



# RIGGING HARDWARE

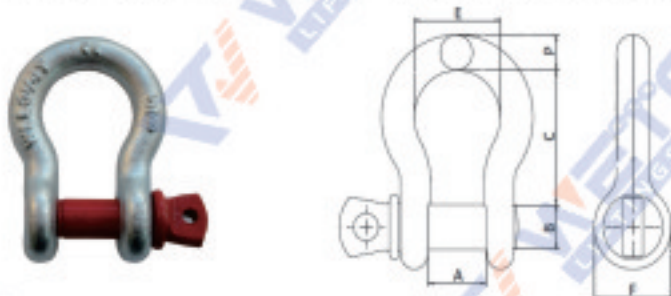
SHACKLES  
TURNBUCKLES  
WIRE ROPE CLIPS  
WIRE ROPE THIMBLES  
EYE BOLTS AND EYE NUTS  
HOOKS  
RINGS AND LINKS  
LOAD BINDERS  
SWIVELS

CARABINER SNAP HOOKS AND QUICK LINKS



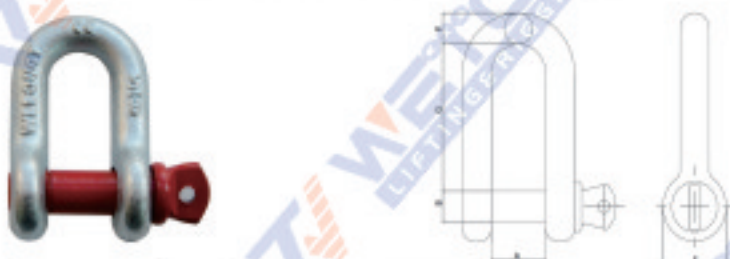
# SHACKLE

## U.S. TYPE DROP FORGED G-209 SCREW PIN ANCHOR SHACKLE



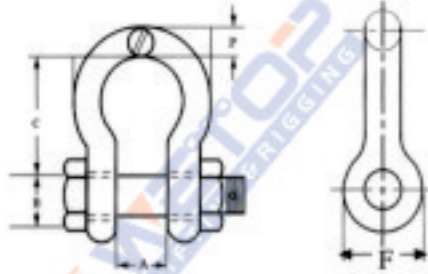
NOMINAL SIZE IN.	WLL TON	WEIGHT KG/PC	DIMENSIONS(IN.)					
			A	B	C	P	E	F
3/16"	1/3	0.02	3/8"	1/4"	7/8"	3/16"	11/16"	9/16"
1/4"	1/2	0.05	1/2"	5/16"	1-1/8"	1/4"	25/32"	11/16"
5/16"	3/4	0.09	17/32"	3/8"	1-7/32"	5/16"	27/32"	13/16"
3/8"	1	0.14	21/32"	7/16"	1-7/16"	3/8"	1-1/32"	31/32"
7/16"	1-1/2	0.17	23/32"	1/2"	1-11/16"	7/16"	1-5/32"	1-1/16"
1/2"	2	0.29	13/16"	5/8"	1-7/8"	1/2"	1-5/16"	1-3/16"
5/8"	3-1/4	0.63	1-1/16"	3/4"	2-3/8"	5/8"	1-11/16"	1-9/16"
3/4"	4-3/4	1.02	1-1/4"	7/8"	2-13/16"	3/4"	2"	1-7/8"
7/8"	6-1/2	1.53	1-7/16"	1"	3-5/16"	7/8"	2-9/32"	2-1/8"
1"	8-1/2	2.41	1-11/16"	1-1/8"	3-3/4"	1"	2-11/16"	2-3/8"
1-1/8"	9-1/2	3.09	1-13/16"	1-1/4"	4-1/4"	1-1/8"	2-29/32"	2-5/8"
1-1/4"	12	4.31	2-1/32"	1-3/8"	4-11/16"	1-1/4"	3-1/4"	3"
1-3/8"	13-1/2	6.01	2-1/4"	1-1/2"	5-3/16"	1-3/8"	3-1/2"	3-5/16"
1-1/2"	17	8.03	2-3/8"	1-5/8"	5-3/4"	1-1/2"	3-7/8"	3-5/8"
1-3/4"	25	13.78	2-7/8"	2"	7"	1-3/4"	5"	4-5/16"
2"	35	20.41	3-1/4"	2-1/4"	7-3/4"	2"	5-3/4"	5"
2-1/2"	55	38.90	4-1/8"	2-3/4"	10-1/2"	2-1/2"	7-1/4"	6"
3"	85	65	5"	3-1/4"	13"	3"	8"	7-7/8"

## U.S. TYPE DROP FORGED G-210 SCREW PIN DEE SHACKLE



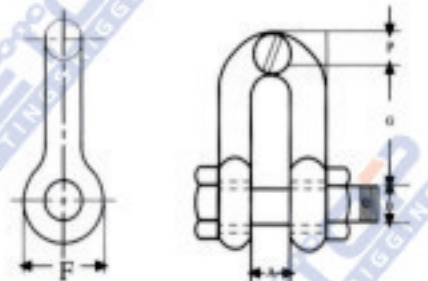
NOMINAL SIZE IN.	WLL TON	WEIGHT KG/PC	DIMENSIONS(IN.)				
			A	B	G	P	F
1/4"	1/2	0.05	15/32"	5/16"	7/8"	1/4"	11/16"
5/16"	3/4	0.08	17/32"	3/8"	1-1/32"	5/16"	13/16"
3/8"	1	0.11	21/32"	7/16"	1-1/4"	3/8"	31/32"
7/16"	1-1/2	0.17	23/32"	1/2"	1-7/16"	7/16"	1-1/16"
1/2"	2	0.23	13/16"	5/8"	1-5/8"	1/2"	1-3/16"
5/8"	3-1/4	0.55	1-1/16"	3/4"	2"	5/8"	1-9/16"
3/4"	4-3/4	0.91	1-1/4"	7/8"	2-3/8"	3/4"	1-7/8"
7/8"	6-1/2	1.49	1-7/16"	1"	2-13/16"	7/8"	2-1/8"
1"	8-1/2	2.15	1-11/16"	1-1/8"	3-3/16"	1"	2-3/8"
1-1/8"	9-1/2	2.86	1-13/16"	1-1/4"	3-9/16"	1-1/8"	2-5/8"
1-1/4"	12	4.08	2-1/32"	1-3/8"	3-15/16"	1-1/4"	3"
1-3/8"	13-1/2	5.44	2-1/4"	1-1/2"	4-3/8"	1-3/8"	3-5/16"
1-1/2"	17	7.33	2-3/8"	1-5/8"	4-13/16"	1-1/2"	3-5/8"
1-3/4"	25	13.59	2-7/8"	2"	5-3/4"	1-3/4"	4-1/8"
2"	35	19.6	3-1/4"	2-1/4"	6-3/4"	2"	5"
2-1/2"	55	33.2	4-1/8"	2-3/4"	8"	2-1/2"	6"
3"	85	54	5"	3-1/4"	8-1/2"	3"	7-7/8"

## U.S. TYPE DROP FORGED G-2130 BOLT TYPE ANCHOR SHACKLE



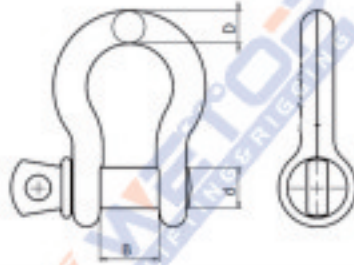
NOMINAL SIZE IN.	WLL TON	WEIGHT KG/PC	DIMENSIONS(IN.)				
			A	B	C	P	F
1/2"	2	0.36	13/16"	5/8"	1-7/8"	1/2"	1-3/16"
5/8"	3-1/4	0.76	1-1/16"	3/4"	2-3/8"	5/8"	1-9/16"
3/4"	4-3/4	1.23	1-1/4"	7/8"	2-13/16"	3/4"	1-7/8"
7/8"	6-1/2	1.79	1-7/16"	1"	3-5/16"	7/8"	2-1/8"
1"	8-1/2	2.78	1-11/16"	1-1/8"	3-3/4"	1"	2-3/8"
1-1/8"	9-1/2	3.75	1-13/16"	1-1/4"	4-1/4"	1-1/8"	2-5/8"
1-1/4"	12	5.31	2-1/32"	1-3/8"	4-11/16"	1-1/4"	3"
1-3/8"	13-1/2	6.98	2-1/4"	1-1/2"	5-3/16"	1-3/8"	3-5/16"
1-1/2"	17	9.43	2-3/8"	1-5/8"	5-3/4"	1-1/2"	3-5/8"
1-3/4"	25	15.38	2-7/8"	2"	7"	1-3/4"	4-1/8"
2"	35	23.7	3-1/4"	2-1/4"	7-3/4"	2"	5"
2-1/2"	55	44.57	4-1/8"	2-3/4"	10-1/2"	2-1/2"	6"
3"	85	89.85	5"	3-1/4"	13"	3"	6-1/2"
3-1/2"	120	120.20	5-1/4"	3-3/4"	14-5/8"	3-1/2"	8"
4"	150	153.32	5-1/2"	4-1/4"	15-1/2"	4"	9"

## U.S. TYPE DROP FORGED G-2150 BOLT TYPE DEE SHACKLE



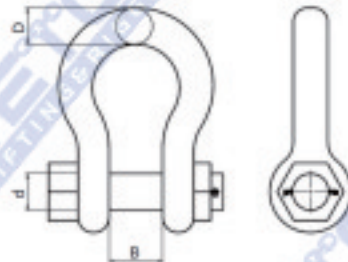
NOMINAL SIZE IN.	WLL TON	WEIGHT KG/PC	DIMENSIONS(IN.)				
			A	B	G	P	F
1/2"	2	0.34	13/16"	5/8"	1-5/8"	1/2"	1-3/16"
5/8"	3-1/4	0.67	1-1/16"	3/4"	2"	5/8"	1-9/16"
3/4"	4-3/4	1.14	1-1/4"	7/8"	2-3/8"	3/4"	1-7/8"
7/8"	6-1/2	1.75	1-7/16"	1"	2-13/16"	7/8"	2-1/8"
1"	8-1/2	2.52	1-11/16"	1-1/8"	3-3/16"	1"	2-3/8"
1-1/8"	9-1/2	3.45	1-13/16"	1-1/4"	3-9/16"	1-1/8"	2-5/8"
1-1/4"	12	4.90	2-1/32"	1-3/8"	3-15/16"	1-1/4"	3"
1-3/8"	13-1/2	6.24	2-1/4"	1-1/2"	4-3/8"	1-3/8"	3-5/16"
1-1/2"	17	8.39	2-3/8"	1-5/8"	4-13/16"	1-1/2"	3-5/8"
1-3/4"	25	14.24	2-7/8"	2"	5-3/4"	1-3/4"	4-1/8"
2"	35	21.21	3-1/4"	2-1/4"	6-3/4"	2"	5"
2-1/2"	55	38.56	4-1/8"	2-3/4"	8"	2-1/2"	6"
3"	85	56.36	5"	3-1/4"	8-1/2"	3"	6-1/2"
3-1/2"	120	—	5-1/4"	3-3/4"	—	3-1/2"	8"
4"	150	—	5-1/2"	4-1/4"	—	4"	9"

## GRADE S BOW SHACKLE AS2741 STANDARD



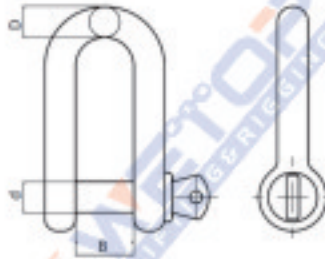
SIZE P (mm)	WLL(TON)	D(mm)	d(mm)	B(mm)
6.0	0.5	6.0	8.0	12.0
8.0	0.75	8.0	10.0	13.0
10.0	1	10.0	11.0	17.0
11.0	1.5	11.0	13.0	18.0
13.0	2	13.0	16.0	21.0
16.0	3.2	16.0	19.0	27.0
19.0	4.7	19.0	22.0	32.0
22.0	6.5	22.0	25.0	37.0
25.0	8.5	25.0	29.0	43.0
29.0	9.5	29.0	32.0	46.0
32.0	12	32.0	35.0	52.0
35.0	13.5	35.0	38.0	57.0
38.0	17	38.0	41.0	60.0
44.0	25	44.0	51.0	73.0
51.0	35	51.0	57.0	83.0
63.0	55	63.0	70.0	105.0

## GRADE S BOW SHACKLE AS2741 STANDARD



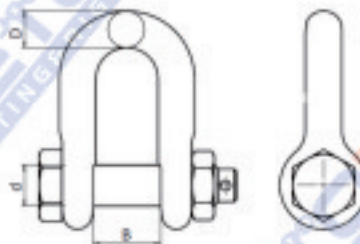
SIZE P (mm)	WLL(TON)	D(mm)	d(mm)	B(mm)
6.0	0.5	6.0	8.0	12.0
8.0	0.75	8.0	10.0	13.0
10.0	1	10.0	11.0	17.0
11.0	1.5	11.0	13.0	18.0
13.0	2	13.0	16.0	21.0
16.0	3.2	16.0	19.0	27.0
19.0	4.7	19.0	22.0	32.0
22.0	6.5	22.0	25.0	37.0
25.0	8.5	25.0	29.0	43.0
29.0	9.5	29.0	32.0	46.0
32.0	12	32.0	35.0	52.0
35.0	13.5	35.0	38.0	57.0
38.0	17	38.0	41.0	60.0
44.0	25	44.0	51.0	73.0
51.0	35	51.0	57.0	83.0
63.0	55	63.0	70.0	105.0

## GRADE S DEE SHACKLE AS2741 STANDARD



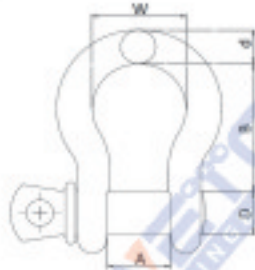
SIZE P (mm)	WLL(TON)	D(mm)	d(mm)	B(mm)
6.0	0.5	6.0	8	12
8.0	0.75	8.0	10	13
10.0	1	10.0	11	17
11.0	1.5	11.0	13	18
13.0	2	13.0	16	21
16.0	3.2	16.0	19	27
19.0	4.7	19.0	22	32
22.0	6.5	22.0	25	37
25.0	8.5	25.0	29.0	43.0
29.0	9.5	29.0	32.0	46.0
32.0	12	32.0	35.0	52.0
35.0	13.5	35.0	38.0	57.0
38.0	17	38.0	41.0	60.0
44.0	25	44.0	51.0	73.0
51.0	35	51.0	57.0	83.0

## GRADE S DEE SHACKLE AS2741 STANDARD



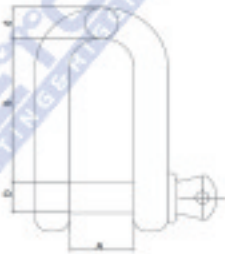
SIZE P (mm)	WLL(TON)	D(mm)	d(mm)	B(mm)
6.0	0.5	6.0	8	12
8.0	0.75	8.0	10	13
10.0	1	10.0	11	17
11.0	1.5	11.0	13	18
13.0	2	13.0	16	21
16.0	3.2	16.0	19	27
19.0	4.7	19.0	22	32
22.0	6.5	22.0	25	37
25.0	8.5	25.0	29.0	43.0
29.0	9.5	29.0	32.0	46.0
32.0	12	32.0	35.0	52.0
35.0	13.5	35.0	38.0	57.0
38.0	17	38.0	41.0	60.0
44.0	25	44.0	51.0	73.0
51.0	35	51.0	57.0	83.0

## EUROPEAN TYPE LARGE BOW SHACKLE



SIZE	A	B	D	d	W	WLL(KGS)	WEIGHT
MM	MM	MM	MM	MM	MM	KG	100 PCS/KG
5	10	20	5	5	16	80	1.9
6	12	24	6	6	20	100	3.4
8	16	32	8	8	24	200	7
10	20	40	10	10	32	320	13
12	24	48	12	12	38	520	26
16	32	64	16	16	56	800	50
20	40	80	20	20	66	1100	80
22	44	88	22	22	74	1500	130
25	50	100	25	25	80	2100	200
28	56	112	28	28	94	3000	300
32	64	118	32	32	104	3500	430
38	76	152	38	38	126	5000	700
45	90	180	45	45	150	7000	1250
50	100	200	50	50	156	8000	1750

## EUROPEAN TYPE LARGE DEE SHACKLE



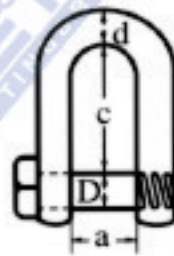
SIZE	A	B	D	d	WLL(KGS)	WEIGHT
MM	MM	MM	MM	MM	KG	100 PCS/KG
5	10	20	5	5	80	1.85
6	12	24	6	6	100	3.3
8	16	32	8	8	200	6.8
10	20	40	10	10	320	12.6
12	24	48	12	12	520	23
16	32	64	16	16	800	48.5
20	40	80	20	20	1100	78
22	44	88	22	22	1500	126
25	50	100	25	25	2100	194
28	56	112	28	28	3000	291
32	64	118	32	32	3500	417
38	76	152	38	38	5000	655
45	90	180	45	45	7000	1213
50	100	200	50	50	8000	1698

## JIS TYPE DEE SHACKLE



SIZE MM		D	A	B	WLL
D	d	mm		mm	Ton
4.8	3/16	5.0	10	18.5	0.09
6	1/4	6.5	12	25	0.15
8	5/16	8.5	14	31	0.25
9	3/8	10	18	36	0.4
12	1/2	13	24	46	0.6
16	5/8	17	30	59	1.1
19	3/4	20	36	74	1.6
22	7/8	23	43	86	2.5
25	1	27	47	95	3.0
28	1-1/8	30	55	110	3.5
32	1-1/4	34	64	130	4.5
38	1-1/2	40	76	145	6.0
44	1-3/4	47	80	160	8.5
50	2	53	90	185	10
65	2-1/2	68	110	240	18
75	3	78	120	300	24

## TRAWLING DEE SHACKLE



SIZE MM	SWL kg	D MM	d MM	a MM	c MM	e MM	WEIGHT PER 100 PCS (kg)
8	200	8	8	16	32	18	7
10	300	10	10	20	38	20	13.4
12	500	12	12	25	51	26	25
16	800	16	16	32	63	33	53
20	1100	20	20	38	76	40	92
22	1500	22	22	45	88	50	140
25	2000	25	25	51	102	57	215
28	2600	28	28	57	114	68	300
32	3800	32	32	63	127	73	455
38	4500	38	38	76	152	85	760

## CANARY TYPE SQUARE HEAD BOW SHACKLE



SIZE mm	DIMENSION(mm)					WLL ton	WEIGHT kg
	d	d1	B	B1	L1		
13	13	16	24	44	74	0.50	1.50
16	16	19	30	50	80	1.00	0.80
19	19	22	36	55	84	1.50	1.00
22	22	25	40	65	98	2.00	1.50
25	25	28	45	70	96	3.00	2.10
28	28	32	45	70	94	5.00	2.80
32	32	35	50	80	107	6.50	4.10
35	35	38	50	80	116	8.50	5.30
38	38	40	55	90	116	10.00	6.50
41	41	41	60	100	140	13.50	8.10
45	45	45	65	110	152	16.00	10.50
50	50	50	75	115	165	19.00	17.00
60	60	60	80	150	210	22.60	29.00

