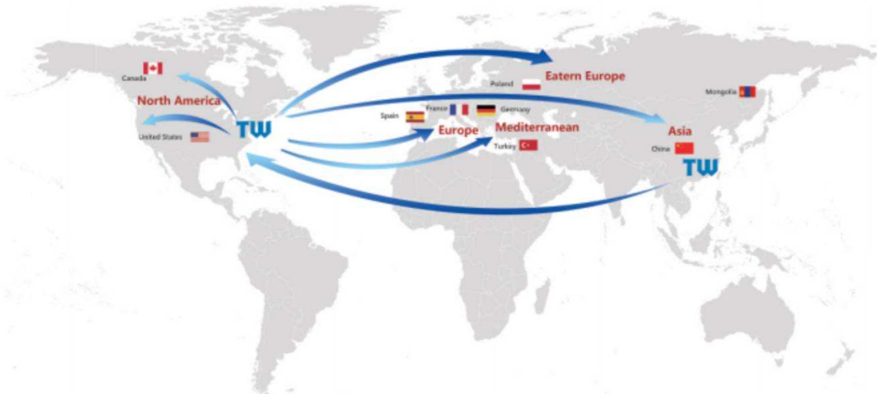
TW PRODUCTS

TW'S GLOBAL SALES NETWORK



Proudly a member of:

AWRF

STAFDA

(P): 800.620.9188
(F): 410.630.3989

(E): sales@twprod.com
(W): www.twprod.com

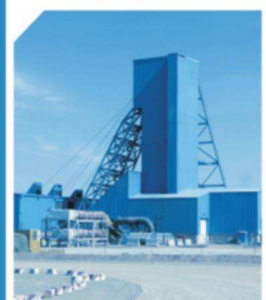
10620 Riggs Hill Rd., Unit B
Jessup, MD 20794

TW PRODUCTS

Chain, Wire Rope & Rigging Hardware







Official Catalog

Scan to visit our website

TW PRODUCTS ® provides quality rigging equipment and services that continually meet and exceed our customers' expectations.

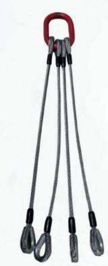
Company Profile

TW PRODUCTS ® is a professional manufacturer of forged rigging hardware products. The key products we produce in-house include shackles, turnbuckles, hooks, wire rope clips, thimbles, sleeves, and much more.

In an effort to grow and better serve our customers worldwide, we have added wire rope [all types of wire rope including galvanized and stainless steel as well as plastic-coated cable and strand] and chain [alloy, transport, hi-test, proof coil, machine chain and various types of weldless chain] to our product line. With these additions, we are able to be a single-source solution to our customers.

TW PRODUCTS ® strives to maintain our excellent reputation for understanding the unique buying requirements of our customers and exceeding our customers' expectations. We now offer an extended one-year product warranty to stand behind our products and stand with our customers. We are committed to increasing our customers' competitive advantage through excellent product quality, superior customer service, competitive pricing, fast delivery, and a dedicated team to help our customers grow their businesses.

Call us today at 1-800-620-9188 for partnership inquiries.

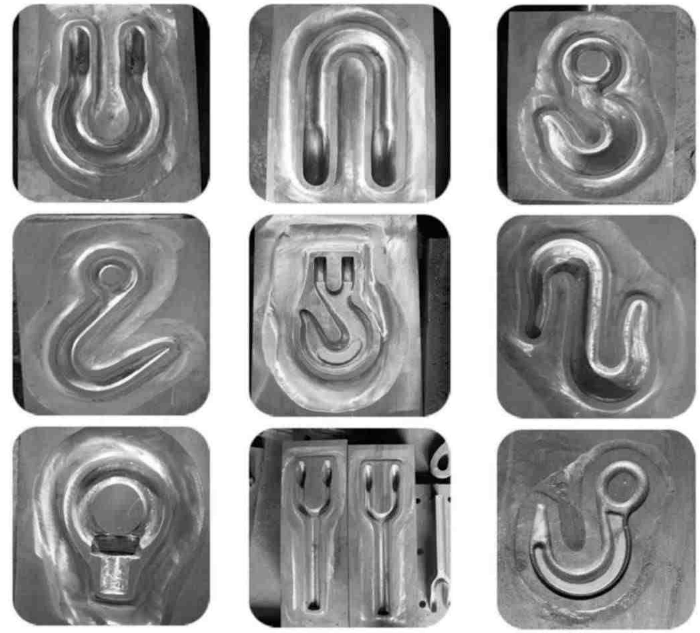


Some of the many ways to use our products

Machining equipment

Forging equipment

Heat-treatment equipment



Forging Workshop

Packaging Area

Material Storage/Warehouse

Warehouse

CATALOG GUIDE

1 G100 COMPONENTS (P01-22)

2 HOOKS, LINKS, & RINGS (P23-56)

3 SHACKLES (P57-62)

4 WIRE ROPES (P63-68)

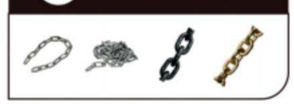
5 WIRE ROPE CLIPS, THIMBLES, & FERRULES (P69-80)

6 TURNBUCKLES (P81-90)

7 BLOCKS/PULLEYS (P91-98)

8 LOAD BINDERS (P99-101)

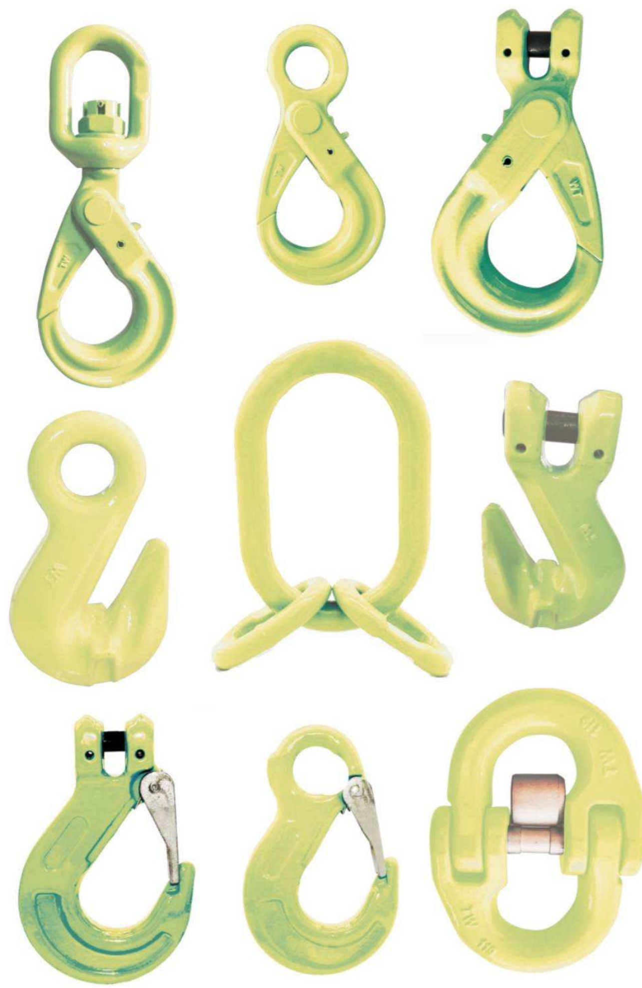
9 CHAINS (P102-117)



10 OEM/ODM PRODUCTS (P118-122)

TW PRODUCTS

G100 COMPONENTS



WARNING Never Exceed Working Limit

TW PRODUCTS ® G100 hooks/components are:

- Forged Alloy Steel - Quenched and Tempered.
- Individually Proof Tested to 2-1/2 times the Working Load Limit with certification.
- Fatigue rated at 1-1/2 times the Working Load Limit at 20,000 cycles.
- 100% magnaflux crack detection.
- In compliance with EN1677.
- Each hook has a Product Identification Code for material traceability, along with the size and the name TW in raised letters.
- Suitable for use with Grade 100 chain.
- 25% stronger than G80.
- All load pins are individually tested and inspected.
- Painted in TW's Chartreuse, pantone code #388C.
- Subject to an extended one-year after-sale warranty.

WARNING Never Exceed Working Limit

G100 EYE SELF-LOCKING HOOK

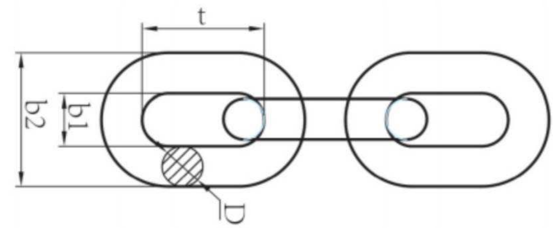
Example of Product Marking:

MARK	10	10	WLL4T	TW	CE	178
DESCRIPTION	CHAIN SIZE	GRADE 100	WORKING LOAD LIMIT	MANUFACTURER	CE CERTIFICATE	BATCH MUMBER

WARNING Never Exceed Working Limit

G100 CHAIN

Example of Chain Design:



G100 CHAIN

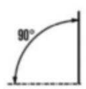
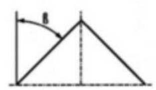
ITEM N0.	W.L.L./T	B.L/T	D(mm)	t(mm)	b1(mm) min	b2(mm) max
6mm	1.4	5.6	6±0.24	18±0.5	8.7	21.6
7mm	1.9	7.6	7±0.28	21±0.6	9.5	25.2
8mm	2.5	10	8±0.32	24±0.7	10.9	28.8
10mm	4	16	10±0.4	30±0.9	13.5	36
13mm	6.7	26.8	13±0.52	39±1.2	17.5	46.8
16mm	10	40	16±0.64	48±1.4	21.5	57.6
19mm	14	56	19±0.90	57±1.6	25.6	68.4
22mm	19	76	22±1.10	66±2.0	29.5	79.2
26mm	21.2	84.8	26±1.30	78±2.3	33.8	96.2
32mm	31.5	126	32±1.60	96±2.9	41.6	118

25% stronger than G80 chain

WARNING Never Exceed Working Limit

G100 CHAIN SLING

Chain Sling WLL Illustration

CHAIN	SINGLE LEG	2 LEGS		3-4 LEGS		CHOKER ENDLESS SLINGS
						
Ø		0°<ß≤45°	45°<ß≤60°	0°<ß≤45°	45°<ß≤60°	
mm	WLL kg	WLL kg		WLL kg		WLL kg
6	1400	2000	1400	3000	2120	2240
7	1900	2650	1900	4000	2800	3000
8	2500	3550	2500	5300	3750	4000
10	4000	2600	4000	8000	6000	6300
13	6700	9500	6700	14000	10000	10600
16	10000	14000	10000	21200	15000	16000
19	14000	20000	14000	30200	21200	22400
22	19000	26500	19000	40200	28000	30000

WLL is in accordance with EN818-4.

WLL REDUCTION

CHAIN SLING TEMPERATURE	REDUCTION IN WORKING LOAD LIMIT
-40℃ - 200℃	NONE
200℃ - 300℃	10%
400℃ - 400℃	25%
above 400℃	Do not use!!

TW-ID TAG FOR G100 SLING	

WARNING Never Exceed Working Limit

TW PRODUCTS

G100 CHAIN SLING

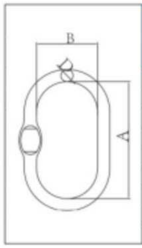
WARNING Never Exceed Working Limit

G100 MASTER LINK

- Forged super alloy steel - Quenched and Tempered.
- Suitable for G100 chain.
- 25% stronger than G80.
- Individually proof tested at 2.5 times Working Load Limit.
- Fatigue tested at 1.5 times Working Load Limit for 20,000 cycles.
- 100% magnaflux crack detection.
- Powder - coated finish.

TW 1611

TW1611 - G100 FORGED MASTER LINK



ITEM CODE	G100 CHAIN		WEIGHT (KG)	W.L.L.(T)	DIMENSION(MM)		
	1 LEG SLING	2 LEGS SLING			A	B	D
TW1611-13	6+7	6	0.34	2.3	110	60	13
TW1611-16	8	7	0.53	3.5	110	60	16
TW1611-18	10	8	0.86	5	135	75	18
TW1611-23	13	10	1.6	7.6	160	90	23
TW1611-27	16	13	2.46	10	180	100	27
TW1611-33	19	16	4.14	14	200	110	33
TW1611-36	22	19	6.22	25.1	260	140	36
TW1611-45	26	22	12.85	30.8	340	180	45
TW1611-50	32	26	16.22	40	350	190	50

- Ultimate load is 4 times the Working Load Limit.
- Engineered flat allows use of TW1027 Omega Links.

Regular Marking Information:

MARK	108	10	W.L.L.5T	TW	CE	11-1
DESCRIPTION	CHAIN SIZE	GRADE 100	WORKING LOAD LIMIT	MANUFACTURER	CE CERTIFICATE	BATCH MUMBER

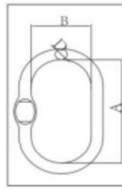
WARNING Never Exceed Working Limit

G100 MASTER LINK

TW 1612

- Forged super alloy steel - Quenched and Tempered.
- Suitable for G100 chain.
- 25% stronger than G80.
- Individually proof tested at 2 times Working Load Limit.
- Fatigue tested at 1.5 times Working Load Limit for 20,000 cycles.
- 100% magnaflux crack detection.
- Powder - coated finish.

TW1612 - G100 FORGED MASTER LINK



ITEM CODE	G100 CHAIN		WEIGHT (KG)	W.L.L.(T)	DIMENSION(MM)		
	1 LEG SLING	2 LEGS SLING			A	B	D
TW1612-86	6/8	6	0.4	2.5	120	70	14
TW1612-108	10	8	0.8	4	140	80	17
TW1612-1310	13	10	1.5	7.5	160	95	22
TW1612-1613	16	13	2.5	10	190	110	28
TW1612-2016	19/20	16	5.2	17	240	140	34
TW1612-2220	22/26	20/22	7.7	28	250	150	42

- Ultimate load is 4 times the Working Load Limit.
- Engineered flat allows use of TW1027 Omega Links.

Regular Marking Information:

MARK	86	10	W.L.L.2.5T	TW	CE	11-1
DESCRIPTION	CHAIN SIZE	GRADE 100	WORKING LOAD LIMIT	MANUFACTURER	CE CERTIFICATE	BATCH MUMBER

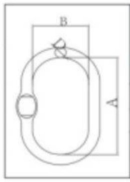
WARNING Never Exceed Working Limit

G100 MASTER LINK

- Forged super alloy steel - Quenched and Tempered.
- Suitable for G100 chain.
- 25% stronger than G80.
- Individually proof tested at 2 times Working Load Limit.
- Fatigue tested at 1.5 times Working Load Limit for 20,000 cycles.
- 100% magnaflux crack detection.
- Powder - coated finish.

TW 1614

TW1614 - G100 FORGED OVERSIZED MASTER LINK



ITEM CODE	G100 CHAIN		WEIGHT (KG)	W.L.L.(T)	DIMENSION(MM)		
	1 LEG SLING	2 LEGS SLING			A	B	D
TW1614-108	8/10	8	3.7	4	340	180	25
TW1614-1310	13	10	4.7	6.7	340	180	28
TW1614-1613	16	13	7.1	10	340	180	34
TW1614-2016	20	16	8.9	16	340	180	42

- Ultimate load is 4 times the Working Load Limit.
- Engineered flat allows use of TW1027 Omega Links.

Regular Marking Information:

MARK	108	10	W.L.L.4T	TW	CE	11-1
DESCRIPTION	CHAIN SIZE	GRADE 100	WORKING LOAD LIMIT	MANUFACTURER	CE CERTIFICATE	BATCH MUMBER

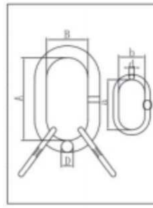
WARNING Never Exceed Working Limit

G100 MASTER LINK ASSEMBLY

TW 1615

- Forged super alloy steel - Quenched and Tempered.
- Suitable for G100 chain.
- 25% stronger than G80.
- Individually proof tested at 2.5 times Working Load Limit.
- Fatigue tested at 1.5 times Working Load Limit for 20,000 cycles.
- 100% magnaflux crack detection.
- Powder - coated finish.
- Forged main link; welded sublinks.

TW1615 - G100 FORGED MASTER LINK



ITEM CODE	G100 CHAIN	WEIGHT (KG)	W.L.L.(T)	DIMENSION(MM)					
	FOR 3/4 LEGS SLING			A	B	D	a	b	d
TW1614-6	6MM	1.3	3	135	75	19	84	25	13
TW1614-8	8MM	2.33	5.3	160	90	23	70	35	16.5
TW1614-10	10MM	3.7	8	180	100	27	85	40	19
TW1614-13	13MM	6.5	14	200	110	33	115	50	23
TW1614-16	16MM	10.1	21.2	260	140	36	140	65	27
TW1614-20	19/20MM	22.8	33.6	350	190	50	150	70	33
TW1614-22	22MM	26	33.9	350	190	50	180	100	36

- Ultimate load is 4 times the Working Load Limit.
- Engineered flat allows use of TW1027 Omega Links.

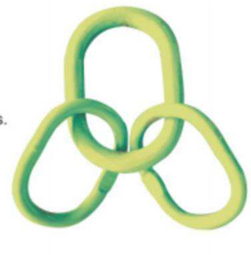
Regular Marking Information:

MARK	6	10	W.L.L.3T	TW	CE	11-1
DESCRIPTION	CHAIN SIZE	GRADE 100	WORKING LOAD LIMIT	MANUFACTURER	CE CERTIFICATE	BATCH MUMBER

WARNING Never Exceed Working Limit

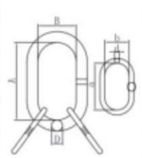
G100 MASTER LINK ASSEMBLY

- Forged super alloy steel - Quenched and Tempered.
- Suitable for G100 chain.
- 25% stronger than G80.
- Individually proof tested at 2 times Working Load Limit.
- Fatigue tested at 1.5 times Working Load Limit for 20,000 cycles.
- 100% magnaflux crack detection.
- Powder - coated finish.
- Forged main link; welded sublinks.



TW 1616

TW1616 - G100 MASTER LINK ASSEMBLY



ITEM CODE	WEIGHT (KG)	W.L.L.(T)	B.L(T)	DIMENSION(MM)					
				A	B	D	a	b	d
TW1616-06	1.8	3.5	14	150	90	19	120	70	14
TW1616-08	3.0	5	20	160	95	22	140	80	17
TW1616-10	6.5	11.5	46	200	120	30	160	95	22
TW1616-13	15	17	68	250	150	40	200	120	30
TW1616-16	23	28	112	300	200	50	200	120	32

- Ultimate load is 4 times the Working Load Limit.
- Engineered flat allows use of TW1027 Omega Links.

Regular Marking Information:

MARK	6	10	W.L.L.3.5T	TW	CE	11-1
DESCRIPTION	CHAIN SIZE	GRADE 100	WORKING LOAD LIMIT	MANUFACTURER	CE CERTIFICATE	BATCH MUMBER

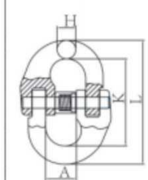
WARNING Never Exceed Working Limit

G100 CONNECTING LINK & COMPONENTS

- Forged super alloy steel - Quenched and Tempered.
- Suitable for G100 chain.
- 25% stronger than G80.
- Individually proof tested at 2.5 times Working Load Limit.
- Fatigue tested at 1.5 times Working Load Limit for 20,000 cycles.
- 100% magnaflux crack detection.
- Powder - coated finish.
- All load pins are individually inspected and tested.

TW 1617

TW1617- G100 CONNECTING LINK



ITEM CODE	WEIGHT(KG)	W.L.L.(T)	B.L(T)	H±1	A±1.5	K±2	L±2.5
TW1617-06	0.08	1.4	5.6	7.6	14	44.5	60
TW1617-08	0.18	2.5	10	10	18.5	61.5	84.5
TW1617-10	0.34	4	16	12.6	23	72	97.2
TW1617-13	0.68	6.7	26.8	16.8	27.5	89	127
TW1617-16	1.22	10	40	21	33.5	103	145
TW1617-20	2.13	16	64	24.5	42	116	175
TW1617-22	3	19	76	27	48	135	193
TW1617-26	5.15	26.5	106	32	61	164	228
TW1617-32	9.5	39.3	157.2	40	80	194	274

- Ultimate load is 4 times the Working Load Limit.
- Regular marking information: 10 - 10 WLL 4 T CE TW + BATCH NUMBER.

SP-TW1617- SPARE PART FOR TW1617

ITEM CODE	SIZE	ITEM CODE	SIZE
SP-TW1617-6	6-10	SP-TW1617-20	20-10
SP-TW1617-8	8-10	SP-TW1617-22	22-10
SP-TW1617-10	10-10	SP-TW1617-26	26-10
SP-TW1617-13	13-10	SP-TW1617-32	32-10

1 SET = GALVANIZED SLEEVE + BLACK PIN.

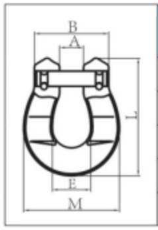
WARNING Never Exceed Working Limit

G100 OMEGA LINK & COMPONENTS

- Forged super alloy steel - Quenched and Tempered.
- Suitable for G100 chain.
- 25% stronger than G80.
- Individually proof tested at 2.5 times Working Load Limit.
- Fatigue tested at 1.5 times Working Load Limit for 20,000 cycles.
- 100% magnaflux crack detection.
- Powder - coated finish.
- All load pins are individually inspected and tested.

TW 1618

TW1618- G100 OMEGA LINK



ITEM CODE	WEIGHT (KG)	W.L.L.(T)	B.L(T)	A±0.5	B±2	E±1.5	M±2	L±2
TW1618-06	0.12	1.4	5.6	8.5	32.5	20	44	55
TW1618-08	0.27	2.5	10	10.5	42	24	60	73.5
TW1618-10	0.44	4	16	12.5	48.5	31	70	90
TW1618-13	0.89	6.7	26.8	16	60	38.5	90	109
TW1618-16	1.69	10	40	19	75.5	51	112	141.5

- Ultimate load is 4 times the Working Load Limit.
- Regular marking information:10 - 10 WLL 4 T CE TW + BATCH NUMBER.

SP-TW**1618**- SPARE PARTS FOR TW**1618**

ITEM CODE	SIZE
SP-TW1618-6	6–10
SP-TW1618-8	8–10
SP-TW1618-10	10–10
SP-TW1618-13	13–10
SP-TW1618-16	16–10

1 SET = 1BLACK PIN + 2 BLACK SPRING TYPE STRAIGHT PINS.

WARNING Never Exceed Working Limit

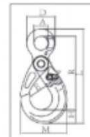
TW PRODUCTS

G100 SELF - LOCKING HOOKS & COMPONENTS

TW 1619 TW 1620

- Forged super alloy steel - Quenched and Tempered.
- Suitable for G100 chain.
- 25% stronger than G80.
- Individually proof tested at 2.5 times Working Load Limit.
- Fatigue tested at 1.5 times Working Load Limit for 20,000 cycles.
- 100% magnaflux crack detection.
- Powder - coated finish.
- All load pins are individually inspected and tested.
- Self - locking when hook is loaded.

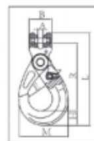
TW1619 - G100 EYE SELF - LOCKING HOOK



ITEM CODE	WEIGHT (KG)	W.L.L.(T)	B.L(T)	A	D±1	E±1	H±1	R±2	M±2	L±3
TW1619-06	0.5	1.4	5.6	21	43	28	20	110	70	141
TW1619-08	0.9	2.5	10	27	51	35.5	26	137	90	175
TW1619-10	1.5	4	16	34.5	64.3	45	30	169	108	212.5
TW1619-13	2.7	6.7	26.8	40	80	53.5	40.5	209	138.5	270
TW1619-16	5.7	10	40	50	104	62	50.5	254	170.5	331
TW1619-20	7.9	16	64	60	120	76.5	62	277	192.5	369
TW1619-22	11.2	19	76	70	134	80	66	319.5	205	417

- Ultimate load is 4 times the Working Load Limit.

TW1620–G100 CLEVIS SELF - LOCKING HOOK



ITEM CODE	WEIGHT (KG)	W.L.L.(T)	B.L(T)	A±0.5	B±1	E±1	H±1	R±2	M±2	L±3
TW1620-06	0.5	1.4	5.6	7.5	32	28	20	96	70	131
TW1620-08	0.9	2.5	10	9.5	36	35.5	26	123	90	166
TW1620-10	1.6	4	16	12	46	45	30	144	109	196.5
TW1620-13	2.9	6.7	26.8	15	59	53.5	40.5	182	138.5	251
TW1620-16	5.8	10	40	17.5	70	62	50.5	217	170.5	303
TW1620-20	8.6	16	64	25	85	76.5	62	235	192.5	337.5
TW1620-22	12.1	19	76	25.5	98	80	66	276.5	205	391

- Ultimate load is 4 times the Working Load Limit.
- Regular marking information:10 - 10 WLL 4 T CE TW + BATCH NUMBER.

SP-TW1620 - SPARE PARTS FOR TW1620

ITEM CODE	SIZE	ITEM CODE	SIZE
SP-TW1620-6	6-10	SP-TW1620-16	16-10
SP-TW1620-8	8-10	SP-TW1620-20	20-10
SP-TW1620-10	10-10	SP-TW1620-22	22-10

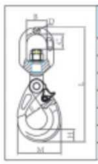
WARNING Never Exceed Working Limit

G100 SELF - LOCKING HOOKS & COMPONENTS

- Forged super alloy steel - Quenched and Tempered.
- Suitable for G100 chain.
- 25% stronger than G80.
- Individually proof tested at 2.5 times Working Load Limit.
- Fatigue tested at 1.5 times Working Load Limit for 20,000 cycles.
- 100% magnaflux crack detection.
- Powder - coated finish.
- All load pins are individually inspected and tested.
- Self - locking when hook is loaded.

TW 1621

TW1621 - G100 SWIVEL SELF - LOCKING HOOK



ITEM CODE	WEIGHT (KG)	W.L.L.(T)	B.L(T)	B±1	C±1	D±0.5	E±1	H±1	M±2	L±3
TW1621-06	0.6	1.4	5.6	32.5	23	11.5	28	20	70	184
TW1621-08	1.1	2.5	10	36	28	13	35.5	26	90	229
TW1621-10	2	4	16	42	35	15.5	45	30	108	269
TW1621-13	4	6.7	26.8	50	40	17	53.5	40.5	138.5	330
TW1621-16	6.8	10	40	61	56	21.5	62	50.5	170.5	413
TW1621-20	12.5	16	64	72	62	26	76.5	62	192.5	463
TW1621-22	17.1	19	76	97	94	33	80	66	205	572

- Ultimate load is 4 times the Working Load Limit.
- Regular marking information: 10 - 10 WLL 4 T CE TW + BATCH NUMBER.

SP-TW1620, TW1619, TW1622 - TRIGGER PARTS

ITEM CODE	SIZE	ITEM CODE	SIZE
TW1620/19/22-6	6-10	10-TW1620/19/22-20	20-10
TW1620/19/22-8	8-10	10-TW1620/19/22-22	22-10

- 1 SET = SELF - COLOR TRIGGER + BLACK SPRING + BLACK SPRING TYPE STRAIGHT PIN.

