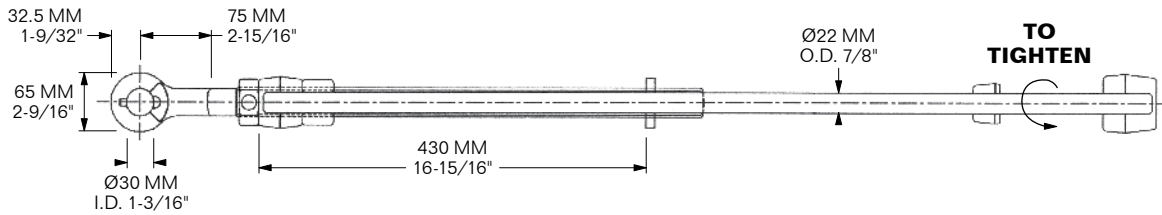
**MATERIAL:** STEEL  
**FINISH:** HOT-DIP GALVANIZED (HDG)  
**WEIGHT:** 13.81 Kg / 30.45 LBS



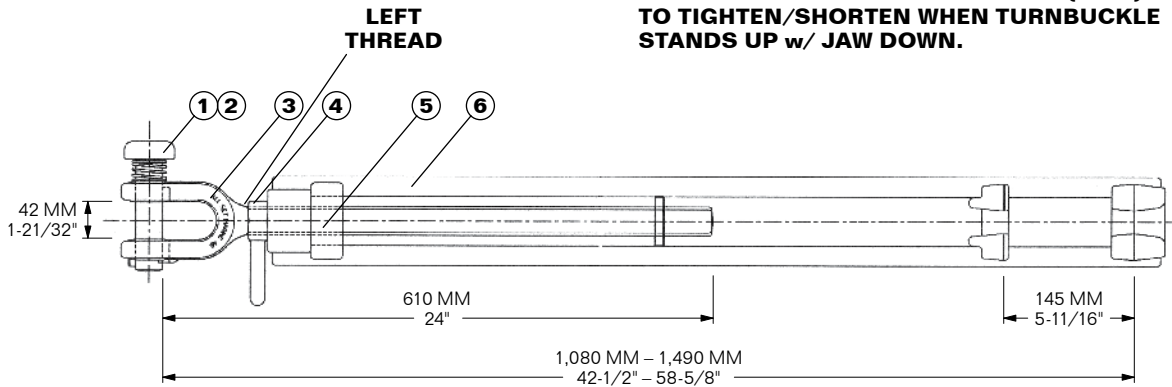


**MODEL 5007-FLX5-TB-50**

**APM # 414515**



**TURN BODY COUNTER-CLOCKWISE (LEFT) TO TIGHTEN/SHORTEN WHEN TURNBUCKLE STANDS UP w/ JAW DOWN.**



**5007**

ITEM	QTY	MODEL	APM #	DESCRIPTION	WEIGHT
1 & 2	1	<b>5007-TB-50-TGN</b>	357416	TOGGLE PIN w/ SPRING & STOP PIN	0.71 Kg / 1.57 LBS
3	1	<b>5007-FLX5-JAW/1-3</b>		JAW w/ SHANK LEFT-HAND THREAD, ACME 32-6 MM	6.21 Kg / 13.7 LBS
4	1	<b>5007-M6-50-LN46</b>		LOCK NUT LEFT-HAND THREAD, ACME 32-6 MM	0.18 Kg / 0.4 LBS
5	1	<b>5007-FLX5-6</b>		BEARING RIGHT-HAND THREAD, ACME 32-6 MM	0.61 Kg / 1.35 LBS
6	1	<b>5007-FLX5-BODY</b>		BODY	6.89 Kg / 15.2 LBS

**MIN. B.L.:** 50 M. TON

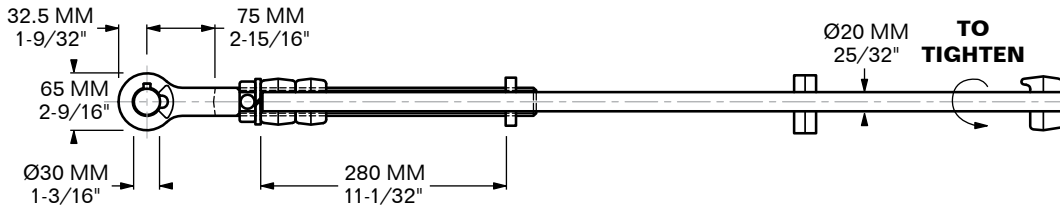
**MATERIAL:** STEEL  
**FINISH:** HOT-DIP GALVANIZED (HDG)  
**WEIGHT:** 14.6 Kg / 32.2 LBS



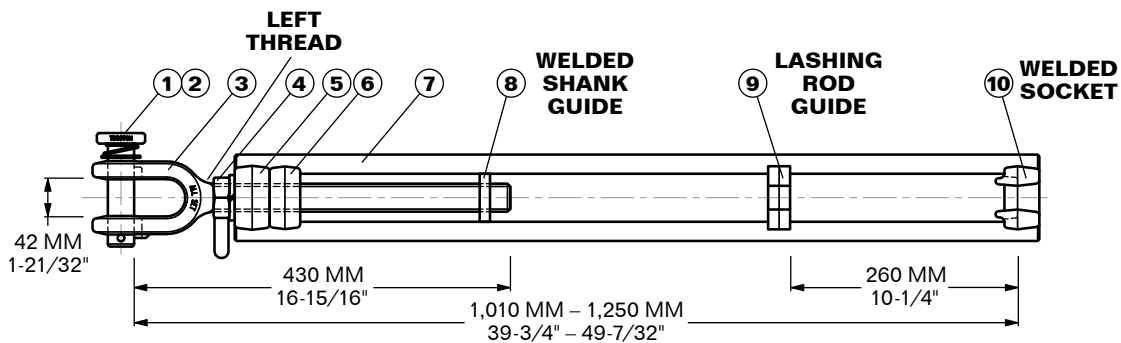


**MODEL 5007-FLX5-TB-50-240**

**APM #344935**



**TURN BODY COUNTER-CLOCKWISE (LEFT) TO TIGHTEN / SHORTEN WHEN TURNBUCKLE STANDS UP w/ JAW DOWN.**



**5007**

ITEM	QTY	MODEL	APM #	DESCRIPTION	WEIGHT
1 & 2	1	<b>5007-TB-50-TGN</b>	351416	TOGGLE PIN w/ SPRING & STOP PIN	0.71 Kg / 1.57 LBS
3	1	<b>5007-FLX5-240-3</b>		JAW w/ SHANK LEFT-HAND THREAD, ACME 32-6 MM	5.53 Kg / 12.2 LBS
4	1	<b>5007-M6-50-LN46</b>		LOCK NUT LEFT-HAND THREAD, ACME 32-6 MM	0.18 Kg / 0.4 LBS
6	1	<b>5007-FLX5-240-6</b>		BEARING LEFT-HAND THREAD, ACME 32-6 MM	0.61 Kg / 1.35 LBS
5, 7-10	1	<b>5007-FLX5/5,7-10</b>		BODY	6.89 Kg / 15.2 LBS

**MIN. B.L.: 50 M. TON**

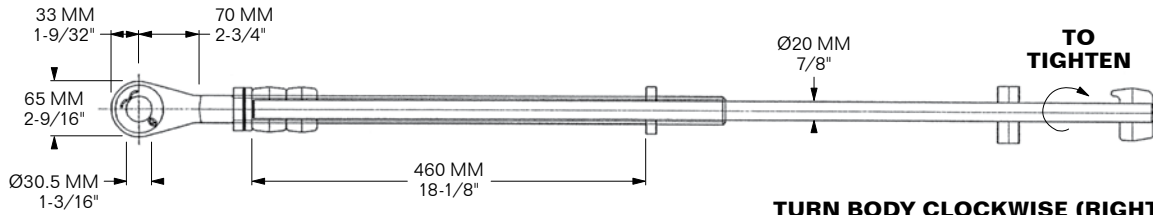
**SUB FOR:** TAIYO SEIKI BK-500  
**REFERENCE:** FLX5-TB-50/1130, 004866  
**MATERIAL:** STEEL  
**FINISH:** HOT-DIP GALVANIZED (HDG)  
**WEIGHT:** 13.2 Kg / 29.1 LBS



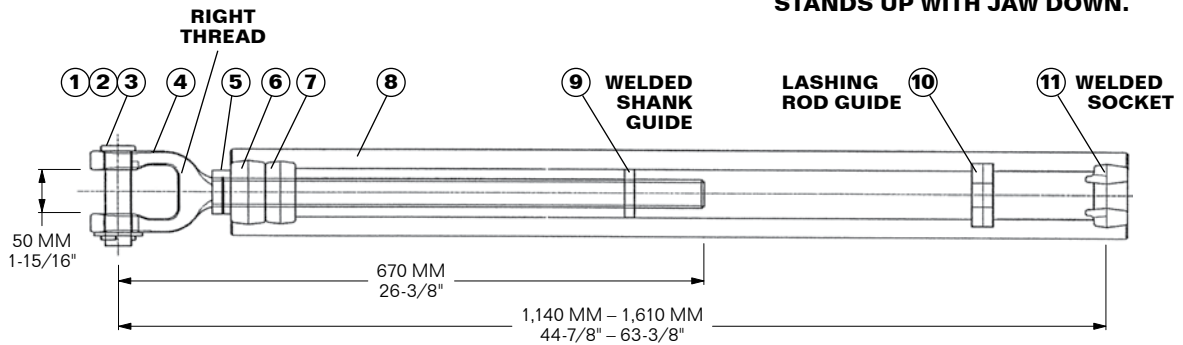


**MODEL 5007-FLX5-TB-50/APM**

**APM #340265**



**TURN BODY CLOCKWISE (RIGHT)  
TO TIGHTEN / SHORTEN WHEN TURNBUCKLE  
STANDS UP WITH JAW DOWN.**



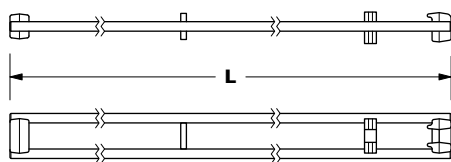
ITEM	QTY	MODEL	APM #	DESCRIPTION	WEIGHT
1	1	<b>5201-4561-SS</b>	317892	COTTER PIN, 6 x 50 MM	0.01 Kg / 0.02 LBS
2	1	<b>5007-APM-510-00/10</b>	317891 334317	WASHER	0.03 Kg / 0.05 LBS
3	1	<b>5007-APM-510-00/7</b>	317890 334316	CLEVIS PIN	0.66 Kg / 1.46 LBS
4	1	<b>5007-FLX5-APM-JAW</b>		JAW w/ SHANK RIGHT-HAND THREAD, ACME 1-1/4" - 5 TPI	5.4 Kg / 11.9 LBS
5	1	<b>5007-APM-510-00/4</b>	326550	LOCK NUT RIGHT-HAND THREAD, ACME 1-1/4" - 5 TPI	0.24 Kg / 0.54 LBS
6, 8-11	1	<b>5007-FLX5-APM-BODY</b>	see chart below	BODY	6.6 Kg / 14.6 LBS
7	1	<b>5007-FLX5-APM-7</b>		THREADED BEARING NUT RIGHT-HAND THREAD, ACME 1-1/4" - 5 TPI	0.52 Kg / 1.15 LBS

**MIN. B.L. TENSION: 50 M. TON**

**MATERIAL: STEEL FINISH: HOT-DIP GALVANIZED (HDG) WEIGHT: 15.5 Kg / 34.2 LBS**

**FLX5-APM Turnbuckle Body**

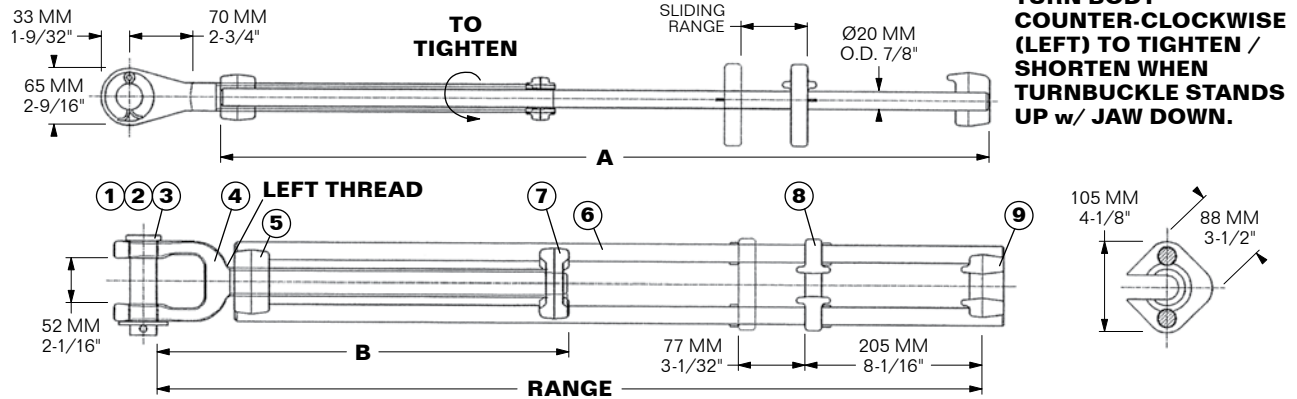
Round bar w/ forged end fittings welded on



MODEL	APM #	L (Length)
<b>5007-FLX5-APM-BODY-1229020</b>	428044	802 MM / 31.6"
<b>5007-FLX5-APM-BODY-1229016</b>	428045	887 MM / 34.9"
<b>5007-FLX5-APM-BODY-1229034</b>	463100	907 MM / 35.7"
<b>5007-FLX5-APM-BODY-1229018</b>	428047	977 MM / 38.5"
<b>5007-FLX5-APM-BODY-1238968</b>	463105	1,087 MM / 42.8"
<b>5007-FLX5-APM-BODY-1229021</b>	463106	1,132 MM / 44.6"

**5007**





MODEL # APM # / SAP material #	A	B	WEIGHT	RANGE	BODY w/ PARTS 5 6 8 9	
					JAW 4 (SOLD w/o CLEVIS PIN)	APM #
<b>5007-FLX5-APM700-224-S</b> 414907 / 1120881	610 MM 24"	384 MM 15-1/8"	9.25 Kg 20.4 LBS	700 MM – 924 MM 27-9/16" – 36-3/8"	5007-FLX5-APM-700/5,6,8,9	435601
<b>5007-FLX5-APM856-200-S</b> 357390 / 1153799	766 MM 30-5/32"	360 MM 14-3/16"	9.93 Kg 21.9 LBS	856 MM – 1,056 MM 33-11/16" – 41-9/16"	5007-FLX5-APM-856/5,6,8,9	428044
<b>5007-FLX5-APM856-224-S</b> 414899 / 1120886	766 MM 30-5/32"	384 MM 15-1/8"	10.1 Kg 22.3 LBS	856 MM – 1,080 MM 33-11/16" – 42-1/2"	5007-FLX5-APM-856-200/4	428048*
<b>5007-FLX5-APM856-224-S</b> 414899 / 1120886	766 MM 30-5/32"	384 MM 15-1/8"	10.1 Kg 22.3 LBS	856 MM – 1,080 MM 33-11/16" – 42-1/2"	5007-FLX5-APM-856-224/4	435610
<b>5007-FLX5-APM950-260-S</b> 426550 / 1120889	860 MM 33-27/32"	422 MM 16-5/8"	10.8 Kg 23.81 LBS	950 MM – 1,210 MM 37-13/32" – 47-5/8"	5007-FLX5-APM-950/5,6,8,9	428045
<b>5007-FLX5-APM950-260-S</b> 426550 / 1120889	860 MM 33-27/32"	422 MM 16-5/8"	10.8 Kg 23.81 LBS	950 MM – 1,210 MM 37-13/32" – 47-5/8"	5007-FLX5-APM-950/4	428049*
<b>5007-FLX5-APM970-320-S</b> 426551 / 1120891	880 MM 34-21/32"	482 MM 18-31/32"	10.3 Kg 23.15 LBS	970 MM – 1,290 MM 38-3/16" – 50-25/32"	5007-FLX5-APM-970/5,6,8,9	428046
<b>5007-FLX5-APM970-320-S</b> 426551 / 1120891	880 MM 34-21/32"	482 MM 18-31/32"	10.3 Kg 23.15 LBS	970 MM – 1,290 MM 38-3/16" – 50-25/32"	5007-FLX5-APM-970/4	428055*
<b>5007-FLX5-APM1040-350-S</b> 426552 / 1120864	950 MM 37-13/32"	512 MM 20-5/32"	11.5 Kg 25.4 LBS	1,040 MM – 1,390 MM 40-15/16" – 54-23/32"	5007-FLX5-APM-1040/5,6,8,9	428047
<b>5007-FLX5-APM1040-350-S</b> 426552 / 1120864	950 MM 37-13/32"	512 MM 20-5/32"	11.5 Kg 25.4 LBS	1,040 MM – 1,390 MM 40-15/16" – 54-23/32"	5007-FLX5-APM-1040/4	428057*
<b>5007-FLX5-APM1056-130-S</b> 358447 / 1131076	966 MM 38-1/32"	290 MM 11-7/16"	10.61 Kg 23.4 LBS	1,056 MM – 1,186 MM 41-9/16" – 46-11/16"	5007-FLX5-APM-1056/5,6,8,9	360769
<b>5007-FLX5-APM1056-130-S</b> 358447 / 1131076	966 MM 38-1/32"	290 MM 11-7/16"	10.61 Kg 23.4 LBS	1,056 MM – 1,186 MM 41-9/16" – 46-11/16"	5007-FLX5-APM-1056/4	360774*
<b>5007-FLX5-APM1090-190</b> 312571 / 1154800	1,000 MM 39-3/8"	356 MM 14-1/32"	10.6 Kg 23.37 LBS	1,090 MM – 1,280 MM 42-29/32" – 50-3/8"	5007-FLX5-APM-1090/5,6,8,9	317899
<b>5007-FLX5-APM1090-190</b> 312571 / 1154800	1,000 MM 39-3/8"	356 MM 14-1/32"	10.6 Kg 23.37 LBS	1,090 MM – 1,280 MM 42-29/32" – 50-3/8"	5007-FLX5-APM-1090-190/4	317900*
<b>5007-FLX5-APM1090-435-S</b> 427873 / 1120869	1,000 MM 39-3/8"	595 MM 23-7/16"	12.5 Kg 27.56 LBS	1,090 MM – 1,525 MM 42-29/32" – 60-1/32"	5007-FLX5-APM-1090/5,6,8,9	430360
<b>5007-FLX5-APM1090-435-S</b> 427873 / 1120869	1,000 MM 39-3/8"	595 MM 23-7/16"	12.5 Kg 27.56 LBS	1,090 MM – 1,525 MM 42-29/32" – 60-1/32"	5007-FLX5-APM-1090-435/4	430361*
<b>5007-FLX5-APM1150-224-S</b> 408810 / 1120875	1,060 MM 41-23/32"	384 MM 15-1/8"	11.48 Kg 25.3 LBS	1,150 MM – 1,374 MM 45-1/4" – 54-1/16"	5007-FLX5-APM-1150/5,6,8,9	428059
<b>5007-FLX5-APM1150-224-S</b> 408810 / 1120875	1,060 MM 41-23/32"	384 MM 15-1/8"	11.48 Kg 25.3 LBS	1,150 MM – 1,374 MM 45-1/4" – 54-1/16"	5007-FLX5-APM-1150-224/4	428060*
<b>5007-FLX5-APM1195-300-S</b> 408811 / 1120878	1,105 MM 43-1/2"	470 MM 18-1/2"	12.11 Kg 26.7 LBS	1,195 MM – 1,495 MM 47-1/16" – 58-7/8"	5007-FLX5-APM-1195/5,6,8,9	408815
<b>5007-FLX5-APM1195-300-S</b> 408811 / 1120878	1,105 MM 43-1/2"	470 MM 18-1/2"	12.11 Kg 26.7 LBS	1,195 MM – 1,495 MM 47-1/16" – 58-7/8"	5007-FLX5-APM-1195-300/4	408822*
<b>5007-FLX5-APM1195-350-S</b> 427636 / 1153801	1,105 MM 43-1/2"	510 MM 20-1/16"	12.25 Kg 27 LBS	1,195 MM – 1,545 MM 47-1/16" – 60-13/16"	5007-FLX5-APM-1195/5,6,8,9	451013
<b>5007-FLX5-APM1195-350-S</b> 427636 / 1153801	1,105 MM 43-1/2"	510 MM 20-1/16"	12.25 Kg 27 LBS	1,195 MM – 1,545 MM 47-1/16" – 60-13/16"	5007-FLX5-APM-1195-350/4	428063*

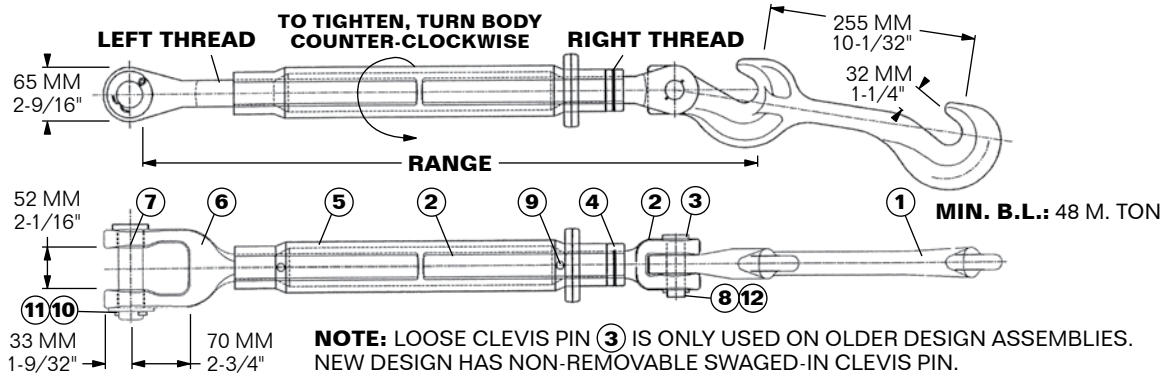
\*NOTE: APM # INCLUDES JAW w/ CLEVIS PIN. BUI # INCLUDES JAW ONLY; CLEVIS PIN MUST BE PURCHASED SEPARATELY. SEE BELOW FOR PART # INFORMATION.

ITEM	QTY	MODEL	APM #	DESCRIPTION	WEIGHT
1	1	<b>5007-APM-510-00/7</b>	317890 / 334316	CLEVIS PIN	0.66 Kg / 1.46 LBS
2	1	<b>5007-APM-510-00/10</b>	317891 / 334317	WASHER	0.03 Kg / 0.05 LBS
3	1	<b>5201-4561-SS</b>	317892	COTTER PIN	0.01 Kg / 0.02 LBS
7	1	<b>5007-FLX5-APM/004026</b>	408823	SAFETY SELF-LOCK	0.9 Kg / 2 LBS
8	1	<b>5007-FLX5-APM/8</b>		SLIDING GUIDE	1.09 Kg / 2.4 LBS

MIN. B.L.: 50 M. TON

**MATERIAL: STEEL FINISH: HOT-DIP GALVANIZED (HDG)**



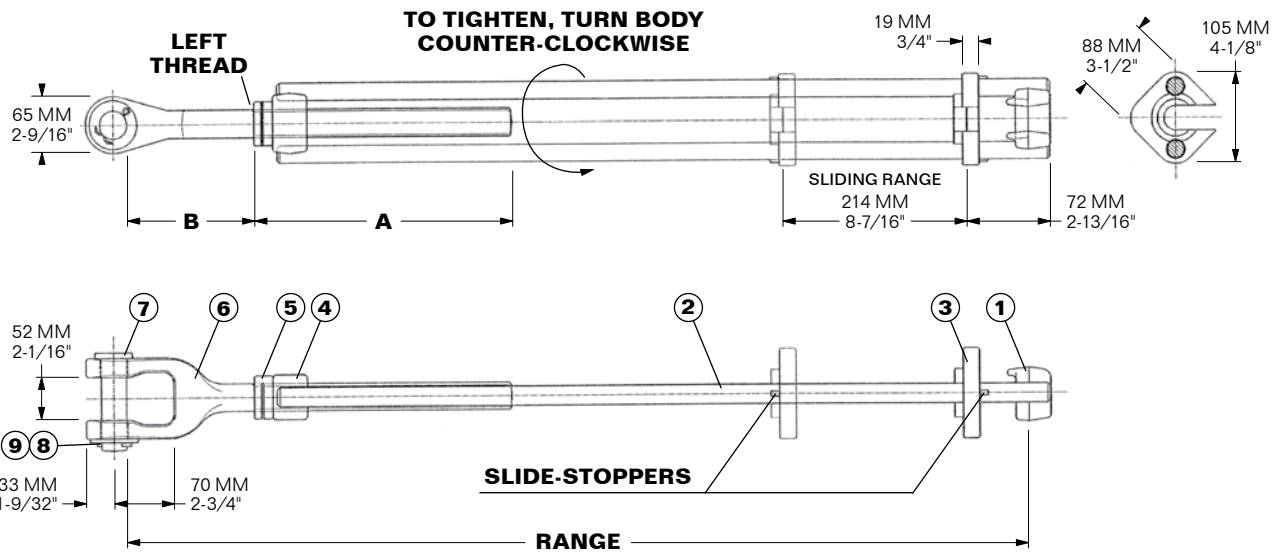


MODEL & APM#	WEIGHT	RANGE	A: DOUBLE HOOK ① w/ JAW & SHANK ASSY. ② w/ SWAGED-IN PIN	APM #
			B: JAW & SHANK ② FOR HOOK	
			C: JAW & SHANK ⑥ FOR LASHING EYE	
			D: BODY ⑤	
<b>5007-APM-510-00</b> 345361	11.7 Kg 25.8 LBS	510 – 620 MM 20" – 24-7/16"	A: 5007-APM-510-00/1+2 Assembly	
			B: 5007-APM-510-00/2	308119
			C: 5007-APM-510-00/6	308113
			D: 5007-APM-510-00/5	
<b>5007-APM-550-00</b> 345362	12.3 Kg 27.1 LBS	550 – 700 MM 21-11/16" – 27-9/16"	A: 5007-APM-550-00/1+2 Assembly	
			B: 5007-APM-550-00/2	308120
			C: 5007-APM-550-00/6	308114
			D: 5007-APM-550-00/5	
<b>5007-APM-620-00</b> 313812	13.7 Kg 30.2 LBS	620 – 840 MM 24-7/16" – 33"	A: 5007-APM-620-00/1+2 Assembly	
			B: 5007-APM-620-00/2	317880
			C: 5007-APM-620-00/6	317881
			D: 5007-APM-620-00/5	317879
<b>5007-APM-705-00</b> 308027	15.1 Kg 33.3 LBS	705 – 1,010 MM 27-3/4" – 39-3/4"	A: 5007-APM-705-00/1+2 Assembly	
			B: 5007-APM-705-00/2	308121
			C: 5007-APM-705-00/6	308115
			D: 5007-APM-705-00/5	
<b>5007-APM-735-00</b> 326911	15.4 Kg 34 LBS	735 – 1,070 MM 28-15/16" – 42-1/8"	A: 5007-APM-735-00/1+2 Assembly	
			B: 5007-APM-735-00/2	326914
			C: 5007-APM-735-00/6	326915
			D: 5007-APM-735-00/5	339140
<b>5007-APM-750-00</b> 308028	15.6 Kg 34.4 LBS	750 – 1,100 MM 29-1/2" – 43-5/16"	A: 5007-APM-750-00/1+2 Assembly	
			B: 5007-APM-750-00/2	308122
			C: 5007-APM-750-00/6	308116
			D: 5007-APM-750-00/5	317882
<b>5007-APM-850-00</b> 308031	17.3 Kg 38.1 LBS	850 – 1,300 MM 33-15/32" – 51-3/16"	A: 5007-APM-850-00/1+2 Assembly	
			B: 5007-APM-850-00/2	308124
			C: 5007-APM-850-00/6	308118
			D: 5007-APM-850-00/5	317883

ITEM	QTY	MODEL	APM #	DESCRIPTION	WEIGHT
1	1	<b>5007-APM-510-00/1</b>	308125	DOUBLE HOOK	3.76 Kg / 8.3 LBS
3	1	<b>5007-APM-510-00/3</b>	308126	CLEVIS PIN, NON-SWAGED	0.2 Kg / 0.44 LBS
4	1	<b>5007-APM-510-00/4</b>	326550	LOCK NUT RIGHT-HAND THREAD, ACME 1-1/4" – 5 TPI	0.24 Kg / 0.54 LBS
7	1	<b>5007-APM-510-00/7</b>	317890/334316	CLEVIS PIN	0.66 Kg / 1.46 LBS
8	1	<b>5008-APM-2100-00/6</b>	308145/1	SPRING PIN, 6 x 28 MM, SS	0.07 Kg / 0.15 LBS
9	2	<b>5007-APM-510-00/9</b>	308137	PLUG, PLASTIC	0.01 Kg / 0.02 LBS
10	1	<b>5007-APM-510-00/10</b>	317891/334317	WASHER, SS	0.03 Kg / 0.05 LBS
11	1	<b>5201-4561-SS</b>	317892	COTTER PIN, 6 x 50 MM	0.01 Kg / 0.02 LBS
12	1	<b>5008-APM-2100-00/7</b>	308145/2	SPRING PIN, 3.5 x 28 MM, SS	0.02 Kg / 0.05 LBS

**5007**





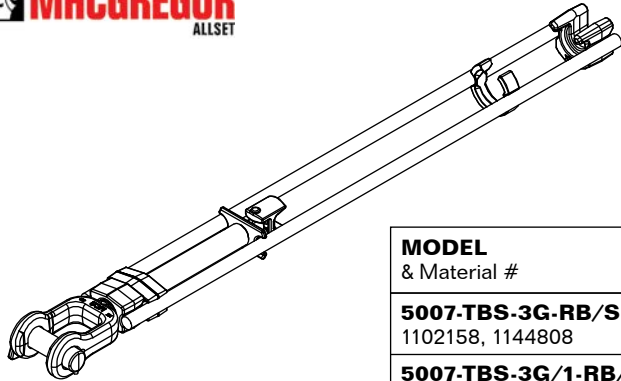
5007

MODEL & APM #	A	B	WEIGHT	RANGE	BODY w/ PARTS ①②③④	APM #
					JAW ⑥ (SOLD w/o CLEVIS PIN)	
<b>5007-APM-840-140-00</b> 312572	206 MM 8-1/8"	100 MM 3-15/16"	9.8 Kg 21.5 LBS	840 – 980 MM 33-1/16" – 38-9/16"	5007-APM-840/1-4	317897
					5007-APM-840-140/6	317898
<b>5007-APM-840-180-00</b> 324143 / 424990	246 MM 9-11/16"	100 MM 3-15/16"	9.4 Kg 20.7 LBS	840 – 1,020 MM 33-1/16" – 40-5/32"	5007-APM-840/1-4	324823
					5007-APM-840-180/6	324825
<b>5007-APM-1050-230-00</b> 324144 / 424991	299 MM 11-3/4"	147 MM 5-25/32"	10.07 Kg 22.2 LBS	1,050 – 1,280 MM 41-3/8" – 50-3/8"	5007-APM-1050/1-4	324824
					5007-APM-1050-230/6	324826
<b>5007-APM-1090-190-00</b> 312571 / 317899	256 MM 10-1/16"	100 MM 4"	11.5 Kg 25.3 LBS	1,090 – 1,280 MM 43" – 50-3/8"	5007-APM-1090/1-4	312571/317899
					5007-APM-1090/6	317900
<b>5007-APM-1225-220-00</b> 312570 / 424992	412 MM 16-1/4"	100 MM 4"	10.82 Kg 23.85 LBS	1,090 – 1,445 MM 43" – 56-7/8"	5007-APM-1225/1-4	317901
					5007-APM-1225-220/6	317902

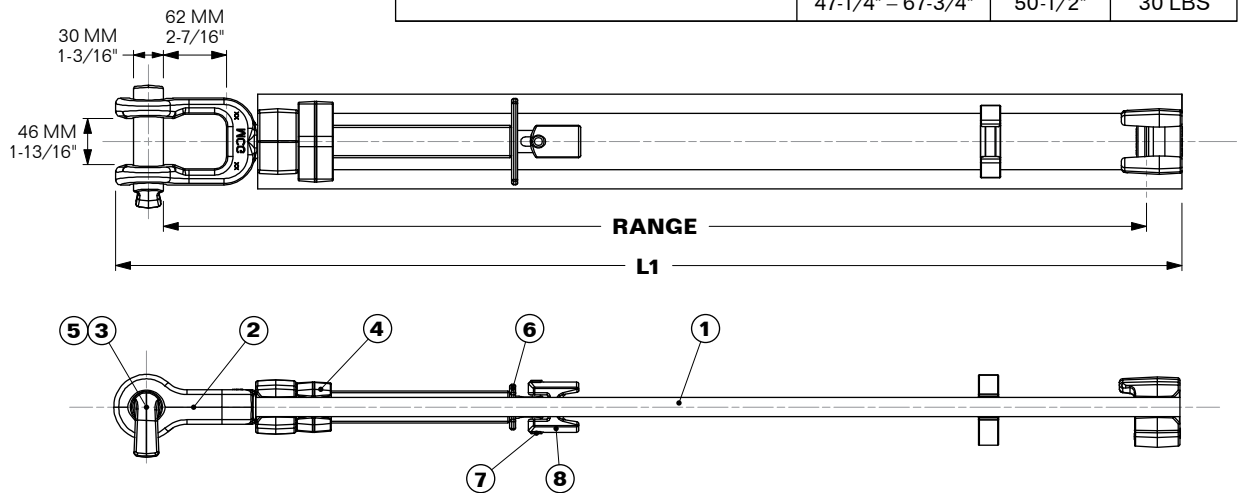
ITEM	QTY	MODEL	APM #	DESCRIPTION	WEIGHT
5	1	<b>5007-FLX5-APM-5</b>	326549	LOCK NUT LEFT-HAND THREAD, ACME 1-1/4" – 5 TPI	0.24 Kg / 0.54 LBS
7	1	<b>5007-APM-510-00/7</b>	317890/334316	CLEVIS PIN	0.66 Kg / 1.46 LBS
8	1	<b>5007-APM-510-00/10</b>	317891/334317	WASHER	0.03 Kg / 0.05 LBS
9	1	<b>5201-4561-SS</b>	317892	COTTER PIN	0.01 Kg / 0.02 LBS

MIN. B.L.: 48 M. TON

**MATERIAL: STEEL FINISH: HOT-DIP GALVANIZED (HDG)**



MODEL & Material #	RANGE	L1	WEIGHT
<b>5007-TBS-3G-RB/SR-1236915</b> 1102158, 1144808	975 – 1,255 MM 38-3/8" – 49-3/8"	1,058 MM 41-5/8"	11.1 Kg 24.5 LBS
<b>5007-TBS-3G/1-RB/SR-1236914</b> 1086963	1,080 – 1,485 MM 42-1/2" – 58-1/2"	1,163 MM 45-3/4"	12.3 Kg 27.1 LBS
<b>5007-TBS-3G/V-RB/SR-1236916</b> 1144810	1,117 – 1,545 MM 44" – 60-7/8"	1,200 MM 47-1/4"	12.6 Kg 27.8 LBS
<b>5007-TBS-3G/V2-RB/SR-1241703</b>	1,171 – 1,671 MM 46-1/8" – 65-3/4"	1,254 MM 49-3/8"	13.3 Kg 29.3 LBS
<b>5007-TBS-3G/9-RB/SR-1236917</b>	1,200 – 1,720 MM 47-1/4" – 67-3/4"	1,283 MM 50-1/2"	13.6 Kg 30 LBS



ITEM	QTY.	DESCRIPTION	MATERIAL #	BUI #
1	1	Body	Buy Turnbuckle	— n/a —
2	1	Jaw w/ Shank	Buy Turnbuckle	— n/a —
3	1	Clevis Pin	1034364	<b>5007-TBS-1034364</b>
4	1	Sliding Nut	1065066	<b>5007-TBS-3G-1065066</b>
5	1	Groove Pin (SS)	1009578, 1065087	<b>5007-TBS-1065087/1009578</b>
6	1	Shank Guide	1087094	<b>5007-TBS-3G-1087094</b>
7	1	Rivet (SS)	1236933	<b>5007-TBS-3G-1236933</b>
8	1	Slack Reducer	1087093, 1087102	<b>5007-TBS-3G-1087093</b>

FOR OPERATING,  
USE SPANNER TOOL:  
**5007-B-88/1**  
(Material #1065091)

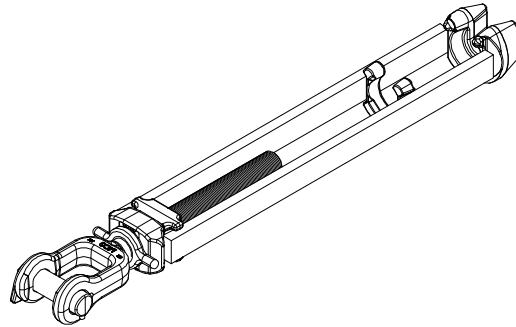
**MIN. BREAKING STRENGTH (MBS):** 50 M. Ton

**MATERIAL:** HIGH-TENSILE STEEL **FINISH:** HOT-DIP GALVANIZED **GREASED:** SPINDLE ONLY

5007

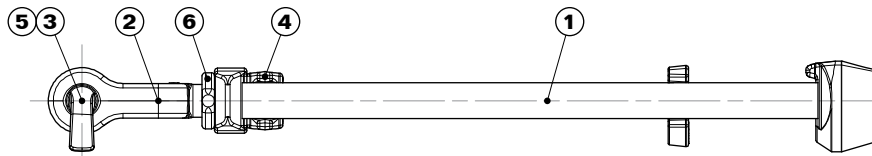
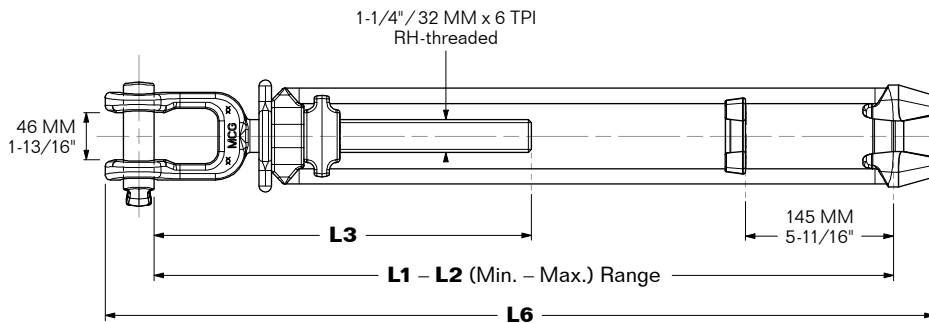






MODEL & Material #	L1 - L2 (Min.-Max.) Range	L3	L6 Overall Length	WEIGHT
<b>5007-TBS-3G/1-FB-CN-1238091</b> 1238083 & 1238086	1,080 – 1,490 MM 42-1/2" – 58-11/16"	592 MM 23-5/16"	1,162 MM 45-3/4"	16.7 Kg 36.8 LBS
<b>5007-TBS-3G/V2-FB-CN-1238094</b> 1238105 & 1238088	1,130 – 1,620 MM 44-1/2" – 63-3/4"	672 MM 26-7/16"	1,213 MM 47-3/4"	17.6 Kg 38.8 LBS

5007



ITEM	QTY.	DESCRIPTION	MATERIAL #	BUI #
1	1	Body	Buy Turnbuckle	— n/a —
2	1	Jaw w/ Shank	Buy Turnbuckle	— n/a —
3	1	Clevis Pin	1034364	<b>5007-TBS-1034364</b>
4	1	Sliding Nut	1034513	<b>5007-TBS-3G-1034513</b>
5	1	Groove Pin (SS)	1009578, 1065087	<b>5007-TBS-1065087/1009578</b>
6	1	Counter Nut	1058850	<b>5007-TBS-3G-1058850</b>

FOR OPERATING,  
USE SPANNER TOOL:  
**5007-B-88**  
(Material #1009984)

**MIN. BREAKING STRENGTH (MBS):** 50 M. Ton

**MATERIAL:** HIGH-TENSILE STEEL **FINISH:** HOT-DIP GALVANIZED **GREASED:** SHANK ONLY

**MIN. B.S.:** 36 M. TON IN YOKE

**MATERIAL:** FORGED STEEL  
**FINISH:** HOT-DIP GALVANIZED (HDG)  
**WEIGHT:** 0.9 Kg / 1.9 LBS

**MODEL 5007-2438**  
w/ Gravity Latch,  
for Turnbuckle

**MATERIAL:** FORGED STEEL  
**FINISH:** HOT-DIP GALVANIZED (HDG)  
**WEIGHT:** 0.9 Kg / 2 LBS

**MODEL 5007-2786**  
w/ Gravity Latch,  
for Gangway

**MATERIAL:** FORGED STEEL  
**FINISH:** HOT-DIP GALVANIZED (HDG)  
**WEIGHT:** 0.5 Kg / 1.2 LBS

**MODEL 5007-6861**  
w/ Gravity Latch

**MATERIAL:** FORGED STEEL  
**FINISH:** HOT-DIP GALVANIZED (HDG)  
**WEIGHT:** 0.8 Kg / 1.7 LBS

**MODEL 5007-7385**  
for German Lashing  
Turnbuckle TB3

Supplied  
w/ Hex Bolt

**HEX BOLT**  
1110-4582-SS  
**LENGTH:** 8-1.25 x 25 MM  
**MATERIAL:** STAINLESS STEEL

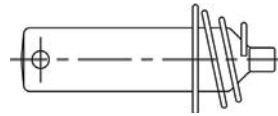
**5007**





**MODEL 5007-TB-50-TGN**

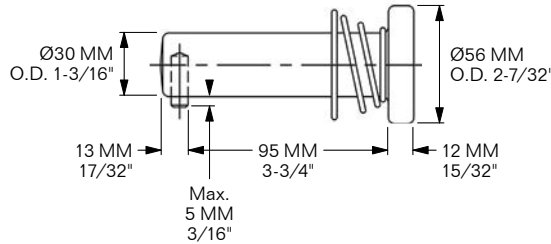
**TOGGLE PIN** w/ Spring & SS Stop Pin



Fits all M5, M6, M7, Elt 55,  
Elt 65 & FLX 5 Turnbuckles.

Supplied w/ Stop Pin loose that is fitted  
after the Toggle Pin is inserted into the Jaw.

Ask for Fitting Instructions.

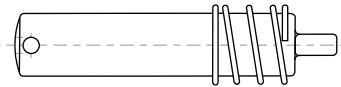


**SUB FOR:** APM 357416  
**WEIGHT:** 1.57 LBS / 0.71 Kg



**MODEL 5007-TB-50-TGN-140**

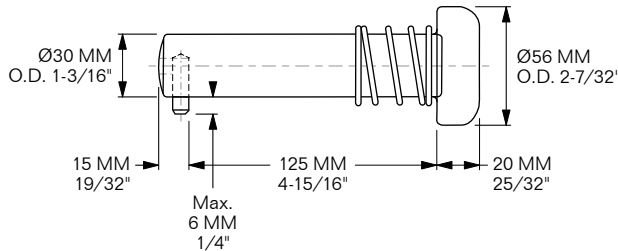
**TOGGLE PIN** w/ Spring & Loose SS Stop Pin,  
Universal, 30mm x 140mm



Generic Type. Fits most wide-Jaw  
Turnbuckles such as AMC, MacGregor/  
Conver and Peck & Hale.

Supplied w/ Stop Pin loose that is fitted  
after the Toggle Pin is inserted into the Jaw.

Ask for Fitting Instructions.



**WEIGHT:** 1.95 LBS / 0.89 Kg

5007

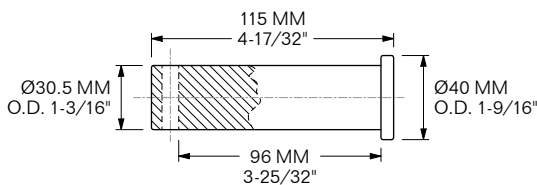


**TOGGLE / CLEVIS PIN MODEL 5007-APM-510-00/7**

**WASHER MODEL 5007-APM-510-00/10**

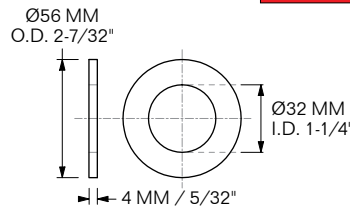
**COTTER PIN MODEL 5201-4561-SS**

For APM Turnbuckles & FLX5 (700 to 1195 series)



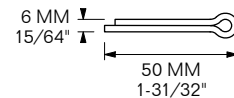
CLEVIS PIN 5007-APM-510-00/7

**SUB FOR:** APM 317890, 334316  
& MACGREGOR 1131343  
**MATERIAL:** FORGED STEEL  
**FINISH:** HOT-DIP GALVANIZED  
**WEIGHT:** 1.45 LBS / 0.66 Kg



WASHER 5007-APM-510-00/10

**SUB FOR:** APM 317891, 334317  
& MACGREGOR 1131344  
**MATERIAL:** STAINLESS STEEL  
**FINISH:** SELF-COLOR  
**WEIGHT:** 0.09 LBS / 0.04 Kg



COTTER PIN 5201-4561-SS

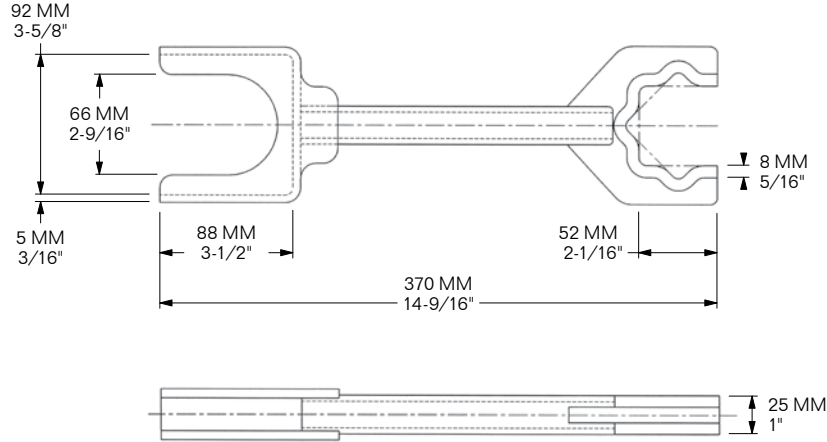
**SUB FOR:** APM 317892  
& MACGREGOR 1131301  
**MATERIAL:** STAINLESS STEEL  
**FINISH:** SELF-COLOR  
**WEIGHT:** 0.03 LBS / 0.014 Kg





**MODEL 5007-3125-12**

for Maersk-type Turnbuckle



**SUB FOR:** APM 313376  
**FINISH:** HOT-DIP GALVANIZED (HDG)  
**WEIGHT:** 1.4 Kg / 3 LBS

**5007**

# TURNBUCKLE WRENCHES & VISE HANDLE

**MODEL 5007-FLX5-W**  
**WRENCH** for FLX5 Turnbuckle

**FINISH: HOT-DIP GALVANIZED (HDG)**  
**WEIGHT: 2.42 LBS / 1.1 Kg**

**MODEL 5007-M5-W-250**  
**MODEL 5007-M5-W-350**  
**WRENCH** for M5 Turnbuckle

**FINISH: HOT-DIP GALVANIZED (HDG)**  
**250 MM WEIGHT: 1.75 LBS / 0.79 Kg**  
**350 MM WEIGHT: 2.4 LBS / 1.08 Kg**

**MODEL 5007-M5-B**  
**VICE HANDLE**  
for M5 Turnbuckle

**FINISH: HOT-DIP GALVANIZED (HDG)**  
**WEIGHT: 1.7 LBS / 0.77 Kg**

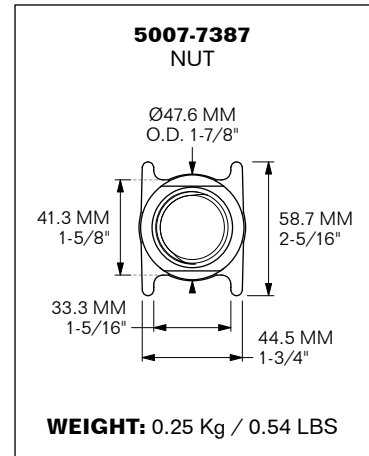
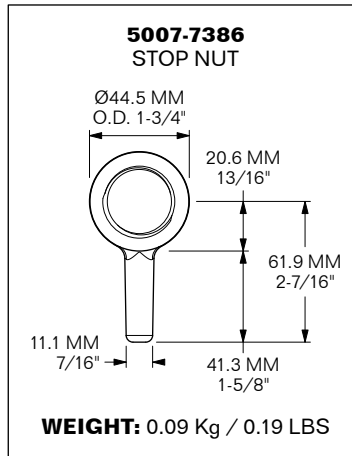
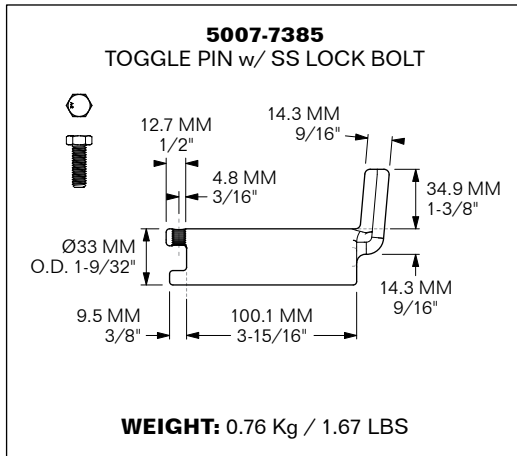
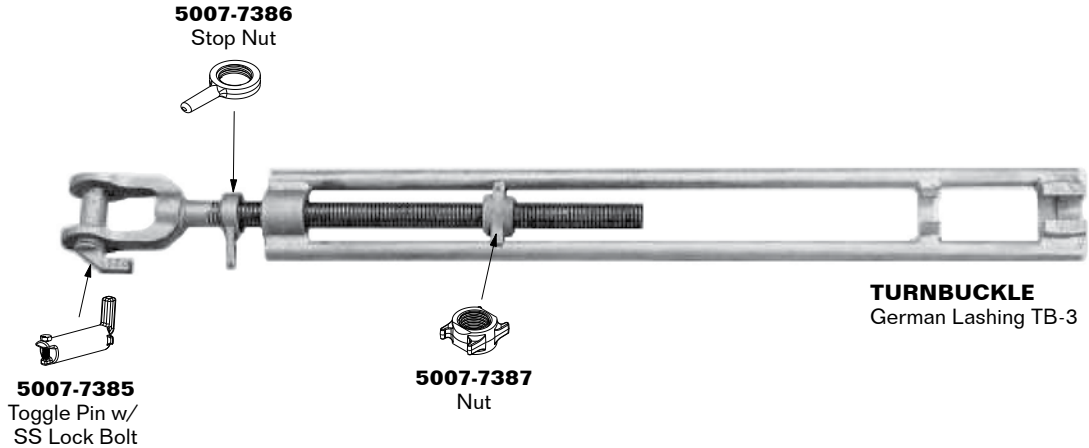
**5007**



**TOGGLE PIN w/ SS Lock Bolt** **MODEL 5007-7385**

**STOP NUT** **MODEL 5007-7386**

**NUT** **MODEL 5007-7387**



**MIN. B.L.:** 50 M. TON  
**SAFE WORKING LOAD (SWL):** 25 M. TON

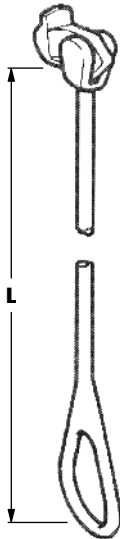
**MATERIAL:** DROP-FORGED, HIGH-TENSILE STEEL  
**FINISH:** HOT-DIP GALVANIZED (HDG)

**5007**

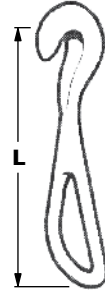




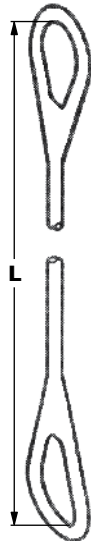
**MODEL 5008-ELB-C**



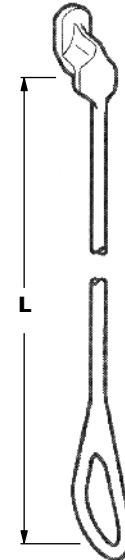
**MODEL 5008-LB-4-310**



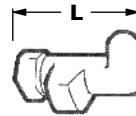
**MODEL 5008-A7D**



**MODEL 5008-A7B-2**



**MODEL 5008-C6**



5008

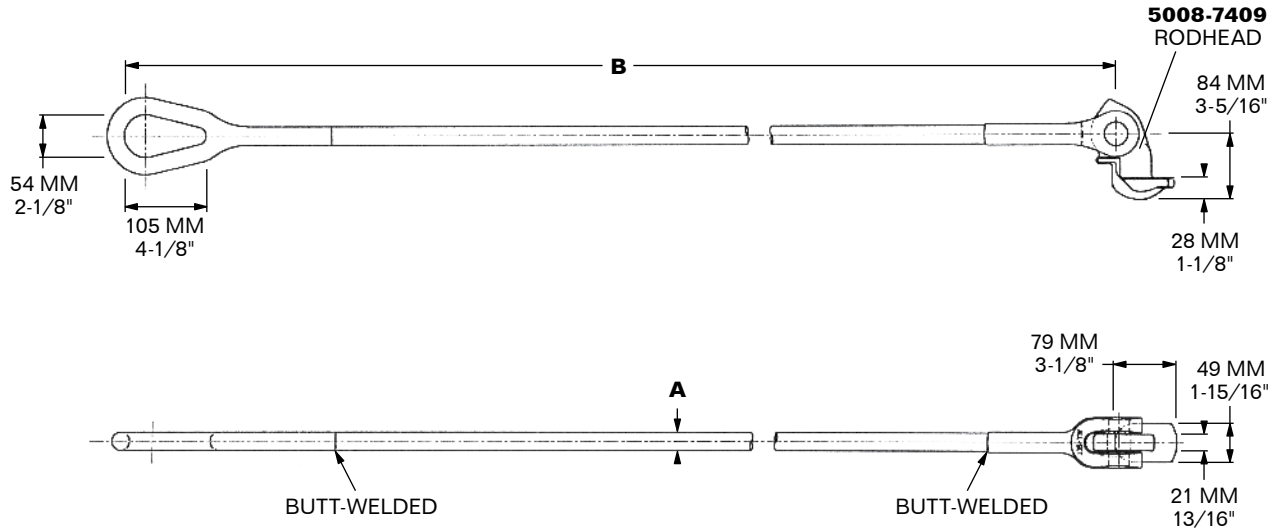
**SPECIAL ORDER ONLY**

**SPECIAL ORDER ONLY**

MODEL	MIN. B.S. (M. TON)	WEIGHT	
		L = 2,400 MM / 94-1/2"	L = 4,700 MM / 185-1/32"
<b>5008-ELB-C-36</b>	36	10.3 Kg / 22.7 LBS	17.1 Kg / 37.7 LBS
<b>5008-ELB-C-50</b>	50	12.1 Kg / 26.7 LBS	21.3 Kg / 46.9 LBS
<b>5008-A7B-2-36</b>	36	8.90 Kg / 19.6 LBS	15.8 Kg / 34.8 LBS
<b>5008-A7D-50-1750</b>	50	7.83 Kg / 17.25 LBS	L = 1,750 MM / 68-7/8"
<b>5008-A7D-50-2550</b>	50	11.34 Kg / 25 LBS	L = 2,550 MM / 100-13/32"
<b>5008-LB-4-310</b>	50	3.25 Kg / 7.16 LBS	L = 310 MM / 12-7/32"
<b>5008-C6</b>	36	3 Kg / 6.61 LBS	L = 125 MM / 4-29/32"

**COUNTER PARTS:** ISO CONTAINER CORNER  
CASTING & TURNBUCKLES TYPE M5 & ELT

**MATERIAL:** HIGH-TENSILE STEEL  
**FINISH:** HOT-DIP GALVANIZED (HDG)  
**CLASS APPROVED**

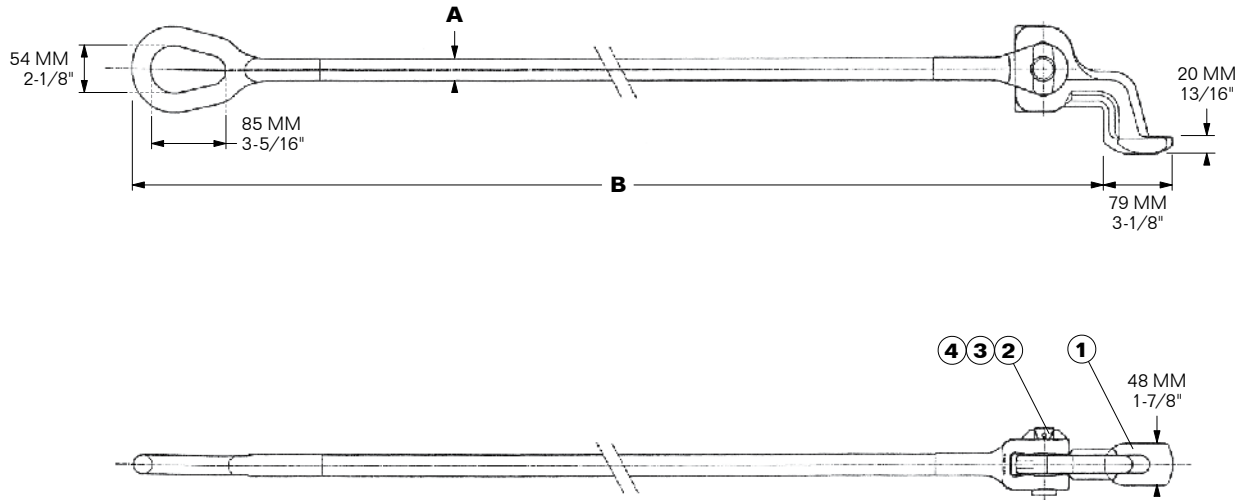


**5008**

	MODEL	MIN. B.S. (M. TON)	A	B	WEIGHT
<b>SPECIAL ORDER ONLY</b>	<b>5008-ELB-C-36-2300</b>	36	22 MM / 7/8"	2,300 MM / 90.6"	9.90 Kg / 21.8 LBS
<b>SPECIAL ORDER ONLY</b>	<b>5008-ELB-C-36-2400</b>	36	22 MM / 7/8"	2,400 MM / 94.5"	10.3 Kg / 22.8 LBS
<b>SPECIAL ORDER ONLY</b>	<b>5008-ELB-C-36-4550</b>	36	22 MM / 7/8"	4,550 MM / 179.1"	17.3 Kg / 38.1 LBS
	<b>5008-ELB-C-36-4670</b>	36	22 MM / 7/8"	4,670 MM / 183.9"	17.0 Kg / 37.6 LBS
<b>SPECIAL ORDER ONLY</b>	<b>5008-ELB-C-36-4700</b>	36	22 MM / 7/8"	4,700 MM / 185"	17.1 Kg / 37.7 LBS
	<b>5008-ELB-C-42-4500</b>	42	22 MM / 7/8"	4,500 MM / 177.2"	15.9 Kg / 35.0 LBS
	<b>5008-LB-10/22-4500</b>				
	<b>5008-ELB-C-50-2150</b>	50	25 MM / 1"	2,150 MM / 84.6"	11.0 Kg / 24.3 LBS
	<b>5008-ELB-C-50-2200</b>	50	25 MM / 1"	2,200 MM / 86.6"	10.9 Kg / 24.0 LBS
	<b>5008-ELB-C-50-2260</b>	50	25 MM / 1"	2,260 MM / 89"	11.6 Kg / 25.6 LBS
<b>SPECIAL ORDER ONLY</b>	<b>5008-ELB-C-50-2300</b>	50	25 MM / 1"	2,300 MM / 90.6"	11.6 Kg / 25.9 LBS
<b>SPECIAL ORDER ONLY</b>	<b>5008-ELB-C-50-2330</b>	50	25 MM / 1"	2,330 MM / 91.7"	13.2 Kg / 29.0 LBS
	<b>5008-ELB-C-50-2400</b>	50	25 MM / 1"	2,400 MM / 94.5"	14.0 Kg / 30.9 LBS
	<b>5008-ELB-C-50-4700</b>	50	25 MM / 1"	4,700 MM / 185"	21.0 Kg / 46.3 LBS
	<b>5008-LB-10-4500</b>	50	25 MM / 1"	4,500 MM / 177.2"	19.96 Kg / 44 LBS
<b>SPECIAL ORDER ONLY</b>	<b>5008-LB-10-5029</b>	50	25 MM / 1"	5,029 MM / 198"	23.3 Kg / 51.36 LBS

**MATERIAL: STEEL**  
**FINISH: HOT-DIP GALVANIZED (HDG)**  
**CLASS APPROVED**





5008

**SPECIAL ORDER ONLY**

MODEL	APM #	A	B	WEIGHT
<b>5008-LB-2100-00</b>	308044	25 MM / 1"	2,100 MM / 82-11/16"	11.7 Kg / 25.8 LBS
<b>5008-LB-2505-00</b>	308046	25 MM / 1"	2,505 MM / 98-5/8"	13 Kg / 28.8 LBS
<b>SPECIAL ORDER ONLY</b>				
<b>5008-LB-2690-00</b>	312852	25 MM / 1"	2,690 MM / 105-7/8"	13.9 Kg / 30.6 LBS
<b>SPECIAL ORDER ONLY</b>				
<b>5008-LB-3000-00</b>	308048	25 MM / 1"	3,000 MM / 118-1/8"	15.1 Kg / 33.3 LBS

ITEM	QTY.	MODEL	APM #	DESCRIPTION	WEIGHT
1	1	<b>5008-APM-2100-00/1</b>	308142	RODHEAD, HDG	2.1 Kg / 4.6 LBS
2	1	<b>5008-APM-2100-00/5</b>	308144	PIN, HDG	0.25 Kg / 0.55 LBS
3	1	<b>5008-APM-2100-00/6</b>	308145/1	SPRING PIN 6 x 28 MM, SS	0.07 Kg / 0.15 LBS
4	1	<b>5008-APM-2100-00/7</b>	308145/2	SPRING PIN 3.5 x 28 MM, SS	0.02 Kg / 0.05 LBS

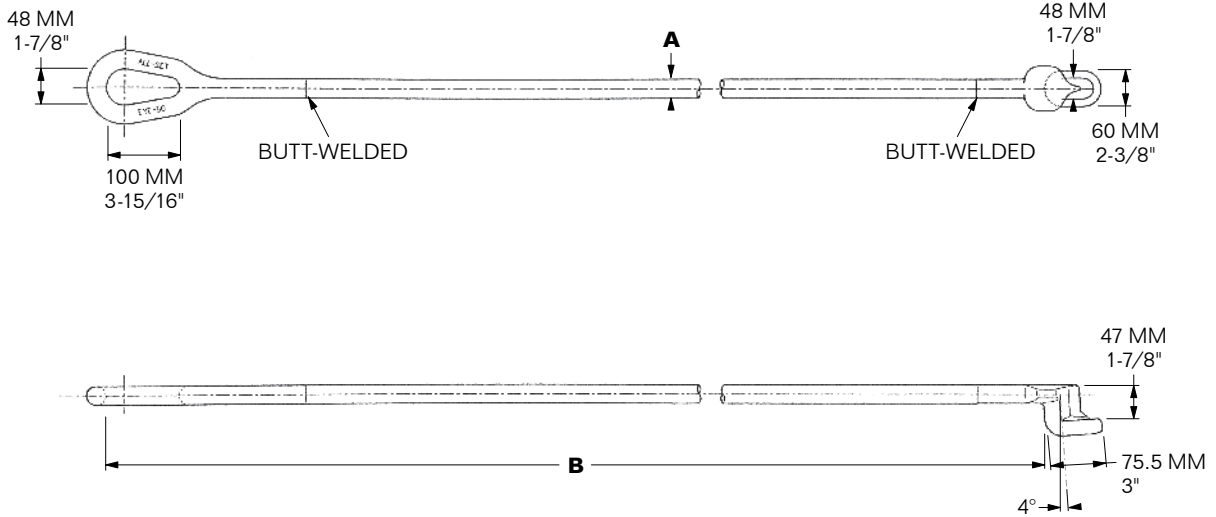
**NOTE:** THE 3.5 MM SPRING PIN FITS INSIDE THE 6 MM SPRING PIN.

**MIN. B.L.:** 48 M. TON

**MATERIAL:** STEEL  
**FINISH:** HOT-DIP GALVANIZED (HDG)



**MODEL 5008-A7B-2**



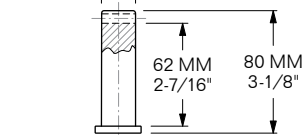
**5008**

	MODEL	MIN. B.L. (M. Ton)	A	B	WEIGHT
<b>SPECIAL ORDER ONLY</b>	<b>5008-A7B-2-36-2130</b>	36	22 MM / 7/8"	2,130 MM / 83.9"	8.8 Kg / 19.4 LBS
<b>SPECIAL ORDER ONLY</b>	<b>5008-A7B-2-36-2200</b>	36	22 MM / 7/8"	2,200 MM / 86.6"	9 Kg / 19.8 LBS
<b>SPECIAL ORDER ONLY</b>	<b>5008-A7B-2-36-4570</b>	36	22 MM / 7/8"	4,570 MM / 180"	14.9 Kg / 33 LBS
<b>SPECIAL ORDER ONLY</b>	<b>5008-A7B-2-36-4600</b>	36	22 MM / 7/8"	4,600 MM / 181.1"	15.9 Kg / 35 LBS
<b>SPECIAL ORDER ONLY</b>	<b>5008-A7B-2-36-4750</b>	36	22 MM / 7/8"	4,750 MM / 187"	15.9 Kg / 35 LBS

**MATERIAL: STEEL**  
**FINISH: HOT-DIP GALVANIZED (HDG)**  
**CLASS APPROVED**

### MODEL 5008-APM-2100-00/5

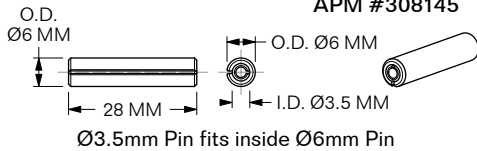
Ø22 MM  
O.D. 7/8" **PIN** for Lashing Bar Head  
APM #308144



**WEIGHT:** 0.25 Kg / 0.55 LBS

### MODEL 5008-APM-2100-00/6-7

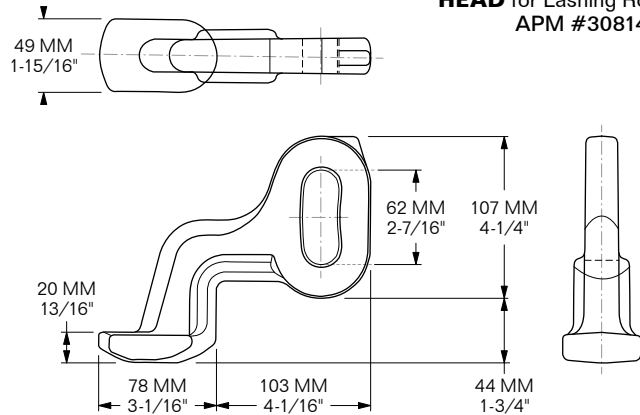
**SPRING PIN KIT** for Lashing Bar  
APM #308145



**WEIGHT:** 0.09 Kg / 0.2 LBS

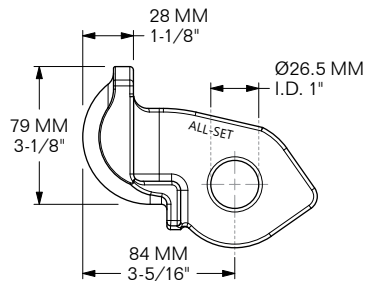
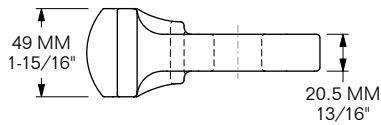
### MODEL 5008-APM-2100-00/1

**HEAD** for Lashing Rod  
APM #308142



**MATERIAL:** FORGED STEEL  
**FINISH:** HOT-DIP GALVANIZED (HDG)  
**WEIGHT:** 2.09 Kg / 4.6 LBS

5008

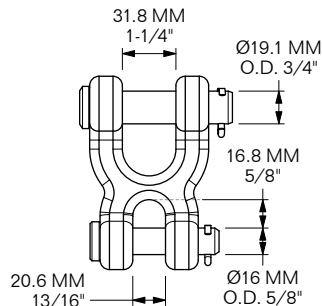
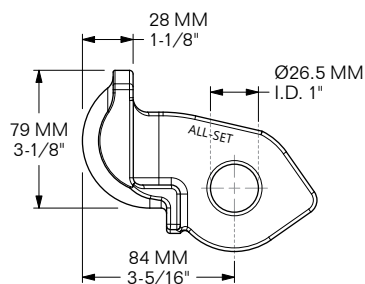
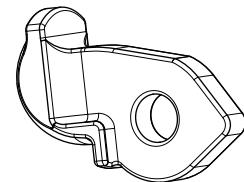


### MODEL 5008-7409-1-1071837

**HINGED ROD HEAD** for Lashing Rods  
ELT, FLX, LB-10, LB-11, LB-31

**WORKS WITH:** CLEVIS BOLT KIT  
5008-7409-2-1071836-KIT\*  
**MATERIAL:** FORGED STEEL  
**FINISH:** HOT-DIP GALVANIZED (HDG)  
**WEIGHT:** 1.26 Kg / 2.78 LBS

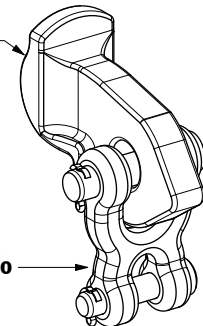
\*MOUNTING HARDWARE SOLD SEPARATELY  
(see catalog pg. 5008-6).