## CANARY TYPE SQUARE HEAD DEE SHACKLE

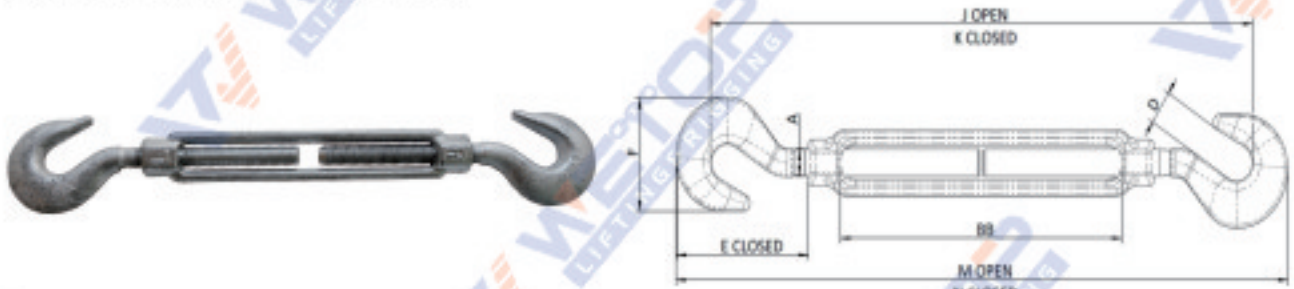


SIZE mm	DIMENSION(mm)				WLL ton	WEIGHT kg
	d	d1	B	L1		
9	9	13	17	31	0.25	0.10
13	13	16	24	43	0.50	0.30
16	16	19	30	52	1.00	0.60
19	19	22	36	63	1.50	0.90
22	22	25	45	77	2.00	1.40
25	25	28	45	91	3.00	2.00
28	28	32	45	94	5.00	2.60
32	32	35	50	100	6.50	3.70
35	35	38	50	111	8.50	5.00
38	38	41	50	110	10.00	5.90
41	41	45	50	113	13.50	7.20
45	45	48	65	136	18.00	10.20
50	50	55	70	142	25.00	16.50
55	55	60	75	150	32.50	22.00



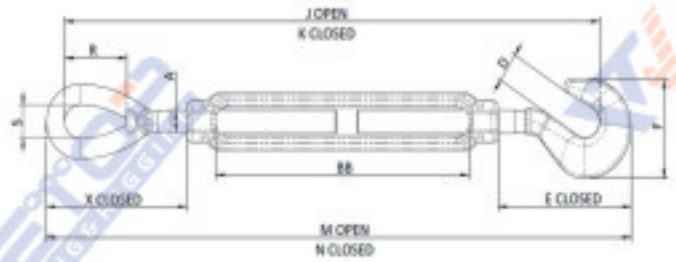
# TURNBUCKLE

## HG-223 HOOK&HOOK



Thread Dia. & Take Up (in.)	Working Load Limit (lbs.)	Weight Each (lbs.)	Dimensions (in.)								
			A	D	E Closed	F	J Open	K Closed	M Open	N Closed	BB
1/4X4	400	0.33	0.25	0.45	1.59	1.27	11.12	7.12	11.94	7.94	4.00
5/16X4-1/2	700	0.47	0.31	0.50	1.94	1.50	12.81	8.31	13.81	9.31	4.50
3/8X6	1000	0.78	0.38	0.56	2.30	1.77	16.50	10.50	17.72	11.72	6.00
1/2X6	1500	1.60	0.50	0.66	2.94	2.28	17.82	11.82	19.38	13.38	6.00
1/2X9	1500	1.83	0.50	0.66	2.94	2.28	23.82	14.82	25.35	16.38	9.00
1/2X12	1500	2.28	0.50	0.66	2.94	2.28	29.82	17.82	31.38	19.38	12.00
5/8X6	2250	2.75	0.63	0.84	3.69	2.81	19.25	13.25	21.25	15.25	6.00
5/8X9	2250	3.38	0.63	0.84	3.69	2.81	25.25	16.25	27.25	18.25	9.00
5/8X12	2250	3.50	0.75	0.84	3.69	2.81	31.25	19.25	33.25	21.25	12.00
3/4X6	3000	3.89	0.75	0.98	4.52	3.33	20.88	14.88	23.28	17.28	6.00
3/4X9	3000	5.28	0.75	0.98	4.52	3.33	26.88	17.88	29.28	20.28	9.00
3/4X12	3000	5.43	0.75	0.98	4.52	3.33	32.88	20.88	35.28	23.28	12.00
3/4X18	3000	6.33	0.88	0.98	4.52	3.33	44.88	26.88	47.28	29.28	18.00
7/8X12	4000	8.10	0.88	1.13	5.19	3.78	34.25	22.25	37.00	25.00	12.00
7/8X18	4000	9.95	1.00	1.13	5.19	3.78	46.25	28.25	49.00	31.00	18.00
1X6	5000	9.33	1.00	1.25	5.84	4.25	23.63	17.63	26.69	20.69	6.00
1X12	5000	11.93	1.00	1.25	5.84	4.25	35.63	23.63	38.69	26.69	12.00
1X18	5000	14.00	1.00	1.25	5.84	4.25	47.63	29.63	50.69	32.69	18.00
1X24	5000	17.25	1.25	1.25	5.84	4.25	59.63	35.63	62.69	38.69	24.00
1-1/4X12	6500	20.58	1.25	1.50	7.22	5.13	37.94	25.94	41.56	29.56	12.00
1-1/4X18	6500	23.00	1.25	1.50	7.22	5.13	49.94	31.94	53.56	35.56	18.00
1-1/4X24	6500	27.00	1.50	1.50	7.22	5.13	61.97	37.94	65.56	41.56	24.00
1-1/2X12	7500	27.50	1.50	1.58	8.34	5.75	40.94	28.94	44.44	32.44	12.00
1-1/2X18	7500	31.00	1.50	1.88	8.34	5.75	52.96	34.94	56.44	38.44	18.00
1-1/2X24	7500	37.50	1.50	1.88	8.34	5.75	64.94	40.94	68.44	44.44	24.00

# HG-225 HOOK&EYE



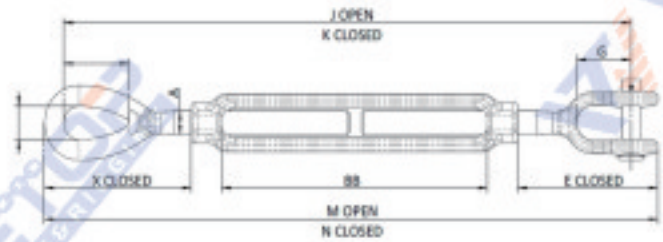
Thread Dia. & Take Up (in.)	Working Load Limit (lbs.)	Weight Each (lbs.)	Dimensions (in.)											
			A	D	E Closed	F	J Open	K Closed	M Open	N Closed	R	S	X Closed	BB
1/4X4	400	0.29	0.25	0.45	1.59	1.27	11.46	7.46	12.09	8.09	0.78	0.34	1.75	4.00
5/16X4-1/2	700	0.49	0.31	0.50	1.94	1.50	13.19	8.69	13.47	9.47	0.94	0.44	2.09	4.50
3/8X8	1000	0.78	0.38	0.56	2.30	1.77	16.98	10.98	17.49	11.94	1.12	0.53	2.52	6.00
1/2X6	1500	1.61	0.50	0.66	2.94	2.28	18.45	12.45	19.67	13.67	1.44	0.72	3.23	6.00
1/2X8	1500	1.85	0.50	0.66	2.94	2.28	24.45	15.45	25.67	16.67	1.44	0.72	3.23	9.00
1/2X12	1500	2.26	0.50	0.66	2.94	2.28	30.45	18.45	31.67	19.67	1.44	0.72	3.23	12.00
5/8X6	2250	2.70	0.63	0.84	3.69	2.81	19.96	13.96	21.47	15.47	1.75	0.88	3.90	6.00
5/8X8	2250	3.13	0.63	0.84	3.69	2.81	25.96	16.96	27.47	18.47	1.75	0.88	3.90	9.00
5/8X12	2250	3.78	0.63	0.84	3.69	2.81	31.96	19.96	33.47	21.47	1.75	0.88	3.90	12.00
3/4X6	3000	3.89	0.75	0.98	4.52	3.33	21.63	15.63	23.45	17.45	2.09	1.00	4.69	6.00
3/4X8	3000	4.61	0.75	0.98	4.52	3.33	27.63	18.63	29.45	20.45	2.09	1.00	4.69	9.00
3/4X12	3000	5.83	0.75	0.98	4.52	3.33	33.63	21.63	35.45	23.45	2.09	1.00	4.69	12.00
3/4X18	3000	6.33	0.75	0.98	4.52	3.33	45.63	27.63	47.45	29.45	2.09	1.00	4.69	18.00
7/8X12	4000	8.10	0.88	1.13	5.19	3.78	34.78	22.78	36.91	24.91	2.38	1.25	5.10	12.00
7/8X18	4000	9.95	0.88	1.13	5.19	3.78	46.78	28.78	48.91	30.91	2.38	1.25	5.10	18.00
1X6	5000	9.33	1.00	1.25	5.84	4.25	24.80	18.80	27.20	21.20	3.00	1.44	6.36	6.00
1X12	5000	11.93	1.00	1.25	5.84	4.25	36.80	24.78	39.20	27.20	3.00	1.44	6.36	12.00
1X18	5000	14.00	1.00	1.25	5.84	4.25	48.80	30.80	51.20	33.20	3.00	1.44	6.36	18.00
1X24	5000	17.25	1.00	1.25	5.84	4.25	60.80	36.80	63.20	39.20	3.00	1.44	6.36	24.00
1-1/4X12	6500	19.00	1.25	1.50	7.22	5.13	39.13	27.13	42.06	30.06	3.56	1.81	7.72	12.00
1-1/4X18	6500	23.00	1.25	1.50	7.22	5.13	51.13	33.13	54.06	36.06	3.56	1.81	7.72	18.00
1-1/4X24	6500	24.00	1.25	1.50	7.22	5.13	63.13	39.13	66.06	42.06	3.56	1.81	7.72	24.00
1-1/2X12	7500	27.50	1.50	1.88	8.34	5.75	41.72	29.72	44.72	32.72	4.06	2.12	8.62	12.00
1-1/2X18	7500	31.00	1.50	1.88	8.34	5.75	53.72	35.72	56.72	38.72	4.06	2.12	8.62	18.00
1-1/2X24	7500	37.50	1.50	1.88	8.34	5.75	65.72	41.72	68.72	44.72	4.06	2.12	8.62	24.00

# HG-226 EYE&EYE



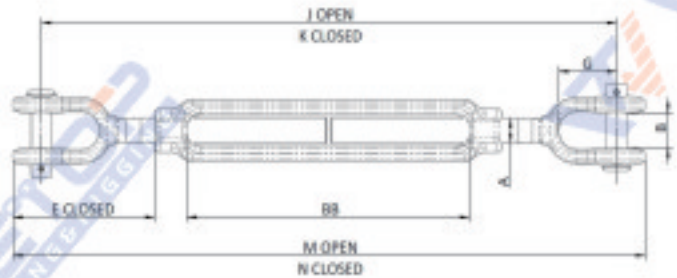
Thread Dia. & Take Up (in.)	Working Load Limit (lbs.)	Weight Each (lbs.)	Dimensions (in.)								
			A	J Open	K Closed	M Open	N Closed	R	S	X Closed	BB
1/4X4	500	0.29	0.25	11.94	7.94	12.38	8.38	0.81	0.34	1.76	4.07
5/16X4-1/2	800	0.48	0.31	13.92	9.42	14.48	9.98	0.95	0.44	2.20	4.58
3/8X6	1200	0.75	0.38	17.56	11.56	18.24	12.24	1.13	0.53	2.48	6.10
1/2X6	2200	1.72	0.50	19.94	13.94	20.82	14.82	1.41	0.71	3.56	6.03
1/2X12	2200	2.63	0.50	32.23	20.23	33.11	21.11	1.41	0.71	3.54	12.36
5/8X6	3500	2.75	0.63	21.72	15.72	22.72	16.72	1.80	0.88	4.35	6.03
5/8X12	3500	4.12	0.63	34.06	22.06	35.06	23.06	1.80	0.88	4.34	12.39
3/4X6	5200	4.22	0.75	23.24	17.24	24.50	18.50	2.09	1.00	5.12	6.13
3/4X12	5200	6.12	0.75	35.64	23.64	36.90	24.90	2.09	1.00	5.09	12.59
3/4X18	5200	7.83	0.75	47.64	29.64	48.90	30.90	2.09	1.00	5.12	18.53
7/8X12	7200	8.83	0.88	36.70	24.70	38.20	26.20	2.38	1.25	5.79	12.16
7/8X18	7200	11.50	0.88	49.17	31.17	50.67	32.67	2.38	1.25	5.79	18.63
1X6	10000	9.62	1.00	26.24	20.24	28.00	22.00	3.00	1.43	6.50	6.18
1X12	10000	13.00	1.00	38.24	26.24	40.00	28.00	3.00	1.43	6.50	12.18
1X18	10000	16.30	1.00	50.24	32.24	52.00	34.00	3.00	1.43	6.50	18.18
1X24	10000	20.20	1.00	62.84	38.84	64.60	40.60	3.00	1.43	6.47	24.64
1-1/4X12	15200	19.90	1.25	42.14	30.14	44.38	32.38	3.59	1.82	8.49	12.06
1-1/4X18	15200	23.80	1.25	54.14	36.14	56.38	38.38	3.59	1.82	8.49	18.06
1-1/4X24	15200	27.80	1.25	66.70	42.70	68.94	44.94	3.59	1.82	8.49	24.62
1-1/2X12	21400	28.70	1.50	44.24	32.24	46.74	34.74	4.09	2.12	9.46	12.32
1-1/2X18	21400	34.10	1.50	56.24	38.24	58.74	40.74	4.09	2.12	9.46	18.32
1-1/2X24	21400	39.60	1.50	68.86	44.86	71.36	47.36	4.09	2.12	9.46	24.94
1-3/4X18	28000	50.70	1.75	57.38	39.38	60.38	42.38	4.65	2.38	9.97	18.37
1-3/4X24	28000	58.20	1.75	69.38	45.38	72.38	48.38	4.65	2.38	9.97	24.37
2X24	37000	83.50	2.00	75.68	51.68	79.18	55.18	5.81	2.69	13.03	24.48
2-1/2X24	60000	149.00	2.50	79.18	55.18	83.18	59.18	6.49	3.12	13.76	24.60
2-3/4X24	75000	174.00	2.75	81.34	57.34	85.84	61.84	7.00	3.25	15.09	24.65

# HG-227 JAW&EYE



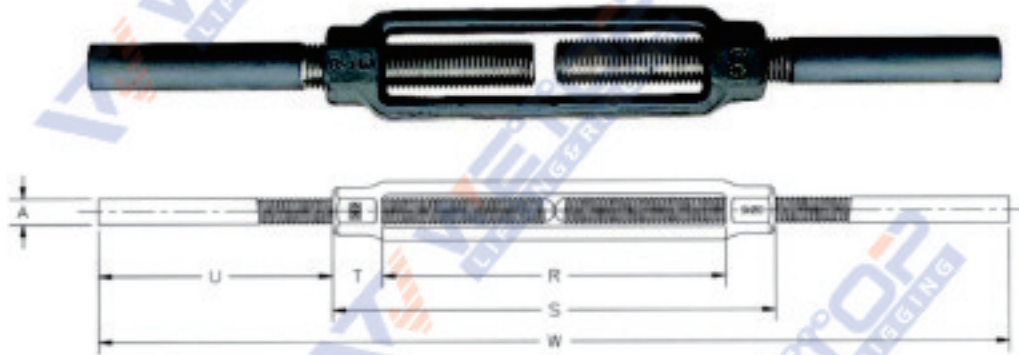
Thread Dia. & Take Up (in.)	Working Load Limit (lbs.)	Weight Each (lbs.)	Dimensions (in.)											
			A	B	E Closed	G	J Open	K Closed	M Open	N Closed	R	S	X Closed	BB
1/4X4	500	0.33	0.25	0.45	1.86	0.84	11.57	7.57	12.28	8.28	0.81	0.34	1.78	4.07
5/16X4-1/2	800	0.52	0.31	0.50	2.02	0.87	13.50	9.00	14.30	9.80	0.95	0.44	2.20	4.58
3/8X6	1200	0.80	0.38	0.53	2.11	0.85	16.91	10.91	17.87	11.87	1.13	0.53	2.48	6.10
1/2X6	2200	1.77	0.50	0.64	3.22	1.07	19.30	13.30	20.48	14.48	1.41	0.71	3.56	6.03
1/2X9	2200	2.25	0.50	0.64	3.20	1.07	25.59	16.59	26.77	17.77	1.41	0.71	3.54	9.36
1/2X12	2200	2.67	0.50	0.64	3.20	1.07	31.59	19.59	32.77	20.77	1.41	0.71	3.54	12.36
5/8X6	3500	2.98	0.63	0.79	3.90	1.32	20.73	14.73	22.27	16.27	1.80	0.88	4.35	6.03
5/8X9	3500	3.72	0.63	0.79	3.89	1.32	27.07	18.07	28.61	19.61	1.80	0.88	4.34	9.39
5/8X12	3500	4.35	0.63	0.79	3.89	1.32	33.07	21.07	34.61	22.61	1.80	0.88	4.34	12.39
3/4X6	5200	4.51	0.75	0.97	4.71	1.52	22.17	16.17	24.09	18.09	2.09	1.00	5.12	6.13
3/4X9	5200	5.56	0.75	0.97	4.68	1.52	28.57	19.57	30.49	21.49	2.09	1.00	5.09	9.59
3/4X12	5200	6.42	0.75	0.97	4.68	1.52	34.57	22.57	36.49	24.49	2.09	1.00	5.09	12.59
3/4X18	5200	8.14	0.75	0.97	4.71	1.52	46.57	28.57	48.49	30.49	2.09	1.00	5.12	18.53
7/8X12	7200	9.10	0.88	1.18	5.50	1.77	35.68	23.68	37.91	25.91	2.38	1.25	5.79	12.16
7/8X18	7200	11.6	0.88	1.18	5.50	1.77	48.15	30.15	50.38	32.38	2.38	1.25	5.79	18.63
1X6	10000	10.0	1.00	1.34	6.09	2.05	25.03	19.03	27.59	21.59	3.00	1.43	6.50	6.18
1X12	10000	13.4	1.00	1.34	6.09	2.05	37.03	25.03	39.59	27.59	3.00	1.43	6.50	12.18
1X18	10000	16.7	1.00	1.34	6.09	2.05	49.03	31.03	51.59	33.59	3.00	1.43	6.50	18.18
1X24	10000	20.6	1.00	1.34	6.06	2.05	61.63	37.63	64.19	40.19	3.00	1.43	6.47	24.84
1-1/4X12	15200	20.9	1.25	1.84	8.09	2.82	40.76	28.76	43.98	31.98	3.59	1.82	8.49	12.06
1-1/4X18	15200	24.8	1.25	1.84	8.09	2.82	52.76	34.76	55.98	37.98	3.59	1.82	8.49	18.06
1-1/4X24	15200	28.8	1.25	1.84	8.09	2.82	65.32	41.32	68.54	44.54	3.59	1.82	8.49	24.62
1-1/2X12	21400	30.6	1.50	2.06	8.93	2.81	42.50	30.50	46.21	34.21	4.09	2.12	9.46	12.32
1-1/2X18	21400	36.0	1.50	2.06	8.93	2.81	54.50	36.50	58.21	40.21	4.09	2.12	9.46	18.32
1-1/2X24	21400	41.5	1.50	2.06	8.93	2.81	67.12	43.12	70.83	46.83	4.09	2.12	9.46	24.94
1-3/4X18	28000	52.1	1.75	2.60	9.36	3.35	55.37	37.37	59.77	41.77	4.85	2.38	9.97	18.37
1-3/4X24	28000	59.7	1.75	2.60	9.36	3.35	67.37	43.37	71.77	47.77	4.85	2.38	9.97	24.37
2X24	37000	89.9	2.00	2.62	11.80	3.74	72.68	48.68	77.95	53.95	5.81	2.69	13.03	24.48
2-1/2X24	60000	158	2.50	3.08	13.26	4.44	76.08	52.08	82.68	58.68	6.49	3.12	13.76	24.60
2-3/4X24	75000	187	2.75	3.69	14.92	4.19	78.05	54.05	85.67	61.67	7.00	3.25	15.09	24.65