WARNING Never Exceed Working Limit

G100 EYE SLING HOOKS & COMPONENTS

- Forged super alloy steel - Quenched and Tempered.
- Suitable for G100 chain.
- 25% stronger than G80.
- Individually proof tested at 2.5 times Working Load Limit.
- Fatigue tested at 1.5 times Working Load Limit for 20,000 cycles.
- 100% magnaflux crack detection.
- Powder - coated finish.
- With cast latch.
- With pressed flat suitable for TW1027-G100 Omega link.

TW 1622

TW1622 - G100 EYE SLING HOOK WITH CAST LATCH

ITEM CODE	WEIGHT (KG)	W.L.L.(T)	B.L(T)	D±1	E±2	H±1	M±1	L±2.5
TW1622-06	0.32	1.4	5.6	10	18.5	21	20.5	111
TW1622-08	0.6	2.5	10	11	25	27.5	25	137.5
TW1622-10	1.2	4	16	16	28	33	34	171.5
TW1622-13	2.2	6.7	26.8	19	38	43.5	43	219
TW1622-16	3.5	10	40	24.5	44	50	50	260
TW1622-20	7.15	16	64	27	52	56	55	298
TW1622-22	11.5	19	76	29	66	62	60	330
TW1622-26	12.2	26.5	106	35	73	75	70	376
TW1622-32	17.5	39.3	157.2	39	87	89	81.5	458

- Ultimate load is 4 times the Working Load Limit.
- Regular marking information: 10 - 10 WLL 4 T CE TW + BATCH NUMBER.

SP-TW1622 & TW1623 - LATCH KIT FOR TW1622&TW1623

ITEM CODE	SIZE	ITEM CODE	SIZE
SP-TW1622/3-6	6-10	SP-TW1622/3-20	20-10
SP-TW1622/3-8	8-10	SP-TW1622/3-22	22-10
SP-TW1622/3-10	10-10	SP-TW1622/3-26	26-10
SP-TW1622/3-13	13-10	SP-TW1622/3-32	32-10

- 1 SET = GALVANIZED CAST LATCH + GALVANIZED SPRING + GALVANIZED SCREW + GALVANIZED NUT.

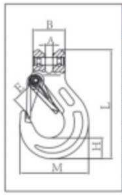
WARNING Never Exceed Working Limit

G100 CLEVIS SLING HOOK & COMPONENTS

- Forged super alloy steel - Quenched and Tempered.
- Suitable for G100 chain.
- 25% stronger than G80.
- Individually proof tested at 2.5 times Working Load Limit.
- Fatigue tested at 1.5 times Working Load Limit for 20,000 cycles.
- 100% magnaflux crack detection.
- Powder - coated finish.
- All load pins are individually inspected and tested.
- With cast latch.

TW 1623

TW1623 - G100 CLEVIS SLING HOOK WITH CAST LATCH



ITEM CODE	WEIGHT (KG)	W.L.L.(T)	B.L(T)	A±0.5	B±1	E±1.5	H±1	M±2	L±2.5
TW1623-06	0.33	1.4	5.6	7.5	32	18.5	21	68.5	109
TW1623-08	0.7	2.5	10	9.5	37	25	27.5	88	134
TW1623-10	1.3	4	16	12	48	28	33.5	105.5	161.5
TW1623-13	2.3	6.7	26.8	15	59	38	42	134	203
TW1623-16	3.6	10	40	17.5	70	44	50	160.5	248
TW1623-20	7.3	16	64	25	85	52	56	190.5	297
TW1623-22	12.1	19	76	27	100	66	62	214.5	326

- Ultimate load is 4 times the Working Load Limit.
- Regular marking information:10 - 10 WLL 4 T CE TW + BATCH NUMBER.

SP-TW1623 - LOAD PIN FOR TW1623

ITEM CODE	SIZE	ITEM CODE	SIZE
SP-TW1623-6	6-10	SP-TW1623-20	20-10
SP-TW1623-8	8-10	SP-TW1623-22	22-10

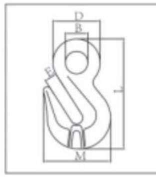
- 1 SET = BLACK PIN + 2 BLACK SPRING TYPE STRAIGHT PINS.

G100 GRAB HOOK & COMPONENTS

TW 1624 TW 1625

- Forged super alloy steel - Quenched and Tempered.
- Suitable for G100 chain.
- 25% stronger than G80.
- Individually proof tested at 2.5 times Working Load Limit.
- Fatigue tested at 1.5 times Working Load Limit for 20,000 cycles.
- 100% magnaflux crack detection.
- Powder - coated finish.
- All load pins are individually inspected and tested.

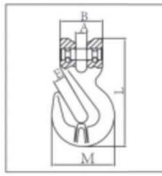
TW 1624 - G100 EYE SHORTENING GRAB HOOK



ITEM CODE	WEIGHT (KG)	W.L.L.(T)	B.L(T)	E±1	B±1	D±1.5	M±2	L±3
TW1624-06	0.2	1.4	5.6	8	14.5	30.5	43.5	71
TW1624-08	0.28	2.5	10	10.8	18	37	53	91.5
TW1624-10	0.72	4	16	13.5	22.5	48.5	72	127.5
TW1624-13	1.6	6.7	26.8	16.5	28	59	96	163
TW1624-16	2.45	10	40	19.2	36	74	112.5	183
TW1624-20	4.72	16	64	24	43.5	89.5	143	227
TW1624-22	8.2	19	76	27	48.5	100.5	160.5	260.5

- Ultimate load is 4 times the Working Load Limit.

TW 1625 - G100 CLEVIS SHORTENING GRAB HOOK



ITEM CODE	WEIGHT (KG)	W.L.L.(T)	B.L(T)	A±0.5	B±1.5	E±1	M±2	L±2
TW1625-06	0.22	1.4	5.6	7.5	32	8	43.5	75
TW1625-08	0.34	2.5	10	9.5	36	10.8	53	91.5
TW1625-10	0.82	4	16	12	46	13.5	72	126
TW1625-13	1.75	6.7	26.8	15	59	16.5	96	163.5
TW1625-16	2.88	10	40	17.5	70	19.2	112.5	183.5
TW1625-20	4.84	16	64	24	85	24	143	224
TW1625-22	8.3	19	76	27	100	27	160.5	262

- Ultimate load is 4 times the Working Load Limit.
- Regular marking information:10 - 10 WLL 4 T CE TW + BATCH NUMBER.

SP–TW1625 - LOAD PIN FOR TW1625

ITEM CODE	SIZE	ITEM CODE	SIZE
SP-TW1625-06	6-10	SP-TW1625-16	16-10
SP-TW1625-08	8-10	SP-TW1625-20	20-10
SP-TW1625-10	10-10	SP-TW1625-22	22-10

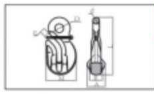
- 1 SET = BLACK PIN + 2 BLACK SPRING TYPE STRAIGHT PINS.

G100 GRAB HOOK WITH SAFETY PIN

- Forged super alloy steel - Quenched and Tempered.
- Suitable for G100 chain.
- 25% stronger than G80.
- Individually proof tested at 2.5 times Working Load Limit.
- Fatigue tested at 1.5 times Working Load Limit for 20,000 cycles.
- 100% magnaflux crack detection.
- Powder - coated finish.

TW 1627 TW 1628

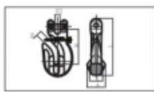
TW 1627 - G100 SPECIAL EYE GRAB HOOK WITH SAFETY PIN



ITEM CODE	WEIGHT (KG)	W.L.L.(T)	B.L(T)	A±1	B±0.8	d±0.5	D±0.5	E±0.5	L±2
TW1627-08	0.5	2.5	10	35	25	12	16.5	10.5	110
TW1627-10	1.0	4	16	64	32	15	21	14	136.5
TW1627-13	2.2	6.7	26.8	57	40	20.5	27.5	15.5	180

- Ultimate load is 4 times the Working Load Limit.

TW 1628 - G100 SPECIAL CLEVIS GRAB HOOK WITH SAFETY PIN



ITEM CODE	WEIGHT (KG)	W.L.L.(T)	B.L(T)	A±1	B±0.8	R±0.5	E2±0.5	E±0.5	L±3
TW1628-08	0.5	2.5	10	35	25	12	16.5	10.5	110
TW1628-10	1.0	4	16	64	32	15	21	14	136.5
TW1628-13	2.2	6.7	26.8	57	40	20.5	27.5	15.5	180

- Ultimate load is 4 times the Working Load Limit.
- Regular marking information: 10 - 10 WLL 4 T CE TW + BATCH NUMBER.

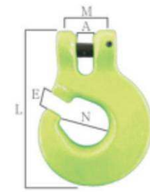
SP–TW1627 & TW1628 - SPARE PART FOR TW1627 & TW1628 (SAFETY PIN)

ITEM CODE	SIZE
SP-TW1627/8-08	8–10
SP-TW1627/8-10	10–10
SP-TW1627/8-13	13–10

- 1 SET = GALVANIZED SPRING + GALVANIZED PIN + GALVANIZED NUT.

G100 COMPONENTS

- Forged super alloy steel - Quenched and Tempered.
- 25% stronger than G80.
- 100% magnaflux crack detection.
- Powder - coated finish.

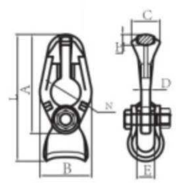


TW1629 - G100 CLEVIS FOREST HOOK

Not for lifting, only for logging.

ITEM CODE	WEIGHT (KG)	W.L.L.(T)	B.L(T)	A±0.5	M±0.8	N±0.5	E±0.5	L±0.5
TW1629-8	0.39	2.5	10	9.5	35	24	9.8	95.5
TW1629-13	1.62	6.7	26.8	16	59	49.5	16	162

- Ultimate load is 4 times the Working Load Limit.
- Regular marking information: 10 - 10 WLL 2.5 T CE TW + BATCH NUMBER.



TW1630 - G100 CHAIN–ROPE CONNECTOR

Not for lifting, only for logging.

ITEM CODE	WEIGHT (KG)	W.L.L.(T)	B.L (T)	A±1	B±1.5	C±1	D±1	E±1	N±1	H±1	L±0.5
TW1630-7/8	0.63	2.5	10	111	58	32	10	20	33.5	12	142

- Ultimate load is 4 times the Working Load Limit.
- Regular marking information: 10 - 10 WLL 2.5 T CE TW + BATCH NUMBER.

TW1631 - G100 CLEVIS LINK

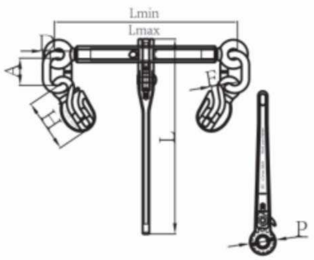
For container lifing.

ITEM CODE	WEIGHT (KG)	W.L.L.(T)	B.L(T)	A±1	B±0.5	C±1	D±1	M±1.5	N±2	H±1	K±0.5	L±1.5	G±0.2	E±1
TW1631-13	1.36	6.7	26.8	59	38	15	50	93	90	21	21.5	174	16	35

- Regular marking information: 10 - 10 WLL 2.5 T CE TW + BATCH NUMBER.

WARNING Never Exceed Working Limit

G100 LOAD BINDERS



TW 1632

TW1632 - G100 RATCHET BINDER WITH SAFETY HOOKS

- Made according to EN121195-3 standard.
- Handle is forged.
- Suitable for G100 chain.
- With G100 eye grab hooks with safety pins.
- Powder - coated finish.
- Not for lifting, only for lashing.

ITEM CODE	WEIGHT (KG)	LC/KN	BF/KN	A ± 4	D ± 1.5	H ± 2	E ± 2	L ± 3	P ± 1	Lmin ± 4	Lmax ± 4
TW1632-8	3.71	50	100	50	12	98	10.5	383	56	340	500
TW1632-10	5.85	80	160	50	14	121.5	13	390	65	365	525
TW1632-13	9.34	134	268	72	20	159.5	15.5	392.5	69	365	525

- BF = LCX2
- Regular marking information:
- Handle: 8MM G10 CE LC50kN
- Hooks: 8MM G10 CE TW + BATCH NUMBER.
- Not for lifting.

TW1632 - G100 RATCHET BINDER WITHOUT LINKS OR HOOKS

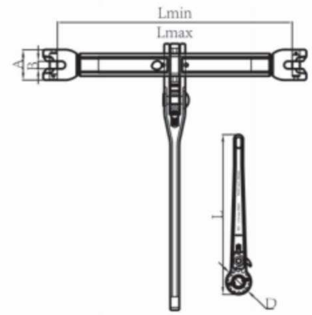
ITEM CODE	WEIGHT (KG)	LC/KN	BF/KN
TW1632-8	2.6	50	100
TW1632-10	4.3	80	160
TW1632-13	5.0	134	268

- BF = LCX2
- Regular marking information:
- Handle: 8MM G10 CE LC50kN
- Hooks: 8MM G10 CE TW + BATCH NUMBER.
- Not for lifting.

TW 1632

WARNING Never Exceed Working Limit

G100 LOAD BINDERS



TW 1633

TW1633 - G100 CLEVIS TYPE RATCHET BINDER

- Made according to EN121195-3 standard.
- Handle is forged.
- Suitable for G100 chain.
- Powder - coated finish.
- Not for lifting, only for lashing.

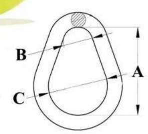
ITEM CODE	WEIGHT (KG)	LC/KN	BF/KN	A±1	B±1.5	L±3	D±1	Lmin±4	Lmax±4
TW1633-8	3.5	50	100	40	10	383	56	312	472
TW1633-10	5.5	80	160	49	13	390	65	337	497
TW1633-13	7.1	134	268	64	16	392.5	69	347	507

- BF = LCX2
- Regular marking information:
- Handle: 8MM G10 CE LC50kN
- Hooks: 8MM G10 CE TW + BATCH NUMBER.
- Not for lifting.

WARNING Never Exceed Working Limit

TW-8001

FORGED PEAR SHAPE LINK(G80)

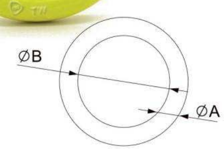


Forged Carbon Steel or Alloy Steel.
Quenched & Tempered.
Ultimate Load is 5 times the Working Load Limit.

Diameter Stock		W. L. L.(t)		Size(mm)			Weight (kgs)
in	mm	Carbon (6: 1)	Alloy (5: 1)	A	B	C	
3/8	10	0.8	1.6	57.2	19.1	38.1	0.10
1/2	13	1.3	3.2	76.2	25.4	50.8	0.25
5/8	16	1.9	4.0	95.3	31.8	63.5	0.50
3/4	19	2.7	5.6	114.3	38.1	76.2	0.80
7/8	22	3.8	6.4	133.4	44.5	88.9	1.26
1	25	4.9	11.0	152.4	50.8	101.6	1.95
1 1/8	28	5.4	13.9	171.5	57.2	114.3	2.92
1 1/4	32	7.6	16.3	190.5	63.5	127.0	3.75
1 3/8	35	9.3	19.5	209.6	69.8	139.7	5.12
1 1/2	38	11.4	24.7	228.6	76.2	152.4	6.50
1 3/4	45	-	38.5	419.1	88.9	177.8	10.20
2	51	-	46.5	304.8	101.6	203.2	15.30

TW-8002

WELDLESS ROUND RING(G80)



Forged Carbon Steel.
Quenched & Tempered.
Ultimate Load is 6 times the Working Load Limit.

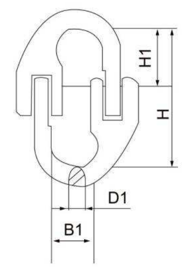
Dimensions(mm)		W. L. L. (t)	Weight (kgs)
A	B		
9.5	50.8	1	0.11
12.7	50.8	1	0.20
15.9	76.2	1.5	0.45
15.9	84	1.5	0.49
19.1	76.2	1.7	0.67
19.1	101.6	1.7	0.84
22.2	101.6	3.3	1.20
22.2	139.5	2.5	1.55
25.4	101.6	4.9	1.59
25.4	139.5	4.9	2.10
28.6	152.4	4.9	2.87
31.8	127	7.7	3.10
31.8	152.4	7.7	3.60
31.8	254.0	7.7	5.60
34.9	152.4	8.6	4.50
38.1	203.2	10.0	6.80
38.1	222.3	10.0	7.32
38.1	254.0	10.0	8.22
50.8	304.8	15.9	17.80

WARNING Never Exceed Working Limit

TW PRODUCTS

TW-8003

CONNECTING LINK, EUROPEAN TYPE(G80)

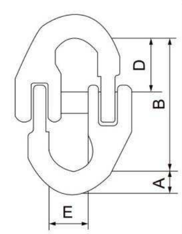


Forged Carbon Steel.
Quenched & Tempered.
Test Load is 2.2 times the Working Load Limit.
Ultimate Load is 4 times the Working Load Limit.

Nominal size (mm)	Dimensions(mm)				W. L. L. (t)	Weight (kgs)
	B 1	D 1	H 1	H		
6	15.2	7.5	18.5	47.5	1.12	0.10
7/8	17.7	9.0	24.0	59.5	2.0	0.16
10	25.0	11.8	28.0	69.8	3.2	0.33
13	30.0	15.5	36.5	89.0	5.3	0.68
16	36.0	19.0	41.0	102	8	1.17
18/20	41.9	23.0	49.0	119	12.5	1.99
22	49.0	24.5	63.0	152.5	15.0	3.08
26	58.5	31.5	69.0	162.4	21.2	5.27
32	67.5	38.5	79.0	194	31.5	9.45

TW-8004

CONNECTING LINK(A-337)(G80)



Forged Alloy Steel.
Quenched & Tempered.
Test Load is 2.2 times the Working Load Limit.
Ultimate Load is 4 times the Working Load Limit.

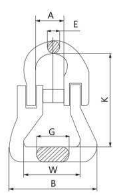
Chain Size		Dimensions(mm)				W. L. L. (t)	Weight (kgs)
in	mm	A	B	D	E		
9/32-1/4	6-7	9.1	47.5	19.8	15.0	1.6	0.12
5/16	8	9.9	56.5	22.4	16.0	2	0.16
3/8	10	13.2	68.2	26.5	20.8	3.2	0.30
1/2	13	16.4	88.4	34.4	27.5	5.4	0.67
5/8	16	19.1	105.4	43.0	34.0	8.2	1.11
3/4	19	24.6	128.5	52.3	39.0	12.8	2.18
7/8	22	26.9	139.7	58.7	50.8	15.5	3.41
1	25	31	152.4	63.5	57.2	21.7	5.01
1 1/4	32	38.1	188.7	77.7	65	32.8	9.26

WARNING Never Exceed Working Limit

TW-8005

WEBBING CONNECTING LINK(G80)

Forged Alloy Steel.
Test Load is 2.2 times the Working Load Limit.
Ultimate Load is 4 times the Working Load Limit.

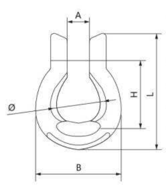



Chain Size (mm)	W. L. L. (t)	Dimensions(mm)						Weight (kgs)
		A	B	K	W	G	E	
6	1.12	15.2	60.0	56	40	18	7.5	0.20
7/8	2.0	19.2	69.6	65.8	45.6	22.8	9.0	0.30
10	3.2	25.0	90.7	75.9	56.5	28.9	11.8	0.68
13	5.3	30.0	104.4	95.6	65.4	34.5	15.5	1.47
16	8	36.0	131.1	115.4	80.2	42	19.0	2.30
20	12.5	41.9	129.0	138	80	51.8	23.0	3.30

TW-8006

OMEGA RING(G80)

Forged Alloy Steel.
Ultimate Load is 4 times the Working Load Limit.

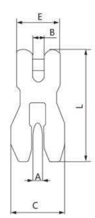



Chain Size (mm)	W. L. L. (t)	Dimensions(mm)					Weight (kgs)
		A	B	H	L	Ø	
6	1.12	8	41	25	52	20.5	0.12
7/8	2	10	52	34	68.5	23.5	0.22
10	3.15	12	62	40.5	81	31.5	0.36
13	5.3	15	81	54	108	41	0.71
16	8	19	99	64	126	49.5	1.3
20	12.5	23	118	75.6	152	58	2.2

TW-8007

CHAIN CLUTCH(G80)

Forged Alloy Steel.
Ultimate Load is 4 times the Working Load Limit.

Nominal size mm	Dimensions(mm)					W. L. L. (t)	Weight (kgs)
	A	B	C	E	L		
6	7.5	7.5	33	26	73.5	1.12	0.17
7/8	9.5	9.5	45	36	101	2	0.41
10	13	13	55	48	138	3.15	0.97
13	18	16	75	59	177	5.3	1.85
16	21	21	93	73	220	8	3.32
20	23	23	100	80	235	12.5	4.43
22	25.5	25.5	118	98	295	15	8.5

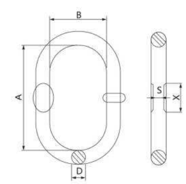
WARNING Never Exceed Working Limit

TW-8008

MASTER LINK – A343(G80)
With Engineered Flat
DIN5688 Without Flat

Forged Alloy Steel.
Test Load is 2 times the Working Load Limit.
Ultimate Load is 4 times the Working Load Limit.

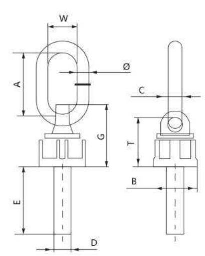
Size	W. L. L. (t)	Dimensions(mm)					Weight (kgs)
		A	B	D	S	X	
76-8	1.6	110	60	13	7	25	0.34
87-8	2.12	110	30	16	7	25	0.54
108-8	3.15	135	75	18	7	35	0.82
1310-8	5.3	160	90	22.0	11	35	1.50
1610-8	8	180	100	26	13	45	2.32
1816-8	11.2	200	110	32	17	45	3.95
2018-8	14	260	140	36	19	56	6.34
2220-8	17	300	160	40	22	56	8.96
2622-8	21.2	340	180	45	26	60	12.81
3226-8	31.5	350	190	50	28	60	16.55
3632-8	45	400	200	56	32	60	23.28
4036-8	56	430	220	63	38	60	32.00
72-8	63	460	250	72.0	42	80	45.76

TW-8009

MULTI-DIRECTIONAL LIFTING SWIVEL(G80)

Forged Alloy Steel.
Ultimate Load is 4 times the Working Load Limit.

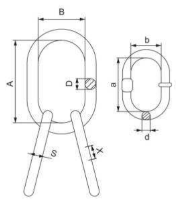
Size	Dimensions(mm)							W. L. L. (t)		Weight (kgs)
D x E	A	B	C	G	T	W	Ø	90°	0°	
M8 x 13	55	36	15.5	52	44	30	13	0.3	0.6	0.43
M10 x 19	55	36	15.5	52	44	30	13	0.45	0.9	0.45
M12 x 19	55	36	15.5	52	44	30	13	0.5	1	0.46
M14 x 22	55	36	15.5	52	44	30	13	1.12	2	0.48
M20 x 30	85	60	22.5	81	69	40	18	2	4	1.55
M22 x 30	85	60	22.5	81	69	40	18	2.00	4	1.56
M24 x 30	85	60	22.5	81	69	40	18	3.15	6.3	1.59
M27x 35	85	60	22.5	81	69	40	18	3.15	6.3	1.61
M30 x 35	115	80	26.5	110	90	50	22	5.3	10.6	3.72
M30 x 50	115	80	26.5	110	90	50	22	8	11.8	3.75
M33 x 50	115	80	26.5	110	90	50	22	8	11.8	3.77
M36 x 54	115	80	26.5	110	90	50	22	8	11.8	3.81
M39 x 58	115	80	26.5	110	90	50	22	8	11.8	3.86
M42 x 63	115	80	26.5	110	90	50	22	10	15	3.88
M45 x 68	115	80	26.5	110	90	50	22	10	15	3.92
M48 x 68	115	80	26.5	110	90	50	22	10	15	3.95
M56 x84	135	104	36.5	140	117	65	28	15	20	8.10
M60 x 90	135	104	36.5	140	117	65	28	15	20	8.85
M64 x 95	135	104	36.5	140	117	65	28	15	20	9.00
M72 x 108	150	125	48.5	331	166	80	40	25	-	22.80
M80 x 120	150	125	48.5	331	166	80	40	30	-	23.90
M90 x 135	-	-	-	-	-	-	-	35	-	25.90

WARNING Never Exceed Working Limit

TW-8010

A346 EUROPEAN TYPE MASTER LINK ASSEMBLY WITH ENGINEERED FLAT(G80)

Forged Alloy Steel.
Test Load is 2 times the Working Load Limit.
Ultimate Load is 4 times the Working Load Limit.

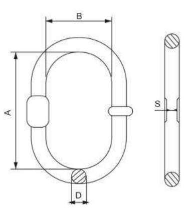


Size (mm)	W. L. L. (t)	Dimensions(mm)								Weight (kgs)
		A	B	D	a	b	d	S	X	
6	2.36	135	75	18	54	25	13	7	25	1.16
7	3.15	135	75	18	30	38	13	7	25	1.24
8	4.25	160	90	22	70	34	16	7	25	2.22
10	6.7	180	100	26	85	40	18	11	35	3.40
13	11.2	200	110	32	115	50	22	13	35	6.10
16	17	260	140	36	140	65	26	17	45	9.98
18	21.2	340	180	45	180	100	32	19	56	18.90
20	26.5	350	190	50	180	100	32	22	56	22.60
22	31.5	350	190	50	180	100	36	24	56	25.20
26	45	400	200	56	200	110	40	26	60	34.26
28	50	430	220	63	200	110	45	30	60	47.11
32	63	460	250	72	200	110	50	-	-	66.46

TW-8011

A344 U.S. TYPE WELDED MASTER LINK WITH ENGINEERED FLAT(G80)

Forged Alloy Steel.
Test Load is 2 times the Working Load Limit.
BF(CHAIN)=4xWLL; BF(ROPE)=5xWLL.



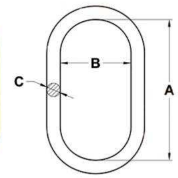
Size (In)	W. L. L.(t)		Dimensions(mm)				Weight (kgs)
	4:1	5:1	A	B	D	S	
7/16	1.6	1.2	100	60	12	6	0.27
1/2	2.76	2.2	100	60	14	7.6	0.38
1 1/16	4	3.2	160	90	18	8.4	0.85
3/4	6.5	5.2	160	90	20	10.4	1.20
7/8	8.2	6.5	180	100	22	13.5	1.63
1	11.5	9.2	180	100	25	16.5	2.13
1 1/8	11.8	9.4	270	140	28	16.5	3.81
1 1/4	16	12.8	270	140	32	18.5	5.05

TW PRODUCTS

TW-8012

WELDLESS ALLOY MASTER LINK(G80)

Forged Alloy Steel.
Test Load is 2 times the Working Load Limit.
Ultimate Load is 5 times the Working Load Limit.