### MODEL 5008-7409-KIT

Hinged Lashing Rod Head  
5008-7409-1-1071837

Double Clevis Link  
2901-1/2DCLGR70



**MATERIAL:** FORGED STEEL **FINISH:** HOT-DIP GALVANIZED (HDG)  
**WEIGHT:** 2.02 Kg / 4.46 LBS **MBS:** 36,800 LBS / 16.6 M. TON

# FASTENING HARDWARE for HINGED LASHING ROD HEADS

**WORKS WITH:** HINGED ROD HEAD 5008-7409-2-1071837  
**KIT WEIGHT:** 0.66 LBS / 0.3 Kg

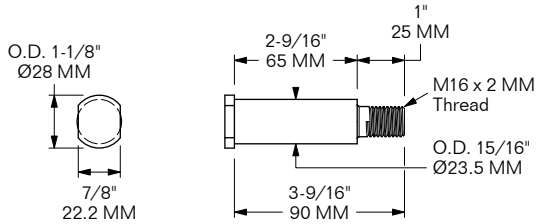
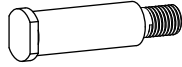
**MODEL 5008-7409-2-1071836-KIT**

**CLEVIS BOLT KIT** for Hinged Lashing Rod Head on LB-10, LB-11, LB-15 & LB-31 Lashing Bars

This kit contains 1 ea. of the following components:

(Components can also be purchased separately)

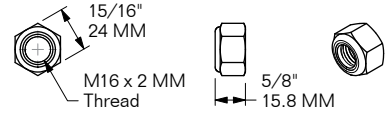
**5008-7409-2-1071836**  
**CLEVIS BOLT** w/  
 Ø23.5mm Body & M16 Thread



**MINIMUM BREAK STRENGTH: 50 M. TON**

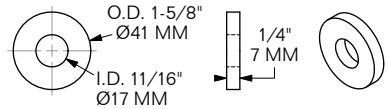
**SUB FOR:** MACGREGOR 1071836  
**MATERIAL:** HIGH-TENSILE STEEL  
**FINISH:** HOT-DIP GALVANIZED  
**WEIGHT:** 0.57 LBS / 0.26 Kg

**5008-7409-3**  
**HEX NUT**  
 w/ Nylon Insert,  
 M16 x 2mm Thread



**SUB FOR:** MACGREGOR 1009487  
**MATERIAL:** STAINLESS STEEL  
**FINISH:** SELF-COLOR  
**WEIGHT:** 0.07 LBS / 0.03 Kg

**5008-7409-4**  
**FLAT WASHER,**  
 17mm x 41mm x 7mm



**SUB FOR:** MACGREGOR 1009601  
**MATERIAL:** CARBON STEEL  
**FINISH:** HOT-DIP GALVANIZED  
**WEIGHT:** 0.02 LBS / 0.01 Kg

**5008**

**ALTERNATE BOLTING HARDWARE** for Hinged Lashing Rod Heads

For **BREAK STRENGTH** up to **50 M. TON**, use:



**5008-4929-G9**  
**HEX BOLT**  
 7/8"-9 x 3-1/2", Grade 9,  
 Geomet 720 coating

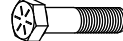


**5008-4719**  
**HEX NUT**  
 7/8" Self-locking,  
 Crimped End



**5008-4720-HDG**  
**FLAT WASHER**  
**SPECIAL ORDER ONLY**  
 7/8", HDG

For **BREAK STRENGTH** up to **42 M. TON**, use:

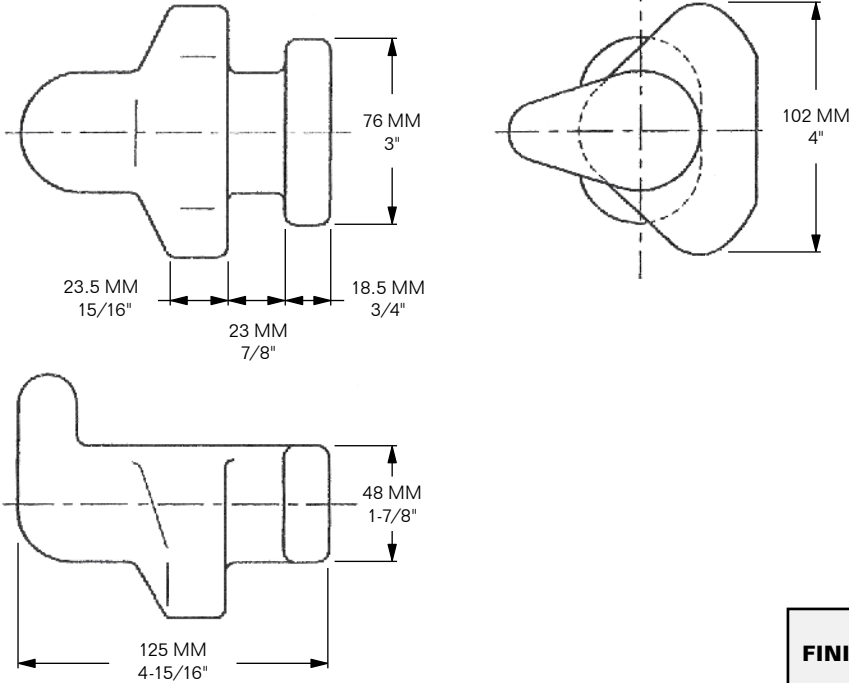


**5008-4717-G8** —OR—  
**HEX BOLT**  
 7/8"-9 x 3-1/2", Grade 8,  
 Zinc-plated

**5008-4718-G8**  
**HEX BOLT**  
**SPECIAL ORDER ONLY**  
 7/8"-9 x 4", Grade 8,  
 Zinc-plated

**MODEL 5008-C6**

**Penguin Hook,**  
Short



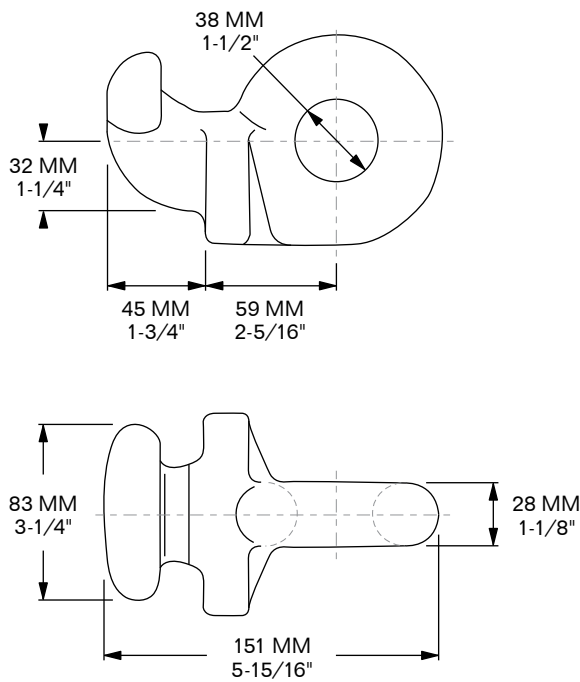
**MIN. B.S.:** 36 M. TON

**MATERIAL:** STEEL  
**FINISH:** HOT-DIP GALVANIZED (HDG)  
**WEIGHT:** 3 Kg / 6.61 LBS

**5008**

**SPECIAL ORDER ONLY MODEL 5008-2738**

**SECURING EYE PAD, FITS INTO ISO CORNER CASTINGS**



**MIN. B.S.:** 36 M. TON

**MATERIAL:** STEEL  
**FINISH:** HOT-DIP GALVANIZED (HDG)  
**WEIGHT:** 2.36 Kg / 5.2 LBS

**MODEL 5008-LB-4-310**  
**FULLY FORGED**

**MIN. B.L. TENSION:** 50 M. TON

**MATERIAL:** STEEL  
**FINISH:** HOT-DIP GALVANIZED (HDG)  
**WEIGHT:** 3.25 Kg / 7.2 LBS

**MODEL 5008-A7F-50-460/18**  
**MODEL 5008-A7F-50-610/24**  
**for High-Cube Containers,**  
**Butt-welded**

**MIN. B.L. TENSION:** 50 M. TON

**MATERIAL:** STEEL  
**FINISH:** HOT-DIP GALVANIZED (HDG)

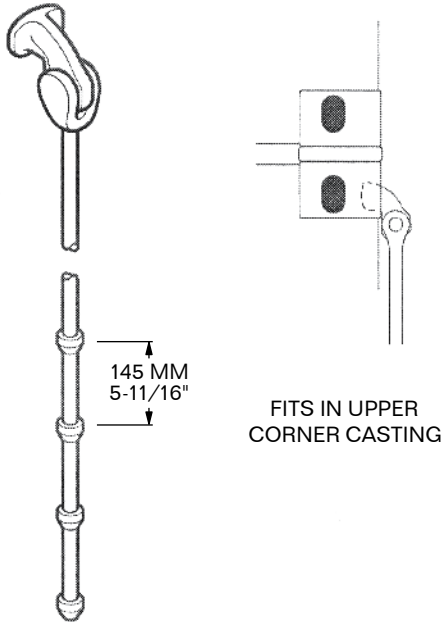
MODEL	A	WEIGHT
5008-A7F-50-460/18	457 MM / 18"	3.8 Kg / 8.4 LBS
5008-A7F-50-610/24	610 MM / 24"	4.4 Kg / 9.7 LBS

**5008**



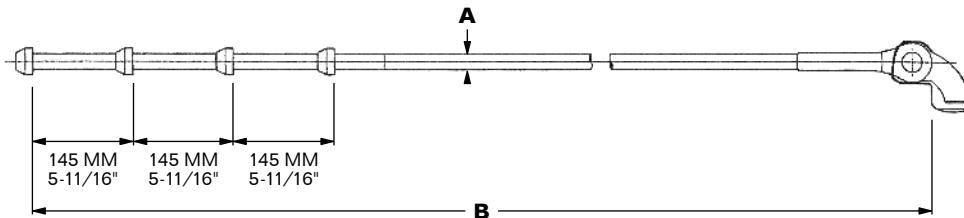
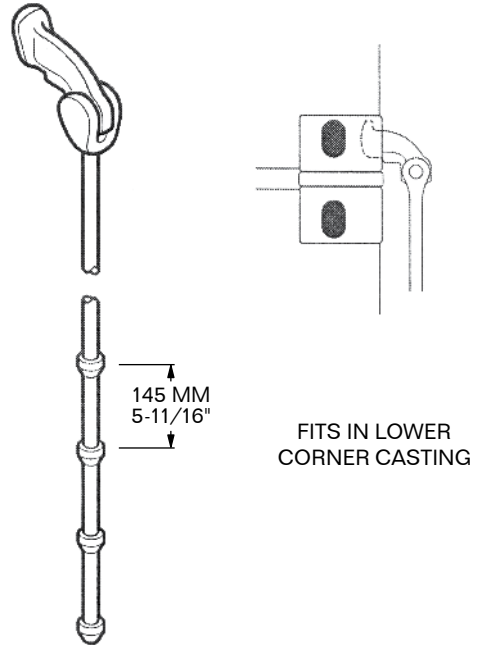
**MODEL 5009-FLX-F**

**HINGED HEAD**



**MODEL 5009-FLX-E**

**HINGED, ELONGATED HEAD**



MODEL	MIN. B.L. (M. TON)	A	B	WEIGHT
<b>5009-FLX-F-50-4400</b>	50	Ø25 MM / O.D. 1"	4,400 MM / 173-1/4"	19.8 Kg / 43.7 LBS
<b>5009-FLX-E-50-4725</b>	50	Ø25 MM / O.D. 1"	4,725 MM / 186"	21.8 Kg / 48 LBS

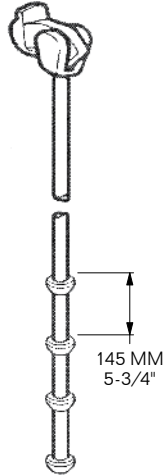
**SPECIAL ORDER ONLY**

**COUNTER PARTS:** TURNBUCKLES TYPE FLX

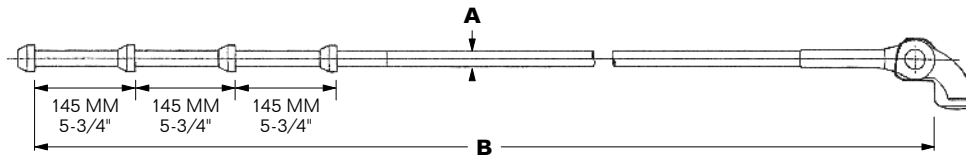
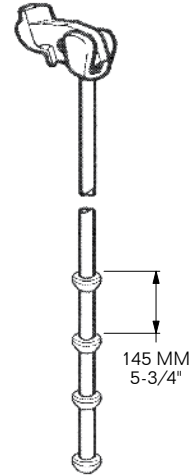
**MATERIAL:** HIGH-TENSILE STEEL  
**FINISH:** HOT-DIP GALVANIZED (HDG)  
**CLASS APPROVED**

**5009**

**MODEL 5009-FLX-RD**  
HINGED HEAD



**MODEL 5009-FLX-D**  
HINGED, ELONGATED HEAD



5009

MODEL	MIN. B.S. (M. Ton)	A	B	WEIGHT
5009-FLX-RD-50-2250	50	Ø25 MM / O.D. 1"	2,250 MM / 88-1/2"	12 Kg / 26.4 LBS
5009-FLX-RD-50-4450	50	Ø25 MM / O.D. 1"	4,450 MM / 175-3/16"	19.4 Kg / 42.7 LBS
5009-FLX-RD-50-4550	50	Ø25 MM / O.D. 1"	4,550 MM / 179-1/8"	19.8 Kg / 43.7 LBS
5009-FLX-RD-50-4725	50	Ø25 MM / O.D. 1"	4,725 MM / 186"	20.6 Kg / 45.4 LBS
5009-FLX-RD-50-5100	50	Ø25 MM / O.D. 1"	5,100 MM / 200-13/16"	22.4 Kg / 49.4 LBS
5009-FLX-RD-50-5175	50	Ø25 MM / O.D. 1"	5,175 MM / 203-11/16"	22.7 Kg / 50 LBS

**COUNTER PARTS:** TURNBUCKLES TYPE FLX

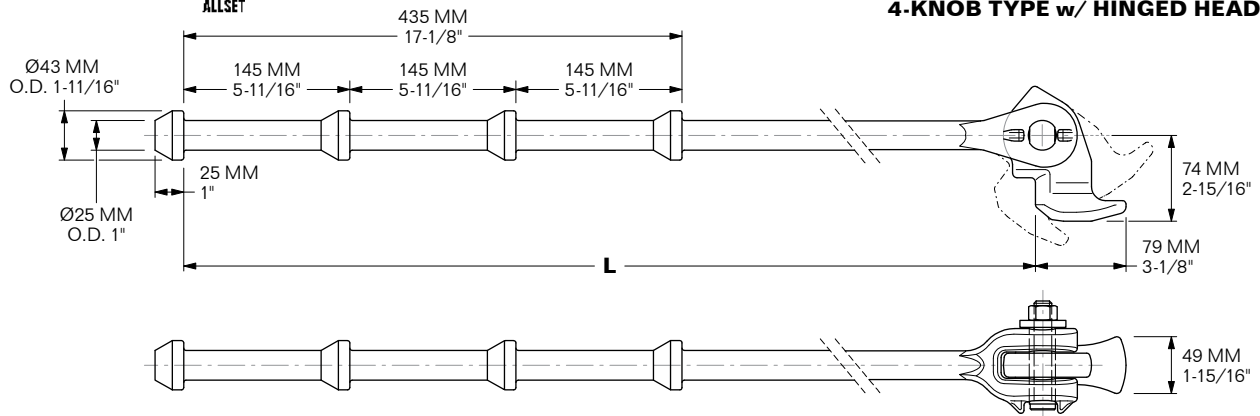
**MATERIAL:** HIGH-TENSILE STEEL  
**FINISH:** HOT-DIP GALVANIZED (HDG) **CLASS APPROVED**





### MODEL 5008-LB-11

4-KNOB TYPE w/ HINGED HEAD



#### SHORT BARS\*

**SPECIAL ORDER ONLY**

MODEL	MIN. B.L. (M. Ton)	L	WEIGHT	REFERENCE #
<b>5008-LB-11-1680</b>	50	1,680 MM / 66"	9.1 Kg / 20 LBS	1032221
<b>5008-LB-11-2200</b>	50	2,240 MM / 86.5"	10.8 Kg / 23.8 LBS	1005795
<b>5008-LB-11-2240</b>	50	2,240 MM / 88.2"	11.3 Kg / 25 LBS	1109311 *Red color code
<b>5008-LB-11-2400</b>	50	2,400 MM / 94.5"	11.8 Kg / 26 LBS	1003813
<b>5008-LB-11-2430</b>	50	2,430 MM / 95.7"	11.9 Kg / 26.3 LBS	1005812
<b>5008-LB-11-2450</b>	50	2,450 MM / 96.5"	12.2 Kg / 26.8 LBS	1005815
<b>5008-LB-11-2475</b>	50	2,475 MM / 97.5"	12.3 Kg / 27.1 LBS	1005775, 1005820
<b>5008-LB-11-2500</b>	50	2,500 MM / 98.4"	12.5 Kg / 27.5 LBS	1005825
<b>5008-LB-11-2530</b>	50	2,530 MM / 99.6"	12.7 Kg / 28 LBS	1003814
<b>5008-LB-11-2550</b>	50	2,550 MM / 100.4"	12.8 Kg / 28.3 LBS	1005830
<b>5008-LB-11-2600</b>	50	2,600 MM / 102.4"	13.2 Kg / 29 LBS	1005835
<b>5008-LB-11-2650</b>	50	2,650 MM / 104.3"	13.2 Kg / 29 LBS	1005838
<b>5008-LB-11-2810</b>	50	2,810 MM / 110.6"	15.7 Kg / 34.6 LBS	1005843

#### LONG BARS\*

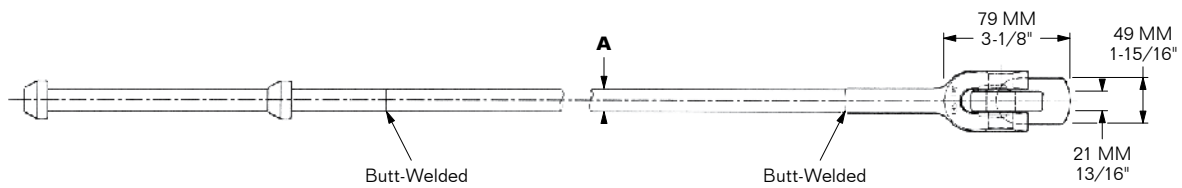
MODEL	MIN. B.L. (M. Ton)	L	WEIGHT	REFERENCE #
<b>5008-LB-11-3700</b>	50	3,700 MM / 145.7"	17.2 Kg / 38 LBS	1102136, 400003770
<b>5008-LB-11-4300</b>	50	4,300 MM / 169.3"	18 Kg / 39.6 LBS	1259613
<b>5008-LB-11-4810</b>	50	4,810 MM / 189.4"	21.8 Kg / 48.1 LBS	400000494
<b>5008-LB-11-4850</b>	50	4,850 MM / 191"	21.8 Kg / 48.1 LBS	1017528
<b>5008-LB-11-4900</b>	50	4,900 MM / 192.9"	22.2 Kg / 48.9 LBS	1005886, 400000496
<b>5008-LB-11-4950</b>	50	4,950 MM / 194.9"	22 Kg / 48.4 LBS	1004083
<b>5008-LB-11-5000</b>	50	5,000 MM / 197"	23.1 Kg / 51 LBS	1005895
<b>5008-LB-11-5180</b>	50	5,180 MM / 203.9"	24.5 Kg / 54 LBS	1005909
<b>5008-LB-11-5200</b>	50	5,200 MM / 204.7"	24.3 Kg / 53.6 LBS	1005910
<b>5008-LB-11-5400</b>	50	5,400 MM / 214.6"	23.7 Kg / 52.1 LBS	1093603
<b>5008-LB-11-5500</b>	50	5,500 MM / 216.5"	24.9 Kg / 55 LBS	1221548

\*Additional lengths are available upon request via special order.

**MATERIAL:** HIGH-TENSILE STEEL **FINISH:** HOT-DIP GALVANIZED (HDG) **CLASS APPROVED**



**MODEL 5009-FLX-RD-42**



**5009**

MODEL	KNOBS	MIN. B.L. (M. Ton)	A	B	WEIGHT
<b>5009-FLX-RD-42-2250</b>	4	42	Ø22 MM / O.D. 7/8"	2,250 MM / 88-9/16"	11.3 Kg / 25 LBS
<b>5009-FLX-RD-42-2500</b>	4	42	Ø22 MM / O.D. 7/8"	2,500 MM / 98-7/16"	12.7 Kg / 28 LBS
<b>5009-FLX-RD-42-2510</b>	2	42	Ø22 MM / O.D. 7/8"	2,510 MM / 98-13/16"	10.8 Kg / 23.8 LBS
<b>5009-FLX-RD-42-4500</b>	4	42	Ø22 MM / O.D. 7/8"	4,500 MM / 177-3/16"	15.9 Kg / 35 LBS

**MATERIAL: STEEL**  
**FINISH: HOT-DIP GALVANIZED (HDG)**



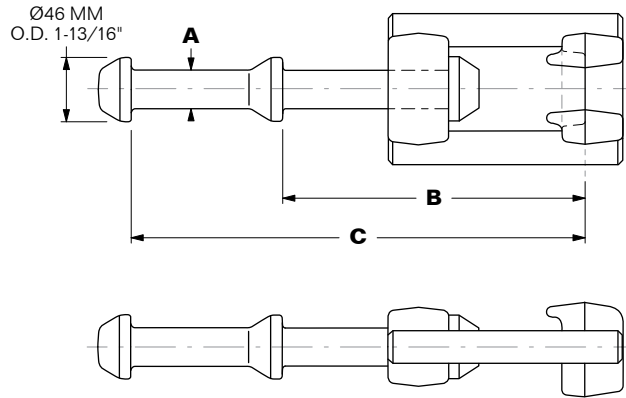
**SPECIAL ORDER ONLY**

**MODEL 5009-FLX2-EP-50-300-1130859**

**SPECIAL ORDER ONLY**

**MODEL 5009-FLX2-EP-50-310-1130863**

**2 KNOB**



**MIN. B.L. TENSION: 50 M. TON**

**MATERIAL: STEEL**  
**FINISH: HOT-DIP GALVANIZED (HDG)**

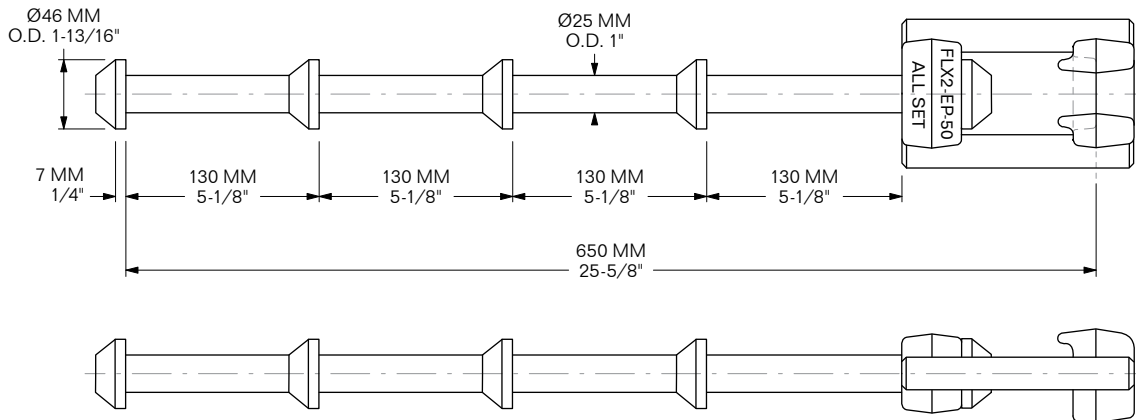
MODEL	A	B	C	WEIGHT
<b>5009-FLX2-EP-50-300-1130859</b>	Ø25 MM / O.D. 1"	200 MM / 7-7/8"	300 MM / 11-7/8"	3.6 Kg / 8 LBS
<b>5009-FLX2-EP-50-310-1130863</b>	Ø25 MM / O.D. 1"	200 MM / 7-7/8"	310 MM / 12-3/16"	3.7 Kg / 8.2 LBS

**5009**



**MODEL 5009-FLX2-EP-50-650-1130860**

**4 KNOB**

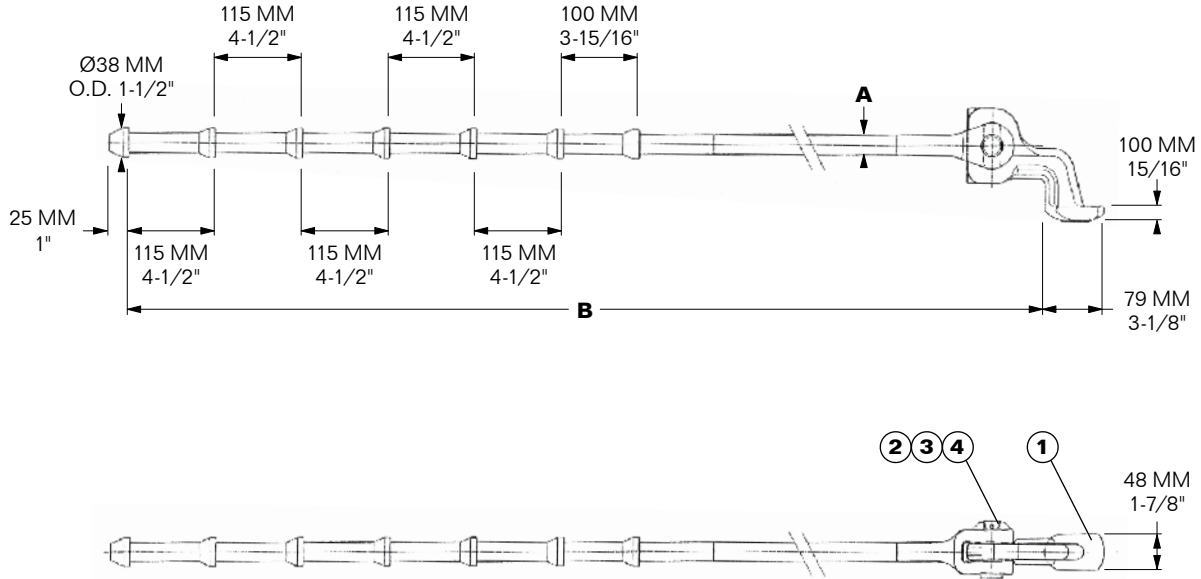


**MIN. B.L. TENSION: 50 M. TON**

**MATERIAL: STEEL**  
**FINISH: HOT-DIP GALVANIZED (HDG)**  
**WEIGHT: 7.1 Kg / 15.7 LBS**



**7-KNOB TYPE w/ HINGED HEAD**



**5009**

MODEL	APM #	MIN. B.L. (M. Ton)	A	B	WEIGHT
<b>5008-LB-2225-K7</b>	312574	48	Ø25 MM / O.D. 1"	2,225 MM / 87-5/8"	12.2 Kg / 28.9 LBS
<b>5008-LB-2625-K7</b>	312573	48	Ø25 MM / O.D. 1"	2,625 MM / 103-5/16"	13.8 Kg / 30.4 LBS

**SPECIAL ORDER ONLY**

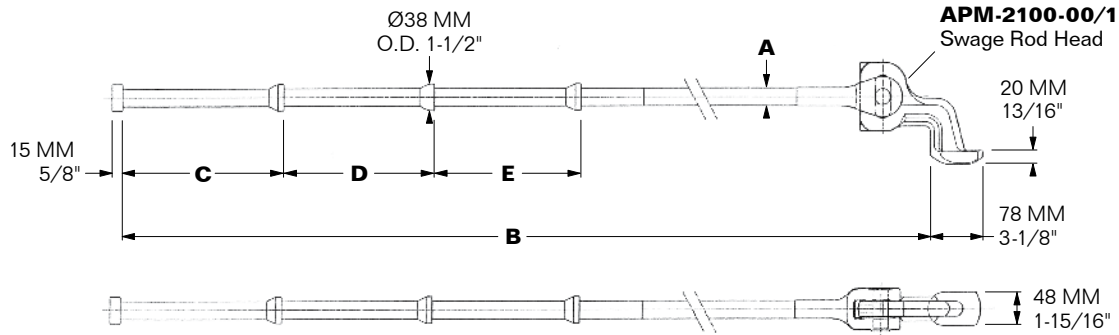
ITEM	QTY	MODEL	APM #	DESCRIPTION	WEIGHT
1	1	<b>5008-APM-2100-00/1</b>	308142	Head for Lashing Rod, HDG	2.13 Kg / 4.7 LBS
2	1	<b>5008-APM-2100-00/5</b>	308144	Pin for Head & Dbl. Hook Jaw	0.25 Kg / 0.55 LBS
3	1	<b>5008-APM-2100-00/6</b>	308145/1	Spring Pin*, 6 x 28 MM, SS	0.07 Kg / 0.15 LBS
4	1	<b>5008-APM-2100-00/7</b>	308145/2	Spring Pin*, 3.5 x 28 MM, SS	0.02 Kg / 0.05 LBS
<b>ALSO AVAILABLE: 5008-APM-2100-00/6-7</b>			308145	Spring Pin* Kit (3.5 & 6 MM)	0.09 Kg / 0.2 LBS

**\*NOTE:** The 3.5 MM Spring Pin fits inside the 6 MM Spring Pin.

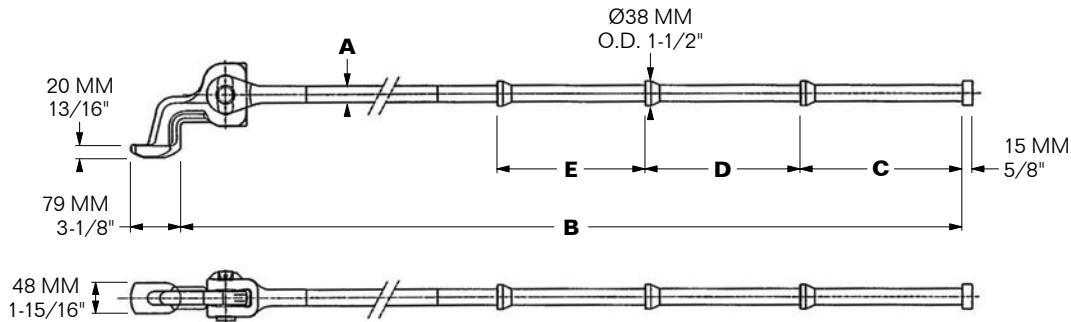
**MATERIAL:** STEEL  
**FINISH:** HOT-DIP GALVANIZED (HDG)



#### 4-KNOB TYPE w/ HINGED HEAD



MODEL	APM #	MIN. B.L. (M. Ton)	A	B	C	D	E	WEIGHT
<b>5009-LB-2205-K4S</b> <b>SPECIAL ORDER ONLY</b>	357398	48	Ø25 MM O.D. 1"	2,205 MM 86-13/16"	235 MM 9-1/4"	220 MM 8-11/16"	215 MM 8-7/16"	11.5 Kg 25.4 LBS
<b>5009-LB-2570-K4S</b> <b>SPECIAL ORDER ONLY</b>	357389/355303	48	Ø25 MM O.D. 1"	2,570 MM 101-3/16"	235 MM 9-1/4"	220 MM 8-11/16"	215 MM 8-7/16"	13.3 Kg 29.3 LBS
<b>5009-LB-2890-K4S</b>	357379/341326	48	Ø25 MM O.D. 1"	2,890 MM 113-13/16"	240 MM 9-7/16"	230 MM 9-1/16"	215 MM 8-7/16"	14.5 Kg 32 LBS
<b>5009-LB-3072-K4S</b> <b>SPECIAL ORDER ONLY</b>	357384/342418	48	Ø25 MM O.D. 1"	3,072 MM 120-15/16"	250 MM 9-13/16"	240 MM 9-7/16"	230 MM 9-1/16"	15.1 Kg 33.3 LBS
<b>5009-LB-3200-K4S</b> <b>SPECIAL ORDER ONLY</b>		48	Ø25 MM O.D. 1"	3,200 MM 126"	210 MM 8-1/4"	210 MM 8-1/4"	200 MM 7-7/8"	15.7 Kg 34.6 LBS



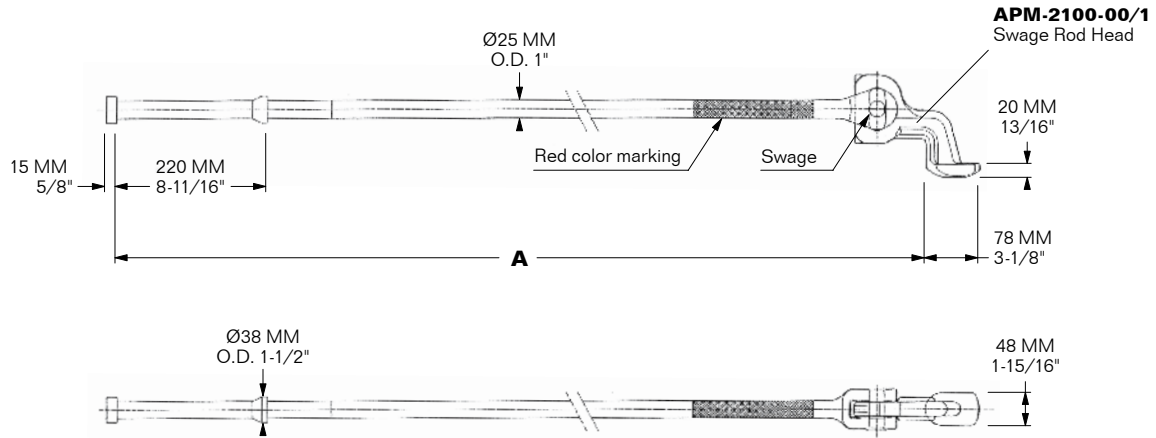
MODEL	APM #	MIN. B.L. (M. Ton)	A	B	C	D	E	WEIGHT
<b>5009-LB-3072-K4S</b> <b>SPECIAL ORDER ONLY</b>	342418, 357384	48	Ø25 MM O.D. 1"	3,072 MM 120-15/16"	250 MM 9-13/16"	240 MM 9-7/16"	230 MM 9-1/16"	15.1 Kg 33.3 LBS
<b>5009-LB-3340-K4</b> <b>SPECIAL ORDER ONLY</b>	341327	48	Ø25 MM O.D. 1"	3,340 MM 131-1/2"	250 MM 9-13/16"	240 MM 9-7/16"	230 MM 9-1/16"	16.3 Kg 35.9 LBS

**MATERIAL: STEEL**  
**FINISH: HOT-DIP GALVANIZED (HDG)**

5009



#### 2-KNOB TYPE w/ HINGED HEAD

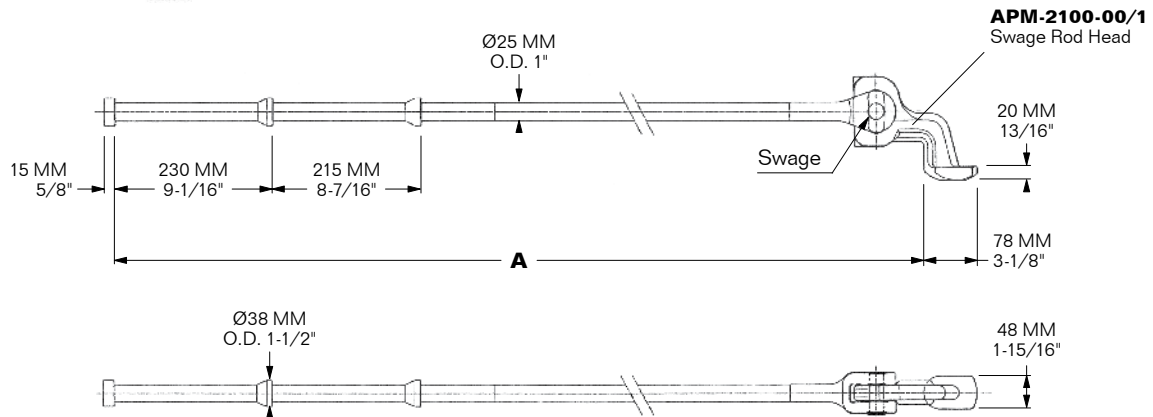


MODEL	APM #	MIN. B.L. (M. Ton)	A	WEIGHT
<b>5009-LB-2085-K2S</b> <b>SPECIAL ORDER ONLY</b>	357388/355284	48	2,085 MM / 82-1/8"	11 Kg / 24.3 LBS

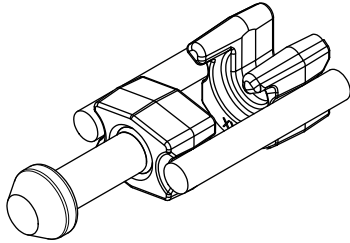
5009



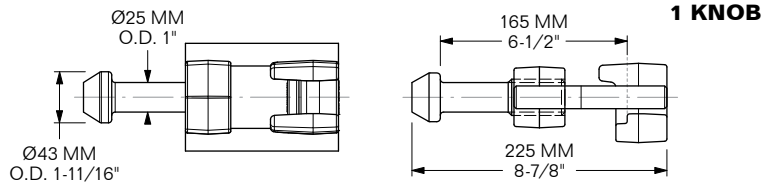
#### 3-KNOB TYPE w/ HINGED HEAD



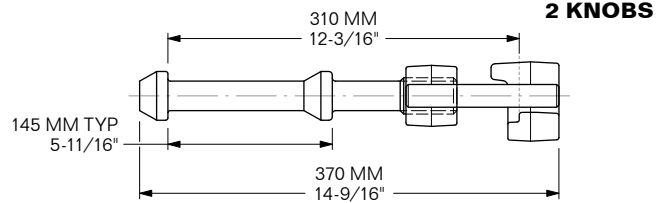
MODEL	APM #	MIN. B.L. (M. Ton)	A	WEIGHT
<b>5009-LB-2520-K3S</b>	360779/342417	48	2,520 MM / 99-1/4"	13.1 Kg / 28.9 LBS
<b>5009-LB-2650-K3S</b> <b>SPECIAL ORDER ONLY</b>	1938583	48	2,650 MM / 104-3/8"	13.7 Kg / 30.2 LBS



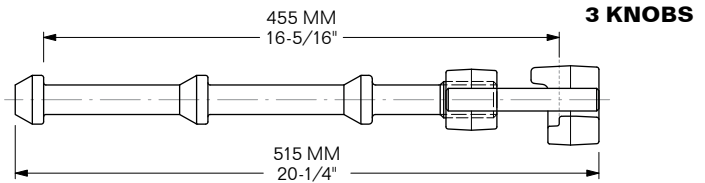
#### MODEL 5009-LB-14-K1-1142925



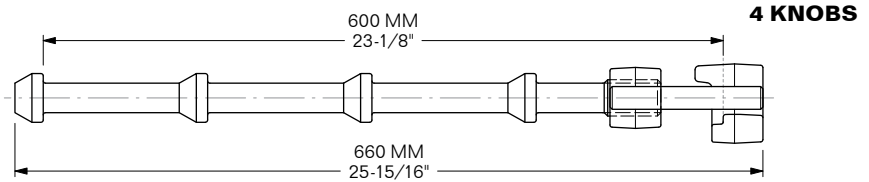
#### SPECIAL ORDER ONLY MODEL 5009-LB-14-K2



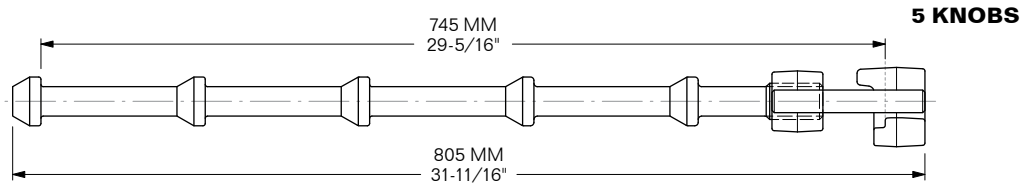
#### SPECIAL ORDER ONLY MODEL 5009-LB-14-K3



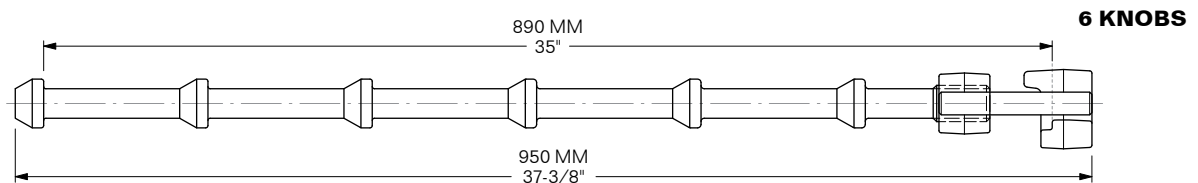
#### SPECIAL ORDER ONLY MODEL 5009-LB-14-K4



#### SPECIAL ORDER ONLY MODEL 5009-LB-14-K5



#### SPECIAL ORDER ONLY MODEL 5009-LB-14-K6



MODEL	WEIGHT	SUB FOR:
5009-LB-14-K1	3.1 Kg / 6.8 LBS	1142925
5009-LB-14-K2	3.8 Kg / 8.4 LBS	1142926
5009-LB-14-K3	4.5 Kg / 9.9 LBS	1142927
5009-LB-14-K4	5.3 Kg / 11.7 LBS	1142928
5009-LB-14-K5	6.3 Kg / 13.9 LBS	1218445
5009-LB-14-K6	6.5 Kg / 14.3 LBS	1218446

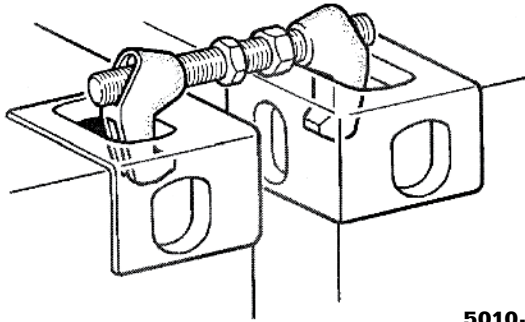
5009

MIN. B.L. TENSION: 50 M. TON

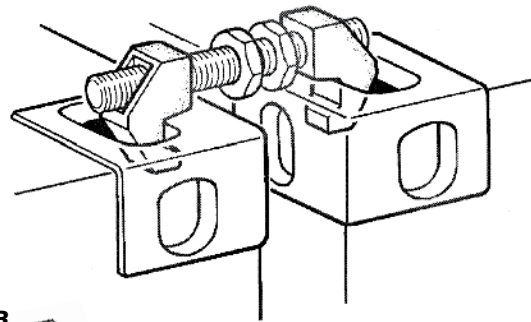
MATERIAL: HIGH-TENSILE STEEL FINISH: HOT-DIP GALVANIZED (HDG)



**5010-C7**



**5010-C7-1**

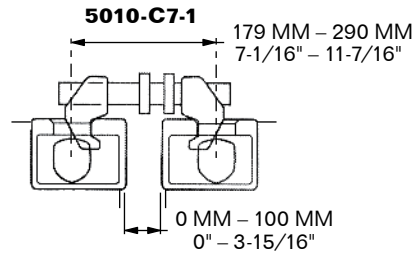
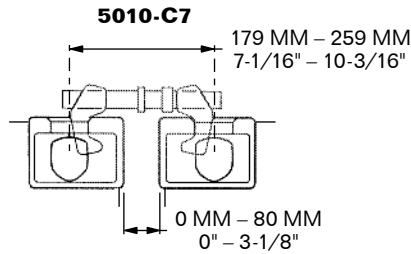


**5010-C7-WR**

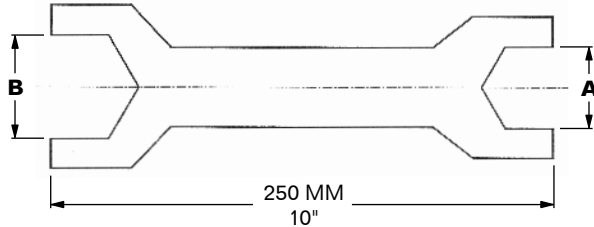


MODEL	TENSION / COMPRESSION MIN. BREAKING LOAD (M. TON)	ADJUSTABLE RANGE (MM)	CONTAINER DISTANCE (MM)	SIZE		WEIGHT
				A	B	
<b>5010-C7</b>	7.0	179 – 259	0 – 80	–	–	3.5 Kg / 7.7 LBS
<b>5010-C7-1</b>	10.0	179 – 290	0 – 100	–	–	4.6 Kg / 10.1 LBS
<b>5010-6951</b>	15.0	104 – 310	0 – 200	–	–	7.40 Kg / 16.3 LBS
<b>5010-C7-WR</b>	–	–	–	M41	M52	0.9 Kg / 1.9 LBS

**5010**



**WRENCH  
5010-C7-WR**

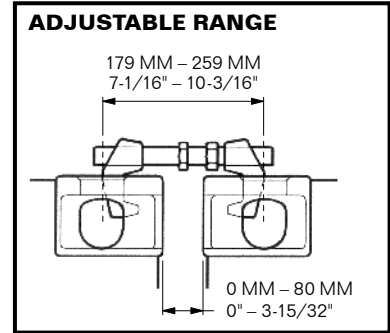
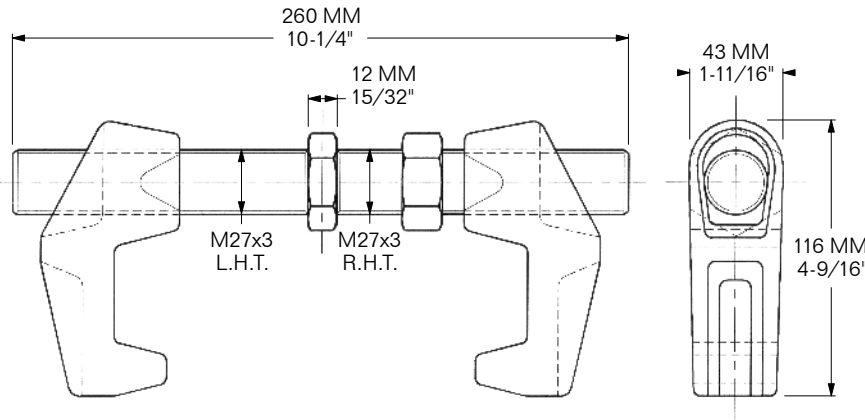


**MATERIAL: FORGED STEEL**  
**FINISH: HOT-DIP GALVANIZED (HDG)**  
**CLASS-APPROVED**





**MODEL 5010-C7**

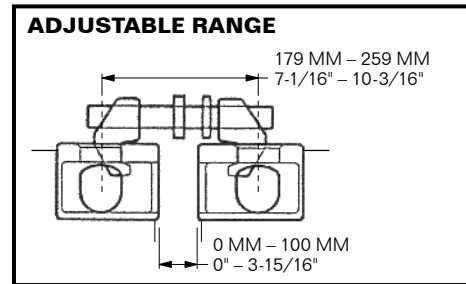
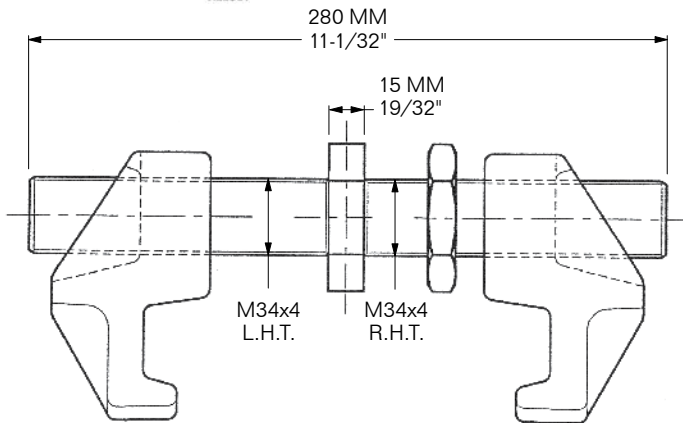


**WRENCH:** USE 5010-C7-WR **MIN. B.L. TENSION:** 7 M. TON  
**MATERIAL:** STEEL **FINISH:** HOT-DIP GALVANIZED (HDG) **WEIGHT:** 2.72 Kg / 6.75 LBS

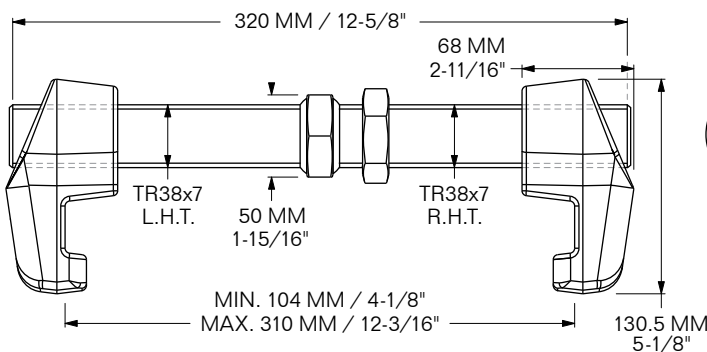


**MODEL 5010-C7-1**

5010



**WRENCH:** USE 5010-C7-WR  
**MIN. B.L. TENSION:** 10 M. TON  
**MATERIAL:** STEEL  
**FINISH:** HOT-DIP GALVANIZED (HDG)  
**WEIGHT:** 3.97 Kg / 8.75 LBS

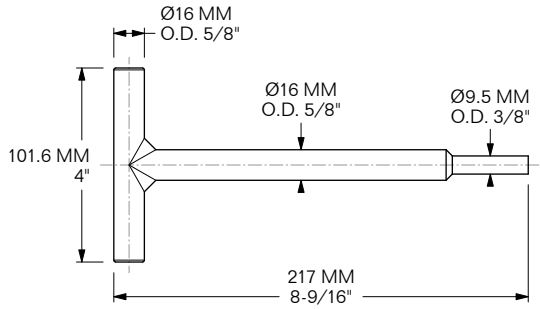


**SPECIAL ORDER ONLY MODEL 5010-6951**

**WRENCH:** USE 5010-C7-WR  
**MIN. B.L. TENSION:** 15 M. TON  
**MATERIAL:** STEEL  
**FINISH:** HOT-DIP GALVANIZED (HDG)  
**WEIGHT:** 7.37 Kg / 16.25 LBS



**MODEL 5010-SEC-4**



**WORKS WITH:** MACGREGOR BRIDGE FITTINGS  
**MATERIAL:** FORGED STEEL  
**FINISH:** HOT-DIP GALVANIZED (HDG)  
**WEIGHT:** 0.95 Kg / 2.09 LBS

**5010**



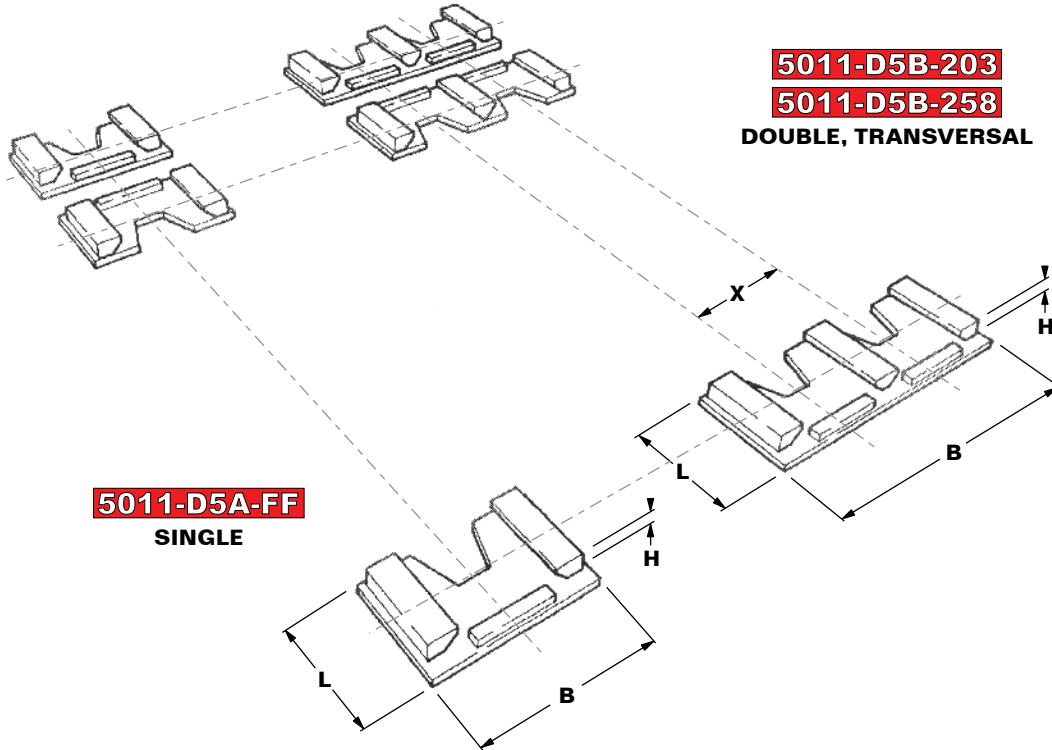


TABLE OF CONTENTS  
LASHING GEAR: FIXED FITTINGS  
**5011-5014**

**PAGE NUMBERS**

<b>5011-1 to -5</b>	U-FRAME SOCKETS
<b>5011-6</b>	DOVETAIL U-FRAME SOCKETS
<b>5011-7 to -37</b>	ISO SOCKETS & APERTURE PLATE
<b>5011-38</b>	COVERS for Deck Sockets
<b>5011-39 to -40</b>	CLOVERLEAF DECK SOCKETS
<b>5011-41 to -43</b>	CLOVERLEAF DECK FITTINGS
<b>5011-44</b>	BREECH BASE SOCKET
<b>5012-1</b>	D-RINGS w/ STRAPS (Marine type)
<b>5012-2</b>	D-RINGS w/ DOVETAIL BASE
<b>5012-3 to -4</b>	D-RINGS (Specialty type)
<b>5012-5 to -9</b>	LASHING EYES
<b>5014-1</b>	SAFETY RAIL (Socket-mounted)





5011

MODEL	TENSION BREAKING LOAD (M. TON)	SHEAR BREAKING LOAD (M. TON)	DIMENSIONS				WEIGHT
			X	L	B	H	
5011-D5A-FF-45 5011-D5A-FF-55	40	42	—	170 MM 6-11/16"	260 MM 10-1/4"	40 MM 1-9/16"	6.2 Kg 13.7 LBS
5011-D5B-203-45 5011-D5B-203-55	40	42	203 MM 8"	170 MM 6-11/16"	463 MM 18-7/32"	40 MM 1-9/16"	10.2 Kg 22.5 LBS
5011-D5B-258-45 5011-D5B-258-55	40	42	258 MM 10-5/32"	170 MM 6-11/16"	518 MM 20-3/8"	40 MM 1-9/16"	13.1 Kg 28.9 LBS

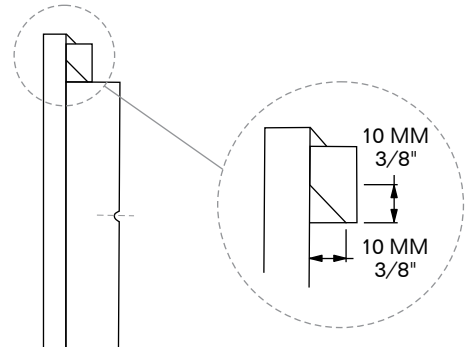
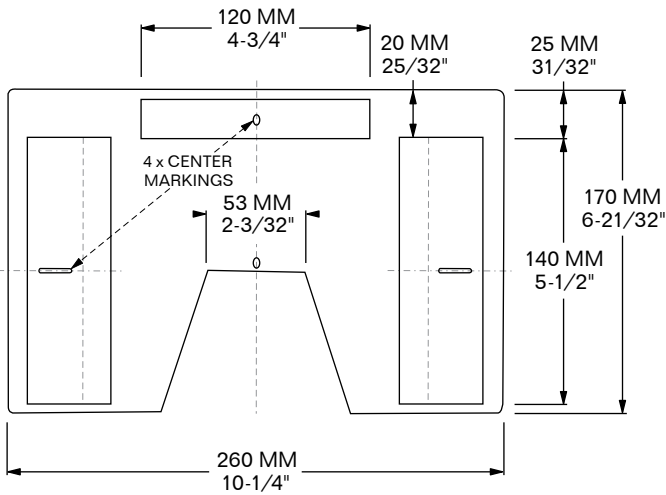
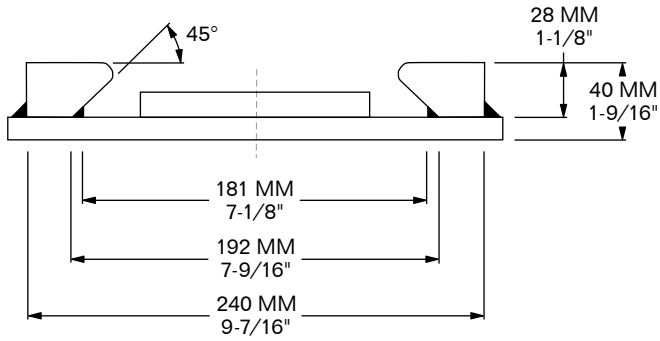
USE WITH: TWISTLOCK MODELS 5005-T4, 5005-T4B, 5005-T5-1 & 5005-T5-2

**MATERIAL:** STEEL, WELDED  
**FINISH:** HOT-DIP GALVANIZED (HDG)  
**CLASS APPROVED**





**MODEL 5011-D5A-FF-45**



**5011**

**MIN. B.L. TENSION: 40 M. TON**  
**MIN. B.L. SHEAR: 42 M. TON**

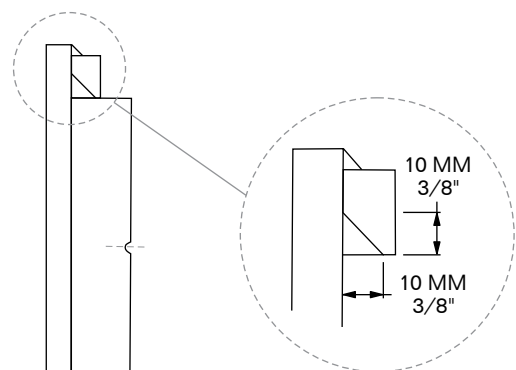
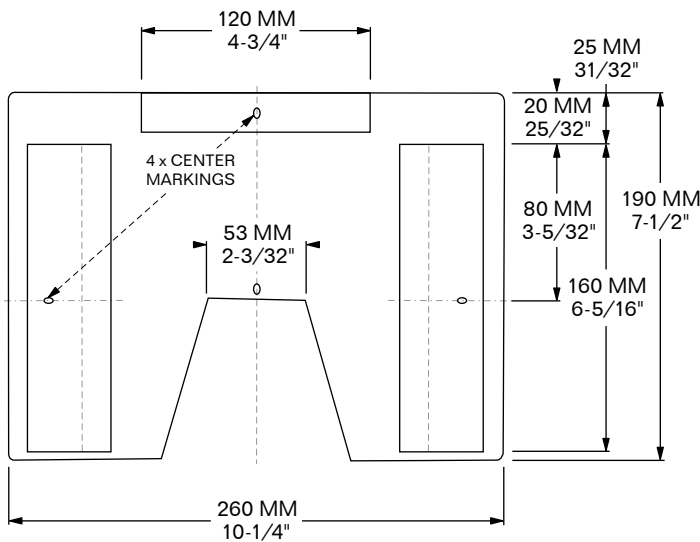
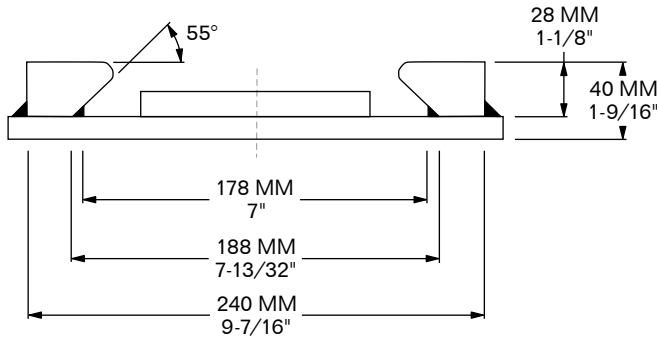
**FINISH: HOT-DIP GALVANIZED (HDG)**  
**WEIGHT: 6.2 Kg / 13.7 LBS**





**MODEL 5011-D5A-FF-55**

**DECK FRAME FOR 55° DOVETAIL TWISTLOCKS**  
w/ 176 MM / 6-15/16" WIDTH AT BASE



**5011**

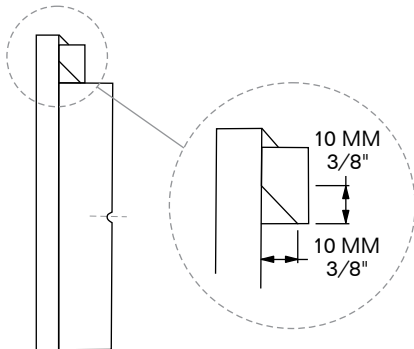
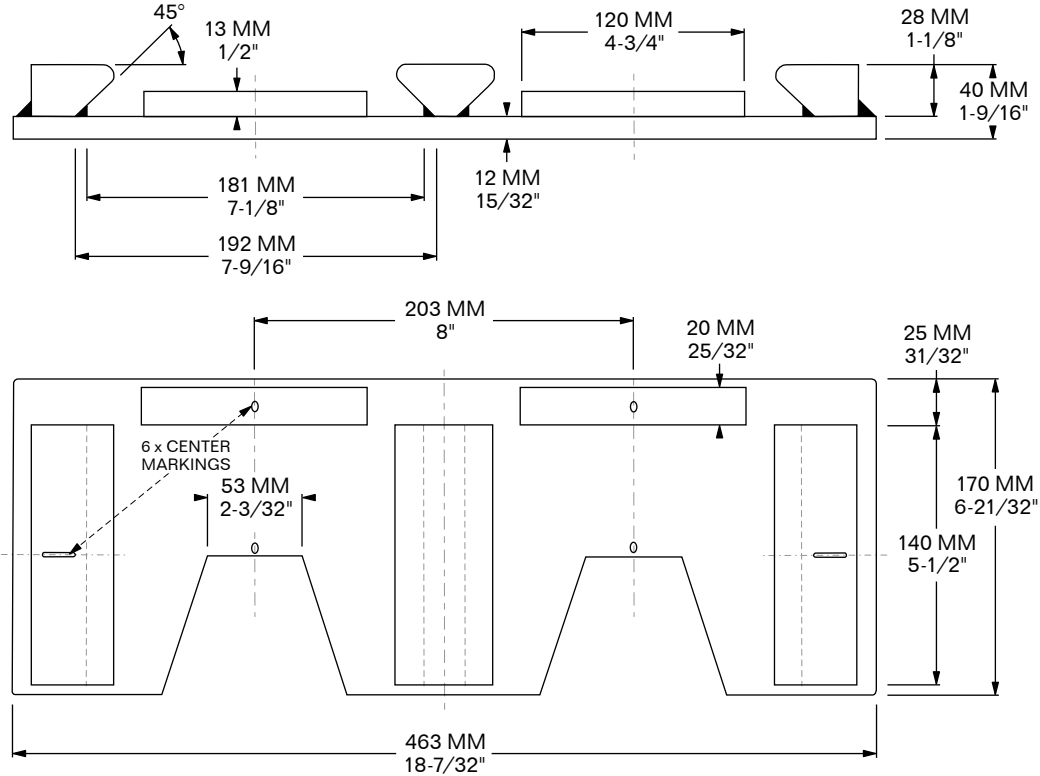
**MIN. B.L. TENSION: 40 M. TON**  
**MIN. B.L. SHEAR: 42 M. TON**

**FINISH: HOT-DIP GALVANIZED (HDG)**  
**WEIGHT: 6.8 Kg / 15 LBS**





**MODEL 5011-D5B-203-45**



**MIN. B.L. TENSION: 40 M. TON**  
**MIN. B.L. SHEAR: 42 M. TON**

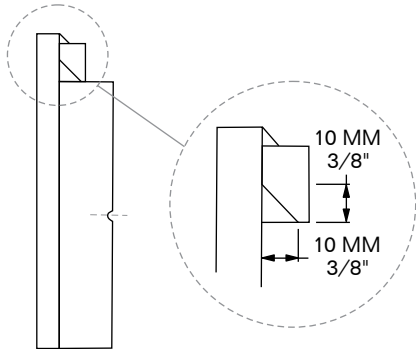
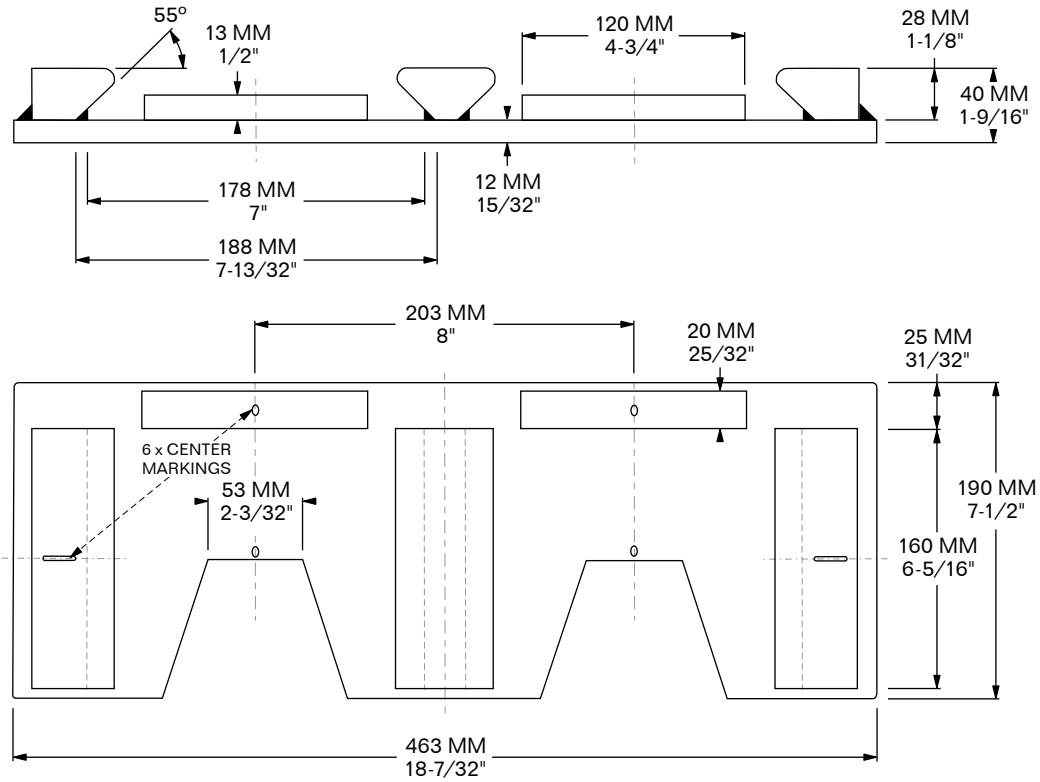
**FINISH: HOT-DIP GALVANIZED (HDG)**  
**WEIGHT: 10.3 Kg / 22.7 LBS**