# HG-228 JAW&JAW



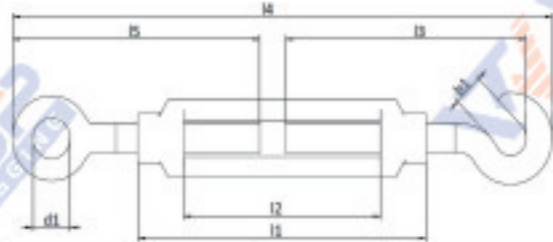
Thread Dia. & Take Up (in.)	Working Load Limit (lbs.)	Weight Each (lbs.)	Dimensions (in.)								
			A	B	E Closed	G	J Open	K Closed	M Open	N Closed	BB
1/4X4	500	0.37	0.25	0.45	1.66	0.64	11.19	7.19	12.18	8.18	4.07
5/16X4-1/2	800	0.56	0.31	0.50	2.02	0.87	13.07	8.57	14.12	9.62	4.58
3/8X6	1200	0.85	0.38	0.53	2.11	0.85	16.25	10.25	17.50	11.50	6.10
1/2X6	2200	1.82	0.50	0.64	3.22	1.07	18.65	12.65	20.14	14.14	6.03
1/2X9	2200	2.29	0.50	0.64	3.20	1.07	24.94	15.94	26.43	17.43	9.36
1/2X12	2200	2.71	0.50	0.64	3.20	1.07	30.94	18.94	32.43	20.43	12.36
5/8X6	3500	3.21	0.63	0.79	3.90	1.32	19.74	13.74	21.82	15.82	6.03
5/8X9	3500	3.95	0.63	0.79	3.89	1.32	26.06	17.08	28.16	19.16	9.39
5/8X12	3500	4.58	0.63	0.79	3.89	1.32	32.08	20.08	34.16	22.16	12.39
3/4X6	5200	4.80	0.75	0.97	4.71	1.52	21.09	15.09	23.68	17.68	6.13
3/4X9	5200	5.85	0.75	0.97	4.68	1.52	27.49	18.49	30.06	21.06	9.59
3/4X12	5200	6.72	0.75	0.97	4.68	1.52	33.49	21.49	36.06	24.06	12.59
3/4X18	5200	8.45	0.75	0.97	4.71	1.52	45.49	27.49	48.06	30.06	18.53
7/8X12	7200	9.37	0.88	1.16	5.50	1.77	34.65	22.65	37.62	25.62	12.16
7/8X18	7200	11.8	0.88	1.16	5.50	1.77	47.12	29.12	50.09	32.09	18.63
1X6	10000	10.4	1.00	1.34	6.09	2.05	23.82	17.82	27.18	21.18	6.18
1X12	10000	13.8	1.00	1.34	6.09	2.05	35.82	23.82	39.18	27.18	12.18
1X18	10000	17.1	1.00	1.34	6.09	2.05	47.82	29.82	51.18	33.18	18.18
1X24	10000	21.0	1.00	1.34	6.06	2.05	60.42	36.42	63.78	39.78	24.84
1-1/4X12	15200	21.9	1.25	1.84	8.09	2.82	39.37	27.37	43.58	31.58	12.06
1-1/4X18	15200	25.9	1.25	1.84	8.09	2.82	51.37	33.37	55.58	37.58	18.06
1-1/4X24	15200	29.8	1.25	1.84	8.09	2.82	63.93	39.93	68.14	44.14	24.62
1-1/2X12	21400	32.6	1.50	2.06	8.93	2.81	40.76	28.76	45.68	33.68	12.32
1-1/2X18	21400	38.0	1.50	2.06	8.93	2.81	52.76	34.76	57.68	39.68	18.32
1-1/2X24	21400	43.5	1.50	2.06	8.93	2.81	65.38	41.38	70.30	46.30	24.94
1-3/4X18	28000	53.5	1.75	2.60	9.36	3.35	53.35	35.35	59.16	41.16	18.37
1-3/4X24	28000	61.1	1.75	2.60	9.36	3.35	65.35	41.35	71.16	47.16	24.37
2X24	37000	96.3	2.00	2.62	11.80	3.74	69.64	45.64	76.72	52.72	24.48
2-1/2X24	60000	167	2.50	3.06	13.26	4.44	72.97	48.97	82.18	58.18	24.60
2-3/4X24	75000	199	2.75	3.69	14.92	4.19	74.75	50.75	85.50	61.50	24.65

## US TYPE STUB END TURNBUCKLES

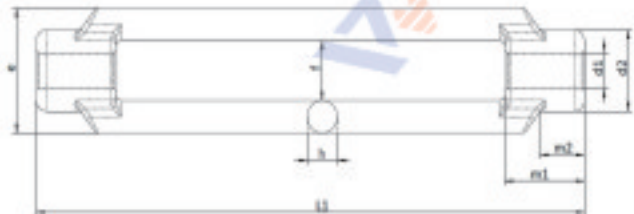


SHANK DIAMETER & TAKE UP (IN.)	WORKING LOAD LIMIT (LBS.)	WEIGHT EACH (LBS.)	DIMENSIONS (IN.)					
			A	R	S	T	U	W
3/8X8	1200	0.75	0.38	6.00	7.13	0.56	4.44	16.00
1/2X8	2200	1.25	0.50	6.00	7.50	0.75	4.25	16.00
5/8X8	3500	2.11	0.63	6.00	7.88	0.94	4.06	16.00
3/4X8	5200	3.27	0.75	6.00	8.25	1.13	4.38	17.00
7/8X8	7200	4.78	0.88	6.00	8.63	1.13	4.69	18.00
1X8	10000	6.36	1.00	6.00	9.00	1.50	5.00	19.00
1X12	10000	8.80	1.00	12.00	15.00	1.50	5.00	25.00
1 1/8X8	12400	8.88	1.13	6.00	9.13	1.56	4.94	19.00
1 1/4X8	15200	10.18	1.25	6.00	9.13	1.56	5.44	20.00
1 1/4X12	15200	13.60	1.25	12.00	15.12	1.56	5.44	26.00
1 1/2X12	21400	20.44	1.50	12.00	15.75	1.88	5.38	26.50

## TURNBUCKLE BODY DIN 1480

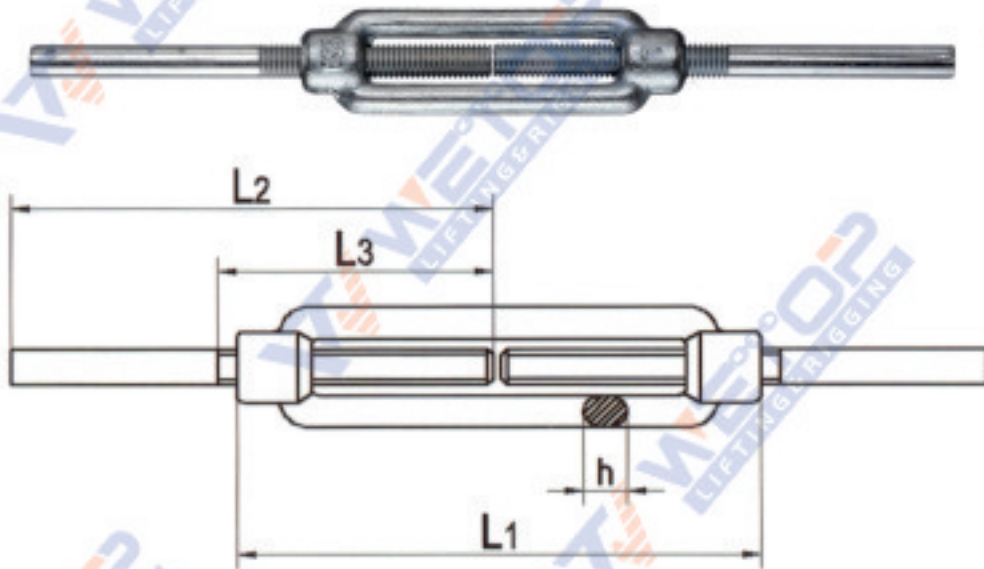


THREAD (MM)	L1 (MM)	L2 (MM)	L3 (MM)	B1 (MM)	L4 (MM)	D1 (MM)	L5 (MM)	WEIGHT (KG)PER 100 PCS.
M6	110	80	85	8.5	80	9	172	9.5
M8	110	75	85	11	84	10	182	16.5
M10	125	85	112	13.5	105	14	213	29
M12	125	80	117	15.5	115	16	238	43
M14	140	90	122	18.5	122	18	263	62
M16	170	110	138	19	165	22	320	92
M20	200	130	170	20.5	167	24	367	163
M22	220	145	185	26	167	27	398	220
M24	255	170	205	26	205	27	447	300
M30	255	160	225	33	255	31	512	460
M36	295	180	255	44	276	43	568	768
M42	330	200	340	48	260	49	683	1290
M48	355	195	360	58	300	58	755	2100



THREAD (MM)	L1 (MM)	ADJUSTABLE	D2 (MM)	E (MM)	F (MM)	H (MM)	M1 (MM)	M2 (MM)	WEIGHT (KG)PER 100 PCS.
M6	110	80	12	19	9	6	12	6	5.5
M8	110	75	15	23	11	8	15	8	9.5
M10	125	85	18	30	14	9	18	9	15.5
M12	125	80	21	34	16	11	21	11	20.5
M14	140	90	25	38	18	10	24	9	31
M16	170	110	27	42	20	14	27	14	41
M20	200	130	34	52	24	17	34	17	74
M22	220	145	36	57	26	16	37	15	95
M24	255	170	39	60	28	20	39	20	130
M30	255	160	45	74	34	23	45	23	180
M36	295	180	55	86	40	28	55	28	310
M42	330	200	53	104	50	32	63	32	556
M48	355	195	80	135	65	40	78	39	975
M56	355	195	80	135	65	40	78	39	900

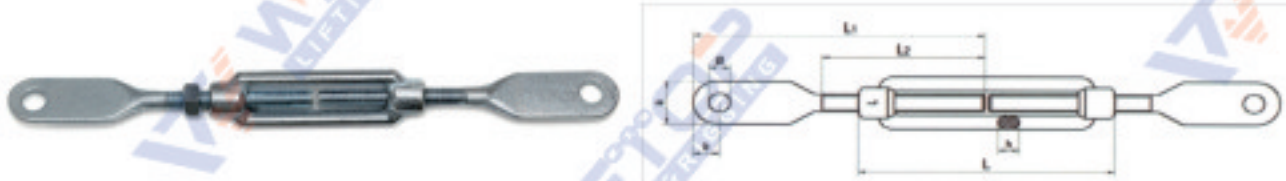
## DROP FORGED DIN1480 TURNBUCKLE STUB ENDS



THREAD (MM)	L3 (MM)	L2 (MM)	L1 (MM)	WEIGHT(KG) PER100 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



## DIN1480 TURNBUCKLES WITH PLATE ENDS



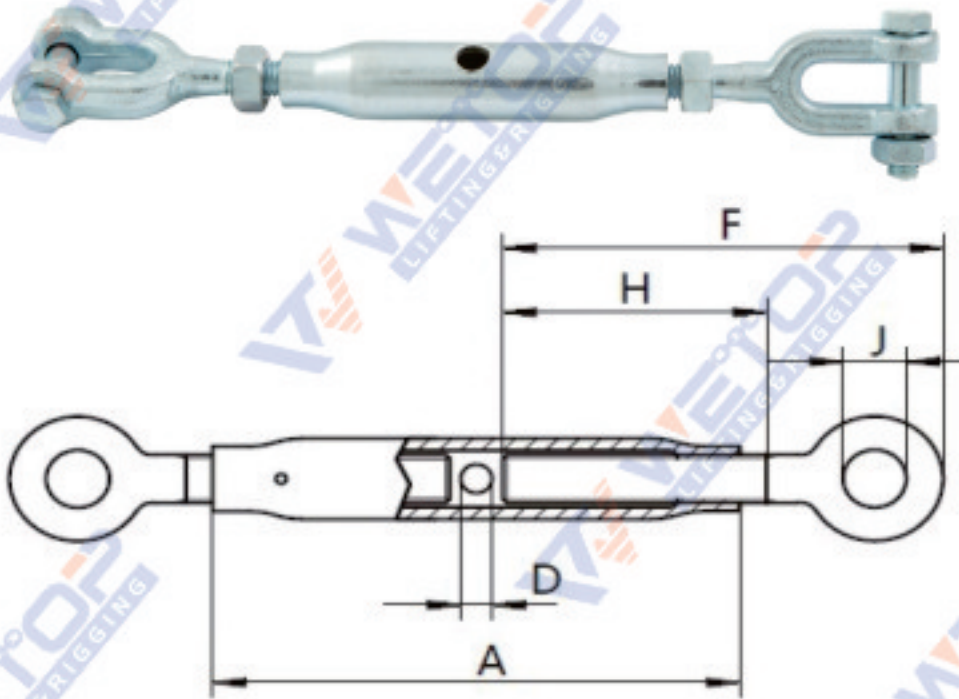
SIZE	L	h	L1	L2	a	b	Φ
M8	110	8	125	70	20	11	6.5
M10	125	9	150	85	25	13	10.5
M12	125	11	170	85	30	16	13
M16	170	14	250	110	40	20.5	12.5
M20	200	17	250	110	50	27	16.5
M24	255	21	300	153	70	45	22
M30	255	23	349.5	150	70	45	25

## DIN1480 MALLEABLE TURNBUCKLE



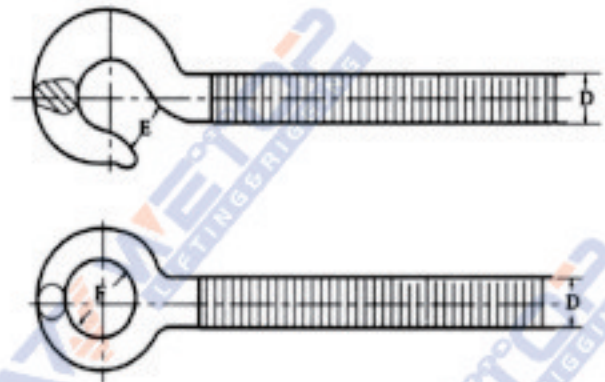
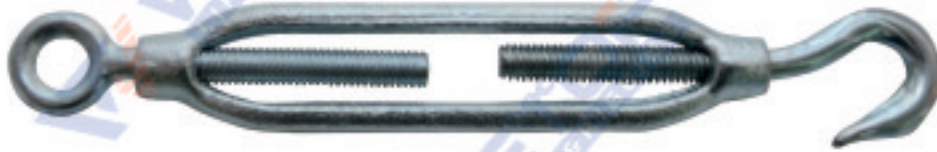
SIZE	L1	L2	L3	L4	L5	d1	b1
5mm	70	45	55	35	30	7.5	7
6mm	90	65	70	45	38	10	8
8mm	110	82	82	50	50	10.5	10.5
10mm	125	90	92	63	60	12	14
12mm	135	108	104	68	73	15	16
14mm	170	118	122	73	73	18	18
16mm	185	140	120	81	85	22	19
20mm	220	158	145	95	105	24	22
24mm	255	200	170	110	120	28	28

## DIN 1478 CLOSE BODY TURNBUCKLE



THREAD	A MM	D MM	F MM	H MM	G MM	WEIGHT/100 PCS KG
M6	110	6	74	50	10	16
M8	110	8	80	52	11	18
M10	125	8	95	59	15	28
M12	125	10	107	66	17	42
M16	170	10	146	85	22	91
M20	200	12	170	100	24	136
M24	255	12	213	134	33	260
M30	255	16	255	150	39	375
M36	295	16	260	150	37	635
M42	330	20	285	165	48	1050
M48	355	20	335	185	58	1550

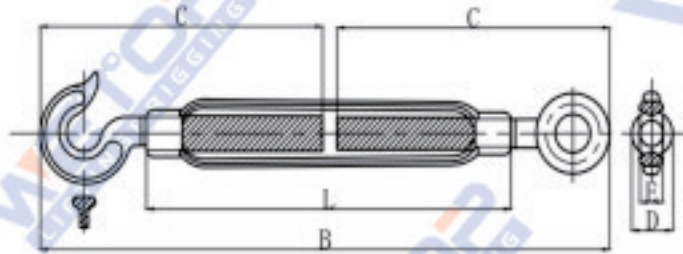
# JIS FORGED STEEL FRAME TYPE TURNBUCKLE



(1) (2) (3) (4) (6) SIZES AND WEIGHTS (APPROX.)