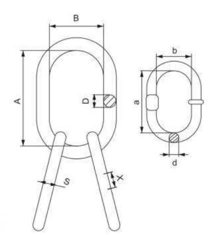


Size		W. L. L.		Dimensions(mm)			Weight (kgs)
in	mm	(t)	(lbs)	A	B	C	
1/2	13	3.2	7000	127	63.5	13	0.39
5/8	16	4.1	9000	152	76	16	0.71
3/4	19	5.6	12300	140	70	19	1.02
7/8	22	6.8	15000	160	89	22	1.57
1	25	11.0	24360	178	90	25	2.10
1 1/4	32	16.4	36200	222	111	32	4.24
1 1/2	38	24.6	54300	267	135	38	7.29
1 3/4	45	38.5	84900	305	152	45	11.54
2	51	46.5	102600	355	178	51	17.20
2 1/4	57	64.9	143100	406	203	57	24.50
2 1/2	63.5	72.6	160000	406	203	63.5	30.90
2 3/4	72	98.4	216900	406	241	70	39.50
3	76	103	228000	457	228	76	50.34
3 1/4	83.5	119	262200	508	254	82.5	65.68
3 1/2	89	126	279000	508	254	86	90.24
3 3/4	95	152	336000	508	254	95	89.23
4	102	169	373000	508	305	101.6	121

TW-8013

A347 U.S. TYPE WELDED MASTER LINK ASSEMBLY WITH ENGINEERED FLAT(G80)

Forged Alloy Steel.
Test Load is 2 times the Working Load Limit.
BF(CHAIN)=4xWLL; BF(ROPE)=5xWLL.



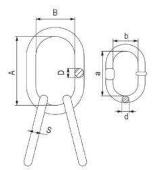
Size (in)	W. L. L.(t)		Dimensions(mm)							Weight (kgs)
	4:1	5:1	A	B	D	a	b	d	S	
1/2	2.4	2	100	60	14	85	40	12	6.1	0.82
5/8	3.2	2.5	160	90	18	100	60	14	7.6	1.60
11/16	3.2	2.5	160	90	18	100	60	14	7.6	1.60
3/4	5	4	160	90	20	100	60	14	7.6	1.95
7/8	8	6.4	180	100	22	150	70	18	8.4	3.16
1 1/8	12	9.6	270	140	28	160	90	22	13.5	6.75
1 1/4	17.4	13.9	270	140	32	180	100	25	16.5	9.31
1 1/2	21	-	300	160	40	270	140	31	-	18.40
1 3/4	30	-	340	180	45	285	155	36	-	26.40
2.0	40	-	350	190	51	340	180	45	-	42.91

TW PRODUCTS

TW-8014

A-345 U.S. TYPE MASTER LINK ASSEMBLY(G80) (FORGED MAIN LINK)

Forged Alloy Steel.
Test Load is 2 times the Working Load Limit.
Ultimate Load is 5 times the Working Load Limit.

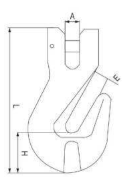


Size (in)	W. L. L. (t)	Dimensions(mm)							Weight (kgs)
		A	B	D	a	b	d	S	
5/8	2.7	152	76.0	16	76	32.0	13	6.4	1.18
3/4	4.1	140	70	20	85	40	14	7.6	1.55
7/8	6.7	178	89	22	100	60	16	7.6	2.57
1	8.4	178	89	25	100	60	18	8.4	3.29
1 1/4	14.1	220	110	32	100	60	22	13.5	7.18
1 1/2	21.3	267	135	38	180	100	28	16.5	12.91
1 3/4	33.3	305	152	45	180	100	35	18.5	21.25
2	40.3	356	178	50	180	100	38	-	30.34

TW-8015

CLEVIS GRAB HOOK(G80)

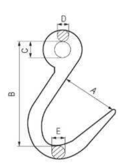
Forged Alloy Steel.
Test Load is 4 times the Working Load Limit.



Size (mm)	W. L. L. (t)	Dimensions(mm)				Weight (kgs)
		A	E	H	L	
6	1.12	8	8	16	75	0.25
7/8	2	9.5	10.8	21.6	90	0.32
10	3.15	12.5	13.5	30	126	0.73
13	5.3	15	16.5	42.5	163.5	1.6
16	8	19.5	19.2	45.5	183.5	2.8
20	12.5	24	24	56	219	5.0
22	15	27	27	68.5	254	6.3

TW-8016

TUBE HOOK(G80)

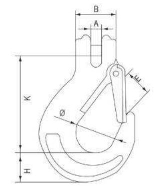


Forged Alloy Steel.
Test Load is 4 times the Working Load Limit.

W. L. L. (t)	Dimensions(mm)					Weight (kgs)
	A	B	C	D	E	
1	76.5	140.5	21.7	15.5	17.5	0.55

TW-8017

CLEVIS SLING HOOK WITH LATCH(G80)

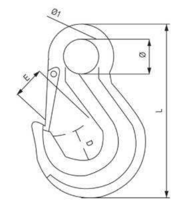


Forged Alloy Steel.
Test Load is 2.2 times the Working Load Limit.
Ultimate Load is 4 times the Working Load Limit.

Chain size (mm)	W. L. L. (t)	Dimensions(mm)						Weight (kgs)
		A	B	Ø	H	K	E	
6	1.12	8	32	35	33	76	26	0.32
7/8	2	9.5	37	37	32.5	85.5	29	0.52
10	3.15	13	49	46	35	104	39	1.20
13	5.3	16.5	56.5	56	42.5	128	47	2.00
16	8	21.5	70.5	60	54	150	55	3.70
20	12.5	24	77	79	58	180	61	6.00
22	15	27	91	101	62	213	72	10.40

TW-8018

EYE SLING HOOK WITH LATCH(G80)

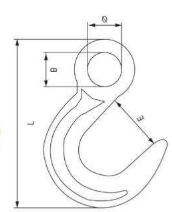


Forged Alloy Steel.
Ultimate Load is 4 times the Working Load Limit.

Chain size (mm)	Dimensions(mm)					W. L. L. (t)	Weight (kgs)
	D	E	L	Ø I	Ø		
6	27.2	24	108	9	20	1.12	0.3
8	29.5	30	133	11	25	2	0.4
10	37.1	34	167	15	38	3.15	1.15
13	48.6	39	213	19	43	5.3	2.32
16	64	46	255	23	50	8	3.45
20	80	40	305	24	62	12.5	6.60
22	80	71	348	32	62	15	8.5
26	82	81	394	35	64	21.2	13
32	112	102	480	37	88	31.5	17

TW-8019

EYE FOUNDRY HOOK(G80)



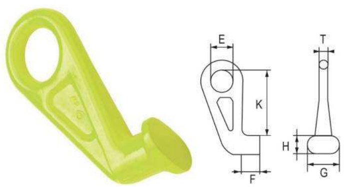
Forged Alloy Steel.
Ultimate Load is 4 times the Working Load Limit.

W. L. L. (t)	Dimensions(mm)				Weight (kgs)
	B	E	L	Ø	
3.2	36	60	173	31	0.99
3.8	36	78	199	31	1.30
5.4	44	86	245	40	2.55
8	53	94	288	49	4.85
12.5	64	106	330	60	6.65

WARNING Never Exceed Working Limit

TW-8020

CONTAINER HOOK(G80)

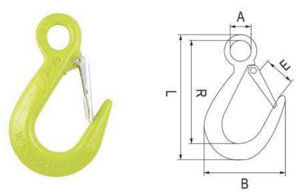


Design factor 4:1 proof tested and certified.

DSC	Dimensions(inch)						W. L. L. (t)	Weight (kgs)
	K	E	F	T	G	H		
Straight	7.56	2.76	1.81	0.98	2.95	1.89	12.50	3.91
Left	7.56	2.76	1.81	0.98	2.95	1.89	12.50	3.91
Right	7.56	2.76	1.81	0.98	2.95	1.89	12.50	3.91

TW-8021

EYE SLIP HOOK WITH LATCH(G80)



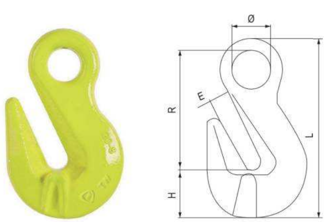
Forged Alloy Steel.
Ultimate Load is 4 times the Working Load Limit.

Dimensions(mm)					M. B. S. (t)	Weight (kgs)
A	B	E	L	R		
23	104.5	37	162	133	4.54	0.44
22	106	40	169.5	133.5	6.35	0.72

TW-8022

EYE GRAB HOOK(G80)

Forged Alloy Steel.
Ultimate Load is 4 times the Working Load Limit.



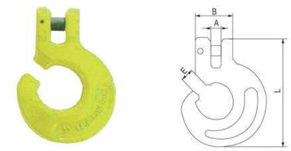
Size (mm)	W. L. L. (t)	Dimensions(mm)					Weight (kgs)
		R	H	E	Ø	L	
6	1.12	51	16	8	13.5	75.2	0.17
8	2	60.5	18.5	10.8	17	88.5	0.245
10	3.15	79.5	29	13	20	121.5	0.65
13	5.3	99.7	42.8	16.5	26	158	1.39
16	8	104	45.7	19.2	30	169	2.2
20	12.5	140	56	24	37	219	4.6
22	15	165	68	28	44	259	8.2
26	21.2	189	77	30	41	298	9.8
32	31.5	228	95	38	57	361	19.4

WARNING Never Exceed Working Limit

TW PRODUCTS

TW-8023

CLEVIS FOREST HOOK(G80)



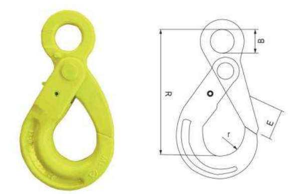
Forged Alloy Steel.
Ultimate Load is 4 times the Working Load Limit.

Chain size (mm)	Dimensions(mm)				W. L. L. (t)	Weight (kgs)
	A	B	E	L		
7/8	9.5	35	10.5	95.5	2	0.41
10	13	44	13	137	3.15	0.92
13	16	53	16	165	5.3	1.75

TW-8024

EYE SELF-LOCKING HOOK(G80)

Forged Alloy Steel
Test Load is 2.5 times the Working Load Limit.
Ultimate Load is 4 times the Working Load Limit.



Size (mm)	Dimensions(mm)				W. L. L. (t)	Weight (kgs)
	B	E	R	r		
6	22	28.6	110	17.5	1.12	0.54
7/8	25.5	34	134	22	2	0.86
10	33	54	168	27.5	3.15	1.52
13	40.5	54	206	34.5	5.3	3.15
16	56	63	255	42	8	6.10
20	60	66	277	48	12.5	8.10
22	69	76	310	49	15	12.6

TW-8025

SWIVEL SELF-LOCKING HOOK(G80)

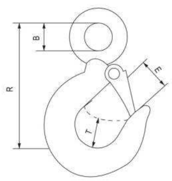
Forged Alloy Steel
Test Load is 2.5 times the Working Load Limit.
Ultimate Load is 4 times the Working Load Limit.

Size (mm)	Dimensions(mm)			W. L. L. (t)	Weight (kgs)
	E	R	r		
6	28.5	128	17.5	1.12	0.71
7/8	34	150	22	2	1.25
10	54	180	27.5	3.15	2.00
13	54	225	34.5	5.3	4.00
16	63	265	42	8	7.80
20	66	290	48	15	10.2
22	76	380	49	21.2	16.6

WARNING Never Exceed Working Limit

TW-8026

ALLOY EYE HOIST HOOK WITH LATCH(G80)

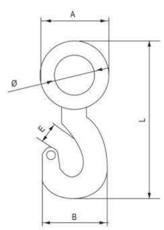



Forged Alloy Steel.
Test Load is 2.5 times the Working Load Limit.
Ultimate Load is 4 times the Working Load Limit.

W. L. L. (t)	Dimensions(mm)				Weight (kgs)
	B	E	R	T	
1.25	19	20	81	19	0.29
1.6	22.5	22	90.5	20.5	0.41
2.5	27	27	105	27	0.61
3.2	32	32	123.5	30	0.98
5.4	39	37	147	37	1.68
8	50	48	190	48	3.63
12.5	64	64	230	66	6.72
16	70.5	60	254	60	10.04

TW-8027

EYE CHOKER HOOK(G80)

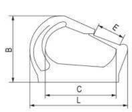
Forged Alloy Steel.
Ultimate Load is 4 times the Working Load Limit.

Chain size (mm)	W. L. L. (t)	Dimensions(mm)					Weight (kgs)
		A	B	E	L	Ø	
7/8	2	52	53.5	16	123	30.5	0.36
10	3.15	68	67.5	20	156	39	0.76
13	5.3	85	83	26	195	52	1.40
16	8	108	107	30	246	64	3.17

TW-8028

WELD ON ANCHOR HOOK(G80)

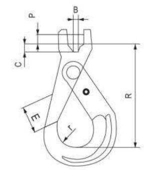
Forged Alloy Steel.
Ultimate Load is 5 times the Working Load Limit.

W. L. L. (t)	Dimensions(mm)				Weight (kgs)
	B	C	E	L	
2	92	67	26.5	114	0.83
3	106	73.5	30.5	129	1.20
5	133	94	34	171	2.46
8	136.5	94	34	177	3.26
10	169.5	134.5	51	223	5.17

TW-8029

CLEVIS SELF-LOCKING HOOK(G80)

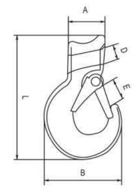



Forged Alloy Steel.
Test Load is 2.5 times the Working Load Limit.
Ultimate Load is 4 times the Working Load Limit.

Size (mm)	Dimensions(mm)						W. L. L. (t)	Weight (kgs)
	B	C	E	P	R	r		
6	7	8	28.5	8	97	17.5	1.12	0.55
7/8	9.5	10	34	10	123	22	2	0.95
10	13.5	13.5	54	12.5	148	27.5	3.15	1.68
13	15	17	54	16	185	34.5	5.3	3.30
16	19	19	63	20	215	42	8	6.25
20	25	22	66	24	235	48	15	8.55
22	28	26	76	27.5	310	49	21.2	11.5

TW-8030

SLIDING CHOKE HOOK(G80)

Dimensions(mm)					W.L.L. (t)	Weight (kgs)
A	B	D	E	L		
50.00	71.00	17.00	21.00	132.00	1.6	0.68
63.50	79.00	22.00	23.00	151.50	2.0	1.21
69.00	103.00	28.00	29.00	170.00	3.0	1.99
85.70	135.00	32.50	38.00	213.00	5.0	4.18

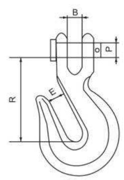
TW-8031

15''CLEVIS J-HOOK(G80)

Designed for grade 70 and grade 80 tow chains, this drop forged long shank J hook is easy to use yet strong and reliable for your most demanding towing job.
Working Load Limit: 7100 LBS
Weight: 4 lbs.

TW-7001

CLEVIS GRAB HOOK

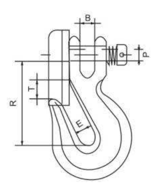



Forged Carbon or Alloy Steel.
Ultimate Load is 4 times the Working Load Limit.

Size Of Chain		W.L.L.(t)		Dimensions(mm)				Weight (kgs)
in	mm	Carbon	Alloy	B	E	P	R	
1/4	6	1.18	1.43	9.1	10.2	9.5	50.0	0.25
5/16	8	1.77	2.13	10.3	11.3	11.0	56.8	0.37
3/8	10	2.45	2.99	12.0	12.7	12.0	66.7	0.49
7/16	11	3.27	3.97	14.5	14.5	14.0	73.5	0.74
1/2	13	4.17	5.13	17.0	17.0	16.0	84.5	1.07
5/8	16	5.91	7.17	23.1	19.8	19.0	104.0	1.94
3/4	19	9.18	11.20	23.9	23.9	22.4	117.6	2.95

TW-7002

CLEVIS GRAB HOOK WITH LATCH

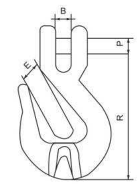
Forged Carbon or Alloy Steel.
Ultimate Load is 4 times the Working Load Limit.

Size Of Chain		W.L.L.(t)		Dimensions(mm)					Weight (kgs)
in	mm	Carbon	Alloy	B	E	P	R	T	
1/4	6	1.18	1.63	9.1	10.2	9.5	50.0	10.0	0.28
5/16	8	1.77	2.45	10.3	11.3	11.0	56.0	12.5	0.43
3/8	10	2.45	3.40	12.0	12.7	12.0	66.7	10.5	0.6
1/2	13	4.17	5.78	17.0	17.0	16.0	84.5	17.8	1.18
5/8	16	5.78	8.62	23.1	19.8	19.0	104.0	20.4	2.12

WARNING Never Exceed Working Limit

TW-7003

CRADLE CLEVIS GRAB HOOK

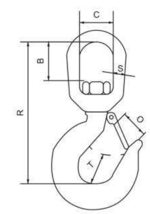



Forged Alloy Steel.
Ultimate Load is 4 times the Working Load Limit.

Chain Size		W.L.L. (t)	Dimensions(mm)				Weight (kgs)
in	mm		B	E	P	R	
1/4	6	1.0	8.0	8.8	7.9	45.0	0.20
5/16	8	2.0	10.0	10.5	9.6	49.6	0.36
3/8	10	3.0	13.5	13.0	11.8	65.0	0.60
1/2	13	5.0	17.0	17.0	16.0	83.0	1.09

TW-7004

SWIVEL HOOK WITH LATCH

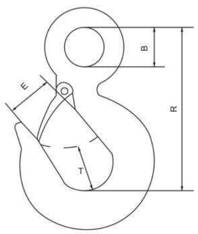
Forged Carbon or Alloy Steel.
Proof Load is 2 times the Working Load Limit.
Ultimate Load is 5 times the Working Load Limit.

W.L.L.(t)		Dimensions(mm)						Weight (kgs)
Carbon	Alloy	B	C	O	R	S	T	
3/4	1	23.8	31.8	22.3	113.5	9.5	20.5	0.40
1	1 1/2	33.0	38.1	24.6	136.5	12.7	20.5	0.58
1 1/2	2	41.3	44.5	25.4	152.8	15.9	21.3	1.03
2	3	39.7	44.5	28.4	161.9	15.9	26.0	1.29
3	4 1/2	44.5	50.8	34.0	188.1	19.1	35.0	2.33
5	7	58.7	63.5	42.9	243.7	25.4	45.1	4.72
7 1/2	11	60.3	69.9	52.2	282.6	28.6	53.8	7.37
10	15	71.4	79.4	57.0	303.2	31.8	63.5	10.63
15	22	114.0	105.0	81.0	431.0	40.0	72.0	21.40
20	30	105.0	105.0	82.5	472.0	40.0	75.5	32.00

WARNING Never Exceed Working Limit

TW-7005

EYE HOIST HOOK WITH LATCH

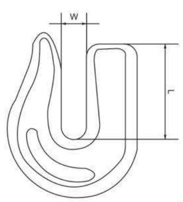



Forged Carbon or Alloy Steel.
Proof Load is 2 times the Working Load Limit.
Ultimate Load is 5 times the Working Load Limit.

W.L.L.(t)		Dimensions(mm)				Weight (kgs)
Carbon	Alloy	B	E	R	T	
1/2	3/4	16.0	20.5	71.1	16.5	0.18
3/4	1	19.0	21.0	81.7	20.0	0.25
1	1 1/2	23.0	23.0	93.0	21.3	0.41
1 1/2	2	28.4	24.5	103.7	21.3	0.59
2	3	31.8	26.5	118.9	27.5	0.93
3	4 1/2	39.6	33.5	146.6	36.0	1.77
5	7	50.8	38.0	188.5	46.0	3.25
7 1/2	11	61.9	48.0	230.0	53.8	2.90
10	15	73.0	57.0	257.7	58.0	10.15
15	22	89.0	74.0	316.0	65.0	16.25
20	30	90.0	98.0	255.9	75.0	27.20

TW-7006

WELDABLE GRAB HOOK

Forged Carbon Steel.
Ultimate Load is 4 times the Working Load Limit.

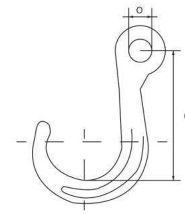
Chain Size		W.L.L.(t)	Dimensions(mm)		Weight (kgs)
in	mm	Carbon	L	W	
5/16	8	2.1	31	11	0.19
3/8	10	3	40	13	0.40
1/2	13	5.13	44	16.5	0.79
5/8	16	7.18	51	20.6	1.50

WARNING Never Exceed Working Limit

TW PRODUCTS

TW-7007

J HOOK WITH ROUND HOLE

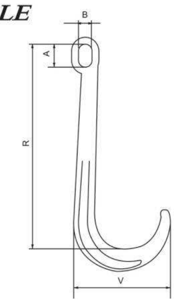



Forged Alloy Steel.
Ultimate Load is 4 times the Working Load Limit.

Size		Dimensions(mm)			W.L.L. (t)	Weight (kgs)
in	mm	L	O	Open size		
8	202	171	19	105.5	2.45	1.31
15	380	348	19	105.5	2.45	2.22

TW-7008

J HOOK WITH ELLIPSE HOLE

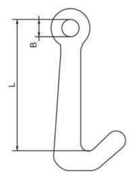
Forged Alloy Steel.
Ultimate Load is 4 times the Working Load Limit.

Size		Dimensions(mm)				W.L.L. (t)	Weight (kgs)
in	mm	A	B	R	V		
8	202	32	19.5	162	146	2.45	1.5
15	380	32	19.5	319	146	2.45	2.0

WARNING Never Exceed Working Limit

TW-7009

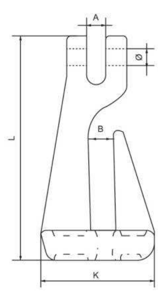
MINI J HOOK

Size		Dimensions(mm)		M. B. S. (lbs)	Weight (lbs)
in	mm	L	B		
5/16-3/8	7-8	104	14.5	18700	0.70

TW-7010

CLEVIS GRAB BENT HOOK

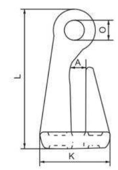



Size		M. B. S. (lbs)	Dimensions(mm)					Weight (lbs)
in	mm		A	L	B	K	Ø	
5/16	8	9988	11.00	120.5	11.8	58.0	12.0	0.99

TW PRODUCTS

TW-7011

BENT EYE GRAB HOOK

Size		M. B. S. (lbs)	Dimensions(mm)				Weight (lbs)
in	mm		A	K	L	O	
5/16	8	9988	10.20	58.1	77.9	12.5	0.81
3/8	10	13200	12.80	67.2	120.0	21.7	1.39

TW-7012

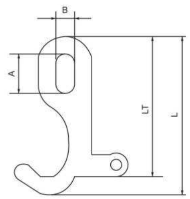
DATSUN MINI J HOOK

Size		M. B. S.(lbs)	
in	mm	Carbon	Alloy
5/16	8	15600	18800

WARNING Never Exceed Working Limit

TW-7013

COMBO MINI J & T HOOK ON RING

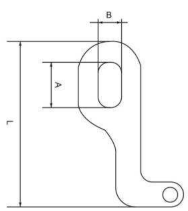


Forged Carbon or Alloy Steel.

Size		Dimensions(mm)				M. B. S. (lbs)		Weight (lbs)
in	mm	A	B	L	LT	Carbon	Alloy	
5/16	8	28.4	12.7	114	100.5	11200.0	15600.0	0.77

TW-7014

T-EYE HOOK

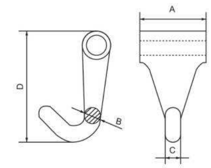


Forged Carbon or Alloy Steel.

Size		Dimensions(mm)			M. B. S. (lbs)		Weight (lbs)
in	mm	A	B	L	Carbon	Alloy	
5/16	8	28.9	14.2	101	15600.0	18700.0	0.57

TW-7015

FINGER HOOK

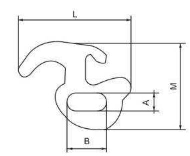


Forged Carbon or Alloy Steel.

Dimensions(mm)				M. B. S. (lbs)	Weight (lbs)
A	B	C	D		
52	12	13	87	7040	0.73

TW-7016

R HOOK



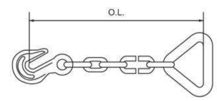
Forged Carbon or Alloy Steel.

Chain Size		Dimensions(mm)				M. B. S. (lbs)		Weight (lbs)
in	mm	A	B	L	M	Carbon	Alloy	
5/16	8	14.2	28.9	86.5	67.1	11600.0	18700.0	0.66

WARNING Never Exceed Working Limit

TW-7017

CHAIN ANCHOR WITH DELTA RING

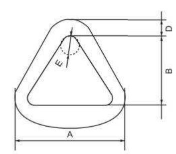


Hooks Forged Carbon Steel.

Chain size (in.)	Delta Ring Size (in)	M. B. S. (lbs)	O.L. (mm)	Weight (lbs)
5/16	3	7.5	457	2.88
3/8	4	8.7	457	3.45

TW-7018

DELTA RING



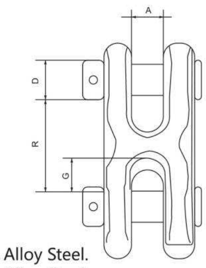
Forged Carbon Steel.

Size		Dimensions(mm)				M. B. S. (lbs)	Weight (lbs)
in	mm	A	B	D	E		
2	51	80.3	45	12	7.5	5.0	0.44
3	76	109.4	60	14	20	8.2	0.79
4	102	142	74	16	25	9.1	1.36

TW PRODUCTS

TW-7019

DOUBLE CLEVIS LINKS

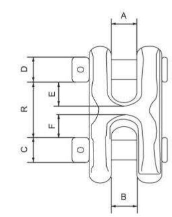


Body is Forged and Heat Treated Carbon or Alloy Steel.
Pins are made from Quenched & Tempered Alloy Steel.
Ultimate Load is 4 times the Working Load Limit.

Size		Dimensions(mm)				W. L. L. (lbs)	Weight (lbs)
in	mm	A	D	G	R		
1/4-5/16	6-8	11.9	9.7	10.9	30	4400	0.33
3/8	10	13.5	11.9	12.2	34	6600	0.44
7/16-1/2	11-13	16.5	14.2	16	44	11000	0.99
5/8	16	19.8	17.5	19.1	54	16500	1.32

TW-7020

X TYPE CLEVIS LINKS

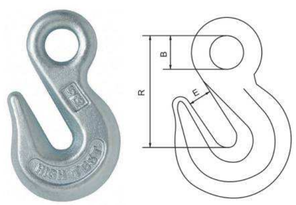


Body is Forged and Heat Treated Carbon or Alloy Steel.
Pins are made from Quenched & Tempered Alloy Steel.
Ultimate Load is 4 times the Working Load Limit.

Size		Dimensions(mm)							W. L. L. (lbs)	Weight (lbs)
in	mm	A	B	C	D	R	E	F		
1/4	6	12.7	12.7	12.7	12.7	12.7	12.7	12.7	2596	0.44
5/16-3/8	8-10	14.2	14.2	14.2	14.2	14.2	14.2	14.2	5390	0.81
7/16	11	17.5	17.5	17.5	17.5	17.5	17.5	17.5	6996	1.28
1/2	13	20.6	20.6	20.6	20.6	20.6	20.6	20.6	9196	1.67
5/8	16	19.8	19.8	19.8	19.8	19.8	19.8	19.8	17490	2.90

TW-3001

EYE GRAB HOOK

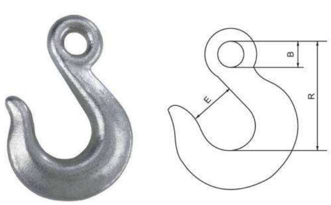


Forged Carbon or Alloy Steel.
Ultimate Load is 4 times the Working Load Limit.