5011





**MODEL 5011-D5B-203-55**



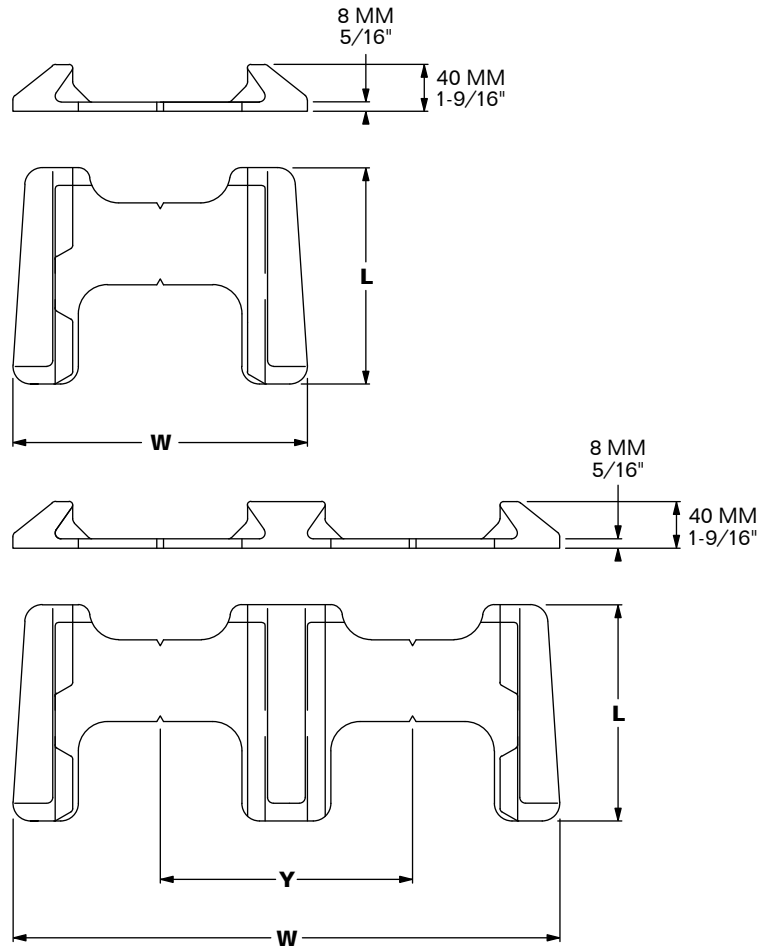
**MIN. B.L. TENSION: 40 M. TON**  
**MIN. B.L. SHEAR: 42 M. TON**

**FINISH: HOT-DIP GALVANIZED (HDG)**  
**WEIGHT: 11.57 Kg / 25.52 LBS**

**5011**





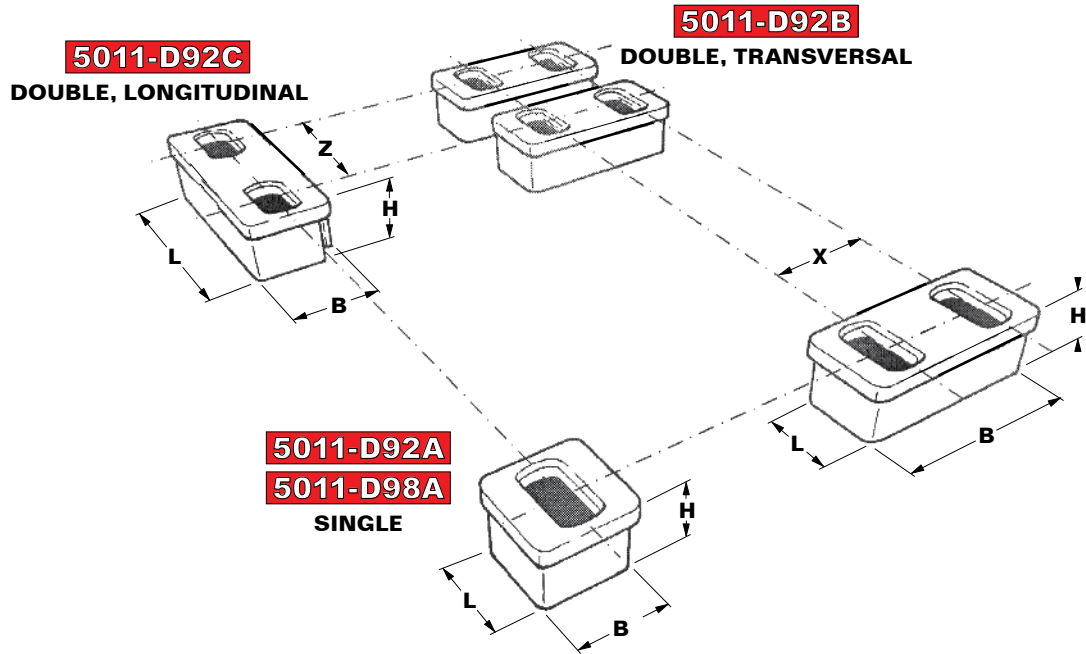


5011

SAP #	DRAWING #	BUI PART #	LENGTH (L)	WIDTH (W)	C/C OF LOCKS (Y)	WEIGHT
1065988	K103440	<b>5011-APT-1S</b>	185 MM 7-9/32"	252 MM 9-15/16"	—	3.9 Kg 8.6 LBS
1066047	K103441	<b>5011-APT-1SQ</b>	235 MM 9-1/4"	252 MM 9-15/16"	—	5.6 Kg 12.3 LBS
1003906	R1800.3110	<b>5011-APT-1-SQ</b>	240 MM 9-7/16"	240 MM 9-7/16"	—	7.4 Kg 16.3 LBS
1066046	—	<b>5011-APT-2AS</b>	185 MM 7-9/32"	455 MM 17-29/32"	203 MM 8"	6.8 Kg 15.0 LBS
1066045	K103543	<b>5011-APT-2BS</b>	185 MM 7-9/32"	468 MM 18-7/16"	216 MM 8-1/2"	8.7 Kg 19.2 LBS
1066044	K103443	<b>5011-APT-2S</b>	185 MM 7-9/32"	510 MM 20-1/16"	258 MM 10-5/32"	10.1 Kg 22.3 LBS
1086987	—	<b>5011-APT-2A/SQ</b>	235 MM 7-9/32"	455 MM 17-29/32"	203 MM 8"	8.8 Kg 19.4 LBS

**MBS TENSION:** 500 kN    **PROOF LOAD SHEAR:** 375 kN    **MATERIAL:** HT CAST STEEL  
**MBS SHEAR:** 420 kN    **PROOF LOAD SHEAR:** 315 kN    **FINISH:** WELDABLE PRIMER





MODEL	TENSION BREAKING LOAD (M. Ton)	SHEAR BREAKING LOAD (M. Ton)	DIMENSIONS					WEIGHT
			X	Z	L	B	H*	
5011-D92A-110-P	50	42	-	-	160 MM 6-5/16"	160 MM 6-5/16"	110 MM 4-5/16"	8.2 Kg 18.1 LBS
5011-D94B-197-110-HDG	50	42	197 MM 7-3/4"	-	357 MM 14-1/16"	180 MM 7-1/16"	110 MM 4-5/16"	17.9 Kg 39.5 LBS
5011-D92B-203-110-P	50	42	203 MM 8"	-	160 MM 6-5/16"	363 MM 14-5/16"	110 MM 4-5/16"	16 Kg 35.3 LBS
5011-D92B-216-110-P	50	42	216 MM 8-1/2"	-	160 MM 6-5/16"	376 MM 14-13/16"	110 MM 4-5/16"	16.1 Kg 35.5 LBS
5011-D92B-234-110-HDG	50	42	234 MM 9-1/4"	-	394 MM 15-1/2"	180 MM 7-3/32"	110 MM 4-5/16"	17.9 Kg 39.5 LBS
5011-D92B-258-110-P	50	42	258 MM 10-3/16"	-	160 MM 6-5/16"	418 MM 16-7/16"	110 MM 4-5/16"	16.7 Kg 36.8 LBS
5011-D92C-279-110-P	50	42	-	279 MM 11"	439 MM 17-9/32"	160 MM 6-5/16"	110 MM 4-5/16"	17 Kg 37.5 LBS

\*OTHER HEIGHTS AVAILABLE UPON REQUEST

USE WITH: TWISTLOCKS: MANUAL, SEMI-AUTOMATIC OR MIDLOCKS

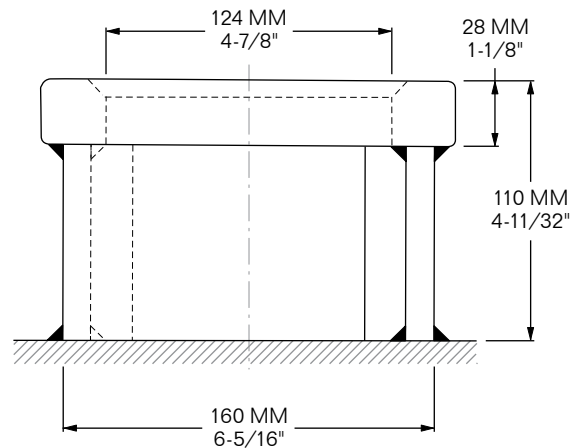
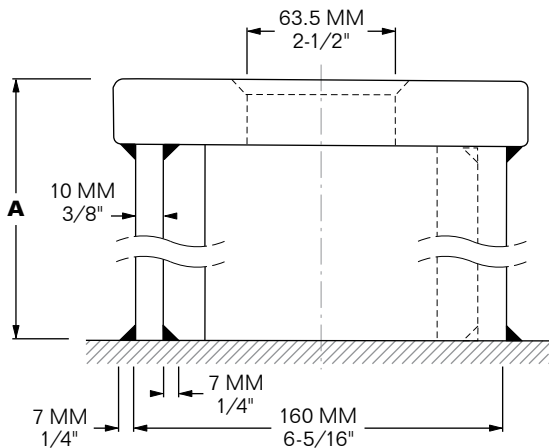
**MATERIAL:** STEEL, WELDED  
**FINISH:** WELDABLE SHOP PRIMER (OTHER FINISH UPON REQUEST)  
**CLASS APPROVED**

5011



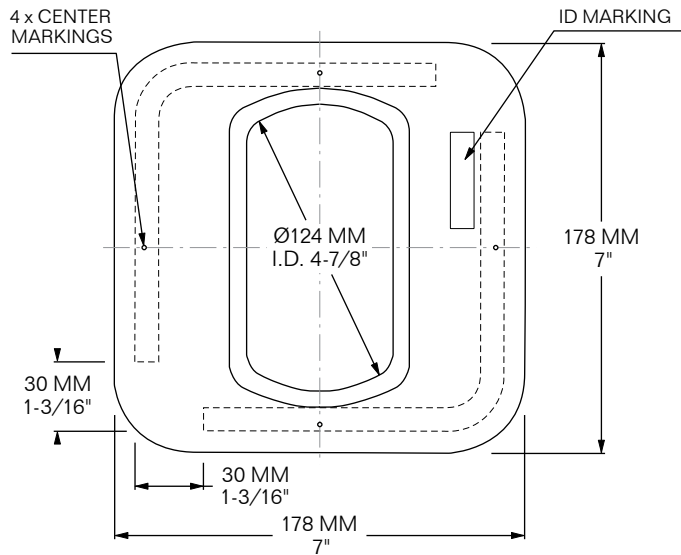


- SPECIAL ORDER ONLY** MODEL 5011-D92A-60-P
- SPECIAL ORDER ONLY** MODEL 5011-D92A-110-P
- SPECIAL ORDER ONLY** MODEL 5011-D92A-110-HDG
- SPECIAL ORDER ONLY** MODEL 5011-D92A-120-P
- SPECIAL ORDER ONLY** MODEL 5011-D92A-130-P
- SPECIAL ORDER ONLY** MODEL 5011-D92A-140-P
- SPECIAL ORDER ONLY** MODEL 5011-D92A-150-P



**MODEL 5011-D92A-110 SHOWN**

MODEL	A	WEIGHT
5011-D92A-60-P	60 MM 2-3/8"	6.03 Kg 13.3 LBS
5011-D92A-110-HDG	110 MM 4-11/32"	9 Kg 19.84 LBS
5011-D92A-110-P	110 MM 4-11/32"	10.48 Kg 23.1 LBS
5011-D92A-120-P	120 MM 4-23/32"	10.55 Kg 23.26 LBS
5011-D92A-130-P	130 MM 5-1/8"	10.63 Kg 23.43 LBS
5011-D92A-140-P	140 MM 5-1/2"	10.7 Kg 23.59 LBS
5011-D92A-150-P	150 MM 5-29/32"	10.77 Kg 23.75 LBS



**MIN. B.L. TENSION:** 50 M. TON  
**MIN. B.L. SHEAR:** 42 M. TON  
**MIN. B.L. COMPRESSION:** 203 M. TON

**5011-110-P SUB FOR:** K-1530-124  
**MATERIAL:** STEEL **FINISH:** PRIMER (P),  
HOT-DIP GALVANIZED (HDG)

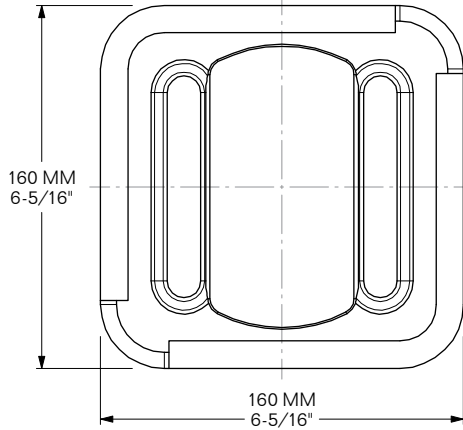
5011





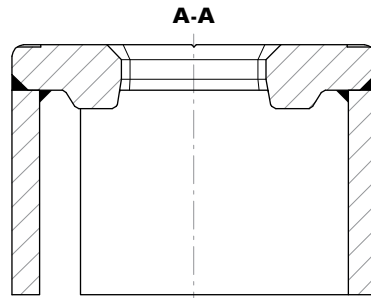
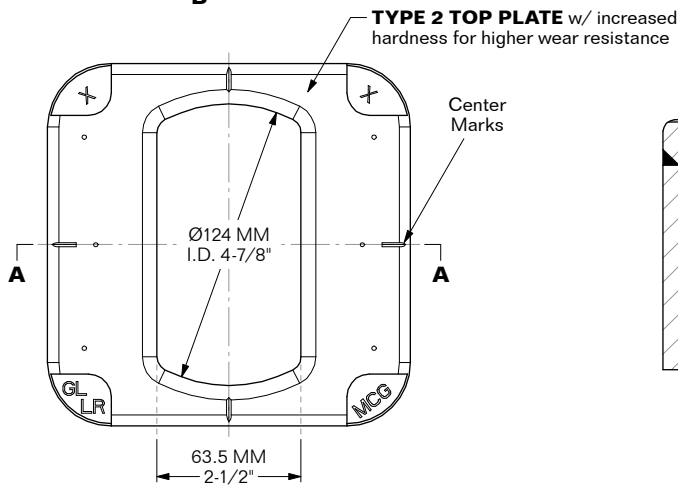
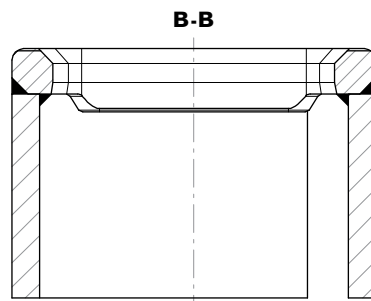
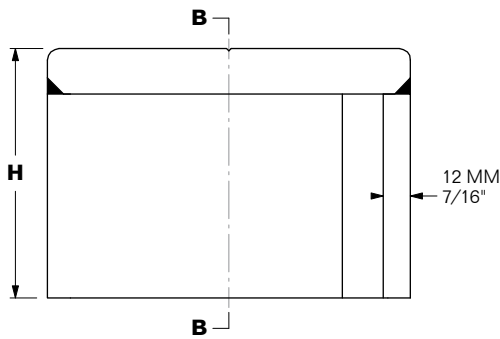
**MODEL 5011-TF-11/SP12-2-XXX**

**TWISTLOCK FOUNDATIONS** w/ Type 2 Top Plates  
Side plate 12 mm; see table below  
for details on all available models:



MODEL	H (Height)	FINISH	WEIGHT
5011-TF-11/SP12-2-70-P*	70 MM / 2-3/4"	Primer	4.3 Kg / 9.5 LBS
5011-TF-11/SP12-2-80-P*	80 MM / 3-1/8"	Primer	4.9 Kg / 10.9 LBS
5011-TF-11/SP12-2-90-P*	90 MM / 3-9/16"	Primer	5.6 Kg / 12.3 LBS
5011-TF-11/SP12-2-100-P*	100 MM / 3-15/16"	Primer	6.2 Kg / 13.6 LBS
5011-TF-11/SP12-2-110-P	110 MM / 4-5/16"	Primer	6.8 Kg / 15 LBS
5011-TF-11/SP12-2-110-HDG	110 MM / 4-5/16"	HDG	6.8 Kg / 15 LBS
5011-TF-11/SP12-2-120-P*	120 MM / 4-3/4"	Primer	7.4 Kg / 16.4 LBS
5011-TF-11/SP12-2-130-P*	130 MM / 5-1/8"	Primer	8 Kg / 17.7 LBS
5011-TF-11/SP12-2-140-P	140 MM / 5-1/2"	Primer	8.7 Kg / 19.1 LBS
5011-TF-11/SP12-2-150-P*	150 MM / 5-15/16"	Primer	9.3 Kg / 20.5 LBS
5011-TF-11/SP12-2-160-P*	160 MM / 6-5/16"	Primer	9.9 Kg / 21.8 LBS

\* **SPECIAL ORDER ONLY**



**MIN. B.L. TENSION: 50 M. TON**  
**MIN. B.L. SHEAR: 42 M. TON**  
**MIN. B.L. COMPRESSION: 200 M. TON**

**DRAWING: K102795 MATERIAL: STEEL**  
**CLASS APPROVED**

**5011**



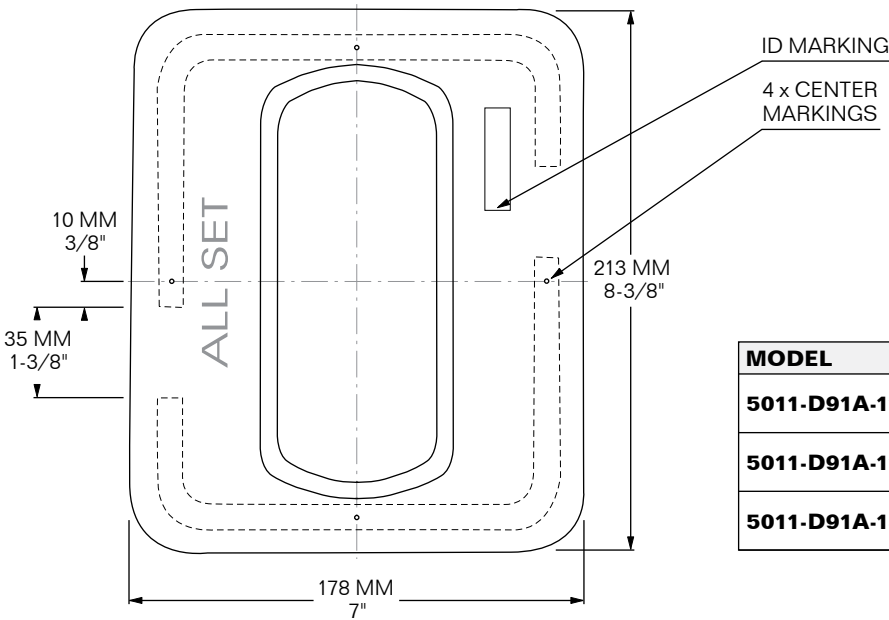
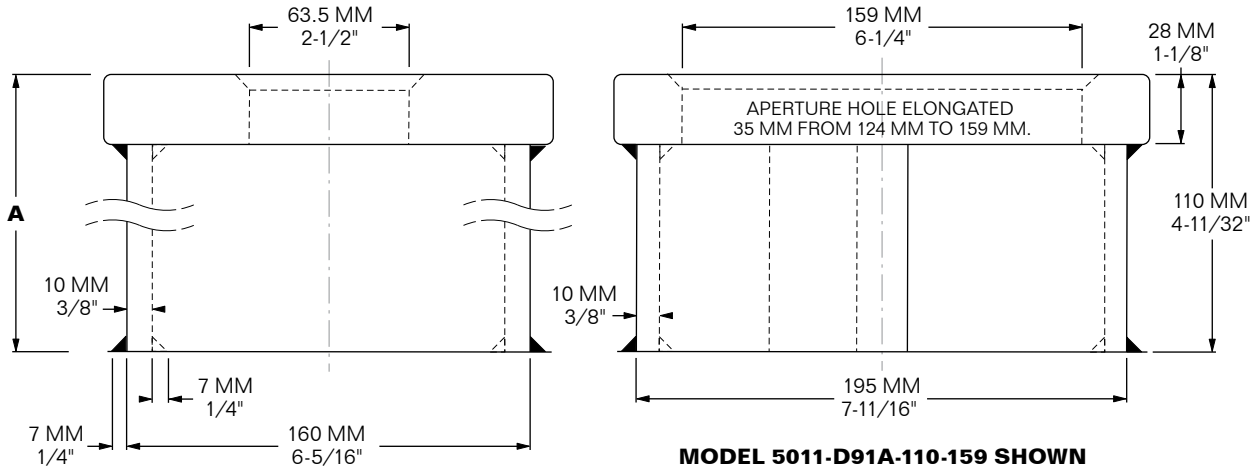


**SPECIAL ORDER ONLY**

**MODEL 5011-D91A-110-159-P**

**MODEL 5011-D91A-110-224-P**

**MODEL 5011-D91A-150-159-P**



MODEL	A	WEIGHT
<b>5011-D91A-110-159-P</b>	110 MM 4-11/32"	10 Kg 22.05 LBS
<b>5011-D91A-110-224-P</b>	110 MM 4-11/32"	12.29 Kg 27.1 LBS
<b>5011-D91A-150-159-P</b>	150 MM 5-29/32"	9.98 Kg 22 LBS

**MIN. B.L. TENSION: 50 M. TON**  
**MIN. B.L. SHEAR: 42 M. TON**  
**MIN. B.L. COMPRESSION: 203 M. TON**

**SUB FOR: AH-K-1530-159**  
**MATERIAL: STEEL**  
**FINISH: PRIMER**

**5011**

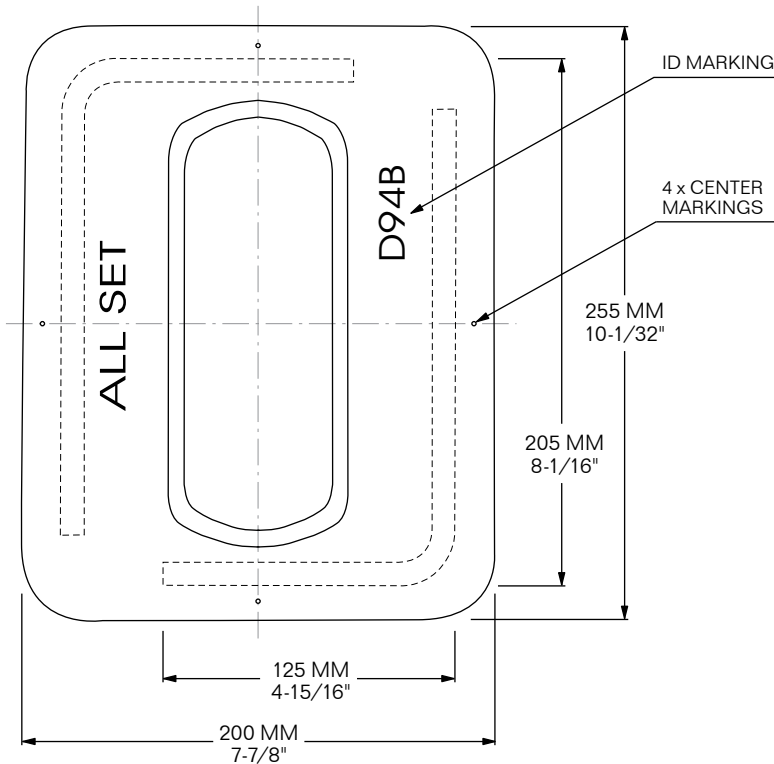
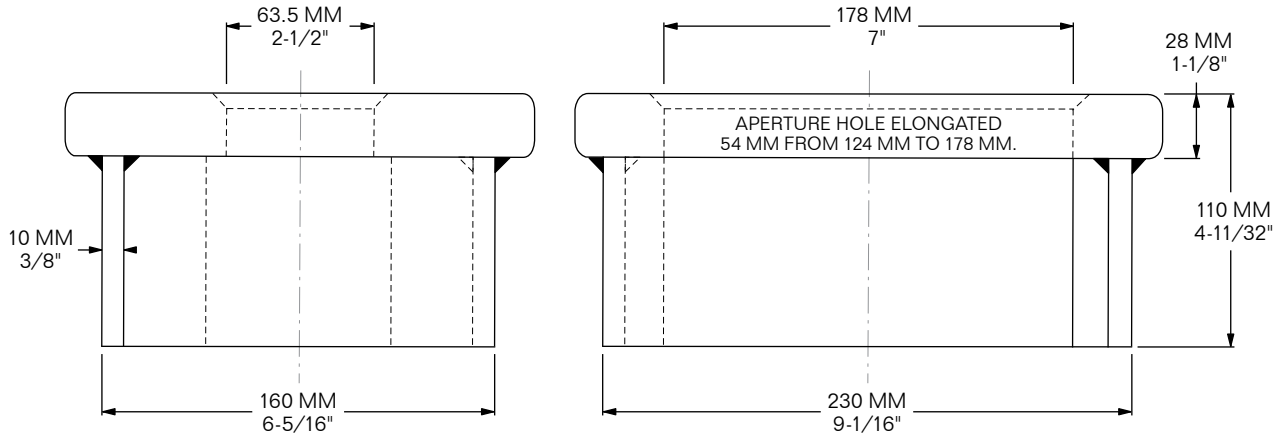




**SPECIAL ORDER ONLY**

**MODEL 5011-D94B-110-178-P**

**MODEL 5011-D94B-110-178-HDG**



**MIN. B.L. TENSION: 50 M. TON**  
**MIN. B.L. SHEAR: 42 M. TON**  
**MIN. B.L. COMPRESSION: 203 M. TON**

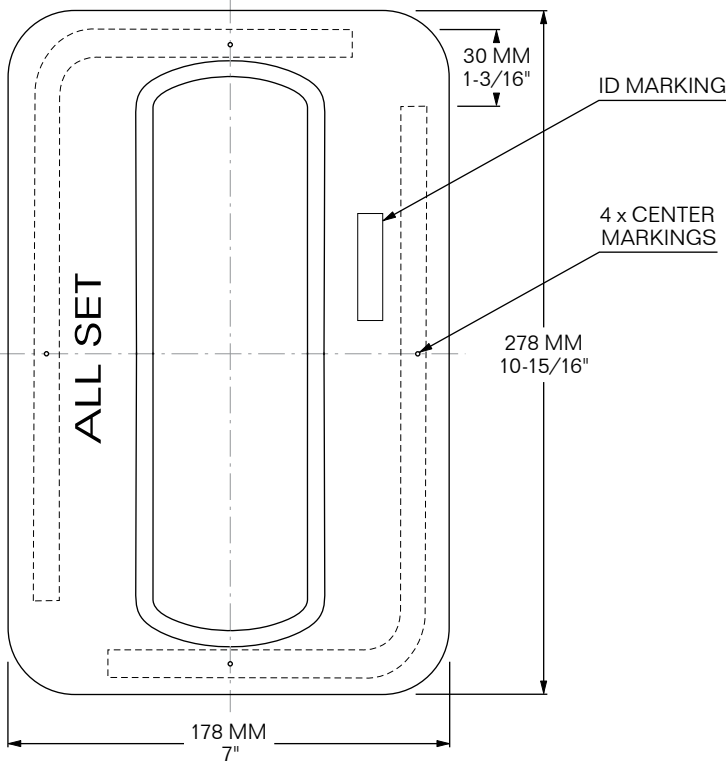
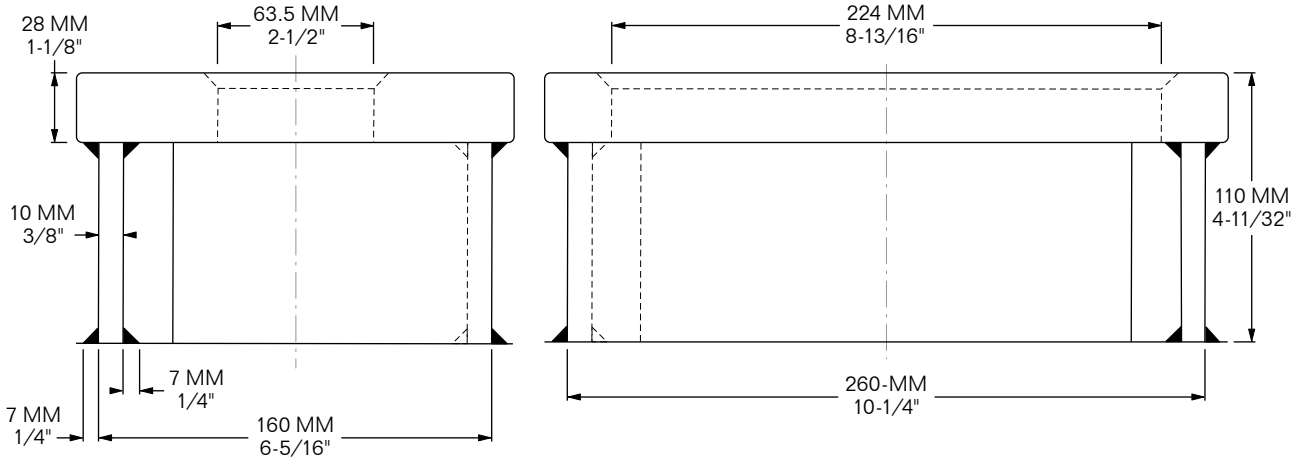
**MATERIAL: STEEL**  
**WEIGHT: 13.15 Kg / 29 LBS**

**5011**





**MODEL 5011-D91A-110-224-P**



APERTURE HOLE ELONGATED  
100 MM FROM 124 MM TO 224 MM.

**MIN. B.L. TENSION: 50 M. TON**  
**MIN. B.L. SHEAR: 42 M. TON**  
**MIN. B.L. COMPRESSION: 203 M. TON**

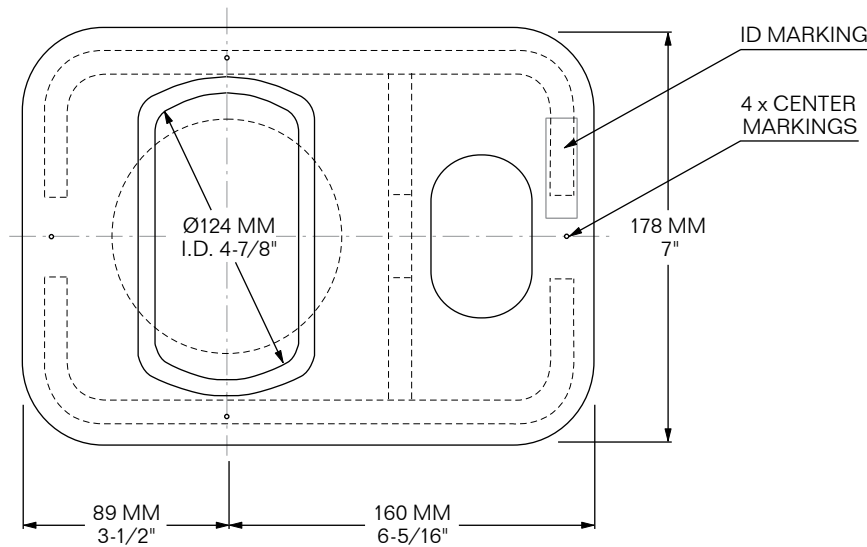
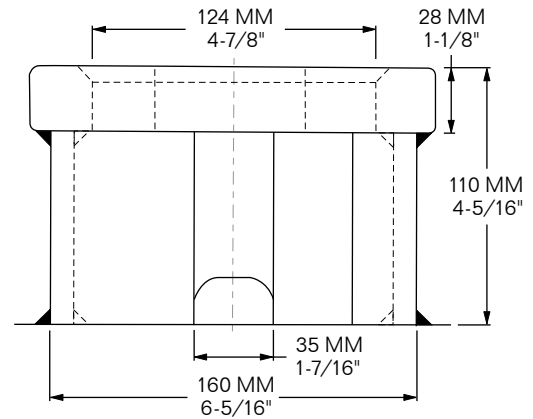
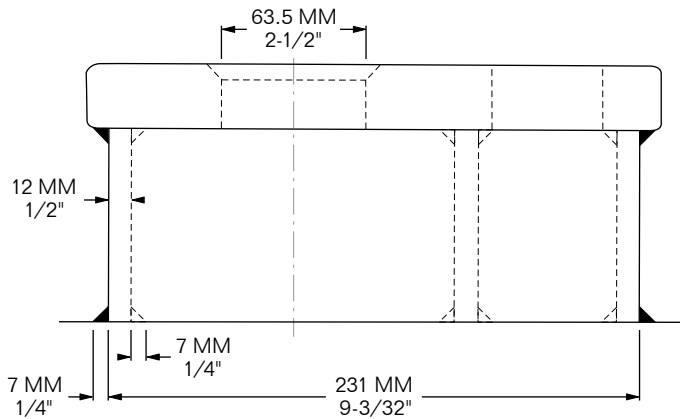
**SUB FOR: K-2321 MATERIAL: STEEL**  
**WEIGHT: 12.29 Kg / 27.1 LBS**

5011





**MODEL 5011-D92A-W-110**  
**FOR 102" WIDE CONTAINERS**



**MIN. B.L. TENSION: 50 M. TON**  
**MIN. B.L. SHEAR: 42 M. TON**  
**MIN. B.L. COMPRESSION: 203 M. TON**

**MATERIAL: STEEL**  
**WEIGHT: 13.6 Kg / 30 LBS**

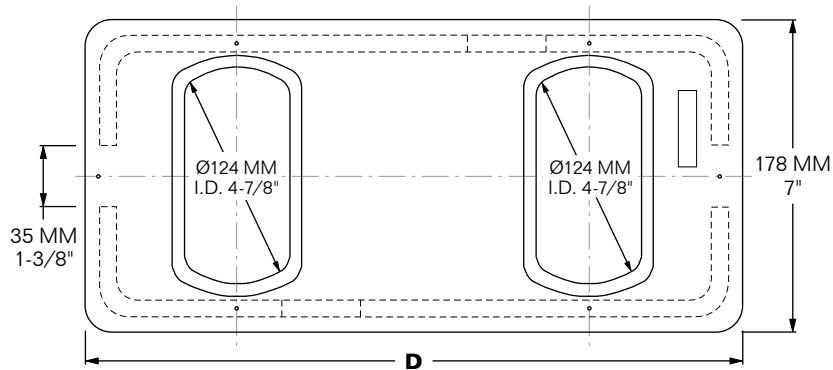
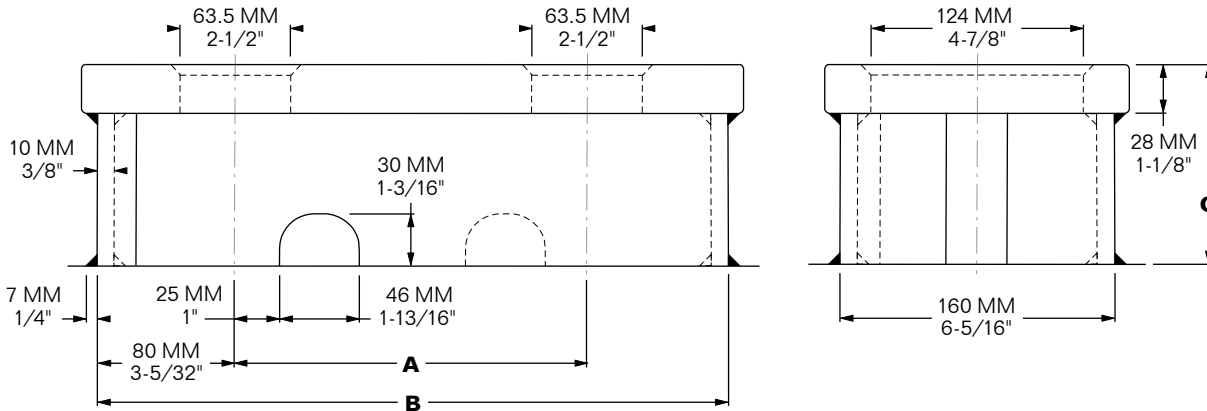
**5011**







- SPECIAL ORDER ONLY** **MODEL 5011-D92B-197-110-P**
- SPECIAL ORDER ONLY** **MODEL 5011-D92B-203-110-P**
- SPECIAL ORDER ONLY** **MODEL 5011-D92B-203-120-P**
- SPECIAL ORDER ONLY** **MODEL 5011-D92B-216-110-P**
- SPECIAL ORDER ONLY** **MODEL 5011-D92B-216-130-P**
- SPECIAL ORDER ONLY** **MODEL 5011-D92B-234-110-HDG**
- SPECIAL ORDER ONLY** **MODEL 5011-D92B-258-110-P**



Ratings below are per aperture:

**MIN. B.L. TENSION:**  
50 M. TON

**MIN. B.L. SHEAR:**  
42 M. TON

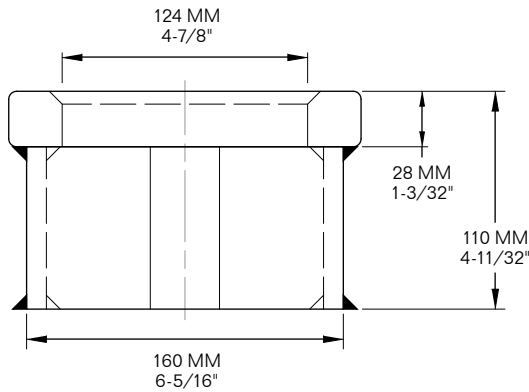
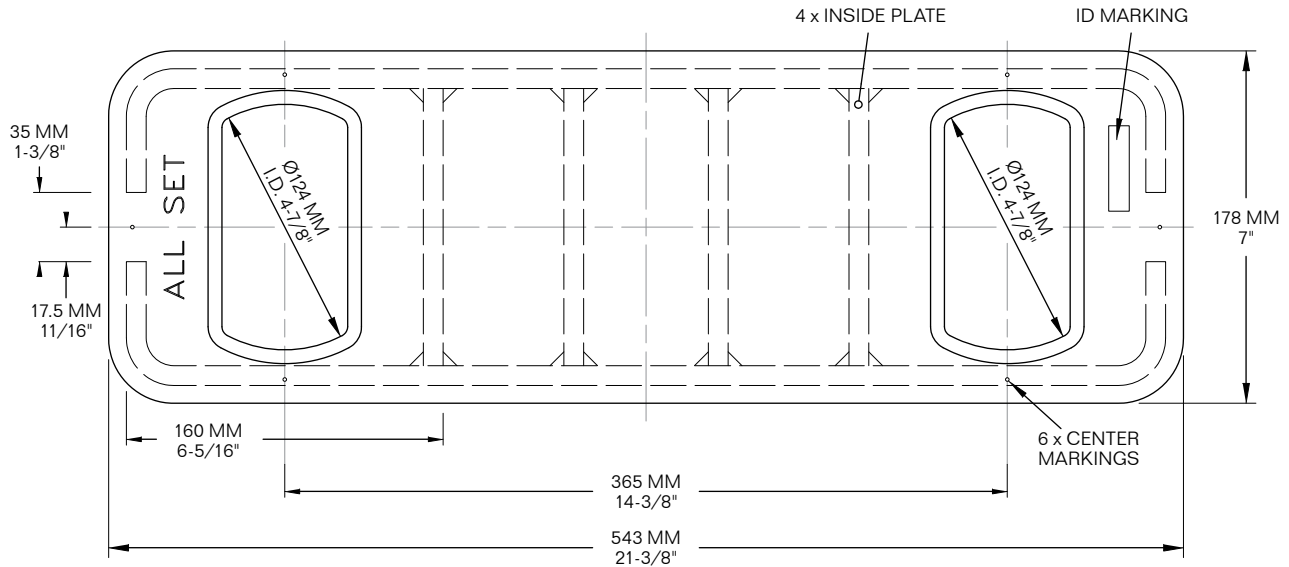
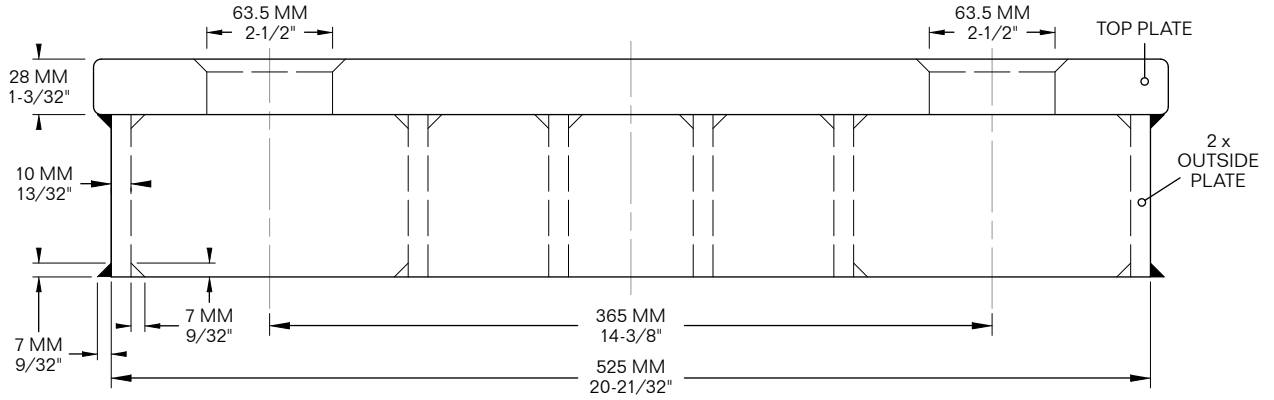
**MIN. B.L. COMPRESSION:**  
203 M. TON

**MATERIAL: STEEL**

5011

MODEL	A	B	C	D	WEIGHT	SUB FOR
<b>5011-D92B-197-110-P</b>	197 MM 7-3/4"	357 MM 14-1/16"	110 MM 4-5/16"	375 MM 14-3/4"	17 Kg 37.5 LBS	—
<b>5011-D92B-203-110-P</b>	203 MM 8"	363 MM 14-5/16"	110 MM 4-5/16"	382 MM 15-1/32"	17.26 Kg 38.05 LBS	K-1531-124/124
<b>5011-D92B-203-120-P</b>	203 MM 8"	363 MM 14-5/16"	120 MM 4-23/32"	382 MM 15-1/32"	18.05 Kg 39.8 LBS	—
<b>5011-D92B-216-110-P</b>	216 MM 8-1/2"	376 MM 14-13/16"	110 MM 4-5/16"	395 MM 15-9/16"	16.1 Kg 35.5 LBS	—
<b>5011-D92B-216-130-P</b>	216 MM 8-1/2"	376 MM 14-13/16"	130 MM 5-1/8"	395 MM 15-9/16"	24.27 Kg 53.5 LBS	—
<b>5011-D92B-234-110-HDG</b>	234 MM 9-7/32"	394 MM 15-1/2"	110 MM 4-5/16"	415 MM 16-5/16"	17.9 Kg 39.46 LBS	—
<b>5011-D92B-258-110-P</b>	258 MM 10-5/32"	418 MM 16-7/16"	110 MM 4-5/16"	439 MM 17-1/4"	16.7 Kg 36.8 LBS	—

**SPECIAL ORDER ONLY MODEL 5011-D92B-365-W-110-P**



Ratings below are per aperture:

**MIN. B.L. TENSION: 50 M. TON**  
**MIN. B.L. SHEAR: 42 M. TON**  
**MIN. B.L. COMPRESSION: 203 M. TON**

**MATERIAL: STEEL FINISH: PRIMER**  
**WEIGHT: 30.26 Kg / 66.7 LBS**

**5011**

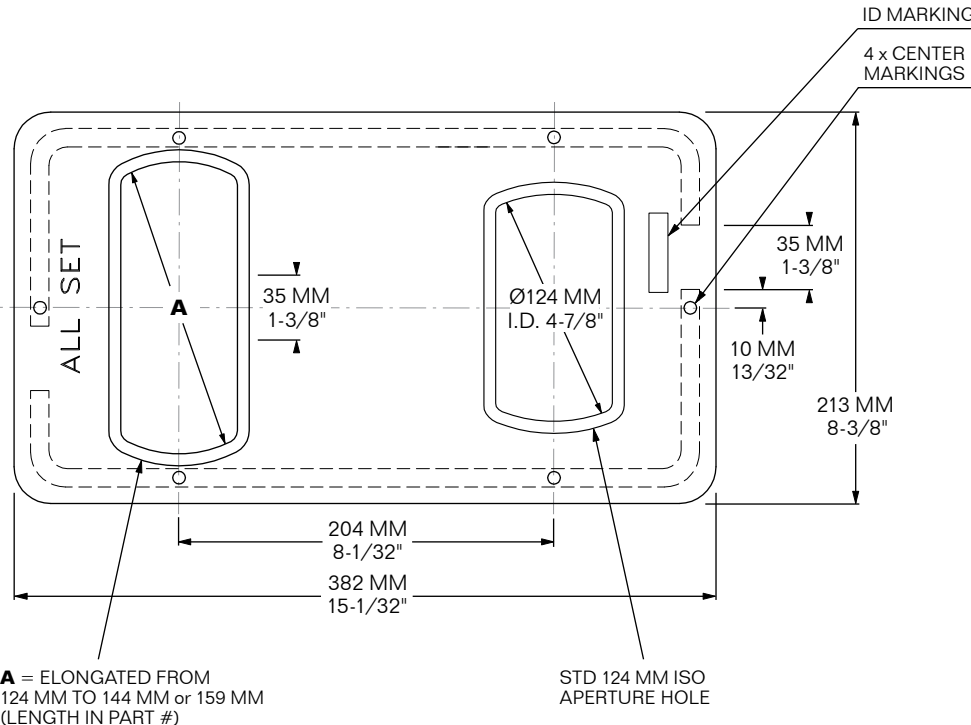
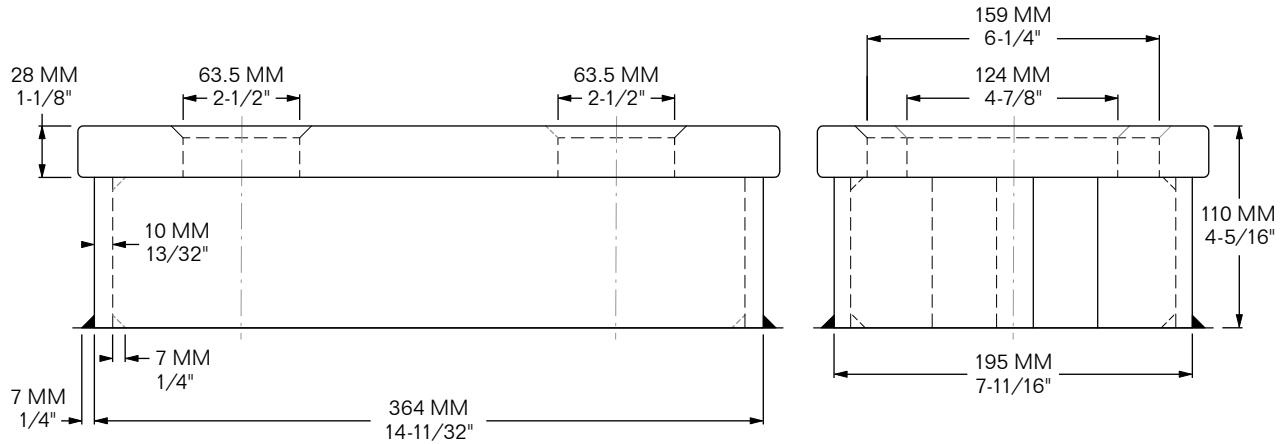




SPECIAL ORDER ONLY

**MODEL 5011-D91B-203-110-124/144-P**

**MODEL 5011-D91B-203-110-124/159-P**



Ratings below are per aperture:

**MIN. B.L. TENSION:** 50 M. TON  
**MIN. B.L. SHEAR:** 42 M. TON  
**MIN. B.L. COMPRESSION:** 203 M. TON

**124/159 SUB FOR:** K-1531-124/159  
**MATERIAL:** STEEL **FINISH:** PRIMER  
**WEIGHT:** 20.53 Kg / 45.25 LBS

5011

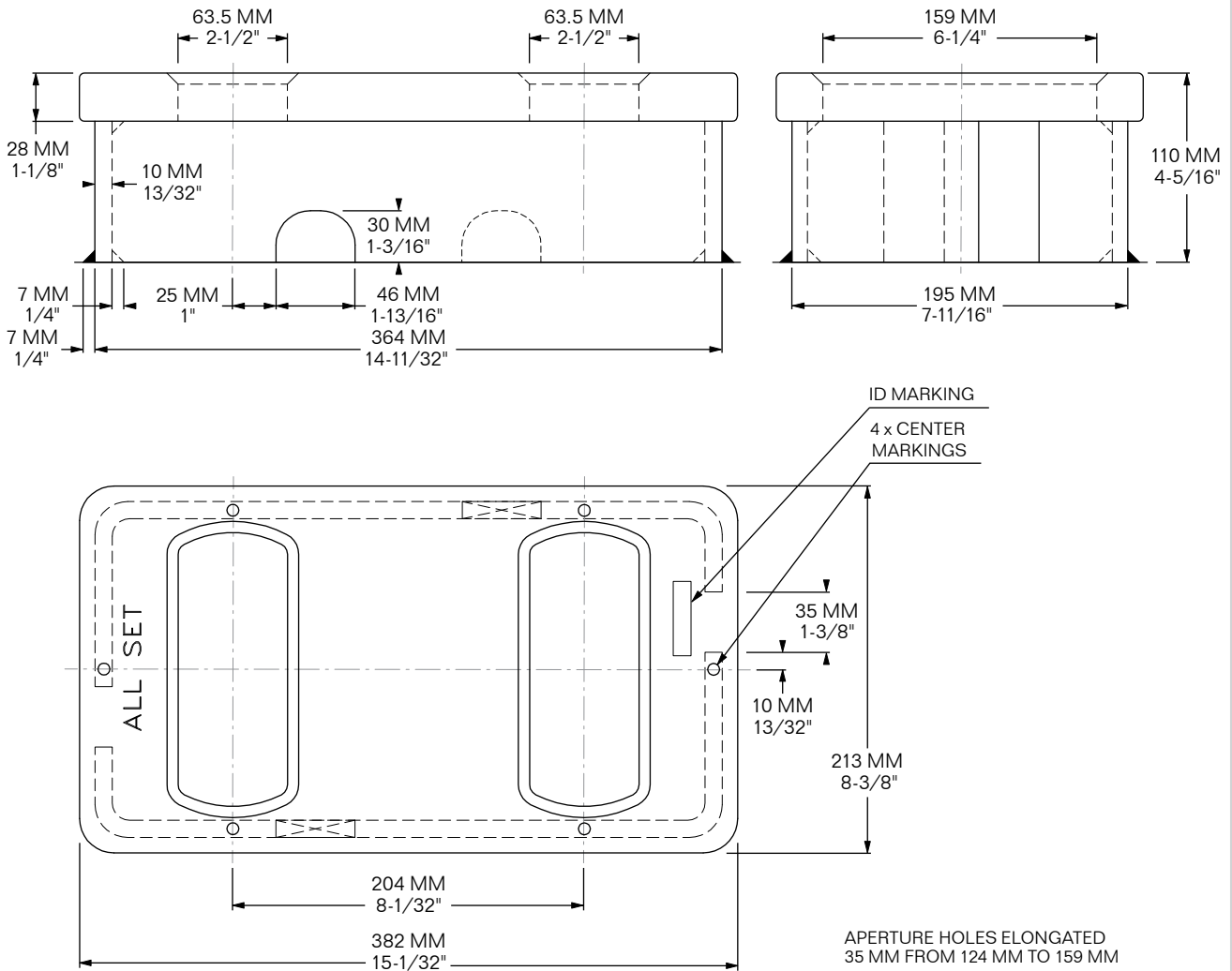




**SPECIAL ORDER ONLY**

**MODEL 5011-D91B-203-110-159/159-HDG**

**MODEL 5011-D91B-203-110-159/159-P**



**5011**

Ratings below are per aperture:

**MIN. B.L. TENSION:** 50 M. TON  
**MIN. B.L. SHEAR:** 42 M. TON  
**MIN. B.L. COMPRESSION:** 203 M. TON

**SUB FOR:** K-1531-159/159 **MATERIAL:** STEEL  
**WEIGHT:** 19.96 Kg / 44 LBS





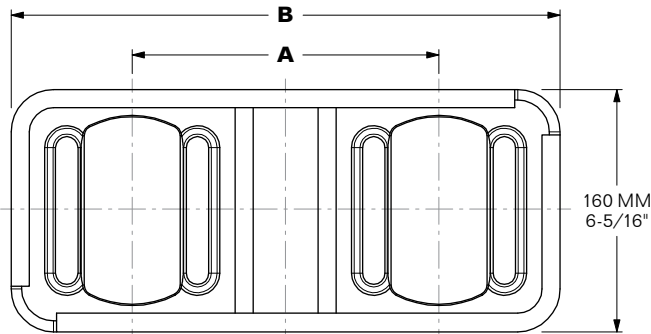
### MODEL 5011-TF-12/SP12-2-XXX-XXX

**TWISTLOCK FOUNDATIONS** w/ Type 2 Top Plates

Side plate 12 mm; see table below for details on all available models:

MODEL	A	B	H (Height)	FINISH	WEIGHT
5011-TF-12/SP12-2-203-110-P	203 MM / 8"	363 MM / 14-5/16"	110 MM / 4-5/16"	Primer	14.1 Kg / 31.2 LBS
5011-TF-12/SP12-2-203-140-P*	203 MM / 8"	363 MM / 14-5/16"	140 MM / 5-1/2"	Primer	16.7 Kg / 36.8 LBS
5011-TF-12/SP12-2-203-150-P*	203 MM / 8"	363 MM / 14-5/16"	150 MM / 5-15/16"	Primer	17.5 Kg / 38.7 LBS
5011-TF-12/SP12-2-216-110-P	216 MM / 8-1/2"	376 MM / 14-13/16"	110 MM / 4-5/16"	Primer	14.4 Kg / 31.6 LBS
5011-TF-12/SP12-2-216-140-P*	216 MM / 8-1/2"	376 MM / 14-13/16"	140 MM / 5-1/2"	Primer	17 Kg / 37.4 LBS
5011-TF-12/SP12-2-216-150-P*	216 MM / 8-1/2"	376 MM / 14-13/16"	150 MM / 5-15/16"	Primer	17.9 Kg / 39.4 LBS
5011-TF-12/SP12-2-233-110-P*	233 MM / 9-3/16"	393 MM / 15-1/2"	110 MM / 4-5/16"	Primer	14.6 Kg / 32.1 LBS
5011-TF-12/SP12-2-233-140-P*	233 MM / 9-3/16"	393 MM / 15-1/2"	140 MM / 5-1/2"	Primer	17.3 Kg / 38.1 LBS
5011-TF-12/SP12-2-233-150-P*	233 MM / 9-3/16"	393 MM / 15-1/2"	150 MM / 5-15/16"	Primer	18.2 Kg / 40.1 LBS

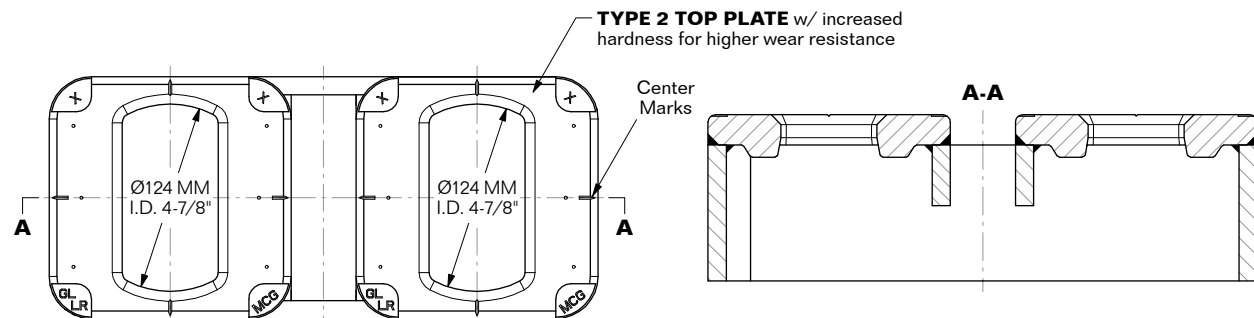
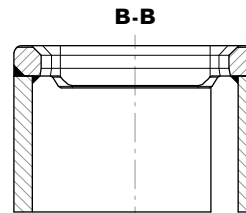
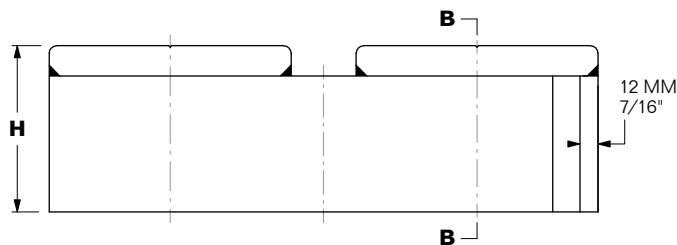
\* **SPECIAL ORDER ONLY**



Ratings below are per aperture:

**MIN. B.L. TENSION:** 50 M. TON  
**MIN. B.L. SHEAR:** 42 M. TON  
**MIN. B.L. COMPRESSION:** 200 M. TON

**DRAWING:** K102791 **MATERIAL:** STEEL  
**CLASS APPROVED**



5011





**SPECIAL ORDER ONLY**

**MODEL 5011-D94B-197-110-HDG**

**SPECIAL ORDER ONLY**

**MODEL 5011-D94B-197-110-P**

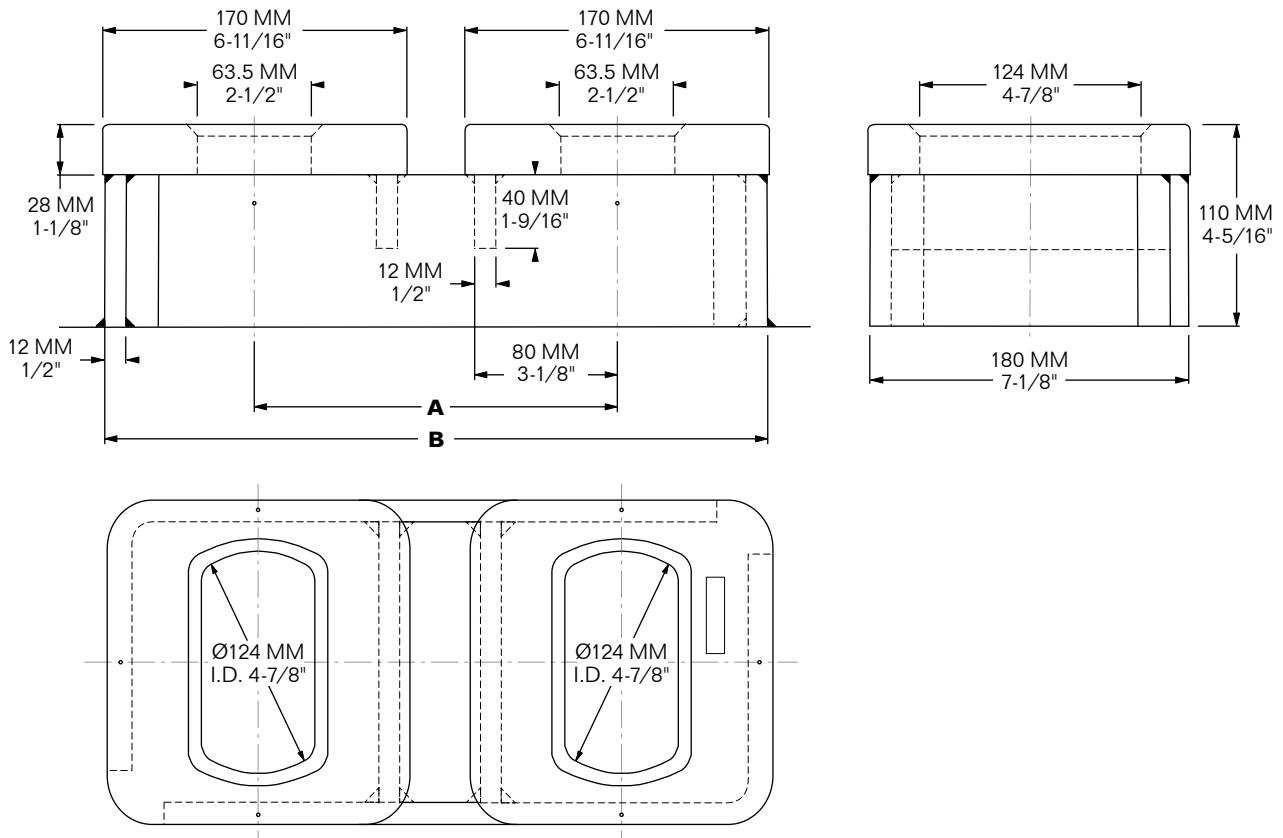
**SPECIAL ORDER ONLY**

**MODEL 5011-D94B-203-110-P**

**SPECIAL ORDER ONLY**

**MODEL 5011-D94B-216-110-HDG**

**MODEL 5011-D94B-216-110-P**



**5011**

MODEL	A	B	FINISH
<b>5011-D94B-197-110-HDG</b>	197 MM / 7-3/4"	357 MM / 14-1/16"	HDG
<b>5011-D94B-197-110-P</b>	197 MM / 7-3/4"	357 MM / 14-1/16"	PRIMER
<b>5011-D94B-203-110-P</b>	203 MM / 8"	363 MM / 14-5/16"	PRIMER
<b>5011-D94B-216-110-HDG</b>	216 MM / 8-1/2"	376 MM / 14-13/16"	HDG
<b>5011-D94B-216-110-P</b>	216 MM / 8-1/2"	376 MM / 14-13/16"	PRIMER

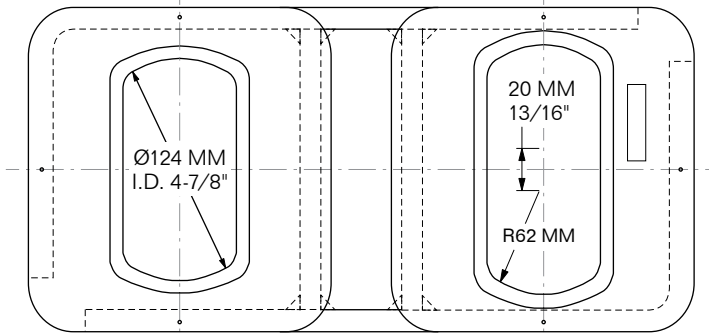
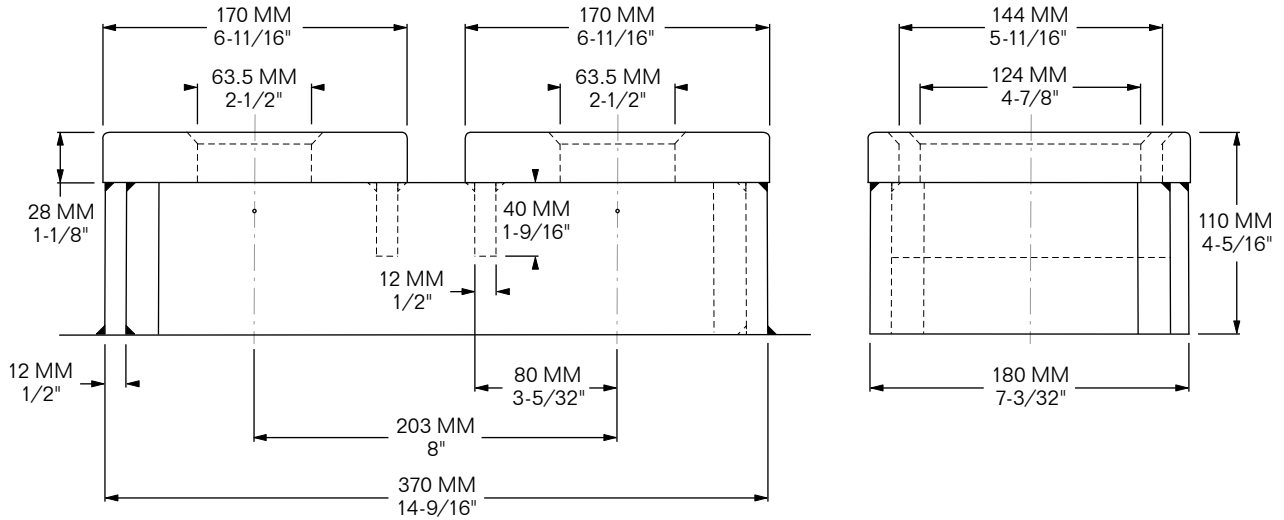
Ratings below are per aperture:

**MIN. B.L. TENSION:** 50 M. TON  
**MIN. B.L. SHEAR:** 42 M. TON  
**MIN. B.L. COMPRESSION:** 203 M. TON

**MATERIAL:** STEEL **WEIGHT:** 17.9 Kg / 39.5 LBS



**MODEL 5011-D94E-203-110-124/144-P**



STD 124 MM APERTURE HOLE

ELONGATED 20 MM FROM 124 MM TO 144 MM

Ratings below are per aperture:

**MIN. B.L. TENSION:** 50 M. TON  
**MIN. B.L. SHEAR:** 42 M. TON  
**MIN. B.L. COMPRESSION:** 203 M. TON

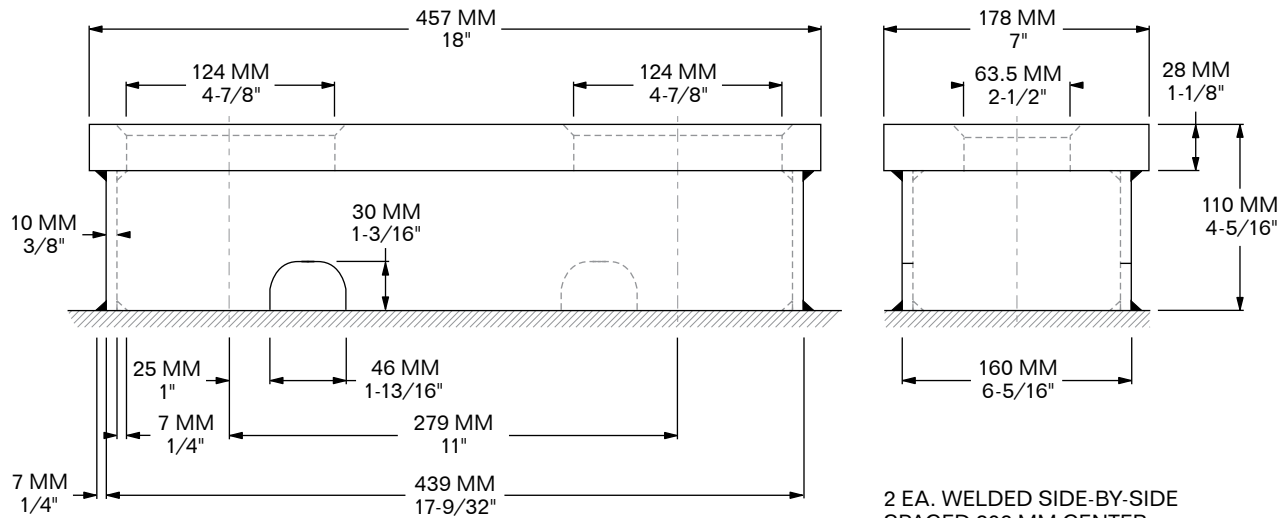
**MATERIAL:** STEEL  
**WEIGHT:** 17.9 Kg / 39.5 LBS