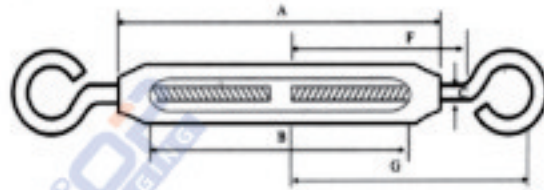
NOMINAL SIZE		(1) BODY ONLY						(2) EYE&EYE			(3) HOOK&EYE			(4) HOOK & HOOK			(6) WITH STUBS											
		A		B		C		T.L		W/PC		F	T.L		W/PC		E	T.L		W/PC		H	I(A2)		G	W/PC		
mm	in	mm	in	mm	mm	Ton	Kg	mm	Ton	Kg	Ton	Kg	mm	Ton	Kg	mm	Ton	Kg	mm	mm	mm	mm	mm	mm	mm	mm	Kg	
6	1/4	100	4	78	11	1	0.08	10	0.1	0.116	0.04	0.114	9	0.04	0.112	80	50	5.3	0.112									
8	5/16	125	5	100	12.5	1.2	0.15	12	0.2	0.22	0.08	0.218	9	0.08	0.215	100	63	6.9	0.22									
9	3/8	150	6	120	12.5	1.5	0.17	16	0.5	0.30	0.15	0.293	11	0.15	0.29	130	75	8.3	0.273									
12	1/2	200	8	164	18	2	0.29	20	2	0.58	0.35	0.585	16	0.35	0.57	150	100	11.2	0.51									
16	5/8	250	10	202	21.5	3	0.52	22	3	1.07	0.7	1.05	19	0.7	1.03	180	125	14.2	0.95									
19	3/4	300	12	250	25	4	0.85	28	4	1.77	1.0	1.78	20	1.0	1.77	220	150	17.2	1.62									
22	7/8	325	13	269	28	5	1.17	33	5	2.55	1.5	2.58	21	1.5	2.60	250	165	20.3	2.34									
25	1	350	14	285	32.5	6	1.69	35	6	3.79	2.0	3.77	26	2.0	3.72	270	175	23.3	3.27									
32	1-1/4	400	16	310	45	8	3.51	36X70	10	7.6	3.0	7.52	34	3.0	7.44	300	200	29	6.52									
38	1-1/2	450	18	350	55	10	5.08	40X80	15	13.50	4.0	12.8	35	4.0	22	330	225	38	13									
44	1-3/4	500	20	386	57	—	9.00	—	—	—	—	—	—	—	22	—	250	44	—									
50	2	550	22	420	65	—	11.50	—	—	—	—	—	—	—	29	—	275	50	—									

## MALLEABLE IRON COMMERCIAL TURNBUCKLE



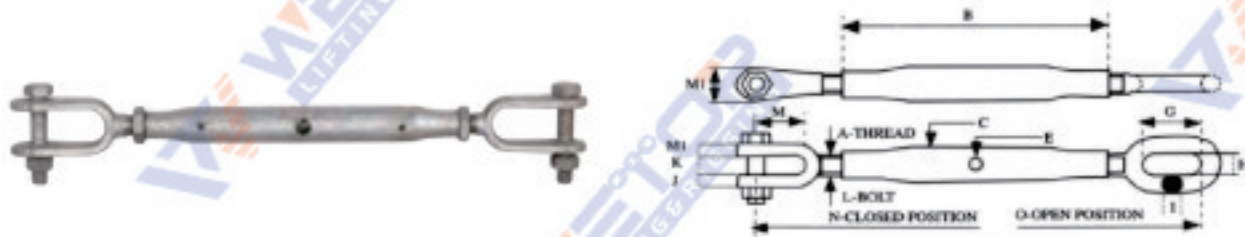
SIZE	WILL	L	C	WEIGHT EACH
MM	KG	MM	MM	KG
6X100	100	100	215	0.16
8X125	200	125	280	0.24
10X150	300	150	325	0.39
12X200	500	200	430	0.64
16X250	1000	250	540	1.44
20X300	1500	300	670	2.45
22X320	2200	325	740	3.60
24X350	3000	350	830	5.00
28X360	3500	360	790	3.66
30X385	3800	385	865	4.89
32X385	3800	385	865	4.89
38X490	5350	490	1125	11.26
40X490	5350	490	1125	11.26

## KOREAN TYPE MALLEABLE TURNBUCKLE



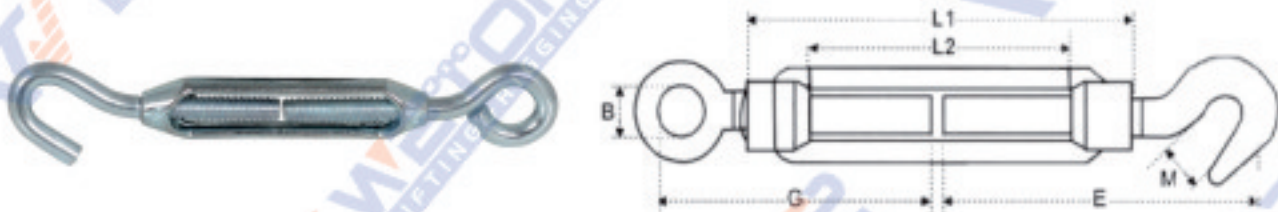
SIZE	A (MM)	B (MM)	C (MM)	D (MM)	E (MM)	F (MM)	G (MM)	WEIGHT PER 100PCS (KG)
3/16"	57.4	41.2	41.5	18.4	15	36	54.6	30
5/16"	90	70	8	11	22	65	95	145
3/8"	160	130	9	17	30	85	130	345
1/2"	190	155	10	20	30	95	150	560
1/2"(Long)	255	215	10	30	35	140	190	790
5/8"	250	200	15	25	45	130	190	1120
5/8"(Long)	350	300	15	30	45	180	240	1540
3/4"	250	200	20	35	45	140	210	1670
3/4"(Long)	300	245	20	40	55	170	240	2050

## RIGGING SCREW



ΦA THREAD	B mm	ΦC mm	ΦE mm	G mm	H mm	ΦI mm	J mm	ΦK mm	ΦL mm	M mm	M1 mm	N mm	O mm	Suitable For WLL	WT kg
M6	102	17	6	14	8	6	6	9	4	21	14	176	254	100kgs	0.1
M8	127	17	6	20	9	8	6	9	6	21	18	203	305	150kgs	0.2
M10	152	21	8	25	11	8	8	12	8	19	18	235	349	380kgs	0.4
M12	229	27	9	38	14	11	9	19	10	35	24	334	527	500kgs	1.0
M16	229	27	11	40	18	14	9	22	12	51	32	375	556	760kgs	1.4
M20	229	34	11	50	22	16	11	22	16	48	36	385	554	1.2t	2.0
M22	305	42	13	48	22	17	13	25	20	60	40	465	704	1.7t	3.4
M24	356	42	13	51	25	19	14	32	22	63	48	528	812	2.2t	4.4
M27	356	48	13	57	28	20	14	32	22	70	52	542	817	2.8t	5.5
M33	381	48	14	64	34	25	19	38	24	76	64	602	884	3.8t	8.0
M39	407	60	16	75	38	27	19	47	33	90	64	644	934	5.2t	12.0
1.3/4"	407	76	17	85	40	30	24	48	36	105	80	670	942	7.2t	17.0
2"	407	76	19	92	44	37	25	51	42	121	92	739	993	10t	24.0

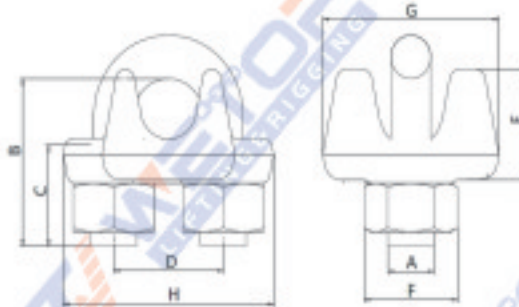
## TURNBUCKLE ZINC ALLOY DIECAST SERIES



SIZE	L1	K2	b	g	e	m	NW
	mm	mm	mm	mm	mm	mm	mm
M5X50	50	30	8	43	43	7	30
M5X70	70	50	9	50	50	7	37
M6X60	60	35	10	52	50	8	50
M6X100	100	70	10	70	70	10	67
M8X70	70	45	11	60	55	11	85
M8X110	110	80	11	80	75	11	125
M10X80	80	50	12	70	60	11	156
M10X120	120	80	15	100	95	16	195
M12X130	130	90	15	105	100	15	385

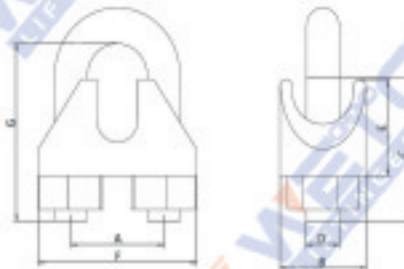
# WIRE ROPE CLIP

## US TYPE G-450 DROP FORGED WIRE ROPE CLIP



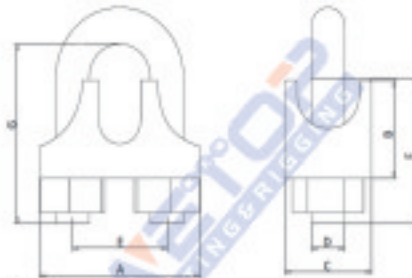
ROPE SIZE		WEIGHT PER 100(LBS.)	DIMENSIONS (IN.)							
(IN.)	(MM)		A	B	C	D	E	F	G	H
1/8"	3-4	6	0.22	0.72	0.44	0.47	0.37	0.38	0.81	0.99
3/16"	5	10	0.25	0.97	0.56	0.59	0.50	0.44	0.64	1.18
1/4"	6-7	19	0.31	1.03	0.50	0.75	0.66	0.56	1.19	1.43
5/16"	8	28	0.38	1.38	0.75	0.88	0.73	0.69	1.31	1.66
3/8"	9-10	48	0.44	1.5	0.75	1.00	0.91	0.75	1.63	1.94
7/16"	11	78	0.50	1.88	1.00	1.19	1.13	0.88	1.91	2.28
1/2"	12-13	8	0.50	1.88	1.00	1.19	1.13	0.88	1.91	2.28
9/16"	14-15	109	0.56	2.25	1.25	1.31	1.34	0.94	2.08	2.50
5/8"	16	110	0.56	2.25	1.25	1.31	1.34	0.94	2.08	2.50
3/4"	18-20	142	0.62	2.75	1.44	1.50	1.39	1.08	2.25	2.84
7/8"	22	212	0.75	3.12	1.62	1.75	1.58	1.25	2.44	3.16
1"	24-26	252	0.75	3.50	1.81	1.88	1.77	1.25	2.63	3.47
1-1/8"	28-30	283	0.75	3.88	2.00	2	1.91	1.25	2.81	3.59
1-1/4"	32-34	438	0.88	4.44	2.22	2.31	2.17	1.44	3.13	4.13
1-3/8"	36	442	0.88	4.44	2.22	2.38	2.31	1.44	3.13	4.19
1-1/2"	38	544	0.88	4.94	2.38	2.59	2.44	1.44	3.41	4.44
1-5/8"	41-42	704	1.00	5.31	2.62	2.75	2.66	1.63	3.63	4.75
1-3/4"	44-46	934	1.13	5.75	2.75	3.06	2.92	1.81	3.81	5.24
2"	48-52	1300	1.25	6.44	3.00	3.38	3.28	2.00	4.44	5.88
2-1/4"	56-58	1600	1.25	7.13	3.19	3.88	3.19	2.00	4.56	6.38
2-1/2"	62-65	1900	1.25	7.69	3.44	4.13	3.69	2.00	4.05	6.63
2-3/4"	68-72	2300	1.25	8.31	3.56	4.38	4.88	2.00	5.00	6.88
3"	75-78	3100	1.50	9.19	3.88	4.75	4.44	2.38	5.31	7.61
3-1/2"	85-90	4000	1.50	10.75	4.50	5.50	6.00	2.38	6.19	8.38

## US TYPE MALLEABLE WIRE ROPE CLIP



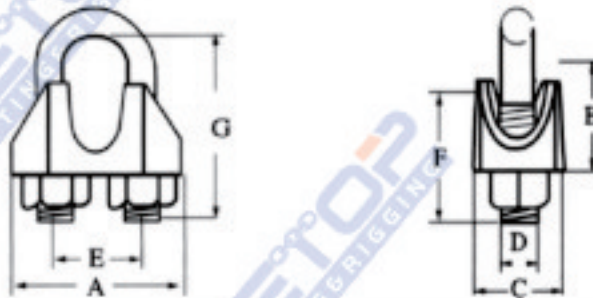
SIZE	MM	A	MM	B	MM	C	MM	D	IN	E	MM	F	MM	G	MM	W/100PCS	KGS
1/8"	11	14	14	14	1/4	10.8	22	20	1.54								
3/16"	14.5	15	16	1/4	13	26	24	2.5									
1/4"	17	18.5	20	5/16	15	32	31	5.3									
5/16"	18.3	20	22	5/16	16	35	34	5.9									
3/8"	22.5	22	27	3/8	22	40.5	41	11									
7/16"	24	23	30	3/8	22	43	42	11									
1/2"	27	26	35	7/16	23.3	49	53	18.5									
9/16"	30	26.5	40	1/2	27	52.5	54	25									
5/8"	33	28	40	1/2	28	57.5	59	28									
3/4"	34.5	32	42	9/16	34	61	68	35									
7/8"	41	37	48	5/8	38	71	78	53									
1"	45.5	42	55	5/8	43	77.5	87	66.6									

## DIN741 MALLEABLE WIRE ROPE CLIP



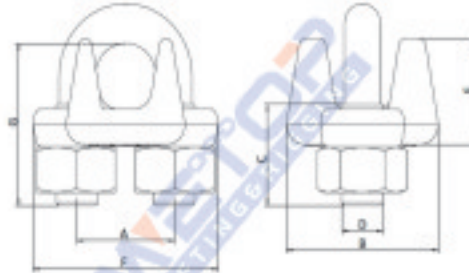
SIZE MM	A MM	B MM	C MM	D MM	E MM	F MM	G MM	WT/100PCS KGS
3MM	M4	21	10	10	9	12	16.6	1.4
5MM	M5	23	10	11	11	13	19.65	1.5
6MM	M5	26	11	12	13	15	23.65	2.1
8MM	M6	30	15	14	16	19	28.85	4.1
10MM	M8	34	17	18	19	22	35	6.8
11MM	M8	36	18	19	20	22	37	7.2
13MM	M10	40	21	23	24	30	46.24	13
14MM	M10	44	22	23	25	30	48.24	13.5
16MM	M12	50	26	26	29	33	52.5	21
19MM	M12	54	30	29	32	38	64.5	28
22MM	M14	61	34	33	37	44	72.5	40
26MM	M14	65	37	35	41	45	82.5	44
30MM	M16	74	43	37	48	50	95.6	66
34MM	M16	80	50	42	52	55	105.6	85
40MM	M16	88	55	45	58	60	125.6	104
40/50MM	M20	105	63	52	69	98	176	200

## DIN1142 MALLEABLE WIRE ROPE CLIP



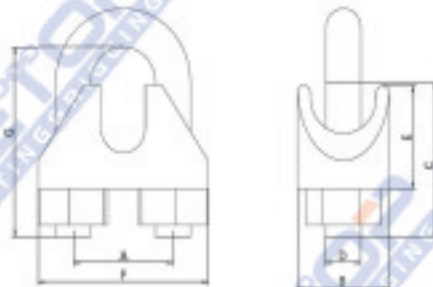
SIZE (MM)	DIMENSIONS IN MM							WT/100PCS (KGS)
	F	E	C	D	G	B	A	
5	13	7	13	5	25	13	25	2.08
6.5	17	8	16	6	32	14	30	4
8	20	10	20	8	41	18	39	8.2
10	24	12	20	8	46	21	40	9.2
13	30	15	28	12	64	29	55	27.5
16	35	18	32	14	76	35	64	43
19	36	22	32	14	83	40	68	49
22	40	24	34	16	96	44	74	68
26	50	26	38	20	111	51	84	117
30	55	34	41	20	127	59	95	140
34	60	38	45	22	141	67	105	213
40	65	44	49	24	159	77	117	268

## TYPE A MALLEABLE WIRE ROPE CLIP



SIZE MM	A MM	B MM	C MM	D MM	E MM	F MM	G MM
6	12	17	14	5	14	23	24.8
8	15	21	16	6	17	28	30.66
10	19	28	20	8	21	38	37.95
12	24	34	25	10	27	45	47.15
15	29	40	30	12	32	52	57.73
20	36	47	36	14	38	62	71.73
22	40	52	39	16	43	69	78.23
25	43	56	44	18	50	76	90.4
28	48	62	48	20	57	85	96.9
32	55	67	51	22	61	93	110.4
40	64	81	62	24	73	111	122.5
45	72	88	70	27	86	123	139.5
50	80	95	80	30	95	135	156

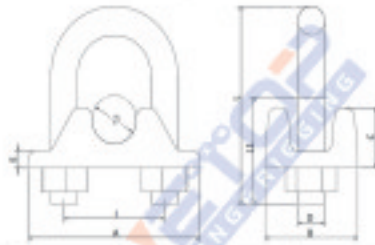
## TYPE B MALLEABLE WIRE ROPE CLIP



SIZE IN	A MM	B MM	C MM	D MM	E MM	F MM	G MM
1/8	9	12	12	4	9.5	19	20
3/16	11	13.5	14	5	10.8	22	26
1/4	12.5	15.5	14	6	11.5	25	26
5/16	15.5	18	16	6	16	31	31
3/8	21	22	20	8	20	40	37
1/2	25	25	24	10	26	47	46
5/8	30	28	28	12	31	55	57
11/16	33	28.5	30	12	35	58.5	64
3/4	36.5	31	34	16	36	65	71
7/8	40	36	38	16	43	72	77
1	45	40	44	20	48	80	88

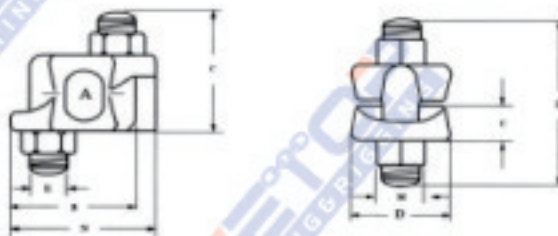


## ITALIAN TYPE DROP FORGED WIRE ROPE CLIP



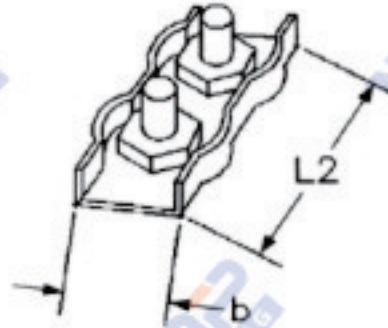
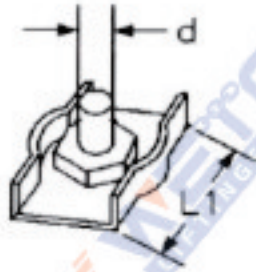
SIZE	A	B	C	D	E	I	L	L1
MM	MM	MM	MM	MM	MM	MM	MM	MM
3-4	21	14	9	4	4.5	9	20	11
5	25	17	10	5	4.5	11	24	13
6	30	19	11	6	5	14	33	18
8	34	20	12	6	5	16	35	18
10	38	22	14	8	6	18.5	44	22
11	41	24	14.3	8	7	22	44	22
12	45	25	16	10	7	24	55	33
14	46	27	17	10	7.5	24	55	33
16	53	31	18	10	8	30	65	33
18	59	33	20	12	8	30	78	38
20	60	34	22	12	8	34	78	38
22	66	35	23	12	8	36	81	45
24-25	70	40	24	12	9	39	86	45
26	72	40	26.5	14	12	42	95	50
28	80	43	30	14	12	43	110	55
30	80	44	33	14	10	47	110	50
32	92	45	34	16	14	49	115	60
34	90	48	37	16	11	53	120	55
38	95	51	39	16	16	57	130	63
40	100	55	40	16	14	59	140	60
45	116	60	47	16	17	70	158	83