Size Of Chain		W.L.L.(t)		Dimensions(mm)			Weight (kgs)
in	mm	Carbon	Alloy	B	E	R	
1/4	6	1.18	1.43	13.5	8.6	47.2	0.13
5/16	8	1.77	2.13	15.8	11.2	58.0	0.20
3/8	10	2.45	2.99	20.6	12.7	68.0	0.36
7/16	11	3.27	3.97	19.0	14.2	74.6	0.54
1/2	13	4.17	5.13	22.4	16.7	85.7	0.82
5/8	16	5.91	7.17	26.9	19.8	104.2	1.50
3/4	19	9.18	11.20	35.1	23.8	130.9	2.72

TW-3002

EYE SLIP HOOK

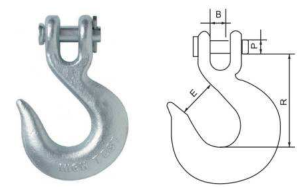


Forged Carbon or Alloy Steel.
Ultimate Load is 4 times the Working Load Limit.

Size Of Chain		W.L.L.(t)		Dimensions(mm)			Weight (kgs)
in	mm	Carbon	Alloy	B	E	R	
1/4	6	0.88	1.25	12.7	23.8	64.9	0.20
5/16	8	1.30	1.95	16.0	26.9	74.0	0.29
3/8	10	1.82	2.38	18.3	33.2	85.2	0.50
7/16	11	2.27	3.18	20.6	39.6	98.6	0.73
1/2	13	2.95	4.08	23.9	42.9	108.5	1.17
5/8	16	4.20	6.12	28.7	50.8	132.6	2.09
3/4	19	5.67	8.74	35.0	54.1	147.3	2.95

TW-3003

CLEVIS SLIP HOOK

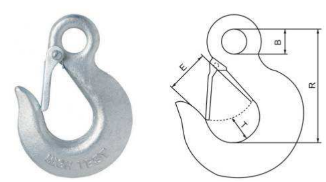


Forged Carbon or Alloy Steel.
Ultimate Load is 4 times the Working Load Limit.

Size Of Chain		W.L.L.(t)		Dimensions(mm)				Weight (kgs)
in	mm	Carbon	Alloy	B	E	P	R	
1/4	6	1.18	1.43	11.0	24	9.5	66.5	0.23
5/16	8	1.77	2.13	12.7	27.3	11.0	73.2	0.34
3/8	10	2.45	2.99	14.5	33.2	12.0	85.0	0.55
7/16	11	3.27	3.97	17.3	39.6	14.0	93.1	0.94
1/2	13	4.17	5.13	19.5	43.3	16.0	118.0	1.27
5/8	16	5.91	7.17	23.1	52.0	19.0	125.5	2.16
3/4	19	9.18	11.20	33.3	63.5	25.4	154.5	4.68

TW-3004

EYE SLIP HOOK WITH LATCH

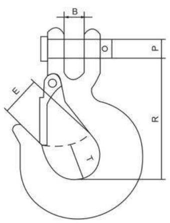


Forged Carbon or Alloy Steel.
Ultimate Load is 4 times the Working Load Limit.

Size Of Chain		W.L.L.(t)		Dimensions(mm)				Weight (kgs)
in	mm	Carbon	Alloy	B	E	R	T	
1/4	6	0.88	1.25	12.7	19.0	64.9	20.0	0.19
5/16	8	1.30	1.95	16.0	22.3	74.8	20.0	0.33
3/8	10	1.82	2.38	18.3	27.9	85.2	25.9	0.47
7/16	11	2.27	3.18	20.5	31.7	98.4	26.9	0.74
1/2	13	2.95	4.08	23.8	35.0	108.5	33.0	1.11
5/8	16	4.20	6.12	28.7	36.8	132.6	38.9	1.87
3/4	19	5.67	8.74	35.1	40.3	147.3	41.1	3.07

TW-3005

CLEVIS SLIP HOOK WITH LATCH

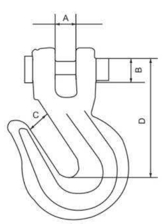


Forged Carbon or Alloy Steel.
Ultimate Load is 4 times the Working Load Limit.

Size Of Chain		W.L.L.(t)		Dimensions(mm)					Weight (kgs)
in	mm	Carbon	Alloy	B	E	P	R	T	
1/4	6	0.89	1.25	11.0	20.0	9.5	65.0	20.0	0.24
5/16	8	1.30	1.95	12.7	23.6	11.0	73.2	20.0	0.35
3/8	10	1.82	2.38	15.0	28.9	12.0	85.0	25.9	0.56
7/16	11	2.27	3.18	16.7	30.0	14.0	94.3	26.9	0.96
1/2	13	2.95	4.08	19.4	36.1	16.0	101.6	35.0	1.29
5/8	16	4.20	6.12	23.1	41.8	19.1	125.4	42.9	2.35
3/4	19	5.68	8.74	33.3	46.0	29.0	154.7	46.0	4.75

TW-3006

CLEVIS GRAB HOOK

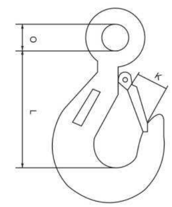


Size (in)	W.L.L. (t)	Dimensions(mm)				Weight (kgs)
		A	B	C	D	
1/4	1.18	8.9	9.6	9.9	50	0.15
5/16	1.31	10.4	10.9	11.2	57.6	0.3
3/8	1.81	11.9	11.9	12.9	66.8	0.5
1/2	4.18	18.5	13.9	17.5	79.5	1.0
5/8	5.91	23.1	19.1	20.1	125.4	1.7

WARNING Never Exceed Working Limit

TW-3007

EYE HOOK WITH LATCH (DIN-689)

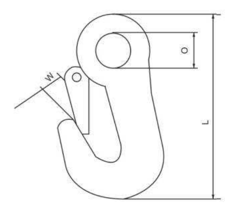


Forged Carbon Steel.
Ultimate Load is 4 times the Working Load Limit.

W.L.L. (t)	Dimensions(mm)			Weight (kgs)
	O	K	L	
0.25	12	18	64	0.16
0.5	16	24	85	0.36
1	26	39	138	0.88
1.6	32	49	174	1.40
2.5	36	54	190	3.05
3.2	40	62	219	5.85
5	46	69	246	8.30
6.3	52	78	277	11.7

TW-3008

WINCH HOOK WITH LATCH



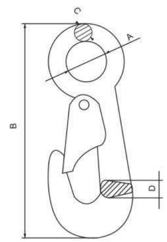
Forged Carbon Steel.

Size		Dimensions(mm)			M. B. S. (t)	Weight (kgs)
in	mm	L	O	W		
5/8	16	110	19	18	2.7	0.24

WARNING Never Exceed Working Limit

TW-3009

ROPE HOOK (SINGLE LATCH)

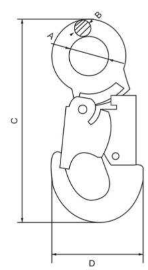



Forged Carbon Steel.

Dimensions(mm)				Weight (lbs)
A	B	C	D	
26	131	10.2	10.7	0.6

TW-3010

ROPE HOOK (TWO LATCHES)

Forged Carbon Steel.

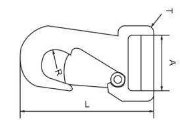
Dimensions(mm)				Weight (lbs)
A	B	C	D	
26.6	10.3	133.4	60.3	0.64

WARNING Never Exceed Working Limit

TW PRODUCTS

TW-3011

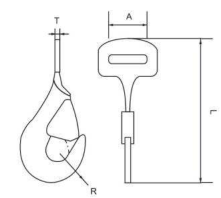
FLAT SNAP HOOK

Size		Dimensions(mm)				M. B. S. (lbs)
in	mm	A	T	R	L	
2	50	52	5	12	123	11000

TW-3012

FLAT TWISTED SNAP HOOK

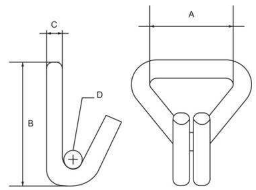



Size		Dimensions(mm)				M. B. S. (lbs)
in	mm	A	T	R	L	
2	50	49	6	12	158	11000

WARNING Never Exceed Working Limit

TW-3013

DOUBLE J HOOK

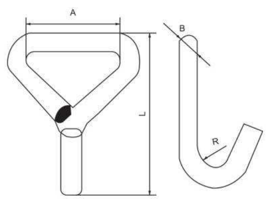


Forged Carbon Steel.

Size		Dimensions(mm)				M. B. S. (lbs)
in	mm	A	B	C	D	
2	50	50	85	10	25	5000

TW-3014

SINGLE WIRE HOOK

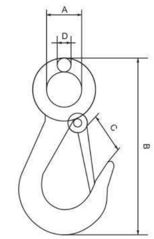


Size		Dimensions(mm)				M. B. S. (lbs)
in	mm	A	B	R	L	
2	50	51	15	9	124	11000

TW PRODUCTS

TW-3015

STAINLESS STEEL LARGE EYE CRANE HOOK

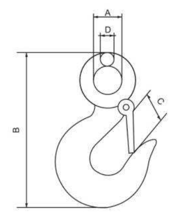


AISI 304 OR 316

W.L.L. (lbs)	Dimensions(mm)				Weight (lbs)
	A	B	C	D	
440	18.5	92	19	7	0.2
660	19.5	102	16.5	7.5	0.28
1100	28	119	19	9.5	0.46

TW-3016

STAINLESS STEEL EYE CARGO HOOK



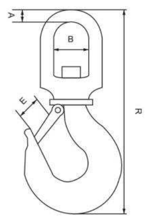
AISI 304 OR 316

W.L.L. (lbs)	Dimensions(mm)				Weight (lbs)
	A	B	C	D	
1100	16.5	90	16	8	0.32
1650	18.5	101.5	18.5	9	0.45
2200	23	114.5	21	11	0.63
3300	28	129.5	21.5	12	0.92
4400	32	153	26	15	1.44
6600	38	182.5	31.5	17.5	2.76

WARNING Never Exceed Working Limit

TW-3017

STAINLESS STEEL SWIVEL EYE HOOK WITH LATCH

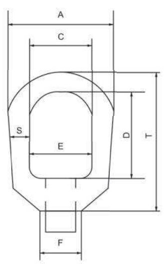


AISI 304 OR 316

Size (in.)	Dimensions(mm)				W.L.L. (lbs)	Weight (lbs)
	A	B	E	R		
1/4	6.3	22	15.8	101	880	0.04
5/16	7.9	28.6	19	127	1320	0.52
3/8	9.5	30.1	22	152	1760	1.01
1/2	12.7	34.9	30.1	203	2640	2.3

TW-3018

EYE NUT



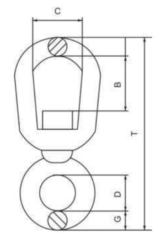
Forged Carbon Steel.
Ultimate Load is 5 times the Working Load Limit.

Size (in.)	Dimensions(mm)							W. L. L. (t)	Weight (kgs)
	A	C	D	E	F	S	T		
1/4	31.8	19.1	27	16.7	12.7	6.4	42.9	0.24	0.04
5/16	31.8	19.1	27	16.7	12.7	6.4	42.9	0.39	0.04
3/8	41.3	25.4	31.8	19.1	14.3	7.9	52.4	0.57	0.08
7/16	50.8	31.8	38.1	25.4	20.6	9.5	63.5	0.77	0.13
1/2	50.8	31.8	38.1	25.4	20.6	9.5	63.5	1.02	0.13
5/8	63.5	38.1	50.8	30.2	25.4	12.7	81	1.63	0.26
3/4	76.2	44.5	60.3	34.9	28.6	15.9	98.4	2.36	0.45
7/8	88.9	50.8	66.7	41.3	33.3	19.1	109.5	3.27	0.77
1	101.6	57.2	77.8	47.6	39.7	22.2	127	4.50	1.25
1 1/8	101.6	57.2	77.8	47.6	39.7	22.2	127	5.58	1.25
1 1/4	114.3	63.5	88.9	49.2	47.6	25.4	146.1	7.04	1.75
1 3/8	127	69.9	93.6	50.8	50.8	28.6	158.8	8.40	2.72
1 1/2	142.9	79.4	101.6	60.3	57.2	31.8	171.5	10.2	3.04
2	177.8	101.6	158.8	101.6	85.7	38.1	254	18.2	8.49

WARNING Never Exceed Working Limit

TW-3019

EYE – RING SWIVEL

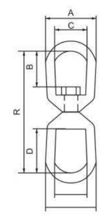


Forged Carbon Steel.
Ultimate Load is 5 times the Working Load Limit.

Size		Dimensions(mm)					W. L. L. (t)	Weight (kgs)
in	mm	B	C	D	G	T		
1/4	6.4	17.5	19.1	15.7	6.4	76.2	0.39	0.06
5/16	7.9	20.6	25.4	18.3	7.9	91.2	0.57	0.12
3/8	9.5	23.9	31.8	25.4	9.7	113	1.14	0.25
1/2	12.7	33.3	38.1	31.8	12.7	145	1.63	0.51
5/8	15.9	39.6	44.5	38.1	15.7	175	2.36	0.95
3/4	19.1	44.5	50.8	44.5	19.1	199	3.26	1.45
7/8	22.2	52.3	57.2	50.8	22.2	229	4.54	2.30
1	25.4	58.7	63.5	57.2	25.4	260	5.68	3.61
1 1/8	28.6	59.2	69.9	63.5	28.7	286	7.49	5.45
1 1/4	31.8	67.6	79.5	69.9	31.8	309	8.17	7.00
1 1/2	38.1	111.6	101.6	76.2	38.1	416	20.5	15.04

TW-3020

EYE – EYE SWIVEL



Forged Carbon Steel.
Ultimate Load is 5 times the Working Load Limit.

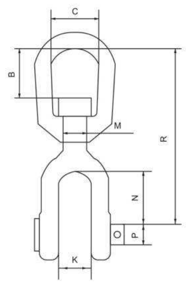
Size		Dimensions(mm)					W. L. L. (t)	Weight (kgs)
in	mm	A	B	C	D	R		
1/4	6.4	31.8	17.5	19.1	27	75	0.39	0.10
5/16	7.9	41.3	20.6	25.4	31.8	90	0.57	0.18
3/8	9.5	50.8	23.9	31.8	38.1	110	1.14	0.34
1/2	12.7	63.5	33.3	38.1	50.8	138	1.63	0.65
5/8	15.9	76.2	39.6	44.5	60.3	167	2.36	1.14
3/4	19.1	88.9	44.5	50.8	66.7	183	3.26	1.88
7/8	22.2	101.6	52.3	57.2	77.8	213	4.54	2.84
1	25.4	114.3	58.7	63.5	88.9	245	5.68	4.09
1 1/8	28.6	127	59.2	69.9	95.3	183	7.49	5.00
1 1/4	31.8	143	67.6	79.5	101.6	283	8.17	7.43
1 1/2	38.1	178	111.8	101.6	152.4	435	20.5	22.30

WARNING Never Exceed Working Limit

TW PRODUCTS

TW-3021

EYE – JAW SWIVEL

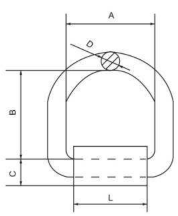


Forged Carbon Steel.
Ultimate Load is 5 times the Working Load Limit.

Size		Dimensions(mm)							W. L. L. (t)	Weight (kgs)
in	mm	B	C	K	M	N	P	R		
1/4	6.4	17.5	19.1	11.9	8	22.4	6.4	67	0.39	0.10
5/16	7.9	20.6	25.4	12.7	10	22.4	7.9	75	0.57	0.15
3/8	9.5	23.9	31.8	16	14	26.9	9.7	92	1.14	0.30
1/2	12.7	33.3	38.1	19.1	16	33.3	12.7	114	1.63	0.61
5/8	15.9	39.6	44.5	23.9	18	38.1	16	135	2.36	1.13
3/4	19.1	44.5	50.8	28.7	22	44.5	19.1	154	3.26	1.76
7/8	22.2	52.3	57.2	30.2	24	52.3	22.4	178	4.54	2.66
1	25.4	58.7	63.5	44.5	27	71.4	28.7	217	5.68	4.47
1 1/4	31.8	67.6	79.5	52.3	39	71.4	35.1	240	8.17	7.15
1 1/2	38.1	111.8	101.6	73.2	56	112.8	57.2	374	20.5	24.8

TW-3022

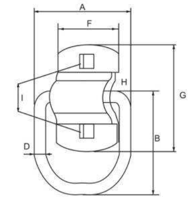
D RING WITH WELD–ON CLIP



Size A* B* D (in.)	Dimensions(mm)					M. B. S (t)	Weight (kgs)
	A	B	C	D	L		
2 1/4 x 2 1/2 x 1/2	57.2	63.5	15.5	12.7	44.8	5.4	0.43
3 x 3 x 5/8	76.2	76.2	23.4	15.9	63	8.2	0.85
3 x 3 x 3/4	76.2	76.2	23.4	19.1	63	12.0	1.25
3 x 3 x 1	76.2	76.2	30.8	25.4	64	21.3	1.91
3 x 4 x 1	76.2	101.6	30.8	25.4	64	21.3	2.15

TW-3023

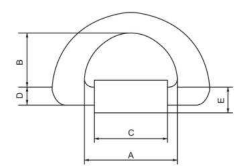
BOLT–ON D RING



Dimensions(mm)						
A	B	D	F	G	H	I
3.38	3.50	0.50	1.75	3.25	0.250''	0.500''
4.25	4.25	0.63	2.25	3.75	0.38	0.500''

TW-3024

WIDE D RING



Dimensions(mm)					M. B. S (t)	Weight (kgs)
A	B	C	D	E		
136.0	80.0	120.0	21.0	25.5	36.0	2.46
144.0	88.0	125.0	25.0	30	41.0	3.70
151.0	90.0	130.0	27.0	32	50.0	4.41

TW-3025

BENT WELD–ON D RING

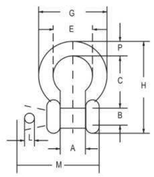
Size	Breaking Strength
½''	12000lbs
5/8''	18000lbs
¾''	26500lbs
1''	47000lbs

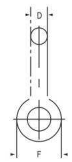
WARNING Never Exceed Working Limit

WARNING Never Exceed Working Limit

TW-6001

U.S. SCREW PIN ANCHOR SHACKLES





Screw Pin Anchor Shackles
Meet the performance requirements of Federal Specification RR-C-271D Type IVA, Grade A, Class 2

Bolt Type Anchor shackles with thin head bolt-nut with cotter pin
Meet the performance requirements of Federal Specification RR-C-271D Type IVA, Grade A, Class 3

Nominal Size (IN.)	W. L. L. (LBS)	Weight Each (LBS)	Dimensions(MM)											Tolerance +/-	
			A	B	C	D	E	F	G	H	L	M	P	C	A
3/16	660	0.07	9.65	6.35	22.4	4.85	15.2	14.2	24.9	37.3	4.06	28.4	4.85	1.50	1.50
1/4	1100	0.11	11.5	7.85	28.7	6.35	19.8	15.5	32.5	46.7	4.85	35.1	6.35	1.50	1.50
5/16	1650	0.20	13.5	9.65	31.0	7.85	21.3	19.1	37.3	53.0	5.60	42.2	7.85	3.30	1.50
3/8	2200	0.31	16.8	11.2	36.6	9.65	26.2	23.1	45.2	63.0	6.35	51.5	9.65	3.30	1.50
7/16	3300	0.37	19.1	12.7	42.9	11.2	29.5	26.9	51.5	74.0	7.85	60.5	11.2	3.30	1.50
1/2	4400	0.73	20.6	16.0	47.8	12.7	33.3	30.2	58.5	83.5	9.65	68.5	12.7	3.30	1.50
5/8	7150	1.36	26.9	19.1	60.5	16.0	42.9	38.1	74.5	106	11.2	85	17.5	6.35	1.50
3/4	10450	2.35	31.8	22.4	71.5	19.1	51.0	46.0	89.0	126	12.7	101	20.6	6.35	1.50
7/8	14300	3.61	36.6	25.4	84.0	22.4	58.0	53.0	102	148	12.7	114	24.6	6.35	1.50
1	18700	5.01	42.9	28.7	95.5	25.4	68.5	60.5	119	167	14.2	129	26.9	6.35	1.50
1-1/8	20900	7.39	46.0	31.8	108	29.5	74.0	68.5	131	190	16.0	142	31.8	6.35	1.50
1-1/4	26400	9.48	51.5	35.1	119	32.8	82.5	76.0	146	210	17.5	156	35.1	6.35	1.50
1-3/8	29700	13.51	57.0	38.1	133	26.1	92.0	84.0	162	233	19.1	174	38.1	6.35	3.30
1-1/2	37400	17.16	60.5	41.4	146	39.1	98.5	92.0	175	254	20.6	187	41.1	6.35	3.30
1-3/4	55000	27.7	73.0	51.0	178	46.7	127	106	225	313	25.4	231	57.0	6.35	3.30
2	77000	44.9	82.5	57.0	197	53	146	122	253	348	31.0	263	60.0	6.35	3.30
2-1/2	121000	85.6	105	70.0	267	69	184	145	327	453	35.1	330	79.5	6.35	6.35

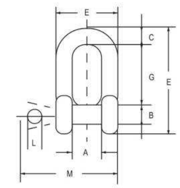
Have a design factor of 6:1 in relation to minimum break strength.
Maximum Proof Load is 2 times the Working Load Limit. Minimum Ultimate Strength is 6 times the Working Load Limit.

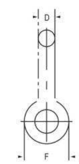
WARNING Never Exceed Working Limit

TW PRODUCTS

TW-6002

U.S. SCREW PIN CHAIN SHACKLES





Screw Pin Anchor Shackles
Meet the performance requirements of Federal Specification RR-C-271D Type IVB, Grade A, Class 2

Bolt Type Anchor shackles with thin head bolt-nut with cotter pin
Meet the performance requirements of Federal Specification RR-C-271D Type IVB, Grade A, Class 3

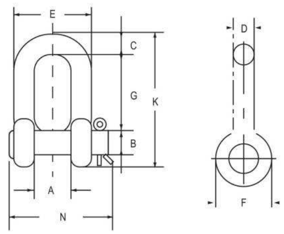
Nominal Size (IN.)	W. L. L. (LBS)	Weight Each (LBS)	Dimensions(MM)									Tolerance +/-	
			A	B	C	D	E	F	G	L	M	C	A
1/4	1100	0.11	11.9	7.85	6.35	6.35	24.6	15.5	22.4	40.4	4.85	1.50	1.50
5/16	1650	0.18	13.5	9.65	7.85	7.85	29.5	19.1	26.2	48.5	5.60	1.50	1.50
3/8	2200	0.29	16.8	11.2	9.65	9.65	35.8	23.1	31.8	58.5	6.35	3.30	1.50
7/16	3300	0.44	19.1	12.7	11.2	11.2	41.4	26.9	36.6	67.5	7.85	3.30	1.50
1/2	4400	0.59	20.6	16.0	12.7	12.7	46.0	30.2	41.4	77.0	9.65	3.30	1.50
5/8	7150	1.25	26.9	19.1	15.7	16.0	58.5	38.1	51.0	95.5	11.2	3.30	1.50
3/4	10450	2.64	31.8	22.4	20.6	19.1	70.0	46.0	60.5	115	12.7	6.35	1.50
7/8	14300	3.15	36.6	25.4	24.6	22.4	81.0	53.0	71.5	135	12.7	6.35	1.50
1	18700	4.73	42.9	28.7	25.4	25.4	93.5	60.5	81.0	151	14.2	6.35	1.50
1-1/8	20900	6.73	46.0	31.8	31.8	28.7	103	68.5	91.0	172	16.0	6.35	1.50
1-1/4	26400	9.04	51.5	35.1	35.1	31.8	115	76.0	100	191	17.5	6.35	1.50
1-3/8	29700	11.62	57.0	38.1	38.1	35.1	127	84.0	111	210	19.1	6.35	3.30
1-1/2	37400	15.91	60.5	41.4	41.1	38.1	137	92.0	122	230	20.6	6.35	3.30
1-3/4	55000	26.6	73.0	51.0	54.0	44.5	162	106	146	279	25.4	6.35	3.30
2	77000	42.2	82.5	57.0	60.0	51.0	184	122	172	312	31.0	6.35	3.30
2-1/2	121000	71.5	105	70.0	66.5	66.5	238	145	203	377	35.1	6.35	6.35

Have a design factor of 6:1 in relation to minimum break strength.
Maximum Proof Load is 2 times the Working Load Limit. Minimum Ultimate Strength is 6 times the Working Load Limit.