5011

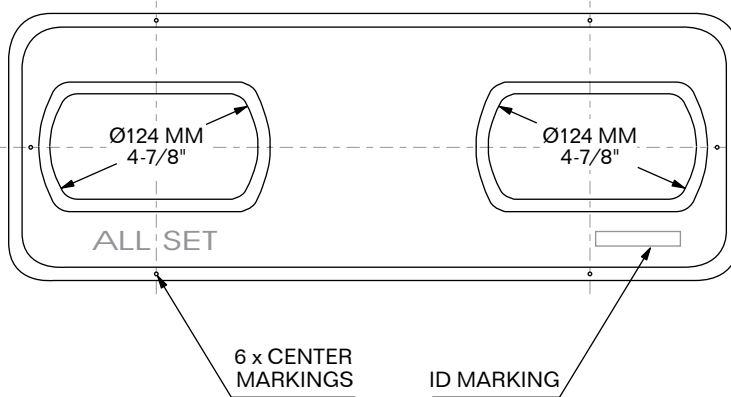




**MODEL 5011-D92C-279-110-P**



2 EA. WELDED SIDE-BY-SIDE  
SPACED 203 MM CENTER  
TO CENTER APERTURES  
MAKES ONE QUAD SOCKET.



Ratings below are per aperture:

**MIN. B.L. TENSION:** 50 M. TON  
**MIN. B.L. SHEAR:** 42 M. TON  
**MIN. B.L. COMPRESSION:** 203 M. TON

**SUB FOR:** K-1539-124/124 **MATERIAL:** STEEL  
**WEIGHT:** 17 Kg / 37.5 LBS  
**CLASS APPROVED**

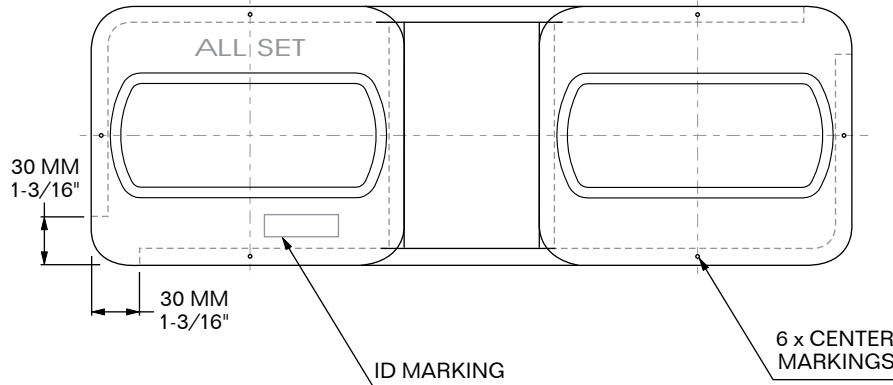
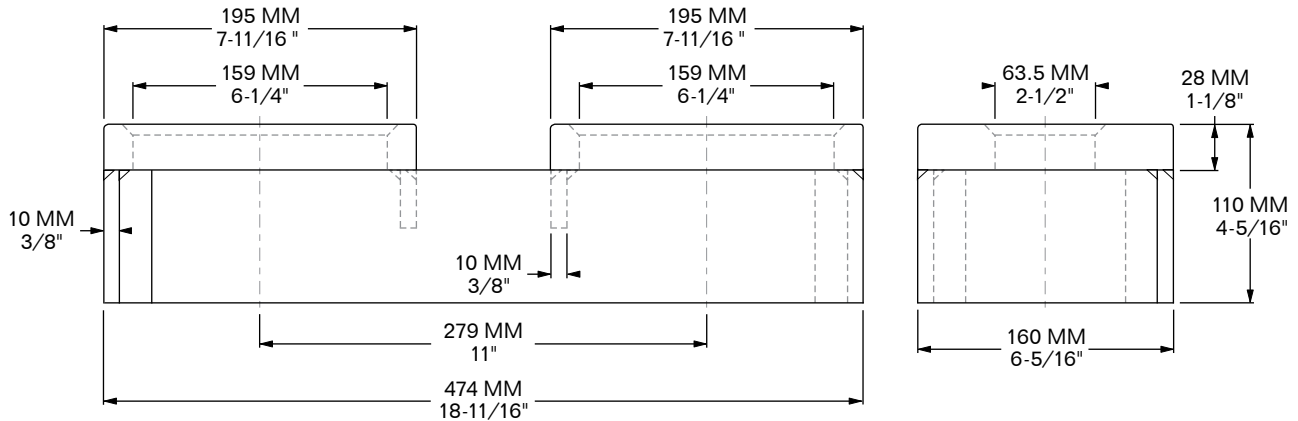
**5011**







**SPECIAL ORDER ONLY MODEL 5011-D94C2-279-110-159/159-P**



2 EA. WELDED SIDE-BY-SIDE  
 SPACED 203 MM CENTER  
 TO CENTER APERTURES  
 MAKES ONE QUAD SOCKET.

**NOTE:** BOTH APERTURE HOLES  
 ELONGATED 35 MM FROM  
 124 MM TO 159 MM.

Ratings below are per aperture:

**MIN. B.L. TENSION:** 50 M. TON  
**MIN. B.L. SHEAR:** 42 M. TON  
**MIN. B.L. COMPRESSION:** 203 M. TON

**SUB FOR:** K-1539-159/159 **MATERIAL:** STEEL  
**WEIGHT:** 17.2 Kg / 37.9 LBS

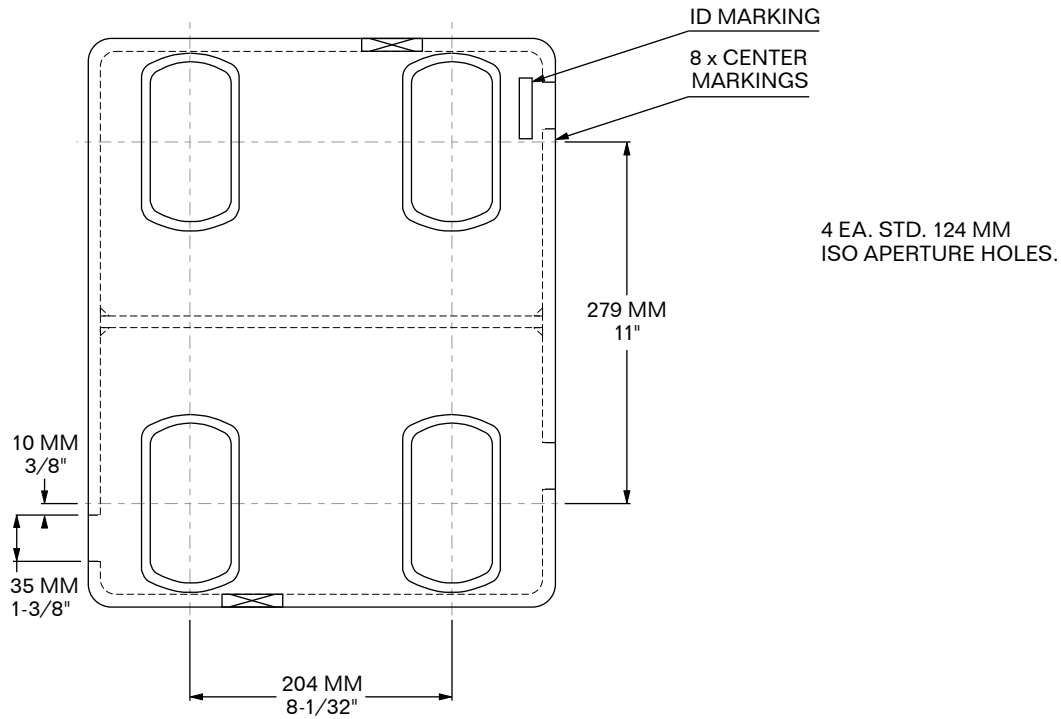
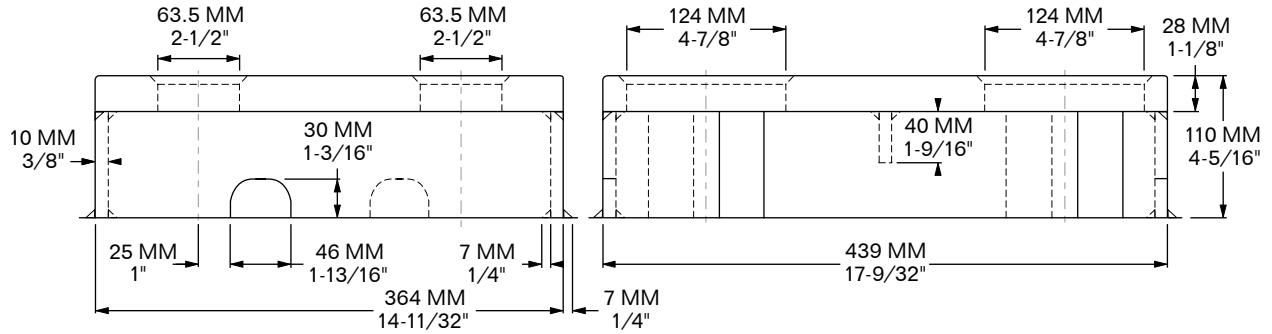
5011





SPECIAL ORDER ONLY

**MODEL 5011-D94BC-110-124/124-P**



Ratings below are per aperture:

**MIN. B.L. TENSION:** 50 M. TON  
**MIN. B.L. SHEAR:** 42 M. TON  
**MIN. B.L. COMPRESSION:** 203 M. TON

**SUB FOR:** K-1579-124/124 **MATERIAL:** STEEL  
**WEIGHT:** 38.4 Kg / 84.6 LBS

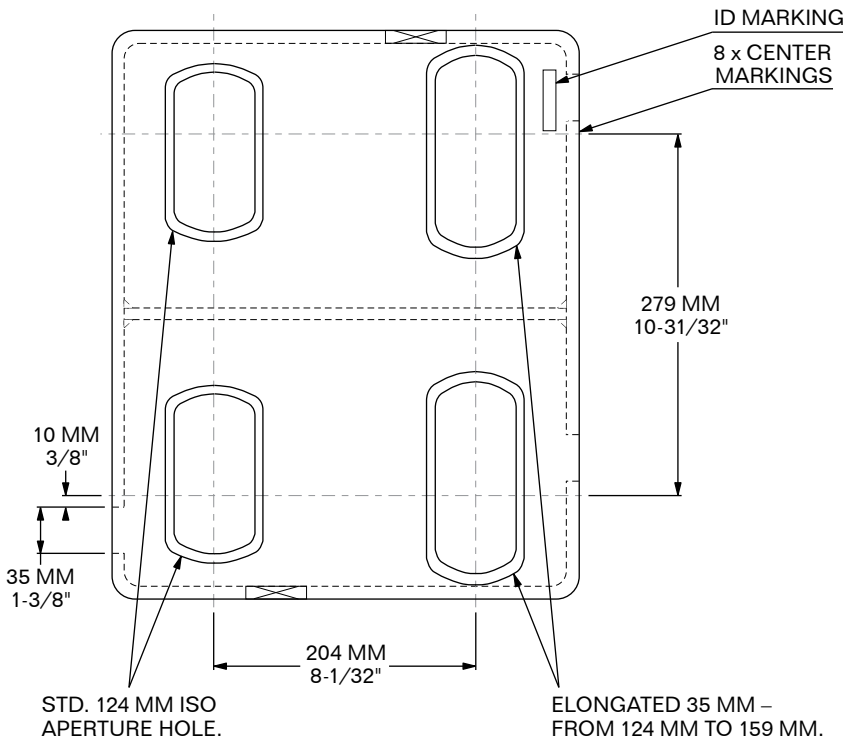
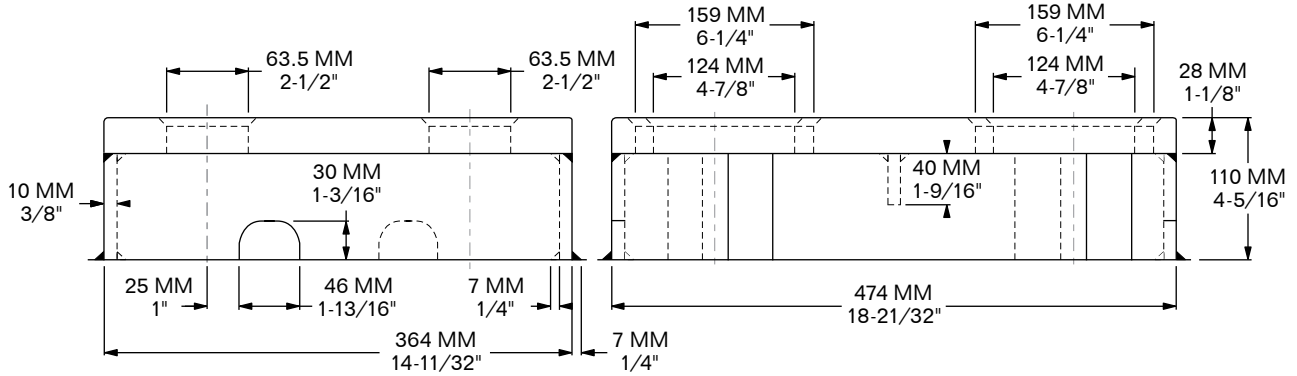
**5011**





SPECIAL ORDER ONLY

**MODEL 5011-D94EC-110-124/159-P**



5011

Ratings below are per aperture:

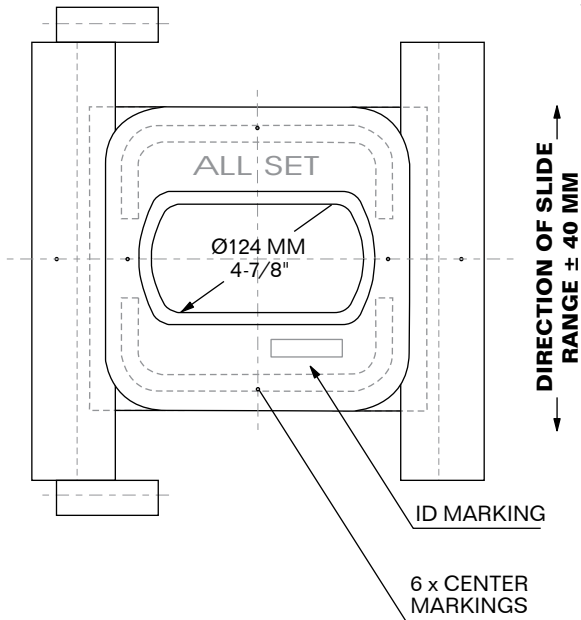
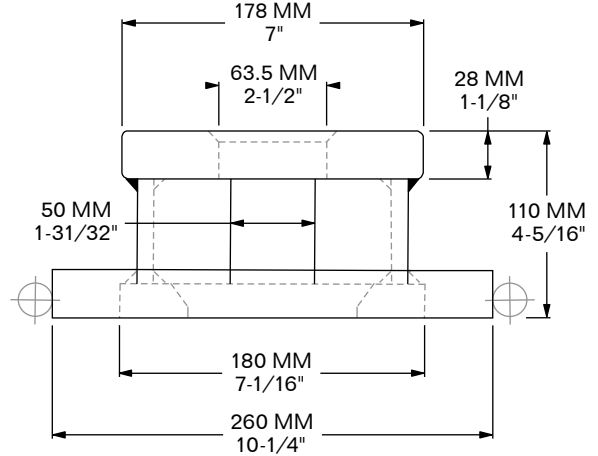
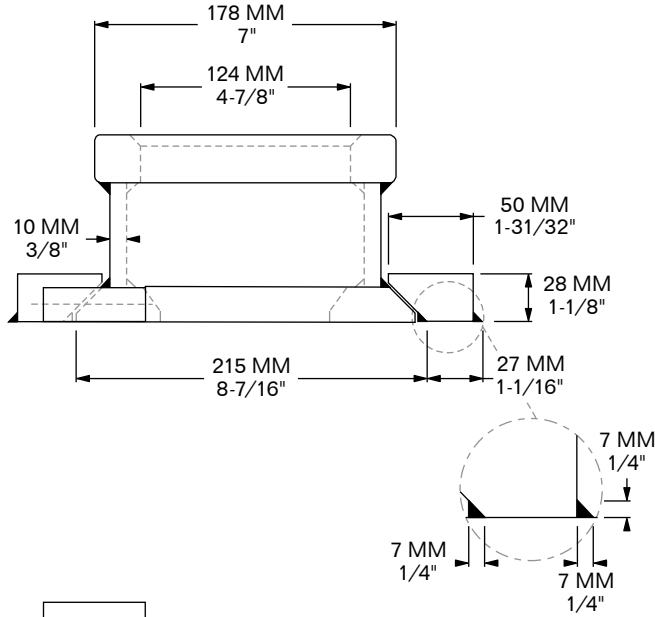
**MIN. B.L. TENSION:** 50 M. TON  
**MIN. B.L. SHEAR:** 42 M. TON  
**MIN. B.L. COMPRESSION:** 203 M. TON

**SUB FOR:** K-1579-124/159 **MATERIAL:** STEEL  
**WEIGHT:** 40.8 Kg / 89.9 LBS





**MODEL 5011-D92TS-110-P**



**MIN. B.L. TENSION: 50 M. TON**  
**MIN. B.L. SHEAR: 42 M. TON**  
**MIN. B.L. COMPRESSION: 203 M. TON**

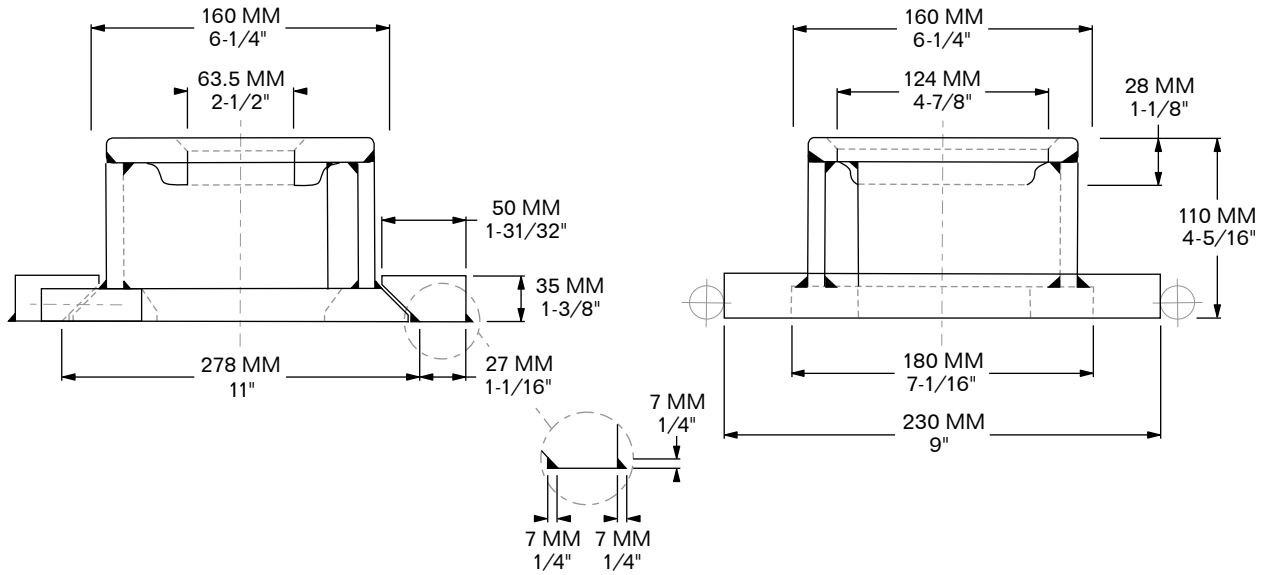
**MATERIAL: STEEL**  
**WEIGHT: 15.9 Kg / 35.1 LBS**

**5011**

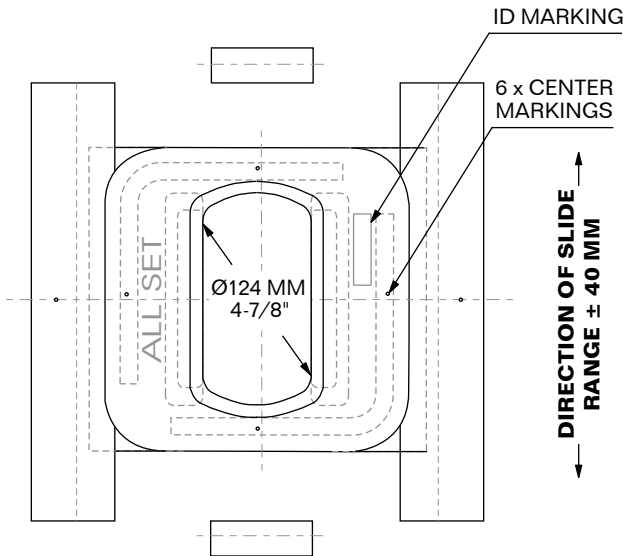




**MODEL 5011-SF-11L-230-110-KIT**



5011



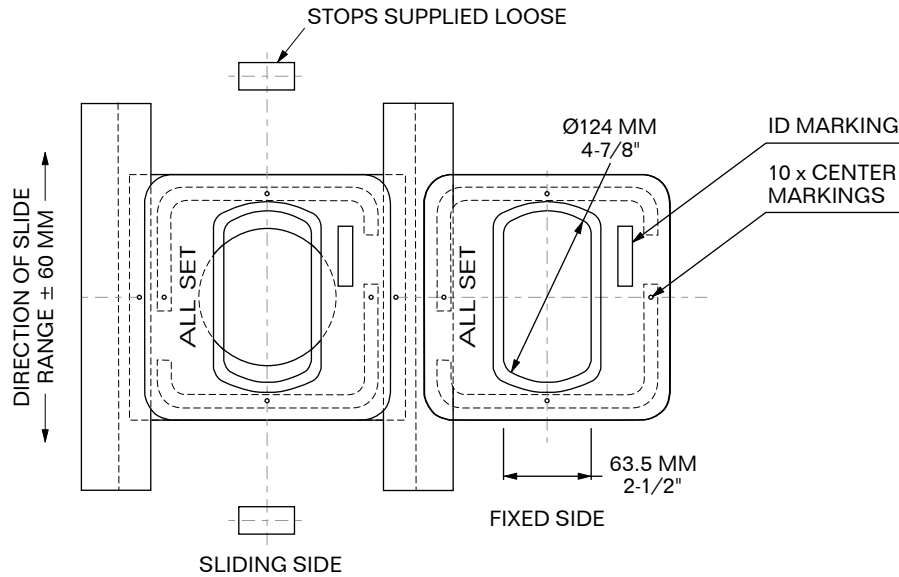
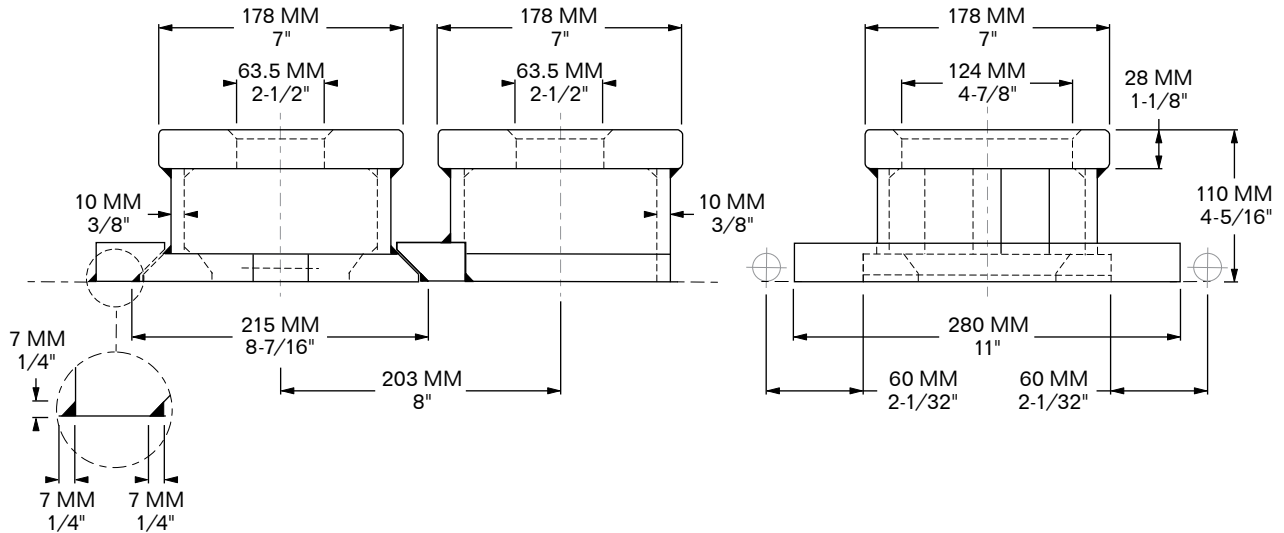
**MIN. B.L. TENSION: 50 M. TON**  
**MIN. B.L. SHEAR: 42 M. TON**  
**MIN. B.L. COMPRESSION: 203 M. TON**

**MATERIAL: STEEL**  
**WEIGHT: 14.7 Kg / 32.4 LBS**





**MODEL 5011-D92BS-203-110-P**



Ratings below are per aperture:

**MIN. B.L. TENSION:** 50 M. TON  
**MIN. B.L. SHEAR:** 42 M. TON  
**MIN. B.L. COMPRESSION:** 203 M. TON

**MATERIAL:** STEEL  
**WEIGHT:** 25.2 Kg / 55.6 LBS

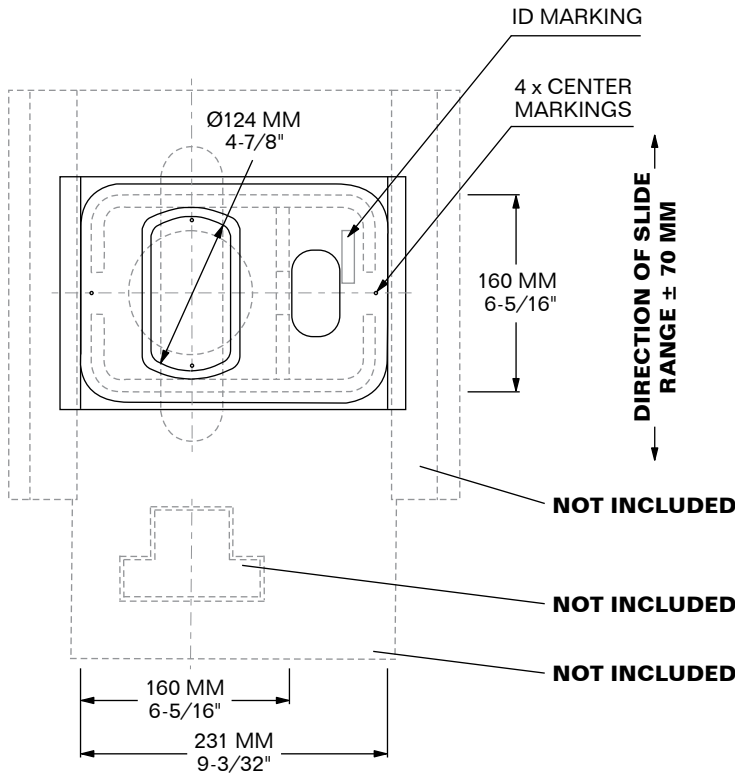
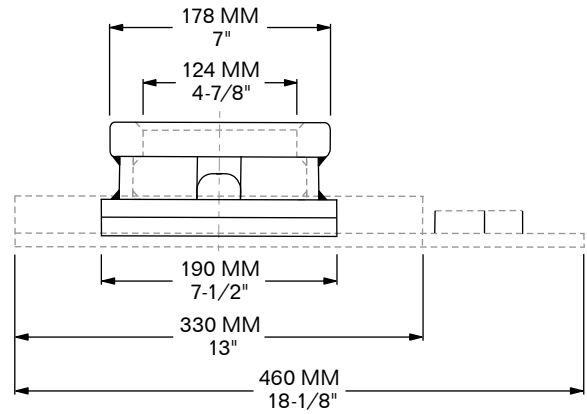
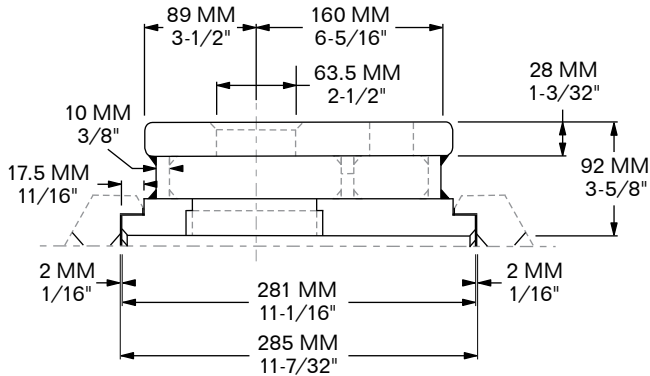
**5011**





**MODEL 5011-D92S/W-HDG**

**MODEL 5011-D92S/W-P**



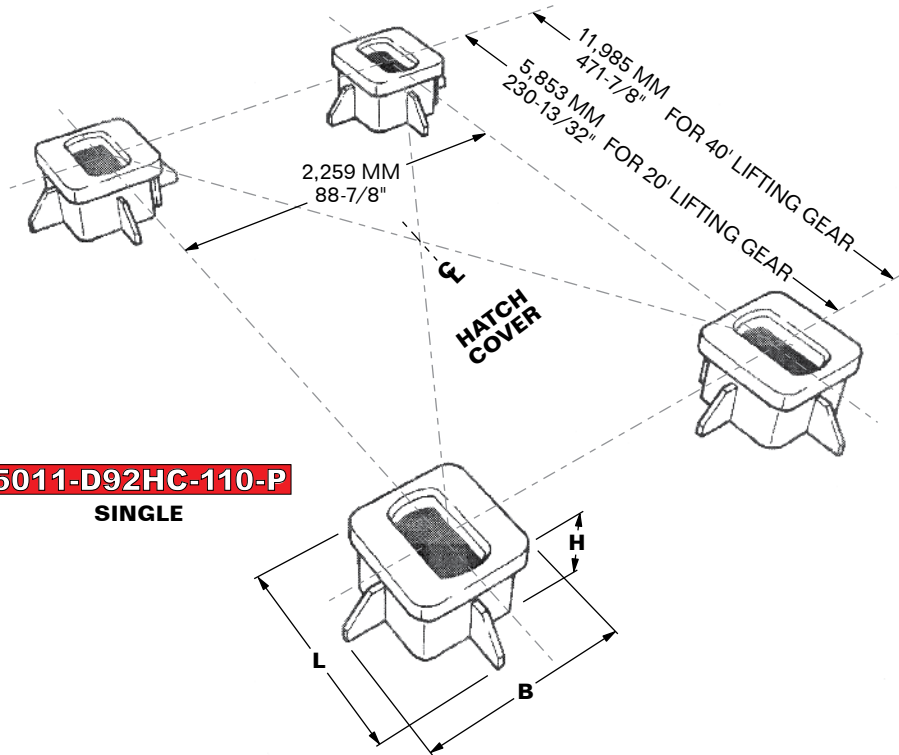
**NOTE:** OVAL CUTOUT ON PRIMER-PAINTED UNIT ONLY.

**MIN. B.L. TENSION:** 50 M. TON  
**MIN. B.L. SHEAR:** 42 M. TON  
**MIN. B.L. COMPRESSION:** 203 M. TON

**MATERIAL:** STEEL  
**WEIGHT:** 20 Kg / 44.1 LBS

5011





**5011-D92HC-110-P**  
SINGLE

5011

MODEL	TENSION BREAKING LOAD (M. TON)	SHEAR BREAKING LOAD (M. TON)	DIMENSIONS			WEIGHT
			L	B	H*	
5011-D92HC-110	50	42	270 MM 10-5/8"	270 MM 10-5/8"	110 MM 4-5/16"	10.0 Kg 22.0 LBS

\* OTHER HEIGHTS AVAILABLE UPON REQUEST.

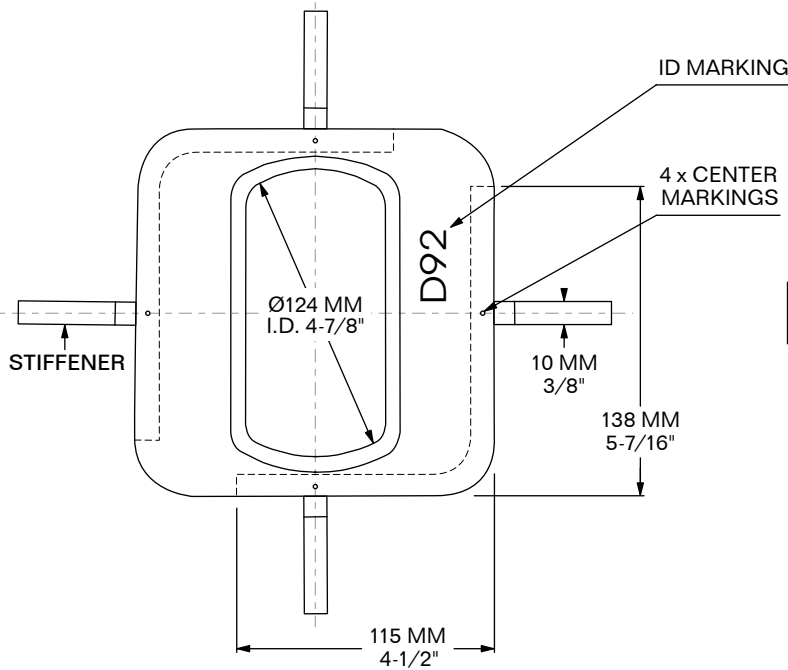
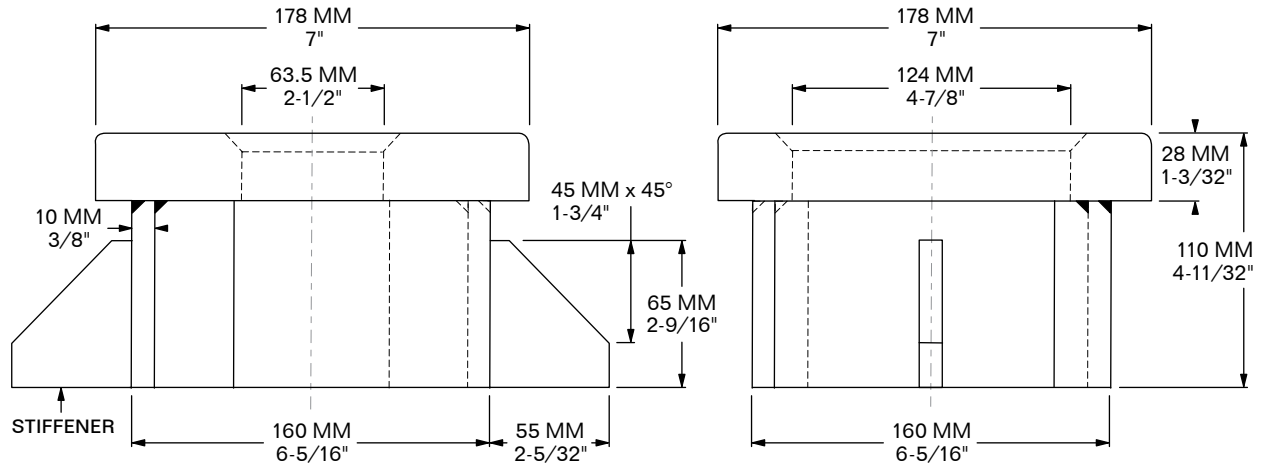
**MATERIAL:** STEEL, WELDED  
**FINISH:** WELDABLE SHOP PRIMER  
(OTHER FINISHES UPON REQUEST)







**MODEL 5011-D92HC-110-P**



**4 PCS. STIFFENER INCLUDED AND SUPPLIED LOOSE**

**MIN. B.L. TENSION: 50 M. TON**  
**MIN. B.L. SHEAR: 42 M. TON**

**MATERIAL: STEEL**  
**WEIGHT: 7.2 Kg / 15.9 LBS**

**5011**

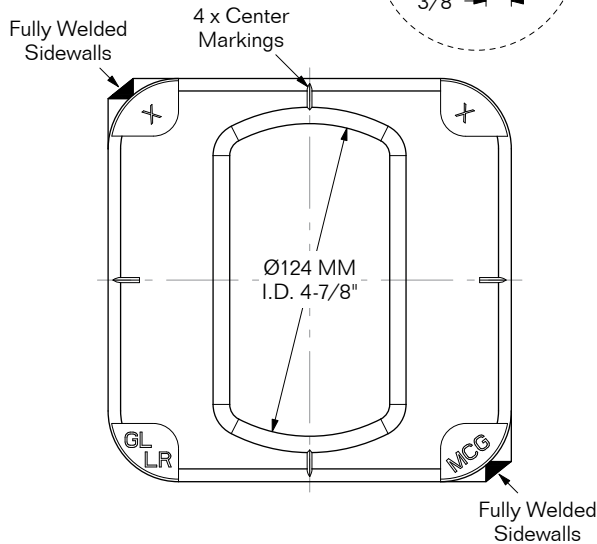
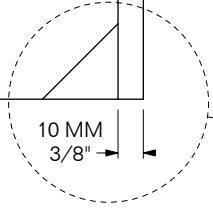
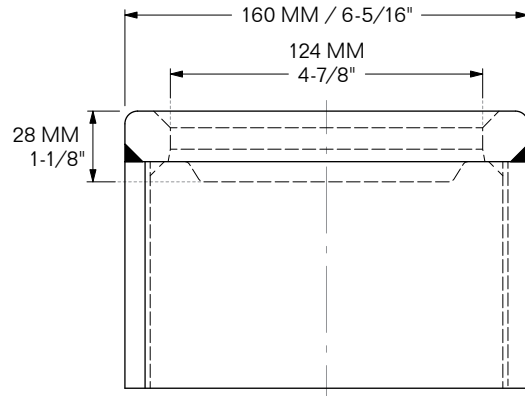
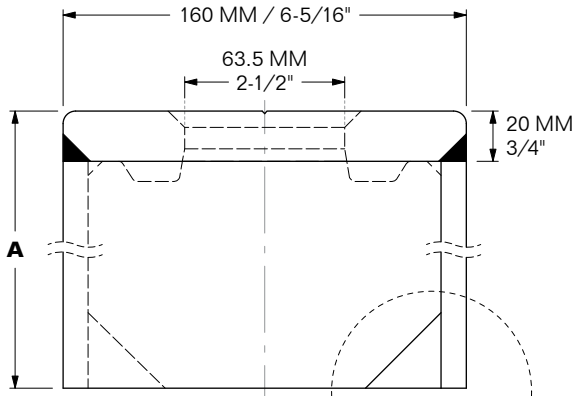




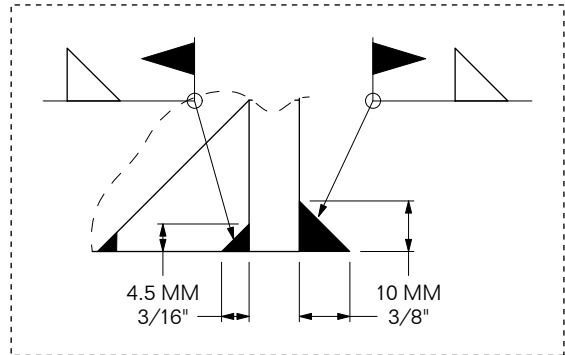
**MODEL 5011-HF-1-1-110**

**SPECIAL ORDER ONLY**

**MODEL 5011-HF-1-1-130**



**WELDING DETAIL**



**5011**

**FOR CONTAINER STORAGE**

MODEL	A	WEIGHT
<b>5011-HF-1-1-110</b>	110 MM / 4-3/8"	7 Kg / 15.43 LBS
<b>5011-HF-1-1-130</b>	130 MM / 5-1/8"	7.8 Kg / 17.16 LBS

Stiffeners available if required by customer's CSM.  
(see part # 5011-D92HC-1656-P)

**FOR LIFTING PURPOSES:**

<b>SWL:</b> 12.5 M. Ton	<b>PL:</b> 25 M. Ton	<b>BL:</b> 50 M. Ton
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**MIN. B.L. TENSION:** 50 M. TON  
**MIN. B.L. SHEAR:** 42 M. TON  
**MIN. B.L. COMPRESSION:** 203 M. TON

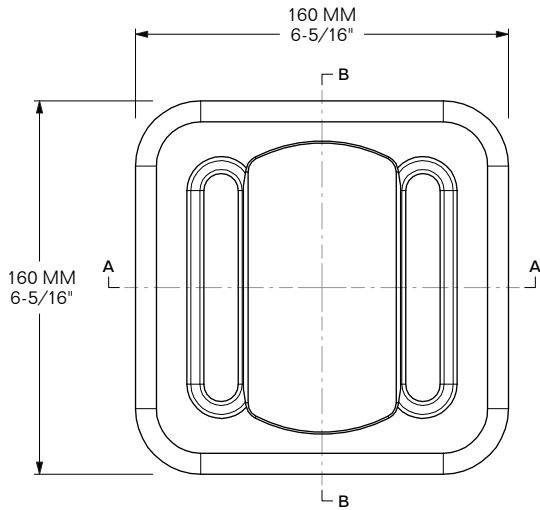
**HF-1-1-110 SUB FOR:** MACGREGOR 1129710  
**HF-1-1-130 SUB FOR:** MACGREGOR 1129730  
**MATERIAL:** STEEL **FINISH:** PRIMER



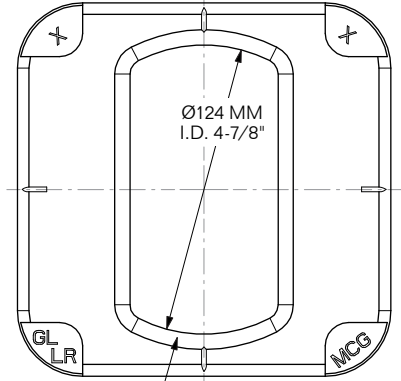


**MODEL 5011-K102763-1086457**

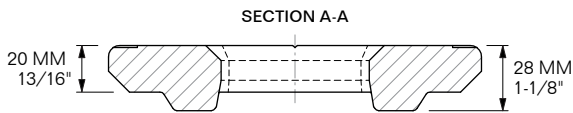
**Top Aperture Plate**  
Twistlock Foundation



SECTION B-B



Standard ISO Aperture



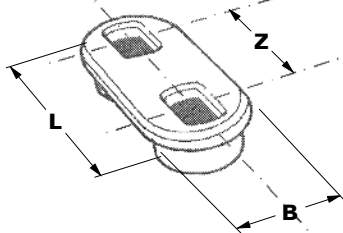
**SUB FOR:** MACGREGOR 1086457  
**MATERIAL:** ALLOY STEEL  
**WEIGHT:** 2.6 Kg / 5.74 LBS

**5011**

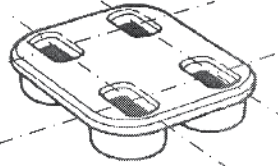




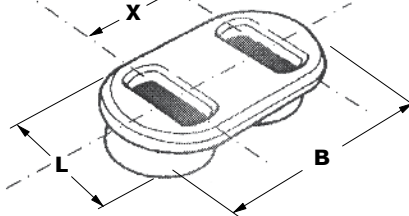
**MODEL 5011-D6C**  
DOUBLE, LONGITUDINAL



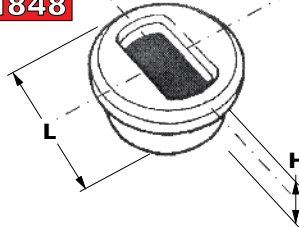
**MODEL 5011-D6D**  
QUADRUPLE



**MODEL 5011-D6B**  
DOUBLE, TRANSVERSAL



**MODEL 5011-1848**  
SINGLE



MODEL	TENSION BREAKING LOAD (M. Ton)	SHEAR BREAKING LOAD (M. Ton)	DIMENSIONS					WEIGHT
			X	Z	L	B	H*	
<b>5011-1848</b>	50	42	—	—	Ø190 MM O.D. 7-1/2"	100 MM 3-15/16"	8.75 Kg 19.3 LBS	
<b>5011-D6B-203</b>	50	42	203 MM 8"	—	190 MM 7-1/2"	393 MM 15-1/2"	118 MM 4-5/8"	20.2 Kg 44.5 LBS
<b>5011-D6B-258</b> <small>SPECIAL ORDER ONLY</small>	50	42	258 MM 10-5/32"	—	190 MM 7-1/2"	448 MM 17-5/8"	118 MM 4-5/8"	22.7 Kg 50.0 LBS
<b>5011-D6C-279</b>	50	42	—	279 MM 11"	469 MM 18-1/2"	190 MM 7-1/2"	118 MM 4-5/8"	23.6 Kg 52.0 LBS
<b>5011-D6D-203/279</b> <small>SPECIAL ORDER ONLY</small>	50	42	203 MM 8"	279 MM 11"	469 MM 18-1/2"	393 MM 15-1/2"	118 MM 4-5/8"	51.2 Kg 112.9 LBS
<b>5011-D6D-258/279</b> <small>SPECIAL ORDER ONLY</small>	50	42	258 MM 10-5/32"	279 MM 11"	469 MM 18-1/2"	448 MM 17-5/8"	118 MM 4-5/8"	57.1 Kg 125.9 LBS

**\*OTHER HEIGHTS AVAILABLE UPON REQUEST**

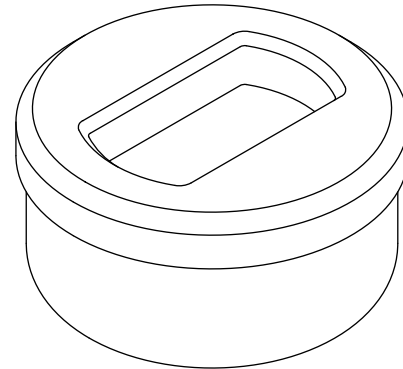
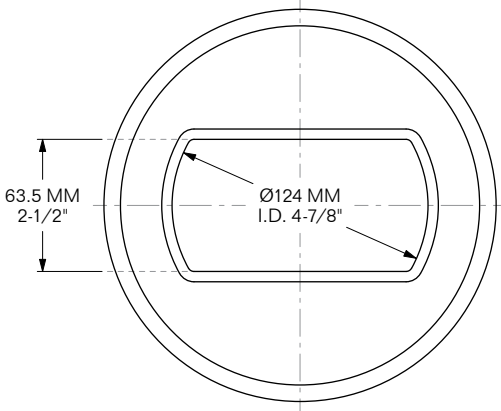
**USE WITH:** INTERMEDIATE TWISTLOCKS & STACKING CONES

**MATERIAL:** STEEL, WELDED  
**FINISH:** WELDABLE SHOP PRIMER  
**CLASS APPROVED**

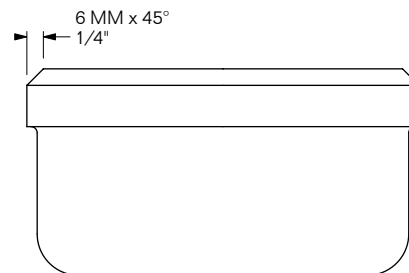
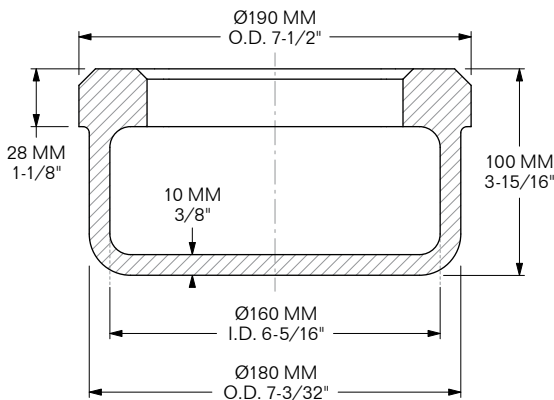
**5011**



**MODEL 5011-1848**



**FLUSH ISO SOCKETS ALSO SUITABLE FOR HATCH COVER LIFT SOCKETS**



**FOR WELDING TO DECK**

**MIN. B.L. TENSION:** 50 M. TON  
**MIN. B.L. SHEAR:** 42 M. TON  
**MIN. B.L. COMPRESSION:** 203 M. TON

**MATERIAL:** CAST STEEL  
**FINISH:** WELDABLE PRIMER  
**WEIGHT:** 8.75 Kg / 19.3 LBS

**5011**

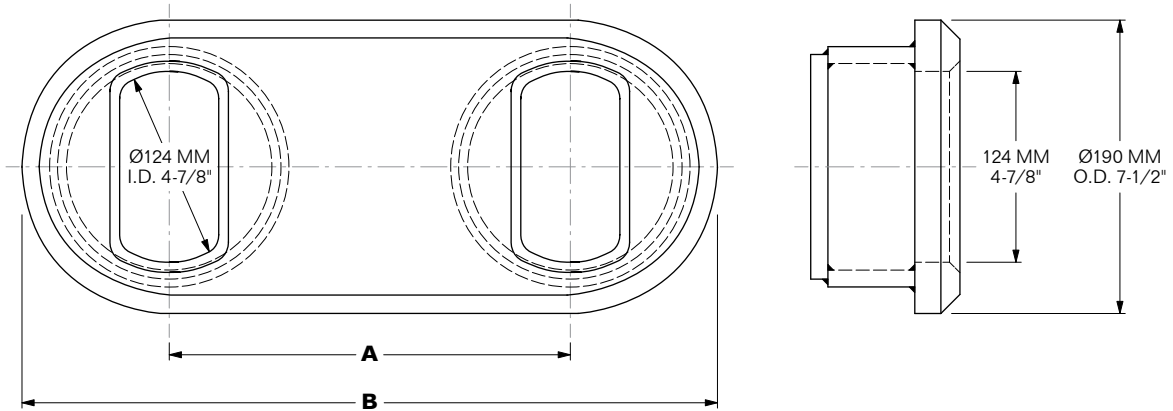
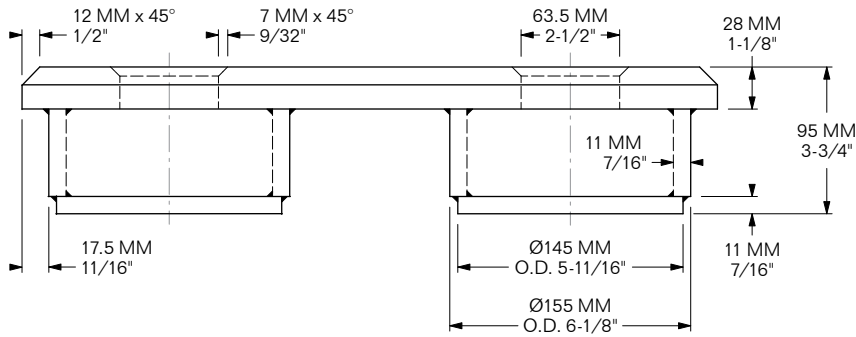




**MODEL 5011-D6B-203**

**SPECIAL ORDER ONLY**

**MODEL 5011-D6B-258**



MODEL	A	B	WEIGHT
5011-D6B-203	203 MM / 8"	393 MM / 15-1/2"	20.2 Kg / 44.5 LBS
5011-D6B-258	258 MM / 10-5/32"	448 MM / 17-5/8"	21.1 Kg / 46.6 LBS

Ratings below are per aperture:

**MIN. B.L. TENSION:** 50 M. TON  
**MIN. B.L. SHEAR:** 42 M. TON  
**MIN. B.L. COMPRESSION:** 203 M. TON

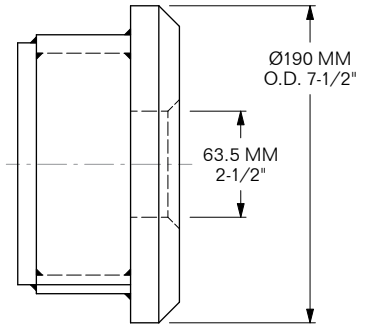
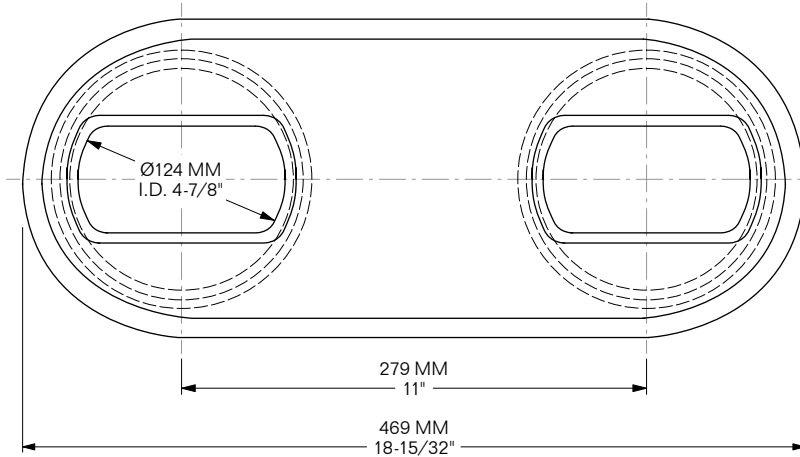
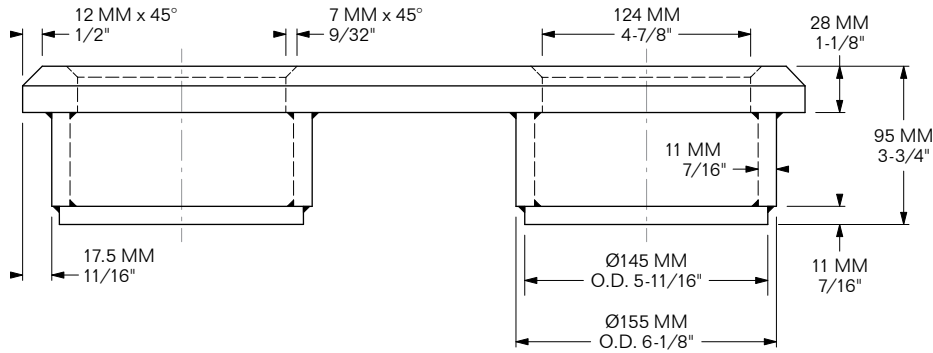
**MATERIAL:** STEEL **FINISH:** PRIMER

**5011**





**MODEL 5011-D6C-279**



5011

Ratings below are per aperture:

**MIN. B.L. TENSION:** 50 M. TON  
**MIN. B.L. SHEAR:** 42 M. TON  
**MIN. B.L. COMPRESSION:** 203 M. TON

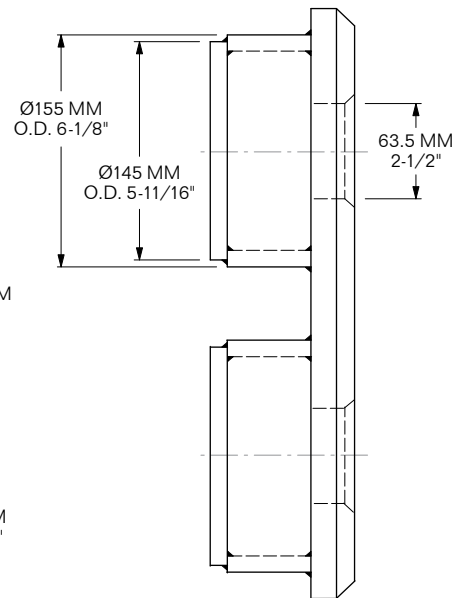
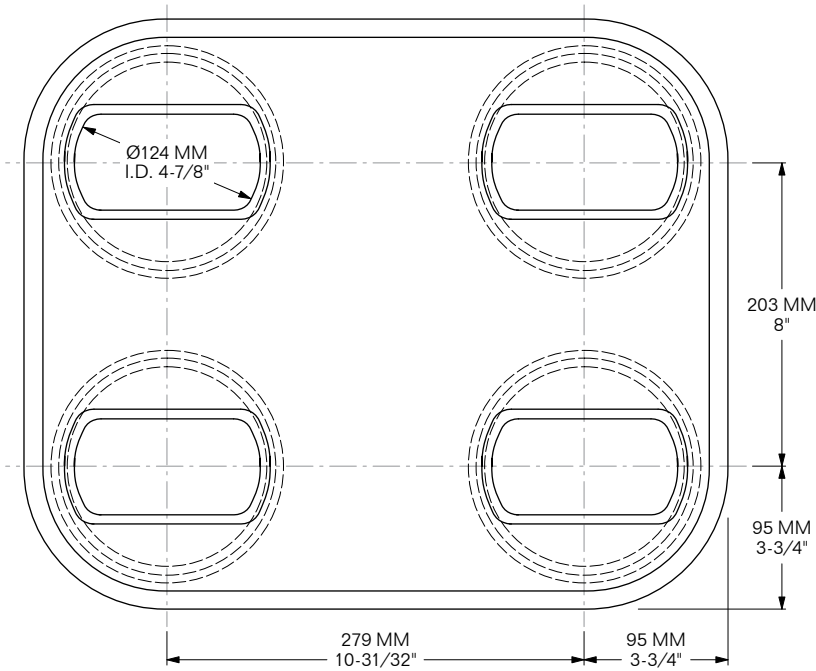
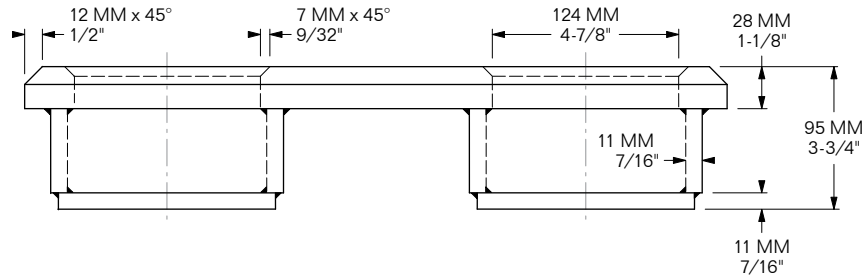
**MATERIAL:** STEEL **FINISH:** PRIMER  
**WEIGHT:** 22.1 Kg / 48.7 LBS





SPECIAL ORDER ONLY

**MODEL 5011-D6D-203/279**



Ratings below are per aperture:

**MIN. B.L. TENSION:** 50 M. TON  
**MIN. B.L. SHEAR:** 42 M. TON  
**MIN. B.L. COMPRESSION:** 203 M. TON

**MATERIAL:** STEEL **FINISH:** PRIMER  
**WEIGHT:** 48 Kg / 105.8 LBS

**5011**

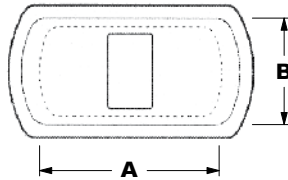
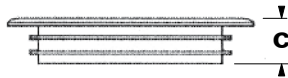






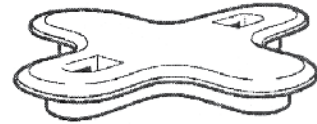
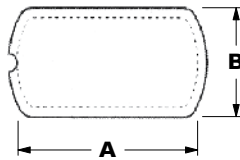
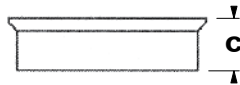
**MODEL 5011-1006929**

**COVER FOR  
ISO DECK SOCKET**



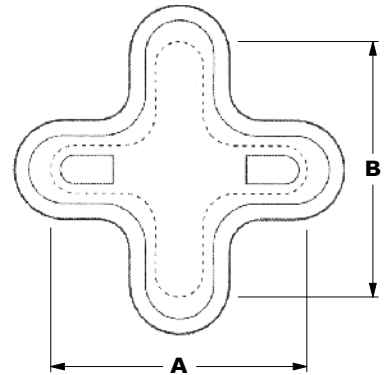
**MODEL 5011-E11B**

**COVER FOR  
ISO DECK SOCKET**



**MODEL 5011-E12**

**PLUG FOR CLOVERLEAF  
DECK SOCKET**



5011

MODEL	MATERIAL	DIMENSIONS			WEIGHT
		A	B	C	
<b>5011-1006929</b>	PLASTIC	118 MM 4-5/8"	58 MM 2-9/32"	25 MM 1"	0.15 Kg 0.33 LBS
<b>5011-E11B</b>	STEEL	122 MM 4-13/16"	61.5 MM 2-7/16"	27 MM 1-1/16"	1.9 Kg 4.2 LBS
<b>5011-E12</b>	PLASTIC	153 MM 6-1/32"	153 MM 6-1/32"	18 MM 11/16"	0.25 Kg 0.55 LBS

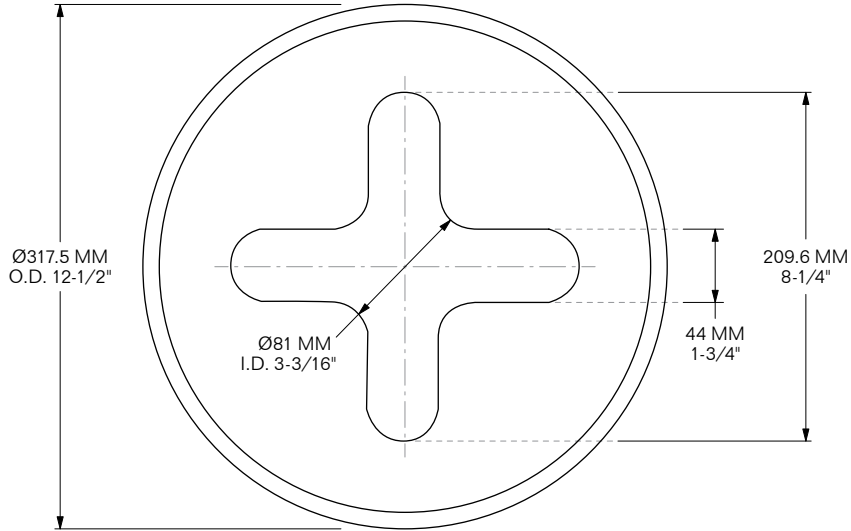
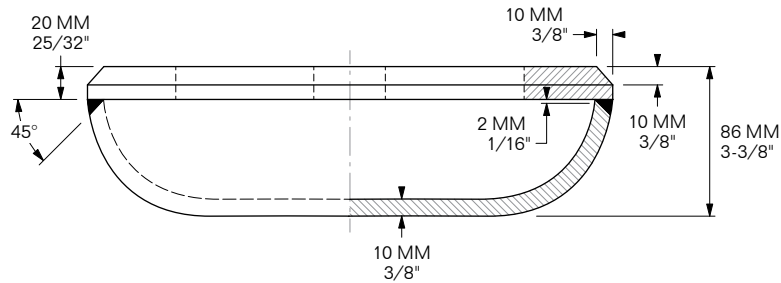
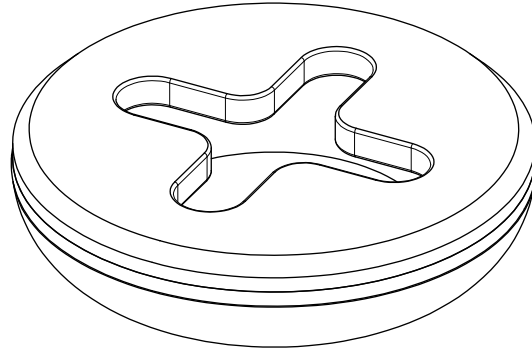
**MATERIAL:** STEEL, WELDED / PLASTIC  
**FINISH:** HOT-DIP GALVANIZED (HDG), PLASTIC





**SPECIAL ORDER ONLY** **MODEL 5011-1611**

**SPECIAL ORDER ONLY** **MODEL 5011-1611-HDG**



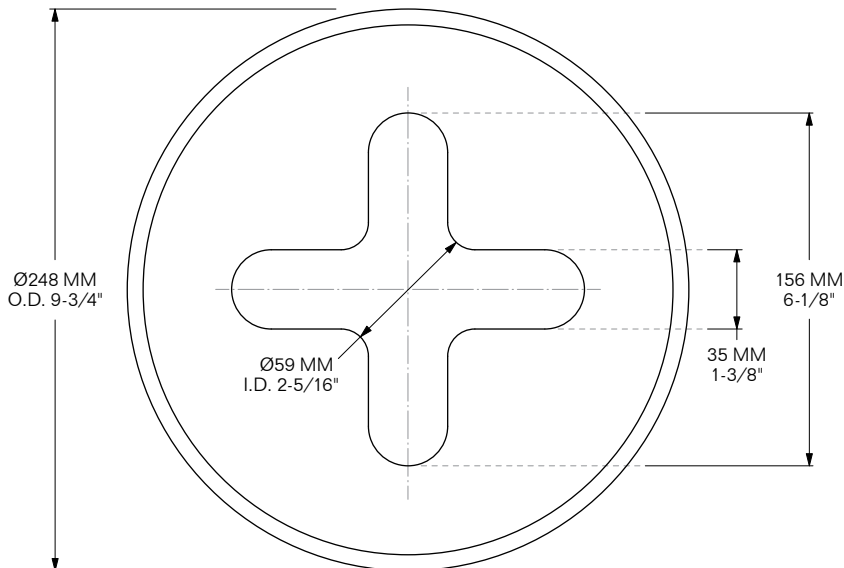
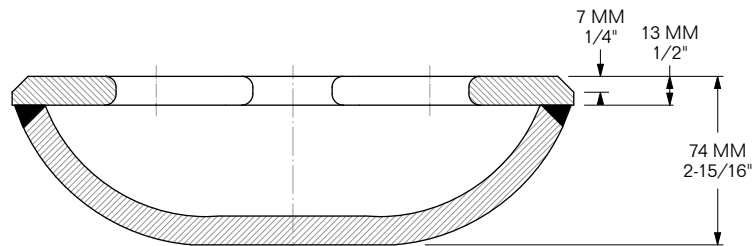
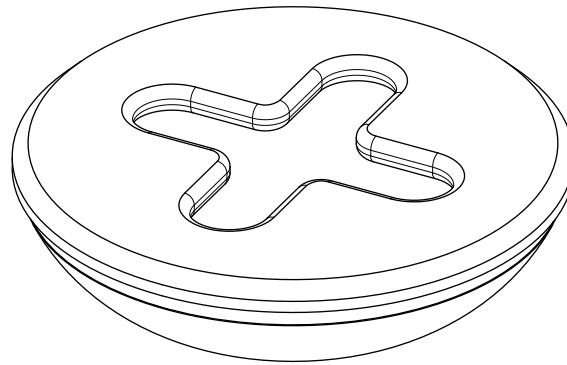
**SAFE WORKING LOAD (SWL): 16 M. TON**  
**MIN. B.L. STRENGTH: 32 M. TON**  
 Tested at 45° angle to slot.