## FIST GRIP CLIPS SIMILAR TO G-429



ROPE SIZE (IN.)	WEIGHT PER 100 (LBS.)	DIMENSIONS(IN.)								
		A	B	C	D	E	G	APPROX L	M	N
3/16-1/4	18	0.25	1.25	0.34	0.94	0.38	1.28	1.36	0.69	1.47
5/16	28	0.31	1.34	0.44	1.06	0.38	1.47	1.94	0.69	1.56
3/8	40	0.38	1.59	0.50	1.06	0.44	1.81	2.38	0.75	1.88
7/16-1/2	70	0.50	1.88	0.56	1.25	0.50	2.19	2.75	0.88	2.19
9/16-5/8	100	0.63	2.28	0.69	1.50	0.63	2.69	3.50	1.06	2.63
3/4	175	0.75	2.69	0.88	1.81	0.75	2.94	3.75	1.25	3.06
7/8	225	0.88	2.97	0.97	2.13	0.75	3.31	4.13	1.25	3.14
1	300	1.00	3.06	1.19	2.25	0.75	3.72	4.63	1.25	3.53
1-1-8	400	1.13	3.44	1.28	2.38	0.88	4.19	5.25	1.44	3.91
1-1-4	400	1.25	3.56	1.34	2.50	0.88	4.25	5.25	1.44	4.03
1-3/8-1-1/2	700	1.50	4.13	1.56	3.00	1.00	5.56	7.00	1.83	4.68

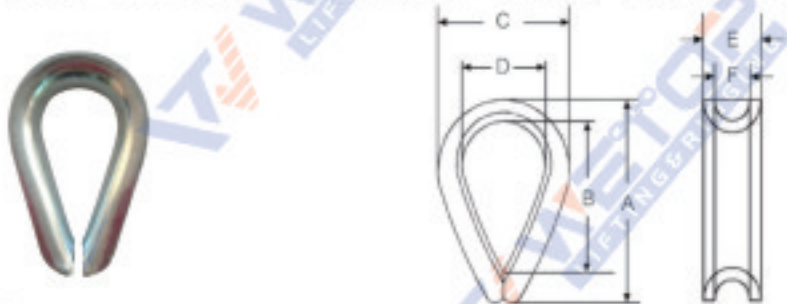
## SIMPLEX & DUPLEX WIRE ROPE CLIPS



SIZE MM	D MM	B MM	L1 MM	L2 MM	WEIGHT (KG)/100PCS	
					SIMPLEX	DUPLEX
2	M4	4	15	—	0,46	—
3	M4	6	17	—	0,72	—
4	M5	8	20	—	1,27	—
5	M5	10	25	—	1,46	—
6	M6	12	30	—	2,52	—
8	M8	17	37	—	5,42	—
2	M4	4	—	30	—	0,97
3	M4	6	—	35	—	1,41
4	M5	8	—	40	—	2,45
5	M5	10	—	50	—	2,91
6	M6	12	—	60	—	5,00
8	M8	17	—	75	—	10,63

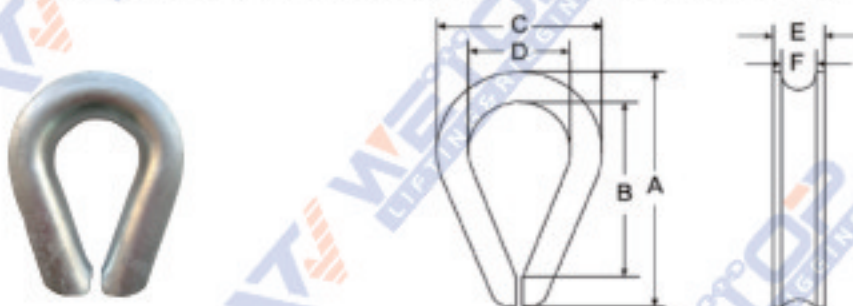
# WIRE ROPE THIMBLE

## U.S. TYPE G-411 LIGHT DUTY WIRE ROPE THIMBLE



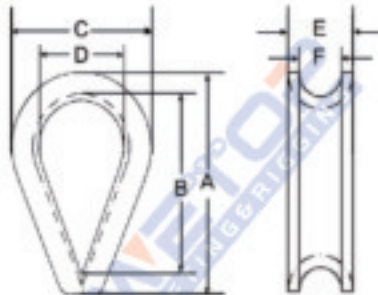
SIZE IN.	DIMENSIONS(MM)						WEIGHT KG/PC
	A	B	C	D	E	F	
1/8"	49.28	33.27	27	17.5	6.35	4	0.013
3/16"	49.28	33.27	27	17.5	7.87	5	0.013
1/4"	49.28	33.27	27	17.5	9.65	7	0.013
5/16"	54	38	31.75	20.57	11.18	8.6	0.016
3/8"	60.5	41	37	23.88	13.46	10.4	0.026
1/2"	69.85	47.75	44.45	28.7	17.53	13.5	0.052
5/8"	89	57.15	60.45	35.05	23.11	16.8	0.145
3/4"	95.25	63.5	68.33	41.4	27.43	19.8	0.2
7/8"	127	88.9	81.03	47.75	32.26	23.88	0.32
1"	169.93	107.95	95.25	63.5	35.3	26.92	0.4
1-1/8"-1-1/4"	158.75	114.3	109.47	69.85	44.45	33.27	0.84
1-3/8"	207	191.5	145	90	48	36	1.36
1-1/2"	225	206	165	105	51.62	39.62	1.42
1-5/8"	248	230	176	110	59	43	1.64
1-3/4"	264	243.5	180	110	62	46	1.94
1-7/8"	283	264	186	114.3	68	52	2.14
2"	289	270	188	114.3	69	53	4.94
2-1/2"	316.3	295.3	252	152	84	64	7.4

## U.S. TYPE G-414 HEAVY DUTY WIRE ROPE THIMBLE



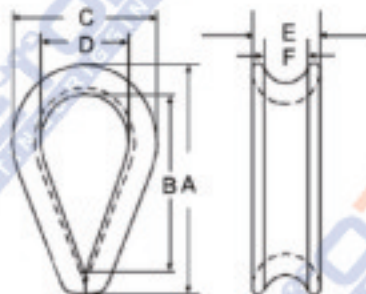
SIZE IN.	DIMENSION(MM)						WEIGHT KG/PC
	A	B	C	D	E	F	
1/8"	49.53	33.53	28.92	17.78	6.35	4	0.012
3/16"	49.53	33.53	28.92	17.78	6.35	4	0.012
1/4"	55.62	41.4	38.1	22.35	10.41	7.11	0.012
5/16"	63.5	47.75	45.97	26.92	12.7	8.64	0.05
3/8"	73.5	54.1	54.1	28.7	16	10.41	0.1
7/16"	82.55	60.45	60.45	31.75	18.29	11.94	0.136
1/2"	92.2	69.85	69.85	38.1	20.57	13.46	0.22
9/16"	92.2	69.85	68.33	38.1	22.35	15	0.22
5/8"	107.95	82.55	79.5	44.45	24.64	16.76	0.32
3/4"	127	92.25	99.77	50.8	31	19.81	0.6
7/8"	139.7	107.95	107.95	57.15	35.05	23.88	0.86
1"	155.7	114.3	125.48	63.5	39.62	26.92	1.06
1-1/8"-1-1/4"	177.8	130.3	149.35	73.15	45.97	33.27	1.54
1-3/8"	230.12	165.1	172.97	88.9	55.63	36.58	3.71
1-1/2"	228.6	158.75	181.1	88.9	65.02	39.62	4.2
1-5/8"	285.75	203.2	208.5	101.6	69.09	43.67	6.25
1-3/4"	309.63	228.6	215.9	114.3	72.14	46.74	7.1
2"	384.3	304.8	263.65	152.4	78.49	53.09	10.44
2-1/4"	435.1	355.6	301.75	177.8	92.2	60.45	18.44
2-1/2"	522	399.1	316.2	187.8	102.6	66.6	26.3

## DIN6899A TYPE WIRE ROPE THIMBLE



SIZE	DIMENSIONS(MM)						WEIGHT
MM	A	B	C	D	E	F	KG/PC
2.5	28	21.5	16	10	5	3	0.14
3	30	23.5	17	11	5.5	3.5	0.35
4	34	26.5	19	12	6	4	0.42
5	36	28	20	13	7	5	0.8
6	38	30	22	14	8	6	0.85
7	43	33	24	15	9	7	1.1
8	46	35	26	16	10	8	1.7
9	50	39	29	18	11	9	2.1
10	56	43	32	20	13	10	3.5
11	60	47.5	36	22	14	11	3.7
12	68	51.5	40	24	15	12	5.25
13	75	56.5	44	26	17	13	7.25
14	82	61	48	28	18	14	8.33
16	91	69.5	54	32	21	16.5	12.3
18	102	78	59	35	24	18	18.5
20	114	86.5	68	40	28	20	31.5
22	126	95	76	44	30	22	36.5
24	135	103.5	84	48	32	24	41.7
28	162	120.5	100	56	38	28	72.1

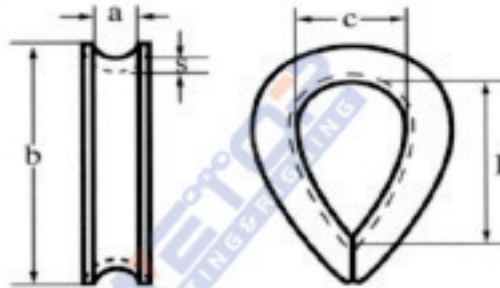
## DIN6899B TYPE WIRE ROPE THIMBLE



SIZE	DIMENSIONS(MM)						WEIGHT
MM	A	B	C	D	E	F	KG/100PCS
3	28	19	18.5	12	6	3	0.5
4	30	21	20.5	13	7	4	0.8
5	33	23	22.5	14	8	5	1
6	39	26	27	16	10	6	1.6
7	43	30	30	18	11	7	1.9
8	48	32	33	20	12	8	3
10	58	38	39	24	14	10	4.7
12	69	45	47	28	17	12	6.8
13	73	48	50	30	18	13	8
14	77	51	53	32	19	14	10
16	88	58	60	36	22	16	14.5
17	95	61	65	38	25	17	18
18	100	64	68	40	26	18	20
20	113	72	75	45	28	20	29
22	123	80	82	50	30	22	32
24	135	90	92	56	34	24	47
26	145	99	100	62	36	26	59
28	162	112	110	70	38	28	80
30	175	120	120	75	42	30	110

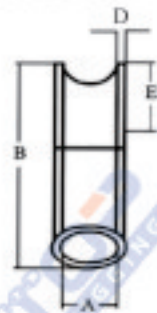


## BRITISH STANDARD WIRE ROPE THIMBLES TO BS 464



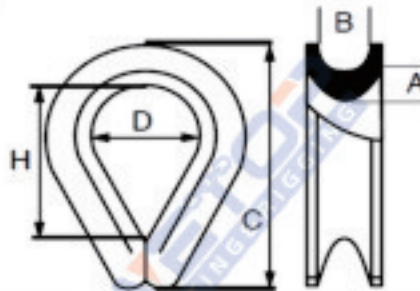
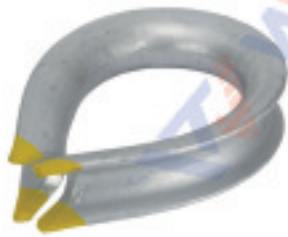
ROPE DIA. MM	GROOVE WIDTH A MM	OVERALL LENGTH B MM	INSIDE LENGTH I MM	INSIDE WIDTH C MM	BACK THICKNESS S MM		WEIGHT PER 100PCS KG
					S	S	
8	8	52	33	23	4	4	6
10	10	64	38	25	5.8	5.8	7.6
12	14	80	44	32	5.6	5.6	18.9
16	16	98	59	41	7.9	7.9	34
19	21	124	73	51	9.5	9.5	62.4
22	22	133	83	57	9.5	9.5	75.6
24	25	146	92	64	10.3	10.3	105.7
26	27	162	108	70	10.3	10.3	124.7
28	29	178	111	76	12.7	12.7	151
32	33	197	133	95	12.7	12.7	204
38	41.3	254	165.1	114.3	17.5	17.5	488
42	42.9	254	165.1	114.3	17.5	17.5	499
45	50.8	285.8	177.8	127	25.4	25.4	585
48	60.3	317.5	190.5	133.4	28.6	28.6	640
51	63.5	330.2	203.2	139.7	28.6	28.6	660
56	66.7	356.6	215.9	148	30.2	30.2	-
63	69.3	412.8	241.3	158.8	31.8	31.8	-
70	85.7	501.6	273	203.2	41.3	41.3	-

## TUBE THIMBLE WITH OR WITHOUT STUD



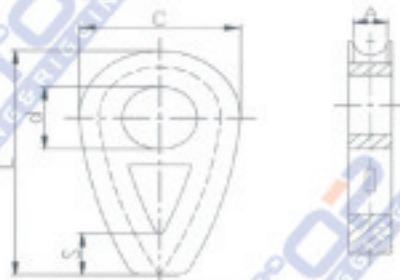
ROPE mm	NO.	SIZE mm				KG/PC
		A	B	C	D	
6	G208	8	80	22	2.5	0.105
8	G210	10	80	22	3	0.125
10	G212	12	90	23	4	0.250
12	G215	15	105	27	5	0.420
14	G217	17	115	27	5	0.550
16	G219	19	120	32	5	0.640
18	G222	22	140	35	5	0.780
22	G225	25	180	45	6	1.550
24	G228	28	180	45	7	2.000
26	G230	30	195	47	7	2.200
32	G235	35	215	60	7	2.600
34	G238	38	220	60	7	3.000
36	G240	40	230	70	7	3.200
38	G245	45	260	70	7	3.600
44	G250	50	280	75	7	4.060
48	G255	55	298	85	7	5.500
56	G264	64	330	100	8	7.000
65	G273	73	350	110	8	8.500

## AUSTRALIAN TYPE WIRE ROPE THIMBLE AS1138



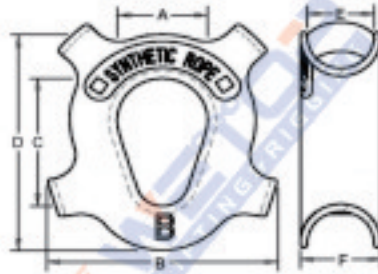
SIZE	Wt.	DIMENSIONS			
mm	kg/pc	A mm	B mm	H mm	D mm
6	0.04	4	7	25	16
8	0.052	5	7.9	33	22
10	0.08	5	10.3	38	25
11	0.09	6	12.7	41	29
12	0.13	6	14.3	44	32
14	0.15	7	15	46	38
16	0.26	8	15.9	59	41
18	0.35	8	18	65	46
19	0.4	9	20.6	73	51
20	0.5	10	21.6	75	52
22	0.62	10	22.2	83	57
24	0.9	11	25.4	92	64
26	1	11	27	111	72
28	1.1	12	28.6	111	76
32	1.3	14	33.4	133	95
36	2.2	16	38	152	105
40	3.2	18	43	165	114
44	5.6	20	47	178	127
48	8.2	22	51	190	134
52	11	22	55	203	140

## SOLID HEAVY DUTY DIN3091 TYPE WIRE ROPE THIMBLE



(mm)	Dimension (mm)					(Kg)
Normal Size	A	C	L	d	S	Weight
8	9	40	66	14	-	0.18
10	11	50	82	18	-	0.32
12	13	60	98	21	-	0.52
14	16	70	114	25	-	0.8
16	18	80	130	28	16	0.9
18	20	90	145	31	16	1.21
20	22	100	161	35	20	1.61
22	24	110	177	38	22	2.11
24	26	120	193	41	24	2.71
26	29	130	209	44	26	3.55
28	31	140	224	47	28	4.2
32	35	160	256	53	32	6.3
36	40	180	288	59	36	8.84
40	44	200	320	65	40	11
44	48	220	352	70	44	15
48	53	240	384	76	48	20
52	57	260	416	81	52	25
56	62	280	448	86	56	32
64	70	320	512	95	64	46
72	79	360	576	104	72	66
80	88	400	640	112	80	90

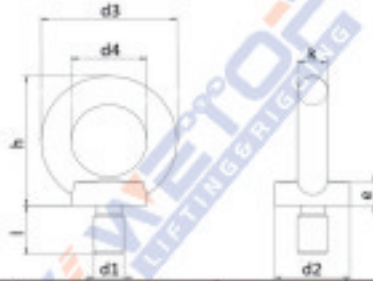
## SYNTHETIC ROPE THIMBLE



Nominal Size of Rope			Dimension(mm)						Weight (kgs)
Cir.(inch)	Dia.(inch)	Dia.(mm)	A	B	C	D	E	F	
3-3 3/4	1-1 13/16	24-30	51	138	89	137	37	40	2.8
4-5	1 1/4-1 1/2	32-45	86	178	130	200	45	47	3.6
6-7	1 7/8-2 1/4	48-56	95	234	146	238	67.4	88	4.9
8	2 1/2	60-66	108	276	165	279	80	96	8
9	2 7/8	68-70	121	295	194	305	83	110	11.8
10	3 1/4	76-80	124	311	216	344	90	120	15
11-12	3 3/8-4	88-96	145	375	242	400	117	150	20
13-14	4 1/4-4 5/8	108-118	155	413	252	430	135	170	26
15-16	5-5 1/4	127-134	165	442	266	458	147	184	31
17-18	5 3/8-5 3/4	137-146	228	538	334	511	164	199	62
19-20	6-6 3/8	154-162	305	681	413	686	197	231	105
21-22	6 3/4-7	170-178	352	773	502	857	218	260	163