WARNING Never Exceed Working Limit

TW-6003

G-215 / S-215 ROUND PIN CHAIN SHACKLE



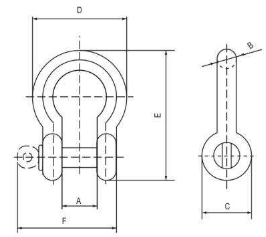
Nominal Size	W.L.L.		Weight Each		Dimensions(MM)									Tolerance +/-	
IN.	T	LBS	KG	LBS	A	B	C	D	E	F	G	K	N	G	A
1/4	1/2	1100	0.05	0.11	11.9	7.85	6.35	6.35	24.6	15.5	22.4	40.4	34.0	1.50	1.50
5/16	3/4	1650	0.08	0.176	13.5	9.65	7.85	7.85	29.5	19.1	26.2	48.5	40.4	1.50	1.50
3/8	1	2200	0.11	0.242	16.8	11.2	9.65	9.65	35.8	23.1	31.8	58.5	47.2	3.30	1.50
7/16	1-1/2	3300	0.18	0.396	19.1	12.7	11.2	11.2	41.4	26.9	36.6	67.5	54.0	3.30	1.50
1/2	2	4400	0.23	0.506	20.6	16.0	12.7	12.7	46.0	30.2	41.4	77.0	60.5	3.30	1.50
5/8	3-1/4	7150	0.55	1.21	26.9	19.1	15.7	16.0	58.5	38.1	51.0	95.5	74.0	3.30	1.50
3/4	4-3/4	10450	0.91	2.002	31.8	22.4	20.6	19.1	70.0	46.0	60.5	115	87.0	6.35	1.50
7/8	6-1/2	14300	1.49	3.278	36.6	25.4	24.6	22.4	81.0	53.0	71.5	135	96.5	6.35	1.50
1	8-1/2	18700	2.15	4.73	42.9	28.7	25.4	25.4	93.5	60.5	81.0	151	115	6.35	1.50
1-1/8	9-1/2	20900	2.86	6.292	46.0	31.8	31.8	28.7	103	68.5	91.0	172	130	6.35	1.50
1-1/4	12	26400	4.08	8.976	51.5	35.1	35.1	31.8	115	76.0	100	191	140	6.35	3.30
1-3/8	13-1/2	29700	5.44	11.968	57.0	38.1	38.1	35.1	127	84.0	111	210	156	6.35	3.30
1-1/2	17	37400	7.33	16.126	60.5	41.4	41.1	38.1	137	92.0	122	230	165	6.35	3.30
1-3/4	25	55000	13.6	29.92	73.0	51.0	54.0	44.5	162	106	146	279	197	6.35	3.30
2	35	77000	19.6	43.12	82.5	57.0	51.0	53.3	184	122	172	312	222	6.35	3.30

***NOTE: Maximum Proof Load is 2.0 times the Working Load Limit. Mimimum Ultimate Strength is 6 times the Woking Load Limit.**

WARNING Never Exceed Working Limit

TW-6004

BOW SHACKLE



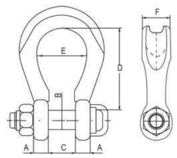
Size (IN.)	W.L.L. (T)	Weight Each (LBS)	Dimensions(MM)					
			A	B	C	D	E	F
3/16	1/3	0.027	9.6	4.82	14.22	24.89	37.34	28.95
1/4	1/2	0.045	11.94	6.35	15.49	32.51	46.74	36.32
5/16	3/4	0.08	13.46	7.87	19.05	37.33	53.09	43.43
3/8	1	0.14	16.76	9.65	2.3.11	45.21	63.24	51.31
7/16	1-1/2	0.17	19	11.18	26.92	51.56	73.91	60.19
1/2	2	0.33	20.6	12.70	30.23	58.67	83.31	68.33
5/8	3-1/4	0.62	26.92	16.00	38.10	74.67	106.42	84.83
3/4	4-3/4	1.07	31.75	19.05	45.97	88.90	126.23	100.83
7/8	6-1/2	1.65	36.57	22.35	53.09	102.36	148.08	114.30
1	8-1/2	2.29	42.93	25.4	60.45	119.12	166.62	130.30
1-1/8	9-1/2	3.37	45.97	29.46	68.33	131.06	189.73	145.03
1-1/4	12	4.32	51.56	32.77	76.20	146.05	209.55	158.75
1-3/8	13-1/2	6.15	57.15	36.07	84.07	162.05	232.66	173.48
1-1/2	17	7.82	60.45	39.12	92.20	174.75	254.00	186.18
1-3/4	25	12.63	73.15	46.73	106.43	225.04	313.43	230.12
2	35	20.45	82.55	52.83	122.17	253.23	346.20	263.14
2-1/2	55	38.98	104.90	68.83	144.53	326.89	453.13	330.20

WARNING Never Exceed Working Limit

TW PRODUCTS

TW-6005

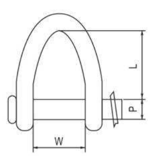
WIDE BODY SHACKLE



W.L.L. (t)	Weight (lbs)	Dimensions(mm)					
		A	B	C	D	E	F
30	24	40	42	65	165	127	79
40	44	45	51	80	200	140	97
55	66	55	57	85	240	160	100
75	110	70	70	105	290	186	120
125	202	85	80	130	365	220	150
150	277	89	95	140	390	250	170
200	404	100	105	150	480	276	205
250	594	110	120	170	540	300	240
300	825	122	134	185	600	350	265
400	1269	145	160	220	575	370	320
500	1672	160	180	250	680	450	340
600	2173	170	200	275	740	490	370

TW-6006

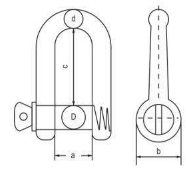
WEB SLING SHACKLE



Size (in.)	W.L.L. (lbs)	Weight Each (lbs)	Dimensions(mm)		
			L	P	W
2	8050	1.71	50.8	19.1	50.8
3	13050	2.8	80.9	22.2	76.2
4	10800	3.1	87.3	22.2	101.6
5	18000	4.8	104.7	25.4	127
6	18000	6.82	101.6	28.6	152.4

TW-6007

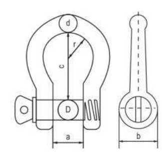
STAINLESS STEEL EUROPEAN TYPE CHAIN SHACKLE



SIZE (mm)	SWL (kg)	D (mm)	d (mm)	a (mm)	c (mm)	b (mm)	WEIGHT PER 100 PCS (kg)
5	80	5	5	10	19	11	1.85
6	100	6	6	13	25	11	3.3
8	200	8	8	16	32	18	6.8
10	320	10	10	19	38	20	12.6
12	520	12	12	25	51	26	23
16	800	16	16	32	64	33	48.5
20	1100	20	20	38	76	40	78
22	1500	22	22	44	89	50	126
25	2100	25	25	51	100	57	194
28	3000	28	28	57	115	68	291
32	3500	32	32	64	127	73	417
38	5000	38	38	76	152	85	655
45	7000	45	45	90	180	96	1213
50	8000	50	50	102	200	108	1698

TW-6008

STAINLESS STEEL EUROPEAN TYPE SCREW PIN BOW SHACKLE



SIZE (mm)	SWL (kg)	D (mm)	d (mm)	a (mm)	c (mm)	r (mm)	b (mm)	WEIGHT PER 100 PCS (kg)
5	80	5	5	10	19	8	11	2
6	100	6	6	13	25	10	14	3
8	200	8	8	16	32	12	18	7
10	320	10	10	19	38	16	20	13
12	520	12	12	25	51	19	26	26
16	800	16	16	32	64	28	33	50
20	1100	20	20	38	76	33	40	80
22	1500	22	22	44	89	37	50	130
25	2100	25	25	51	100	40	57	200
28	3000	28	28	57	115	47	68	310
32	3500	32	32	64	127	52	73	430
38	5000	38	38	76	152	63	85	700
45	7000	45	45	90	180	75	96	1250
50	8000	50	50	102	200	78	108	1750

WARNING Never Exceed Working Limit

WARNING Never Exceed Working Limit

TW PRODUCTS Wire Rope Products are :

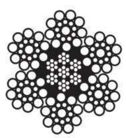
Made in accordance with Federal Specifiction RR-W-410D

Made with improved or Extra Improved Plow Steel

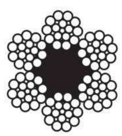
Bright and Galvanized wire rope available with light or medium Petrolatum, or Asphalt lubrication.

TW−6009

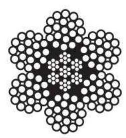
6x19 Classification Wire Ropes



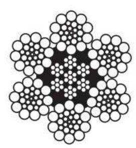
6X19 SEALE IWRC



6X21 FILLER WIRE FC



6X25 FILLER WIRE IWRC



6X26 WARRINGTON SEALE IWRC Zipline

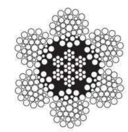
This wire rope classification is also known as 6x25 or 6x26, consists of 6 outer strands of 19 wires each with a fiber core (FC) or IWRC core, and is available in galvanized or bright. Some uses for this type of rope are general purpose and industrial such as crane rigging, slings, and more.

WARNING Never Exceed Working Limit

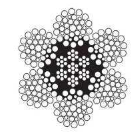
TW PRODUCTS

TW−6010

6x36 Classification Wire Ropes



6X36 SEALE FILLER WIRE



6X36 WARRINGTON SEALE IWRC

This wire rope classification consists of 6 outer strands of 36 wires each with a fiber core (FC) or IWRC core, and is also available in galvanized or bright. Uses are for the same as 6x19 classification ropes, but are used in applications where more flexibility is required.

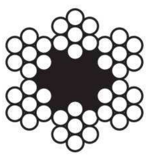
Rope Diameter (in.)	Nominal Breaking Strength in Tons of 2000lbs (Bright or Drawn Galvanized)			Approx. Weight Per Foot (lbs)	
	I.P.S. F.C.	I.P.S. IWRC	E.I.P.S. IWR	F.C.	IWRC
1/4	2.74	2.94	3.4	0.105	0.116
5/16	4.26	4.58	5.27	0.164	0.18
3/8	6.1	6.56	7.55	0.236	0.26
7/16	8.27	8.89	10.2	0.32	0.35
1/2	10.7	11.5	13.3	0.42	0.46
9/16	13.5	14.5	16.8	0.53	0.59
5/8	16.7	17.9	20.6	0.66	0.72
3/4	23.8	25.6	29.4	0.95	1.04
7/8	32.2	34.6	39.8	1.29	1.42
1	41.8	44.9	51.7	1.68	1.85
1-1/8	52.6	56.5	65	2.13	2.34
1-1/4	64.6	69.4	79.9	2.63	2.89
1-3/8	77.7	83.5	96	3.18	3.5
1-1/2	92	98.9	114	3.78	4.16
1-5/8	107	115	132	4.44	4.88
1-3/4	124	133	153	5.15	5.67
1-7/8	141	152	174	5.91	6.5
2	160	172	198	6.72	7.39

WARNING Never Exceed Working Limit

TW-6011

Galvanized Trawl Rope

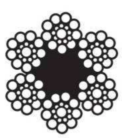
This wire rope classification consists of 6 outer strands of 7 wires each with a polypropylene core (PPC). Uses for this material include trawl cable (trawl rope) for commercial fishing, sand line (for well drilling), and more.



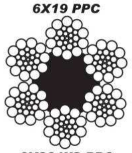
6X7 PPC

Diameter (in.)	Approx.Weight Per Foot (lbs)	Nominal Breaking Strength (lbs)
1/4	0.094	4760
5/16	0.15	7380
3/8	0.21	10540
7/16	0.29	14280
1/2	0.38	18540
9/16	0.48	23400
5/8	0.59	28600
3/4	0.84	40800

This wire rope classification consists of 6 outer strands of 19 wires each with a polypropylene core (PPC). Uses for this material include trawl cable (trawl rope) for commercial fishing and more. Larger diameters are 6x26 construction.



6X19 PPC



6X26 WS PPC

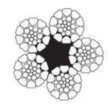
Diameter (in.)	Approx.Weight Per Foot (lbs)	Nominal Breaking Strength (lbs)
1/4	0.105	4940
5/16	0.164	7660
3/8	0.236	10980
7/16	0.32	14880
1/2	0.42	19260
9/16	0.53	24300
5/8	0.66	30000
3/4	0.95	42800
7/8	1.29	58000
1	1.68	75200
1-1/8	2.13	94600

WARNING Never Exceed Working Limit

TW-6012

Compacted Wire Rope

This wire rope classification has 6 outer strands of 26 wires each with a polypropylene core (PPC). Compacted to provide higher breaking strength on smaller diameter cable, compacted ropes are often used in commercial fishing. This type of wire rope runs in metric sizes.



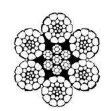
6X26WS PPC

Diameter (mm)	Approx.Weight Per Foot (lbs)	Nominal Breaking Strength (lbs)
16	0.701	38800
18	0.884	48900
20	1.091	60600
22	1.3125	74500

TW-6013

Super Swaged Wire Rope

This wire rope classification has 6 outer strands of 26 wires each with an IWRC core. By swaging the surface of wire rope, this construction is strong against abrasion and crushing, while maintaining high breaking strength. Super swaged ropes are used often in the logging industry, and sometimes on cranes, when higher breaking strength is required from smaller diameters.



6X26WS PPC

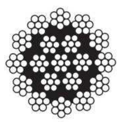
Diameter (in.)	Approx.Weight Per Foot (lbs)	Nominal Breaking Strength (lbs)
1/2	0.605	34700
9/16	0.779	43500
5/8	0.957	53900
3/4	1.37	76800
7/8	1.87	104000

WARNING Never Exceed Working Limit

TW-6014

Rotation & Spin Resistant Wire Rope

Rotation resistant ropes are designed to resist the tendency to spin or rotate under load. Used for general use on single-part crane lines to lift a free load, or where rotation resistance is crucial.



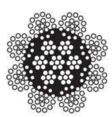
19X7

Diameter (in.)	Approx.Weight Per Foot (lbs)	Nominal Breaking Strength (lbs)
1/4	0.11	5880
3/8	0.25	13080
7/16	0.35	17720
1/2	0.45	22800
9/16	0.58	28800
5/8	0.71	35600
3/4	1.02	51000
7/8	1.39	69000
1	1.82	89800
1-1/8	2.30	112800

TW-6015

Spin Resistant Wire Rope

While not as rotation resistant as 19x7 rope, 8x25 Spin Resistant rope is more stable. With its increased resistance to bending fatigue and crushing, it is also used for general purpose on single-part crane lines and sometimes multi-part wire rope systems.



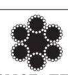
8X25 Filler Wire IWRC

Diameter (in.)	Approx.Weight Per Foot (lbs)	Nominal Breaking Strength (lbs)
3/8	0.26	13260
7/16	0.36	17940
1/2	0.47	23200
9/16	0.60	29400
5/8	0.73	36200
3/4	1.06	51800
7/8	1.44	70000
1	1.88	91000

TW-6016

Deck Lashing Cable

Not used for overhead lifting, deck lashing cable is used for securing loads on barges, ships and the like. Also used as perimeter cable in building construction.



6X15+7FC

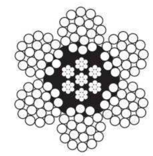
Diameter (in.)	Approx.Weight Per Foot (lbs)	Nominal Breaking Strength (lbs)
1/2	0.25	11400
5/8	0.39	18700
3/4	0.56	26900

TW PRODUCTS

TW-6017

Stainless Steel Wire Rope–6x19, 6x25, 6x36

Similar in construction to 6x19 class IWRC galvanized wire rope, stainless steel ropes are used for general purpose in corrosive environments.



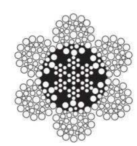
6X19 or 6X25 Filler

Diameter (in.)	Approx.Weight Per Foot (lbs)	Nominal Breaking Strength (lbs)
7/16	0.35	16300
1/2	0.46	22800
9/16	0.59	28500
5/8	0.72	35000
3/4	1.04	49600
7/8	1.42	66500
1	1.85	85400
1-1/8	2.34	106400
1-1/4	2.89	129400
1-3/8	3.50	153600

TW-6018

Stainless Steel Wire Rope–6x19, 6x25, 6x36

Similar in construction to 6x36 class IWRC galvanized wire rope, stainless steel ropes are used for general purpose in corrosive environments, but with more flexibility than 6x19 class.

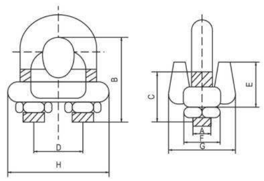


6X36WS

Diameter (in.)	Approx.Weight Per Foot (lbs)	Nominal Breaking Strength (lbs)
7/16	0.35	16300
1/2	0.46	22800
9/16	0.59	28500
5/8	0.72	35000
3/4	1.04	49600
7/8	1.42	66500
1	1.85	85400

TW-6019

U.S. TYPE DROP FORGED WIRE ROPE CLIP



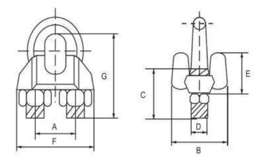
SIZE(IN)	A MM	B MM	C MM	D MM	E MM	F MM	G MM	H MM	WEIGHT (LBS)
1/8	5.5	18	11	12	9.4	9.6	20.6	21	0.1
3/16	6.3	24	14	15	12.7	11.1	23.8	23	0.1
1/4	7.8	26	15	19	16.8	14.2	30.2	30	0.2
5/16	9.6	35	19	22	18.5	17.5	33.2	33	0.3
3/8	11.2	38	19	25	23.1	19	41	41	0.5
7/16	12.7	47	25	30	28.7	22.3	48.5	48	0.8
1/2	12.7	47	25	30	28.7	22.3	48.5	48	0.8
9/16	14.2	57	32	33	34	23.8	52.3	52	1.1
5/8	14.2	57	32	33	34	23.8	52.3	52	1.1
3/4	15.7	70	36	38	35.3	26.9	57	57	1.4
7/8	19.1	79	41	44	40	32	62	62	2.1
1	19.1	89	46	48	45	31	66.8	66	2.5
1-1/8	19.1	98	51	50	48	31	71.4	71	2.8
1-1/4	22.3	112	56	59	55	36.5	79.5	79	4.4
1-3/8	22.3	112	56	59	59	36.5	79.5	79	4.4
1-1/2	22.3	125	60	66	62	36.5	86.6	86	5.4
1-5/8	25.4	135	66	70	68	41	92.2	92	7.0
1-3/4	28.7	146	70	77	74	46	96.8	96	9.3
2	31.7	163	76	86	77	50	112	112	13.0
2-1/4	31.7	181	81	99	81	50	116	116	16.0
2-1/2	31.7	195	87	105	93	50	119	119	19.0
2-3/4	31.7	211	85	111	112	50	127	127	23.0
3	38.1	233	98	120	123	60	135	134	31.0
3-1/2	38.1	273	114	140	152	60	157	157	40.0

Meet the performance requirements of FED SPEC FF−C−450 Type 1, Class 1.

WARNING Never Exceed Working Limit

TW-6020

U.S. TYPE MALLEABLE WIRE ROPE CLIP

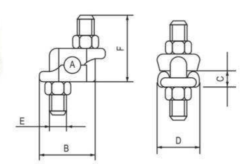


SIZE (IN)	A MM	B MM	C MM	D MM	E MM	F MM	G MM	WEIGHT (LBS)
1/16	9.6	11.4	11.4	3.8	11.4	17.5	16.5	0.03
1/8	12.7	14	12.7	4.5	12.7	23.8	20	0.04
3/16	14.2	16	14.2	6.3	14.2	26.9	23.8	0.06
1/4	19	19	19	7.8	19	33.2	30	0.13
5/16	19	19	21	7.8	21	36.5	33	0.15
3/8	22.3	22.3	25.4	9.6	25	41	41	0.21
7/16	26.9	26.9	30	11.2	30	48	50.8	0.24
1/2	26.9	26.9	30	11.2	30	48	50.8	0.37
9/16	31	32.5	35	12.7	35	53	58.6	0.55
5/8	31	32.5	35	12.7	35	53	58.6	0.59
3/4	33	39.6	39.6	14.2	39	60	65	0.830
7/8	41	46	46	16	46	73	77.7	1.250
1	47.8	50.8	50.8	16	50.8	76	87	1.650
1-1/8	50.8	52	69.8	19	69.8	85	101	2.430

Meet the performance requirements of FED SPEC FF−C−450 Type 1, Class 2.

TW-6021

U.S. TYPE DROP FORGED FIST GRIP CLIP

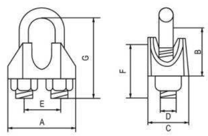


SIZE (IN)	A MM	B MM	C MM	D MM	E MM	F MM
3/16-1/4	6.35	31.75	8.63	23.88	9.65	32.51
5/16	7.75	34.04	11.18	6.92	9.65	37.34
3/8	9.65	40.39	12.70	26.92	11.18	45.97
7/16	12.70	47.75	14.22	31.75	12.70	55.63
1/2	12.70	47.75	14.22	31.75	12.70	55.63
9/16	16.00	57.90	17.53	38.10	16.00	68.33
5/8	16.00	57.90	71.53	38.10	16.00	68.33
3/4	19.00	68.33	22.35	45.97	19.05	74.68
7/8	22.35	75.44	24.64	54.10	19.05	84.07
1	25.40	78.23	30.23	57.15	19.05	94.48
1-1/8	28.70	87.38	2.53	60.45	22.35	106.43
1-1/4	31.75	90.42	34.04	63.50	22.35	107.95
1-3/8	38.10	104.90	39.62	76.20	25.40	141.22
1-1/2	38.10	104.90	39.62	76.20	25.40	141.22

WARNING Never Exceed Working Limit

TW-6022

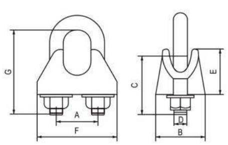
MALLEABLE WIRE ROPE CLIP – DIN741



SIZE(MM)	A MM	B MM	C MM	D MM	E MM	F MM	G MM	WEIGHT (KG)
3	21	10	10	4	9	12	16.6	0.014
5	23	10	11	5	11	13	19.65	0.015
6	26	11	12	5	13	15	23.65	0.021
8	30	15	14	6	16	19	28.85	0.041
10	34	17	18	8	19	22	35	0.068
11	36	19	19	8	20	22	37	0.072
13	40	21	23	10	24	30	46.24	0.130
14	44	22	23	10	25	30	48.24	0.135
16	50	26	26	12	29	33	52.5	0.210
19	54	30	29	12	32	38	64.5	0.280
22	61	34	33	14	37	44	72.5	0.400
26	65	37	35	14	41	45	82.5	0.440
30	74	43	37	16	48	50	95.6	0.660
34	80	50	42	16	52	55	105.6	0.850
40	88	55	45	16	58	60	125.6	1.040

TW-6023

WIRE ROPE CLIP – DIN1142

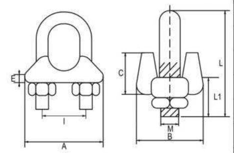


SIZE(MM)	A MM	B MM	C MM	D MM	E MM	F MM	G MM	WEIGHT (KG)
5	7	13	13	5	13	25	20	0.021
6.5	8	16	17	6	14	30	26	0.040
8	10	20	20	8	18	39	33	0.080
10	12	20	24	8	21	40	38	0.092
13	15	28	30	12	29	55	52	0.275
16	18	32	35	14	35	64	64	0.430
19	22	32	36	14	40	68	69	0.490
22	24	34	40	16	44	74	80	0.680
26	26	38	50	20	51	84	91	1.170
30	34	41	55	22	59	95	107	1.400
34	38	45	60	22	67	105	119	2.130
40	44	49	65	24	77	117	135	2.680

TW PRODUCTS

TW-6024

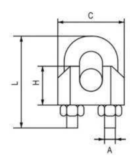
ITALIAN TYPE DROP FORGED WIRE ROPE CLIP



SIZE(MM)	A MM	B MM	C MM	E MM	I MM	L MM	L1 MM	M	WEIGHT (KG)
3-4	21	12	9	5	9	20	12	M4	0.01
5	25	18	9	5	11	25	14	M5	0.02
6	30	19	10	6	15	33	19	M6	0.04
8	33	20	10.5	6	16	35	22	M6	0.04
10	38	22	11	6	19	43	22	M8	0.08
12	43	25	13	6	23	55	30	M10	0.13
14	46	27	17	7.5	25	55	30	M10	0.16
16	53	31	18	8	28	63	32	M10	0.20
18	59	33	20	8	30	78	38	M12	0.28
20	60	34	22	9	33	78	38	M12	0.31
22	64	34	23	9.5	37	80	42	M12	0.33
24-25	70	40	24	10	40	88	46	M12	0.41
28	80	43	30	12	42	97	50	M14	0.65
32	92	45	34	14	49	115	60	M16	0.85
36-38	95	51	39	16	57	130	70	M16	1.04
45	115	58	46	16	70	158	83	M16	1.50
50	115	59	46	16	70	158	83	M16	1.52

TW-6025

WIRE ROPE CLIP, DIN741 AISI304/AISI316

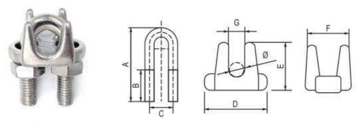


SIZE(MM)	A MM	C MM	H MM	L MM	WT/PC (KG)
2	M3	15.5	10	19	0.007
3	M4	20	10	23	0.012
4	M4	20	10	23	0.013
5	M5	23	10	29	0.017
6	M6	26	11	23.5	0.028
8	M6	29	15	35	0.037
10	M8	34	17	44	0.068
12	M10	40	20.5	55	0.124
14	M10	43	21.5	56	0.136
16	M12	49	25	67	0.211
18	M12	52	30	79	0.260
20	M12	52	30	79	0.261
22	M12	60	34	88	0.345
24	M12	67	23	86	0.354
26	M14	65	37	110	0.531
30	M16	74	43	112	0.661
32	M14	74	43	115	0.572

WARNING Never Exceed Working Limit

TW-6026

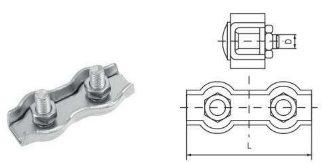
WIRE ROPE CLIP, JIS AISI304/AISI316



SIZE (MM)	A MM	B MM	C MM	D MM	E MM	F MM	G MM	Ø MM
2	19	11	7.5	14	10	13	3.5	2
3	21	11	8	14	10	14	4.5	3
4	24	13	9	19	12.5	18	5.5	4
5	25	15	13	25	13.5	20	6	5
6	32	19	14	27	17	20.5	8	6
8	42	21	18	33	19	26	10	8
10	51	28	22	45	21	33.5	12	10
12	61	35	26	51	23	37	14	12
16	76	44	33	59	33	47	18	16
22	104	58	44	71	44	61	23.5	22

TW-6027

DUPLEX WIRE ROPE CLIP STAINLESS STEEL



SIZE (MM)	L MM	D MM
2	37	M4
3	40	M4
4	43	M5
5	52	M6
6	60	M6
8	72	M8
10	84	M10

WARNING Never Exceed Working Limit

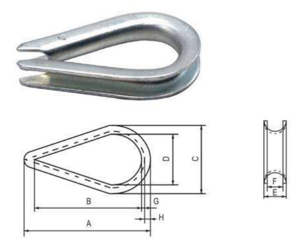
TW-6028

SIMPLEX WIRE ROPE CLIP STAINLESS STEEL

SIZE (MM)	L MM	D MM
2	15	M4
3	20	M4
4	21.5	M5
5	26	M6
6	30	M6
9	36	M8
10	42	M10

TW-6029

U.S. TYPE REGULAR DUTY THIMBLE (G-411)

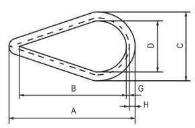


SIZE (IN.)	A MM	B MM	C MM	D MM	E MM	F MM	G MM	H MM	Weight (LBS/100pcs)
1/8	49.30	33.30	26.90	17.50	6.35	4.05	1.25	3.30	3.50
3/16	49.30	33.30	26.90	17.50	7.85	5.60	1.25	3.30	3.50
1/4	49.30	33.30	26.90	17.50	9.65	7.10	1.25	3.30	3.50
5/16	54.00	38.10	31.80	206.00	11.20	8.65	1.25	3.30	3.98
3/8	60.50	41.10	37.30	23.90	13.50	10.40	1.50	4.06	6.68
1/2	70.00	47.80	44.50	28.70	17.50	13.50	2.05	4.83	12.50
5/8	89.00	57.00	60.50	35.10	23.10	16.80	3.30	8.64	34.50
3/4	95.50	63.50	68.50	41.40	27.40	19.80	3.55	8.64	47.00
7/8	127.00	89.00	81.00	47.80	32.30	23.90	4.05	11.20	84.50
1	145.00	108.00	95.50	63.50	35.30	26.90	4.05	10.40	97.20
1 1/8-1 1/4	159.00	114.00	109.00	70.00	44.50	33.30	5.60	12.70	173.80

WARNING Never Exceed Working Limit

TW-6030

U.S. TYPE HEAVY DUTY THIMBLE (G-414)