**SUB FOR:** PECK & HALE F518-1  
**MATERIAL:** STEEL **FINISH:** PRIMER or HDG  
**WEIGHT:** 18.94 Kg / 41.75 LBS

**5011**



**MODEL 5011-2103**



**SAFE WORKING LOAD (SWL):** 7.1 M. TON

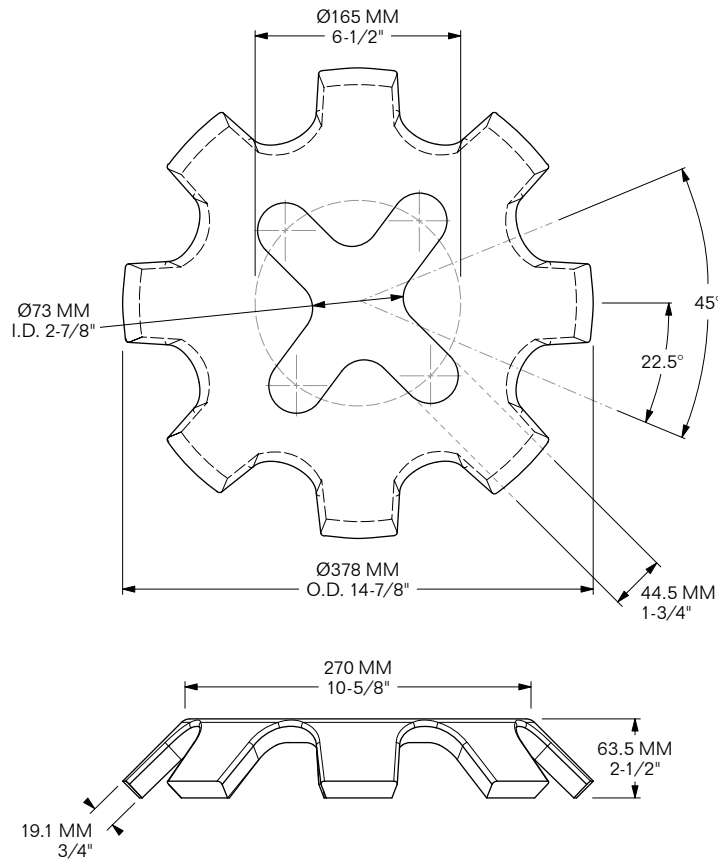
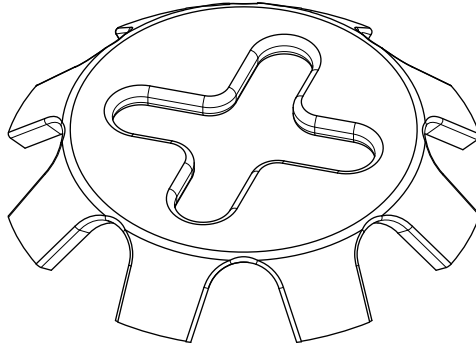
**MIN. B.L. STRENGTH:** 14.3 M. TON

Tested at 45° angle to slot.

**SUB FOR:** PECK & HALE 517-1E (F2500-1)  
**MATERIAL:** STEEL **FINISH:** WELDABLE PRIMER  
**WEIGHT:** 9.44 Kg / 20.8 LBS

5011

**SPECIAL ORDER ONLY MODEL 5011-1610**



**5011**

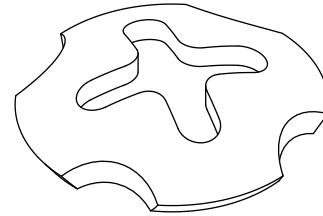
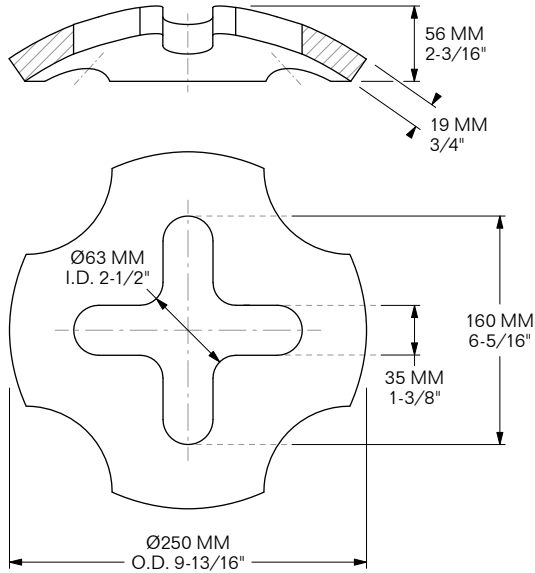
**MIN. B.S. STRENGTH: 31.75 M. TON**

**SUB FOR: PECK & HALE F266**  
**MATERIAL: CAST STEEL FINISH: WELDABLE PRIMER**  
**WEIGHT: 10.77 Kg / 23.75 LBS**



**MODEL 5011-2443**

**CONVEX**



**MIN. BREAK STRENGTH (MBS):**

31.75 M. TON / 70,000 LBS

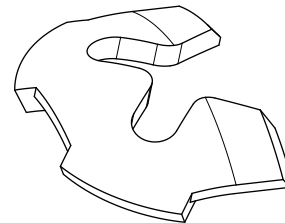
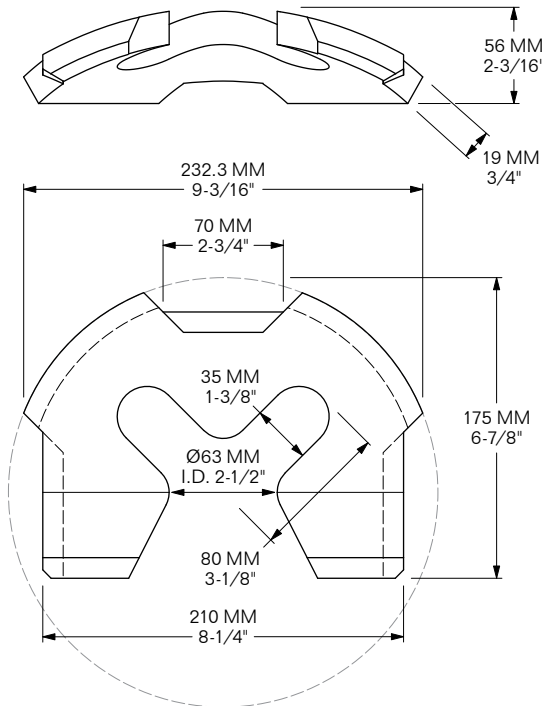
MBS tested at 45° angle to horizontal plane.

**MATERIAL:** STEEL  
**FINISH:** WELDABLE PRIMER  
**WEIGHT:** 5.3 Kg / 11.7 LBS

**5011**

**MODEL 5011-2444**

**HALF CONVEX**



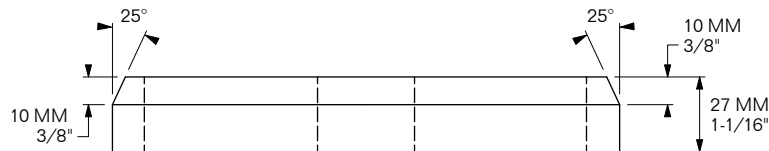
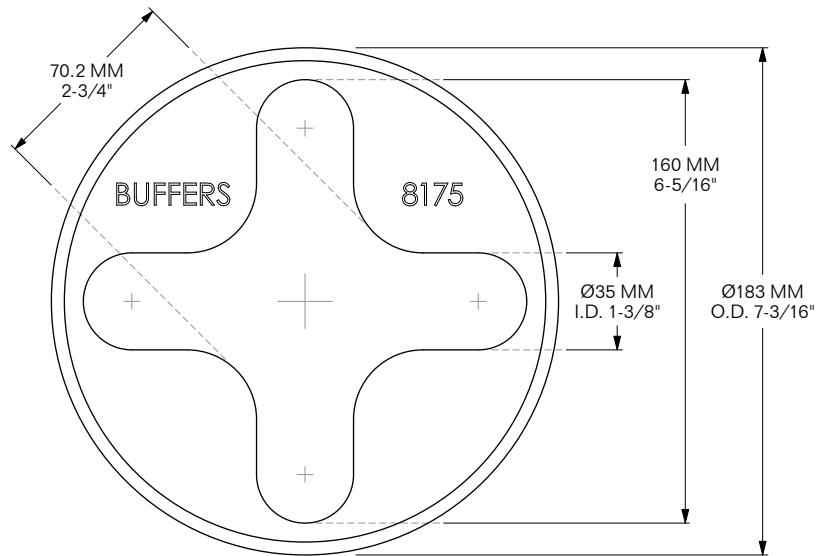
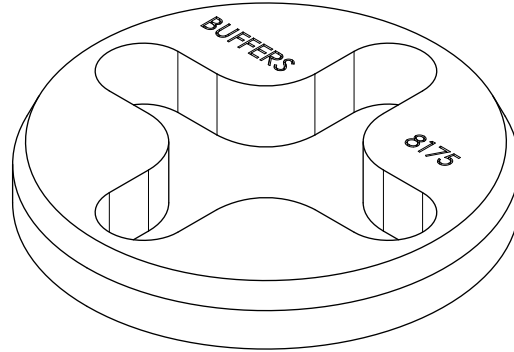
**MIN. BREAK STRENGTH (MBS):**

31.75 M. TON / 70,000 LBS

MBS tested at 45° angle to horizontal plane.

**MATERIAL:** STEEL  
**FINISH:** WELDABLE PRIMER  
**WEIGHT:** 3.83 Kg / 8.45 LBS

**SPECIAL ORDER ONLY MODEL 5011-8175**



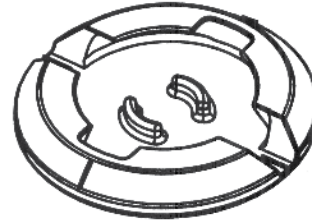
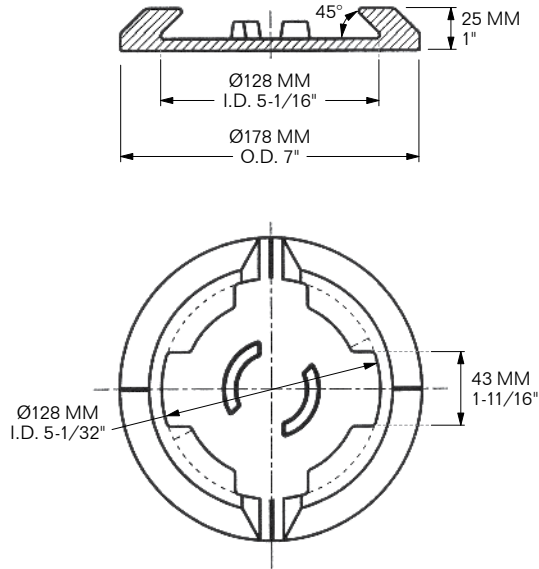
**MIN. BREAK STRENGTH (MBS):**  
32 M. TON / 70,540 LBS

**MATERIAL:** CAST STEEL  
**FINISH:** WELDABLE PRIMER  
**WEIGHT:** 3.15 Kg / 6.95 LBS

**5011**



**MODEL 5011-7812**  
**RAISED SOCKET FRAME**

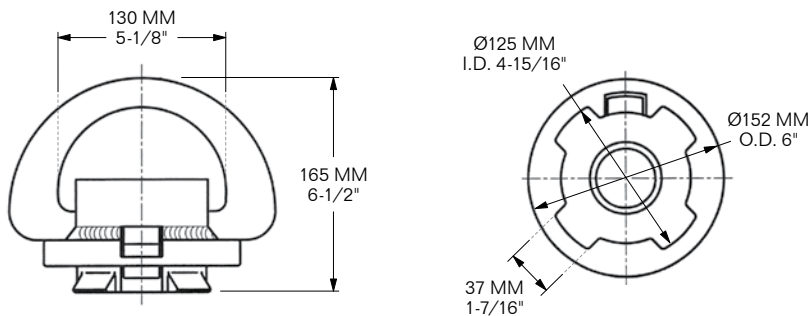


**MIN. B.L. TENSION: 50 M. TON**  
**MIN. B.L. SHEAR: 50 M. TON**  
**MIN. B.L. COMPRESSION: 150 M. TON**

**5011**

**SUB FOR:** PECK & HALE F655-1-0A  
**WORKS WITH:** BUFFERS 5005-7811-L/-R TWISTLOCK, 5012-7813 D-RING  
**MATERIAL:** CAST STEEL **FINISH:** WELDABLE PRIMER  
**WEIGHT:** 2.47 Kg / 5.45 LBS

**MODEL 5012-7813**  
**REMOVABLE D-RING**  
for Breech Base Socket

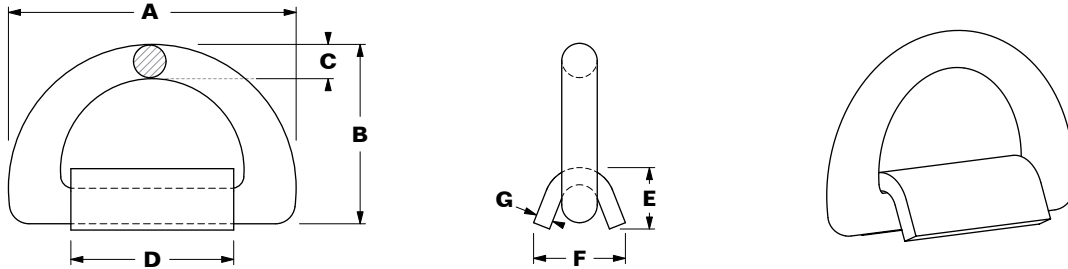


**MIN. BREAK STRENGTH (MBS): 36 M. TON / 79,300 LBS**

**SUB FOR:** PECK & HALE F678-36-1  
**WORKS WITH:** BUFFERS 5011-7812 SOCKET FRAME  
**MATERIAL:** STEEL **FINISH:** HOT-DIP GALVANIZED (HDG)  
**WEIGHT:** 6.7 Kg / 14.8 LBS



**MARINE TYPE D-RINGS**  
**NOTE: NOT FOR LIFTING**



MODEL-FINISH	DESC.	WEIGHT	SWL**	MBS***	D-RING DIMENSIONS			STRAP DIMENSIONS			
					A	B	C	D	E	F	G
2902-1160-1-SC	D-RING	0.34 Kg 0.75 LBS	907 Kg 2,000 LBS	2,722 Kg 6,000 LBS	120 MM 4-3/4"	74 MM 2-15/16"	14 MM 9/16"	87 MM 3-7/16"	25 MM 1"	32.5 MM 1-1/4"	7.1 MM 1/4"
2902-1160-2-HDG	STRAP	0.23 Kg 0.50 LBS									
2902-1160-2-SC	STRAP	0.23 Kg 0.50 LBS									
5012-EPL-ZA-5-1-HDG	D-RING	1.25 Kg 2.76 LBS	10 M. TON 22,045 LBS	20 M. TON 44,091 LBS	138 MM 5-7/16"	137 MM 5-7/16"	20 MM 25/32"	80 MM 3-1/8"	37 MM 1-1/2"	53 MM 2-1/16"	10 MM 13/32"
5012-EPL-ZA-5-1-PR	D-RING	1.20 Kg 2.65 LBS									
5012-EPL-ZA-5-2-HDG	STRAP	0.55 Kg 1.20 LBS									
5012-EPL-ZA-5-2-PR	STRAP	0.50 Kg 1.10 LBS									
5012-1854-1-HDG	D-RING	2.59 Kg 5.70 LBS	20.5 M. TON 45,195 LBS	41 M. TON 90,390 LBS	225 MM 8-7/8"	138 MM 5-7/16"	25.4 MM 1"	126 MM 4-15/16"	45.8 MM 1-13/16"	68.7 MM 2-11/16"	12 MM 1/2"
5012-1854-2-HDG	STRAP	1.32 Kg 2.92 LBS									
5012-7092-1-HDG	D-RING	3.60 Kg 7.93 LBS	25 M. TON 55,115 LBS	50 M. TON 110,231 LBS	240 MM 9-7/16"	151 MM 5-15/16"	32 MM 1-1/4"	140 MM 5-1/2"	50 MM 2"	73 MM 2-7/8"	14 MM 9/16"
5012-7092-1-PR	D-RING	3.52 Kg 7.75 LBS									
5012-7092-2-HDG	STRAP	1.38 Kg 3.05 LBS									
5012-7092-2-PR	STRAP	1.50 Kg 3.32 LBS									
5012-EPL-ZA-3-HDG	D-RING	4.26 Kg 9.4 LBS	25 M. TON 55,115 LBS	50 M. TON 110,231 LBS	248 MM 9-3/4"	155 MM 6-1/16"	REC-TANGULAR 27 W x 38 H MM  1-1/16" x 1-1/2"	120 MM 4-3/4"	47 MM 1-7/8"	69 MM 2-3/4"	15 MM 9/16"
5012-EPL-ZA-3-PR	D-RING	4.24 Kg 9.35 LBS									
5012-ZA-3-AS-PR	STRAP	1.36 Kg 3.00 LBS									

\*\* SAFE WORKING LOAD IS 50% OF MBS  
 \*\*\* MINIMUM BREAK STRENGTH IN METRIC TON

**FINISH:**

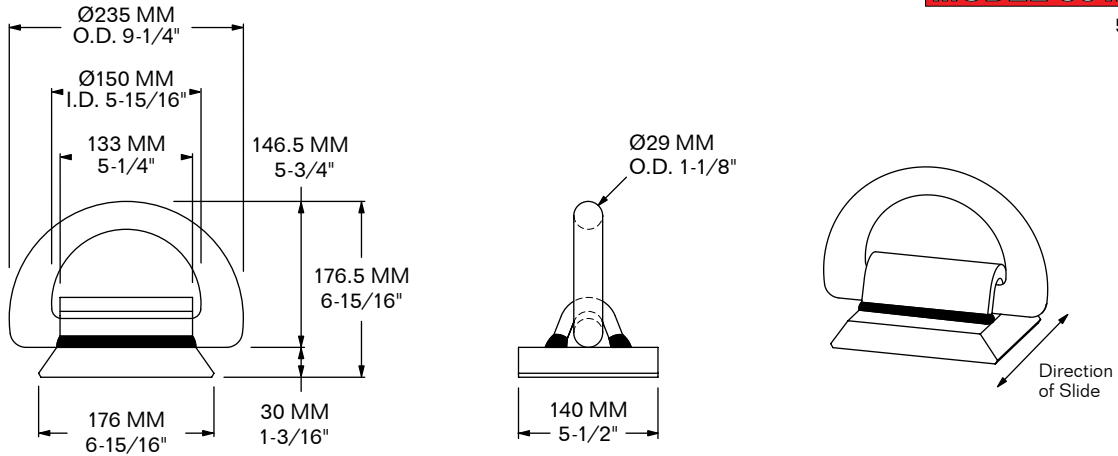
SC - Self-Color  
 HDG - Hot-Dip Galvanized  
 PR - Primer

5012



**MODEL 5012-2152**

**55° BASE**



**FITS INTO 55° DOVETAIL TWISTLOCK FRAME  
NOT MADE FOR LIFTING - FOR TIE-DOWN PURPOSES ONLY**

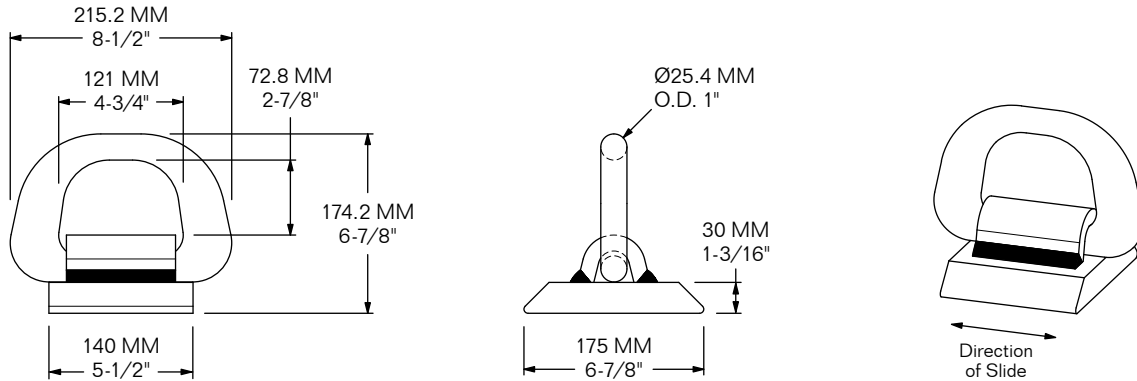
**MIN. B.L. TENSION: 40 M. TON  
MIN. B.L. SHEAR: 40 M. TON**

**MATERIAL: FORGED STEEL  
FINISH: HOT-DIP GALVANIZED  
WEIGHT: 9.6 Kg / 21.2 LBS**

**5012**

**MODEL 5012-2260**

**45° BASE**



**FITS INTO 45° D5A DOVETAIL TWISTLOCK FRAME  
NOT MADE FOR LIFTING - FOR TIE-DOWN PURPOSES ONLY**

**MIN. B.L. TENSION: 40 M. TON  
MIN. B.L. SHEAR: 40 M. TON**

**MATERIAL: STEEL / FORGED STEEL  
FINISH: HOT-DIP GALVANIZED / WELDABLE PRIMER  
WEIGHT: 11.1 Kg / 24.6 LBS**

**MODEL 5012-1668**  
**REMOVABLE D-RING**  
**w/ ISO FIXED BASE**  
 fits all Standard ISO Apertures

**SAFE WORKING LOAD (SWL):**  
20.5 M. TON / 45,200 LBS

**MIN. BREAK STRENGTH (MBS):**  
41 M. TON / 90,400 LBS

**MATERIAL:** STEEL  
**FINISH:** HOT-DIP GALVANIZED (HDG)  
**WEIGHT:** 8.8 Kg / 19.5 LBS

TOP VIEW

BOTTOM VIEW

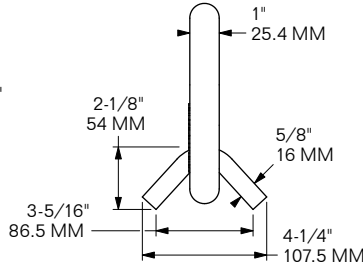
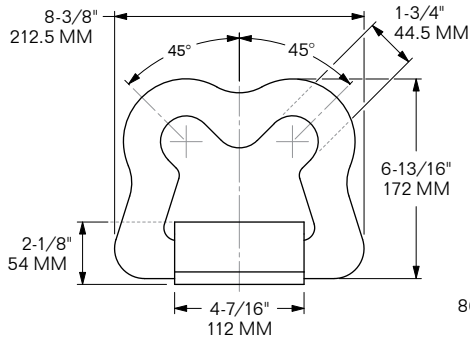
**MODEL 5012-1686**  
**REMOVABLE PADEYE w/ CLOVERLEAF BASE**  
 fits Cloverleaf Fitting  
 5011-1611 ONLY

SECTION A-A

**SAFE WORKING LOAD (SWL):** 6.125 M. TON / 13,500 LBS  
**PROOF LOAD:** 12.25 M. TON / 27,000 LBS  
**MIN. BREAK STRENGTH (MBS):** 24.5 M. TON / 54,000 LBS

**MATERIAL:** STEEL **FINISH:** HOT-DIP GALVANIZED (HDG)  
**WEIGHT:** 14.5 Kg / 31.9 LBS

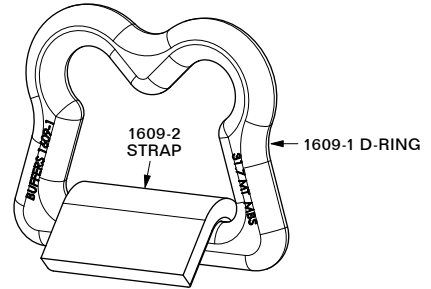
5012



**MODEL 5012-1609-1-HDG**

**MODEL 5012-1609-1-PR**  
**CLOVERLEAF D-RING**

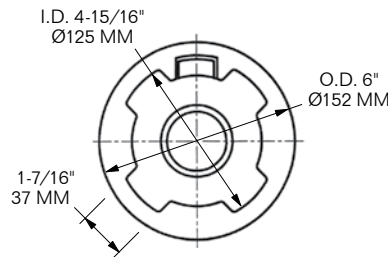
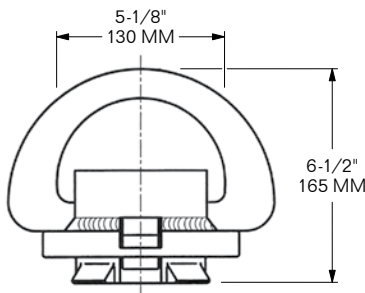
**MODEL 5012-1609-2-PR**  
**STRAP**



**MBS:** TENSION 31.7 M. TON / 69,800 LBS PULLED AT 45°

**SUB FOR:** PECK & HALE F198-1-3 **MATERIAL:** FORGED STEEL  
**FINISH:** HOT-DIP GALVANIZED (HDG) or PRIMER (PR)  
**WEIGHT:** D-RING: 6.86 LBS / 3.11 Kg; STRAP: 3.89 LBS / 1.77 Kg

**5012**



**SPECIAL ORDER ONLY**

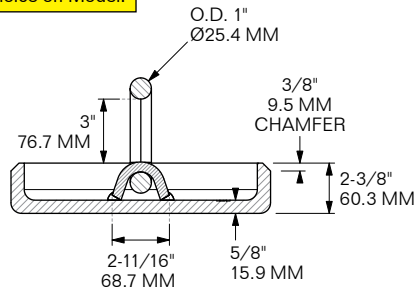
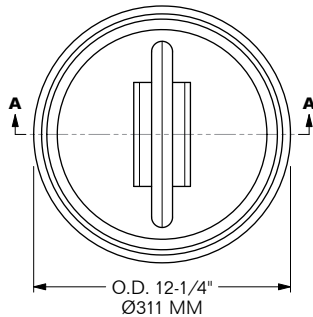
**MODEL 5012-7813**

**REMOVABLE D-RING** for  
4-Flange Breech Base Socket

**MBS:** TENSION 36 M. TON / 79,300 LBS

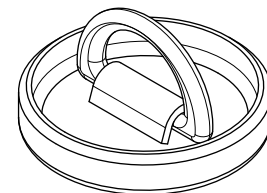
**SUB FOR:** PECK & HALE F678-36-1 **WORKS WITH:** 5011-7812 SOCKET FRAME  
**FINISH:** HOT DIPPED GALVANIZED (HDG) **WEIGHT:** 14.8 LBS / 6.7 Kg

**D-RING & STRAP SOLD SEPARATELY** - Customer's choice on Model.



**MODEL 5012-8080**

**D-RING BASE PAN**  
w/o D-Ring



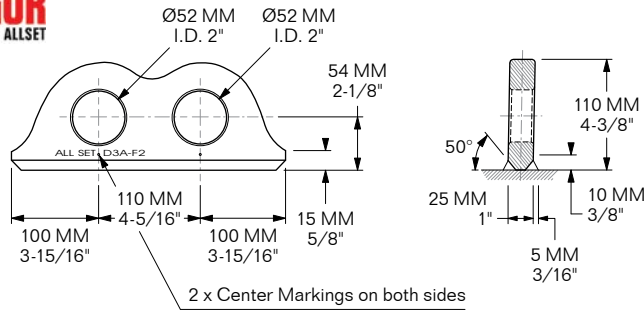
D-RING SHOWN FOR  
DESIGN PURPOSES ONLY

**MBS:** TENSION 20 M. TON / 44,000 LBS  
IF ONLY WELDED TO DECK AROUND EDGE

**MATERIAL:** CAST STEEL **FINISH:** BLACK PRIMER **WEIGHT:** 31.2 LBS / 14.15 Kg



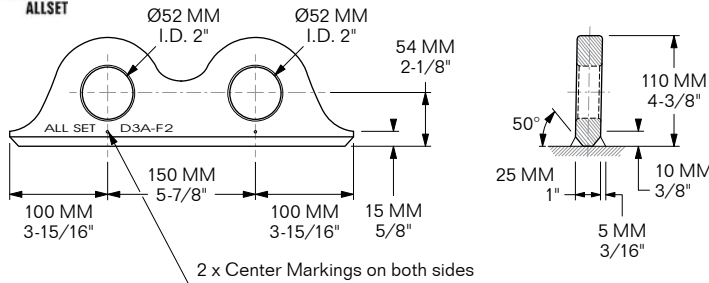
**MODEL 5012-D3A-F2-110**



**MATERIAL:** STEEL PLATE  
**FINISH:** GRAY PRIMER  
**WEIGHT:** 3.8 Kg / 8.4 LBS



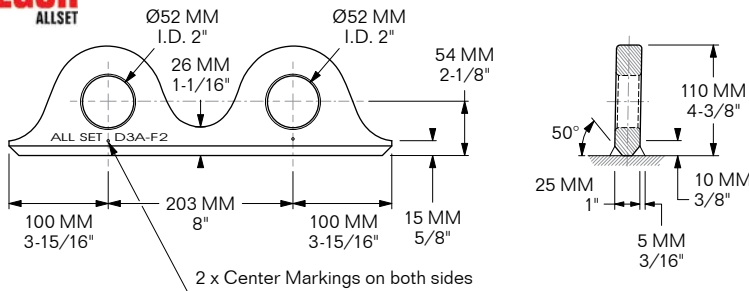
**MODEL 5012-D3A-F2-150**



**MATERIAL:** STEEL PLATE  
**FINISH:** GRAY PRIMER  
**WEIGHT:** 4.4 Kg / 9.7 LBS



**MODEL 5012-D3A-F2-203**

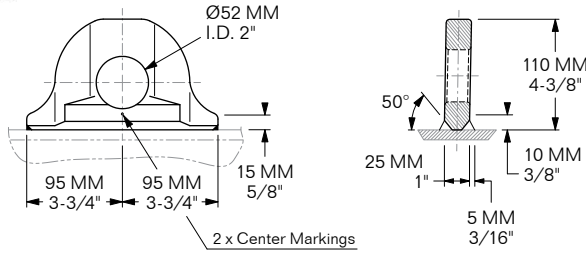


**MATERIAL:** STEEL PLATE  
**FINISH:** GRAY PRIMER  
**WEIGHT:** 4.5 Kg / 9.9 LBS

**5012**



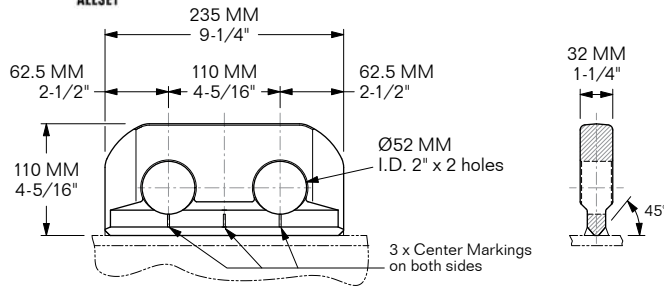
**MODEL 5012-ZP-11**



**SUB FOR:** MACGREGOR 1012760  
**MATERIAL:** STRUCTURAL STEEL  
**FINISH:** PRIMER  
**WEIGHT:** 2.2 Kg / 4.9 LBS



**MODEL 5012-ZP-12.1**



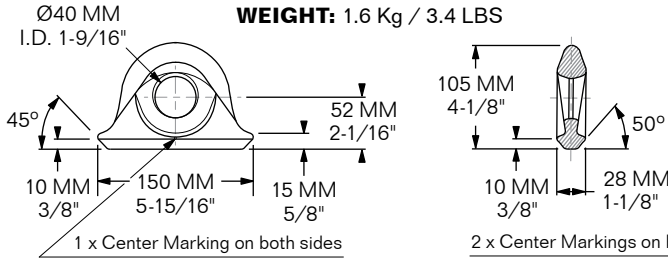
**SUB FOR:** MACGREGOR 1012769  
**MATERIAL:** STRUCTURAL STEEL  
**FINISH:** PRIMER  
**WEIGHT:** 4.2 Kg / 9.3 LBS

**5012**



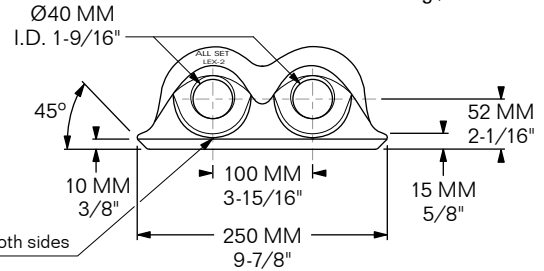
**MODEL 5012-LEX-1-P**

**MATERIAL:** FORGED STEEL  
**FINISH:** PRIMER  
**WEIGHT:** 1.6 Kg / 3.4 LBS

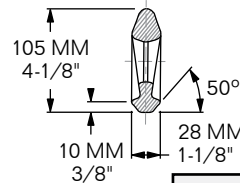
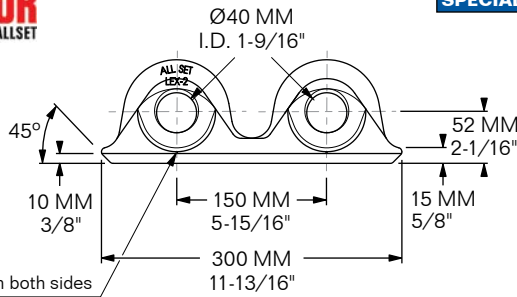


**MODEL 5012-LEX-2-100-P**

**MATERIAL:** FORGED STEEL **FINISH:** PRIMER  
**WEIGHT:** 3.3 Kg / 7.3 LBS



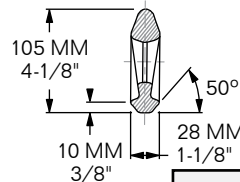
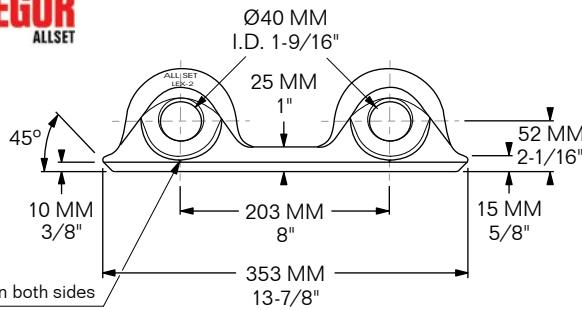
**SPECIAL ORDER ONLY MODEL 5012-LEX-2-150**



**MATERIAL:** FORGED STEEL  
**FINISH:** PRIMER  
**WEIGHT:** 3.8 Kg / 8.4 LBS



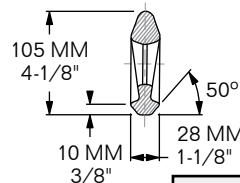
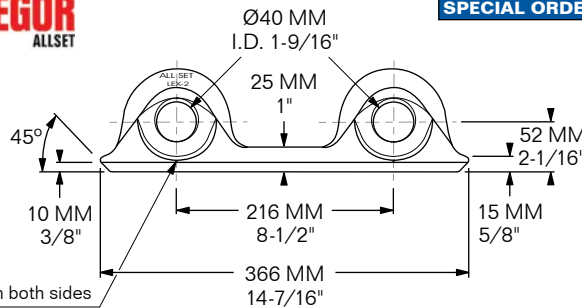
**MODEL 5012-LEX-2-203-P**



**MATERIAL:** FORGED STEEL  
**FINISH:** PRIMER  
**WEIGHT:** 4 Kg / 8.8 LBS



**SPECIAL ORDER ONLY MODEL 5012-LEX-2-216-P**



**MATERIAL:** FORGED STEEL  
**FINISH:** PRIMER  
**WEIGHT:** 4.1 Kg / 9 LBS

**5012**

**MACGREGOR** ALLSET

**SPECIAL ORDER ONLY** **MODEL 5012-LEX-3-P**

Ø40 MM  
I.D. 1-9/16"

52 MM  
2-1/16"

105 MM  
4-1/8"

10 MM  
3/8"

100 MM  
3-15/16"

100 MM  
3-15/16"

350 MM  
13-13/16"

15 MM  
5/8"

28 MM  
1-1/8"

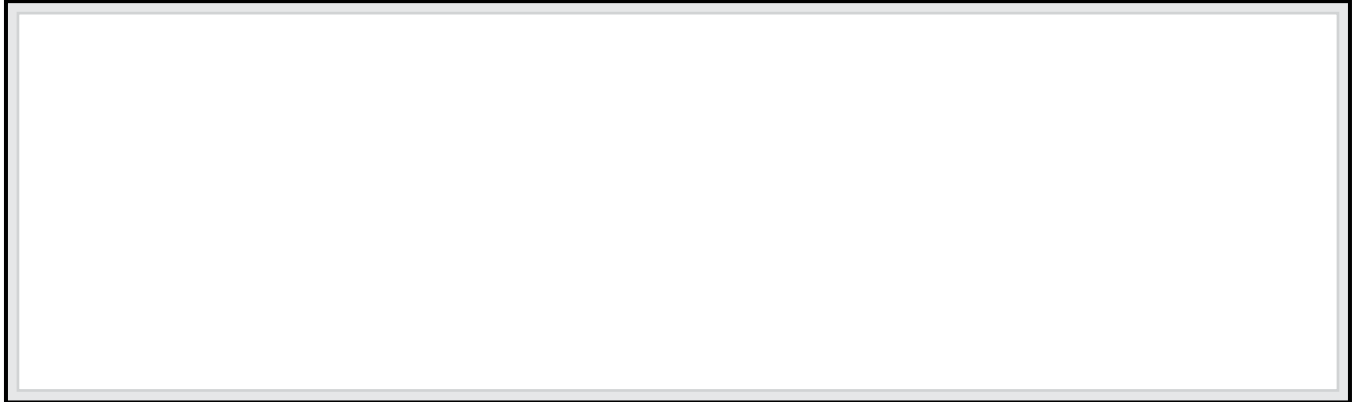
45°

50°

3 x Center Markings on both sides

**MATERIAL: FORGED STEEL FINISH: PRIMER**  
**WEIGHT: 5.1 Kg / 11.3 LBS**

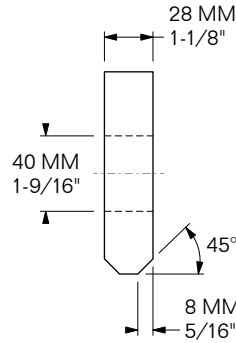
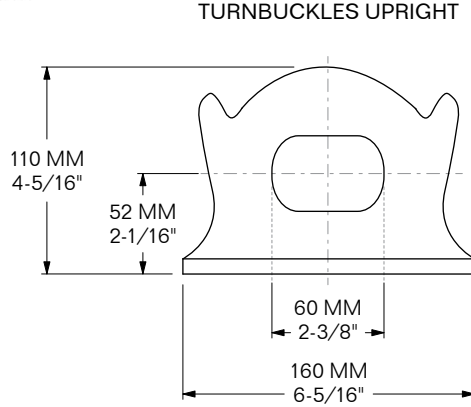
**5012**





#### MODEL 5012-ZP-1N-P

WITH "EARS" TO PARK  
TURNBUCKLES UPRIGHT



**MIN. B.S.:**  
50 M. TON

**SUB FOR:**  
1072091 (Old model),  
1120773 (New model)

**MATERIAL:**  
HIGH-TENSILE  
STEEL

**FINISH:**  
PRIMER

**WEIGHT:**  
2.4 Kg / 5.3 LBS

#### MODEL 5012-LE-2-100-P

#### MODEL 5012-LE-2-150-P

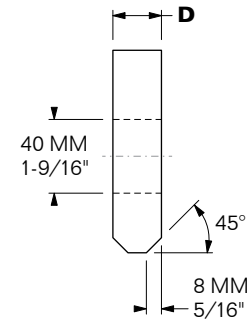
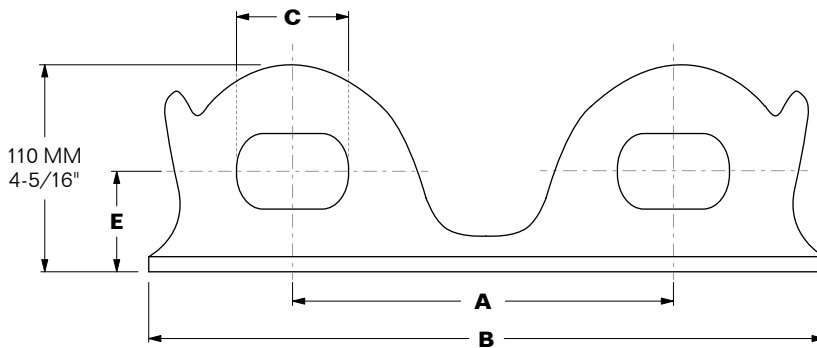
SPECIAL ORDER ONLY

#### MODEL 5012-LE-2-260-P

#### MODEL 5012-ZP-2N-203-P

#### MODEL 5012-ZP-2N-216-P

#### MODEL 5012-ZP-2N-260-P



MODEL	A	B	C	D	E	WEIGHT	SUB FOR
<b>5012-LE-2-100-P</b>	100 MM 3-15/16"	260 MM 10-1/4"	52 MM 2-1/16"	25 MM 15/16"	55 MM 2-3/16"	4.2 Kg 9.3 LBS	1120779
<b>5012-LE-2-150-P</b>	150 MM 5-7/8"	310 MM 12-3/16"	52 MM 2-1/16"	25 MM 15/16"	55 MM 2-3/16"	4.9 Kg 10.8 LBS	1120778, K-2126
<b>5012-LE-2-260-P</b>	260 MM 10-1/4"	420 MM 16-9/16"	54 MM 2-1/8"	25 MM 15/16"	55 MM 2-3/16"	5.1 Kg 11.3 LBS	1164076
<b>5012-ZP-2N-203-P</b>	203 MM 8"	363 MM 14-5/16"	60 MM 2-3/8"	28 MM 1-1/8"	52 MM 2-1/16"	5.1 Kg 11.2 LBS	1042140
<b>5012-ZP-2N-216-P</b>	216 MM 8-1/2"	376 MM 14-13/16"	60 MM 2-3/8"	28 MM 1-1/8"	52 MM 2-1/16"	5.2 Kg 11.5 LBS	1042141
<b>5012-ZP-2N-260-P</b>	260 MM 10-1/4"	420 MM 16-1/2"	60 MM 2-3/8"	28 MM 1-1/8"	52 MM 2-1/16"	4.5 Kg 10 LBS	1072088

**MIN. B.S.:**  
50 M. TON

**MATERIAL:**  
HIGH-TENSILE  
STEEL

**FINISH:**  
PRIMER

5012

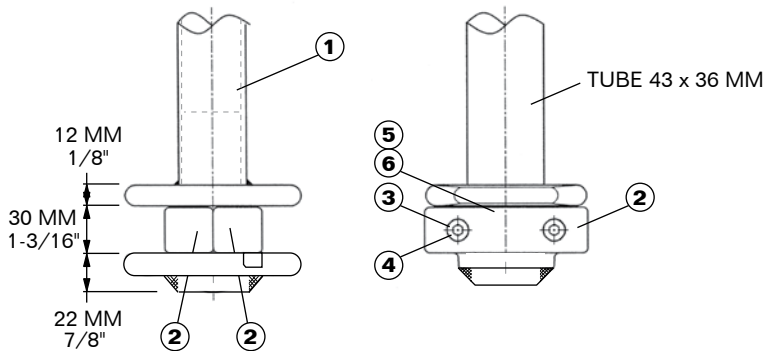
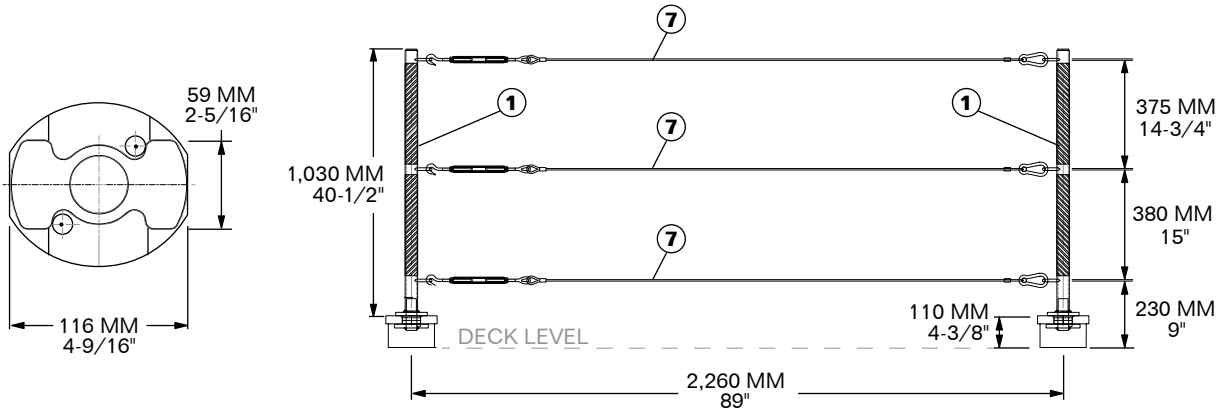






**MODEL 5014-SR-2**  
2-POLE, 3-WIRE

USED NEXT TO OPEN HATCH  
AS FALL PROTECTION



5014

ITEM	QTY	MODEL	DESCRIPTION	WEIGHT (EA.)
1	2	5014-SR-2/1-6	PIPE ASSEMBLY	3.20 Kg / 7.05 LBS
2	4	5006-C12C-1	SHEARBLOCK, HALF	0.32 Kg / 0.70 LBS
3	4	5006-C12C-2	SCREW MC6S 8 x 45	0.02 Kg / 0.05 LBS
4	4	1110-4519	HEX NUT M8	0.01 Kg / 0.02 LBS
5	2	1110-4501	DETENT BALL	0.01 Kg / 0.02 LBS
6	2	5002-C19A-5	DETENT SPRING	0.01 Kg / 0.01 LBS
7	3	5014-SR-2/7-12	CABLE ASSEMBLY w/ TURNBUCKLE	1.68 Kg / 3.70 LBS

**MACGREGOR #1226671**  
**WEIGHT: 15.42 Kg / 34 LBS**





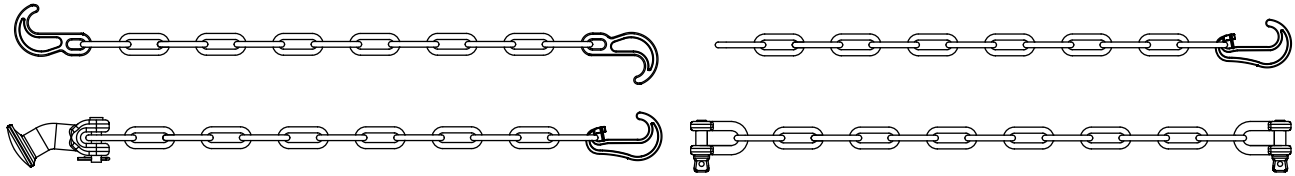
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RO-RO LONG LINK CHAIN  
& LASHING: **5101-5103**

**PAGE NUMBERS**

<b>5101-1</b>	LONG LINK CHAIN ASSEMBLIES
<b>5101-2</b>	LONG LINK CHAIN LASHING, EYE HOOKS & SPRINT HOOKS
<b>5101-3</b>	CHAIN LASHING FITTINGS (Binder Climbing Hook, Elephant Feet & Shackle)
<b>5101-4</b>	SCREW PIN ANCHOR SHACKLES
<b>5102-1</b>	CHAIN LOAD BINDERS & CHEATER BARS
<b>5102-2</b>	CHAIN TURNBUCKLES (Hook-Hook & Hook-Jaw)
<b>5102-3</b>	SPEED LASH CHAIN TENSIONERS (w/ Hook & w/ Elephant Foot)
<b>5103-1</b>	CHAIN TIE-DOWN FITTINGS (Chain Eye & Eye Hoist Hooks)
<b>5103-2</b>	CHAIN TIE-DOWN FITTINGS (Clevis Grab, Sling & Slip Hooks)
<b>5103-3</b>	CHAIN TIE-DOWN FITTINGS (Bulb Hooks & Elephant Foot)
<b>5103-4</b>	CHAIN TIE-DOWN FITTINGS (Connecting & Coupling Links)
<b>5103-5</b>	CHAIN TIE-DOWN ASSEMBLIES (17k MBS)
<b>5103-6</b>	CHAIN TIE-DOWN ASSEMBLIES (35k MBS)
<b>5103-7 to -10</b>	CHAIN TIE-DOWN ASSEMBLIES (70k MBS)

**5101**



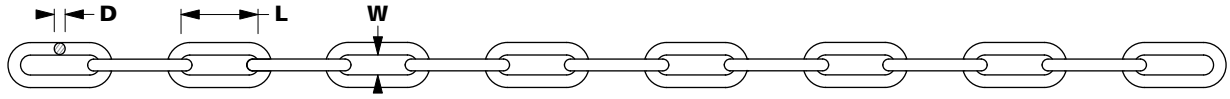


MODEL	DESCRIPTION	CHAIN DIA.	LENGTH	WEIGHT
5101-11-X-3000-H/H	SPRINT HOOK / SPRINT HOOK	11 MM	3 M / 9.9'	7.6 Kg / 16.8 LBS
5101-11-X-3500-EH/EF	EYE HOOK / ELEPHANT FOOT	11 MM	3.5 M / 11.5'	9.5 Kg / 20.9 LBS
5101-11-X-3500-EH/EH	EYE HOOK / EYE HOOK	11 MM	3.5 M / 11.5'	9.3 Kg / 20.6 LBS
5101-11-X-3500-SH/EF	SPRINT HOOK / ELEPHANT FOOT	11 MM	3.5 M / 11.5'	9.5 Kg / 20.9 LBS
5101-11-X-3500-SH/SH	SPRINT HOOK / SPRINT HOOK	11 MM	3.5 M / 11.5'	9.2 Kg / 20.3 LBS
5101-2051	EYE HOOK / EYE HOOK	11 MM	3.5 M / 11.5'	9.3 Kg / 20.5 LBS
5101-2052	EYE HOOK / ELEPHANT FOOT	11 MM	3.5 M / 11.5'	9.2 Kg / 20.3 LBS
5101-11-X-4500-SH/SH	SPRINT HOOK / SPRINT HOOK	11 MM	4.5 M / 14.8'	9.2 Kg / 20.3 LBS
5101-11-X-6100-SH/SH	SPRINT HOOK / SPRINT HOOK	11 MM	6.1 M / 20'	14.5 Kg / 31.9 LBS
5101-13-X-1300-S/S	SHACKLE / SHACKLE	13 MM	1.3 M / 4.3'	4.8 Kg / 10.6 LBS
5101-13-X-1500-SH/S	SPRINT HOOK / SHACKLE	13 MM	1.5 M / 4.9'	5.9 Kg / 13 LBS
5101-13-X-2100-SH/S	SPRINT HOOK / SHACKLE	13 MM	2.1 M / 6.9'	7.6 Kg / 16.8 LBS
5101-13-X-2430	NO HOOKS	13 MM	2.4 M / 8'	6.9 Kg / 15.2 LBS
5101-13-X-2500-EF/-	ELEPHANT FOOT on one end only	13 MM	2.5 M / 8.2'	8.1 Kg / 17.8 LBS
5101-13-X-2850-H/-	HOOK on one end only	13 MM	2.9 M / 9.4'	9.1 Kg / 20.1 LBS
5101-13-X-3000	NO HOOKS	13 MM	3 M / 9.9'	8.7 Kg / 19.1 LBS
5101-13-X-3000-H/-	HOOK on one end only	13 MM	3 M / 9.9'	9.6 Kg / 21.2 LBS
5101-13-X-3000-H/EF	HOOK / ELEPHANT FOOT	13 MM	3 M / 9.9'	10.6 Kg / 23.4 LBS
5101-13-X-3000-H/H	HOOK / HOOK	13 MM	3 M / 9.9'	10.7 Kg / 23.6 LBS
5101-13-X-3500-EH/EH	EYE HOOK / EYE HOOK	13 MM	3.5 M / 11.5'	12.1 Kg / 26.7 LBS
5101-13-X-3500-H/-	HOOK on one end only	13 MM	3.5 M / 11.5'	11 Kg / 24.3 LBS
5101-13-X-3500-H/EF	HOOK / ELEPHANT FOOT	13 MM	3.5 M / 11.5'	12 Kg / 26.5 LBS
5101-13-X-3500-H/H	HOOK / HOOK	13 MM	3.5 M / 11.5'	12.1 Kg / 26.7 LBS
5101-13-X-3700-H/EF	HOOK / ELEPHANT FOOT	13 MM	3.7 M / 12.2'	12.6 Kg / 27.7 LBS
5101-13-X-4000-H/H	HOOK / HOOK	13 MM	4 M / 13.1'	13.5 Kg / 29.8 LBS
5101-13-X-4000-SH/EF	SPRINT HOOK / ELEPHANT FOOT	13 MM	4 M / 13.1'	13.4 Kg / 29.6 LBS
5101-13-X-4000-SH/SH	SPRINT HOOK / SPRINT HOOK	13 MM	4 M / 13.1'	13.5 Kg / 29.8 LBS
5101-13-X-4000-SH/SK	SPRINT HOOK / SHACKLE	13 MM	4 M / 13.1'	13.1 Kg / 28.9 LBS
5101-13-X-4400-SH/EF	SPRINT HOOK / ELEPHANT FOOT	13 MM	4.4 M / 14.5'	14.6 Kg / 32.1 LBS
5101-13-X-4500-SH/SH	SPRINT HOOK / SPRINT HOOK	13 MM	4.5 M / 14.8'	14.9 Kg / 32.9 LBS
5101-13-X-4900-H/H	HOOK / HOOK	13 MM	4.9 M / 16.1'	16.2 Kg / 35.6 LBS
5101-13-X-5000-H/H	SPRINT HOOK / SPRINT HOOK	13 MM	5 M / 16.5'	16.1 Kg / 35.5 LBS
5101-13-X-5000-SH/-	SPRINT HOOK on one end only	13 MM	5 M / 16.5'	18.1 Kg / 39.9 LBS
5101-13-X-5500-SH/-	SPRINT HOOK on one end only	13 MM	5.5 M / 18'	16.1 Kg / 35.5 LBS
5101-13-X-5500-SH/SH	SPRINT HOOK / SPRINT HOOK	13 MM	5.5 M / 18'	17.8 Kg / 39.2 LBS
5101-13-X-5520-NH	NO HOOKS	13 MM	5.52 M / 18.1'	15.8 Kg / 34.9 LBS
5101-13-X-5840-NH	NO HOOKS	13 MM	5.84 M / 19.2'	16.9 Kg / 37.4 LBS
5101-13-X-6000-SH/EF	SPRINT HOOK / ELEPHANT FOOT	13 MM	6 M / 19.8'	19.1 Kg / 42.2 LBS
5101-13-X-6000-SH/SH	SPRINT HOOK / SPRINT HOOK	13 MM	6 M / 19.8'	19.2 Kg / 42.4 LBS
5101-13-X-6100-EH/EH	EYE HOOK / EYE HOOK	13 MM	6.1 M / 20'	19.5 Kg / 42.9 LBS
5101-13-X-6100-SH/-	SPRINT HOOK on one end only	13 MM	6.1 M / 20'	18.6 Kg / 40.9 LBS
5101-13-X-6100-SH/SH	SPRINT HOOK / SPRINT HOOK	13 MM	6.1 M / 20'	19.5 Kg / 43.1 LBS
5101-13-X-6500-H/-	HOOK on one end only	13 MM	6.5 M / 21.4'	19.7 Kg / 43.4 LBS
5101-13-X-6500-H/H	HOOK / HOOK	13 MM	6.5 M / 21.4'	20.6 Kg / 45.4 LBS
5101-13-X-7000-SH/EF	SPRINT HOOK / ELEPHANT FOOT	13 MM	7 M / 23'	21.9 Kg / 48.4 LBS
5101-13-X-7000-SH/SH	SPRINT HOOK / SPRINT HOOK	13 MM	7 M / 23'	22 Kg / 48.6 LBS
5101-13-X-9000-SH/SH	SPRINT HOOK / SPRINT HOOK	13 MM	9 M / 29.6'	27.7 Kg / 61.1 LBS
5101-13-X-9100-SH/SH	SPRINT HOOK / SPRINT HOOK	13 MM	9.15 M / 30'	28.1 Kg / 61.9 LBS
5101-13-X-10000-H/H	SPRINT HOOK / SPRINT HOOK	13 MM	10 M / 32.9'	30.5 Kg / 67.3 LBS
5101-13-X-11000-SH/SH	SPRINT HOOK / SPRINT HOOK	13 MM	11 M / 36.2'	33.3 Kg / 73.6 LBS
5101-13-X-12000-H/H	SPRINT HOOK / SPRINT HOOK	13 MM	12 M / 39.5'	36.2 Kg / 79.8 LBS

**SPECIAL ORDER ONLY**

**NOTE:** LENGTH IS MEASURED FROM PRESSURE POINT TO PRESSURE POINT  
**11 MM MBS:** 15 M. TON **13 MM MBS:** 20 M. TON

**5101**



MODEL	INSIDE LINK SIZE			WEIGHT LBS / FT	WLL (M. TON)	MBS (M. TON)
	D	L	W			
<b>MODEL 5101-2089</b>	9 MM	55 MM	17 MM	1	2.5	10.2
<b>MODEL 5101-2091</b>	11 MM	65 MM	20 MM	1.4	4	15
<b>MODEL 5101-2093</b>	13 MM	80 MM	22 MM	1.9	5	20
<b>MODEL 5101-2096-GRE</b>	16 MM	100 MM	26 MM	2.95	7.6	30.5
<b>MODEL 5101-2096-WHT</b>	16 MM	100 MM	26 MM	2.95	7.6	30.5
<b>MODEL 5101-2096-ORG</b>	16 MM	100 MM	26 MM	2.95	7.6	30.5
<b>MODEL 5101-2096-ZNC</b>	16 MM	100 MM	26 MM	2.95	7.6	30.5
<b>MODEL 5101-2096-BLU</b>	16 MM	100 MM	26 MM	2.95	7.6	30.5
<b>MODEL 5101-2096-RED</b>	16 MM	100 MM	26 MM	2.95	7.6	30.5
<b>MODEL 5101-2096-66</b>	16 MM	66 MM	27 MM	4.4	7.6	30.5
<b>MODEL 5101-2106-HDG</b>	18 MM	98 MM	24 MM	3.34	8.15	32.6

**SPECIAL ORDER ONLY**

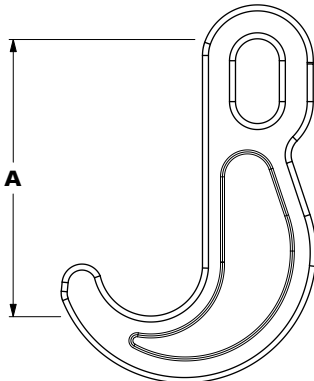
5101

**MODEL 5101-2017**

**13 MM EYE HOOK**  
**MBS:** 20 M. TON  
**A:** 140 MM / 5-1/2"  
**HOOK COLOR:** ORANGE  
**WEIGHT:** 1.1 Kg / 2.4 LBS

**MODEL 5101-2097**

**11 MM EYE HOOK**  
**MBS:** 15 M. TON  
**A:** 118 MM / 4-5/8"  
**WEIGHT:** 0.86 Kg / 1.9 LBS

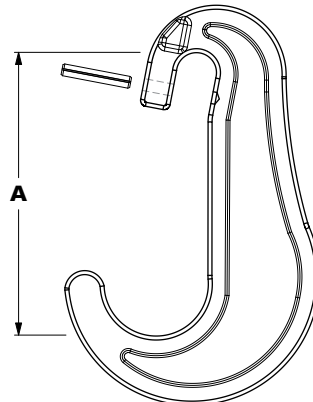


**MODEL 5101-2018**

**13 MM SPRINT HOOK**  
**MBS:** 20 M. TON  
**A:** 143 MM / 5-5/8"  
**WEIGHT:** 1.1 Kg / 2.4 LBS

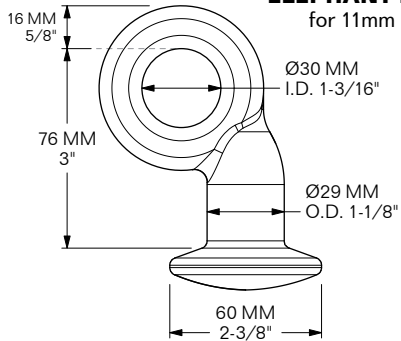
**MODEL 5101-2098**

**11 MM SPRINT HOOK**  
**MBS:** 15 M. TON  
**A:** 121 MM / 4-3/4"  
**HOOK COLOR:** BLUE  
**WEIGHT:** 0.86 Kg / 1.9 LBS



### MODEL 5101-2012

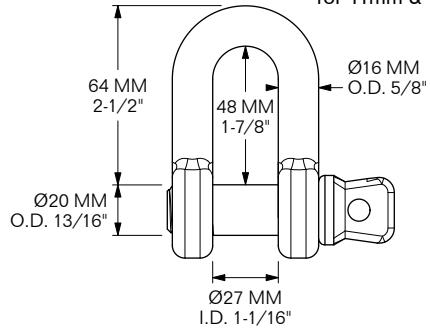
**ELEPHANT FOOT w/ Eye**  
for 11mm & 13mm Chain



**MBS: 20 M. TON MATERIAL: ALLOY STEEL**  
**FINISH: PAINTED WEIGHT: 0.68 Kg / 1.5 LBS**

### MODEL 5101-2013

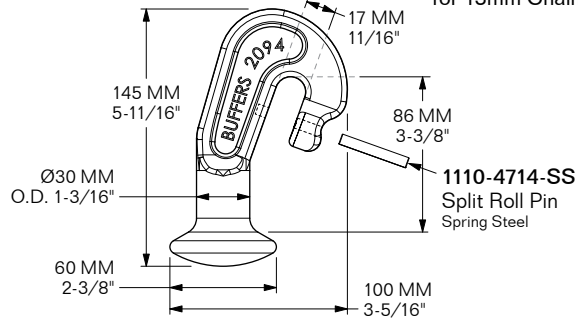
**SHACKLE w/ Screw Pin**  
for 11mm & 13mm Chain



**MBS: 20 M. TON WEIGHT: 0.57 Kg / 1.25 LBS**

### MODEL 5101-2094

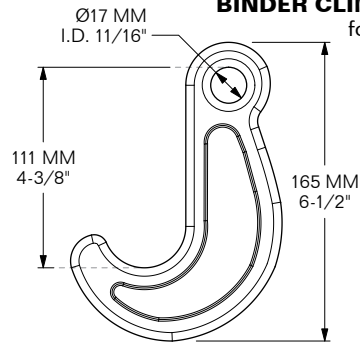
**SPRINT ELEPHANT FOOT**  
for 13mm Chain



**MBS: 20 M. TON MATERIAL: ALLOY STEEL**  
**FINISH: PAINTED ORANGE WEIGHT: 1.06 Kg / 2.34 LBS**

### MODEL 5101-2095

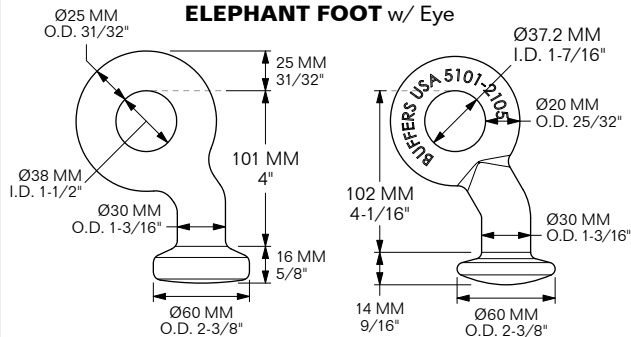
**BINDER CLIMBING HOOK**  
for 11mm & 13mm Chain Tensioner



**MBS: 20 M. TON MATERIAL: ALLOY STEEL**  
**FINISH: PAINTED ORANGE WEIGHT: 0.85 Kg / 1.84 LBS**

### MODEL 5101-G-9/50 MODEL 5101-2105

**ELEPHANT FOOT w/ Eye**

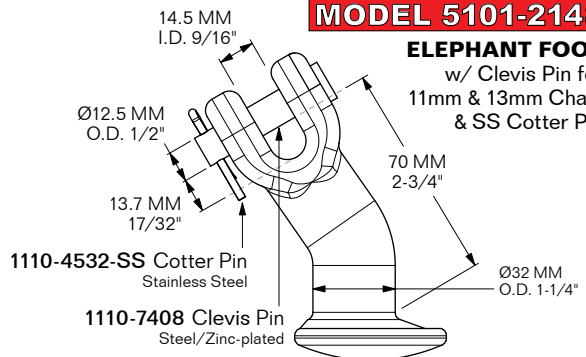


**MBS: 50 M. TON MATERIAL: STEEL**  
**FINISH: HDG WEIGHT: 1.49 Kg / 3.28 LBS**

**MBS: 36 M. TON MATERIAL: STEEL**  
**FINISH: HDG WEIGHT: 1.07 Kg / 2.35 LBS**

### MODEL 5101-2148

**ELEPHANT FOOT**  
w/ Clevis Pin for 11mm & 13mm Chain & SS Cotter Pin



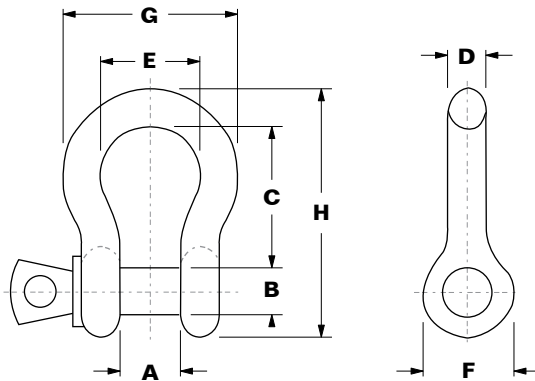
**MBS: 20 M. TON MATERIAL: ALLOY STEEL**  
**FINISH: POWDER-COATED ORANGE WEIGHT: 1.13 Kg / 2.5 LBS**

5101





- Capacities range from 0.5 to 35 metric tons WLL.
- Forged, quenched and tempered with alloy steel pins.
- Working load limit and grade 6 permanently shown on every shackle.
- Hot-dip galvanized.
- Fatigue tested and 100% magnaflux crack tested.
- Manufactured for use from -20° C (-4° F) to 204° C (400° F).
- All shackles are quenched and tempered and meet impact test requirements of 27 joules (20 ft. lbs.) at -20° C (-4° F).
- Meets or exceeds all requirements of ASME B30.26.
- Each manufacturing batch is sample-tested to proofload and minimum break strength.
- Material and mechanical test certificate available upon request.
- Meets or exceeds Fed. Spec. RR-C-271F type IVA Class 2.
- Proof load is 2x WLL.
- MBS is min. 6x WLL.
- Sizes 1/4" to 1-3/4" meet performance requirements of EN13889:2003.