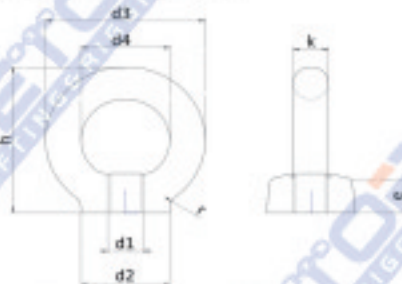
# EYE BOLTS AND EYE NUTS

## DIN580 DROP FORGED EYE BOLT



SIZE(d1)	d2	d3	d4	e	h	k	l	WEIGHT	WLL
	MM	MM	MM	MM	MM	MM	MM	KG/PC	TON
M6	20	36	20	6	36	8	13	0.06	0.08
M8	20	36	20	6	36	8	13	0.06	0.14
M10	25	45	25	8	45	10	17	0.11	0.23
M12	30	54	30	10	53	12	20,5	0.18	0.34
M14	35	63	35	12	62	14	27	0.28	0.34
M16	35	63	35	12	62	14	27	0.28	0.7
M18	40	72	40	14	71	16	30	0.45	0.7
M20	40	72	40	14	71	16	30	0.45	1.2
M22	50	90	50	18	90	20	36	0.87	1.2
M24	50	90	50	18	90	20	36	0.87	1.8
M27	65	108	60	22	109	24	45	1.66	1.8
M30	65	108	60	22	109	24	45	1.66	3.2
M33	75	126	70	26	128	28	54	2.85	3.2
M36	75	126	70	26	128	28	54	2.85	4.6
M39	85	144	80	30	147	32	63	4.03	4.6
M42	85	144	80	30	147	32	63	4.03	6.3
M45	100	168	90	35	168	38	68	6.38	6.3
M48	100	168	90	35	168	38	68	6.38	8.6
M52	110	184	100	38	187	42	78	8.8	8.6
M56	110	184	100	38	187	42	78	8.8	11.5
M64	120	206	110	42	208	48	90	12.4	16
M72X6	150	260	140	50	260	60	100	23.3	20
M80X6	170	296	160	55	298	68	112	34.2	28
M100X6	190	330	180	60	330	75	130	49.1	40

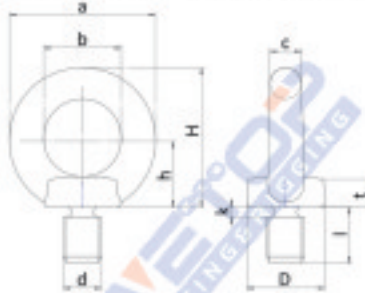
## DIN582 DROP FORGED EYE NUT



SIZE(d1)	d2	d3	d4	e	h	k	r	WEIGHT	WLL
	MM	MM	MM	MM	MM	MM	MM	KG/PC	TON
M6	20	36	20	8.5	36	8	4	0.05	0.08
M8	20	36	20	8.5	36	8	4	0.05	0.14
M10	25	45	25	10	45	10	4	0.09	0.23
M12	30	54	30	11	53	12	6	0.16	0.34
M14	35	63	35	13	62	14	6	0.24	0.34
M16	35	63	35	13	62	14	6	0.24	0.7
M18	40	72	40	16	71	16	8	0.36	0.7
M20	40	72	40	16	71	16	8	0.36	1.2
M22	50	90	50	20	90	20	12	0.72	1.2
M24	50	90	50	20	90	20	12	0.72	1.8
M27	65	108	60	25	109	24	15	1.32	1.8
M30	65	108	60	25	109	24	15	1.32	3.2
M33	75	126	70	30	128	28	18	2.08	3.2
M36	75	126	70	30	128	28	18	2.08	4.6
M39	85	144	80	35	147	32	20	3.11	4.6
M42	85	144	80	35	147	32	20	3.11	6.3
M45	100	168	90	40	168	38	22	5.02	6.3
M48	100	168	90	40	168	38	22	5.02	8.6
M52	110	184	100	45	187	42	25	6.89	8.6
M56	110	184	100	45	187	42	25	6.89	11.5
M64	120	206	110	50	208	48	25	9.3	16
M72X6	150	260	140	60	260	60	35	18.5	20
M80X6	170	296	160	70	298	68	35	27.3	28
M100X6	190	330	180	80	330	75	40	36.4	40

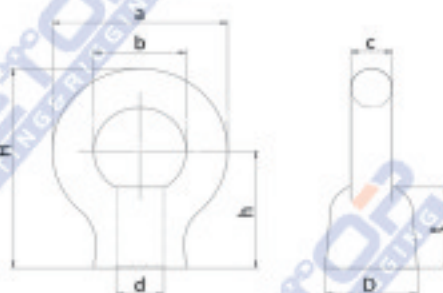


## JIS B 1168 TYPE DROP FORGED EYE BOLT



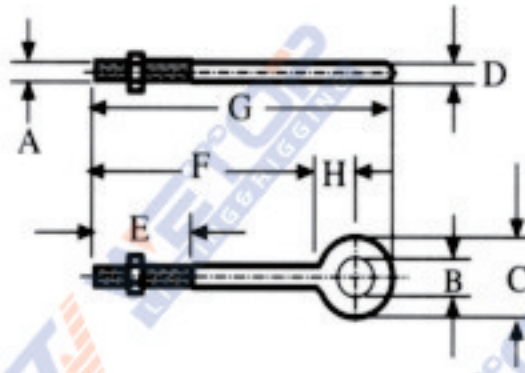
SIZE(d)	a	b	c	D	t	h	H	I	e	k	SWL		WEIGHT
	MM	MM	MM	MM	MM	MM	MM	MM	MM	MM	kg	kN	KG/PC
M5	26	16	5	13	4.9	13.5	26.5	12.5	3	1	40	0.392	0.014
M6	26	16	5	13	4.9	13.5	26.5	12.5	3	1	60	0.588	0.015
M8	32.6	20	6.3	16	6	17	33.3	15	3	1.2	80	0.785	0.03
M10	41	25	8	20	7	21	41.5	18	4	1.5	150	1.47	0.06
M12	50	30	10	25	9	26	51	22	5	2	220	2.16	0.12
M14	60	35	12.5	30	11	30	60	27	5	2	330	3.23	0.2
M16	60	35	12.5	30	11	30	60	27	5	2	490	4.41	0.22
M18	72	40	16	35	13	35	71	30	6	2.5	540	5.29	0.37
M20	72	40	16	35	13	35	71	30	6	2.5	630	6.18	0.4
M22	81	45	18	40	15	40	80.5	35	7	2.5	790	7.74	0.57
M24	90	50	20	45	18	45	90	38	8	3	950	9.32	0.8
M27	110	60	25	60	22	55	110	45	8	3	1200	11.7	1.5
M30	110	60	25	60	22	55	110	45	8	3.5	1500	14.7	1.54
M33	110	60	25	60	22	55	110	45	8	4	1900	18.6	1.59
M36	133	70	31.5	70	26	65	131.5	55	10	4	2300	22.6	2.83
M39	133	70	31.5	70	26	65	131.5	55	10	4	2850	27.9	2.9
M42	151	80	35.5	80	30	75	150.5	65	12	4.5	3400	33.3	4.1
M45	151	80	35.5	80	30	75	150.5	65	12	4.5	3950	38.7	4.34
M48	170	90	40	90	35	85	170	70	12	5	4500	44.1	5.88
M52	170	90	40	90	35	85	170	70	12	5	5600	54.9	6.16
M56	210	110	50	110	42	105	210	80	14	5	6750	66.2	10.85
M64	210	110	50	110	42	105	210	80	14	6	9000	88.3	11.6

## JIS B 1169 TYPE DROP FORGED EYE NUT



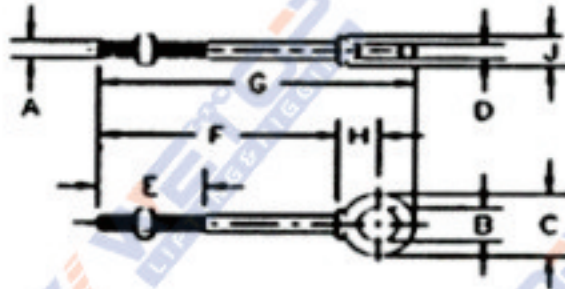
SIZE	a	b	c	D	t	h	H	SWL		WEIGHT
	MM	MM	MM	MM	MM	MM	MM	kg	kN	KG/PC
M6	26	16	5	13	10	19	32.5	60	0.588	0.015
M8	32.6	20	6.3	16	12	23	39.3	80	0.785	0.03
M10	41	25	8	20	15	28	48.5	150	1.47	0.06
M12	50	30	10	25	19	36	61	220	2.16	0.125
M14	60	35	12.5	30	23	42	72	330	3.23	0.23
M16	60	35	12.5	30	23	42	72	450	4.41	0.22
M18	72	40	16	35	28	50	86	540	5.29	0.39
M20	72	40	16	35	28	50	86	630	6.18	0.38
M22	81	45	18	40	33	58	98.5	790	7.74	0.56
M24	90	50	20	45	38	66	111	950	9.32	0.8
M27	110	60	25	60	46	80	135	1200	11.7	1.62
M30	110	60	25	60	46	80	135	1500	14.7	1.58
M33	110	60	25	60	46	80	135	1900	18.6	1.51
M36	133	70	31.5	70	55	95	161.5	2300	22.6	2.75
M42	151	80	35.5	80	64	109	184.5	3400	33.3	4.1
M48	170	90	40	90	73	123	208	4500	44.1	5.9
M64	210	110	50	110	90	151	256	9000	88.3	10.5

## G291 DROP FORGED REGULAR EYE BOLT



SIZE	WLL	WEIGHT	DIMENSIONS(IN.)							
IN.	LBS	LBS/100PCS	A	B	C	D	E	F	G	H
1/4" X 2"	650	8.2	0.25	0.5	1	0.25	1.5	2	3.06	0.56
1/4" X 4"	650	11.7	0.25	0.5	1	0.25	2.5	4	5.06	0.56
5/16" X 2 1/4"	1200	13.3	0.31	0.62	1.25	0.31	1.5	2.25	3.56	0.69
5/16" X 4 1/4"	1200	25	0.31	0.62	1.25	0.31	2.5	4.25	5.56	0.69
3/8" X 2 1/2"	1550	23.3	0.38	0.75	1.5	0.38	1.5	2.5	4.12	0.88
3/8" X 4 1/2"	1550	29.5	0.38	0.75	1.5	0.38	2.5	4.5	6.12	0.88
3/8" X 6"	1550	35.2	0.38	0.75	1.5	0.38	2.5	6	7.62	0.88
1/2" X 3 1/4"	2600	50.3	0.5	1	2	0.5	1.5	3.25	5.38	1.12
1/2" X 6"	2600	66.1	0.5	1	2	0.5	3	6	8.12	1.12
1/2" X 8"	2600	82	0.5	1	2	0.5	3	8	10.12	1.12
1/2" X 10"	2600	88	0.5	1	2	0.5	3	10	12.12	1.12
1/2" X 12"	2600	114.2	0.5	1	2	0.5	3	12	14.12	1.12
5/8" X 4"	5200	103.1	0.62	1.25	2.5	0.62	2	4	6.69	1.44
5/8" X 6"	5200	118.2	0.62	1.25	2.5	0.62	3	6	8.69	1.44
5/8" X 8"	5200	135.1	0.62	1.25	2.5	0.62	3	8	10.69	1.44
5/8" X 10"	5200	153.6	0.62	1.25	2.5	0.62	3	10	12.69	1.44
5/8" X 12"	5200	167.1	0.62	1.25	2.5	0.62	4	12	14.69	1.44
1/4" X 4 1/2"	7200	168.6	0.75	1.5	3	0.75	2	4.5	7.69	1.69
3/4" X 6"	7200	184.5	0.75	1.5	3	0.75	3	6	9.19	1.69
3/4" X 8"	7200	207.9	0.75	1.5	3	0.75	3	8	11.19	1.69
3/4" X 10"	7200	235	0.75	1.5	3	0.75	3	10	13.19	1.69
3/4" X 12"	7200	257.5	0.75	1.5	3	0.75	4	12	15.19	1.69
3/4" X 15"	7200	298	0.75	1.5	3	0.75	5	15	18.19	1.69
7/8" X 5"	10600	270	0.88	1.75	3.5	0.88	2.5	5	8.75	2
7/8" X 8"	10600	308	0.88	1.75	3.5	0.88	4	8	11.75	2
7/8" X 12"	10600	400	0.88	1.75	3.5	0.88	4	12	15.75	2
1" X 6"	13300	421	1	2	4	1	3	6	10.31	2.31
1" X 9"	13300	468.5	1	2	4	1	4	9	13.31	2.31
1" X 12"	13300	540	1	2	4	1	4	12	16.31	2.31
1" X 18"	13300	650	1	2	4	1	7	18	22.31	2.31
1 1/4" X 8"	21000	750	1.25	2.5	5	1.25	4	8	13.38	2.88
1 1/4" X 12"	21000	900	1.25	2.5	5	1.25	4	12	17.38	2.88
1 1/4" X 20"	21000	1210	1.25	2.5	5	1.25	6	20	25.38	2.88

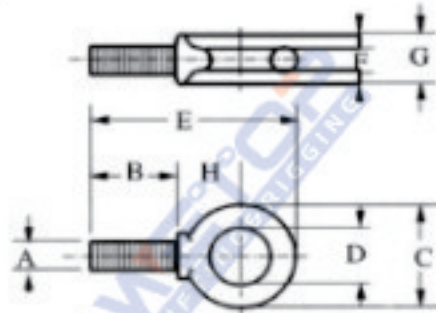
## G277 DROP FORGED SHOULDER EYE BOLT



SHANK DIA. AND LENGTH (IN.)	W.L.L. (LBS.)	WEIGHT PER 100PCS (LBS.)	DIMENSIONS(IN.)								
			A	B	C	D	E	F	G	H	J
1/4"x2"	650	6.60	0.25	0.50	0.88	0.19	1.50	2.00	2.94	0.50	0.47
1/4"x4"	650	9.10	0.25	0.50	0.88	0.19	2.50	4.00	4.94	0.50	0.47
5/16"x2-1/4"	1200	12.50	0.31	0.62	1.12	0.25	1.50	2.25	3.50	0.69	0.56
5/16"x4-1/4"	1200	18.80	0.31	0.62	1.12	0.25	2.50	4.25	5.50	0.69	0.56
3/8"x2-1/2"	1550	21.40	0.38	0.75	1.38	0.31	1.50	2.50	3.97	0.78	0.66
3/8"x4-1/2"	1550	25.30	0.38	0.75	1.38	0.31	2.50	4.50	5.97	0.78	0.66
1/2"x3-1/4"	2600	42.60	0.50	1.00	1.75	0.38	1.50	3.25	5.12	1.00	0.91
1/2"x6"	2600	56.80	0.50	1.00	1.75	0.38	3.00	6.00	7.88	1.00	0.91
5/8"x4"	5200	68.60	0.62	1.25	2.25	0.50	2.00	4.00	6.44	1.31	1.12
5/8"x6"	5200	102.40	0.62	1.25	2.25	0.50	3.00	6.00	8.44	1.31	1.12
3/4"x4-1/2"	7200	144.50	0.75	1.50	2.75	0.62	2.00	4.50	7.44	1.56	1.38
3/4"x6"	7200	167.50	0.75	1.50	2.75	0.62	3.00	6.00	8.94	1.56	1.38
7/8"x5"	10600	225.00	0.88	1.75	3.25	0.75	2.50	5.00	8.47	1.84	1.56
1"x6"	13300	366.30	1.00	2.00	3.75	0.88	3.00	6.00	9.97	2.09	1.81
1"x9"	13300	422.50	1.00	2.00	3.75	0.88	4.00	9.00	12.97	2.09	1.81
1-1/4"x8"	21000	650.00	0.25	2.50	4.50	1.00	4.00	8.00	12.72	2.47	2.28
1-1/4"x12"	21000	795.00	1.25	2.50	4.50	1.00	4.00	12.00	16.72	2.47	2.28
1-1/2"x15"	24000	1425.00	0.50	3.00	5.50	1.25	6.00	15.00	20.75	3.00	2.75

- ★ MAXIMUM PROOF LOAD IS 2 TIMES WLL.
- ★ MINIMUM BREAKING LOAD IS 5 TIMES THE WLL.

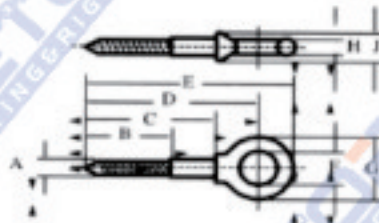
## S279 DROP FORGED SHOULDER TYRE MACHINERY EYE BOLT



SIZE (IN.)	WLL (LBS.)	WEIGHT PER 100PCS (LBS.)	DIMENSIONS(IN.)							
			A	B	C	D	E	F	G	H
1/4x1	650	5.10	0.25	1.00	0.88	0.50	1.94	0.19	0.47	0.50
5/16x1-1/8	1200	6.20	0.31	1.13	1.12	0.62	2.38	0.25	0.56	0.69
1/8x1-1/4	1550	12.50	0.38	1.25	1.38	0.75	2.72	0.31	0.66	0.78
1/2x1-1/2	2600	25.00	0.50	1.50	1.75	1.00	3.38	0.38	0.91	1.00
5/8x1-3/4	5200	50.00	0.63	1.75	2.25	1.25	4.19	0.50	1.12	1.31
3/4x2	7200	87.50	0.75	2.00	2.75	1.50	4.94	0.62	1.38	1.56
7/8x2-1/4	10600	157.20	0.88	2.25	3.25	1.75	5.72	0.75	1.56	1.84
1x2-1/2	13300	218.00	1.00	2.50	3.75	2.00	6.47	0.88	1.81	2.09
1-1/4x3	21000	380.00	1.25	3.00	4.50	2.50	7.72	1.00	2.28	2.47
1-1/2x3-1/2	24000	700.00	1.50	3.50	5.50	3.00	9.25	1.25	2.75	3.00

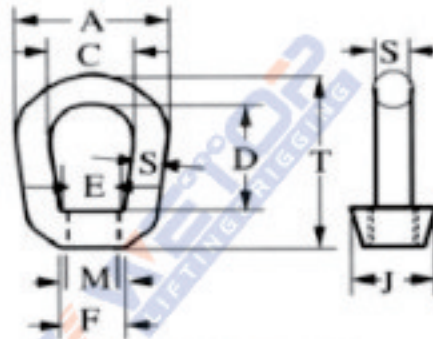
- ★ MAXIMUM PROOF LOAD IS 2 TIMES WLL.
- ★ MINIMUM BREAKING LOAD IS 5 TIMES THE WLL.