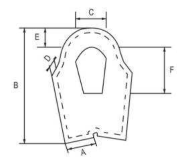


Size (IN.)	A (MM)	B (MM)	C (MM)	D (MM)	E (MM)	F (MM)	G (MM)	H (MM)	Weight (LBS/100pcs)
1/4	55.50	41.40	38.10	22.40	11.20	7.10	1.50	5.85	6.49
5/16	63.50	47.80	46.00	26.90	14.00	8.65	2.05	7.10	11.77
3/8	73.00	54.00	54.00	28.70	16.80	10.40	2.80	8.65	21.56
7/16	82.50	60.50	60.50	31.80	18.80	11.90	3.30	9.65	34.54
1/2-9/16	92.00	70.00	70.00	38.10	23.40	13.50	3.55	10.40	50.82
5/8	108.00	82.50	79.50	44.50	26.20	16.80	4.05	12.70	75.46
3/4	127.00	95.50	96.50	51.00	33.00	19.80	5.60	16.80	158.40
7/8	140.00	108.00	108.00	57.00	37.30	23.90	5.60	19.10	178.20
1	156.00	114.00	125.00	63.50	44.50	26.90	6.35	22.40	312.40
1 1/8-1 1/4	178.00	130.00	149.00	73.00	47.80	33.30	6.35	28.70	398.20
1 1/4-1 3/8	230.00	165.00	173.00	89.00	57.20	36.60	9.65	28.70	884.40
1 3/8-1 1/2	229.00	159.00	181.00	89.00	66.50	39.60	12.70	28.70	1291.40
1 -9/16	286.00	203.00	207.00	102.00	76.20	43.70	12.70	35.10	1696.20
1-3/4	310.00	229.00	216.00	114.00	77.70	46.70	12.70	33.30	1771.00
1 7/8-2 1/16	384.00	305.00	264.00	152.00	85.90	53.00	12.70	38.10	2769.80
2-3/16	435.00	356.00	302.00	178.00	98.60	60.50	16.00	41.40	3942.40

TW PRODUCTS

TW-6031

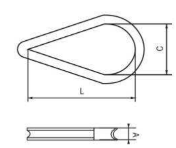
WIRE THIMBLE
PAINTED BLACK WITH GUSSET



Dimensions (MM)						Weight (LBS)	For wire MAX. (MM)
A	B	C	D	E	F		
12	84	23	4.0	8	24	0.57	10
15	95	27	5.0	10	31	0.84	12
17	100	27	5.0	10	38	0.79	14
20	112	32	5.0	12	46	1.50	16
22	125	35	5.0	15	47	1.94	18
25	150	45	6.3	16	61	2.95	22
28	157	45	7.0	16	56	4.09	24
30	170	47	7.0	18	68	3.65	25
35	190	60	7.0	22	73	5.41	32
40	212	70	9.0	36	80	7.37	36
45	228	70	7.0	27	94	8.8	38
50	255	75	7.0	35	97	11.46	42
55	268	80	7.0	31	99	13.05	48
60	270	100	7.0	37	120	14.96	52

TW-6032

THIMBLE DIN 6899A



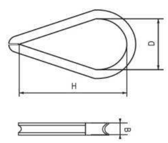
Size (MM)	A MM	L MM	C MM
2.5	3.0	21.5	10
3.0	3.5	23.5	11
3.5	4.0	26.5	12
4.0	5.0	28.5	13
5.0	6.0	30.0	14
6.0	7.0	33.0	15
7.0	8.0	35.0	16
8.0	9.0	39.0	18
9.0	10.0	43.0	20

Size (MM)	A MM	L MM	C MM
10.0	11.0	47.5	22
11.0	12.0	51.5	24
12.0	13.0	56.5	26
13.0	14.0	61.0	28
15.0	16.0	69.5	32
16.0	18.0	78.0	35
18.0	20.0	86.5	40
20.0	22.0	95.0	44
24/26	26.0	105.0	48

TW PRODUCTS

TW-6033

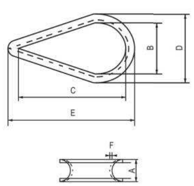
THIMBLE DIN 6899B



Size (MM)	B MM	H MM	D MM	Size (MM)	B MM	H MM	D MM
2.5~3	3.0	19.0	12	16~18	18	64	40
3.5~4	4.0	21.0	13	18~20	20	75	45
4.0~5	5.0	23.0	14	20~22	22	80	50
5.0~6	6.0	25.0	16	22~24	24	90	56
6.0~7	7.0	28.0	18	24~26	26	99	62
7.0~8	8.0	32.0	20	26~28	28	112	70
9.0~10	10.0	38.0	24	28~30	30	120	75
11.0~12	12.0	45.0	28	30~32	32	128	80
12.0~13	13.0	8.0	30	32~34	34	152	95
13.0~14	14.0	51.0	32	34~36	36	160	100
15.0~16	15.0	58.0	36	36~38	38	176	110

TW-6034

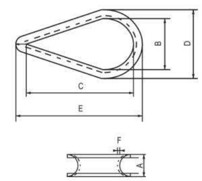
BS464 THIMBLE



Size (MM)	Dimensions (MM)					
	A	B	C	D	E	F
8	22.2	38.0	33.4	52.0	4.0	30.1
9	25.4	47.6	38.0	64.0	6.3	35.0
11	28.6	52.0	41.3	73.0	7.9	38.0
13	31.7	58.8	44.5	79.4	7.9	42.9
14	31.7	58.8	44.5	79.4	7.9	42.9
16	41.3	74.5	58.8	95.8	8.7	56.0
17	44.5	79.4	66.6	108.0	9.5	60.4
19	50.8	92.0	73.0	124.0	11.1	69.8
21	50.8	92.0	73.0	121.0	11.1	69.8
22	56.0	102.0	82.5	131.0	12.2	76.2
24	64.0	110.0	92.0	146.0	12.7	84.0
25	69.8	119.0	108.0	162.0	14.3	90.5
29	76.2	133.0	112.0	178.0	15.9	102.0
32	95.0	152.0	133.0	197.0	15.9	121.0

TW-6035

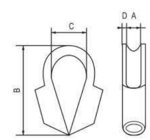
COMMERCIAL TYPE THIMBLE



Size (MM)	Dimensions (MM)					
	A	B	C	D	E	F
6	11.0	19.0	30.0	29.0	38.0	2.5
8	13.0	21.0	35.0	30.0	45.0	2.5
10	16.0	25.0	38.0	37.0	51.0	3.0
12	18.0	32.0	49.0	45.0	64.0	3.0
16	22.0	45.0	75.0	59.0	90.0	3.2
20	25.0	49.0	81.0	67.0	102.0	4.8
22	32.0	55.0	89.0	78.0	114.0	4.8
24	33.0	59.0	99.0	82.0	127.0	5.5

TW-6036

TUBE THIMBLE

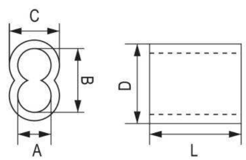


Size (MM)	A MM	B MM	C MM	D MM
10	12	90	23	4
12	15	105	27	5
14	17	115	27	4
16	19	120	32	5
18	22	140	35	5
22	25	180	45	6
25	30	195	47	7
32	35	215	60	7
38	45	260	70	7

TW PRODUCTS

TW-6037

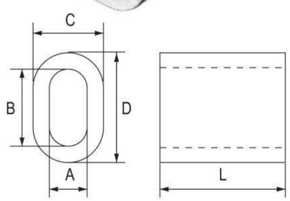
U.S. TYPE ALUMINIUM HOURGLASS SLEEVE



SIZE (IN.)	Dimensions (MM)					WEIGHT (LBS/ 1000PCS)
	A	B	C	D	L	
3/64	1.59	3.18	3.6	5.2	9.5	0.610
1/16	1.98	3.97	4.4	6.4	9.5	0.950
5/64	2.38	4.76	5.2	7.9	9.5	1.420
3/32	3.18	6.35	7.1	10.3	12.7	3.19
1/8	3.97	7.94	8.7	12.7	15.8	5.94
5/32	4.76	9.53	9.3	14.3	17.4	8.07
3/16	5.56	11.11	11.11	16.7	25.1	15.80
7/32	6.35	12.7	12.7	19	26.9	22.00
1/4	7.14	14.29	13.5	20.6	28.5	25.87
9/32	7.94	15.88	14.3	22.2	30.1	29.96
5/16	9.53	19.05	17.5	26.2	31.7	46.06
3/8	11.11	22.23	19.1	29.4	36.5	61.99
7/16	12.7	25.40	23.8	36.5	42.8	114.40
1/2	14.29	28.58	27	41.3	50.8	176.33
9/16	15.88	31.75	28.6	44.5	53.9	219.74
5/8	17.64	34.93	31.8	49.2	63.5	307.52

TW-6038

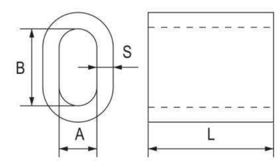
U.S. TYPE ALUMINIUM OVAL SLEEVE



SIZE (IN.)	Dimensions (MM)					WEIGHT (LBS/ 1000PCS)
	A	B	C	D	L	
1/4	7.6	15.0	13.5	21.3	25.4	23.10
5/16	7.7	19.1	16.8	26.2	30.5	42.90
3/8	11.2	21.3	19.1	29.5	35.1	53.02
7/16	12.7	25.4	23.1	35.8	43.7	110.00
1/2	15.2	29.7	26.2	41.4	49.3	165.00
9/16	18.3	35.1	31.0	48.0	56.4	220.00
5/8	19.1	38.1	35.1	53.1	63.5	320.10
3/4	21.1	42.9	38.1	60.5	73.2	520.08
7/8	24.1	47.8	42.9	66.8	76.2	669.90
1	27.7	56.4	50.0	78.5	95.3	1250.04
1-1/8	32.5	65.0	58.7	91.2	108.7	1719.96
1-1/4	35.1	70.6	63.5	98.6	112.8	2139.94
1-1/2	42.2	83.8	79.5	120.7	141.0	3899.94

TW-6039

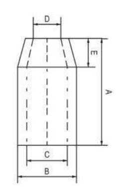
ALUMINIUM FERRULE – EN 13411-3 (DIN 3093)



SIZE (IN.)	Dimensions (MM)				WEIGHT (LBS/ 1000PCS)	L (MM) GB 6946-93
	A	B	S	L		
1	1.2	2.4	0.65	5	0.220	-
1.5	1.7	3.4	0.75	6	0.390	-
2	2.2	4.4	0.85	7	0.630	-
2.5	2.7	5.4	1.05	9	0.966	-
3	3.3	6.6	1.25	11	1.990	-
3.5	3.8	7.6	1.5	13	2.60	-
4	4.4	8.8	1.7	14	3.59	-
4.5	4.9	9.8	1.9	16	5.26	-
5	5.5	11.0	2.1	18	7.97	-
6	6.6	13.2	2.5	21	12.91	25
6.5	7.2	14.4	2.7	23	15.80	-
7	7.8	15.6	2.9	25	21.63	30
8	8.8	17.6	3.3	26	28.51	34
9	9.9	19.8	3.7	32	41.67	38
10	10.9	21.8	4.1	35	52.99	42
11	12.1	24.2	4.5	39	77.77	47
12	13.2	26.4	4.9	42	97.19	50
13	14.2	28.4	5.4	46	131.69	55
14	15.3	30.6	5.8	49	161.7	59
16	17.5	35.0	6.7	56	244	67
18	19.6	39.2	7.6	63	343	76
20	21.7	43.4	8.4	70	477	84
22	24.3	48.6	9.2	77	642	92
24	26.4	52.8	10.0	84	827	101
26	26.5	57.0	10.9	91	1058	109
28	31.0	62.0	11.7	98	1327	118
30	33.1	66.2	12.5	105	1626	126
32	35.2	70.4	13.4	112	1973	134
34	37.8	75.6	14.2	119	2369	143
36	39.8	79.6	15.0	126	2805	152
38	41.9	83.8	15.8	133	3307	160
40	44.0	88.0	16.6	140	3815	168
42	46.2	92.4	17.5	147	4453	-
44	48.4	96.8	18.3	154	5091	184
46	50.6	101.2	19.2	161	5856	-
48	52.8	105.6	20.0	168	6622	200
50	55.0	110.0	20.8	175	7506	-
52	57.2	114.4	21.6	182	8389	216
54	59.4	118.8	22.5	189	9444	-
56	61.6	123.2	23.3	196	10498	232
58	63.8	127.6	24.2	203	11717	-
60	66.0	132.0	25.0	210	12936	248

TW-6040

FLEMISH SWAGE SLEEVE (S-505)



FOR WIRE ROPE SIZE (IN.)	Dimensions (MM)					MAX. AFTER SWAGE DIMENSIONS	WEIGHT (LSB/PC)
	A	B	D	E	C		
1/4	1	0.66	0.31	0.28	0.47	0.57	0.05
5/16	1.5	0.91	0.38	0.44	0.62	0.75	0.14
3/8	1.5	0.91	0.47	0.39	0.66	0.75	0.14
7/16	2	1.22	0.53	0.65	0.85	1.01	0.33
1/2	2	1.22	0.63	0.56	0.91	1.01	0.29
9/16	2.75	1.47	0.7	0.63	1.03	1.24	0.64
5/8	2.75	1.47	0.75	0.63	1.09	1.24	0.56
3/4	3.19	1.72	0.91	0.84	1.28	1.46	0.88
7/8	3.56	2.03	1.03	1	1.53	1.68	1.31
1	4	2.28	1.16	1.13	1.72	1.93	1.95
1-1/8	4.8	2.5	1.28	1.25	1.94	2.13	2.60
1-1/4	5.19	2.78	1.44	1.41	2.16	2.32	3.55
1-3/8	5.81	3	1.56	1.56	2.38	2.52	4.23
1-1/2	6.25	3.25	1.69	1.69	2.63	2.71	4.99
1-3/4	7.25	3.84	1.94	1.97	3.13	3.1	8.05
2	8.5	4.38	2.25	2.25	3.63	3.56	11.32

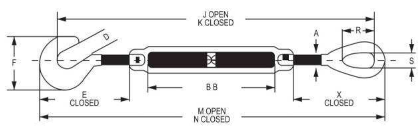
WARNING Never Exceed Working Limit

WARNING Never Exceed Working Limit

TW-6041

U.S. TYPE TURNBUCKLES

EYE AND HOOK TURNBUCKLE



Thread Dia. & Take up(in)	W. L. L. (lbs)	Weight Each (lbs)	Dimensions(MM)											
			A	D	E Closed	F	J Open	K Closed	M Open	N Closed	R	S	X Closed	BB
1/4x4	400	0.30	6.35	11.4	40.4	32.3	291	189	307	205	19.8	8.64	44.5	102
5/16x4 1/2	700	0.47	7.87	12.7	49.3	38.1	335	221	342	241	23.9	11.2	53.1	114
3/8x6	1000	0.75	9.65	14.2	58.4	45	431	279	456	303	28.4	13.5	64	152
1/2x6	1500	1.60	12.7	16.8	74.7	57.9	494	316	525	347	36.6	18.3	82	152
1/2x12	1500	2.08	12.7	16.8	74.7	57.9	799	469	830	500	36.6	18.3	82	305
5/8x6	2250	2.75	16	22.9	93.7	71.4	558	355	568	393	44.5	22.4	99.1	152
5/8x12	2250	3.50	16	22.9	93.7	71.4	844	507	882	545	44.5	22.4	99.1	305
3/4x6	3000	3.89	19.1	24.9	115	84.6	588	397	634	443	53.1	25.4	119	152
3/4x12	3000	5.43	19.1	24.9	115	84.6	892	549	939	596	53.1	25.4	119	305
3/4x18	3000	7.25	19.1	24.9	115	84.6	1197	702	1243	748	53.1	25.4	119	457
7/8x12	4000	8.10	22.4	28.7	132	96	928	579	982	633	60.5	31.8	130	305
1x12	5000	11.93	25.4	31.8	148	108	986	630	1046	691	76.2	36.6	162	305
1x18	5000	14.00	25.4	31.8	148	108	1290	782	1351	843	76.2	36.6	162	457
1x24	5000	17.25	25.4	31.8	148	108	1595	935	1656	996	76.2	36.6	162	610
1-1/4x12	5000	19.00	31.8	38.1	183	130	1057	689	1132	764	90.4	46	196	305
1-1/4x18	5000	23.00	31.8	38.1	183	130	1362	842	1437	916	90.4	46	196	157
1-1/4x24	5000	27.00	31.8	38.1	183	130	1667	994	1741	1068	90.4	46	196	610
1-1/2x12	7500	27.50	38.1	47.8	212	146	1136	755	1212	831	103	53.8	219	305
1-1/2x18	7500	31.00	38.1	47.8	212	146	1441	907	1517	983	103	53.8	219	457
1-1/2x24	7500	37.50	38.1	47.8	212	146	1745	1060	1822	1136	103	53.8	219	610

Meet or exceed strength requirements of A.S.T.M. F1145.

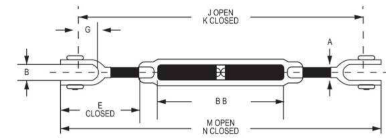
WARNING Never Exceed Working Limit

TW PRODUCTS

TW-6042

U.S. TYPE TURNBUCKLES

JAW AND JAW TURNBUCKLE



Thread Dia. & Take up(in)	W. L. L. (lbs)	Weight Each (lbs)	Dimensions(MM)								
			A	B	E Closed	G	J Open	K Closed	M Open	N Closed	BB
1/4x4	500	0.36	6.35	11.4	40.1	15.7	277	175	302	201	102
5/16x4 1/2	800	0.52	7.85	12.7	50.5	22.1	314	212	353	239	114
3/8x6	1200	0.81	9.65	13.7	54.0	22	410	258	441	289	152
1/2x6	2200	1.50	12.7	16.5	70.0	26.9	470	292	508	330	152
1/2x9	2200	1.74	12.7	16.5	70.0	26.9	622	368	660	406	229
1/2x12	2200	2.46	12.7	16.5	70.0	26.9	775	445	813	483	305
5/8x6	3500	2.72	16.0	20.1	89.0	33.3	509	325	562	378	152
5/8x9	3500	3.24	16.0	20.1	89.0	33.3	662	401	715	454	229
5/8x12	3500	3.74	16.0	20.1	89.0	33.3	814	478	867	530	305
3/4x6	5200	4.10	19.1	23.9	106	38.1	546	356	612	422	152
3/4x9	5200	5.10	19.1	23.9	106	38.1	699	432	765	498	229
3/4x12	5200	5.65	19.1	23.9	106	38.1	851	508	917	574	305
3/4x18	5200	7.00	19.1	23.9	106	38.1	1156	660	1222	726	457
7/8x12	7200	8.17	22.4	28.7	123	44.5	892	543	967	618	305
7/8x18	7200	9.96	22.4	28.7	123	44.5	1197	675	1272	770	457
1x6	10000	8.56	25.4	34.0	140	52.5	628	425	713	510	152
1x12	10000	12.00	25.4	34.0	140	52.5	933	577	1018	662	305
1x18	10000	14.00	25.4	34.0	140	52.5	1237	729	1322	814	457
1x24	10000	17.00	25.4	34.0	140	52.5	1542	882	1627	967	610
1-1/4x12	15200	21.50	31.8	44.5	183	71.5	1012	644	1119	750	305
1-1/4x18	15200	25.3	31.8	44.5	183	71.5	1317	796	1423	903	457
1-1/4x24	15200	28.0	31.8	44.5	183	71.5	1622	948	1728	1055	610
1-1/2x12	21400	30.5	38.1	52.3	200	71.5	1054	673	1181	800	305
1-1/2x18	21400	36.8	38.1	52.3	200	71.5	1359	826	1486	953	457
1-1/2x24	21400	40.7	38.1	52.3	200	71.5	1664	978	1791	1105	610
1-3/4x18	28000	55.0	44.5	66.0	239	86.0	1356	899	1503	1046	457
1-3/4x24	28000	63.4	44.5	66.0	239	86.0	1661	1051	1808	1198	610
2x24	37000	94.3	51.0	66.5	301	93.5	1766	1157	1949	1339	610
2-1/2x24	60000	165	63.5	76.5	344	113	1854	1244	2087	1478	610
2-3/4x24	75000	198	70.0	92.2	387	106	1899	1289	2172	1562	610

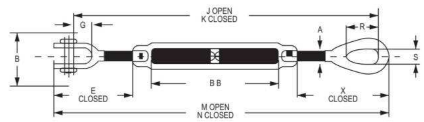
Meet or exceed strength requirements of A.S.T.M. F1145.

WARNING Never Exceed Working Limit

TW-6043

U.S. TYPE TURNBUCKLES

JAW AND EYE TURNBUCKLE



Thread Dia. & Take up(in)	W. L. L. (lbs)	Weight Each (lbs)	Dimensions(MM)											
			A	B	E Closed	G	J Open	K Closed	M Open	N Closed	R	S	X Closed	BB
1/4x4	500	0.32	6.35	10.4	40.1	15.7	288	186	52.5	204	19.8	8.6	44.4	102
5/16x4 1/2	800	0.47	7.85	11.9	50.3	22.0	348	221	355	241	23.87	11.1	53.08	114
3/8x6	1200	0.76	9.65	12.7	53.8	22.0	426	274	451	298	28.4	13.4	64	152
1/2x6	2200	1.53	12.7	16.0	69.8	26.9	464	312	494	342	36.6	18.2	82	152
1/2x9	2200	1.71	12.7	16.0	69.8	26.9	617	388	647	418	36.6	18.2	82	229
1/2x12	2200	2.06	12.7	16.0	69.8	26.9	769	464	799	494	36.6	18.2	82	305
5/8x6	3500	2.35	16.0	19.1	89.0	33.3	501	348	540	388	44.5	22.3	99	152
5/8x9	3500	3.06	16.0	19.1	89.0	33.3	653	425	692	464	44.5	22.3	99	229
5/8x12	3500	3.78	16.0	19.1	89.0	33.3	806	501	845	540	44.5	22.3	99	305
3/4x6	5200	4.00	19.1	23.9	106	38.1	538	385	58.69	434	53	25.4	119	152
3/4x9	5200	4.75	19.1	23.9	106	38.1	690	462	73.94	510	53	25.4	119	229
3/4x12	5200	5.36	19.1	23.9	106	38.1	843	538	89.17	586	53	25.4	119	305
3/4x18	5200	7.00	19.1	23.9	106	38.1	1147	690	1196	739	53	25.4	119	457
7/8x12	7200	8.00	22.4	28.7	123	44.5	872	567	92.88	624	60.4	31.8	12.9	305
7/8x18	7200	9.75	22.4	28.7	123	44.5	1177	719	1233	776	60.4	31.8	12.9	457
1x6	10000	8.92	25.4	30.2	140	52.3	618	465	683	530	76	36.5	161.5	152
1x12	10000	11.20	25.4	30.2	140	52.3	923	618	987	683	76	36.5	161.5	305
1x18	10000	13.30	25.4	30.2	140	52.3	1227	770	129.26	835	76	36.5	161.5	457
1x24	10000	17.00	25.4	30.2	140	52.3	1532	923	1597	987	76	36.5	161.5	610
1-1/4x12	15200	20.00	31.8	44.5	183	71.5	986	681	1068	763	90.4	45.9	196	305
1-1/4x18	15200	24.2	31.8	44.5	183	71.5	1290	833	1372	915	90.4	45.9	196	457
1-1/4x24	15200	28.5	31.8	44.5	183	71.5	1595	986	1677	1068	90.4	45.9	196	610
1-1/2x12	21400	29.0	38.1	52.3	200	71.5	1028	723	1123	819	103	53.8	218	305
1-1/2x18	21400	35.0	38.1	52.3	200	71.5	1333	876	1428	971	103	53.8	218	457
1-1/2x24	21400	39.2	38.1	52.3	200	71.5	1638	1028	1733	1123	103	53.8	218	610
1-3/4x18	28000	53.8	44.5	60.5	239	86.0	1406	949	1518	1061	117	60.4	254	457
1-3/4x24	28000	60.7	44.5	60.5	239	86.0	1711	1101	1823	1213	117	60.4	254	610
2x24	37000	89.0	51.0	63.5	301	93.5	1844	1234	1979	1370	146	68.3	332	610
2-1/2x24	60000	150	63.5	73.2	344	106	1925	1315	2092	1483	165	79	350	610
2-3/4x24	75000	183	70.0	88.9	387	113	1978	1368	2171	1562	178	82.6	386	610

Meet or exceed strength requirements of A.S.T.M. F1145.

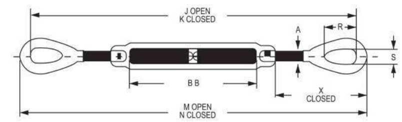
WARNING Never Exceed Working Limit

TW PRODUCTS

TW-6044

U.S. TYPE TURNBUCKLES

EYE AND EYE TURNBUCKLE



Thread Dia. & Take up(in)	W. L. L. (lbs)	Weight Each (lbs)	Dimensions(MM)								
			A	J Open	K Closed	M Open	N Closed	R	S	X Closed	BB
1/4x4	500	0.30	6.35	299.7	198.1	311	209	19.8	8.6	44.4	102
5/16x4 1/2	800	0.47	7.87	344.4	230	358	244	23.87	11.1	53.08	114
3/8x6	1200	0.76	9.65	443.7	291	461	308	28.4	13.4	64	152
1/2x6	2200	1.60	12.7	484.6	332	506	354	36.6	18.2	82	152
1/2x9	2200	1.83	12.7	637.0	408	659	431	36.6	18.2	82	229
1/2x12	2200	2.08	12.7	789.0	484	811	506	36.6	18.2	82	305
5/8x6	3500	2.75	16.0	525.2	372	551	398	44.5	22.3	99	152
5/8x9	3500	3.13	16.0	677.6	449	703	474	44.5	22.3	99	229
5/8x12	3500	3.50	16.0	830.0	525	855	551	44.5	22.3	99	305
3/4x6	5200	3.89	19.1	568.4	416	599	447	53	25.4	119	152
3/4x9	5200	4.61	19.1	720.8	492	752	523	53	25.4	119	229
3/4x12	5200	5.43	19.1	873.2	568	904	599	53	25.4	119	305
3/4x18	5200	7.25	19.1	1178.1	720	1209	752	53	25.4	119	457
7/8x12	7200	8.10	22.4	897.1	592	935	616	60.4	31.8	12.9	305
7/8x18	7200	9.95	22.4	1201.9	745	1240	782	60.4	31.8	12.9	457
1x6	10000	9.33	25.4	659.6	507	704	551	76	36.5	161.5	152
1x12	10000	11.93	25.4	964.0	659	1015	704	76	36.5	161.5	305
1x18	10000	14.00	25.4	1269.0	812	1313	856	76	36.5	161.5	457
1x24	10000	17.25	25.4	1574.0	964	1618	1008	76	36.5	161.5	610
1-1/4x12	15200	19.00	31.8	1023.0	719	1081	776	90.4	45.9	196	305
1-1/4x18	15200	23.0	31.8	1328.6	871	1385	928	90.4	45.9	196	457
1-1/4x24	15200	27.0	31.8	1633.0	1023	1690	1081	90.4	45.9	196	610
1-1/2x12	21400	27.5	38.1	1079.5	774	1157	838	103	53.8	218	305
1-1/2x18	21400	31.0	38.1	1384.3	927	1447	990	103	53.8	218	457
1-1/2x24	21400	37.5	38.1	1689.0	1079	1753	1143	103	53.8	218	610
1-3/4x18	28000	52.5	44.5	1457.0	1000	1533	1076	117	60.4	254	457
1-3/4x24	28000	58.0	44.5	1762.0	1152	1838	1228	117	60.4	254	610
2x24	37000	85.3	51.0	1922.5	1313	2011	1402	146	68.3	332	610
2-1/2x24	60000	144	63.5	1996.9	1387	2098	1489	165	79	350	610
2-3/4x24	75000	194	70.0	2057.4	1447	2171	1562	178	82.6	386	610

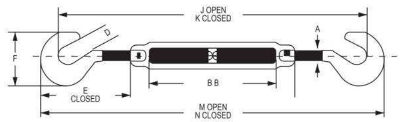
Meet or exceed strength requirements of A.S.T.M. F1145.