5101

Nom. Size	WLL M. Ton	WLL LBS	WLL Ton	PART #	WEIGHT (ea.) LBS / Kg	DIMENSIONS										Tolerance +/-	
						A +/-	B min	C +/-	D min	E min	F max	G Ref.	H Ref.	A	C		
1/4"	0.5	1,102	0.55	<b>5101-ASP-1/4-0.50MT</b>	0.11 / 0.05	0.47	0.3	1.13	0.24	0.75	0.87	1.3	1.9	0.06	0.06		
5/16"	0.75	1,653	0.83	<b>5101-ASP-5/16-0.75MT</b>	0.2 / 0.09	0.53	0.36	1.25	0.3	0.82	1	1.5	2.13	0.06	0.06		
3/8"	1	2,204	1.1	<b>5101-ASP-3/8-1.00MT</b>	0.33 / 0.15	0.66	0.43	1.44	0.36	0.94	1.12	1.8	2.47	0.06	0.13		
7/16"	1.5	3,307	1.65	<b>5101-ASP-7/16-1.50MT</b>	0.4 / 0.18	0.75	0.49	1.69	0.42	1.07	1.25	2.05	2.95	0.06	0.13		
1/2"	2	4,409	2.2	<b>5101-ASP-1/2-2.00MT</b>	0.75 / 0.34	0.81	0.61	1.88	0.48	1.19	1.37	2.38	3.28	0.06	0.13		
5/8"	3.25	8,267	4.13	<b>5101-ASP-5/8-3.25MT</b>	1.39 / 0.63	1.06	0.73	2.38	0.59	1.5	1.87	3.05	4.16	0.06	0.13		
3/4"	4.75	10,472	5.24	<b>5101-ASP-3/4-4.75MT</b>	2.27 / 1.03	1.25	0.85	2.82	0.71	1.75	2.12	3.55	5	0.06	0.25		
7/8"	6.5	14,330	7.17	<b>5101-ASP-7/8-6.50MT</b>	3.65 / 1.66	1.44	0.98	3.32	0.83	2	2.37	4.21	5.8	0.06	0.25		
1"	8.5	18,739	9.37	<b>5101-ASP-1-8.50MT</b>	5.4 / 2.45	1.7	1.1	3.75	0.95	2.32	2.62	4.8	6.5	0.06	0.25		
1-1/8"	9.5	20,944	10.47	<b>5101-ASP-1-1/8-9.50MT</b>	7.45 / 3.38	1.81	1.22	4.25	1.07	2.63	2.87	5.18	7.46	0.06	0.25		
1-1/4"	12	26,455	13.23	<b>5101-ASP-1-1/4-12.00MT</b>	10.98 / 4.98	2.03	1.34	4.69	1.19	2.88	3.25	5.77	8.27	0.06	0.25		
1-3/8"	13.5	29,762	14.88	<b>5101-ASP-1-3/8-13.50MT</b>	13.45 / 6.1	2.25	1.46	5.25	1.31	3.25	3.5	6.4	9.15	0.06	0.25		
1-1/2"	17	37,478	18.74	<b>5101-ASP-1-1/2-17.00MT</b>	17.8 / 8.08	2.4	1.58	5.76	1.42	3.38	3.75	7.08	9.9	0.06	0.25		
1-3/4"	25	55,115	27.56	<b>5101-ASP-1-3/4-25.00MT</b>	35.4 / 16.06	2.88	1.95	7	1.66	4.5	4.5	8.9	12.3	0.13	0.25		
2"	35	77,160	38.58	<b>5101-ASP-2-35.00MT</b>	48.2 / 21.86	3.25	2.19	7.75	1.9	5.25	5.25	10.05	13.65	0.13	0.25		

T = short ton = 2,000 lbs / 0.91 metric ton

**MODEL 5102-2059**  
**13 MM CHAIN LOAD BINDER, Lever type**  
**MBS: 20 M. TON**  
**MATERIAL: FORGED STEEL**  
**FINISH: PAINTED ORANGE**  
**WEIGHT: 5.38 Kg / 11.85 LBS**

**MODEL 5102-2153**  
**11 MM CHAIN LOAD BINDER, Lever type**  
**MBS: 15 M. TON**  
**MATERIAL: FORGED STEEL**  
**FINISH: PAINTED DARK BLUE**  
**WEIGHT: 4.44 Kg / 9.8 LBS**

**MODEL 5102-1475-KIT**  
**BINDER HOLD CHAIN**  
w/ Hook & Shackle

Supplied w/ 5101-ASP-5/16-0.75MT  
5/16" Screw Pin Anchor Shackle, HDG

5102-1475 20" Hold Chain Assembly  
w/ S-Hook for 11 & 13mm Binder;  
24" w/ Hook

**WEIGHT: 1.27 Kg / 2.8 LBS**

**MODEL 5102-2348**  
**CHEATER/EXTENDER BAR**  
for L-13 Load Binder  
Heavy Duty

270 MM  
10-5/8"

Ø35 MM / 1-3/8" O.D.  
x 5 MM / 3/16" Wall Tubing

915 MM  
36"

**MATERIAL: HOT-DIP GALVANIZED (HDG)**  
**WEIGHT: 4.21 Kg / 9.28 LBS**

5102

**MODEL 5102-2380**  
**LOAD BINDER CHEATER BAR /**  
**Extension Handle for Tension Lever**  
Standard Duty

280 MM  
11"

27 MM  
1-1/16"

Ø28 MM / 1-1/8" O.D.  
x 3 MM / 1/8" Wall Tubing

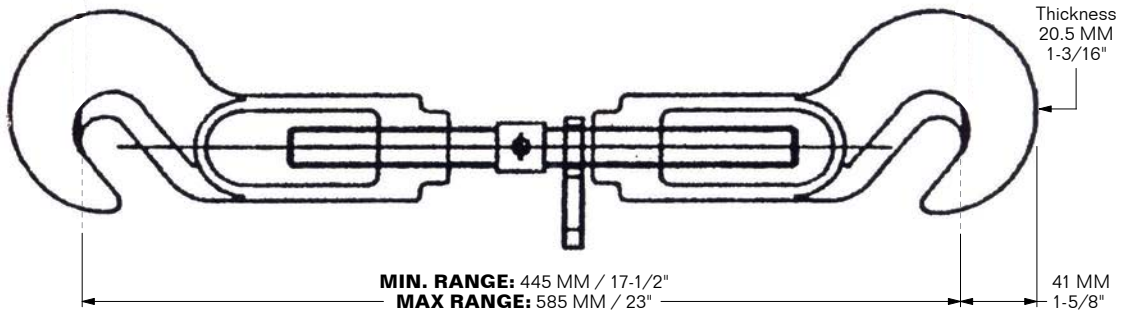
880 MM  
34-5/8"

**MATERIAL: HOT-DIP GALVANIZED (HDG)**  
**WEIGHT: 2.65 Kg / 5.85 LBS**



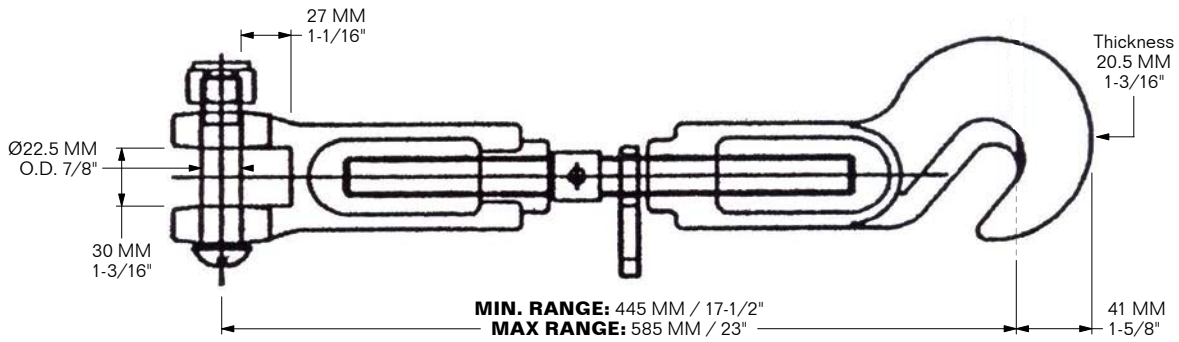
**MODEL 5102-L13-TB-H/H-1022**

**HOOK-HOOK TURNBUCKLE**  
for 13mm Chain



**MODEL 5102-L13-TB-H/J-1021**

**HOOK-JAW TURNBUCKLE**  
for 13mm Chain



**5102**

**MBS: 20 M. TON**

**MATERIAL: FORGED STEEL FINISH: HOT-DIP GALVANIZED (HDG)**  
**WEIGHT: 5.04 Kg / 11.1 LBS (ea. model)**

**OPERATING TOOL: ROUND ROD 1/2" x 12" w/ 1" HEAD (MODEL 5101-6371)**



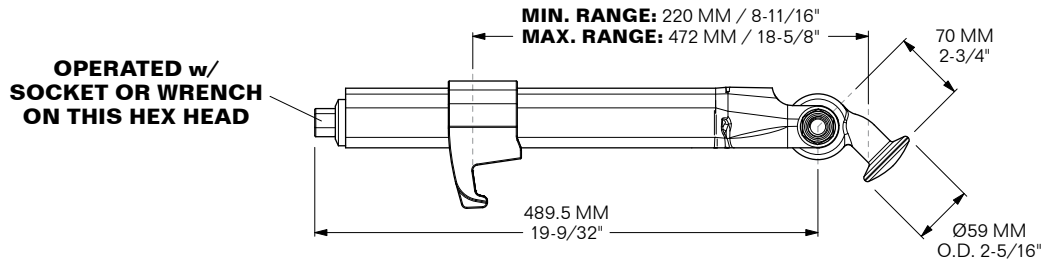


# SPEED LASH CHAIN TENSIONERS

for 11 mm – 13 mm LONG LINK CHAIN

## MODEL 5102-2909

**SPEED LASH w/  
ELEPHANT FOOT**  
10" Take-Up



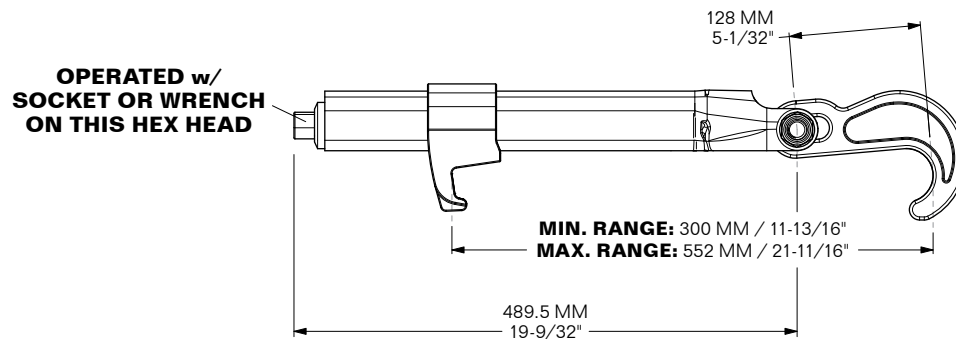
**MBS: 20 M. TON**

**MATERIAL: STEEL**  
**FINISH: HOT-DIP GALVANIZED (HDG) / PAINTED**  
**WEIGHT: 7.26 Kg / 16 LBS**

- Suitable for 11mm – 13mm Chain
- Designed to meet requirements in the CSS Code
- Can be retightened as required

## MODEL 5102-2910

**SPEED LASH w/ HOOK**  
10" Take-Up



**MBS: 20 M. TON**

**MATERIAL: STEEL**  
**FINISH: HOT-DIP GALVANIZED (HDG) / PAINTED**  
**WEIGHT: 7.71 Kg / 17 LBS**

- Suitable for 11mm – 13mm Chain
- Designed to meet requirements in the CSS Code
- Can be retightened as required

5102

**MODEL 5103-1678**  
**CHAIN EYE HOOK**  
 for 16 & 18mm Chain

Dimensions:  
 Top eye width: 4-15/32" (114 MM)  
 Total height: 7"  
 Hook height: 4-5/16" (110 MM)  
 Hook width: 1-3/8" (35 MM)  
 I.D. of eye: 1-1/4" (Ø32 MM)  
 Shank diameter: 3/4" (19 MM)

**MBS: 70,000 LBS / 31.7 M. Ton**

**WORKS WITH: 16 & 18 MM CHAIN**  
**MATERIAL: FORGED STEEL FINISH: HOT-DIP GALVANIZED**  
**WEIGHT: 3.45 LBS / 1.57 Kg**

**MODEL 5103-1680**  
**CHAIN EYE HOOK**  
 for 11 mm Chain

Dimensions:  
 Top eye width: 4-1/32" (102 MM)  
 Total height: 6-1/4" (159 MM)  
 Hook height: 4-1/32" (102.5 MM)  
 Hook width: 1-5/16" (33.5 MM)  
 I.D. of eye: 7/8" (Ø22.5 MM)  
 Shank diameter: 19/32" (15 MM)

**MBS: 35,000 LBS / 15.9 M. Ton**

**WORKS WITH: 11 MM CHAIN**  
**MATERIAL: FORGED STEEL FINISH: HOT-DIP GALVANIZED**  
**WEIGHT: 2.14 LBS / 0.97 Kg**

**MODEL 5103-1682**  
**CHAIN EYE HOOK**  
 for 9mm Chain

Dimensions:  
 Top eye width: 3-5/32" (80 MM)  
 Total height: 4-5/8" (118 MM)  
 Hook height: 2-19/32" (66 MM)  
 Hook width: 1-1/4" (31.8 MM)  
 I.D. of eye: 5/8" (Ø16 MM)  
 Shank diameter: 7/16" (11.5 MM)

**MBS: 17,000 LBS / 7.7 M. Ton**

**WORKS WITH: 9 MM CHAIN**  
**MATERIAL: FORGED STEEL FINISH: HOT-DIP GALVANIZED**  
**WEIGHT: 0.88 LBS / 0.4 Kg**

**MODEL 5103-1692**  
**MODEL 5103-1692-R\***  
**EYE HOIST HOOK**  
 \*-R includes SS Latch

Dimensions:  
 Top eye width: 6-1/4" (158 MM)  
 Total height: 10-3/16" (258 MM)  
 Hook height: 7-3/8" (187 MM)  
 Hook width: 1-7/8" (48 MM)  
 I.D. of eye: 2-3/4" (Ø70 MM)  
 I.D. of eye: 1/8" (Ø3.8 MM)  
 I.D. of eye: 2" (Ø51 MM)  
 Shank diameter: 1" (25 MM)  
 Shank tip diameter: 1-7/16" (36 MM)

**MBS: 77,160 LBS / 35 M. Ton**

**MATERIAL: ALLOY STEEL 1692 FINISH: ZINC-PLATED**  
**1692-R FINISH: PAINTED RED WEIGHT: 7 LBS / 3.17 Kg**

5103



**MODEL 5103-1694**  
**1/2" CLEVIS SLING HOOK**  
 Grade 80

5-1/2" 139.8 MM  
 I.D. 2-1/2" Ø63 MM  
 8-7/16" 214 MM  
 5-5/8" 143 MM  
 2-1/8" 54 MM  
 1-3/8" 35.3 MM  
 2-5/16" 58 MM  
 11/16" 17.6 MM

**MBS: 48,000 LBS / 21.77 M. Ton**

**FITS: 1/2" SHORT LINK CHAIN MATERIAL: FORGED ALLOY STEEL**  
**FINISH: PAINTED RED WEIGHT: 4.69 LBS / 2.13 Kg**

**MODEL 5103-1701**  
**5/8" CLEVIS SLING HOOK**  
 Grade 80, w/o spring latch

6-1/2" 164.8 MM  
 I.D. 2-21/32" Ø68 MM  
 9-15/16" 252 MM  
 6-13/32" 163 MM  
 2-7/16" 62 MM  
 1-5/8" 41 MM  
 2-1/8" 54 MM  
 1-7/32" 31 MM

**MBS: 72,400 LBS / 32.84 M. Ton**

**FITS: 5/8" SHORT LINK CHAIN MATERIAL: FORGED ALLOY STEEL**  
**FINISH: YELLOW ZINC CHROMATE WEIGHT: 8.56 LBS / 3.88 Kg**

**SPECIAL ORDER ONLY MODEL 5103-8088**  
**1/2" CLEVIS SLIP HOOK ASSEMBLY, Grade 70**

2-3/8" 61.1 MM  
 1-7/8" 48 MM  
 9/16" 15 MM  
 9/16" 15 MM  
 1-11/16" 42.9 MM  
 6-1/2" 165 MM  
 3-15/16" 100 MM  
 4-3/16" 123 MM  
 O.D. 1-5/16" Ø33 MM  
 15/16" 24 MM

**MBS: 35,900 LBS / 16.28 M. Ton**

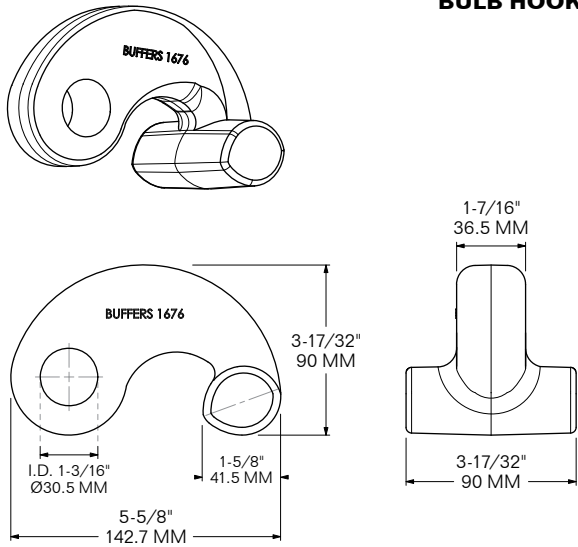
**FITS: 1/2" SHORT LINK CHAIN MATERIAL: ALLOY STEEL FINISH: YELLOW ZINC**  
**WEIGHT: 2.93 LBS / 1.33 Kg**

5103



### MODEL 5103-1676

#### BULB HOOK

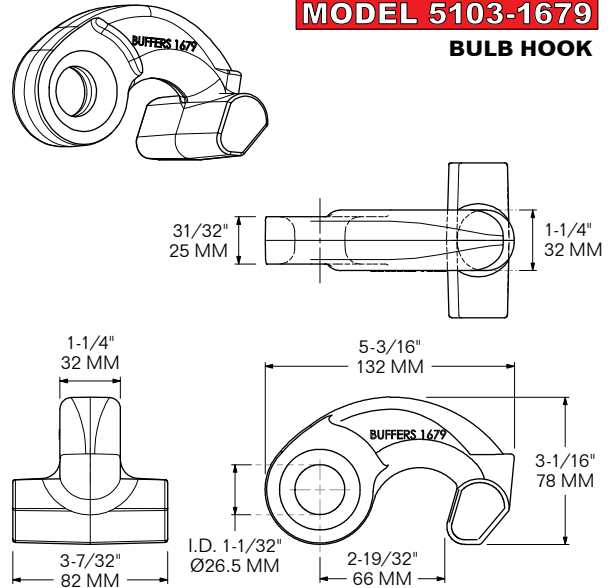


**MBS:** 70,000 LBS / 31.7 M. Ton

**SUB FOR:** NSN 4030-01-169-6807 & 4030-01-540-1583,  
 PECK & HALE H73 **MATERIAL:** FORGED STEEL  
**FINISH:** HOT-DIP GALVANIZED **WEIGHT:** 4.65 LBS / 2.11 Kg

### MODEL 5103-1679

#### BULB HOOK

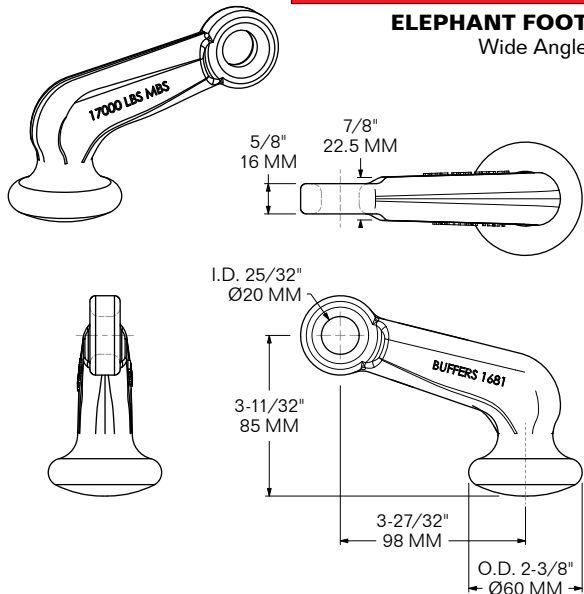


**MBS:** 35,000 LBS / 15.9 M. Ton

**SUB FOR:** PECK & HALE H71 **MATERIAL:** FORGED STEEL  
**FINISH:** HOT-DIP GALVANIZED **WEIGHT:** 3.2 LBS / 1.45 Kg

### MODEL 5103-1681

#### ELEPHANT FOOT Wide Angle



**MBS:** 17,000 LBS / 7.7 M. Ton

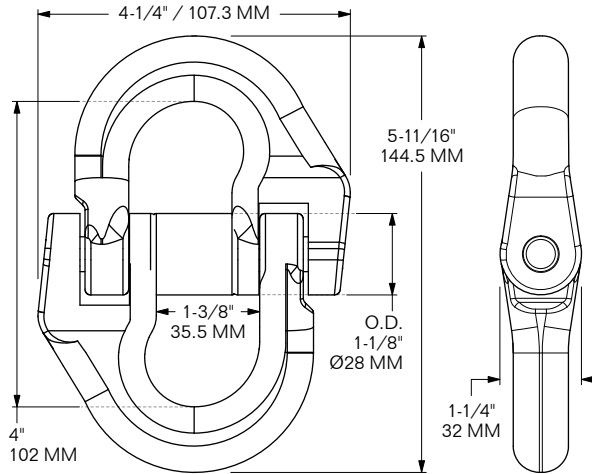
**SUB FOR:** PECK & HALE H62 **MATERIAL:** FORGED STEEL  
**FINISH:** HOT-DIP GALVANIZED **WEIGHT:** 2.65 LBS / 1.2 Kg

5103

### MODEL 5103-1702

#### CONNECTING LINK

5/8", Grade 70



**MBS:** 72,400 LBS / 32.8 M. Ton

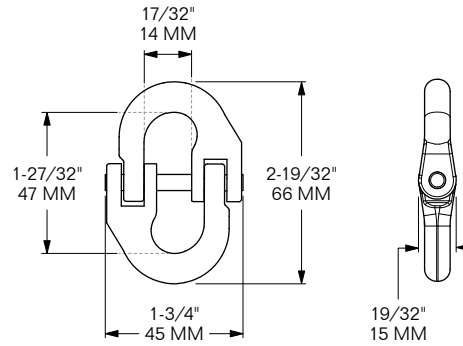
**FITS:** 5/8" SHORT LINK CHAIN    **SUB FOR:** CAMPBELL 5779255  
**MATERIAL:** ALLOY STEEL    **FINISH:** ZINC-PLATED  
**WEIGHT:** 2.86 LBS / 1.29 Kg

### MODEL 5103-CL-1/4-GR80

#### CONNECTING LINK

1/4", Grade 80

**SPECIAL ORDER ONLY**



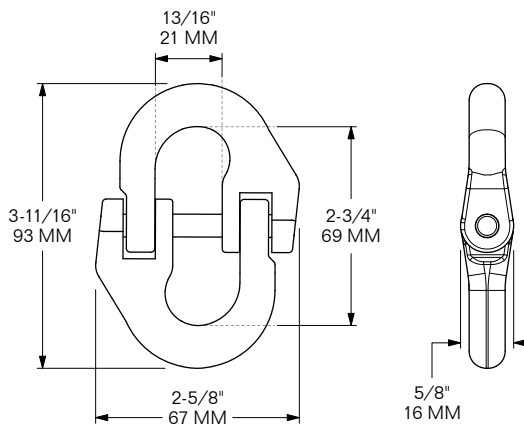
**MBS:** 14,000 LBS / 6.35 M. Ton

**FITS:** 1/4" SHORT LINK CHAIN  
**MATERIAL:** ALLOY STEEL    **FINISH:** ZINC-PLATED  
**WEIGHT:** 0.25 LBS / 0.11 Kg

### MODEL 5103-CL-3/8-GR100

#### CONNECTING LINK

3/8", Grade 100



**MBS:** 35,200 LBS / 15.96 M. Ton

**FITS:** 3/8" SHORT LINK CHAIN  
**SUB FOR:** CAMPBELL 5779235  
**MATERIAL:** ALLOY STEEL    **FINISH:** PAINTED GREEN  
**WEIGHT:** 0.69 LBS / 0.31 Kg

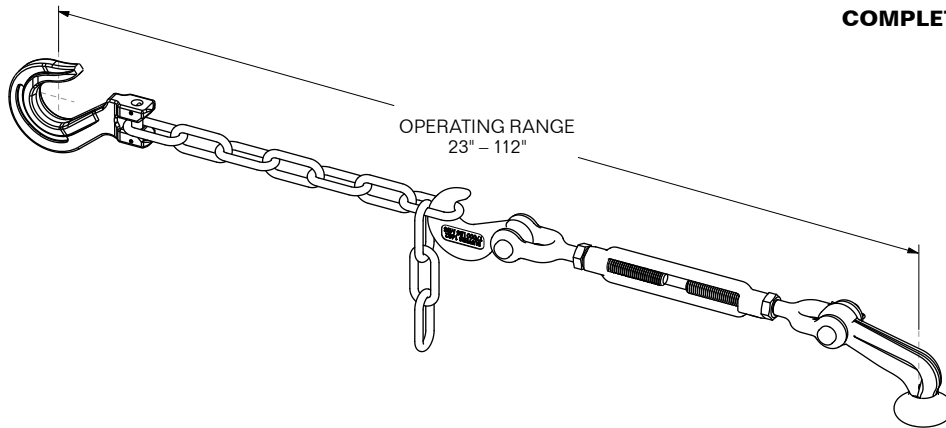
5103

# CHAIN TIE-DOWN ASSEMBLY

## HOOK/TURNBUCKLE/FOOT & CHAIN/HOOK

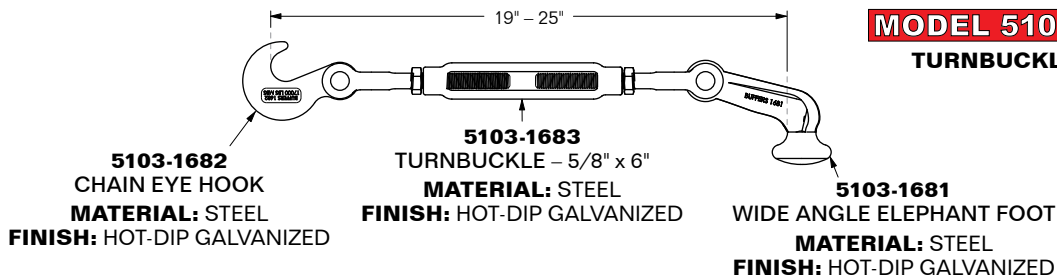
17,000 LBS (7.7 M. TON) MBS

**MODEL 5103-1703-KIT**  
**COMPLETE ASSEMBLY**



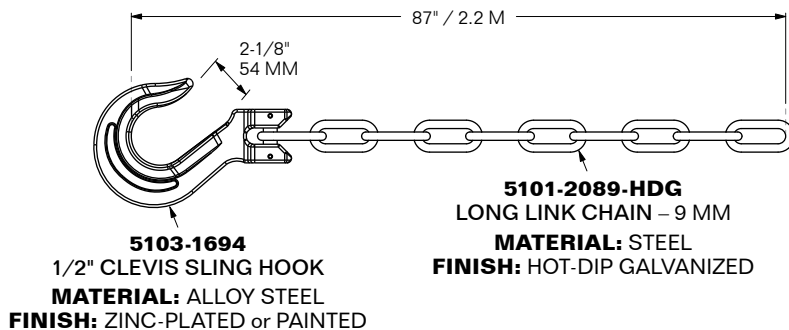
**SUB FOR:** PECK & HALE 17MTB/1630 **WEIGHT:** 14.8 LBS / 6.7 Kg

**MODEL 5103-1703-TA**  
**TURNBUCKLE ASSEMBLY**



**SUB FOR:** PECK & HALE 17MTB-1/1630 **WEIGHT:** 6.4 LBS / 2.9 Kg

**MODEL 5103-1703-CA-HDG**  
**CHAIN ASSEMBLY**



**SUB FOR:** PECK & HALE 17MTB-2/1630 **WEIGHT:** 8.4 LBS / 3.8 Kg

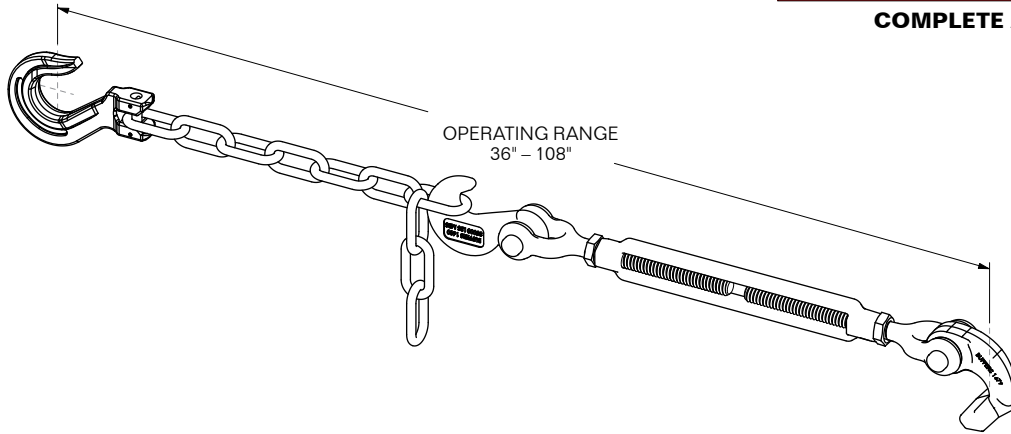
5103

# CHAIN TIE-DOWN ASSEMBLY

## HOOK/TURNBUCKLE/HOOK & CHAIN/HOOK

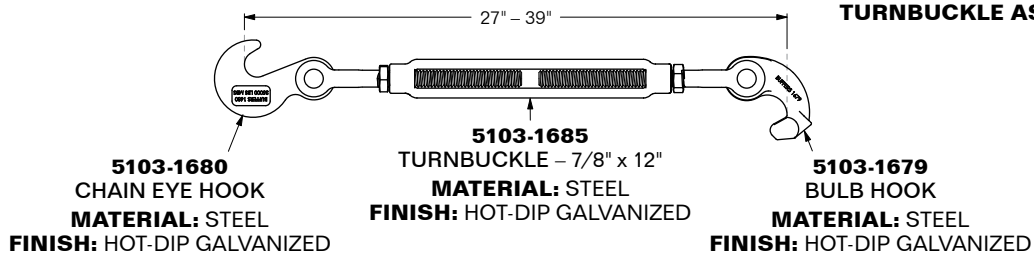
35,000 LBS (15.87 M. TON) MBS

**MODEL 5103-1706-KIT**  
COMPLETE ASSEMBLY



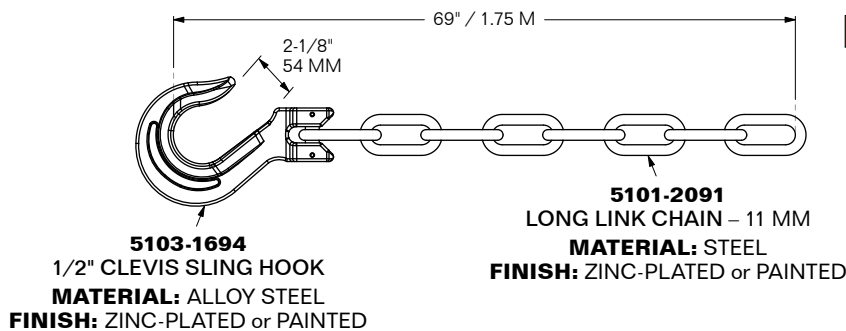
**SUB FOR:** PECK & HALE 35MTB/1631 **WEIGHT:** 25.4 LBS / 11.5 Kg

**MODEL 5103-1706-TA**  
TURNBUCKLE ASSEMBLY



**SUB FOR:** PECK & HALE 35MTB-1/1631 **WEIGHT:** 14.75 LBS / 6.7 Kg

**MODEL 5103-1706-CA**  
CHAIN ASSEMBLY



**SUB FOR:** PECK & HALE 35MTB-2/1631 **WEIGHT:** 10.65 LBS / 4.8 Kg

5103

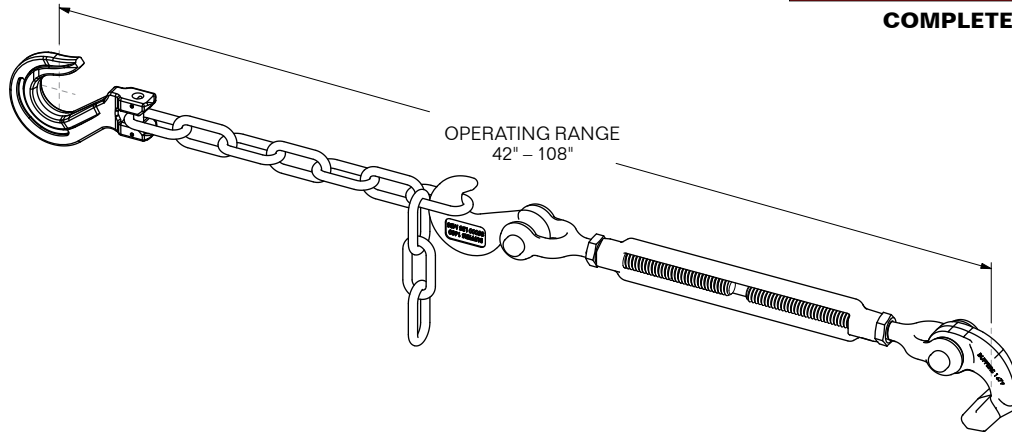


# CHAIN TIE-DOWN ASSEMBLY

## HOOK/TURNBUCKLE/HOOK & CHAIN/HOOK

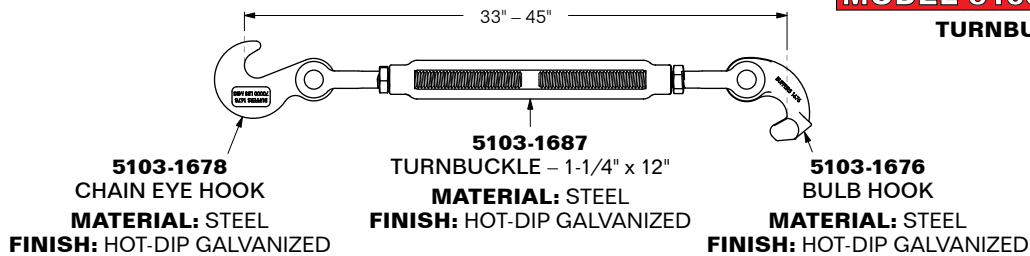
70,000 LBS (31.7 M. TON) MBS

**MODEL 5103-1707-KIT**  
COMPLETE ASSEMBLY



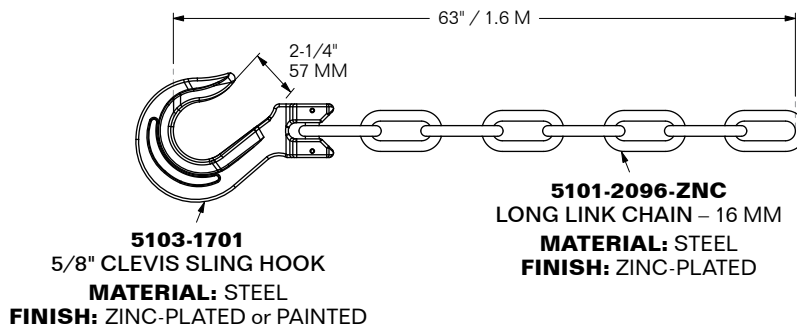
**SUB FOR:** PECK & HALE 70MTB/1632 **WEIGHT:** 51.1 LBS / 23.2 Kg

**MODEL 5103-1707-TA-BH**  
TURNBUCKLE ASSEMBLY



**SUB FOR:** PECK & HALE 70MTB-1/1632 **WEIGHT:** 28.9 LBS / 13.1 Kg

**MODEL 5103-1707-CA**  
CHAIN ASSEMBLY

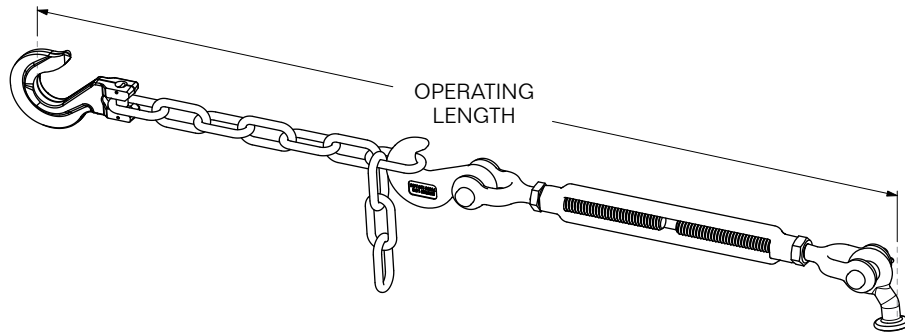


**SUB FOR:** PECK & HALE 70MTB-2/1632 **WEIGHT:** 22.2 LBS / 10.1 Kg

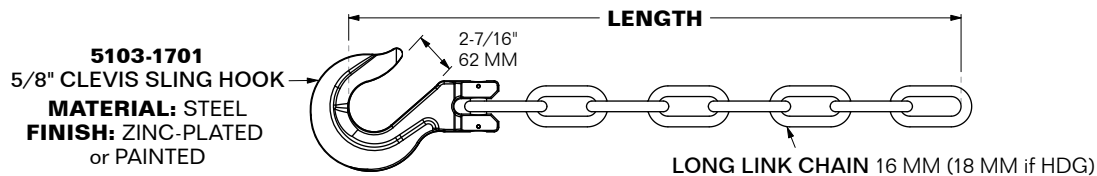
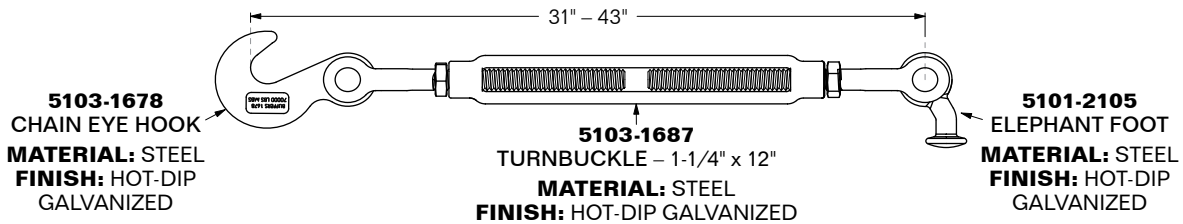
5103







COMPLETE ASSEMBLY	ASSEMBLY WEIGHT	OPERATING LENGTH		CHAIN ASSEMBLY	TURNBUCKLE ASSEMBLY
		Inches	Feet		
<b>5103-1696-KIT</b>	41.45 LBS / 18.8 Kg	42" - 69"	3.5' - 5.75'	<b>5103-1696-CA</b>	<b>5103-1707-TA-EF</b>
<b>5103-1699-KIT</b>	51.1 LBS / 23.18 Kg	42" - 108"	3.5' - 9'	<b>5103-1699-CA</b>	<b>5103-1707-TA-EF</b>
<b>5103-1717-KIT</b>	46.16 LBS / 20.94 Kg	42" - 165"	3.5' - 13.75'	<b>5103-1710-CA</b>	<b>5103-1707-TA-EF</b>
<b>5103-1718-KIT</b>	92.2 LBS / 41.83 Kg	42" - 285"	3.5' - 23.75'	<b>5103-1711-CA</b>	<b>5103-1707-TA-EF</b>
<b>5103-1719-KIT</b>	127.11 LBS / 57.66 Kg	42" - 405"	3.5' - 33.75'	<b>5103-1712-CA</b>	<b>5103-1707-TA-EF</b>
<b>5103-1720-KIT</b>	157 LBS / 71.21 Kg	42" - 525"	3.5' - 43.75'	<b>5103-1713-CA</b>	<b>5103-1707-TA-EF</b>



CHAIN ASSEMBLY	LENGTH	LONG LINK CHAIN	MATERIAL	FINISH
<b>5103-1696-CA</b>	24" / 0.6 M	<b>5101-2106-HDG</b>	STEEL	HOT-DIP GALVANIZED
<b>5103-1699-CA</b>	63" / 1.6 M	<b>5101-2106-HDG</b>	STEEL	HOT-DIP GALVANIZED
<b>5103-1710-CA-BLK</b>	120" / 3.1 M	<b>5101-2096-BLK</b>	STEEL	PAINTED BLACK
<b>5103-1710-CA-GRE</b>	120" / 3.1 M	<b>5101-2096-GRE</b>	STEEL	PAINTED GREEN
<b>5103-1711-CA-BLU</b>	240" / 6.1 M	<b>5101-2096-BLU</b>	STEEL	PAINTED BLUE
<b>5103-1711-CA-ORG</b>	240" / 6.1 M	<b>5101-2096-ORG</b>	STEEL	PAINTED ORANGE
<b>5103-1712-CA-HDG</b>	360" / 9.1 M	<b>5101-2106-HDG</b>	STEEL	HOT-DIP GALVANIZED
<b>5103-1712-CA-WHT</b>	360" / 9.1 M	<b>5101-2096-WHT</b>	STEEL	PAINTED WHITE
<b>5103-1713-CA-GRE</b>	480" / 12.2 M	<b>5101-2096-GRE</b>	STEEL	PAINTED GREEN
<b>5103-1713-CA-YEL</b>	480" / 12.2 M	<b>5101-2096-YEL</b>	STEEL	PAINTED YELLOW

5103

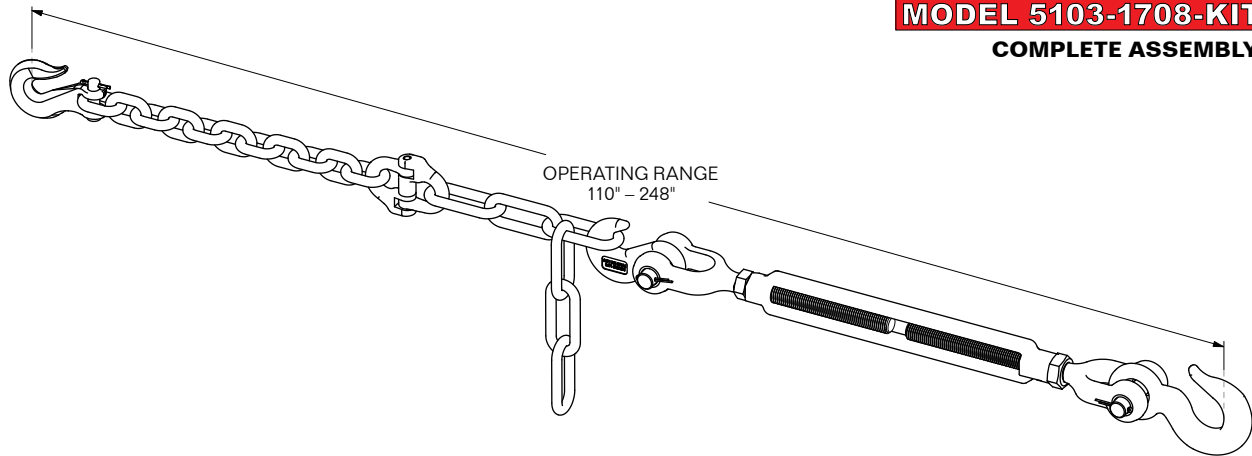




# CHAIN TIE-DOWN ASSEMBLY

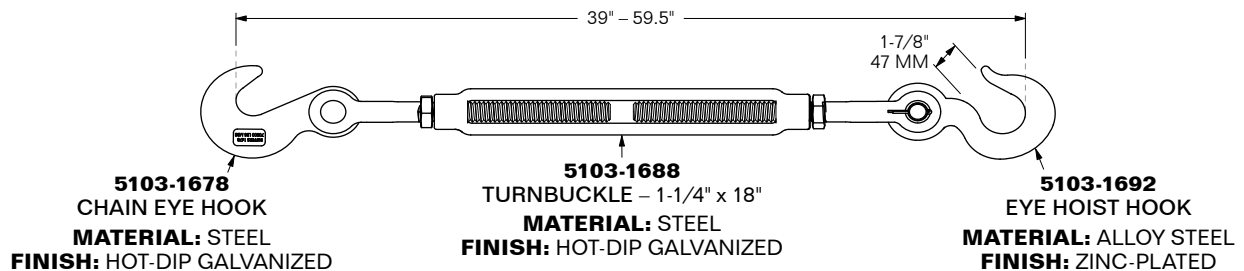
HOOK / TURNBUCKLE / HOOK &  
L.L. CHAIN / CONN. LINK / S.L. CHAIN / HOOK  
70,000 LBS (31.7 M. TON) MBS

**MODEL 5103-1708-KIT**  
**COMPLETE ASSEMBLY**



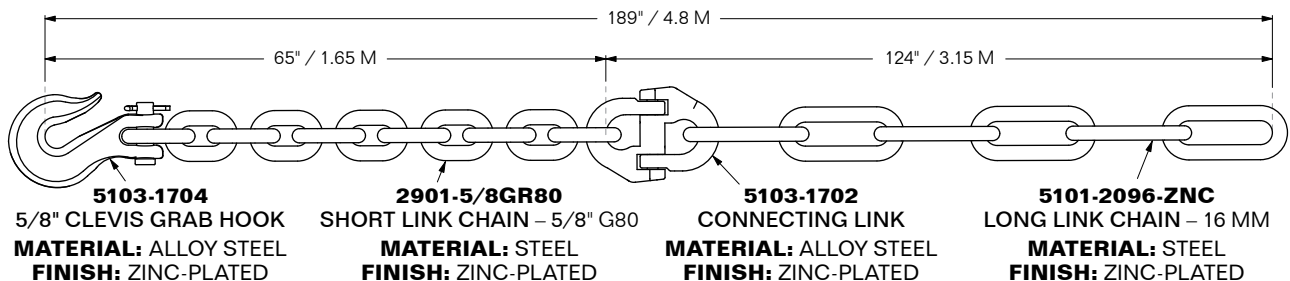
**SUB FOR:** PECK & HALE 70MTB/1650A **WEIGHT:** 91 LBS / 41.3 Kg

**MODEL 5103-1708-TA**  
**TURNBUCKLE ASSEMBLY**



**SUB FOR:** PECK & HALE 70MTB-1/1650 **WEIGHT:** 35.7 LBS / 16.2 Kg

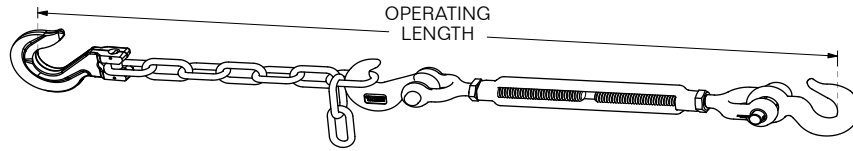
**MODEL 5103-1708-CA**  
**CHAIN ASSEMBLY**



**SUB FOR:** PECK & HALE 70MTB-2/1650A **WEIGHT:** 55.3 LBS / 25.1 Kg

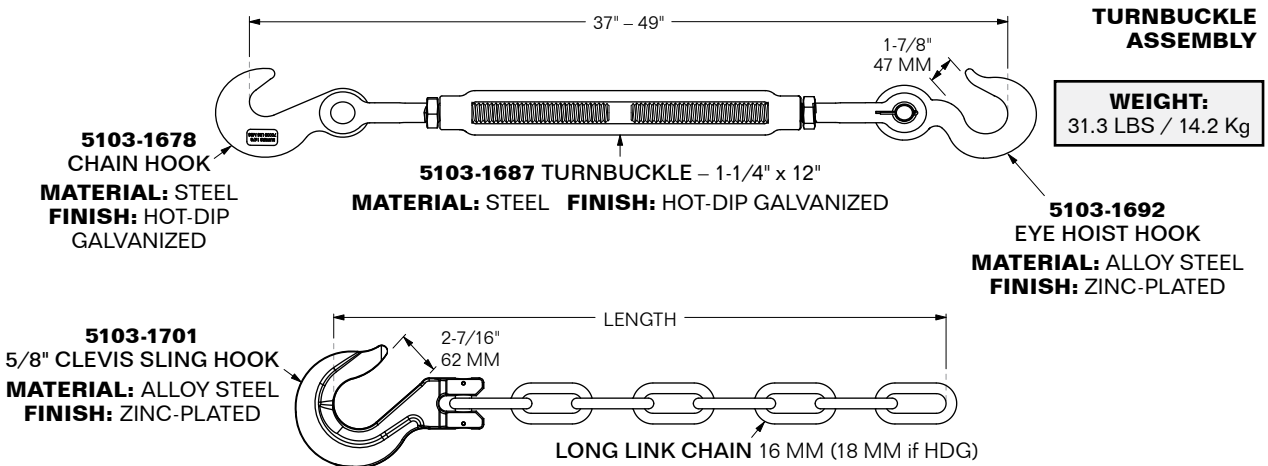
5103





COMPLETE ASSEMBLY	SUB FOR	ASSEMBLY WEIGHT	OPERATING LENGTH		CHAIN ASSEMBLY	TURNBUCKLE ASSEMBLY
			Inches	Feet		
<b>5103-1700-KIT</b>	—	45.3 LBS / 20.5 Kg	51" – 73"	4.2' – 6'	<b>5103-1696-CA</b>	<b>5103-1709-TA</b>
<b>5103-1705-KIT</b>	P&H 70MTB	55 LBS / 25 Kg	51" – 112"	4.2' – 9.3'	<b>5103-1699-CA</b>	<b>5103-1709-TA</b>
<b>5103-1710-KIT</b>	P&H 70MTB/1786A	68 LBS / 31 Kg	51" – 169"	4.2' – 14.1'	<b>5103-1710-CA</b>	<b>5103-1709-TA</b>
<b>5103-1711-KIT</b>	P&H 70MTB/1786C	97 LBS / 44 Kg	51" – 289"	4.2' – 24.1'	<b>5103-1711-CA</b>	<b>5103-1709-TA</b>
<b>5103-1712-KIT</b>	P&H 70MTB/1786E	128 LBS / 58 Kg	51" – 409"	4.2' – 34.1'	<b>5103-1712-CA</b>	<b>5103-1709-TA</b>
<b>5103-1712-KIT-HDG</b>	P&H 70MTB/1786E	128 LBS / 58 Kg	51" – 409"	4.2' – 34.1'	<b>5103-1712-CA-HDG</b>	<b>5103-1709-TA</b>
<b>5103-1713-KIT</b>	K-H-16/B-76	157 LBS / 71 Kg	51" – 529"	4.2' – 44.1'	<b>5103-1713-CA</b>	<b>5103-1709-TA</b>
<b>5103-1714-KIT</b>	P&H 70MTB/1786H	172 LBS / 78 Kg	51" – 589"	4.2' – 49.1'	<b>5103-1714-CA</b>	<b>5103-1709-TA</b>
<b>5103-1715-KIT</b>	K-H-16/B-76	187 LBS / 84.8 Kg	51" – 649"	4.2' – 54.1'	<b>5103-1715-CA</b>	<b>5103-1709-TA</b>

### MODEL 5103-1709-TA



CHAIN ASSEMBLY	LENGTH	LONG LINK CHAIN	MATERIAL	FINISH
<b>5103-1696-CA</b>	24" / 0.6 M	<b>5101-2106-HDG</b>	STEEL	HOT-DIP GALVANIZED
<b>5103-1699-CA</b>	63" / 1.6 M	<b>5101-2106-HDG</b>	STEEL	HOT-DIP GALVANIZED
<b>5103-1710-CA-BLK</b>	120" / 3.1 M	<b>5101-2096-BLK</b>	STEEL	PAINTED BLACK
<b>5103-1710-CA-GRE</b>	120" / 3.1 M	<b>5101-2096-GRE</b>	STEEL	PAINTED GREEN
<b>5103-1608-CA-ORG</b>	144" / 3.6 M	<b>5101-2096-ORG</b>	STEEL	PAINTED ORANGE
<b>5103-1711-CA-BLU</b>	240" / 6.1 M	<b>5101-2096-BLU</b>	STEEL	PAINTED BLUE
<b>5103-1711-CA-ORG</b>	240" / 6.1 M	<b>5101-2096-ORG</b>	STEEL	PAINTED ORANGE
<b>5103-1712-CA-HDG</b>	360" / 9.1 M	<b>5101-2106-HDG</b>	STEEL	HOT-DIP GALVANIZED
<b>5103-1712-CA-WHT</b>	360" / 9.1 M	<b>5101-2096-WHT</b>	STEEL	PAINTED WHITE
<b>5103-1713-CA-GRE</b>	480" / 12.2 M	<b>5101-2096-GRE</b>	STEEL	PAINTED GREEN
<b>5103-1713-CA-YEL</b>	480" / 12.2 M	<b>5101-2096-YEL</b>	STEEL	PAINTED YELLOW
<b>5103-1714-CA-ORG</b>	540" / 13.7 M	<b>5101-2096-ORG</b>	STEEL	PAINTED ORANGE
<b>5103-1715-CA-YEL</b>	600" / 15.2 M	<b>5101-2096-YEL</b>	STEEL	PAINTED YELLOW

5103



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& RO-RO RIGGING: **6101-6109**

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<b>6105-3</b>	RIGGING TURNBUCKLES (Hook & Eye)
<b>6105-4</b>	RIGGING TURNBUCKLES (Eye & Eye)
<b>6105-5</b>	RIGGING TURNBUCKLES (Jaw & Eye)
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<b>6108-2</b>	TOW BAR ASSEMBLY
<b>6109-1</b>	CHASSIS/TRAILER STAND

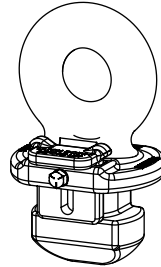
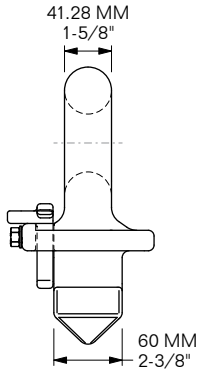
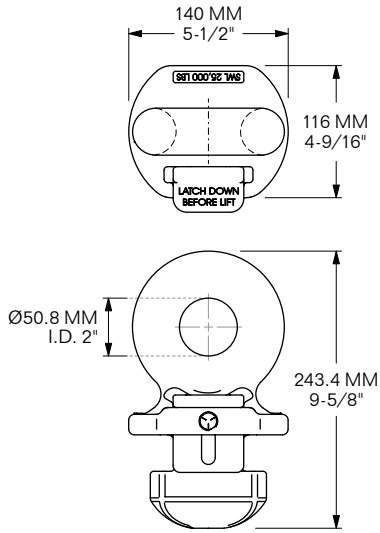
**6100**



**MODEL 6101-1864-KIT**

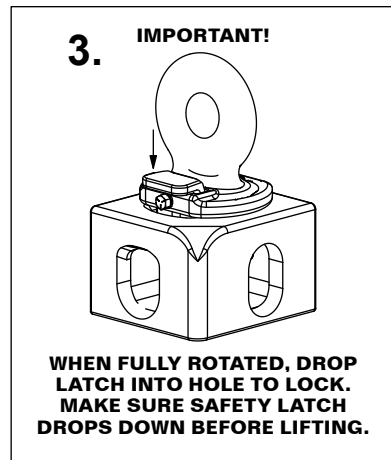
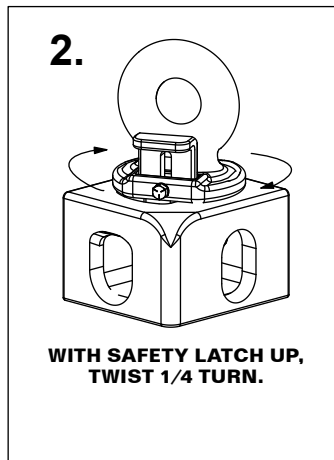
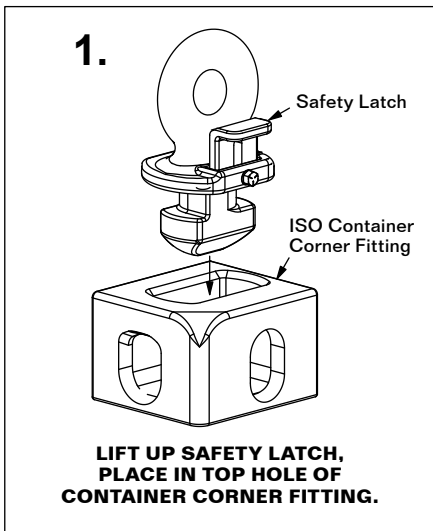
**CONTAINER TOP LIFT LUG**  
Kit includes Test Tag on Lanyard

**PLEASE NOTE:** 4 ea. 1864-KIT are needed to lift a Container.



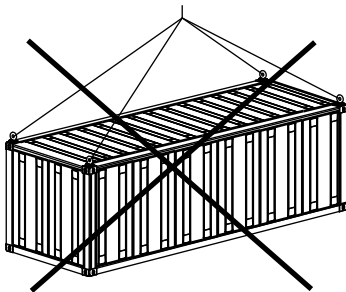
**SWL:** 25,000 LBS  
**MATERIAL:** HIGH-STRENGTH ALLOY STEEL  
**FINISH:** EPOXY PAINT, YELLOW  
**WEIGHT:** 8.39 Kg / 18.5 LBS

**INDIVIDUALLY PROOF-LOADED TO 60,000 LBS**



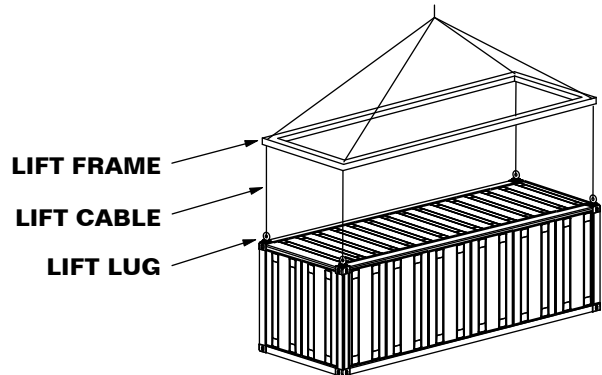
**WARNING:**  
**DESIGNED FOR STRAIGHT LIFT ONLY**

MUST USE LIFT FRAME FOR STRAIGHT LIFT.



**WARNING**

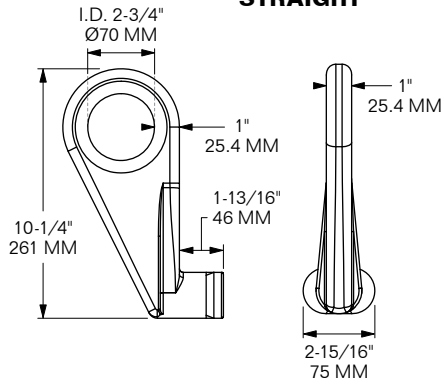
THIS TYPE OF LIFT NOT ALLOWED!  
MUST USE LIFT FRAME FOR STRAIGHT LIFT.



**6101**

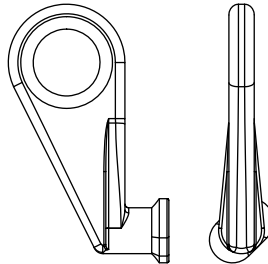
**MODEL 6101-1801**

**STRAIGHT**



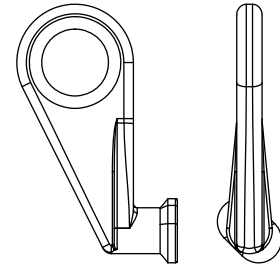
**MODEL 6101-1800-L**

**LEFT**



**MODEL 6101-1800-R**

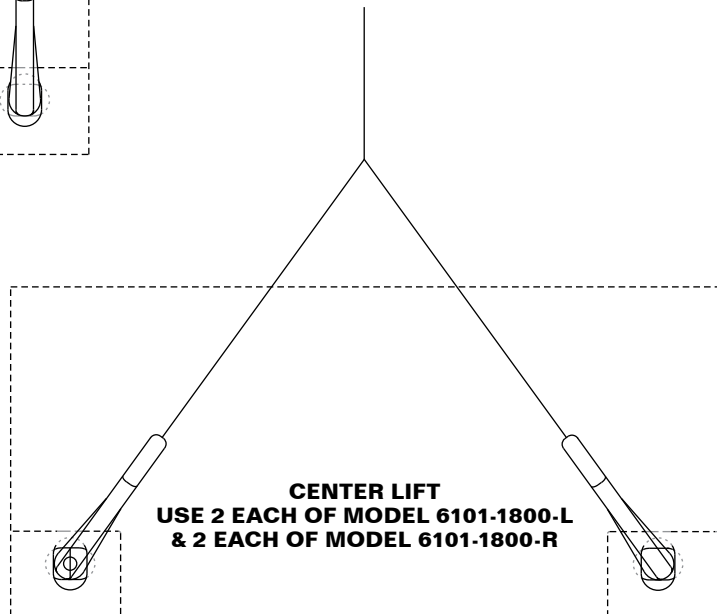
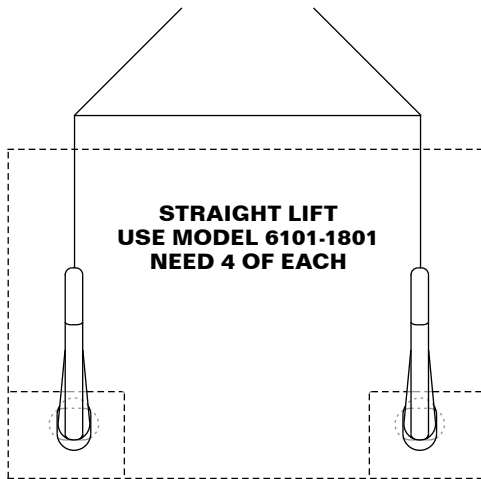
**RIGHT**



**ISO CONTAINER SIDE LIFT HOOK**

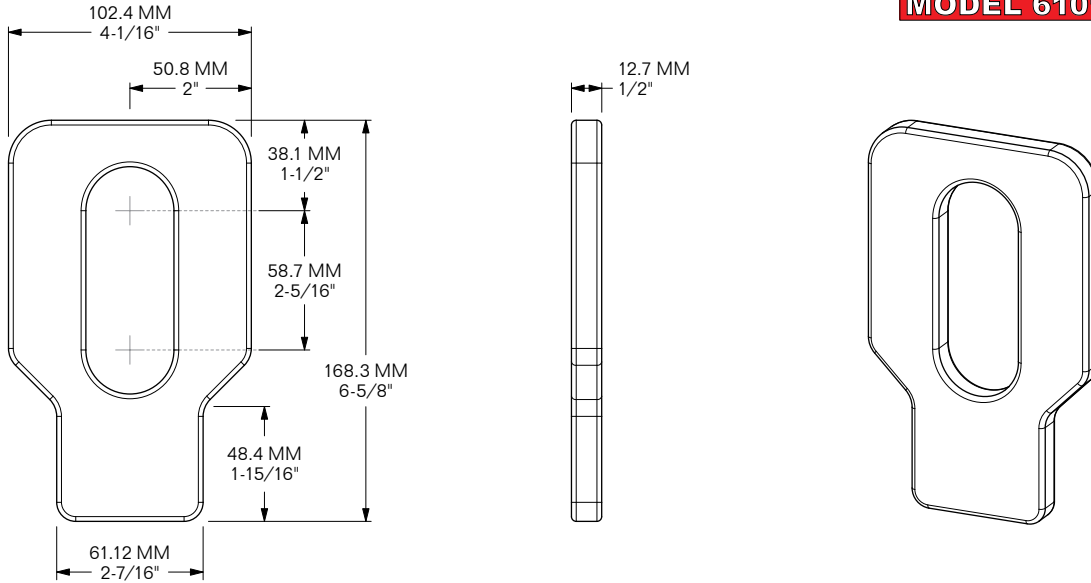
**MODEL 6101-1801: STRAIGHT**  
WLL: 27,500 LBS  
COLOR: YELLOW, PAINTED  
WEIGHT: 8.4 LBS / 3.81 Kg

**MODEL 6101-1800-L: LEFT 45°**  
**MODEL 6101-1800-R: RIGHT 45°**  
WLL: 27,500 LBS  
COLOR: YELLOW, PAINTED  
WEIGHT: 8.4 LBS / 3.81 Kg



**6101**

**MODEL 6101-2010**



**FITS:** TANDEMLOC 72009-3-P **FITS:** TANDEMLOC LIFT LUG MODEL 72009  
**MATERIAL:** STEEL **FINISH:** HOT-DIP GALVANIZED (HDG)  
**WEIGHT:** 1.3 Kg / 2.8 LBS

**6101**

### C-Lift Spreader

- Low tare weight
- High volume design
- Automatic locking



Timars C-Lift spreader is a flexible fixed frame spreader for handling of ISO containers. The spreader has a very low tare weight, which makes it perfect for ships and smaller cranes. The spreader is designed to withstand tough climatic conditions and harsh marine environments.

The spreader is equipped with fendering guidearms in order to ensure a safer and faster approach of a container. The locking system is automatic and works based on the gravity principle. The indicator arrow clearly shows the operator the open or locked twistlock position. This is a spreader for operators with high demands for efficiency and safety.

### HCL Spreader

- Heavy duty design that doubles as lift frame
- Automatic or manual locking



Timars HCL spreader is a rectangular shaped frame container spreader for handling ISO certified containers. The spreaders design will sustain extremely rough conditions.

Timars HCL is available with an automatic locking system or manual two handle locking. The automatic system operates on the "lift and gravity" principle, which means that the locking and unlocking of twistlocks is performed by lowering and lifting of the spreader.

To handle overheight containers, the spreader is equipped with shackle points at each corner for 12 M. Ton chain type shackles.

### HCA Spreader

- Low cost for lower throughput users
- High quality collapsable design
- Automatic locking



Timars HCA Spreader is a low cost no frills spreader that can be supplied in three pieces and then bolted together at destination. This makes it easy to ship as LCL cargo in standard containers that reduces the landed cost significantly.

The spreader has a low tare weight and is equipped with automatic locking and unlocking and can be equipped with guide arms (not standard). It is designed with low throughput users in mind, but still made with the well-known high Timars quality.

The operating system for locking and unlocking twistlocks is well protected inside the frame.

Type	Part Number	Size	SWL / M. Ton	Tare Weight
C-Lift	6102-6765-32T	20'	32	950 Kg / 2,095 LBS
C-Lift	6102-6765-40T	20'	40	950 Kg / 2,095 LBS
C-Lift	6102-6766-32T	30'	32	1,100 Kg / 2,425 LBS
C-Lift	6102-6766-40T	30'	40	1,100 Kg / 2,425 LBS
C-Lift	6102-6767-32T	40'	32	1,200 Kg / 2,645 LBS
C-Lift	6102-6767-40T	40'	40	1,200 Kg / 2,645 LBS
HCL Spreader	6102-7849-35T	20'	35	1,700 Kg / 3,748 LBS
HCL Spreader	6102-7849-40T	20'	40	1,700 Kg / 3,748 LBS
HCL Spreader	6102-7849-40T-LL	20' Low Lift	40	1,700 Kg / 3,748 LBS
HCL Spreader	6102-7850-35T	30'	35	2,000 Kg / 4,409 LBS
HCL Spreader	6102-7850-40T	30'	40	2,000 Kg / 4,409 LBS
HCL Spreader	6102-7851-35T	40'	35	2,300 Kg / 5,070 LBS
HCL Spreader	6102-7851-40T	40'	40	2,300 Kg / 5,070 LBS
HCL Spreader	6102-7851-40T-LL	40' Low Lift	40	2,500 Kg / 5,512 LBS
HCA Spreader	6102-7852-32T	20'	32	960 Kg / 2,116 LBS
HCA Spreader	6102-7854-36T	40'	36	1,300 Kg / 2,865 LBS

6102



# Timars OHE Frame

Buffers Model 6102-7539

Fully-Automatic Electro-Mechanical Overheight Frame w/ Hoist Interlock Capability

## DESCRIPTION

Timars' OHE frame is a fully-electric overheight frame with the latest safety systems. It has been developed from Timars' experience in producing the most efficient and safest overheight frames universally used with any kind of automatic spreader and spreader brand.



6102

This overheight frame has been developed to meet the increased safety demands in ports, and is equipped with a new electro-mechanical system with IFM PLC, alloy steel actuators, several smart safety features and a very smart, power-saving sleep mode. The OHE can also be equipped with the new Hoist Interlock system and service communication system.

The connection between the spreader and the overheight frame is like that of a regular container – by the twistlocks on the spreaders. There's no other mechanical connection to the spreader, and there's no need to manually connect or disconnect the overheight frame itself; it can be left anywhere.



## Technical Specifications

### DESIGN

**Body:** The Timars OHE frame has two short-side profiles and one center beam that are bolted together and are telescopic from 20', up to 45' (40' is preset). The body has gone through Finite Element Analysis to optimize the construction to make it strong, yet light. The frame is, of course, CE-approved according to the machinery directive. The spreader conforms with the following standard(s) or other normative document(s) following the provisions of Directive 2006/42/EG (machinery), annex 2: CE-labeled, SS-EN 13155+A2:2009 and SS-EN 15056:2006.

Test load certificate from 20T for each "leg" under survey by Inspecta (third-party inspection company).

### Frame Assembly:

Each OHE frame is delivered in three separate pieces (if not agreed otherwise), consisting of two short-side profiles and one center beam, to help save on freight cost. The frame is assembled very easily in less than one hour. The frame is then ready to use.



### Dimensions:

The fixed sized OHE frame follows ISO standard base measures:

- Sizing: Telescopic, 20' – 45'
- Free height: 2.4 m (others proposed separately on request)
- Total height: 3.15 m
- Weight: 6,614 lbs. / 3,000 kg (approx.)

### Paint specifications:

- According to A4.08.C4 medium
- Degreasing, Abrasive blasting to Sa 2.5, 80u EP, 160u PUR top coat
- Color: RAL 1028 (yellow)
- Total painting thickness: 240 microns
- Others to be proposed

### BUILT-IN SAFETY SYSTEMS

The Timars OHE frame is an intelligent tool that helps the operator take control of some possible external errors, such as the inside of the corner casting being partly blocked.