## G275 DROP FORGED SCREW EYE BOLT



SHANK DIA. AND LENGTH (IN.)	WEIGHT PER 100PCS (LBS.)	DIMENSIONS(IN.)								
		A	B	C	D	E	F	G	H	J
1/4x2	4.30	0.25	1.50	2.00	2.50	2.94	0.50	0.88	0.19	0.47
5/16x2-1/4	9.90	0.31	1.69	2.25	2.94	3.50	0.63	1.13	0.25	0.56
3/8x2-1/2	18.88	0.38	1.88	2.50	3.28	3.97	0.75	1.38	0.31	0.66
1/2x3-1/4	37.50	0.50	2.44	3.25	4.25	5.12	1.00	1.75	0.38	0.91
5/8x4	85.50	0.63	3.00	4.00	5.31	6.44	1.25	2.25	0.50	1.12

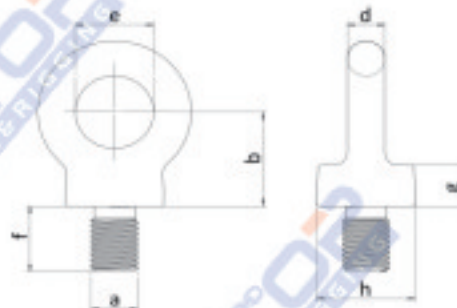
## G400 DROP FORGED EYE NUT



SIZE No.	"S" STOCK SIZE (IN.)	STD. TAP SIZE	MAX. TAP SIZE	WLL (LBS.)	WEIGHT EACH (LBS.)	DIMENSIONS (IN.)							
						A	C	D	E	F	J	M	T
1	0.25	1/4	3/8	520	0.09	1.25	0.75	1.06	0.66	0.50	0.69	0.25	1.69
2	0.31	3/8	7/16	1250	0.18	1.63	1.00	1.25	0.75	0.56	0.81	0.38	2.06
3A	0.38	1/2	1/2	2250	0.28	2.00	1.25	1.50	1.00	0.81	1.00	0.50	2.50
4	0.50	5/8	3/4	3600	0.58	2.50	1.50	2.00	1.19	1.00	1.31	0.63	3.19
5	0.63	3/4	7/8	5200	1.00	3.00	1.75	2.38	1.38	1.13	1.50	0.75	3.88
6	0.75	7/8	1	7200	1.70	3.50	2.00	2.63	1.63	1.31	1.88	0.88	4.31
7	0.88	1	1-1/4	10000	2.75	4.00	2.25	3.08	1.88	1.56	2.13	1.00	5.00
8	1.00	1-1/4	1-1/2	15500	3.85	4.50	2.50	3.50	1.94	1.88	2.38	1.25	5.75
9	1.13	1-3/8	1-1/2	18500	5.00	5.00	2.75	3.75	2.00	2.00	2.56	1.38	6.25
10	1.25	1-1/2	1-3/4	22500	6.70	5.63	3.13	4.00	2.38	2.25	3.00	1.50	6.75
11	1.50	2	2-3/4	40000	18.70	7.00	4.00	6.25	4.00	3.38	4.00	2.00	10.00

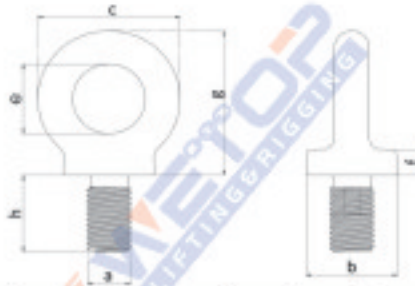
★ MINIMUM BREAKING LOAD IS 5 TIMES THE WLL. RATING BASED ON STANDARD TAP SIZE.

## BS529 COLLARED EYE BOLT



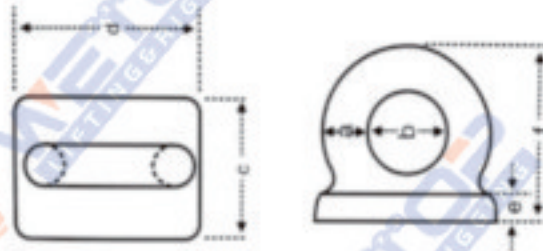
SIZE	b	d	e	f	g	h	SWL
IN.	MM	MM	MM	MM	MM	MM	TON
3/8"	21	7	14	9	19	17	0.25
1/2"	28	10	19	11	25	22	0.5
5/8"	36	12	24	14	32	28	0.9
3/4"	43	14	28	17	38	33	1.4
7/8"	50	17	33	20	44	39	2
1"	57	19	38	22	51	44	2.75
1-1/8"	64	21	42	25	57	50	3.5
1-1/4"	71	24	48	28	64	55	4.5
1-1/2"	85	28	57	33	76	67	6.5
1-3/4"	101	33	67	39	89	77	9
2"	115	38	76	44	102	89	12
2-1/4"	128	42	85	50	115	101	15
2-1/2"	143	48	95	55	127	111	20
3"	172	57	115	67	152	133	30

## BS4278 COLLARED EYE BOLT



SIZE	b	c	e	f	g	h	SWL	WEIGHT
MM	MM	MM	MM	MM	MM	MM	TON	KG/PC
6	22	33	15	7	36	18	0.1	0.06
8	22	33	15	7	36	18	0.15	0.06
10	22	33	15	7	36	18	0.25	0.06
12	22	33	15	7	36	18	0.4	0.06
14	29	44	20	10	48	23	0.5	0.15
16	29	44	20	10	48	23	0.8	0.15
18	36	52	24	12	58	28	1	0.27
20	40	59	27	14	65	32	1.6	0.38
22	45	64	30	14	73	35	1.6	0.54
24	52	77	35	17	84	40	2.5	0.85
27	58	85	39	20	94	46	2.5	1.13
30	65	96	44	22	106	51	4	1.62
33	72	106	48	24	117	56	4	2.37
36	81	118	54	27	131	63	6.3	3.12
39	86	123	57	29	137	67	6.3	3.81
42	101	148	68	34	164	79	8	6.27
45	101	148	68	34	164	79	8	6.45
48	101	148	68	34	164	79	10	6.51
52	115	168	76	38	186	89	12.5	9.58
56	128	188	86	43	208	100	16	12.99
64	144	212	96	48	234	112	20	18.2

## RECTANGULAR BASE EYE PLATE



SIZE	SIZE	b	c	d	e	f	PROOF LOAD	WEIGHT
IN.	MM	MM	MM	MM	MM	MM	TON	KG/PC
3/8"	10	20	25	45	6	38	2	0.14
1/2"	12	25	35	60	8	50	3.5	0.33
5/8"	16	32	45	70	10	64	5.5	0.53
3/4"	19	38	50	85	12	78	7.5	0.77
7/8"	22	42	60	102	13	89	9.6	1.27
1"	25	50	70	115	16	100	13	2
1 1/8"	28	57	76	130	18	114	15.75	2.9
1 1/4"	32	64	85	145	19	128	20	3.44
1 3/8"	35	70	95	159	21	140	23.63	5.11
1 1/2"	38	76	100	170	22	152	29	6.58
1 3/4"	44	88	120	200	26	178	39	9.99
2"	50	100	140	230	30	203	50	14.98

# HOOKS

## S-320 LIFTING EYE HOOK



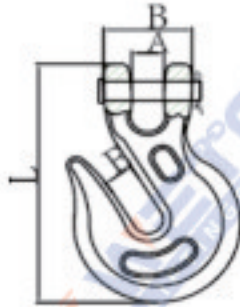
WLL(TON)		DIMENSIONS(MM)						WEIGHT
CARBON	ALLOY	D	E	H	K	M	L	KG/PC
1/2	3/4	16.5	19	17	72	16	97	0.21
3/4	1	19	22	19	82	16	110	0.28
1	1-1/2	23	23	21	93.5	17.5	125	0.4
1-1/2	2	28	24	26	103	21	140.5	0.65
2	3	31	27.5	28	119	23	162	0.81
3	5	39	33	37	146	30	201	1.75
5	7	51	40	46.5	186.5	38	256	3.77
7-1/2	11	62	51	57	231.5	46	317	6.8
10	15	73	57	70	260	55	360	9.96
15	22	89	75	76	318	68.5	434	15.33
20	30	90	82	91	360	70	495.5	27.2

## S-322 SWIVEL HOOK



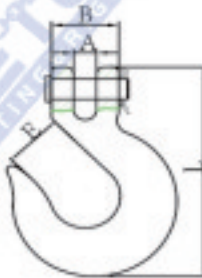
WLL(TON)		DIMENSIONS(IN.)							WEIGHT
CARBON	ALLOY	A	E	B	H	K	L	M	KG/PC
1/2	3/4	31.5	17	22.5	9	110	137	15	0.3
3/4	1	32	17	22.5	9	108.3	137	16	0.34
1	1-1/2	37.5	22.5	29.5	12	133.5	163	16	0.57
1-1/2	2	42.5	26	33	15.8	150.5	192	17.5	1.02
2	3	42.5	26	33	15.8	163	209	23	1.24
3	5	48	32.5	39	18	191	246	31	2.25
5	7	64	43	53	25	243.5	313	34	4.66
7-1/2	11	70	49.5	53	28.5	277	364	41.5	7.4
10	15	79	54.5	62	32	332	431	55.7	10.6
15	22	105	81	108	40	427	543	70	21.4
20	30	105	100	96	40	465	596	76.2	32

## CLEVIS GRAB HOOK H330/A330



SIZE IN.	WLL(LBS)		DIMENSIONS(MM)				WEIGHT LBS/PC
	CARBON	ALLOY	A	B	E	L	
1/4"	2600	3150	8.5	25	9.2	78.5	0.36
5/16"	3900	4700	10	30.5	11	93	0.62
3/8"	5400	6600	13	35	12.7	114.5	1
7/16"	7200	8750	17	42	14.5	126	1.5
1/2"	9200	11300	19	47	17	144	2.22
5/8"	13000	15800	23	56	20	177	4.41
3/4"	20200	24700	24	66.5	24	207.5	6.5

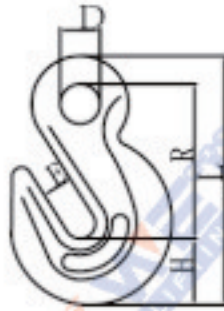
## CLEVIS SLIP HOOK H331/A331



SIZE IN.	WLL(LBS)		DIMENSIONS(MM)				WEIGHT LBS/PC
	CARBON	ALLOY	A	B	L	E	
1/4"	2600	3150	11	27	100	23.5	0.55
5/16"	3900	4700	12.5	33	114	25.5	0.82
3/8"	5400	6600	15	39	132	32	1.21
7/16"	7200	8750	17	44	147	40	2.09
1/2"	9200	11300	19	48	166	42.5	2.99
5/8"	13000	15800	18.5	58.7	200	51	4.85
3/4"	20200	24700	30	81	257	64.5	11.28

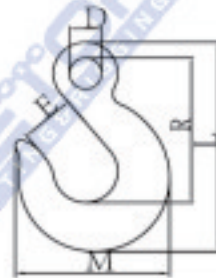


## EYE GRAB HOOK H323/A323



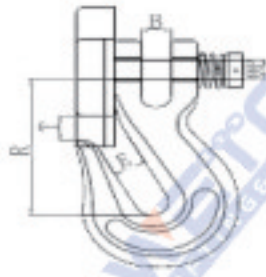
SIZE IN.	WLL(LBS)		DIMENSIONS(MM)					WEIGHT LBS/PC
	CARBON	ALLOY	R	H	D	E	L	
1/4"	2600	3150	50.5	18.5	13	9	77	0.28
5/16"	3900	4700	56.8	22.7	14	11.5	89	0.45
3/8"	5400	6600	65.2	28.3	17	13	104	0.79
7/16"	7200	8750	77	33.5	20	15.5	122	1.26
1/2"	9200	11300	85.5	37.5	22	17	135	1.75
5/8"	13000	15800	116	45	30	21	180	3.25
3/4"	20200	24700	133.5	55	35	25	211	5.94

## EYE SLIP HOOK H324/A324



SIZE IN.	WLL(LBS)		DIMENSIONS(MM)					WEIGHT LBS/PC
	CARBON	ALLOY	D	R	L	M	E	
1/4"	2600	3150	12.7	65	92	68.50	23	0.40
5/16"	3900	4700	16	72.5	106	76.00	26	0.64
3/8"	5400	6600	18	86.5	124	89.50	33	1.11
7/16"	7200	8750	20.5	98.5	142	108.00	40	1.56
1/2"	9200	11300	23	109.5	156	116.50	43	2.10
5/8"	13000	15800	28.8	132.5	195	143.00	52	3.90
3/4"	20200	24700	35	147.5	222	169.00	55	6.93

## SAFETY CLEVIS GRAB HOOK WLTH LATCH



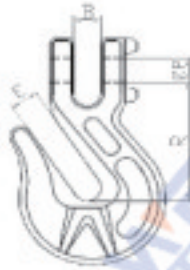
Size Of Chain		Dimensions ( mm )					W.L.L. ( T )		Weight (KG)
in	mm	B	E	P	R	T	Carbon	Alloy	
1/4	6	9.1	10.0	9.5	50.0	10.0	1.18	1.63	0.28
5/16	8	10.3	11.3	11.0	56.0	12.0	1.77	2.45	0.43
3/8	10	12.0	12.7	12.0	66.7	10.5	2.45	3.40	0.60
1/2	13	17.0	17.0	16.0	83.5	17.8	4.17	5.78	1.18
5/8	16	23.1	19.8	19.0	105.0	20.4	5.78	8.62	2.12

## DIN689 EYE HOOK WITH LATCH



ITEM NO.	WEIGHT (kg)	SWL (KG)	Ø±0.5	B±1	C±1.2	D±0.5	E±2
250KG	0.15	250	12	54	18	7.25	88.1
500KG	0.32	500	16	70	23	10	117
1000KG	0.84	1000	20	98	34	13	160
1600KG	1.3	1600	22	111	37	16	186
2500KG	2.55	2500	25	145	48	20	233

## AUSTRILIAN TYPE CLEVIS SHORTENING GRAB HOOK



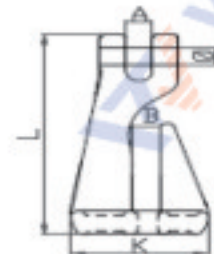
SIZE		Dimensions ( mm )				W.L.L ( T )	Weight (KG)
in	mm	B	E	P	R		
1/4	6	8.0	8.8	7.9	45.0	1	0.20
5/16	6	10.0	10.5	9.6	49.6	2	0.36
3/8	10	13.5	13.0	11.8	65.0	3	0.60
1/2	13	17.0	17.0	16.0	83.0	5	1.09

## AUSTRILIAN TYPE EYE CRADLE HOOK



Size		Dimensions ( mm )				W.L.L ( T )	Weight (KG)
in	mm	A	B	C	D		
1/4	6	9.4	14.0	82.8	9.0	1	0.21
5/16	8	10.8	18.0	107.5	11.0	2	0.47
3/8	10	13.3	21.7	116.5	12.0	3	0.55
1/2	13	17.0	26.6	149.5	16.2	5	1.31

## CLEVIS GRAB BEND HOOK



Size		Dimensions ( mm )					M.B.S ( T )	Weight (KG)
in	mm	A	L	B	K	Ø		
5/16	8	11.0	120.5	11.8	58.0	12.0	4.54	0.45

## EYE BEND HOOK



Size		Dimensions ( mm )				M.B.S ( T )	Weight ( KG )
in	mm	A	K	L	O		
5/16	8	10.2	58.1	77.9	12.5	4.54	0.37
3/8	10	12.8	67.2	120.0	21.7	16	0.63

## G-3315 SNAP HOOKS



Size		Dimensions ( mm )			W.L.L. ( T )	Weight ( KG )
in	mm	L	W	Ø		
7/16	11	82.5	19.5	19.0	0.34	0.11
9/16	14	97.5	20.0	28.5	0.45	0.23

## CLEVIS J HOOK



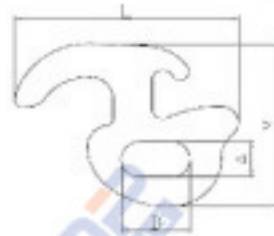
Size		Dimensions ( mm )				W.L.L. ( T )	Weight ( KG )
in	mm	A	B	C	D		
8	202	210.0	12.4	12.7	25.5	2.11	1.24
15	381	368.8	12.4	12.7	23.7	2.11	1.50

## J TYPE HOOK WITH ELLIPSE HOLE



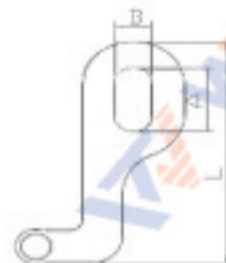
Size		Dimensions ( mm )				W.L.L ( T )	Weight (KG)
in	mm	A	B	R	V		
8	202	32.0	19.5	162.0	146.0	2.45	1.5
15	380	32.0	19.5	318.2	157.3	2.45	2.0

## “R” TYPE HOOK



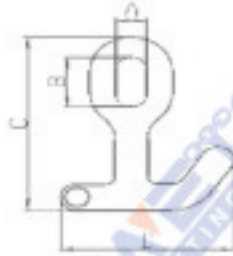
Size		Dimensions ( mm )				M.B.S ( T )		Weight (KG)
in	mm	A	B	L	M	Carbon	Alloy	
5/16	8	14.4	26.0	85.2	66.9	5.3	8.5	0.30

## “T” TYPE HOOK



Size		Dimensions ( mm )			M.B.S ( T )		Weight (KG)
in	mm	A	B	L	Carbon	Alloy	
5/16	8	29.0	14.5	101.0	7.1	8.5	0.28

## "T-J" TYPE HOOK



Size		Dimensions ( mm )				M.B.S ( T )		Weight (KG)
in	mm	A	B	C	D	Carbon	Alloy	
5/16	8	14.5	29.0	101.8	82.7	5.1	7.1	0.35

## SMALL J HOOK



Size		Dimensions ( mm )		M.B.S ( T )	Weight (KG)
in	mm	L	B		
5/16-3/8	7-8	105.2	14.5	8.5	0.32

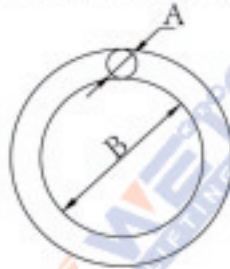
## CLUSTER HOOK RTJ



Product Name	Dimensions ( mm )			M.B.S ( T )	Weight (KG)
	A	B	Ø		
R hook	74.0	32.0	11.0	5.3	1.03
T hook					
J hook					
Link					

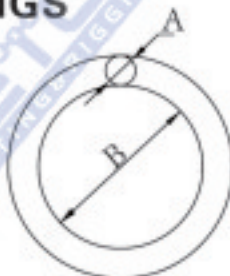
# RINGS AND LINKS

## DROP FORGED WELDLESS ROUND RINGS



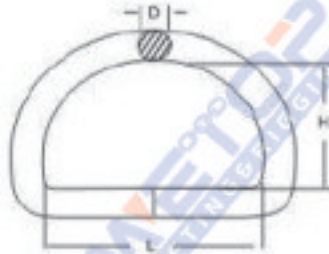
SIZE IN.	WEIGHT KG/PC	WIL TON	BL TON	A MM	B MM
3/8"×2"	0.11	0.5	3	10	50
1/2"×2"	0.21	1	6	13	50
5/8"×3"	0.46	1.5	9	16	76
5/8"×3-5/16"	0.5	1.5	9	16	84
3/4"×3"	0.67	2.3	13.8	19	76
3/4"×4"	0.84	2.5	15	19	102
7/8"×4"	1.2	3.3	19.8	22	102
7/8"×5-1/2"	1.55	2.5	15	22	140
1"×4"	1.59	4.9	29.4	25	102
1"×5-1/2"	2.1	4.9	29.4	25	140
1-1/8"×6"	2.87	4.7	28.2	28	152
1-1/4"×5"	3.1	7.7	46.2	32	127
1-1/4"×6"	3.6	7.7	46.2	32	152
1-1/4"×10"	5.6	7.7	46.2	32	254
1-3/8"×6"	4.5	8.6	51.6	35	152
1-1/2"×8"	6.8	11.3	67.8	38	203
1-1/2"×8-3/4"	7.32	11.3	67.8	38	222
1-1/2"×10"	8.22	11.3	67.8	38	254
1-1/2"×12"	17.8	15.9	95.4	38	305