WARNING Never Exceed Working Limit

TW-6045

U.S. TYPE TURNBUCKLES

HOOK AND HOOK TURNBUCKLE



Thread Dia. & Take up(in)	W. L. L. (lbs)	Weight Each (lbs)	Dimensions(MM)								
			A	D	E Closed	F	J Open	K Closed	M Open	N Closed	BB
1/4x4	400	0.30	6.35	11.4	40.3	32.2	282	181	303	201	102
5/16x4 1/2	700	0.47	7.87	12.7	49.2	38.1	325	211	350	236	114
3/8x6	1000	0.75	9.65	14.2	58.4	45	419	267	451	297	152
1/2x6	1500	1.60	12.7	16.7	74.7	57.9	452	300	492	339	152
1/2x9	1500	1.83	12.7	16.7	74.7	57.9	605	376	645	416	229
1/2x12	1500	2.08	12.7	16.7	74.7	57.9	757	453	797	492	305
5/8x6	2250	2.75	16.0	21.3	93.7	71.4	489	337	539	387	152
5/8x9	2250	3.13	16.0	21.3	93.7	71.4	641	413	692	463	229
5/8x12	2250	3.50	16.0	21.3	93.7	71.4	793	489	845	539	305
3/4x6	3000	3.89	19.1	24.8	115	84.6	530	378	591	439	152
3/4x9	3000	4.61	19.1	24.8	115	84.6	682	454	743	515	229
3/4x12	3000	5.43	19.1	24.8	115	84.6	835	530	896	591	305
3/4x18	3000	7.25	19.1	24.8	115	84.6	1139	683	1200	743	457
7/8x12	4000	8.10	22.4	28.7	131	96	869	565	939	635	305
7/8x18	4000	9.95	22.4	28.7	131	96	1174	718	1244	787	457
1x6	5000	9.33	25.4	31.8	148	108	600	448	678	526	152
1x12	5000	11.93	25.4	31.8	148	108	905	600	983	678	305
1x18	5000	14.00	25.4	31.8	148	108	1209	753	1287	830	457
1x24	5000	17.25	25.4	31.8	148	108	1514	905	1592	983	610
1-1/4x12	5000	19.00	31.8	38.1	183	130	963	658	1055	751	305
1-1/4x18	5000	23.0	31.8	38.1	183	130	1268	811	1360	903	457
1-1/4x24	5000	27.0	31.8	38.1	183	130	1573	963	1665	1056	610
1-1/2x12	7500	27.0	38.1	47.8	211	146	1039	735	1128	823	305
1-1/2x18	7500	31.0	38.1	47.8	211	146	1345	887	1433	976	457
1-1/2x24	7500	37.5	38.1	47.8	211	146	1649	1039	1738	1128	610

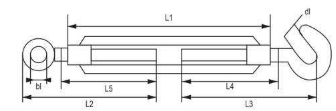
Meet or exceed strength requirements of A.S.T.M. F1145.

WARNING Never Exceed Working Limit

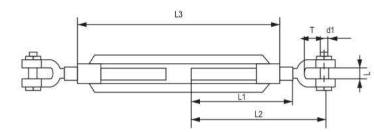
TW-6046

EUROPEAN TYPE TURNBUCKLES

DIN 1480 – DROP FORGED TURNBUCKLES



Thread (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	bl (mm)	dl (mm)	Weight(kg) Per 100 pcs
M6	110	74	77	50	50	8	10	9
M8	110	80	98	60	52	10	11	15
M10	125	95	116.5	73	59	12.5	15	26
M12	125	107	146	90	66	16	17	40
M16	170	146	165	100	85	16	22	95
M20	200	170	180	105	100	18	24	164
M22	220	203	215	120	123	23	30	231
M24	255	213	225	135	134	30	33	285
M30	255	255	225	140	150	30	37	411
M36	295	260	300	170	150	32	39	745

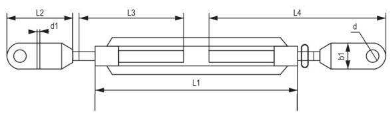


Thread (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L (mm)	T (mm)	d1 (mm)	Weight(kg) Per 100 pcs
M8	68	116	110	9	28.75	8.5	14
M10	82	130	125	10.7	29.25	8.5	26
M12	90	150	125	15.5	44.75	10.5	40
M16	102	172	170	20	45.25	12.5	64
M20	115	185	200	23.5	59.5	17	130
M24	125	215	255	29	62.75	20.5	228
M30	150	255	255	34	89.5	25	402

WARNING Never Exceed Working Limit

TW-6047

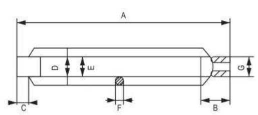
TURNBUCKLE DIN 1480 WITH PLANE ENDS



Thread (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	b1 (mm)	d (mm)	d1 (mm)	Weight(kg) Per 100 pcs
M8	110	50	75	125	20	9	4	19
M10	110	60	90	150	25	10.5	4	30
M12	125	74	91	165	30	13	5	48
M16	125	135	105	24	40	14	8	114
M20	200	135	105	240	44	17	9	184
M24	255	145	160	305	70	22	10	310

TW-6048

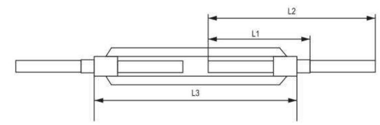
BODY ONLY DROP FORGED TURNBUCKLE - DIN 1480



Thread (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	Adjustable	Weight(kg) Per 100 pcs
M6	110	12	6	19	9	6	12	80	6
M8	110	15	8	23	11	8	15	75	9
M10	125	18	9	30	14	9	18	85	15
M12	125	21	11	34	16	11	21	80	20
M14	140	24	9	38	18	10	25	110	30
M16	170	27	14	42	20	14	27	110	44
M20	200	34	17	52	24	17	34	130	44
M22	220	37	15	57	26	16	37	170	105
M24	255	39	20	60	28	20	39	170	120
M27	255	39	20	60	28	20	39	160	180
M30	255	«5	23	74	34	23	45	160	190
M36	295	55	28	86	40	28	55	180	320
M42	330	63	32	104	50	32	63	200	450
M48	355	78	39	135	65	40	80	195	800
M56	355	78	39	135	65	40	80	195	910

TW-6049

DROP FORGED TURNBUCKLE STUD ENDS - DIN 1480



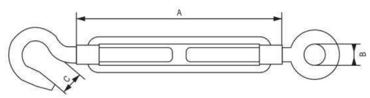
Thread (mm)	L3 (mm)	L2 (mm)	L1 (mm)	Weight(kg) Per 100 pcs
M6	110	120	60	10
M8	110	120	65	16
M10	125	150	75	30
M12	125	150	75	40
M14	140	165	90	62
M16	170	200	100	96
M20	200	220	120	174
M22	220	220	120	213
M24	255	260	150	274
M27	255	265	160	388
M30	255	260	160	420
M36	295	300	180	720
M42	330	350	200	1070
M48	355	380	220	1790
M56	355	380	230	2000

WARNING Never Exceed Working Limit

TW-6050

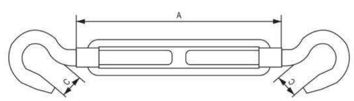
EUROPEAN TYPE STAINLESS STEEL TURNBUCKLES

HOOK AND EYE TURNBUCKLE



SIZE	A MM	B MM	C MM	W.L.L. (kgs)	Weight (kgs)
M4	58	8	7	25	0.022
M5	70	9	8	40	0.035
M6	90	10	9	100	0.063
M8	120	14	13	200	0.1235
M10	150	16	15	300	0.242
M12	200	18	15	500	0.467
M16	250	21	20	800	0.984
M20	300	25	22	1200	1.989

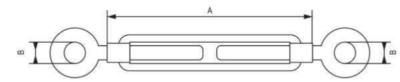
HOOK AND HOOK TURNBUCKLE



SIZE	A MM	C MM	W.L.L. (kgs)	Weight (kgs)
M4	58	7	25	0.022
M5	70	8	40	0.035
M6	90	9	100	0.063
M8	120	13	200	0.135
M10	150	15	300	0.242
M12	200	15	500	0.467
M16	250	20	800	0.984
M20	300	22	1200	1.989

TW PRODUCTS

EYE AND EYE TURNBUCKLE



SIZE	A MM	B MM	W.L.L. (kgs)	Weight (kgs)
M4	58	8	25	0.022
M5	70	9	40	0.035
M6	90	10	100	0.063
M8	120	14	200	0.135
M10	150	16	300	0.242
M12	200	18	500	0.467
M16	250	21	800	0.984
M20	300	25	1200	1.989

TW-6051

LIGHT TYPE CHAMPION SNATCH BLOCK WITH HOOK

Size (in)	W. L. L. (ton)	Diam Of Rope (in)	Net Weight (kg)
3	2	3/8	2.25
4 1/2	4	1/2	5.6
6	8	3/4	12.4
8	8	3/4	16.5
10	8	3/4	21.5
12	8	3/4	26
14	8	3/4	36
16	15	7/8	56
18	15	1	66

TW-6052

LIGHT TYPE CHAMPION SNATCH BLOCK WITH SHACKLE

Size (in)	W. L. L. (ton)	Diam Of Rope (in)	Net Weight (kg)
3	2	3/8	2.25
4 1/2	4	1/2	5.8
6	8	3/4	12.5
8	8	3/4	16.5
10	8	3/4	20
12	8	3/4	25
14	8	3/4	36.5
16	15	7/8	60
18	15	1	72

WARNING Never Exceed Working Limit

TW-6053

LIGHT TYPE CHAMPION SNATCH BLOCK DOUBLE SHEAVE WITH HOOK

Size (in)	W. L. L. (ton)	Diam Of Rope (in)	Net Weight (kg)
4 1/2	4	1/2	9.2
6	12	3/4	21
8	12	3/4	28
10	12	3/4	36.5
12	12	3/4	50
14	12	3/4	56
16	15	7/8	101
18	15	1	106.5

TW-6054

LIGHT TYPE CHAMPION SNATCH BLOCK TAIL BOARD

Size (in)	W. L. L. (ton)	Diam Of Rope (in)	Net Weight (kg)
3	2	3/8	1.4
4 1/2	4	1/2	3.8
6	8	3/4	7
8	8	3/4	11
10	8	3/4	16
12	8	3/4	58
14	8	3/4	32
16	15	7/8	48
18	15	1	62

WARNING Never Exceed Working Limit

TW-6055

ALLOY TYPE CHAMPION SNATCH BLOCK WITH HOOK

Size (in)	W. L. L. (ton)	Diam Of Rope (in)	Net Weight (kg)
6	12	3/4	20
8	12	3/4-7/8	26
10	12	3/4-7/8	30

TW-6056

ALLOY TYPE CHAMPION SNATCH BLOCK WITH SHACKLE

Size (in)	W. L. L. (ton)	Diam Of Rope (in)	Net Weight (kg)
6	12	3/4	20
8	12	3/4-7/8	29
10	12	3/4-7/8	33

WARNING Never Exceed Working Limit

TW-6057

ALLOY TYPE CHAMPION SNATCH BLOCK TAIL BOARD

Size (in)	W. L. L. (ton)	Diam Of Rope (in)	Net Weight (kg)
6	12	3/4	11.5
8	12	3/4-7/8	17
10	12	3/4-7/8	22

TW-6058

CHAMPION SNATCH BLOCK WITH HOOK

Size (in)	W. L. L. (ton)	Diam Of Rope (in)	Net Weight (kg)
6	12	7/8	19
8	15	7/8	25
10	15	7/8	33

WARNING Never Exceed Working Limit

TW-6059

CHAMPION SNATCH BLOCK WITH SHACKLE

Size (in)	W. L. L. (ton)	Diam Of Rope (in)	Net Weight (kg)
6	12	7/8	21
8	15	7/8	28
10	15	7/8	35

TW-6060

CHAMPION SNATCH BLOCK TAIL BOARD

Size (in)	W. L. L. (ton)	Diam Of Rope (in)	Net Weight (kg)
6	12	7/8	13.2
8	15	7/8	17
10	15	7/8	20.5

WARNING Never Exceed Working Limit

TW-6061

SUPER CHAMPION SNATCH BLOCK WITH HOOK

Size (in)	W. L. L. (ton)	Diam Of Rope (in)	Net Weight (kg)
8	20	1 1/8	46
10	20	1 1/8	52
12	20	1 1/8	56
14	20	1 1/8	60
16	20	1 1/8	102
18	25	1 1/8	131
20	30	1 1/8	187
24	40	1 1/8	286

TW-6062

SUPER CHAMPION SNATCH BLOCK WITH SHACKLE

Size (in)	W. L. L. (ton)	Diam Of Rope (in)	Net Weight (kg)
8	20	1 1/8	54
10	20	1 1/8	58
12	20	1 1/8	64
14	20	1 1/8	68
16	20	1 1/8	107
18	25	1 1/8	184
20	30	1 1/8	209
24	40	1 1/8	283

WARNING Never Exceed Working Limit

TW-6063

SUPER CHAMPION SNATCH BLOCK TAIL BOARD

Size (in)	W. L. L. (ton)	Diam Of Rope (in)	Net Weight (kg)
8	20	1 1/8	29
10	20	1 1/8	38
12	20	1 1/8	42
14	20	1 1/8	56
16	20	1 1/8	89
18	25	1 1/8	116
20	30	1 1/8	148
24	40	1 1/8	223

TW-6064

RED (HDG) SNATCH BLOCK WITH SHACKLE

Size (in)	W. L. L. (ton)	Diam Of Rope (in)	Net Weight (kg)
3	1.5	4---6	1.55
4	3	6---9	2.55
5	4.5	8---12	4.3
6	6	10---14	6.6
8	8	14---18	13.5

WARNING Never Exceed Working Limit

TW-6065

RED (HDG) SNATCH BLOCK WITH SWIVEL EYE

Size (in)	W. L. L. (ton)	Diam Of Rope (in)	Net Weight (kg)
3	1.5	4---6	1.85
4	3	6---9	2.9
5	4.5	8---12	4.3
6	6	10---14	7.4
8	8	14---18	18.3
10	8	20---24	25

TW-6066

YARDING BLOCK WITH OVAL EYE WITH DOUBLE SHEAVE

Size (in)	W. L. L. (ton)	Diam Of Rope (in)	Net Weight (kg)
3	0.5	6	1.55
4	1	9	3.6
5	1.5	12	6.6
6	2	14	8.5
8	4	16	16.5
10	5	18	40

WARNING Never Exceed Working Limit

TW BLACK BINDER SERIES

TW-6067

RATCHET LOAD BINDER, JAW – JAW

Forged Carbon Steel.
Black powder painted and yellow plated for jaws.
Color is customizable.

BARREL LENGTH (IN.)	HANDLE LENGTH (IN.)	TAKE UP (IN.)	SCREW DIA. (IN.)	W.L.L. (LBS)	PROOF LOAD (LBS)	WEIGHT (LBS)
10	15.5	8	1	13000	26000	13.4

TW-6068

RATCHET LOAD BINDER, JAW – JAW

Forged Carbon Steel.
Black powder painted.
Color is customizable.

BARREL LENGTH (IN.)	HANDLE LENGTH (IN.)	TAKE UP (IN.)	SCREW DIA. (IN.)	W.L.L. (LBS)	PROOF LOAD (LBS)	WEIGHT (LBS)
12	24	10	1-3/8	28000	56000	34.2
24	24	22	1-3/8	28000	56000	40

WARNING Never Exceed Working Limit

TW-6069

RATCHET LOAD BINDER WITH HOOKS

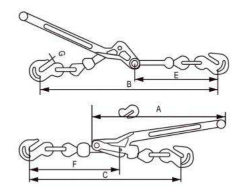
Forged Carbon Steel.
Black powder painted.
Color is customizable.

CHAIN SIZE (IN.)	TAKE UP (IN.)	BARREL LENGTH (IN.)	HANDLE LENGTH (IN.)	SCREW DIAMETER (IN.)	W.L.L. (LBS)	Proof Load Limit (LBS)	WEIGHT (LBS)
3/8"-5/16"	6	8	15	7/8	7100	14200	8.8
3/8"-5/16"	8	10	15.5	1	7300	14600	12.2
1/2"-3/8"	8	10	15.5	1	12000	24000	14.2
5/8"-1/2"	8	10	15.5	1	13000	26000	16

TW CHARTREUSE LOAD BINDERS

TW-6070

DROP FORGED LEVER TYPE LOAD BINDER



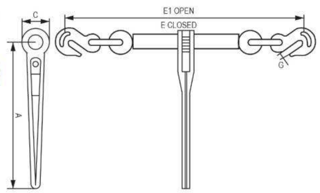
Forged Carbon Steel.
Color is customizable.

SIZE (IN.)	Dimensions(MM)						W.L.L. (lbs)	M.B.S (lbs)	WEIGHT (LBS)
	A	B	C	E	F	G			
1/4	300.00	445.00	375.00	215.00	209.00	9.50	2596	9086	3.87
5/16-3/8	413.00	570.00	460.00	265.00	260.00	12.70	5390	18986	8.12
3/8-1/2	475.70	695.00	565.00	325.00	324.00	16.80	9196	33000	12.5
1/2-5/8	553.00	848.00	680.00	395.00	391.00	18.60	12980	45980	20.9

WARNING Never Exceed Working Limit

TW-6071

DROP FORGED RATCHET TYPE LOAD BINDER



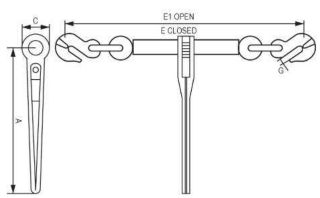
Forged Carbon Steel

Fully rated for Grade70 transport

SIZE (IN.)	Dimensions(MM)					W.L.L. (LBS)	M.B.S (LBS)	WEIGHT (LBS)
	A	C	E CLOSED	E1 OPEN	G			
1/4	207.00	42.00	425.00	514.00	9.50	2596	9086	4.10
5/16-3/8	355.50	64.00	601.50	782.50	12.70	6600	26400	10.95
3/8-1/2	355.50	64.00	633.50	814.50	16.80	9196	33000	11.66
1/2-5/8	355.50	64.00	655.00	749.00	18.60	12980	45980	13.94

TW-6072

G80 RATCHET BINDER



According to EN12195-3 standard

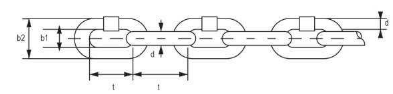
Handle: forged

SIZE (MM)	Dimensions(MM)					LC (KN)	BF (KN)	WEIGHT (KG)
	A	C	E CLOSED	E1 OPEN	G			
6	207.00	42.00	423.00	511.00	8.00	22.00	44.00	1.70
8	280.80	57.50	335.00	500.00	10.90	40.00	80.40	4.30
10	297.50	64.00	365.00	520.00	13.20	63.00	126.00	5.10
13	354.50	66.00	370.00	515.00	16.60	100.00	212.00	6.76

TW PRODUCTS

TW-5001

G100 LIFTING CHAIN ACCORDING TO EN 818-8: 2006



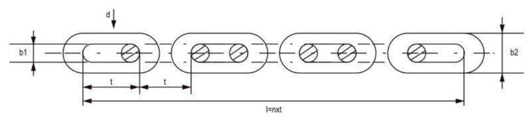
Nominal diameter (mm)	Tolerance		Pitch		Width		Weight	Working load	Proof load	Breaking load
d	min.	max.	mm	tolerance	b1 min.	b2 max.	Kg/m	t	KN	KN min.
4	-0.16	0.21	12	0.4	5.2	14.8	0.36	0.63	15.7	25.1
5	-0.2	0.27	15	0.5	6.5	18.5	0.56	1	24.5	39.3
6	-0.24	0.32	18	0.6	7.8	22.2	0.8	1.4	35.3	56.5
7	-0.28	0.38	21	0.6	9.1	25.9	1.1	1.9	48.1	77
8	-0.32	0.45	24	0.7	10.4	29.6	1.5	2.5	62.8	101
10	-0.4	0.54	30	0.9	13	37	2.3	4	98.2	157
13	-0.52	0.69	39	1.2	16.9	48.1	3.9	6.7	166	265
16	-0.64	0.86	48	1.4	20.8	59.2	5.8	10	251	402
18	-0.9	0.97	54	1.6	23.4	66.6	7.4	12.5	318	509
19	-1	1.03	57	1.7	24.7	70.3	8.1	14	354	567
20	-1	1.08	60	1.8	26	74	9	16	393	628
22	-1.1	1.19	66	2	28.6	81.4	11	19	475	760
23	-1.2	1.24	69	2.1	29.9	85.1	12	20	519	831
26	-1.3	1.38	78	2.3	33.8	96.2	15	26.5	664	1060

Meets or exceeds all existing OSHA, Government, NACM and ASTM specification requirements.

WARNING Never Exceed Working Limit

TW-5002

G80 ALLOY CHAIN
EN818-2-8



Nominal diameter (mm)		Weld diameter	Pitch			Width		Weight	Working load	Proof load	Breaking load	Deflection bending
tolerance		d max.	t	t max.	t min.	b1 min.	b2 max.	Kg/m	Kg	KN min.	KN min.	min.
4	±0.16	4.4	12	12.4	11.6	5.2	14.8	0.35	500	12.6	20.1	3.2
5	±0.2	5.5	15	15.5	14.6	6.5	18.5	0.5	800	19.6	31.4	4
6	±0.24	6.6	18	18.5	17.5	7.8	22.2	0.8	1120	28.3	45.2	4.8
7	±0.28	7.7	21	21.6	20.4	9.1	25.9	1.1	1500	38.5	61.6	5.6
8	±0.32	8.8	24	24.7	23.3	10.4	29.6	1.4	2000	50.3	80.4	6.4
10	±0.4	11	30	30.9	29.1	13	37	2.2	3150	78.5	126	8
13	±0.52	14.3	39	40.2	37.8	16.9	48.1	3.8	5300	133	212	10
16	±0.64	17.6	48	49.4	46.6	20.8	59.2	5.7	8000	201	322	13
18	±0.9	19.8	54	55.6	52.4	23.4	66.6	7.3	10000	254	407	14
19	±1	20.9	57	58.7	55.3	24.7	70.3	8.1	11200	284	454	15
20	±1	22	60	61.8	58.2	26	74	9	12500	314	503	16
22	±1.1	24	66	68	64	28.6	81.4	10.9	15000	380	608	18
23	±1.2	25.3	69	71.1	66.9	29.9	85.1	12	16000	415	665	18
25	±1.3	27.5	75	77.3	72.8	32.5	92.5	14.1	20000	491	785	20
26	±1.3	28.6	78	80.3	75.7	33.8	96.2	15.2	21200	531	849	21

WARNING Never Exceed Working Limit

TW PRODUCTS

TW-5003

III TRANSPORT CHAIN NACM96 (G70)

NOMINAL SIZE		MATERIAL DIAMETER		WORKING LOAD LIMIT (MAX)		PROOF TEST (MIN)		BREAKING FORCE MIN		INSIDE LENGTH (MAX)		INSIDE WIDTH (MIN)	
MM	IN	MM	IN	KG	LBS	KN	LBS	KN	LBS	MM	IN	MM	IN
7.0	1/4	7.0	0.281	1430	3150	28.0	6300	56	12600	31.8	1.24	9.8	0.38
8.7	5/16	8.7	0.343	2130	4700	41.8	9400	83.6	18800	32.8	1.29	11.2	0.44
10.0	3/8	10.3	0.406	2990	6600	58.7	13200	117.4	26400	35.0	1.38	14.0	0.55
13.0	1/2	13.5	0.531	5130	11300	100.4	22600	200.8	45200	45.5	1.79	18.2	0.72
16.0	5/8	16.0	0.63	7170	15800	140.4	31600	280.8	63200	56.0	2.20	20.0	0.79

III TRANSPORT CHAIN ASTM80 (G70)

TRADE SIZE	MATERIAL DIAMETER		WORKING LOAD LIMIT		PROOF TEST		BREAKING FORCE MINIMUM		MAX LENGTH PER 100 LINKS		MAX WEIGHT PER 100 FEET	
	IN	MM	LBS	KG	LBS	KN	LBS	KN	IN	M	LBS	KG
1/4	0.281	7.1	3150	1430	6300	28.0	12600	56.1	98	2.49	84	38
5/16	0.343	8.7	4700	2130	9400	41.8	18800	83.6	110	2.79	120	54
3/8	0.406	10.3	6600	3000	13200	58.7	26400	117.4	134	3.4	176	80
1/2	0.531	13.5	11300	5130	22600	100.5	45200	201.1	160	4.06	300	136

WARNING Never Exceed Working Limit

TW-5004

NACM90 STANDARD LINK CHAIN
I PROOF COIL CHAIN NACM90 (G30)

NOMINAL SIZE		MATERIAL DIAMETER		WORKING LOAD LIMIT (MAX)		PROOF TEST (MIN)		BREAKING FORCE MIN		INSIDE LENGTH (MAX)		INSIDE WIDTH (MIN)	
MM	IN	MM	IN	KG	LBS	KN	LBS	KN	LBS	MM	IN	MM	IN
4.0	1/8	4.0	0.156	170	375	3.6	800	7.1	1600	23.9	0.94	6.4	0.25
5.5	3/16	5.5	0.217	365	800	7.2	1600	14.3	3200	24.8	0.98	7.7	0.3
7.0	1/4	7.0	0.276	580	1300	11.6	2600	23.1	5200	31.5	1.24	9.8	0.38
8.0	5/16	8.0	0.315	860	1900	15.1	3400	30.2	6800	32.8	1.29	11.2	0.44
10.0	3/8	10.0	0.394	1200	2650	23.6	5300	47.1	10600	35.0	1.38	14.0	0.55
13.0	1/2	13.0	0.512	2030	4500	39.8	8950	79.6	17900	45.5	1.79	18.2	0.72
16.0	5/8	16.0	0.63	3130	6900	60.3	13600	120.6	27200	56.0	2.20	20.0	0.79
20.0	3/4	20.0	0.787	4800	10600	94.3	21200	188.5	42400	70.0	2.76	25.0	0.98
22.0	7/8	22.0	0.866	5810	12800	114.1	25600	228.1	51200	77.0	3.06	27.5	1.08
25	1	26.0	1.02	8140	17900	159.1	35800	318.2	71600	90.9	3.58	31.7	1.25

NACM90 STANDARD LINK CHAIN
II HIGH TEST CHAIN NACM90 (G43)