### Safety Twistlock Blocking system (STB system):

The OHE frame is equipped with landing probes which prevents the overheight frame mechanically to lock the twistlocks unless the overheight frame is landed correctly. Each landing probe is also verified by an inductive sensor (IFM). A yellow LED light will indicate when all landing probes are activated (overheight frame landed correct). To be able to lock and unlock the twistlocks of the overheight frame, all sensors must detect landed landing probes. The overheight frame can also signal (for example, by flashing light) if one or more landing probes fail (for example, if one or more landing probes stay in the upper position after a set time).

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## Technical Specifications

### BUILT-IN SAFETY SYSTEMS *(cont'd)*

**Safety Torque Limitation system (STL system):** If one or more twistlocks are prevented to lock (for example, if something is blocking the rotation in the corner casting of the container/flattrack) the twistlocks will return to the original position.

**Safety Twistlocks Emergency system (STE system):** Each twistlock of the OHE frame can, when the frame is resting on its goods, manually be turned by hand – or if slightly jammed, by a standard tool. Due to this special design, there is no risk of an incorrect position when putting it back to normal again.

### OTHER EQUIPMENT

**LED Lamps:** Robust LED lights indicate “Twistlocks Open” (green), “Twistlocks Locked” (red), “Overheight Frame Landed” (yellow). Note that other colors can be chosen, and the lights also can be used for indicating, for example, failed landing probes or failed twistlock position. There are two sets of LED lights on each overheight frame.



**PLC:** The robust PLC from IFM includes the program for operating the overheight frame. On a color screen on the electrical cabinet, the operator can get current equipment readouts such as battery condition, number of TEUs handled and time in operation. There is also a “Smart Service” mode for easy fault search.



**Solar Panels:** The overheight frame operates by an internal 24V system. The batteries are located on the overheight frame in a protected position. The frame is equipped with a “Smart” power-saving system, which means that it will not drain the batteries during normal use and will be able to keep charge through just the solar panels. There is, of course, the option to charge the batteries through an electrical outlet connection, which might be used during some conditions.



**Optional Communication Service:** The OHE frame can be equipped with a modem for wireless communication with port engineers (or to Timars). With this system, the operator can always get the exact position of the frame (by GPS), and also direct information about battery condition, number of TEUs handled, time in operation and error messages.

**Compatibility to Parent Spreader:** The Timars overheight frame is fully compatible to any kind of parent spreader with ISO box base that measures within 20' – 45' length.

**NOTE:** Parent spreader must be allowed to telescope with locked twistlocks to be able to telescope the OHE 20' – 45'.

To use the option with the Hoist Interlock system, the spreader must have an installed wireless communication programmed for the Timars Overheight Frame.

**ISO Requirements for Payload Connection:** The goods that are to be connected to the OHE twistlocks must be of ISO box corners with same ISO c/c base measures as the OHE frame. All four corners must be connected to the twistlocks of the OHE frame.

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## Technical Specifications

### OPERATIONAL DESCRIPTION

Timars OHE v6.0 is a fully-automatic overheight frame with electro-mechanical operation. It works with any type of automatic container spreader of any brand (with ISO container measurements).

**ATTACHING/DETACHING of the parent spreader to the Timars OHE Frame:** The parent spreader (crane, reach stacker, straddler carrier, etc.) should be located on top of the Timars OHE frame, as on a regular container. The driver of the crane, reach stacker, straddler carrier, etc. now locks the twistlocks of the parent spreader. This will start up the overheight frame from sleep mode, making it ready to operate.

Detaching the parent spreader from the Timars OHE frame is simply done by unlocking the twistlocks of the parent spreader at any time when the Timars OHE Frame is put down. It can be put anywhere, for example: on the quay, on a trailer or onto a container.

**LOCKING & UNLOCKING of Timars OHE frame twistlocks:** The operator then lands the overheight frame onto a flatrack/open top container. When all four landing probes are affected (the overheight frame has landed correctly) the operator receives a yellow light from the LED light indication panel. The operator now initiates an open-lock sequence with the spreader. The open signal from the spreader is used to lock the twistlocks to the container, using two electro-mechanical actuators (one on each side of the overheight frame) which are connected to a rod on the twistlocks.

The LED lights indicate the twistlock status (locked and unlocked). A red light indicates that overheight frame twistlocks are locked, and a green light indicates that overheight frame twistlocks are open. This can be customized with different colors.

Same procedure for unlocking the container: land the container, and when the overheight frame rests on the container the landing probes detect this. The operator makes an open-lock sequence with the spreader, and the twistlocks turn to open. This is indicated by the LED lights.

### DOCUMENTATION

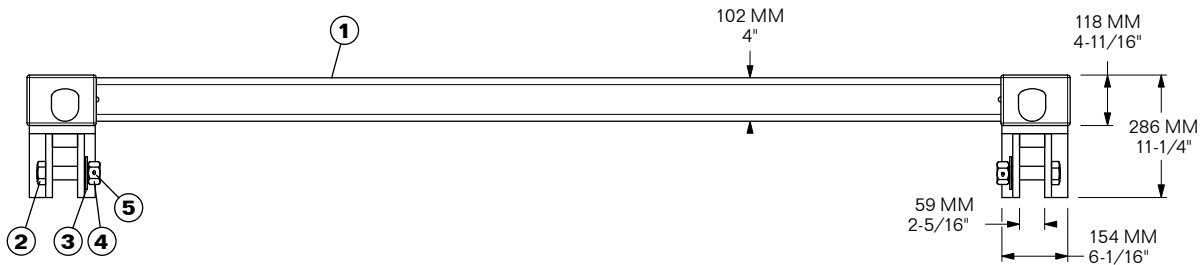
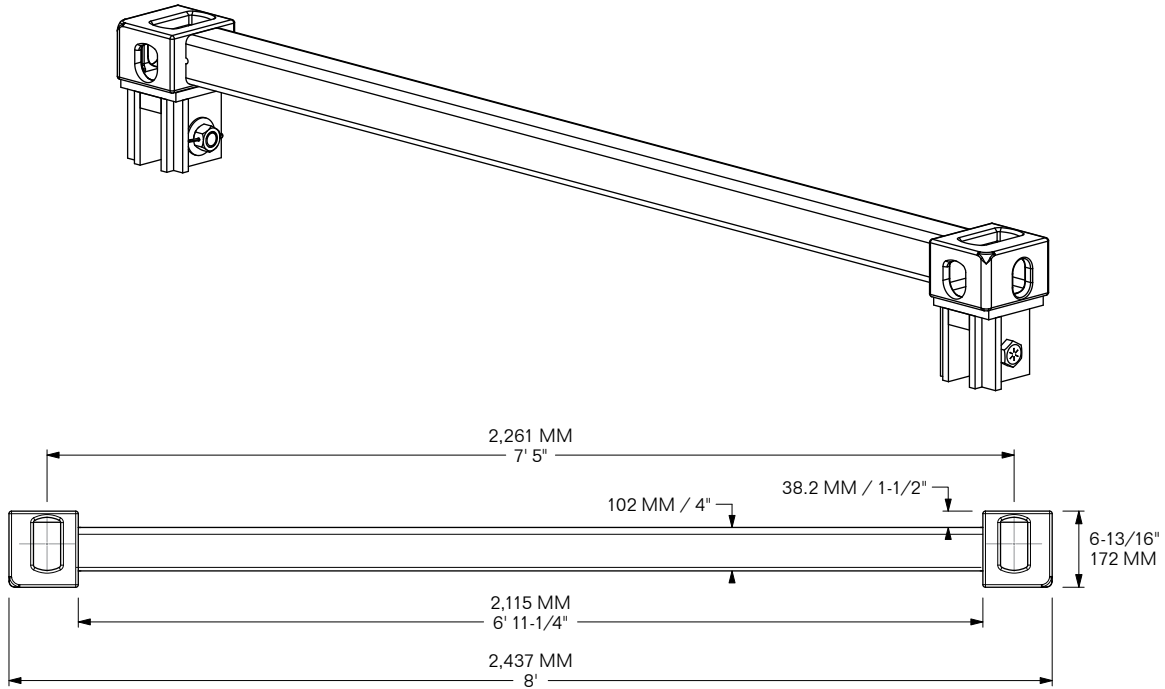
Three complete sets of manuals for maintenance, operation and setup in English language (Certificates in English) are included. All documentation also provided on one CD or DVD. Other documentation to be advised.

**Other Certificates:** Timars Svets & Smide AB is both approved ISO 9001:2008, ISO 14001:2004 and ISO 3834-2 company. All welders are licensed, and each frame follows a well-documented, quality program.

**Equipment warranty:** All equipment supplied is guaranteed against bad workmanship and failure of any components other than normal usage over a two-shift period (16 hours). Guarantee is valid 12 months from date of delivery.

6102

**MODEL 6102-1109-KIT**



ITEM	QTY.	MODEL	DESCRIPTION	WEIGHT / EACH
1	1	<b>6102-1109</b>	DF-40 Lift Beam, HDG	79.4 Kg / 175 LBS
2	2	<b>6102-4721-G8</b>	Hex Clevis Bolt, 1-1/4"-7 x 5"	1.6 Kg / 3.5 LBS
3	2	<b>6102-4722</b>	Flat Washer, 1-1/4"	0.11 Kg / 0.25 LBS
4	2	<b>6102-4723</b>	Hex Nut, 1-1/4"	0.23 Kg / 0.5 LBS
5	2	<b>1110-4623-SS</b>	Cotter Pin, 3/16" x 3"	0.01 Kg / 0.01 LBS

**SWL:** 10 M. TON PER END  
**PROOF LOAD:** EACH END PROOF-LOAD TESTED TO 20 M. TON

**FITS:** TANDEMLOC LIFT LUG MODEL 72009  
**FINISH:** GALVANIZED BEAM, ZINC-PLATED HARDWARE  
**6101-1109-KIT WEIGHT:** 83.3 Kg / 183.6 LBS

**6102**

# BUFFERS FOR CONTAINER SPREADER FLIPPERS

4-5/16" 110 MM  
3-3/8" 86 MM  
2" 50 MM  
I.D. 1/2" Ø13.5 MM  
Wear Grooves/Indicators (2)  
Stainless Steel Base  
Polyurethane Buffer  
US PATENT NO. 11655872  
1-5/8" 40.5 MM  
2-5/16" 58 MM  
1-1/4" 31 MM  
3/8" 9.5 MM  
1-7/8" 48 MM

Polyurethane Buffer (UV- and Cold Crack-resistant) is molded into (3) cavities of the Stainless Steel Base – eliminating a common issue of separation from gluing the Polyurethane Buffer to a flat Steel Base, documented in similar items on the market. U.S. PATENT 11,655,872

**MODEL 6102-9012**  
**BUFFER for SPREADER FLIPPER, Vertical Mount**

**FITS:** BROMMA SPREADERS **REPLACES:** BR47492  
**PLATE MATERIAL:** STAINLESS STEEL  
**PLATE FINISH:** MILL / SELF-COLOR  
**BUFFER MATERIAL:** POLYURETHANE  
**BUFFER COLOR:** BLUE **WEIGHT:** 0.9 LB / 0.4 Kg

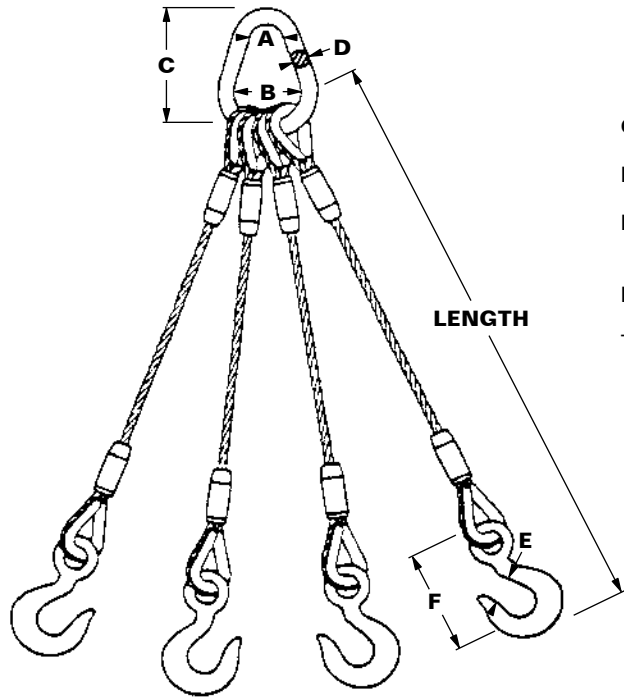
6" 152 MM  
5" 127 MM  
2-3/8" 60 MM  
I.D. 9/16" Ø14.3 MM  
Wear Grooves/Indicators (2)  
Stainless Steel Base  
Polyurethane Buffer  
US PATENT NO. 11655872 6102-9019  
15/16" 24 MM  
3-9/16" 90 MM  
5/8" 16 MM  
2-3/16" 56 MM  
5/16" 8 MM

Polyurethane Buffer (UV- and Cold Crack-resistant) is molded into (3) cavities of the Stainless Steel Base – eliminating a common issue of separation from gluing the Polyurethane Buffer to a flat Steel Base, documented in similar items on the market. U.S. PATENT 11,655,872

**MODEL 6102-9019**  
**BUFFER for SPREADER FLIPPER, Horizontal Mount (Up position)**

**FITS:** BROMMA SPREADERS **REPLACES:** BR48218  
**PLATE MATERIAL:** STAINLESS STEEL  
**PLATE FINISH:** MILL / SELF-COLOR  
**BUFFER MATERIAL:** POLYURETHANE  
**BUFFER COLOR:** BLUE **WEIGHT:** 1.1 LB / 0.5 Kg

6102



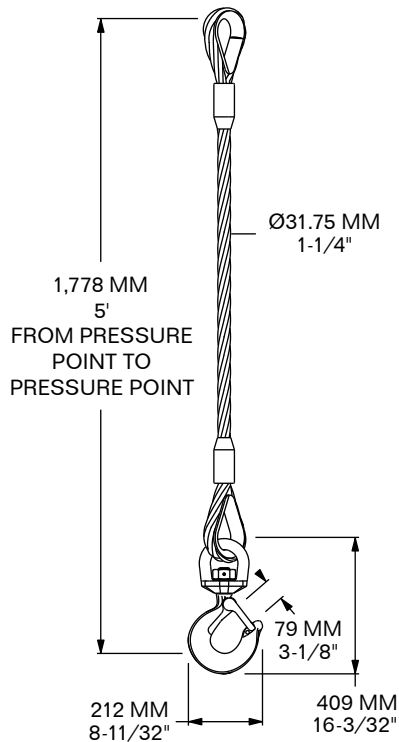
**SPECIAL ORDER ONLY** **MODEL 6103-1/2x15-4**

**CAPACITY PER SET:** AT 45° LIFT ANGLE – 6.2 M. TON SWL  
AT 60° LIFT ANGLE – 7.6 M. TON SWL  
**BREAK LOAD:** 5 x SWL (31–38 M. TON, 45–60° LIFT ANGLE)

**DIMENSIONS:** 15' LEG LENGTH (GIVES APPROXIMATELY  
60° LIFT ANGLE FOR 14' x 8' CONTAINER).

**HOOK:** EYE HOIST HOOK, 7.5 M. TON, CARBON  
THIMBLES FITTED BOTH ENDS.

- A:** 64 MM / 2-1/2"
- B:** 127 MM / 5"
- C:** 260 MM / 10-1/4"
- D:** 32 MM / 1-1/4"
- E:** 57 MM / 2-1/4"
- F:** 230 MM / 9-1/16"



**SPECIAL ORDER ONLY** **MODEL 6103-1.25x5-H**

**5' WIRE SLING w/ THIMBLES  
& SWIVEL HOOK ON ONE END**  
Hook fits into ISO Corner Casting

**WORKING LOAD LIMIT (WLL):** 12 M. TON  
**BREAK LOAD:** 5 x WLL: 60 M. TON

**ASSEMBLY WEIGHT:** 27.2 Kg / 60 LBS

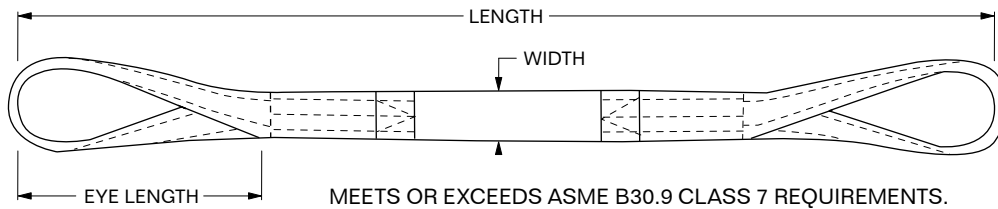
**HOOK:** SWIVEL HOIST HOOK w/ LATCH, 15 M. TON, CARBON

**6103**

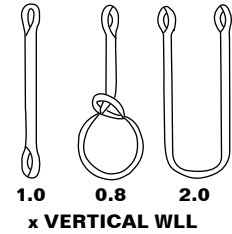


TWISTED EYE SLINGS, TYPE IV CLASS 7 w/ TAPERED EYE ON 2" AND WIDER.  
LENGTH IS PP TO PP WHEN STRAIGHT VERTICAL.

**SAFETY FACTOR 5:1**



VERTICAL CHOKER BASKET

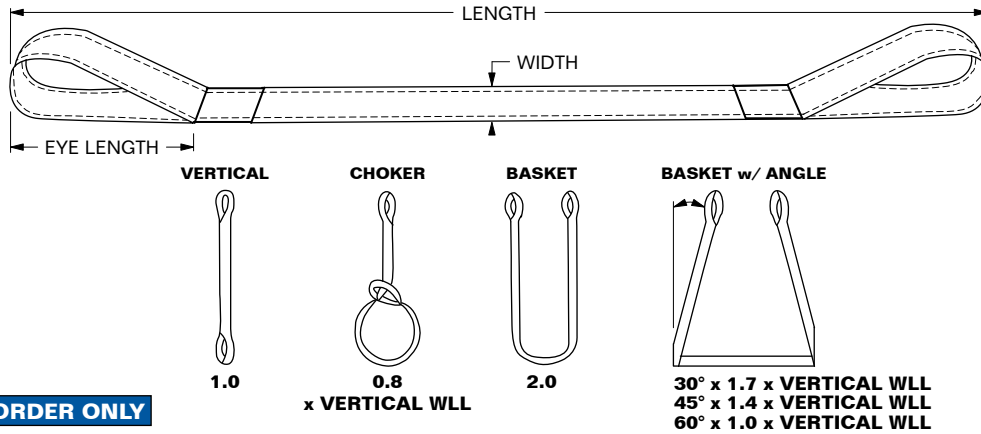


MODEL	LENGTH		WIDTH		EYE	COLOR	# OF PLY	WORKING LOAD LIMIT (WLL)						MBS		
								VERTICAL		CHOKER		BASKET		VERTICAL		
								LBS	Kg	LBS	Kg	LBS	Kg	LBS	Kg	
6104-7734	1,500 MM	4' 11"	32 MM	1-1/4"	230 MM	9"	VIOLET	2	3,900	1,770	3,120	1,415	7,800	3,538	19,500	8,850
6104-7735	1,500 MM	4' 11"	32 MM	1-1/4"	305 MM	12"	GREEN	3	5,125	2,325	4,100	1,860	10,250	4,649	25,625	11,625
6104-7736	2,000 MM	6' 6-3/4"	32 MM	1-1/4"	230 MM	9"	VIOLET	2	3,900	1,770	3,120	1,415	7,800	3,538	19,500	8,850
6104-7737	2,000 MM	6' 6-3/4"	32 MM	1-1/4"	305 MM	12"	GREEN	3	5,125	2,325	4,100	1,860	10,250	4,649	25,625	11,625
6104-7738	3,000 MM	9' 10"	32 MM	1-1/4"	230 MM	9"	VIOLET	2	3,900	1,770	3,120	1,415	7,800	3,538	19,500	8,850
6104-7739	3,000 MM	9' 10"	32 MM	1-1/4"	305 MM	12"	GREEN	3	5,125	2,325	4,100	1,860	10,250	4,649	25,625	11,625
6104-7740	4,000 MM	13' 1-1/2"	32 MM	1-1/4"	230 MM	9"	VIOLET	2	3,900	1,770	3,120	1,415	7,800	3,538	19,500	8,850
6104-7741	4,000 MM	13' 1-1/2"	32 MM	1-1/4"	305 MM	12"	GREEN	3	5,125	2,325	4,100	1,860	10,250	4,649	25,625	11,625
6104-7742	6,000 MM	19' 8-1/4"	32 MM	1-1/4"	230 MM	9"	VIOLET	2	3,900	1,770	3,120	1,415	7,800	3,538	19,500	8,850
6104-7743	6,000 MM	19' 8-1/4"	32 MM	1-1/4"	305 MM	12"	GREEN	3	5,125	2,325	4,100	1,860	10,250	4,649	25,625	11,625
6104-7748	1,500 MM	4' 11"	51 MM	2"	254 MM	10"	GREEN	2	6,200	2,812	4,960	2,250	12,400	5,625	31,000	14,060
6104-7749	2,500 MM	8' 2-1/4"	51 MM	2"	254 MM	10"	GREEN	2	6,200	2,812	4,960	2,250	12,400	5,625	31,000	14,060
6104-7750	2,000 MM	6' 6-3/4"	51 MM	2"	254 MM	10"	GREEN	2	6,200	2,812	4,960	2,250	12,400	5,625	31,000	14,060
6104-7751	2,000 MM	6' 6-3/4"	51 MM	2"	305 MM	12"	YELLOW	3	8,300	3,765	6,640	3,012	16,600	7,530	41,500	18,825
6104-7752	3,000 MM	9' 10"	51 MM	2"	254 MM	10"	GREEN	2	6,200	2,812	4,960	2,250	12,400	5,625	31,000	14,060
6104-7753	3,000 MM	9' 10"	51 MM	2"	305 MM	12"	YELLOW	3	8,300	3,765	6,640	3,012	16,600	7,530	41,500	18,825
6104-7754	4,000 MM	13' 1-1/2"	51 MM	2"	254 MM	10"	GREEN	2	6,200	2,812	4,960	2,250	12,400	5,625	31,000	14,060
6104-7755	4,000 MM	13' 1-1/2"	51 MM	2"	305 MM	12"	YELLOW	3	8,300	3,765	6,640	3,012	16,600	7,530	41,500	18,825
6104-7756	6,000 MM	19' 8-1/4"	51 MM	2"	254 MM	10"	GREEN	2	6,200	2,812	4,960	2,250	12,400	5,625	31,000	14,060
6104-7756-NC	6,100 MM	19' 8-1/4"	51 MM	2"	254 MM	10"	LT. BLUE	2	6,200	2,812	4,960	2,250	12,400	5,625	31,000	14,060
6104-7757	6,000 MM	19' 8-1/4"	51 MM	2"	305 MM	12"	YELLOW	3	8,300	3,765	6,640	3,012	16,600	7,530	41,500	18,825
6104-7762	1,500 MM	4' 11"	76 MM	3"	305 MM	12"	GRAY	2	9,300	4,220	7,440	3,375	18,600	8,437	46,500	21,100
6104-7763	1,500 MM	4' 11"	76 MM	3"	460 MM	18"	RED	3	12,500	5,670	10,000	4,536	25,000	11,340	62,500	28,350
6104-7764	2,000 MM	6' 6-3/4"	76 MM	3"	305 MM	12"	GRAY	2	9,300	4,220	7,440	3,375	18,600	8,437	46,500	21,100
6104-7765	2,000 MM	6' 6-3/4"	76 MM	3"	460 MM	18"	RED	3	12,500	5,670	10,000	4,536	25,000	11,340	62,500	28,350
6104-7766	3,000 MM	9' 10"	76 MM	3"	305 MM	12"	GRAY	2	9,300	4,220	7,440	3,375	18,600	8,437	46,500	21,100
6104-7767	3,000 MM	9' 10"	76 MM	3"	460 MM	18"	RED	3	12,500	5,670	10,000	4,536	25,000	11,340	62,500	28,350
6104-7768	4,000 MM	13' 1-1/2"	76 MM	3"	305 MM	12"	GRAY	2	9,300	4,220	7,440	3,375	18,600	8,437	46,500	21,100
6104-7769	4,000 MM	13' 1-1/2"	76 MM	3"	460 MM	18"	RED	3	12,500	5,670	10,000	4,536	25,000	11,340	62,500	28,350
6104-7770	6,000 MM	19' 8-1/4"	76 MM	3"	305 MM	12"	GRAY	2	9,300	4,220	7,440	3,375	18,600	8,437	46,500	21,100
6104-7771	6,000 MM	19' 8-1/4"	76 MM	3"	460 MM	18"	RED	3	12,500	5,670	10,000	4,536	25,000	11,340	62,500	28,350
6104-7776	1,500 MM	4' 11"	102 MM	4"	305 MM	12"	RED	2	11,020	5,000	8,816	4,000	22,040	10,000	55,100	25,000
6104-7777	1,500 MM	4' 11"	102 MM	4"	460 MM	18"	BROWN	3	16,000	7,260	12,800	5,806	32,000	14,515	80,000	36,300
6104-7778	2,000 MM	6' 6-3/4"	102 MM	4"	305 MM	12"	RED	2	11,020	5,000	8,816	4,000	22,040	10,000	55,100	25,000
6104-7779	2,000 MM	6' 6-3/4"	102 MM	4"	460 MM	18"	BROWN	3	16,000	7,260	12,800	5,806	32,000	14,515	80,000	36,300
6104-7780	3,000 MM	9' 10"	102 MM	4"	305 MM	12"	RED	2	11,020	5,000	8,816	4,000	22,040	10,000	55,100	25,000
6104-7781	3,000 MM	9' 10"	102 MM	4"	460 MM	18"	BROWN	3	16,000	7,260	12,800	5,806	32,000	14,515	80,000	36,300
6104-7786	3,000 MM	9' 10"	102 MM	4"	305 MM	18"	BLUE	4	22,046	10,000	17,637	8,000	44,092	20,000	110,230	50,000
6104-7782	4,000 MM	13' 1-1/2"	102 MM	4"	460 MM	12"	RED	2	11,020	5,000	8,816	4,000	22,040	10,000	55,100	25,000
6104-7783	4,000 MM	13' 1-1/2"	102 MM	4"	460 MM	18"	BROWN	3	16,000	7,260	12,800	5,806	32,000	14,515	80,000	36,300
6104-7787	4,000 MM	13' 1-1/2"	102 MM	4"	610 MM	24"	BLUE	4	22,046	10,000	17,637	8,000	44,092	20,000	110,230	50,000
6104-7784	6,000 MM	19' 8-1/4"	102 MM	4"	305 MM	12"	RED	2	11,020	5,000	8,816	4,000	22,040	10,000	55,100	25,000
6104-7785	6,000 MM	19' 8-1/4"	102 MM	4"	510 MM	20"	BROWN	3	16,000	7,260	12,800	5,806	32,000	14,515	80,000	36,300
6104-7788	6,000 MM	19' 8-1/4"	102 MM	4"	610 MM	24"	BLUE	4	22,046	10,000	17,637	8,000	44,092	20,000	110,230	50,000
6104-7790	1,500 MM	4' 11"	152 MM	6"	406 MM	16"	BROWN	2	16,500	7,485	13,200	5,988	33,000	14,969	82,500	37,425
6104-7791	1,500 MM	4' 11"	152 MM	6"	510 MM	20"	ORANGE	3	23,000	10,433	18,400	8,346	46,000	20,866	115,000	52,215
6104-7792	2,000 MM	6' 6-3/4"	152 MM	6"	406 MM	16"	BROWN	2	16,500	7,485	13,200	5,988	33,000	14,969	82,500	37,425
6104-7793	2,000 MM	6' 6-3/4"	152 MM	6"	510 MM	20"	ORANGE	3	23,000	10,433	18,400	8,346	46,000	20,866	115,000	52,215
6104-7794	3,000 MM	9' 10"	152 MM	6"	406 MM	16"	BROWN	2	16,500	7,485	13,200	5,988	33,000	14,969	82,500	37,425
6104-7795	3,000 MM	9' 10"	152 MM	6"	510 MM	20"	ORANGE	3	23,000	10,433	18,400	8,346	46,000	20,866	115,000	52,215
6104-7796	4,000 MM	13' 1-1/2"	152 MM	6"	406 MM	16"	BROWN	2	16,500	7,485	13,200	5,988	33,000	14,969	82,500	37,425
6104-7797	4,000 MM	13' 1-1/2"	152 MM	6"	510 MM	20"	ORANGE	3	23,000	10,433	18,400	8,346	46,000	20,866	115,000	52,215
6104-7798	6,000 MM	19' 8-1/4"	152 MM	6"	406 MM	16"	BROWN	2	16,500	7,485	13,200	5,988	33,000	14,969	82,500	37,425
6104-7799	6,000 MM	19' 8-1/4"	152 MM	6"	510 MM	20"	ORANGE	3	23,000	10,433	18,400	8,346	46,000	20,866	115,000	52,215

SPECIAL ORDER ONLY

6104

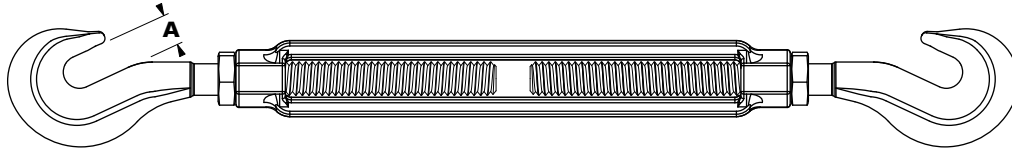




**SPECIAL ORDER ONLY**

MODEL	LENGTH		WIDTH		EYE		COLOR	SAFETY FACTOR	WORKING LOAD LIMIT (WLL)						MBS	
	MM	Ft.	MM	In.	MM	In.			VERTICAL		CHOKER		BASKET		VERTICAL	
									Kg	LBS	Kg	LBS	Kg	LBS	Kg	LBS
<b>6104-6770-B</b>	7,400	24' 4"	51	2"	230	9"	BLUE	5:1	930	2,050	744	1,640	1,860	4,100	4,650	10,250
<b>6104-6770-BC</b>	7,400	24' 4"	51	2"	230	9"	BLUE w/ Chiquita imprint	5:1	930	2,050	744	1,640	1,860	4,100	4,650	10,250
<b>6104-6770-Y</b>	7,400	24' 4"	51	2"	230	9"	YELLOW	5:1	930	2,050	744	1,640	1,860	4,100	4,650	10,250
<b>6104-6770-YC</b>	7,400	24' 4"	51	2"	230	9"	YELLOW w/ Chiquita imprint	5:1	930	2,050	744	1,640	1,860	4,100	4,650	10,250
<b>6104-6770-YDM</b>	7,400	24' 4"	51	2"	230	9"	YELLOW w/ Des Moines imprint	5:1	930	2,050	744	1,640	1,860	4,100	4,650	10,250
<b>6104-6771</b>	10,060	33'	51	2"	230	9"	WHITE	5:1	930	2,050	744	1,640	1,860	4,100	4,650	10,250
<b>6104-6772</b>	6,100	20'	51	2"	230	9"	RED	5:1	2,900	6,400	2,313	5,100	5,800	12,800	14,515	32,000
<b>6104-6773</b>	6,100	20'	25	1"	230	9"	GREEN	5:1	1,450	3,200	1,180	2,600	2,900	6,400	7,260	16,000
<b>6104-6774</b>	7,000	23'	51	2"	250	10"	ORANGE	6:1	800	1,760	640	1,408	1,600	3,520	4,800	10,560
<b>6104-6775</b>	8,000	26' 3"	70	2-3/4"	250	10"	BLUE	7:1	700	1,543	560	1,234	1,400	3,086	4,900	10,800

6104

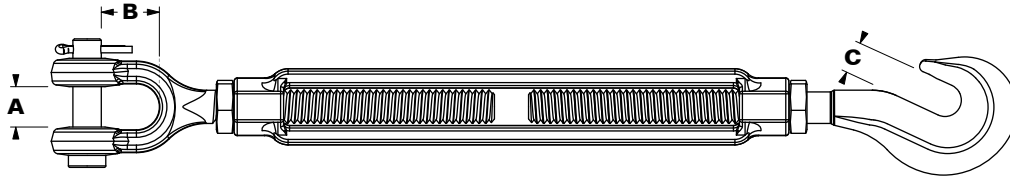


MODEL	THREAD DIAMETER & TAKE-UP	WORKING LOAD LIMIT	WEIGHT	DIMENSION A
6105-TB-1/4 x 4-H/H	1/4 x 4	400 LBS	0.13 Kg / 0.3 LBS	11.43 MM / 0.45"
6105-TB-5/16 x 4-1/2-H/H	5/16 x 4-1/2	700 LBS	0.21 Kg / 0.47 LBS	12.7 MM / 0.5"
6105-TB-3/8 x 6-H/H	3/8 x 6	1,000 LBS	0.34 Kg / 0.75 LBS	14.22 MM / 0.56"
6105-TB-1/2 x 6-H/H	1/2 x 6	1,500 LBS	0.73 Kg / 1.6 LBS	16.76 MM / 0.66"
6105-TB-1/2 x 9-H/H	1/2 x 9	1,500 LBS	0.83 Kg / 1.83 LBS	16.76 MM / 0.66"
6105-TB-1/2 x 12-H/H	1/2 x 12	1,500 LBS	0.94 Kg / 2.08 LBS	16.76 MM / 0.66"
6105-TB-5/8 x 6-H/H	5/8 x 6	2,250 LBS	1.25 Kg / 2.75 LBS	21.34 MM / 0.84"
6105-TB-5/8 x 9-H/H	5/8 x 9	2,250 LBS	1.42 Kg / 3.13 LBS	21.34 MM / 0.84"
6105-TB-5/8 x 12-H/H	5/8 x 12	2,250 LBS	1.58 Kg / 3.5 LBS	21.34 MM / 0.84"
6105-TB-3/4 x 6-H/H	3/4 x 6	3,000 LBS	1.76 Kg / 3.89 LBS	24.89 MM / 0.98"
6105-TB-3/4 x 9-H/H	3/4 x 9	3,000 LBS	2.09 Kg / 4.61 LBS	24.89 MM / 0.98"
6105-TB-3/4 x 12-H/H	3/4 x 12	3,000 LBS	2.46 Kg / 5.43 LBS	24.89 MM / 0.98"
6105-TB-3/4 x 18-H/H	3/4 x 18	3,000 LBS	3.28 Kg / 7.25 LBS	24.89 MM / 0.98"
6105-TB-7/8 x 12-H/H	7/8 x 12	4,000 LBS	3.67 Kg / 8.1 LBS	28.7 MM / 1.13"
6105-TB-7/8 x 18-H/H	7/8 x 18	4,000 LBS	4.51 Kg / 9.95 LBS	28.7 MM / 1.13"
6105-TB-1 x 6-H/H	1 x 6	5,000 LBS	4.23 Kg / 9.33 LBS	31.75 MM / 1.25"
6105-TB-1 x 12-H/H	1 x 12	5,000 LBS	5.41 Kg / 11.93 LBS	31.75 MM / 1.25"
6105-TB-1 x 18-H/H	1 x 18	5,000 LBS	6.35 Kg / 14 LBS	31.75 MM / 1.25"
6105-TB-1 x 24-H/H	1 x 24	5,000 LBS	7.82 Kg / 17.25 LBS	31.75 MM / 1.25"
6105-TB-1-1/4 x 12-H/H	1-1/4 x 12	6,500 LBS	8.61 Kg / 19 LBS	38.1 MM / 1.5"
6105-TB-1-1/4 x 18-H/H	1-1/4 x 18	6,500 LBS	10.43 Kg / 23 LBS	38.1 MM / 1.5"
6105-TB-1-1/4 x 24-H/H	1-1/4 x 24	6,500 LBS	12.25 Kg / 27 LBS	38.1 MM / 1.5"
6105-TB-1-1/2 x 12-H/H	1-1/2 x 12	7,500 LBS	12.47 Kg / 27.5 LBS	47.75 MM / 1.88"
6105-TB-1-1/2 x 18-H/H	1-1/2 x 18	7,500 LBS	14.06 Kg / 31 LBS	47.75 MM / 1.88"
6105-TB-1-1/2 x 24-H/H	1-1/2 x 24	7,500 LBS	17.01 Kg / 37.5 LBS	47.75 MM / 1.88"

6105

MBS: 5 x WLL

**MATERIAL:** FORGED STEEL  
**FINISH:** HOT-DIP GALVANIZED (HDG)

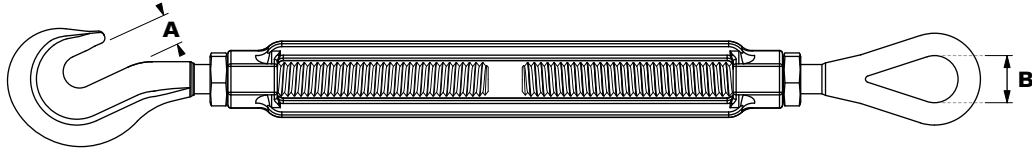


MODEL	THREAD DIAMETER & TAKE-UP	WORKING LOAD LIMIT	WEIGHT	DIMENSIONS		
				A	B	C
6105-TB-1/4 x 4-H/J	1/4 x 4	400 LBS	0.15 Kg / 0.32 LBS	11.43 MM / 0.45"	15.75 MM / 0.62"	11.43 MM / 0.45"
6105-TB-5/16 x 4-1/2-H/J	5/16 x 4-1/2	700 LBS	0.21 Kg / 0.47 LBS	12.7 MM / 0.5"	22.09 MM / 0.87"	12.7 MM / 0.5"
6105-TB-3/8 x 6-H/J	3/8 x 6	1,000 LBS	0.34 Kg / 0.76 LBS	13.72 MM / 0.54"	22.09 MM / 0.87"	14.22 MM / 0.56"
6105-TB-1/2 x 6-H/J	1/2 x 6	1,500 LBS	0.69 Kg / 1.53 LBS	16 MM / 0.63"	26.92 MM / 1.06"	16.76 MM / 0.66"
6105-TB-1/2 x 9-H/J	1/2 x 9	1,500 LBS	0.8 Kg / 1.76 LBS	13.97 MM / 0.55"	26.92 MM / 1.06"	16.76 MM / 0.66"
6105-TB-1/2 x 12-H/J	1/2 x 12	1,500 LBS	0.99 Kg / 2.2 LBS	13.97 MM / 0.55"	26.92 MM / 1.06"	16.76 MM / 0.66"
6105-TB-5/8 x 6-H/J	5/8 x 6	2,250 LBS	1.2 Kg / 2.65 LBS	20.83 MM / 0.82"	33.27 MM / 1.31"	21.34 MM / 0.84"
6105-TB-5/8 x 9-H/J	5/8 x 9	2,250 LBS	1.39 Kg / 3.06 LBS	20.83 MM / 0.82"	33.27 MM / 1.31"	21.34 MM / 0.84"
6105-TB-3/8 x 12-H/J	5/8 x 12	2,250 LBS	1.71 Kg / 3.78 LBS	20.83 MM / 0.82"	33.27 MM / 1.31"	21.34 MM / 0.84"
6105-TB-3/4 x 6-H/J	3/4 x 6	3,000 LBS	1.81 Kg / 4 LBS	26.16 MM / 1.03"	38.1 MM / 1.5"	24.89 MM / 0.98"
6105-TB-3/4 x 9-H/J	3/4 x 9	3,000 LBS	2.15 Kg / 4.75 LBS	26.16 MM / 1.03"	38.1 MM / 1.5"	24.89 MM / 0.98"
6105-TB-3/4 x 12-H/J	3/4 x 12	3,000 LBS	2.61 Kg / 5.76 LBS	26.16 MM / 1.03"	38.1 MM / 1.5"	24.89 MM / 0.98"
6105-TB-3/4 x 18-H/J	3/4 x 18	3,000 LBS	3.18 Kg / 7 LBS	26.16 MM / 1.03"	38.1 MM / 1.5"	24.89 MM / 0.98"
6105-TB-7/8 x 12-H/J	7/8 x 12	4,000 LBS	3.63 Kg / 8 LBS	31.24 MM / 1.23"	44.45 MM / 1.75"	28.7 MM / 1.13"
6105-TB-7/8 x 18-H/J	7/8 x 18	4,000 LBS	4.81 Kg / 10.6 LBS	31.24 MM / 1.23"	44.45 MM / 1.75"	28.7 MM / 1.13"
6105-TB-1 x 6-H/J	1 x 6	5,000 LBS	4.15 Kg / 9.16 LBS	33.27 MM / 1.31"	52.32 MM / 2.06"	31.75 MM / 1.25"
6105-TB-1 x 12-H/J	1 x 12	5,000 LBS	5.17 Kg / 11.4 LBS	33.27 MM / 1.31"	52.32 MM / 2.06"	31.75 MM / 1.25"
6105-TB-1 x 18-H/J	1 x 18	5,000 LBS	6.69 Kg / 14.75 LBS	33.27 MM / 1.31"	52.32 MM / 2.06"	31.75 MM / 1.25"
6105-TB-1 x 24-H/J	1 x 24	5,000 LBS	7.94 Kg / 17.5 LBS	33.27 MM / 1.31"	52.32 MM / 2.06"	31.75 MM / 1.25"
6105-TB-1-1/4 x 12-H/J	1-1/4 x 12	6,500 LBS	9.07 Kg / 20 LBS	47.24 MM / 1.86"	71.37 MM / 2.81"	38.1 MM / 1.5"
6105-TB-1-1/4 x 18-H/J	1-1/4 x 18	6,500 LBS	10.97 Kg / 24.18 LBS	47.24 MM / 1.86"	71.37 MM / 2.81"	38.1 MM / 1.5"
6105-TB-1-1/4 x 24-H/J	1-1/4 x 24	6,500 LBS	12.93 Kg / 28.5 LBS	47.24 MM / 1.86"	71.37 MM / 2.81"	38.1 MM / 1.5"
6105-TB-1-1/2 x 12-H/J	1-1/2 x 12	7,500 LBS	14.11 Kg / 31.1 LBS	57.15 MM / 2.25"	71.37 MM / 2.81"	47.75 MM / 1.88"
6105-TB-1-1/2 x 18-H/J	1-1/2 x 18	7,500 LBS	15.88 Kg / 35 LBS	57.15 MM / 2.25"	71.37 MM / 2.81"	47.75 MM / 1.88"
6105-TB-1-1/2 x 24-H/J	1-1/2 x 24	7,500 LBS	20.05 Kg / 44.2 LBS	57.15 MM / 2.25"	71.37 MM / 2.81"	47.75 MM / 1.88"

6105

MBS: 5 x WLL

**MATERIAL:** FORGED STEEL  
**FINISH:** HOT-DIP GALVANIZED (HDG)

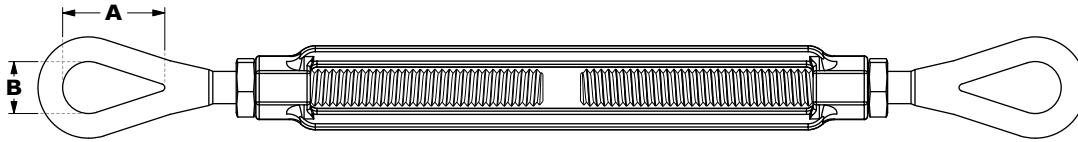


MODEL	THREAD DIAMETER & TAKE-UP	WORKING LOAD LIMIT	WEIGHT	DIMENSIONS	
				A	B
6105-TB-1/4 x 4-H/E	1/4 x 4	400 LBS	0.13 Kg / 0.3 LBS	11.43 MM / 0.45"	8.63 MM / 0.34"
6105-TB-5/16 x 4-1/2-H/E	5/16 x 4-1/2	700 LBS	0.21 Kg / 0.47 LBS	12.7 MM / 0.5"	11.18 MM / 0.44"
6105-TB-3/8 x 6-H/E	3/8 x 6	1,000 LBS	0.34 Kg / 0.75 LBS	14.22 MM / 0.56"	13.46 MM / 0.53"
6105-TB-1/2 x 6-H/E	1/2 x 6	1,500 LBS	0.73 Kg / 1.6 LBS	16.76 MM / 0.66"	18.54 MM / 0.72"
6105-TB-1/2 x 9-H/E	1/2 x 9	1,500 LBS	0.83 Kg / 1.83 LBS	16.76 MM / 0.66"	18.54 MM / 0.72"
6105-TB-1/2 x 12-H/E	1/2 x 12	1,500 LBS	0.94 Kg / 2.08 LBS	16.76 MM / 0.66"	18.54 MM / 0.72"
6105-TB-5/8 x 6-H/E	5/8 x 6	2,250 LBS	1.25 Kg / 2.75 LBS	21.34 MM / 0.84"	22.35 MM / 0.88"
6105-TB-5/8 x 9-H/E	5/8 x 9	2,250 LBS	1.42 Kg / 3.13 LBS	21.34 MM / 0.84"	22.35 MM / 0.88"
6105-TB-5/8 x 12-H/E	5/8 x 12	2,250 LBS	1.58 Kg / 3.5 LBS	21.34 MM / 0.84"	22.35 MM / 0.88"
6105-TB-3/4 x 6-H/E	3/4 x 6	3,000 LBS	1.76 Kg / 3.89 LBS	24.89 MM / 0.98"	25.4 MM / 1"
6105-TB-3/4 x 9-H/E	3/4 x 9	3,000 LBS	2.09 Kg / 4.61 LBS	24.89 MM / 0.98"	25.4 MM / 1"
6105-TB-3/4 x 12-H/E	3/4 x 12	3,000 LBS	2.46 Kg / 5.43 LBS	24.89 MM / 0.98"	25.4 MM / 1"
6105-TB-3/4 x 18-H/E	3/4 x 18	3,000 LBS	3.28 Kg / 7.25 LBS	24.89 MM / 0.98"	25.4 MM / 1"
6105-TB-7/8 x 12-H/E	7/8 x 12	4,000 LBS	3.67 Kg / 8.1 LBS	28.7 MM / 1.13"	31.75 MM / 1.25"
6105-TB-7/8 x 18-H/E	7/8 x 18	4,000 LBS	4.51 Kg / 9.95 LBS	28.7 MM / 1.13"	31.75 MM / 1.25"
6105-TB-1 x 6-H/E	1 x 6	5,000 LBS	4.23 Kg / 9.33 LBS	31.75 MM / 1.25"	36.58 MM / 1.44"
6105-TB-1 x 12-H/E	1 x 12	5,000 LBS	5.41 Kg / 11.93 LBS	31.75 MM / 1.25"	36.58 MM / 1.44"
6105-TB-1 x 18-H/E	1 x 18	5,000 LBS	6.35 Kg / 14 LBS	31.75 MM / 1.25"	36.58 MM / 1.44"
6105-TB-1 x 24-H/E	1 x 24	5,000 LBS	7.82 Kg / 17.25 LBS	31.75 MM / 1.25"	36.58 MM / 1.44"
6105-TB-1-1/4 x 12-H/E	1-1/4 x 12	6,500 LBS	8.61 Kg / 19 LBS	38.1 MM / 1.5"	45.97 MM / 1.81"
6105-TB-1-1/4 x 18-H/E	1-1/4 x 18	6,500 LBS	10.43 Kg / 23 LBS	38.1 MM / 1.5"	45.97 MM / 1.81"
6105-TB-1-1/4 x 24-H/E	1-1/4 x 24	6,500 LBS	12.25 Kg / 27 LBS	38.1 MM / 1.5"	45.97 MM / 1.81"
6105-TB-1-1/2 x 12-H/E	1-1/2 x 12	7,500 LBS	12.47 Kg / 27.5 LBS	47.75 MM / 1.88"	53.85 MM / 2.12"
6105-TB-1-1/2 x 18-H/E	1-1/2 x 18	7,500 LBS	14.06 Kg / 31 LBS	47.75 MM / 1.88"	53.85 MM / 2.12"
6105-TB-1-1/2 x 24-H/E	1-1/2 x 24	7,500 LBS	17.01 Kg / 37.5 LBS	47.75 MM / 1.88"	53.85 MM / 2.12"

6105

MBS: 5 x WLL

**MATERIAL:** FORGED STEEL  
**FINISH:** HOT-DIP GALVANIZED (HDG)

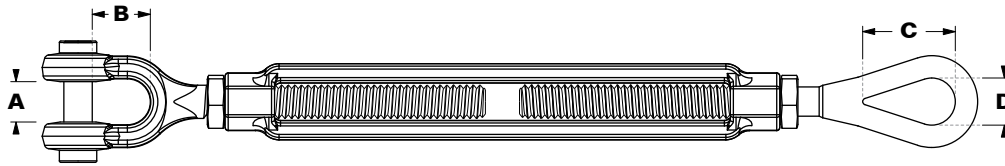


MODEL	THREAD DIAMETER & TAKE-UP	WORKING LOAD LIMIT	WEIGHT	DIMENSIONS	
				A	B
6105-TB-1/4 x 4-E/E	1/4 x 4	500 LBS	0.14 Kg / 0.3 LBS	19.81 MM / 0.78"	8.64 MM / 0.34"
6105-TB-5/16 x 4-1/2-E/E	5/16 x 4-1/2	800 LBS	0.21 Kg / 0.46 LBS	23.88 MM / 0.94"	11.18 MM / 0.44"
6105-TB-3/8 x 6-E/E	3/8 x 6	1,200 LBS	0.33 Kg / 0.73 LBS	28.45 MM / 1.12"	13.46 MM / 0.53"
6105-TB-1/2 x 6-E/E	1/2 x 6	2,200 LBS	0.66 Kg / 1.46 LBS	36.57 MM / 1.44"	18.28 MM / 0.72"
6105-TB-1/2 x 9-E/E	1/2 x 9	2,200 LBS	0.78 Kg / 1.71 LBS	36.57 MM / 1.44"	18.28 MM / 0.72"
6105-TB-1/2 x 12-E/E	1/2 x 12	2,200 LBS	0.99 Kg / 2.19 LBS	36.57 MM / 1.44"	18.28 MM / 0.72"
6105-TB-5/8 x 6-E/E	5/8 x 6	3,500 LBS	1.12 Kg / 2.47 LBS	44.45 MM / 1.75"	22.35 MM / 0.88"
6105-TB-5/8 x 9-E/E	5/8 x 9	3,500 LBS	1.32 Kg / 2.9 LBS	44.45 MM / 1.75"	22.35 MM / 0.88"
6105-TB-5/8 x 12-E/E	5/8 x 12	3,500 LBS	1.50 Kg / 3.3 LBS	44.45 MM / 1.75"	22.35 MM / 0.88"
6105-TB-3/4 x 6-E/E	3/4 x 6	5,200 LBS	1.77 Kg / 3.9 LBS	53.09 MM / 2.09"	25.4 MM / 1"
6105-TB-3/4 x 9-E/E	3/4 x 9	5,200 LBS	2.07 Kg / 4.6 LBS	53.09 MM / 2.09"	25.4 MM / 1"
6105-TB-3/4 x 12-E/E	3/4 x 12	5,200 LBS	2.47 Kg / 5.46 LBS	53.09 MM / 2.09"	25.4 MM / 1"
6105-TB-3/4 x 18-E/E	3/4 x 18	5,200 LBS	3.16 Kg / 6.97 LBS	53.09 MM / 2.09"	25.4 MM / 1"
6105-TB-7/8 x 6-E/E	7/8 x 6	7,200 LBS	2.65 Kg / 5.85 LBS	60.45 MM / 2.38"	31.75 MM / 1.25"
6105-TB-7/8 x 12-E/E	7/8 x 12	7,200 LBS	3.47 Kg / 7.65 LBS	60.45 MM / 2.38"	31.75 MM / 1.25"
6105-TB-7/8 x 18-E/E	7/8 x 18	7,200 LBS	4.65 Kg / 10.25 LBS	60.45 MM / 2.38"	31.75 MM / 1.25"
6105-TB-1 x 6-E/E	1 x 6	10,000 LBS	4.07 Kg / 8.98 LBS	76.2 MM / 3"	36.58 MM / 1.44"
6105-TB-1 x 12-E/E	1 x 12	10,000 LBS	5.13 Kg / 11.31 LBS	76.2 MM / 3"	36.58 MM / 1.44"
6105-TB-1 x 18-E/E	1 x 18	10,000 LBS	6.35 Kg / 14 LBS	76.2 MM / 3"	36.58 MM / 1.44"
6105-TB-1 x 24-E/E	1 x 24	10,000 LBS	7.27 Kg / 16.02 LBS	76.2 MM / 3"	36.58 MM / 1.44"
6105-TB-1-1/4 x 6-E/E	1-1/4 x 6	15,200 LBS	7.01 Kg / 15.45 LBS	90.42 MM / 3.56"	45.97 MM / 1.81"
6105-TB-1-1/4 x 12-E/E	1-1/4 x 12	15,200 LBS	8.61 Kg / 19 LBS	90.42 MM / 3.56"	45.97 MM / 1.81"
6105-TB-1-1/4 x 18-E/E	1-1/4 x 18	15,200 LBS	10.21 Kg / 22.5 LBS	90.42 MM / 3.56"	45.97 MM / 1.81"
6105-TB-1-1/4 x 24-E/E	1-1/4 x 24	15,200 LBS	11.34 Kg / 25 LBS	90.42 MM / 3.56"	45.97 MM / 1.81"
6105-TB-1-1/2 x 12-E/E	1-1/2 x 12	21,400 LBS	12.25 Kg / 27 LBS	103.12 MM / 4.06"	53.85 MM / 2.12"
6105-TB-1-1/2 x 18-E/E	1-1/2 x 18	21,400 LBS	14.37 Kg / 31.69 LBS	103.12 MM / 4.06"	53.85 MM / 2.12"
6105-TB-1-1/2 x 24-E/E	1-1/2 x 24	21,400 LBS	17.33 Kg / 38.2 LBS	103.12 MM / 4.06"	53.85 MM / 2.12"
6105-TB-1-3/4 x 18-E/E	1-3/4 x 18	28,000 LBS	20.5 Kg / 45.2 LBS	117.35 MM / 4.62"	60.45 MM / 2.38"
6105-TB-1-3/4 x 24-E/E	1-3/4 x 24	28,000 LBS	26.31 Kg / 58 LBS	117.35 MM / 4.62"	60.45 MM / 2.38"
6105-TB-2 x 24-E/E	2 x 24	37,000 LBS	36.99 Kg / 81.57 LBS	146.05 MM / 5.75"	68.33 MM / 2.69"
6105-TB-2-1/2 x 24-E/E	2-1/2 x 24	60,000 LBS	81.65 Kg / 180 LBS	165.1 MM / 6.5"	79.25 MM / 3.12"
6105-TB-2-3/4 x 24-E/E	2-3/4 x 24	75,000 LBS	95.25 Kg / 210 LBS	177.8 MM / 7"	82.55 MM / 3.25"

6105

MBS: 5 x WLL

**MATERIAL:** FORGED STEEL  
**FINISH:** HOT-DIP GALVANIZED (HDG)

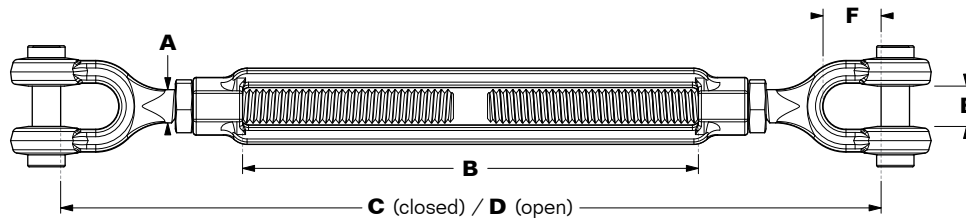


MODEL	THREAD DIAMETER & TAKE-UP	WORKING LOAD LIMIT	WEIGHT	DIMENSIONS			
				A	B	C	D
6105-TB-1/4 x 4-J/E	1/4 x 4	500 LBS	0.15 Kg / 0.32 LBS	11.43 MM / 0.45"	15.75 MM / 0.62"	19.81 MM / 0.78"	8.64 MM / 0.34"
6105-TB-5/16 x 4-1/2-J/E	5/16 x 4-1/2	800 LBS	0.21 Kg / 0.47 LBS	12.7 MM / 0.5"	22.1 MM / 0.87"	23.88 MM / 0.94"	11.18 MM / 0.44"
6105-TB-3/8 x 6-J/E	3/8 x 6	1,200 LBS	0.34 Kg / 0.76 LBS	13.72 MM / 0.54"	22.1 MM / 0.87"	28.45 MM / 1.12"	13.46 MM / 0.53"
6105-TB-1/2 x 6-J/E	1/2 x 6	2,200 LBS	0.69 Kg / 1.53 LBS	16 MM / 0.63"	26.92 MM / 1.06"	36.57 MM / 1.44"	18.28 MM / 0.72"
6105-TB-1/2 x 9-J/E	1/2 x 9	2,200 LBS	0.87 Kg / 1.91 LBS	13.97 MM / 0.55"	26.92 MM / 1.06"	36.57 MM / 1.44"	18.28 MM / 0.72"
6105-TB-1/2 x 12-J/E	1/2 x 12	2,200 LBS	0.99 Kg / 2.2 LBS	13.97 MM / 0.55"	26.92 MM / 1.06"	36.57 MM / 1.44"	18.28 MM / 0.72"
6105-TB-5/8 x 6-J/E	5/8 x 6	3,500 LBS	1.2 Kg / 2.65 LBS	20.83 MM / 0.82"	33.27 MM / 1.31"	44.45 MM / 1.75"	22.35 MM / 0.88"
6105-TB-5/8 x 9-J/E	5/8 x 9	3,500 LBS	1.39 Kg / 3.06 LBS	20.83 MM / 0.82"	33.27 MM / 1.31"	44.45 MM / 1.75"	22.35 MM / 0.88"
6105-TB-5/8 x 12-J/E	5/8 x 12	3,500 LBS	1.71 Kg / 3.78 LBS	20.83 MM / 0.82"	33.27 MM / 1.31"	44.45 MM / 1.75"	22.35 MM / 0.88"
6105-TB-3/4 x 6-J/E	3/4 x 6	5,200 LBS	1.81 Kg / 4 LBS	26.16 MM / 1.03"	38.1 MM / 1.5"	53.09 MM / 2.09"	25.4 MM / 1"
6105-TB-3/4 x 9-J/E	3/4 x 9	5,200 LBS	2.15 Kg / 4.75 LBS	26.16 MM / 1.03"	38.1 MM / 1.5"	53.09 MM / 2.09"	25.4 MM / 1"
6105-TB-3/4 x 12-J/E	3/4 x 12	5,200 LBS	2.61 Kg / 5.76 LBS	26.16 MM / 1.03"	38.1 MM / 1.5"	53.09 MM / 2.09"	25.4 MM / 1"
6105-TB-3/4 x 18-J/E	3/4 x 18	5,200 LBS	3.18 Kg / 7 LBS	26.16 MM / 1.03"	38.1 MM / 1.5"	53.09 MM / 2.09"	25.4 MM / 1"
6105-TB-7/8 x 6-J/E	7/8 x 6	7,200 LBS	2.85 Kg / 6.29 LBS	31.24 MM / 1.23"	44.45 MM / 1.75"	60.45 MM / 2.38"	31.75 MM / 1.25"
6105-TB-7/8 x 12-J/E	7/8 x 12	7,200 LBS	3.63 Kg / 8 LBS	31.24 MM / 1.23"	44.45 MM / 1.75"	60.45 MM / 2.38"	31.75 MM / 1.25"
6105-TB-7/8 x 18-J/E	7/8 x 18	7,200 LBS	4.81 Kg / 10.6 LBS	31.24 MM / 1.23"	44.45 MM / 1.75"	60.45 MM / 2.38"	31.75 MM / 1.25"
6105-TB-1 x 6-J/E	1 x 6	10,000 LBS	4.15 Kg / 9.16 LBS	33.27 MM / 1.31"	52.32 MM / 2.06"	76.2 MM / 3"	36.58 MM / 1.44"
6105-TB-1 x 12-J/E	1 x 12	10,000 LBS	5.17 Kg / 11.4 LBS	33.27 MM / 1.31"	52.32 MM / 2.06"	76.2 MM / 3"	36.58 MM / 1.44"
6105-TB-1 x 18-J/E	1 x 18	10,000 LBS	6.69 Kg / 14.75 LBS	33.27 MM / 1.31"	52.32 MM / 2.06"	76.2 MM / 3"	36.58 MM / 1.44"
6105-TB-1 x 24-J/E	1 x 24	10,000 LBS	7.94 Kg / 17.5 LBS	33.27 MM / 1.31"	52.32 MM / 2.06"	76.2 MM / 3"	36.58 MM / 1.44"
6105-TB-1-1/4 x 6-J/E	1-1/4 x 6	15,200 LBS	7.39 Kg / 16.3 LBS	47.24 MM / 1.86"	71.37 MM / 2.81"	90.42 MM / 3.56"	45.97 MM / 1.81"
6105-TB-1-1/4 x 12-J/E	1-1/4 x 12	15,200 LBS	9.07 Kg / 20 LBS	47.24 MM / 1.86"	71.37 MM / 2.81"	90.42 MM / 3.56"	45.97 MM / 1.81"
6105-TB-1-1/4 x 18-J/E	1-1/4 x 18	15,200 LBS	10.97 Kg / 24.18 LBS	47.24 MM / 1.86"	71.37 MM / 2.81"	90.42 MM / 3.56"	45.97 MM / 1.81"
6105-TB-1-1/4 x 24-J/E	1-1/4 x 24	15,200 LBS	12.93 Kg / 28.5 LBS	47.24 MM / 1.86"	71.37 MM / 2.81"	90.42 MM / 3.56"	45.97 MM / 1.81"
6105-TB-1-1/2 x 12-J/E	1-1/2 x 12	21,400 LBS	13.9 Kg / 30.65 LBS	57.15 MM / 2.25"	71.37 MM / 2.81"	103.12 MM / 4.06"	53.85 MM / 2.12"
6105-TB-1-1/2 x 18-J/E	1-1/2 x 18	21,400 LBS	15.87 Kg / 35 LBS	57.15 MM / 2.25"	71.37 MM / 2.81"	103.12 MM / 4.06"	53.85 MM / 2.12"
6105-TB-1-1/2 x 24-J/E	1-1/2 x 24	21,400 LBS	20.05 Kg / 44.2 LBS	57.15 MM / 2.25"	71.37 MM / 2.81"	103.12 MM / 4.06"	53.85 MM / 2.12"
6105-TB-1-3/4 x 18-J/E	1-3/4 x 18	28,000 LBS	22.14 Kg / 48.8 LBS	66.04 MM / 2.6"	85.85 MM / 3.38"	117.35 MM / 4.62"	60.45 MM / 2.38"
6105-TB-1-3/4 x 24-J/E	1-3/4 x 24	28,000 LBS	27.22 Kg / 60 LBS	66.04 MM / 2.6"	85.85 MM / 3.38"	117.35 MM / 4.62"	60.45 MM / 2.38"
6105-TB-2 x 24-J/E	2 x 24	37,000 LBS	46.27 Kg / 102 LBS	66.55 MM / 2.62"	93.73 MM / 3.69"	146.05 MM / 5.75"	68.33 MM / 2.69"
6105-TB-2-1/2 x 24-J/E	2-1/2 x 24	60,000 LBS	83.01 Kg / 183 LBS	77.72 MM / 3.06"	112.78 MM / 4.44"	165.1 MM / 6.5"	79.25 MM / 3.12"
6105-TB-2-3/4 x 24-J/E	2-3/4 x 24	75,000 LBS	97.07 Kg / 214 LBS	93.47 MM / 3.68"	106.43 MM / 4.19"	177.8 MM / 7"	82.55 MM / 3.25"

MBS: 5 x WLL

**MATERIAL:** FORGED STEEL  
**FINISH:** HOT-DIP GALVANIZED (HDG)

6105



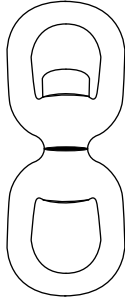
MODEL	Working Load Limit (WLL)	Thread Diameter A	Take-Up B	Operating Range		Jaw Opening E	Jaw Clearance F	WEIGHT
				C (Min.)	D (Max.)			
6105-TB-1/4x4-J/J	500 LBS	1/4"	4"	6-7/8"	10-7/8"	11.43 MM / 0.45"	15.75 MM / 0.62"	0.16 Kg / 0.36 LBS
6105-TB-5/16x4-1/2-J/J	800 LBS	5/16"	4-1/2"	8-3/8"	12-3/8"	12.7 MM / 0.5"	22.1 MM / 0.87"	0.24 Kg / 0.52 LBS
6105-TB-3/8x6-J/J	1,200 LBS	3/8"	6"	11-3/8"	17-3/8"	13.72 MM / 0.54"	22.1 MM / 0.87"	0.37 Kg / 0.81 LBS
6105-TB-1/2x6-J/J	2,200 LBS	1/2"	6"	11-1/2"	18-1/2"	13.97 MM / 0.55"	26.92 MM / 1.06"	0.71 Kg / 1.56 LBS
6105-TB-1/2x9-J/J	2,200 LBS	1/2"	9"	14-1/2"	24-1/2"	13.97 MM / 0.55"	26.92 MM / 1.06"	0.79 Kg / 1.74 LBS
6105-TB-1/2x12-J/J	2,200 LBS	1/2"	12"	17-1/2"	30-1/2"	13.97 MM / 0.55"	26.92 MM / 1.06"	1.09 Kg / 2.4 LBS
6105-TB-5/8x6-J/J	3,500 LBS	5/8"	6"	12-3/4"	20"	20.83 MM / 0.82"	33.27 MM / 1.31"	1.23 Kg / 2.72 LBS
6105-TB-5/8x9-J/J	3,500 LBS	5/8"	9"	15-3/4"	26"	20.83 MM / 0.82"	33.27 MM / 1.31"	1.56 Kg / 3.43 LBS
6105-TB-5/8x12-J/J	3,500 LBS	5/8"	12"	18-3/4"	32"	20.83 MM / 0.82"	33.27 MM / 1.31"	1.77 Kg / 3.91 LBS
6105-TB-3/4x6-J/J	5,200 LBS	3/4"	6"	14"	21-1/2"	26.16 MM / 1.03"	38.1 MM / 1.5"	1.86 Kg / 4.11 LBS
6105-TB-3/4x9-J/J	5,200 LBS	3/4"	9"	17"	27-1/2"	26.16 MM / 1.03"	38.1 MM / 1.5"	2.4 Kg / 5.46 LBS
6105-TB-3/4x12-J/J	5,200 LBS	3/4"	12"	20"	33-1/2"	26.16 MM / 1.03"	38.1 MM / 1.5"	2.98 Kg / 6.56 LBS
6105-TB-3/4x18-J/J	5,200 LBS	3/4"	18"	26"	45-1/2"	26.16 MM / 1.03"	38.1 MM / 1.5"	3.64 Kg / 8.03 LBS
6105-TB-7/8x12-J/J	7,200 LBS	7/8"	12"	21-3/8"	35-1/8"	31.24 MM / 1.23"	44.45 MM / 1.75"	3.7 Kg / 8.17 LBS
6105-TB-7/8x18-J/J	7,200 LBS	7/8"	18"	27-3/8"	47-1/8"	31.24 MM / 1.23"	44.45 MM / 1.75"	4.89 Kg / 10.78 LBS
6105-TB-1x6-J/J	10,000 LBS	1"	6"	16-3/4"	24-3/4"	33.27 MM / 1.31"	54.86 MM / 2.16"	4.62 Kg / 10.18 LBS
6105-TB-1x12-J/J	10,000 LBS	1"	12"	22-3/4"	36-3/4"	33.27 MM / 1.31"	54.86 MM / 2.16"	5.96 Kg / 13.14 LBS
6105-TB-1x18-J/J	10,000 LBS	1"	18"	28-3/4"	48-3/4"	33.27 MM / 1.31"	54.86 MM / 2.16"	6.87 Kg / 15.14 LBS
6105-TB-1x24-J/J	10,000 LBS	1"	24"	34-3/4"	60-3/4"	33.27 MM / 1.31"	54.86 MM / 2.16"	8.2 Kg / 18.08 LBS
6105-TB-1-1/4x12-J/J	15,200 LBS	1-1/4"	12"	25-3/8"	39-7/8"	47.24 MM / 1.86"	71.37 MM / 2.81"	9.34 Kg / 20.59 LBS
6105-TB-1-1/4x18-J/J	15,200 LBS	1-1/4"	18"	31-3/8"	51-7/8"	47.24 MM / 1.86"	71.37 MM / 2.81"	11.19 Kg / 24.68 LBS
6105-TB-1-1/4x24-J/J	15,200 LBS	1-1/4"	24"	37-3/8"	63-7/8"	47.24 MM / 1.86"	71.37 MM / 2.81"	12.79 Kg / 28.2 LBS
6105-TB-1-1/2x12-J/J	21,400 LBS	1-1/2"	12"	26-1/2"	41-1/2"	57.15 MM / 2.25"	71.37 MM / 2.81"	13.92 Kg / 30.69 LBS
6105-TB-1-1/2x18-J/J	21,400 LBS	1-1/2"	18"	32-1/2"	53-1/2"	57.15 MM / 2.25"	71.37 MM / 2.81"	16.67 Kg / 36.75 LBS
6105-TB-1-1/2x24-J/J	21,400 LBS	1-1/2"	24"	38-1/2"	65-1/2"	57.15 MM / 2.25"	71.37 MM / 2.81"	18.87 Kg / 41.6 LBS
6105-TB-1-3/4x18-J/J	28,000 LBS	1-3/4"	18"	35-3/8"	53-3/8"	66.04 MM / 2.6"	85.85 MM / 3.38"	24.49 Kg / 54 LBS
6105-TB-1-3/4x24-J/J	28,000 LBS	1-3/4"	24"	41-3/8"	65-3/8"	66.04 MM / 2.6"	85.85 MM / 3.38"	28.74 Kg / 63.36 LBS
6105-TB-2x24-J/J	37,000 LBS	2"	24"	45-1/2"	69-1/2"	66.55 MM / 2.62"	93.73 MM / 3.69"	42.75 Kg / 94.25 LBS
6105-TB-2-1/2x24-J/J	60,000 LBS	2-1/2"	24"	49"	73"	77.72 MM / 3.06"	112.78 MM / 4.44"	74.84 Kg / 165 LBS
6105-TB-2-3/4x24-J/J	75,000 LBS	2-3/4"	24"	50-3/4"	74-3/4"	93.47 MM / 3.68"	106.43 MM / 4.19"	89.81 Kg / 198 LBS

6105

Minimum Break Strength (MBS): 5 x WLL

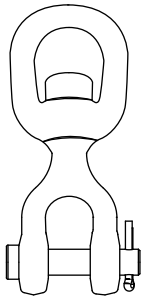
**MATERIAL:** FORGED STEEL  
**FINISH:** HOT-DIP GALVANIZED (HDG)

### SWIVEL - EYE / EYE



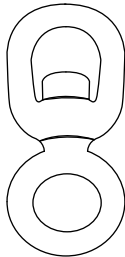
MODEL	SIZE	WORKING LOAD LIMIT	WEIGHT
6106-SW-1/4-E/E	1/4"	850 LBS	0.1 Kg / 0.21 LBS
6106-SW-5/16-E/E	5/16"	1,250 LBS	0.18 Kg / 0.39 LBS
6106-SW-3/8-E/E	3/8"	2,250 LBS	0.34 Kg / 0.75 LBS
6106-SW-1/2-E/E	1/2"	3,600 LBS	0.65 Kg / 1.43 LBS
6106-SW-5/8-E/E	5/8"	5,200 LBS	1.13 Kg / 2.5 LBS
6106-SW-3/4-E/E	3/4"	7,200 LBS	1.87 Kg / 4.13 LBS
6106-SW-7/8-E/E	7/8"	10,000 LBS	2.83 Kg / 6.25 LBS
6106-SW-1-E/E	1"	12,500 LBS	4.06 Kg / 8.95 LBS
6106-SW-1-1/8-E/E	1-1/8"	16,500 LBS	4.99 Kg / 11 LBS
6106-SW-1-1/4-E/E	1-1/4"	18,000 LBS	7.43 Kg / 16.37 LBS
6106-SW-1-1/2-E/E	1-1/2"	45,200 LBS	22.25 Kg / 49.06 LBS

### SWIVEL - JAW / EYE



MODEL	SIZE	WORKING LOAD LIMIT	WEIGHT
6106-SW-1/4-J/E	1/4"	850 LBS	0.1 Kg / 0.21 LBS
6106-SW-5/16-J/E	5/16"	1,250 LBS	0.15 Kg / 0.34 LBS
6106-SW-3/8-J/E	3/8"	2,250 LBS	0.3 Kg / 0.66 LBS
6106-SW-1/2-J/E	1/2"	3,600 LBS	0.61 Kg / 1.34 LBS
6106-SW-5/8-J/E	5/8"	5,200 LBS	1.12 Kg / 2.48 LBS
6106-SW-3/4-J/E	3/4"	7,200 LBS	1.76 Kg / 3.88 LBS
6106-SW-7/8-J/E	7/8"	10,000 LBS	2.66 Kg / 5.87 LBS
6106-SW-1-J/E	1"	12,500 LBS	4.46 Kg / 9.84 LBS
6106-SW-1-1/8-J/E	1-1/8"	16,500 LBS	5.8 Kg / 12.8 LBS
6106-SW-1-1/4-J/E	1-1/4"	18,000 LBS	7.14 Kg / 15.75 LBS
6106-SW-1-1/2-J/E	1-1/2"	45,200 LBS	24.83 Kg / 54.75 LBS

### SWIVEL - RING / EYE



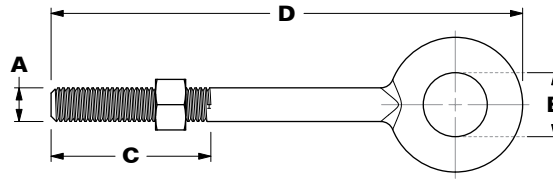
MODEL	SIZE	WORKING LOAD LIMIT	WEIGHT
6106-SW-1/4-R/E	1/4"	850 LBS	0.06 Kg / 0.13 LBS
6106-SW-5/16-R/E	5/16"	1,250 LBS	0.12 Kg / 0.26 LBS
6106-SW-3/8-R/E	3/8"	2,250 LBS	0.25 Kg / 0.55 LBS
6106-SW-1/2-R/E	1/2"	3,600 LBS	0.51 Kg / 1.12 LBS
6106-SW-5/8-R/E	5/8"	5,200 LBS	0.95 Kg / 2.09 LBS
6106-SW-3/4-R/E	3/4"	7,200 LBS	1.45 Kg / 3.19 LBS
6106-SW-7/8-R/E	7/8"	10,000 LBS	2.3 Kg / 5.06 LBS
6106-SW-1-R/E	1"	12,500 LBS	3.6 Kg / 7.94 LBS
6106-SW-1-1/8-R/E	1-1/8"	16,500 LBS	5.44 Kg / 11.99 LBS
6106-SW-1-1/4-R/E	1-1/4"	18,000 LBS	6.99 Kg / 15.4 LBS
6106-SW-1-1/2-R/E	1-1/2"	45,200 LBS	15.01 Kg / 33.09 LBS

MBS: 5 x WLL

**MATERIAL:** FORGED STEEL  
**FINISH:** HOT-DIP GALVANIZED (HDG)

6106



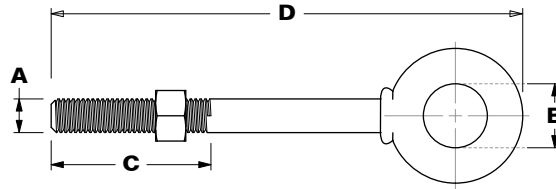


MODEL	WORKING LOAD LIMIT	WEIGHT PER 100	DIMENSIONS			
			A	B	C	D
6106-EB-1/4 x 2	500 LBS	3.71 Kg / 8.2 LBS	Ø6.3 MM / 0.25"	Ø12.7 MM / 0.5"	38.1 MM / 1.5"	77.72 MM / 3.06"
6106-EB-1/4 x 4	500 LBS	5.31 Kg / 11.7 LBS	Ø6.3 MM / 0.25"	Ø12.7 MM / 0.5"	63.5 MM / 2.5"	128.52 MM / 5.06"
6106-EB-5/16 x 2-1/4	800 LBS	6.03 Kg / 13.3 LBS	Ø7.9 MM / 0.31"	Ø15.8 MM / 0.62"	38.1 MM / 1.5"	90.42 MM / 3.56"
6106-EB-5/16 x 4-1/4	800 LBS	11.34 Kg / 25 LBS	Ø7.9 MM / 0.31"	Ø15.8 MM / 0.62"	63.5 MM / 2.5"	114.22 MM / 5.56"
6106-EB-3/8 x 2-1/2	1,200 LBS	10.57 Kg / 23.3 LBS	Ø9.5 MM / 0.38"	Ø19 MM / 0.75"	38.1 MM / 1.5"	104.65 MM / 4.12"
6106-EB-3/8 x 4-1/2	1,200 LBS	13.38 Kg / 29.5 LBS	Ø9.5 MM / 0.38"	Ø19 MM / 0.75"	63.5 MM / 2.5"	155.45 MM / 6.12"
6106-EB-3/8 x 6	1,200 LBS	15.97 Kg / 35.2 LBS	Ø9.5 MM / 0.38"	Ø19 MM / 0.75"	63.5 MM / 2.5"	193.55 MM / 7.62"
6106-EB-1/2 x 3-1/4	2,200 LBS	22.82 Kg / 50.3 LBS	Ø12.7 MM / 0.5"	Ø25.4 MM / 1"	38.1 MM / 1.5"	136.65 MM / 5.38"
6106-EB-1/2 x 6	2,200 LBS	29.98 Kg / 66.1 LBS	Ø12.7 MM / 0.5"	Ø25.4 MM / 1"	76.2 MM / 3"	206.25 MM / 8.12"
6106-EB-1/2 x 8	2,200 LBS	37.19 Kg / 82 LBS	Ø12.7 MM / 0.5"	Ø25.4 MM / 1"	76.2 MM / 3"	257.05 MM / 10.12"
6106-EB-1/2 x 10	2,200 LBS	39.92 Kg / 88 LBS	Ø12.7 MM / 0.5"	Ø25.4 MM / 1"	76.2 MM / 3"	307.85 MM / 12.12"
6106-EB-1/2 x 12	2,200 LBS	51.8 Kg / 114.2 LBS	Ø12.7 MM / 0.5"	Ø25.4 MM / 1"	76.2 MM / 3"	358.65 MM / 14.12"
6106-EB-1/2 x 15	2,200 LBS	53 Kg / 116.85 LBS	Ø12.7 MM / 0.5"	Ø25.4 MM / 1"	101.6 MM / 4"	434.85 MM / 17.12"
6106-EB-5/8 x 4	3,500 LBS	46.77 Kg / 103.1 LBS	Ø15.8 MM / 0.62"	Ø31.7 MM / 1.25"	50.8 MM / 2"	169.93 MM / 6.69"
6106-EB-5/8 x 6	3,500 LBS	53.61 Kg / 118.2 LBS	Ø15.8 MM / 0.62"	Ø31.7 MM / 1.25"	76.2 MM / 3"	220.73 MM / 8.69"
6106-EB-5/8 x 8	3,500 LBS	61.28 Kg / 135.1 LBS	Ø15.8 MM / 0.62"	Ø31.7 MM / 1.25"	76.2 MM / 3"	271.53 MM / 10.69"
6106-EB-5/8 x 10	3,500 LBS	69.67 Kg / 153.6 LBS	Ø15.8 MM / 0.62"	Ø31.7 MM / 1.25"	76.2 MM / 3"	322.33 MM / 12.69"
6106-EB-5/8 x 12	3,500 LBS	75.79 Kg / 167.1 LBS	Ø15.8 MM / 0.62"	Ø31.7 MM / 1.25"	101.6 MM / 4"	373.13 MM / 14.69"
6106-EB-5/8 x 15	3,500 LBS	91.24 Kg / 201.16 LBS	Ø15.8 MM / 0.62"	Ø31.7 MM / 1.25"	127 MM / 5"	449.33 MM / 17.69"
6106-EB-5/8 x 24	3,500 LBS	126.6 Kg / 279.1 LBS	Ø15.8 MM / 0.62"	Ø31.7 MM / 1.25"	152.4 MM / 6"	677.93 MM / 26.69"
6106-EB-3/4 x 4-1/2	5,200 LBS	76.48 Kg / 168.6 LBS	Ø19 MM / 0.75"	Ø38.1 MM / 1.5"	50.8 MM / 2"	195.33 MM / 7.69"
6106-EB-3/4 x 6	5,200 LBS	83.69 Kg / 184.5 LBS	Ø19 MM / 0.75"	Ø38.1 MM / 1.5"	76.2 MM / 3"	233.43 MM / 9.19"
6106-EB-3/4 x 8	5,200 LBS	94.3 Kg / 207.9 LBS	Ø19 MM / 0.75"	Ø38.1 MM / 1.5"	76.2 MM / 3"	284.23 MM / 11.19"
6106-EB-3/4 x 10	5,200 LBS	106.6 Kg / 235 LBS	Ø19 MM / 0.75"	Ø38.1 MM / 1.5"	76.2 MM / 3"	335.03 MM / 13.19"
6106-EB-3/4 x 12	5,200 LBS	116.8 Kg / 257.5 LBS	Ø19 MM / 0.75"	Ø38.1 MM / 1.5"	101.6 MM / 4"	385.83 MM / 15.19"
6106-EB-3/4 x 15	5,200 LBS	135.17 Kg / 298 LBS	Ø19 MM / 0.75"	Ø38.1 MM / 1.5"	127.0 MM / 5"	462.03 MM / 18.19"
6106-EB-7/8 x 5	7,200 LBS	122.47 Kg / 270 LBS	Ø22.3 MM / 0.88"	Ø44.5 MM / 1.75"	63.5 MM / 2.5"	222.25 MM / 8.75"
6106-EB-7/8 x 8	7,200 LBS	139.71 Kg / 308 LBS	Ø22.3 MM / 0.88"	Ø44.5 MM / 1.75"	101.6 MM / 4"	298.45 MM / 11.75"
6106-EB-7/8 x 12	7,200 LBS	181.44 Kg / 400 LBS	Ø22.3 MM / 0.88"	Ø44.5 MM / 1.75"	101.6 MM / 4"	400.05 MM / 15.75"
6106-EB-1 x 6	10,000 LBS	190.96 Kg / 421 LBS	Ø25.4 MM / 1"	Ø50.8 MM / 2"	76.2 MM / 3"	261.87 MM / 10.31"
6106-EB-1 x 9	10,000 LBS	212.51 Kg / 468.5 LBS	Ø25.4 MM / 1"	Ø50.8 MM / 2"	101.6 MM / 4"	338.07 MM / 13.31"
6106-EB-1 x 12	10,000 LBS	244.94 Kg / 540 LBS	Ø25.4 MM / 1"	Ø50.8 MM / 2"	101.6 MM / 4"	414.27 MM / 16.31"
6106-EB-1 x 18	10,000 LBS	294.84 Kg / 650 LBS	Ø25.4 MM / 1"	Ø50.8 MM / 2"	177.8 MM / 7"	566.67 MM / 22.3"
6106-EB-1-1/4 x 8	15,200 LBS	340.19 Kg / 750 LBS	Ø31.7 MM / 1.25"	Ø63.5 MM / 2.5"	101.6 MM / 4"	339.85 MM / 13.38"
6106-EB-1-1/4 x 12	15,200 LBS	408.23 Kg / 900 LBS	Ø31.7 MM / 1.25"	Ø63.5 MM / 2.5"	101.6 MM / 4"	441.45 MM / 17.38"
6106-EB-1-1/4 x 20	15,200 LBS	548.85 Kg / 1,210 LBS	Ø31.7 MM / 1.25"	Ø63.5 MM / 2.5"	152.4 MM / 6"	644.65 MM / 25.38"

MBS: 5 x WLL

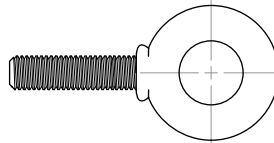
**MATERIAL:** FORGED STEEL  
**FINISH:** HOT-DIP GALVANIZED (HDG)

6106



MODEL	WORKING LOAD LIMIT	WEIGHT PER 100	DIMENSIONS			
			A	B	C	D
6106-EBS-1/4 x 2	500 LBS	2.99 Kg / 6.6 LBS	Ø6.3 MM / 0.25"	Ø12.7 MM / 0.5"	38.1 MM / 1.5"	74.68 MM / 2.94"
6106-EBS-1/4 x 4	500 LBS	4.13 Kg / 9.1 LBS	Ø6.3 MM / 0.25"	Ø12.7 MM / 0.5"	63.5 MM / 2.5"	125.5 MM / 4.94"
6106-EBS-5/16 x 2-1/4	800 LBS	5.67 Kg / 12.5 LBS	Ø7.9 MM / 0.31"	Ø15.8 MM / 0.62"	38.1 MM / 1.5"	88.9 MM / 3.5"
6106-EBS-5/16 x 4-1/4	800 LBS	8.53 Kg / 18.8 LBS	Ø7.9 MM / 0.31"	Ø15.8 MM / 0.62"	63.5 MM / 2.5"	139.7 MM / 5.5"
6106-EBS-3/8 x 2-1/2	1,200 LBS	9.71 Kg / 21.4 LBS	Ø9.5 MM / 0.38"	Ø19 MM / 0.75"	38.1 MM / 1.5"	100.8 MM / 3.97"
6106-EBS-3/8 x 4-1/2	1,200 LBS	11.47 Kg / 25.3 LBS	Ø9.5 MM / 0.38"	Ø19 MM / 0.75"	63.5 MM / 2.5"	151.6 MM / 5.97"
6106-EBS-1/2 x 3-1/4	2,200 LBS	19.32 Kg / 42.6 LBS	Ø12.7 MM / 0.5"	Ø25.4 MM / 1"	38.1 MM / 1.5"	130.1 MM / 5.12"
6106-EBS-1/2 x 6	2,200 LBS	25.76 Kg / 56.8 LBS	Ø12.7 MM / 0.5"	Ø25.4 MM / 1"	76.2 MM / 3"	200.2 MM / 7.88"
6106-EBS-5/8 x 4	3,500 LBS	31.12 Kg / 68.6 LBS	Ø15.8 MM / 0.62"	Ø31.7 MM / 1.25"	50.8 MM / 2"	163.6 MM / 6.44"
6106-EBS-5/8 x 6	3,500 LBS	46.44 Kg / 102.4 LBS	Ø15.8 MM / 0.62"	Ø31.7 MM / 1.25"	76.2 MM / 3"	214.9 MM / 8.44"
6106-EBS-3/4 x 4-1/2	5,200 LBS	65.54 Kg / 144.5 LBS	Ø19 MM / 0.75"	Ø38.1 MM / 1.5"	50.8 MM / 2"	188.9 MM / 7.44"
6106-EBS-3/4 x 6	5,200 LBS	75.97 Kg / 167.5 LBS	Ø19 MM / 0.75"	Ø38.1 MM / 1.5"	76.2 MM / 3"	227.1 MM / 8.94"
6106-EBS-7/8 x 5	7,200 LBS	102.6 Kg / 225 LBS	Ø22.3 MM / 0.88"	Ø44.5 MM / 1.75"	63.5 MM / 2.5"	214.9 MM / 8.46"
6106-EBS-1 x 6	10,000 LBS	166.15 Kg / 366.3 LBS	Ø25.4 MM / 1"	Ø50.8 MM / 2"	76.2 MM / 3"	253.2 MM / 9.97"
6106-EBS-1 x 9	10,000 LBS	191.64 Kg / 422.5 LBS	Ø25.4 MM / 1"	Ø50.8 MM / 2"	101.6 MM / 4"	329.4 MM / 12.97"
6106-EBS-1-1/4 x 8	15,200 LBS	294.84 Kg / 650 LBS	Ø31.7 MM / 1.25"	Ø63.5 MM / 2.5"	101.6 MM / 3"	323.1 MM / 12.7"
6106-EBS-1-1/4 x 12	15,200 LBS	360.61 Kg / 795 LBS	Ø31.7 MM / 1.25"	Ø63.5 MM / 2.5"	101.6 MM / 3"	424.7 MM / 16.72"
6106-EBS-1-1/2 x 15	21,400 LBS	646.37 Kg / 1,425 LBS	Ø38.1 MM / 1.5"	Ø76.2 MM / 3"	152.4 MM / 6"	527.1 MM / 20.75"

### MACHINERY TYPE



MODEL	WORKING LOAD LIMIT	THREAD LENGTH	EYE I.D.	WEIGHT
6106-EBSM-1/4 x 1	650 LBS	25.4 MM / 1"	Ø22.4 MM / 0.88"	0.015 Kg / 0.032 LBS
6106-EBSM-5/16 x 1-1/8	1,200 LBS	28.7 MM / 1.13"	Ø28.5 MM / 1.12"	0.028 Kg / 0.062 LBS
6106-EBSM-3/8 x 1-1/4	1,550 LBS	31.8 MM / 1.25"	Ø35.1 MM / 1.38"	0.057 Kg / 0.125 LBS
6106-EBSM-1/2 x 1-1/2	2,600 LBS	38.1 MM / 1.5"	Ø44.5 MM / 1.75"	0.113 Kg / 0.25 LBS
6106-EBSM-5/8 x 1-3/4	5,200 LBS	44.5 MM / 1.75"	Ø57.2 MM / 2.25"	0.227 Kg / 0.5 LBS
6106-EBSM-3/4 x 2	7,200 LBS	50.8 MM / 2"	Ø69.9 MM / 2.75"	0.397 Kg / 0.875 LBS
6106-EBSM-7/8 x 2-1/4	10,600 LBS	57.2 MM / 2.25"	Ø82.6 MM / 3.25"	0.68 Kg / 1.5 LBS
6106-EBSM-1 x 2 1/2	13,300 LBS	63.5 MM / 2.5"	Ø95.3 MM / 3.75"	0.988 Kg / 2.18 LBS
6106-EBSM-1-1/4 x 3	21,000 LBS	76.2 MM / 3"	Ø114.3 MM / 4.5"	1.723 Kg / 3 LBS
6106-EBSM-1-1/2 x 3-1/2	24,000 LBS	88.9 MM / 3.5"	Ø139.7 MM / 5.5"	3.175 Kg / 7 LBS

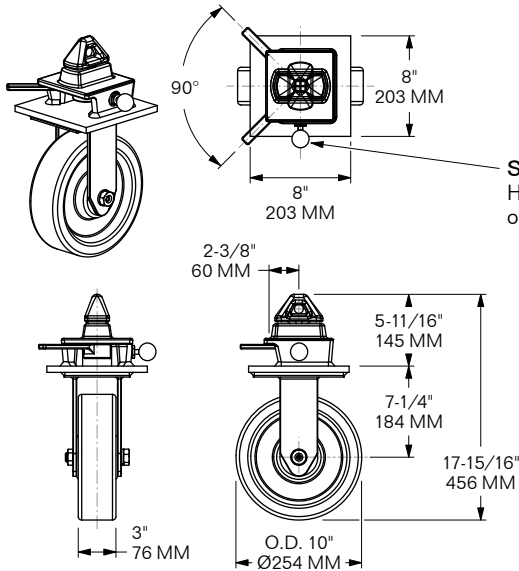
MBS: 5 x WLL

**MATERIAL: FORGED STEEL**  
**FINISH: HOT-DIP GALVANIZED (HDG)**

6106

WHEEL DIA. x WIDTH	WHEEL MATERIAL	CAPACITY PER WHEEL	COMPLETE ASSEMBLIES		
			RIGID	SWIVEL	SWIVEL w/ LOCK & WHEEL BRAKE
Ø10" x 3"	GRAY IRON (-GIR)	2,700 LBS	6108-8053-GIR	6108-8056-GIR	6108-8058-GIR
Ø10" x 3"	PHENOLIC (-PHN)	2,900 LBS	6108-8053-PHN	6108-8056-PHN	6108-8058-PHN
Ø10" x 3"	DUCTILE IRON (-DUC)	5,000 LBS	6108-8053-DUC	6108-8056-DUC	6108-8058-DUC

### RIGID TYPE

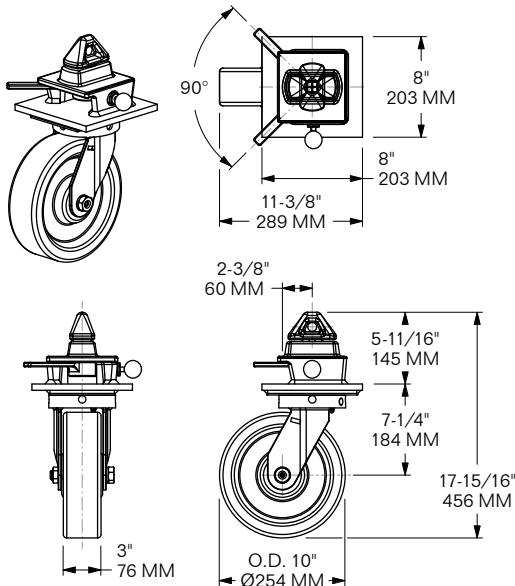


**FRAME MATERIAL:**  
FAB. STEEL, ZINC-PLATED  
**LOCK MATERIAL:** FORGED STEEL,  
HOT-DIP GALVANIZED

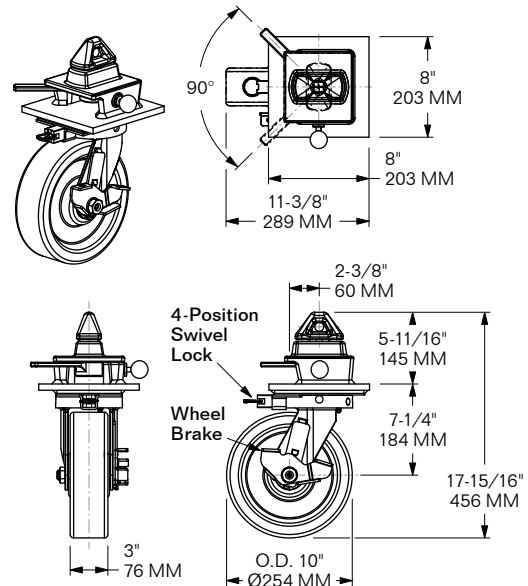
Spring-Loaded Pull Pin automatically engages the Handle to secure the LOCKED position. Pull the Knob outward to UNLOCK and disengage the Handle.

**NOTE:** Twistlocks on all Caster Assembly models have a Spring-Loaded Latch Pin for the LOCKED position.

### SWIVEL TYPE



### SWIVEL TYPE w/ SWIVEL LOCK & WHEEL BRAKE



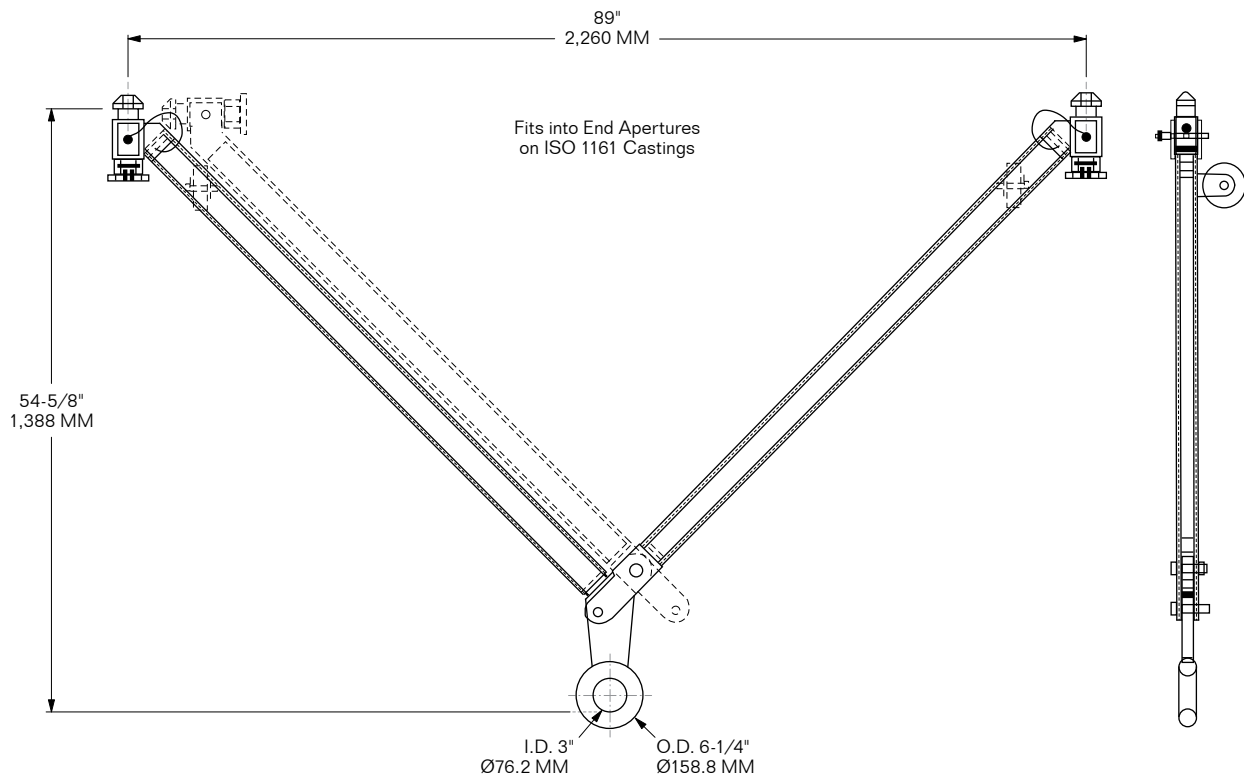
6108

**SPECIAL ORDER ONLY** **MODEL 6108-6481**

**STRENGTH RATING:**

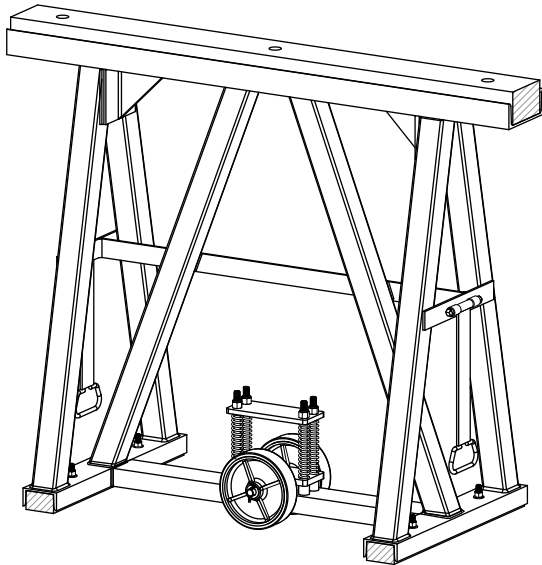
Tow Bar Assembly is Heavy-Duty, capable of towing a 67,200-lb. Freight Container on Caster Wheels up or down a 30° incline from horizontal level. Rating is based on max. speed of 4 mph.

**WEIGHT:** 120 LBS / 54.4 Kg



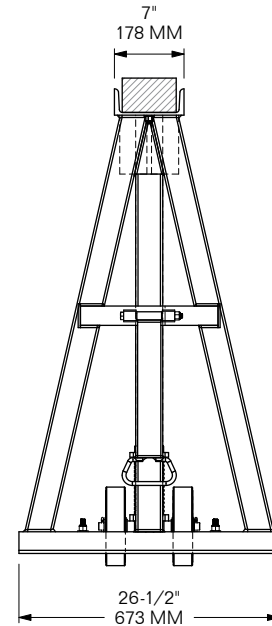
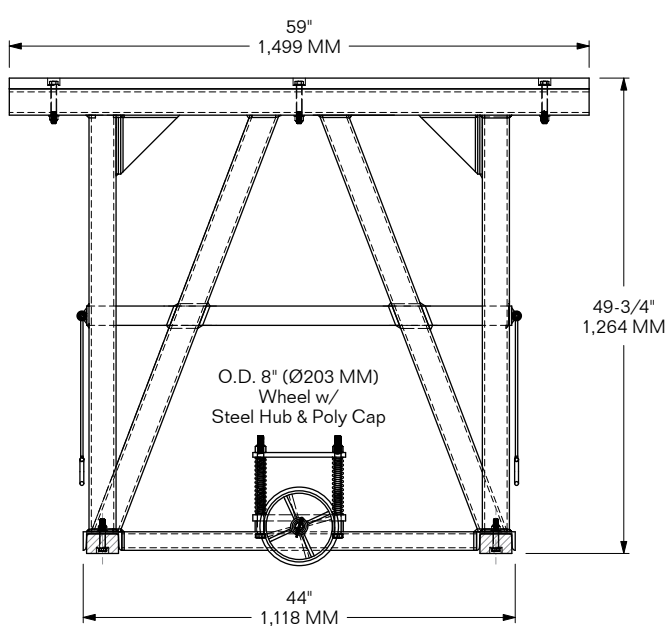
**6108**

**MODEL 6109-1151**



Heavy-duty construction that supports the front end of Trailers and Chassis on RO-RO ships and repair shops. Easy to move around on Spring-loaded Wheels when unloaded.

**MAX. WORKING LOAD:**  
50,000 LBS / 22,680 Kg



**MATERIAL:** STEEL w/ P.T. WOOD LANDING SURFACE  
**FINISH:** HOT-DIP GALVANIZED  
**WEIGHT:** 354 LBS / 160.5 Kg

**6109**



TABLE OF CONTENTS  
CONTAINER CORNER CASTINGS  
& FITTINGS: **6201-6203**

**PAGE NUMBERS**

<b>6201-1</b>	ISO CONTAINER CORNER CASTINGS
<b>6203-1</b>	MINI CONTAINER ISO CORNER FITTING

**6200**

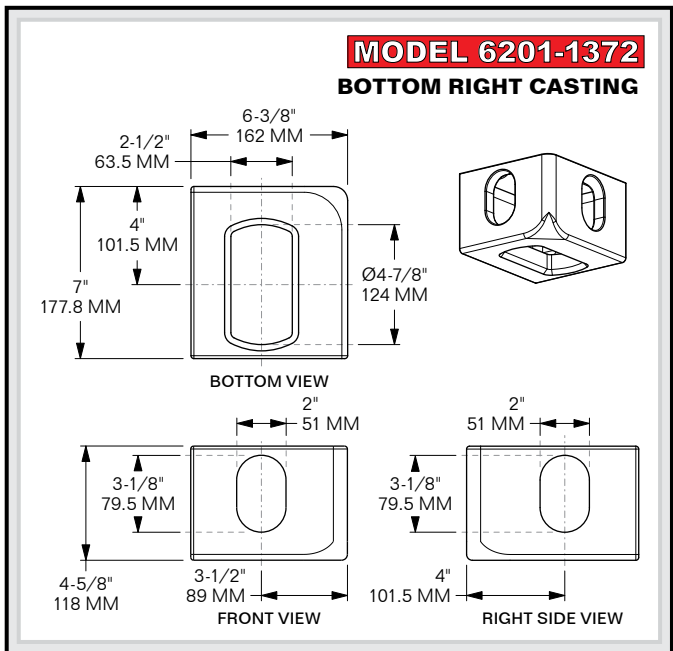
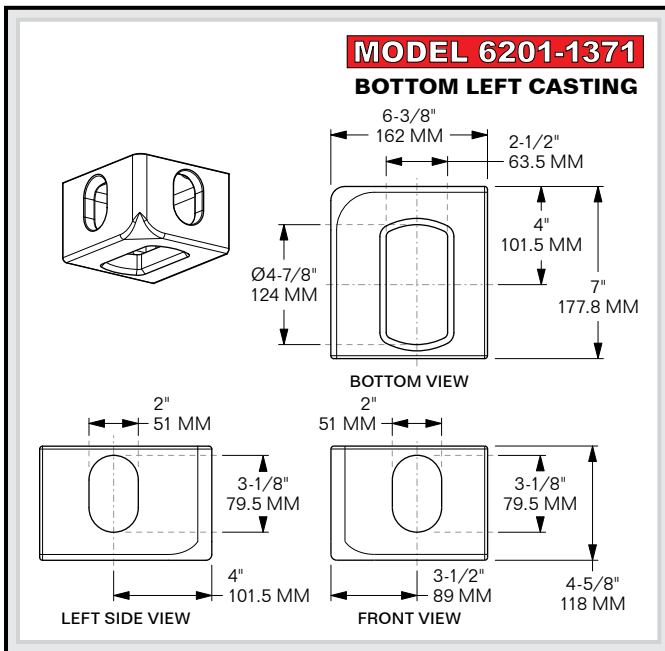
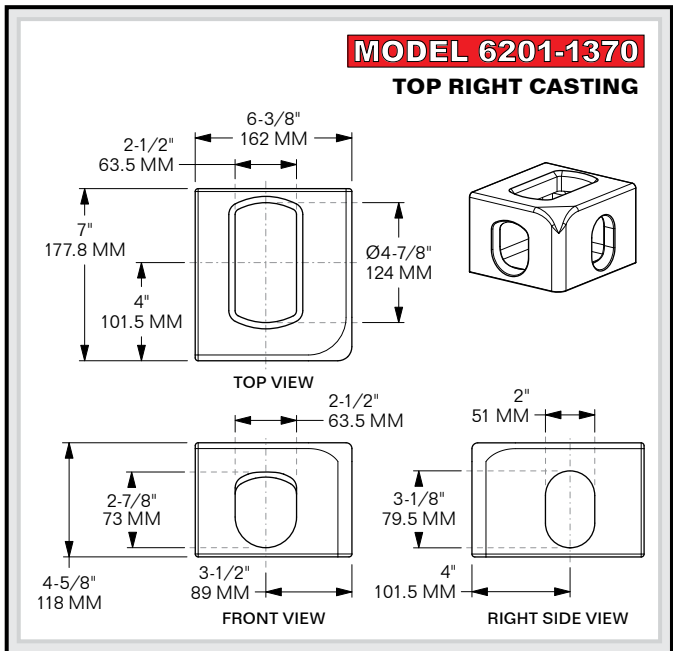
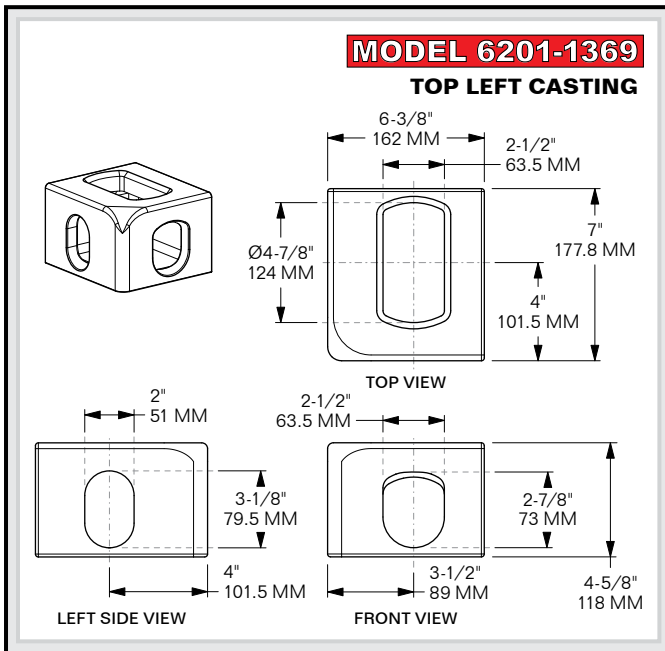




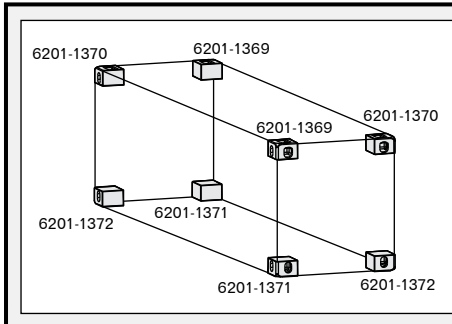
# ISO CORNER CASTINGS

## STD STEEL CASTINGS per ISO 1161

for 96"-WIDE CONTAINERS & FLATRACKS



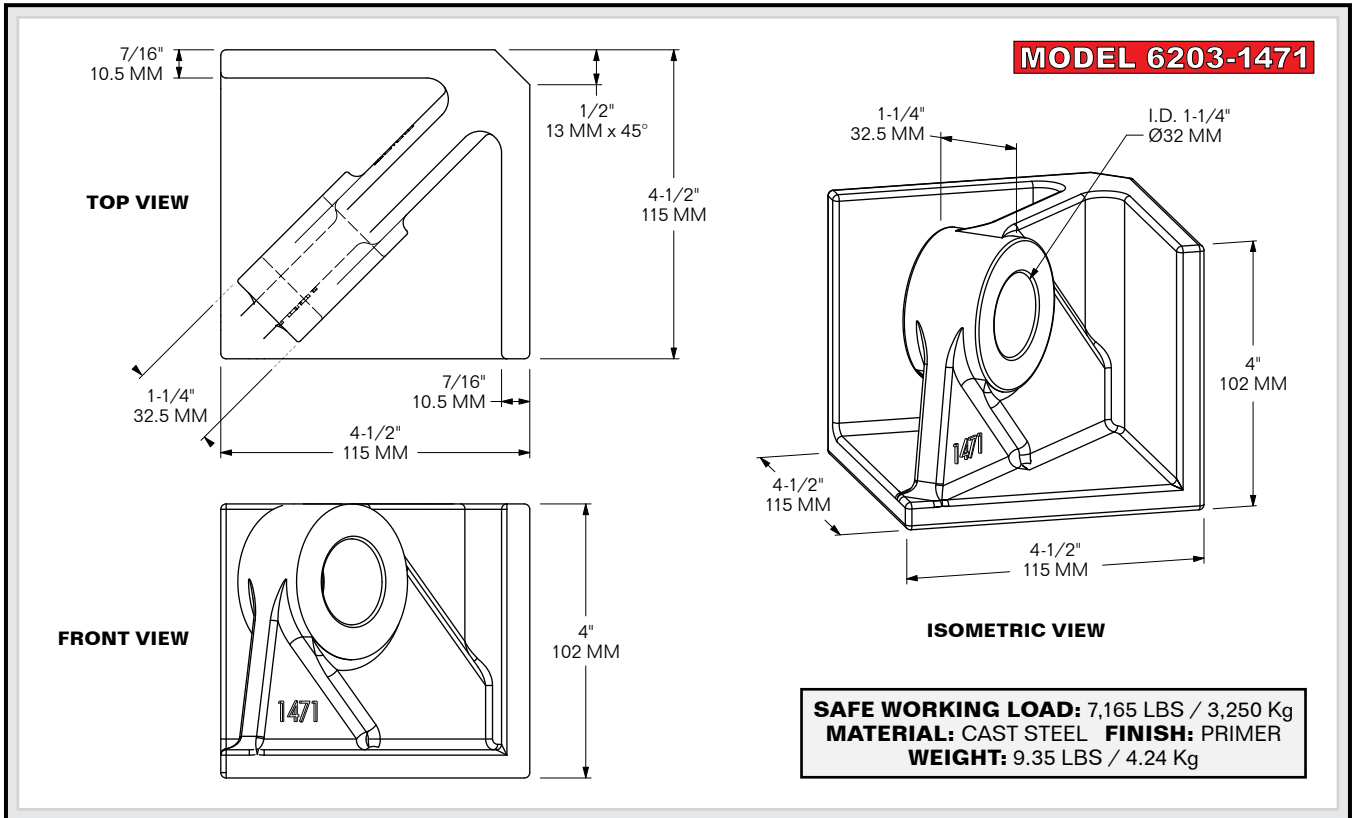
**6201**



**NOTE:** Standard ISO Containers use 8 ea. Corner Castings, consisting of:  
 2 pcs. Top Left **MODEL 6201-1369** | **WEIGHT:** 24.8 LBS / 11.25 Kg  
 2 pcs. Top Right **MODEL 6201-1370** | **WEIGHT:** 24.8 LBS / 11.25 Kg  
 2 pcs. Bottom Left **MODEL 6201-1371** | **WEIGHT:** 24.3 LBS / 11 Kg  
 2 pcs. Bottom Right **MODEL 6201-1372** | **WEIGHT:** 24.3 LBS / 11 Kg

**MATERIAL:** CAST STEEL (per ISO 1161 requirements)  
**FINISH:** MACHINED ON ALL SIX SIDES & SHOT-BLASTED

Each Corner Casting is manufactured in accordance w/ Approval Certificate by a Classification Society and meets ISO 1161 requirements for ISO Containers.



6203





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RAIL CAR SECUREMENT  
**6601-6602**

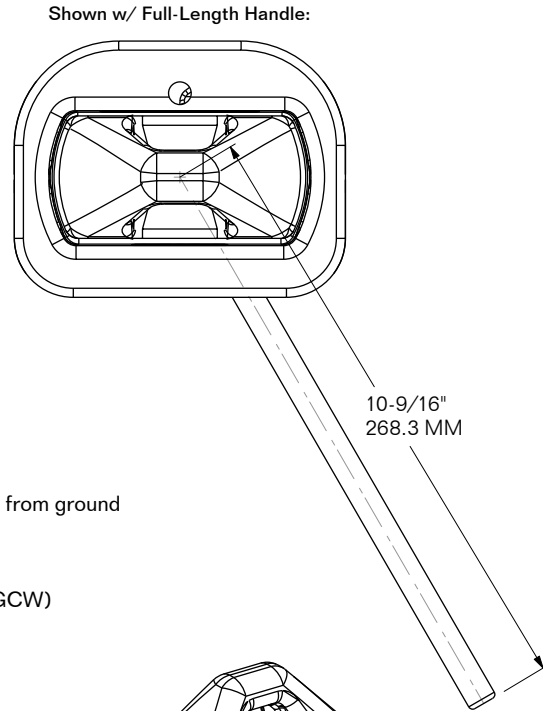
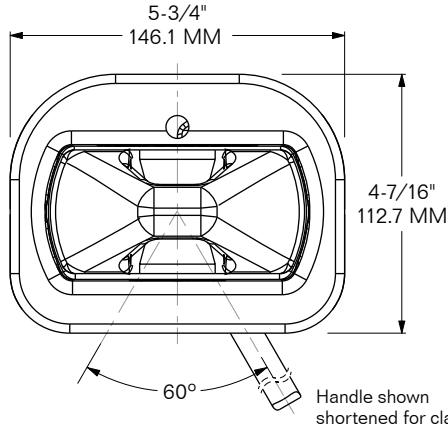
**PAGE NUMBERS**

<b>6601-1</b>	MANUAL IBC (Interbox Connector) w/ Side Operation (AAR Tested & Approved)
<b>6601-2</b>	AUTOMATIC IBC TWISTLOCK w/ Dual Function (AAR-Compliant)
<b>6602-1</b>	WELL CAR POSITIONING CONES & CONTAINER GUIDES (AAR-Compliant & TTX-Approved)

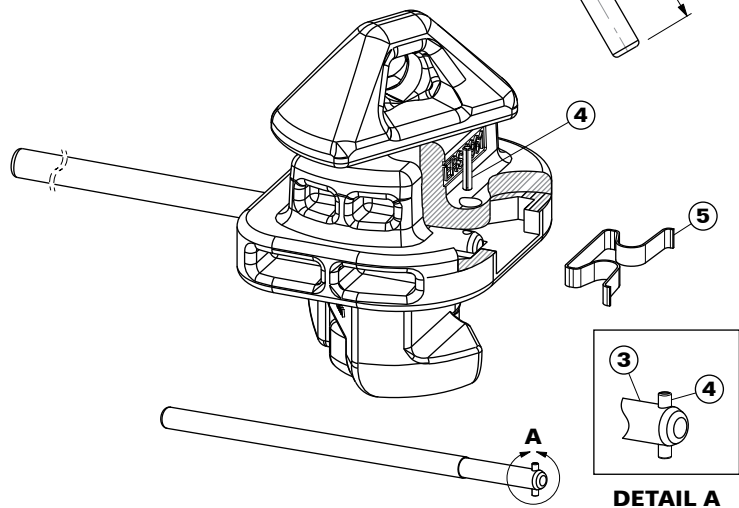
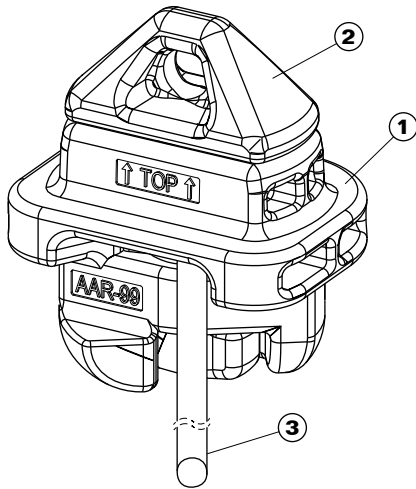
**6600**

**DESIGNED FOR USE ON DOUBLE-STACKED RAIL CARS.  
UNCONDITIONAL AAR APPROVAL PER AAR-M-998-2008**

**MODEL 6601-6961-L**



- Locks to the left
- Fits both standard 96"- and 102"-wide containers
- Handle can be operated from side w/ aluminum pole from ground
- Fixed-base design eliminates bolts & nuts
- Cannot be fitted upside down
- Designed for 80,000 lbs. Gross Container Weight (GCW)



ITEM	MODEL	DESCRIPTION	MATERIAL	FINISH
1	6601-6961-1-L	Housing	Cast Steel	Hot-Dip Galvanized (HDG)
2	6601-6961-2	Pin	Forged Steel	Hot-Dip Galvanized (HDG)
3	6601-6961-4	Handle	High-Tensile Steel	Hot-Dip Galvanized (HDG)
4	1110-4757-SS	Split Roll Pin	Stainless Steel	Self-Color
5	5005-2936-5	Leaf Spring	Stainless Steel	Self-Color

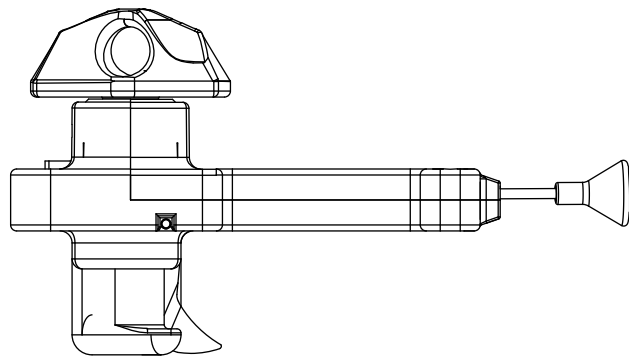
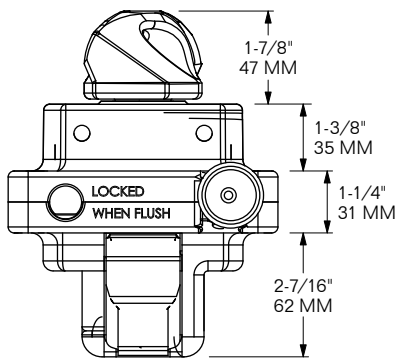
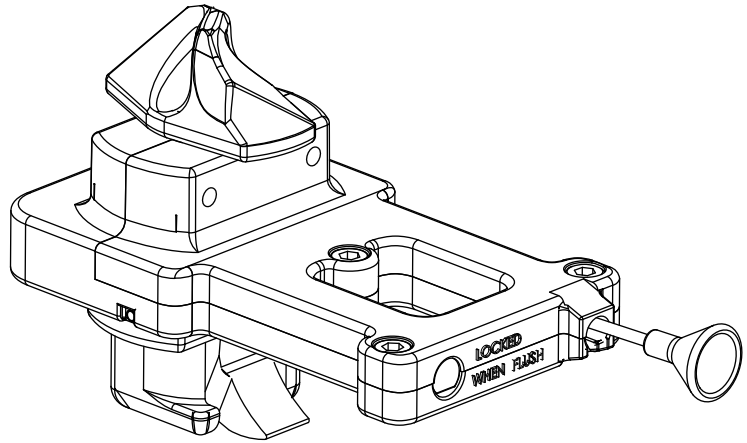
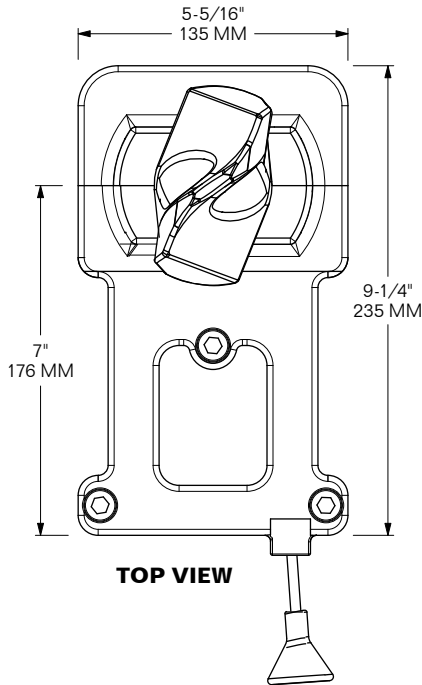
**WEIGHT: 13.9 LBS / 6.3 Kg**

**6601**

**MODEL 6601-1288**

**DESIGNED FOR WHEELED (GROUND)  
& STACKED (TOP) OPERATION**

MEETS REQUIREMENTS OF AAR M-998-2013



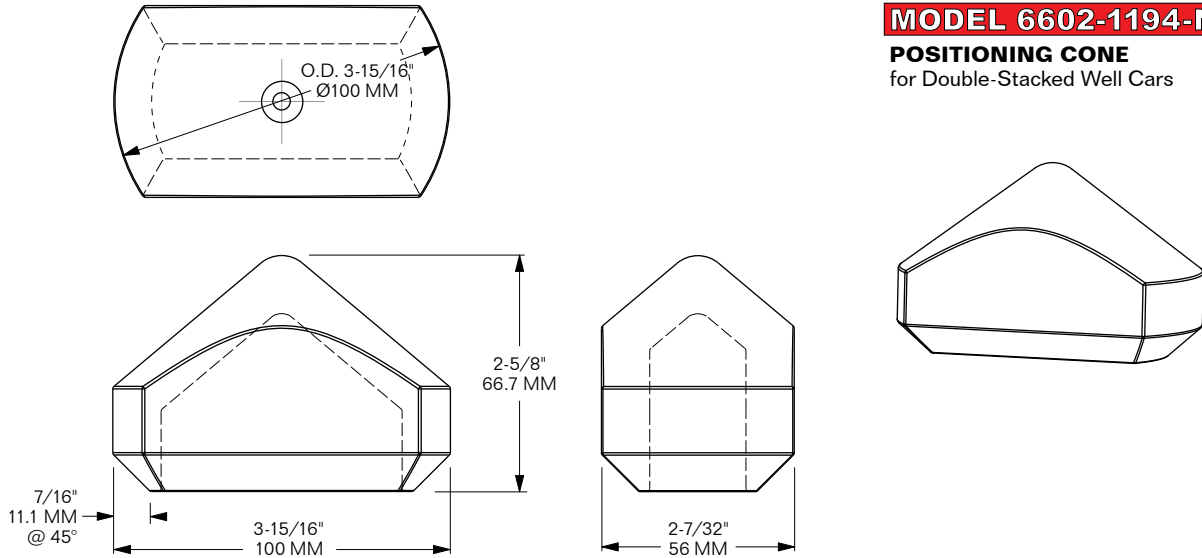
**6601**

**FINISH:** HOT-DIP GALVANIZED  
**MATERIAL:** STEEL CASTINGS  
**WEIGHT:** 16.8 LBS / 7.6 Kg

**MODEL 6602-1194-P**

**MODEL 6602-1194-NRP**

**POSITIONING CONE**  
for Double-Stacked Well Cars



**IN COMPLIANCE w/ AAR-M-930 & S-2053.**  
**APPROVED BY TTX PER REF. # 4000904.**

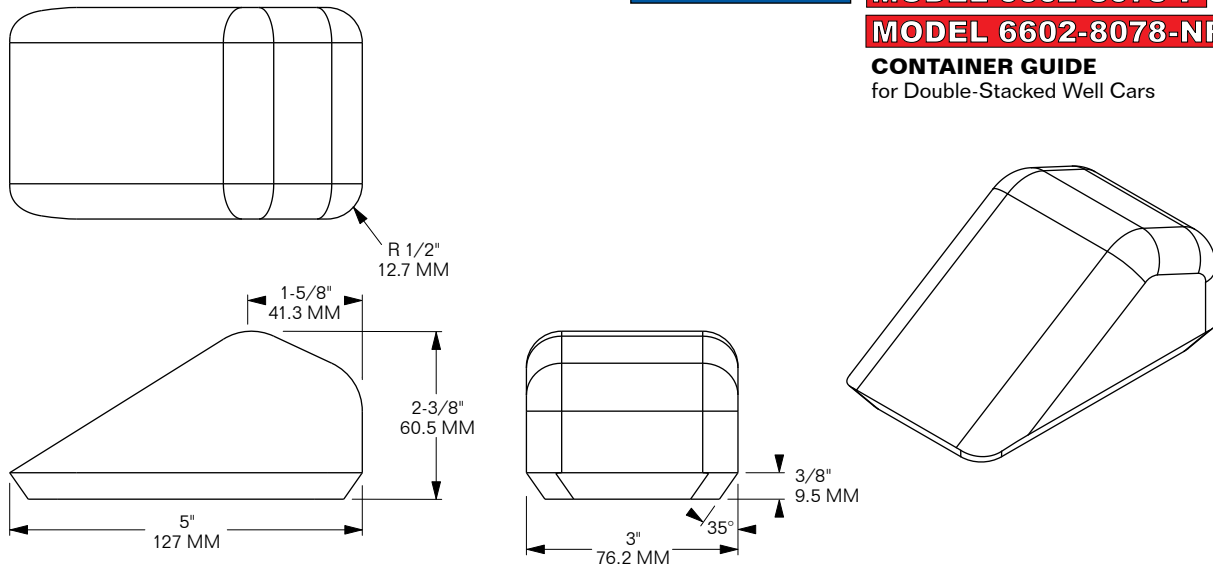
**MATERIAL:** CAST STEEL **FINISH:** P = PRIMER, NRP = NO RUST PROTECTION **WEIGHT:** 2.4 LBS / 1.09 Kg

**SPECIAL ORDER ONLY**

**MODEL 6602-8078-P**

**MODEL 6602-8078-NRP**

**CONTAINER GUIDE**  
for Double-Stacked Well Cars



**IN COMPLIANCE w/ AAR-M-930 & S-2053.**  
**APPROVED BY TTX PER REF. # 4000013.**

**MATERIAL:** CAST STEEL **FINISH:** P = PRIMER, NRP = NO RUST PROTECTION **WEIGHT:** 4.1 LBS / 1.86 Kg

**6602**





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CONTAINER CONNECTORS  
**6701**

**PAGE NUMBERS**

<b>6701-1</b>	HORIZONTAL INTERCONNECTOR for ISO Container Top Castings
<b>6701-2</b>	HORIZONTAL INTERCONNECTOR for ISO Container Bottom Castings

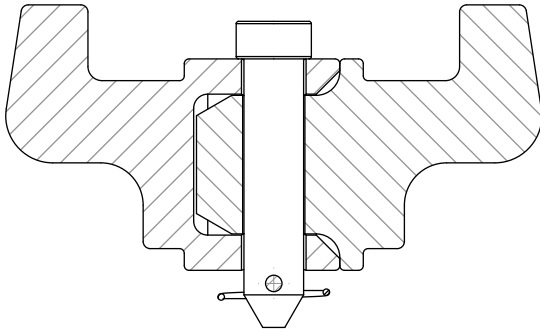
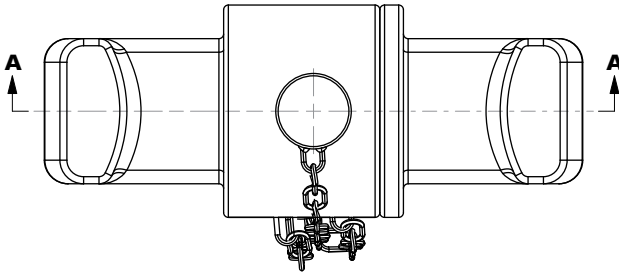


# HORIZONTAL INTERCONNECTOR

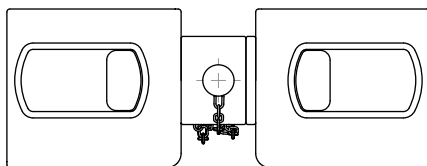
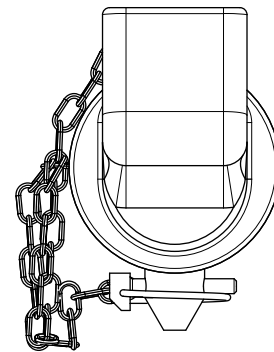
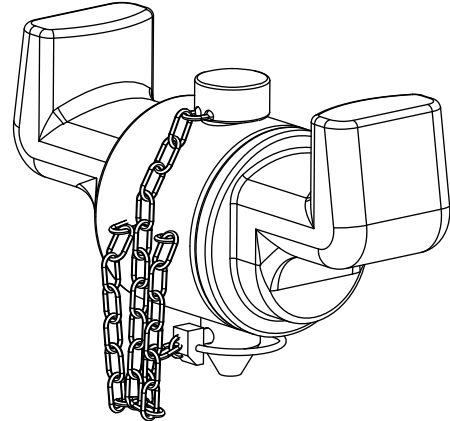
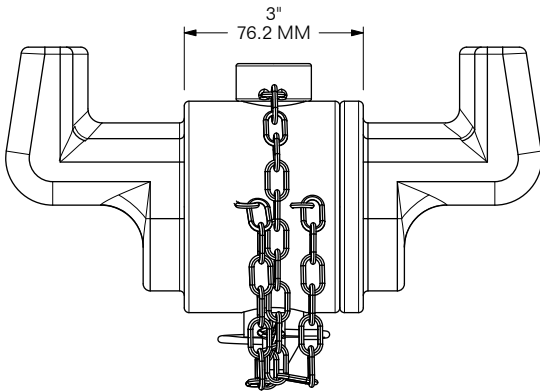
for TOP CORNER CASTINGS on ISO CONTAINERS

**MODEL 6701-2021**

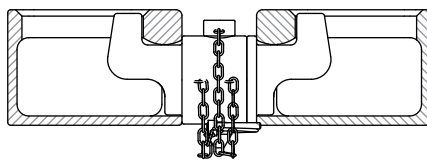
**FOR EMPTY CONTAINERS ONLY**



**SECTION A-A**



SHOWN INSERTED IN ISO CORNER CASTINGS;  
MADE FOR USE IN TOP ISO 1161 CONTAINER CASTINGS.  
USE 6701-1208 FOR BOTTOM CASTINGS.



**MIN. COMPRESSION STRENGTH: 60,000 LBS**  
**MATERIAL: CAST STEEL**  
**WEIGHT: 16.4 LBS / 7.44 Kg**

**6701**

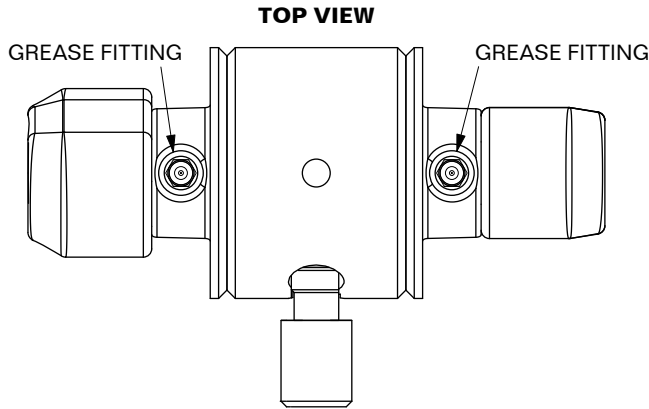


# HORIZONTAL INTERCONNECTOR

for BOTTOM CORNER CASTINGS on ISO CONTAINERS

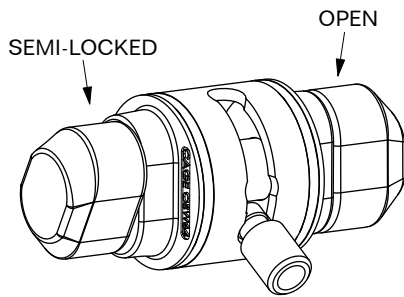
**MODEL 6701-1208**

**FOR EMPTY CONTAINERS ONLY**

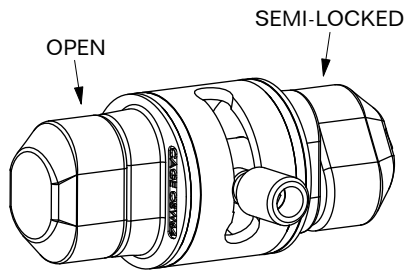


FITS CONTAINERS SHORTER THAN 20' w/  
BOTTOM ISO 1161 CASTINGS FITTED ON THE  
TOP & BOTTOM. ALSO FITS BOTTOM CORNERS  
ON STANDARD 20' ISO CONTAINERS.

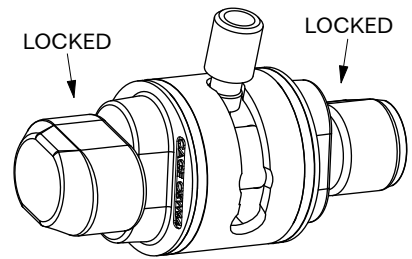
IF USED ON **20' CONTAINERS (EMPTY ONLY)**,  
USE MODEL **6701-2021** IN TOP POSITIONS.



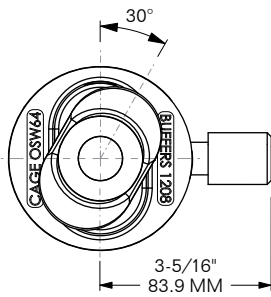
**HANDLE POSITION FOR  
RIGHT SIDE LOADING**



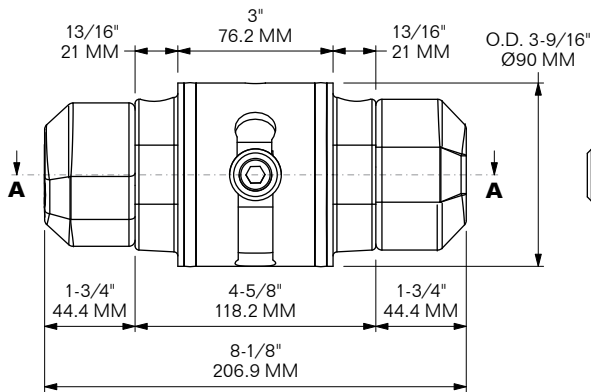
**HANDLE POSITION FOR  
LEFT SIDE LOADING**



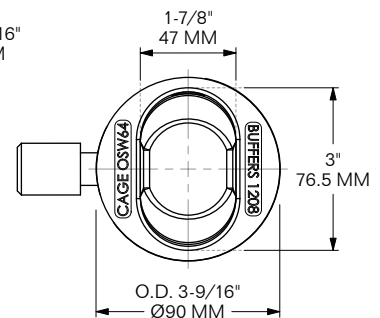
**LOCKED HANDLE POSITION**



**LEFT VIEW**



**FRONT VIEW**



**RIGHT VIEW**

**MIN. TENSILE STRENGTH: 54,000 LBS**  
**MIN. COMPRESSION STRENGTH: 46,000 LBS**  
**MIN. SHEAR STRENGTH: 16,600 LBS**  
**MATERIAL: FORGED STEEL WEIGHT: 10.85 LBS / 4.92 Kg**

6701

**BUFFERS USA INC**

"The Intermodal Hardware Specialists"

6701-2



**904-696-0010**

E-mail: sales@buffersusa.com

5/24/21

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## More About Buffers USA, Inc.

Established in 1989, Buffers USA designs, manufactures and distributes products for the international intermodal transportation industry. Today, we offer more than 6,500 part numbers and carry over 2.5 million parts at any given time in our four warehouses across the United States.

Buffers USA product lines include ship lashing; container, chassis & trailer parts, chassis & flatbed twistlocks & pinlocks; cargo control, thermal bulkheads and anti-theft solutions for containers & trailers; rail/well car securement; and packaging & cargo handling for warehouse operations. Our innovative desiccant & moisture control products help further protect cargo and packaging inside shipping containers.



# BUFFERS USA

Securing Your Containers. Protecting Your Cargo.  
At Sea. Over Land. On Rail.™

## 904.696.0010

[www.BuffersUSA.com](http://www.BuffersUSA.com)

[Sales@BuffersUSA.com](mailto:Sales@BuffersUSA.com)