NOMINAL SIZE		MATERIAL DIAMETER		WORKING LOAD LIMIT (MAX)		PROOF TEST (MIN)		BREAKING FORCE MIN		INSIDE LENGTH (MAX)		INSIDE WIDTH (MIN)	
MM	IN	MM	IN	KG	LBS	KN	LBS	KN	LBS	MM	IN	MM	IN
7.0	1/4	7.0	0.276	1180	2600	16.6	3750	33.1	7500	31.5	1.24	9.8	0.38
8.0	5/16	8.0	0.315	1770	3900	21.6	4900	43.2	9700	32.8	1.29	11.2	0.44
10.0	3/8	10.0	0.394	2450	5400	33.8	7600	67.6	15200	35.0	1.38	14.1	0.55
13.0	1/2	13.0	0.512	4170	9200	57.1	12900	114.2	25700	45.5	1.79	18.2	0.72
16.0	5/8	16.0	0.63	5220	11500	86.5	19500	172.9	38900	56.0	2.20	20.0	0.79

WARNING Never Exceed Working Limit

ASTM80 STANDARD LINK CHAIN
III PROOF COIL CHAIN ASTM80 (G30)

TRADE SIZE	MATERIAL DIAMETER		WORKING LOAD LIMIT		PROOF TEST		BREAKING FORCE MINIMUM		MAX LENGTH PER 100 LINKS		MAX WEIGHT PER 100 FEET	
	IN	MM	LBS	KG	LBS	KN	LBS	KN	IN	M	LBS	KG
3/16	0.218	5.5	750	340	1500	6.7	3000	13.3	99	2.51	42	19
1/4	0.281	7.1	1250	570	2500	11.1	5000	22.2	104	2.64	76	34
5/16	0.343	8.7	1900	860	3800	16.9	7600	33.8	114	2.89	115	52
3/8	0.406	10.3	2650	1200	5300	23.6	10600	47.2	128	3.25	166	75
7/16	0.468	11.9	3500	1590	7000	31.1	14000	62.3	142	3.6	225	102
1/2	0.531	13.5	4500	2040	9000	40	18000	80.1	156	3.96	289	131
5/8	0.656	16.7	6900	3130	13800	61.4	27600	122.8	194	4.92	425	193
3/4	0.781	19.8	9750	4420	19500	86.7	39000	173.5	220	5.59	612	278

WARNING Never Exceed Working Limit

TW-5005

NACM96 STANDARD LINK CHAIN
I PROOF COIL CHAIN NACM96 (G30)

NOMINAL SIZE		MATERIAL DIAMETER		WORKING LOAD LIMIT (MAX)		PROOF TEST (MIN)		BREAKING FORCE MIN		INSIDE LENGTH (MAX)		INSIDE WIDTH (MIN)	
MM	IN	MM	IN	KG	LBS	KN	LBS	KN	LBS	MM	IN	MM	IN
4.0	1/8	4.0	0.156	180	400	3.8	800	7.2	1600	23.9	0.94	6.4	0.25
5.5	3/16	5.5	0.217	365	800	7.2	1500	14.4	3200	24.8	0.98	7.7	0.3
7.0	1/4	7.0	0.276	580	1300	11.6	2600	23.2	5200	31.5	1.24	9.8	0.38
8.0	5/16	8.0	0.331	860	1900	16.9	3800	33.8	7600	32.8	1.29	11.2	0.44
10.0	3/8	10.0	0.394	1200	2650	23.5	5300	47.2	10600	35.0	1.38	14.0	0.55
11.9	7/16	11.9	0.488	1680	3700	32.9	7400	65.8	14800	41.5	1.64	16.6	0.65
13.0	1/2	13.0	0.512	2030	4500	40.0	9000	80	18000	45.6	1.79	18.2	0.72
16.0	5/8	16.0	0.63	3130	6900	61.3	13800	122.8	27600	56.0	2.20	20.0	0.79
20.0	3/4	20.0	0.787	4800	10600	94.3	21200	188.6	42400	70.0	2.78	25.0	0.98
22.0	7/8	22.0	0.865	5810	12800	114.1	25600	228.2	51200	77.0	3.03	27.5	1.08
25.0	1	26.0	1.02	8140	17900	159.1	35800	318.2	71600	90.9	3.58	31.7	1.25

II HIGH TEST CHAIN NACM96 (G43)

NOMINAL SIZE		MATERIAL DIAMETER		WORKING LOAD LIMIT (MAX)		PROOF TEST (MIN)		BREAKING FORCE MIN		INSIDE LENGTH (MAX)		INSIDE WIDTH (MIN)	
MM	IN	MM	IN	KG	LBS	KN	LBS	KN	LBS	MM	IN	MM	IN
7.0	1/4	7.0	0.276	1180	2800	17.3	3900	34.6	7800	31.5	1.24	9.8	0.38
8.7	5/16	8.7	0.343	1770	3900	26.0	5850	52	11700	32.8	1.29	11.2	0.44
10.0	3/8	10.0	0.406	2450	5400	36.0	8100	72.0	16200	35.0	1.38	14.0	0.55
11.9	7/16	11.9	0.468	3270	7200	48.0	10800	96	21600	41.6	1.64	16.6	0.65
13.0	1/2	13.5	0.531	4170	9200	61.3	13800	122.6	27600	45.5	1.79	18.2	0.72
16.0	5/8	16.0	0.63	5910	13000	86.5	19500	173	39000	56.0	2.20	20.0	0.79

TW PRODUCTS

III HIGH TEST CHAIN ASTM 80 (G43)

TRADE SIZE	MATERIAL DIAMETER		WORKING LOAD LIMIT		PROOF TEST		BREAKING FORCE MINIMUM		MAX LENGTH PER 100 LINKS		MAX WEIGHT PER 100 FEET	
	IN	MM	LBS	KG	LBS	KN	LBS	KN	IN	M	LBS	KG
1/4	0.281	7.1	2600	1180	4300	19.1	7750	34.5	98	2.49	84	38
5/16	0.343	8.7	3900	1770	6400	28.5	11600	51.6	110	2.79	120	54
3/8	0.406	10.3	5400	2450	8900	39.6	16200	72.1	134	3.4	176	80
7/16	0.468	11.9	7200	3260	11900	52.9	21500	95.6	140	3.55	230	104
1/2	0.531	13.5	9200	4170	15300	68.1	27600	122.8	150	4.06	300	136

TW-5006

NACM90 MACHINE CHAIN/ COIL CHAIN/ PASSING CHAIN
I NACM90 MACHINE CHAIN STRAIGHT LINK

TRADE SIZE		MATERIAL DIAMETER		WORKING LOAD LIMIT (MAX)		PROOF TEST (MIN)		BREAKING FORCE MIN		INSIDE LENGTH (MAX)		INSIDE WIDTH (MIN)	
MM	NO	MM	IN	KG	LBS	KN	LBS	KN	LBS	MM	IN	MM	IN
3.0	4	3.0	0.120	98	215	1.91	430	3.82	860	14.0	0.55	5.3	0.21
3.4	3	3.4	0.135	122	270	2.40	540	4.8	1080	15.0	0.59	6.1	0.24
3.8	2	3.8	0.148	147	325	2.89	650	5.78	1300	15.5	0.61	6.6	0.26
4.1	1	4.1	0.162	177	390	3.47	780	6.93	1560	16.0	0.63	7.1	0.28
4.5	1/0	4.5	0.177	211	465	4.14	930	8.27	1860	18.8	0.74	7.9	0.31
4.9	2/0	4.9	0.192	247	545	4.85	1090	9.69	2180	19.8	0.78	8.6	0.34
5.3	3/0	5.3	0.207	288	635	5.65	1270	11.29	2540	21.6	0.85	9.1	0.36
5.5	4/0	5.5	0.218	318	700	6.23	1400	12.44	2800	25.1	0.99	9.6	0.38
6.4	5/0	6.4	0.250	420	925	8.23	1850	16.44	3700	27.2	1.07	11.2	0.44

WARNING Never Exceed Working Limit

II NACM90 MACHINE CHAIN TWIST LINK

TRADE SIZE		MATERIAL DIAMETER		WORKING LOAD LIMIT (MAX)		BREAKING FORCE MIN		INSIDE LENGTH (MAX)		INSIDE WIDTH (MIN)	
MM	NO	MM	IN	KG	LBS	KN	LBS	MM	IN	MM	IN
3.0	4	3.0	0.120	93	205	3.64	820	13.1	0.52	4.3	0.17
3.4	3	3.4	0.135	116	255	4.53	1020	14.2	0.56	5.1	0.20
3.8	2	3.8	0.148	141	310	5.51	1240	14.7	0.58	5.3	0.21
4.1	1	4.1	0.162	168	370	6.58	1480	15	0.59	6.1	0.24
4.5	1/0	4.5	0.177	200	440	7.82	1760	17.2	0.68	6.6	0.26
4.9	2/0	4.9	0.192	236	520	9.24	2080	18.5	0.73	7.1	0.28
5.3	3/0	5.3	0.207	274	605	10.76	2420	20.3	0.80	7.9	0.31
5.5	4/0	5.5	0.218	304	670	11.91	2680	22.5	0.89	8.1	0.32
6.4	5/0	6.4	0.250	400	880	15.64	3520	25.3	1.00	9.4	0.37

III NACM90 COIL CHAIN STRAIGHT LINK

TRADE SIZE		MATERIAL DIAMETER		WORKING LOAD LIMIT (MAX)		PROOF TEST (MIN)		BREAKING FORCE MIN		INSIDE LENGTH (MAX)		INSIDE WIDTH (MIN)	
MM	NO	MM	IN	KG	LBS	KN	LBS	KN	LBS	MM	IN	MM	IN
3.0	4	3.0	0.120	93	205	1.82	410	3.64	820	28.1	1.11	5.32	0.21
3.4	3	3.4	0.135	116	255	2.27	510	4.53	1020	29.8	1.17	6.09	0.24
3.8	2	3.8	0.148	141	310	2.76	620	5.51	1240	29.9	1.18	6.59	0.26
4.1	1	4.1	0.162	168	370	3.29	740	6.58	1480	31.7	1.25	7.10	0.28
4.5	1/0	4.5	0.177	200	440	3.91	880	7.82	1760	31.7	1.25	7.86	0.31
4.9	2/0	4.9	0.192	236	520	4.63	1040	9.24	2080	31.9	1.26	8.61	0.34
5.3	3/0	5.3	0.207	274	605	5.38	1210	10.76	2420	32.9	1.3	9.13	0.36
5.5	4/0	5.5	0.218	304	670	5.96	1340	11.91	2680	35.2	1.39	9.64	0.38
6.4	5/0	6.4	0.250	399	880	7.83	1760	15.64	3520	38.5	1.52	11.20	0.44

WARNING Never Exceed Working Limit

TW PRODUCTS

IV NACM90 COIL CHAIN TWIST LINK

TRADE SIZE		MATERIAL DIAMETER		WORKING LOAD LIMIT (MAX)		BREAKING FORCE MIN		INSIDE LENGTH (MAX)		INSIDE WIDTH (MIN)	
MM	NO	MM	IN	KG	LBS	KN	LBS	MM	IN	MM	IN
3.0	4	3.0	0.120	88	195	3.47	780	27.6	1.09	4.56	0.18
3.4	3	3.4	0.135	109	240	4.31	970	28.9	1.14	5.32	0.21
3.8	2	3.8	0.148	134	295	5.25	1180	29.1	1.15	5.58	0.22
4.1	1	4.1	0.162	159	350	6.24	1405	30.9	1.22	6.34	0.25
4.5	1/0	4.5	0.177	188	415	7.43	1670	30.9	1.22	6.85	0.27
4.9	2/0	4.9	0.192	225	495	8.78	1975	31.4	1.24	7.36	0.29
5.3	3/0	5.3	0.207	261	575	10.23	2300	31.9	1.26	8.12	0.32
5.5	4/0	5.5	0.218	288	635	11.32	2545	34	1.34	8.32	0.33
6.4	5/0	6.4	0.250	379	835	14.86	3345	37.3	1.47	9.65	0.38

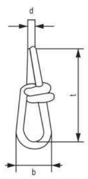
V NACM90 PASSING LINK CHAIN

TRADE SIZE		MATERIAL DIAMETER		WORKING LOAD LIMIT (MAX)		PROOF TEST (MIN)		BREAKING FORCE MIN		INSIDE LENGTH (MAX)		INSIDE WIDTH (MIN)	
MM	NO	MM	IN	KG	LBS	KN	LBS	KN	LBS	MM	IN	MM	IN
4.6	2/0	4.9	0.192	204	450	4	900	8.01	1800	22.2	0.875	11.9	0.47
5.5	4/0	5.5	0.218	272	600	5.34	1200	10.68	2400	22.2	0.875	12.7	0.5

WARNING Never Exceed Working Limit

TW-5007

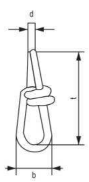
WELDLESS CHAIN
U.S. STANDARD DOUBLE LOOP CHAIN



ITEM NO.	DIAMETER (d) MM	INSIDE LENGTH (t) MM	OUTSIDE WIDTH (b) MM	WEIGHT PER 100FT KG
5	1.6	23.4	7.0	1.8
4	1.8	24.4	8.0	2.2
4L	1.8	30.5	8.0	1.96
3	2.0	28.0	9.0	3
3Z	2.0	36.3	9.0	2.6
3L	2.0	38.0	10.5	2.6
2	2.3	34.0	10.0	3.5
1	2.7	39.5	12.0	4.5
1Z	2.7	49.0	13.5	4.2
1L	2.7	52.0	12.0	4.2
1/0	3.0	45.5	14.0	5.7
1/0L	3.0	56.0	14.0	5.2
2/0	3.4	46.5	15.5	7.5
2/0Z	3.4	53.0	15.5	7
2/0L	3.4	57.0	15.5	7
3/0	3.8	55.5	17.0	9.4
4/0	4.1	56.0	19.0	11
6/0	4.9	74.0	21.0	15.7

TW-5008

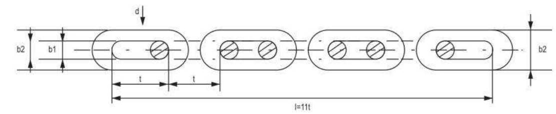
DIN5686 KNOTTED CHAIN



ITEM NO.	DIAMETER (d) MM	INSIDE LENGTH (t) MM		OUTSIDE WIDTH (b) MM	WEIGHT PER 100FT KG
14	1.4	21	6.5	16.0	4.2
16	1.6	23	7.0	22.0	6.0
20	1.8	26	8.0	30.0	7.3
22	2.0	28	9.0	40.0	9.0
25	2.2	31	10.0	50.0	11.0
27	2.5	35	11.0	70.0	14.0
30	2.8	39	12.5	90.0	17.0
32	3.1	41	14.0	120.0	21.0
35	3.4	44	15.0	140.0	26.0
40	3.8	46	17.0	160.0	34.0
45	4.2	50	19.0	170.0	41.0
50	4.6	55	20.5	180.0	50.0
55	5.0	60	22.5	190.0	57.0

TW-5009

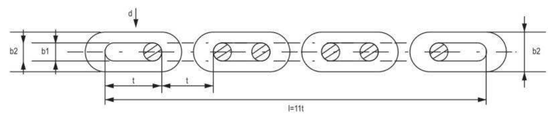
DIN766 LINK CHAIN



SIZE d		INSIDE LENGTH t			INSIDE WIDTH b1	OUTSIDE WIDTH b2	LENGTH PER 11 LINKS			WEIGHT PER M
MM	±MM	MM	±MM	-MM	MM	MM	MM	+MM	-MM	KG
2	0.2	12	0.2	0.2	3.5	7.5	132	1	0.50	0.07
3	0.2	16	0.2	0.2	4.2	11	176	1.4	0.70	0.16
4	0.2	16	0.3	0.2	5	13.7	176	2.1	1.10	0.32
5	0.2	18.5	0.4	0.2	6	17	203.5	2.4	1.20	0.50
6	0.2	18.5	0.4	0.2	7.2	20.2	203.5	2.4	1.20	0.80
7	0.3	22	0.4	0.2	8.4	23.8	242	3.0	1.40	1.10
8	0.3	24	0.4	0.2	9.6	27.2	264	3.2	1.50	1.40
9	0.4	27	0.5	0.3	10.8	30.6	297	3.6	1.80	1.80
10	0.4	28	0.5	0.3	12	34	308	3.7	1.90	2.20
11	0.4	31	0.5	0.3	13.2	37.4	341	4	2.00	2.70
12	0.3	36	0.6	0.3	14.4	40.8	396	4.4	2.20	3.10
13	0.5	36	0.6	0.3	15.6	44.2	396	4.6	2.40	3.80
14	0.6	41	0.7	0.4	16.8	47.6	451	5.4	2.70	4.40
16	0.6	45	0.8	0.4	19.2	54.4	495	6	3.00	5.70
18	0.9	50	0.8	0.4	21.6	61.2	550	6.6	3.30	7.30
19	0.4	53	0.9	0.4	22.8	64.6	583	7	3.70	7.97
20	1.0	56	1.0	0.5	24	68	616	7.4	3.70	9.00
22	1.2	62	1.1	0.5	26.4	75	682	8	4.00	11.00
23	1.2	64	1.1	0.5	27.6	78.2	704	8.4	4.20	12.00
26	1.3	73	1.2	0.6	31.2	88.4	803	9.6	4.80	15.00
28	1.4	78	1.3	0.65	33.8	95.2	858	10.2	5.10	18.00
30	1.5	84	1.4	0.7	41.0	102	924	11	5.50	19.50
32	1.6	90	1.5	0.75	43	108.8	990	11.8	5.90	23.00

TW-5010

DIN764 LINK CHAIN

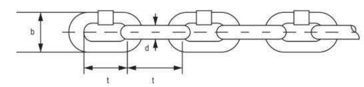


SIZE d		INSIDE LENGTH t		INSIDE WIDTH b1	OUTSIDE WIDTH b2	LENGTH PER 11 LINKS		WEIGHT PER 100M	BREAKING LOAD	TEST LOAD
MM	±MM	MM	±MM	MM	MM	MM	±MM	KG	KN	KG
4	0.2	16	0.3 0.2	5	14	176	1.6 0.9	31.3	7	400
5	0.2	18	0.4 0.2	7	18.2	198	1.8 1.0	51.4	11.8	680
6	0.2	21	5.0 0.2	8	21.5	231	2.0 1.1	74	16.5	850
8	0.2	28	0.5 0.3	11	29	308	2.2 1.2	131.5	32	1680
10	0.3	35	0.6 0.3	14	36	385	2.7 1.5	200	50	2630
12	0.3	42	0.7 0.4	16	41	462	3.2 1.8	298	70	3680
13	0.4	45	0.7 0.4	18	47	495	3.5 2.0	350	80	4200
14	0.45	49	0.8 0.5	20	48	539	3.8 2.0	406	92	4830
16	0.5	56	0.9 0.5	22	58	616	4.3 2.5	420	125	6700
18	0.8	63	1.0 0.5	24	65	693	4.7 2.8	650	160	8400
20	1	70	1.1 0.6	27	72	770	5.4 3.2	820	200	10000
23	1.2	80	1.3 0.7	31	83	880	6.2 3.5	1100	250	13000
26	1.3	91	1.5 0.8	35	94	1001	7.0 4.0	1400	320	16000

WARNING Never Exceed Working Limit

TW-5011

DIN763 LINK CHAIN



SIZE d		INSIDE LENGTH t		OUTSIDE WIDTH b		WORKING LOAD	TEST LOAD	BREAKING LOAD	WEIGHT PER M
MM	±MM	MM	±MM	MM	±MM	KG	N	N	KG
2		22	1.0	8	0.4	25	800	1250	0.06
2.5		24	1.1	10	0.5	40	800	2000	0.10
3		26	1.2	12	0.6	55	1050	3200	0.15
3.5		28	1.3	14	0.7	80	1540	3850	0.20
4		32	1.5	16	0.8	100	2500	6500	0.27
4.5		34	1.7	18	0.9	128	3000	8000	0.35
5	0.5	35	1.8	20	1.0	160	4000	10000	0.43
5.5		38.5	1.8	22	1.1	195	4200	10500	0.52
6		42	2.0	24	1.2	200	5000	12000	0.63
7		49	2.5	28	1.4	300	7500	19000	0.86
8		52	2.5	32	1.6	400	10000	25000	1.10
8.5		56	2.8	34	1.7	460	10200	25500	1.25
9		59	3.0	36	1.8	530	10500	32000	1.41
10		65	3.2	40	2.0	630	16000	40000	1.75
11		72	3.4	44	2.0	790	15800	47500	2.11
12		78	3.6	48	2.3	940	18800	56500	2.55
13		82	4.0	52	2.5	1000	25000	63000	2.95
16		100	5.0	64	3.2	1600	40000	100000	4.45
18		113	5.2	70	3.5	2120	42300	127000	5.65
19		119	5.6	72	3.4	2370	47300	142000	6.25
20		120	6.0	75	3.8	2500	50000	160000	7.00
22	1	127	6.0	82	4.0	3170	63300	190000	8.55
25		140	6.6	85	4.2	4090	81700	245000	10.90
28		152	7.0	96	4.7	6000	120000	300000	13.90
32		171	7.8	108	5.2	8000	160000	400000	18.20

WARNING Never Exceed Working Limit

TW-5012

STAINLESS STEEL LINK CHAIN SUS304/316 JAPANESE STANDARD

DIA MM	INSIDE LENGTH MM	INSIDE WIDTH MM	WEIGHT /M KG
2	12	3.5	0.07
3	24	5	0.15
3	19	5	0.16
4	26	6	0.27
4	20	6	0.29
5	27	7	0.44
5	20	7	0.49
5.5	30	8	0.54
5.5	24	10	0.6
6	31	9	0.65
6	24	9	0.72
7	37	10	0.88
7	28	10	0.96
8	38	11	1.18
8	32	12	1.27
9	39	13	1.55
9	36	14	1.61
10	42	15	1.95
12	54	20	2.77
12	48	19	2.88

TW-5013

DIN766 STANDARD

DIA MM	INSIDE LENGTH MM	INSIDE WIDTH MM	WEIGHT /M KG
2	12	3.5	0.07
3	16	5	0.163
4	16	5	0.32
5	18.5	6	0.5
6	18.5	7.2	0.8
7	22	8.4	1.1
8	24	9.9	1.4
9	27	10.8	1.8
10	28	13.2	2.68
12	36	14.6	3.11
13	36	15.6	3.8
16	45	19.2	5.7

TW-5014

DIN5686 STANDARD

DIA MM	INSIDE LENGTH MM	INSIDE WIDTH MM	WEIGHT /M KG
2	12	4	0.071
2.5	14	5	0.11
3	10	6	0.17
3.5	18	7	0.23
4	19	8	0.30
5	21	10	0.50
6	24	12	0.73
7	28	14	1.00
8	32	16	1.30
9	36	18	1.65
10	40	20	2.05
12	48	24	2.90
13	52	26	3.45

TW-5015

DIN763 (DIN5685) STANDARD

DIA MM	INSIDE LENGTH MM	INSIDE WIDTH MM	WEIGHT /M KG
2	22	4	0.061
2.5	4	5	0.10
3	26	6	0.15
3.5	28	7	0.2
4	32	8	0.27
4.5	34	9	0.35
5	35	10	0.43
6	42	12	0.63
7	49	14	0.86
8	52	16	1.10
9	59	18	1.41
10	65	20	1.75
13	82	26	2.95
16	100	32	4.45

WARNING Never Exceed Working Limit

CUSTOM HOOK & CHAIN ASSEMBLIES

No matter what chain assemblies you need, we can do it!

BINDER CHAIN ASSEMBLY

AIRCRAFT CHAIN ASSEMBLY

TOW CHAIN ASSEMBLY

...and more

TW PRODUCTS

OEM/ODM (NON-STANDARD PRODUCTS)

TW−001

T HANDLE PIN WITH LANYARD (AVAILABLE IN ALL SIZES)

TW−002

HITCH PIN (AVAILABLE IN ALL SIZES)

TW−003

QUICK RELEASE PIN

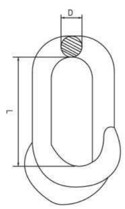
WARNING Never Exceed Working Limit

TW-004

WIRE LOCK PIN (AVAILABLE IN ALL SIZES)

TW-005

REPAIR LINK



SIZE	D	L	WEIGHT (G)
6	6	28	1900/7/31
7	7	33	372
8	8	37	545
10	10	38	980
12	12	52	1830

TW-006

COLD SHUT REPAIR LINK

SIZE	W.L.L.		WT/100PCS
	LBS	KGS	KGS
3/16	660	299	1900/1/4
1/4	880	399	8
5/16	1760	798	17
3/8	2220	998	23
1/2	3300	1479	51

WARNING Never Exceed Working Limit

TW-007

ALUMINIUM CARABINER KEYCHAIN
COLOR IS CUSTOMIZABLE

TW-008

2" DECK WINCH WITH HEX TIGHTENER
MBS11000LBS

TW-009

SOLENOID H.D 12V
ALSO AVAILABLE IN 24V

WARNING Never Exceed Working Limit

TW-010

GEAR HEAD (LEFT AND RIGHT)

TW-011

WHEEL & TIRE CHOCK
10"L X 8"W x 6"H

WARNING Never Exceed Working Limit

TW-012

TIRE SKATE (COLOR IS CUSTOMIZABLE)

The skate is made of recyclable plastic, and it is 3.25" Wide x 15.3" Long.

The rope handle is for handling only and it is not designed to be used as an attachment or pulling point.

TW-013

WINDOW WEDGE (COLOR IS CUSTOMIZABLE)
5-1/2" x 2-1/2"

WARNING Never Exceed Working Limit

TW-014

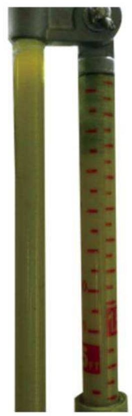
HOSE / CABLE CUTTER
TW-HDC1

Can be used to cut cable or hose. Eliminate the fraying of your steel braided tubing using this cable/hose cutter and get quick clean cuts every time!

TW-015

MEASURING HEIGHT STICK
TW-HST1

- Measures from 5 feet 10 inches (177.80cm) to 15 inches (457.20cm) and features a 48 inches (121.92cm) cross arm.
- Folds down to 53 inches (134.62cm) instead of 66 inches (167.64cm) for convenient storage and carry.
- Printed with both Imperial and Metric units.
- Comes with a carrying bag.



WARNING Never Exceed Working Limit

15 FEET HEAVY DUTY MEASURING STICK

- Measures up to 15 feet (457.20cm).
- Collapses down to just 53 inches (134.62cm).
- Comes in both imperial and metric numbers.
- With heavy-duty snap buttons.
- With a cloth carrying bag.

20 FEET HEAVY DUTY MEASURING STICK

- Measures up to 20 feet (609.60cm).
- Collapses down to just 58 inches (147.32cm).
- Comes in both imperial and metric numbers.
- With heavy-duty snap buttons.
- With a cloth carrying bag.

27 FEET HEAVY DUTY MEASURING STICK

- Measures up to 27 feet (822.96cm).
- Collapses down to just 68 inches (172.72cm).
- Comes in both imperial and metric numbers.
- With heavy-duty snap buttons.
- With a cloth carrying bag.

WARNING Never Exceed Working Limit