## WELDED ROUND RINGS



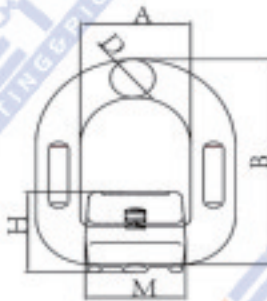
SIZE MM	A MM	B MM	WEIGHT KG/100PCS
3×25	3	25	0.5
4×25	4	25	0.91
4×30	4	30	1.07
4×40	4	40	1.39
5×30	5	30	1.73
5×40	5	40	2.23
5×50	5	50	2.58
6×30	6	30	2.72
6×40	6	40	3.27
6×50	6	50	3.99
6×60	6	60	4.69
7×35	7	35	4.2
8×40	8	40	6.06
8×50	8	50	7.32
10×50	10	50	11.85
10×70	10	70	15.8

## WELDED D RING



SIZE mm	D mm	H mm	L mm	N.W. g/pcs
3x25	3	20	25	5.5
4x25	4	25	25	9.7
4x30	4	25	30	11.3
4x40	4	30	40	14.5
5x30	5	40	30	17.3
5x40	5	30	40	22.5
5x50	5	32	50	26.8
6x30	6	35	30	27.2
6x40	6	40	40	34
6x50	6	50	50	42
6x60	6	30	60	48
8x40	8	40	40	63
8x50	8	45	50	75
10x50	10	40	50	108

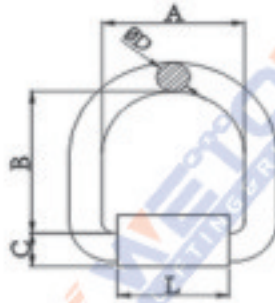
## G80 WELD ON D RING



SIZE TON	WEIGHT KG/PC	WLL TON	A MM	B MM	D MM	M MM	H MM
1T	0.4	1.12	41	78.5	13	37	35
2T	0.47	2	42	88	14	40	37
3T	0.69	3.15	45	94	17	42.5	40
5T	1.46	5.3	55	118	22	61	52
8T	2.5	8	70	141	26.5	70.5	57
15T	5.79	15	97	188	34	90	77



## D RINGS WITH WRAP



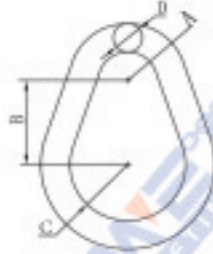
SIZE	WEIGHT	B.L	A	B	C	D	L
IN.	KG/PC	TON	MM	MM	MM	MM	MM
1/2"	0.43	5.4	57.2	63.5	16	13	45
5/8"	0.85	8.2	76.2	76.2	22	16	63
3/4"	1.25	12	76.2	76.2	25.4	19	63
1"	1.91	21.3	76.2	76.2	30.8	25.4	64
1"	2.15	21.3	76.2	101.6	30.8	25.4	64

## FORGED D RING WITH STRAP



SIZE	A	B	C	D	E	WEIGHT	MBS
MM	MM	MM	MM	MM	MM	KG/PC	TON
21	136	80	120	21	25.5	2.46	36
25	144	88	125	25	30	3.7	41
27	151	90	130	27	50	4.41	50

## DROP FORGED PEAR SHAPED LINK



SIZE IN.	WEIGHT KG/PC	WIL TON	BL TON	A MM	B MM	C MM	D MM
3/8"	0.1	1.6	8	10	28.5	19	10
1/2"	0.25	3.2	16	12.5	38	25.5	12.5
5/8"	0.5	4.1	20.5	16	47.5	32	16
3/4"	0.8	5.6	28	19	57	38	19
7/8"	1.4	6.4	32	22	67	44.5	22.2
1"	1.9	11	55	25	76	51	25.4
1-1/8"	2.92	13.9	69.5	28	86	57	28.5
1-1/4"	3.75	16.3	81.5	32	95	63.5	32
1-3/8"	5.12	19.5	97.5	35	105	70	35
1-1/2"	6.5	24.6	123	38	114	76	38
1-5/8"	8.4	28.4	142	41.5	124	82.5	41.3
1-3/4"	10.21	38.5	192.5	44.5	133	89	44.5
1-7/8"	13.15	43.5	217.5	48	143	95.5	47.6
2"	15.42	46.5	232.5	51	152.5	102	51
2-1/4"	21.78	64.9	324.5	57.5	171.5	114.5	57
2-1/2"	29.94	66.8	334	63.5	190.5	127	63.5
2-3/4"	39.92	98.4	492	70	209.5	140	70
3"	51.71	103.4	517	76.5	229	152.5	76
3-1/4"	66.23	118.9	594.5	82.5	248	165	82.5
3-1/2"	82.1	126.6	633	89	257.5	178	89
4"	122.93	169.2	846	102	305	203.5	101.5

## FORGED DELTA RING



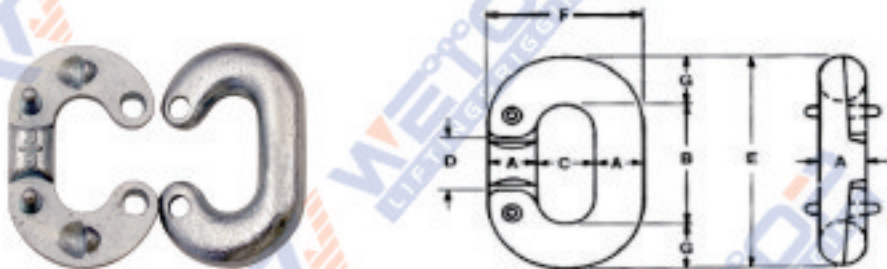
SIZE IN.	WEIGHT KG/PC	B.L TON	A MM	B MM	D MM	E MM
2"	0.2	5	80	44.5	12	15
3"	0.36	8.2	109.4	60	14	20
4"	0.62	9.1	142	74	16	25

## WELDLESS END LINK SIMILAR TO G-340/S-340



SIZE (A) (IN.)	WORKING LOAD LIMIT (LBS.)	WEIGHT EACH (LBS.)	DIMENSIONS (IN.)		
			B	C	D
5/16	2500	0.15	0.50	1.75	1.18
3/8	3800	0.22	0.56	1.88	1.38
1/2	6500	0.49	0.75	2.38	1.81
5/8	9300	0.97	1.00	3.25	2.32
3/4	14000	1.51	1.13	3.50	2.68
7/8	12000	2.59	2.00	5.13	3.75
1	15200	3.95	2.25	5.75	4.25
1.1/4	26400	7.30	2.50	7.00	5.00
1.3/8	30000	10.38	2.75	7.75	5.50

## ALLOY CONNECTING LINKS SIMILAR TO G-335/S-335



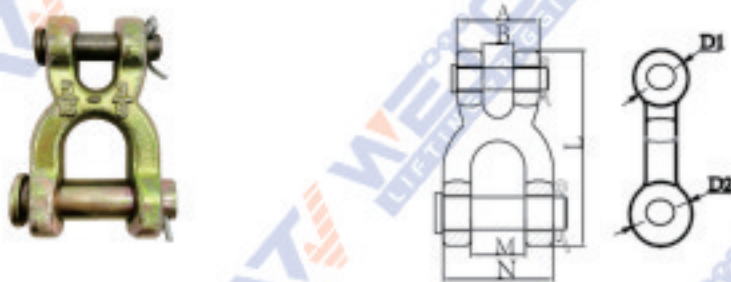
CHAIN SIZE (IN.)	WORKING LOAD LIMIT (LBS.)	WEIGHT PER 100 (LBS.)	DIMENSIONS (IN.)						
			A	B	C	D	E	F	G
3/16	800	2.50	0.25	0.69	0.34	0.34	1.19	0.78	0.28
1/4	1325	6.25	0.28	0.88	0.44	0.44	1.50	1.00	0.31
5/16	1950	12.50	0.34	0.94	0.47	0.47	1.69	1.16	0.38
3/8	2750	20.00	0.41	1.13	0.56	0.56	2.06	1.38	0.47
7/16	3625	27.50	0.47	1.28	0.59	0.59	2.34	1.53	0.53
1/2	4750	37.50	0.53	1.47	0.66	0.66	2.66	1.72	0.59
5/8	7250	72.50	0.66	1.81	0.78	0.81	3.31	2.09	0.75
3/4	10250	122.50	0.78	2.13	0.94	1.06	3.88	2.50	0.88
7/8	12000	175.00	0.91	2.50	1.13	1.13	4.50	2.94	1.00
1	15500	250.00	1.03	2.75	1.25	1.25	5.00	3.31	1.13

## H TYPE TWIN CLEVIS LINK



SIZE	WEIGHT	WLL	A	D	G	R
IN.	KG/PC	TON	MM	MM	MM	MM
1/4"-5/16"	0.15	2	12	9.5	11.5	30.5
3/8"	0.2	3	13.9	12	12.6	34.4
7/16"-1/2"	0.45	5	17	14	16.6	45.5
5/8"	0.6	7.5	20	17.5	19.5	55

## X TYPE DOUBLE CLEVIS LINK



SIZE	WEIGHT	WLL	A	B	M	N	L	D1	D2
IN.	KG/PC	TON	MM	MM	MM	MM	MM	MM	MM
1/4"	0.17	1.18	32	13.2	19.5	37.5	72.5	20.6	25.4
5/16"-3/8"	0.37	2.45	39.5	14.7	26	52.5	90.7	25	30
7/16"	0.57	3.17	44	18	29	57.5	104	30	33
1/2"	0.71	4.17	51	21	32.3	63.5	116	33	37
5/8"	1.3	7.94	56.8	19.8	41.4	81	144	41	47

## COLD SHUT



TRADE SIZE (IN.)	W.L.L.		DIMENSIONS (IN.)				WEIGHT /100PCS (LBS.)
	LBS	KG	A	B	C	D	
1/8	220	100	1/8	3/16	3/8	1-3/6	2
3/16	660	299	3/16	1/4	1/2	1-7/8	4-1/2
1/4	880	399	1/4	9/32	9/16	2-1/4	8
5/16	1760	798	5/16	3/8	11/16	2-15/16	17
3/8	2220	998	3/8	7/16	3/4	3-1/8	23
1/2	3300	1497	1/2	19/32	15/16	4-1/8	51

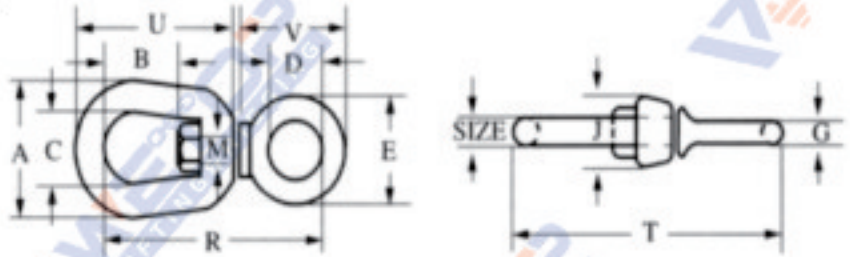
## REPAIR & LAP LINKS



TRADE SIZE (IN.)	WEIGHT /100PCS (LBS.)	W.L.L.	
		(LBS.)	(KGS.)
1/8x3/4	1-1/8	190	86
3/16x1	3-1/4	240	109
7/32x1-1/4	4-3/4	250	113
1/4x1-1/4	6-3/4	400	181
9/32x1-1/4	8-1/4	525	238
1/4x1-1/2	7-1/4	400	181
1/4x2	9-3/4	400	181
5/16x1-1/2	13	950	431
5/16x2	17	1000	454
3/8x1-5/8	23	1250	567
3/8x2	26	1250	567
1/2x2-1/2	53	2125	964
5/8x2-1/2	81	1000	454

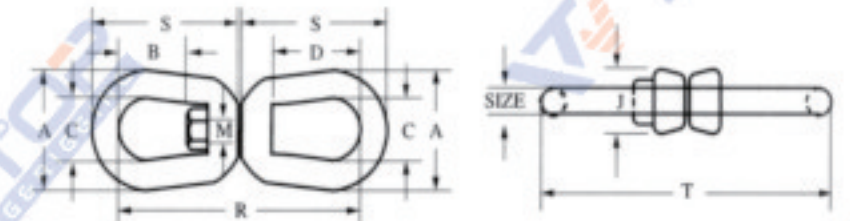
# SWIVELS

## G-401 CHAIN SWIVEL



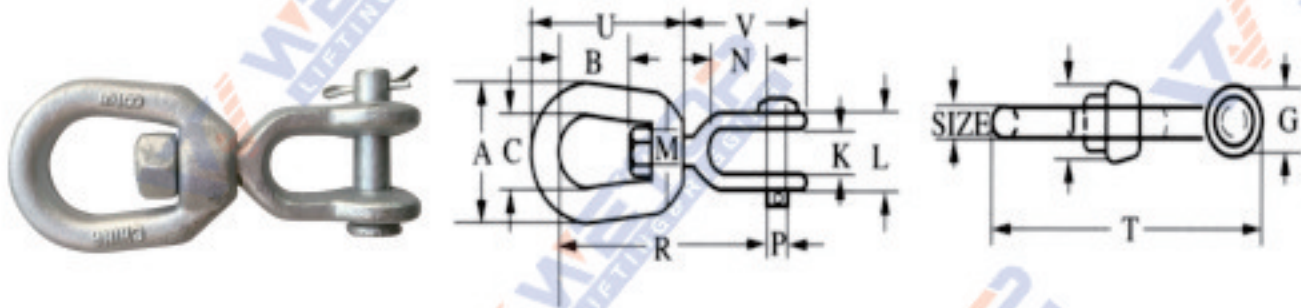
SIZE	WLL	WEIGHT	DIMENSIONS(IN.)											
IN.	LBS	LBS	A	B	C	D	E	G	J	M	R	T	U	V
1/4"	850	0.13	1.25	0.69	0.75	0.64	1.12	0.25	0.69	0.31	2.25	2.75	1.69	1.25
5/16"	1250	0.25	1.63	0.81	1	0.75	1.38	0.31	0.81	0.38	2.72	3.34	2.06	1.47
3/8"	2500	0.54	2	0.94	1.25	1	1.75	0.38	1	0.5	3.44	4.19	2.5	1.88
1/2"	3600	1.12	2.5	1.31	1.5	1.25	2.25	0.5	1.31	0.63	4.25	5.25	3.19	2.44
5/8"	5200	2.09	3	1.56	1.75	1.5	2.75	0.62	1.5	0.75	5.13	6.31	3.88	2.94
3/4"	7200	3.09	3.5	1.75	2	1.75	3.25	0.75	1.88	0.88	5.78	7.22	4.94	3.46

## G-402 REGULAR SWIVEL



SIZE	WLL	WEIGHT	DIMENSIONS(IN.)									
IN.	LBS	LBS	A	B	C	D	J	M	R	S	T	
1/4"	850	0.21	1.25	0.69	0.75	1.06	0.69	0.31	2.94	1.69	3.44	
5/16"	1250	0.39	1.63	0.81	1	1.25	0.81	0.38	3.56	2.06	4.19	
3/8"	2250	0.71	2	0.94	1.25	1.5	1	0.5	4.31	2.5	5.06	
1/2"	3600	1.32	2.5	1.31	1.5	2	1.31	0.63	5.44	3.19	6.44	
5/8"	5200	2.49	3	1.56	1.75	2.38	1.5	0.75	6.56	3.88	7.81	
3/4"	7200	4.02	3.5	1.75	2	2.63	1.88	0.88	7.19	4.31	8.69	
7/8"	10000	6.25	4	2.06	2.25	3.06	2.13	1	8.38	5	10.13	
1"	12500	8.95	4.5	2.31	2.5	3.5	2.38	1.13	9.63	5.75	11.63	
1-1/4"	18000	16.37	5.63	2.69	3.13	3.69	3	1.38	11.13	6.75	13.36	
1-1/2"	45200	45.79	7	4.19	4	4.19	4	2.25	17.13	10	20.13	

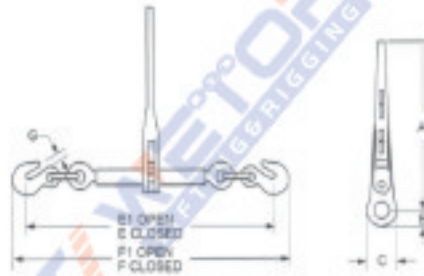
## G-403 JAW END SWIVEL



SIZE	WLL	WEIGHT	DIMENSIONS(IN.)													
IN.	LBS	LBS	A	B	C	G	J	K	L	M	N	P	R	T	U	V
1/4"	850	0.21	1.25	0.69	0.75	0.69	0.69	0.47	1.03	0.31	0.88	0.25	2.63	3.38	1.69	1.69
5/16"	1250	0.34	1.63	0.81	1.00	0.81	0.81	0.50	1.13	0.38	0.88	0.31	2.94	3.88	2.06	1.81
3/8"	2250	0.66	2.00	0.94	1.25	1.00	1.00	0.63	1.41	0.50	1.06	0.38	3.63	4.75	2.50	2.25
1/2"	3600	1.34	2.50	1.31	1.50	1.31	1.31	0.75	1.75	0.63	1.31	0.50	4.50	6.06	3.19	2.88
5/8"	5200	2.48	3.00	1.56	1.75	1.63	1.50	0.94	2.06	0.75	1.50	0.63	5.31	7.31	3.88	3.44
3/4"	7200	3.88	3.50	1.75	2.00	1.88	1.88	1.13	2.53	0.88	1.75	0.75	6.06	8.31	4.31	4.00
7/8"	10000	5.87	4.00	2.06	2.25	2.13	2.13	1.19	2.75	1.00	2.06	0.88	7.00	9.53	5.00	4.53
1"	12500	9.84	4.50	2.31	2.50	2.63	2.38	1.75	3.72	1.13	2.81	1.13	8.56	11.69	5.75	5.94
1-1/4"	18000	15.75	5.69	2.69	3.13	3.13	3.00	2.06	4.31	1.50	2.81	1.38	9.44	13.13	6.75	6.38
1-1/2"	45200	54.75	7.00	4.19	4.00	5.63	4.00	2.88	6.00	2.25	4.44	2.25	14.74	20.84	10.00	10.84

# LOAD BINDERS

## STANDARD L-140 RATCHNET TYPE LOAD BINDER



SIZE	WLL	Proof Load	Min Ultimate Load	Weight	Handle Length	Dimensions(IN.)						
IN.	LBS	LBS	LBS	KG	IN.	A	B	C	E	E1	F1	G
1/4"-5/16"	2200	4400	7800	1.6	7.16	7.16	0.89	1.77	16.22	21.62	17.79	0.35
5/16"-3/8"	6600	10800	19800	4.891	13.42	13.92	1.3	2.6	22.64	30.64	25.24	0.51
3/8"-1/2"	9200	18400	33000	5.864	13.92	13.92	1.3	2.6	24.13	32.13	27.04	0.59
1/2"-5/8"	13000	26000	46000	6.536	13.92	13.92	1.3	2.6	26.45	34.45	30.07	0.74

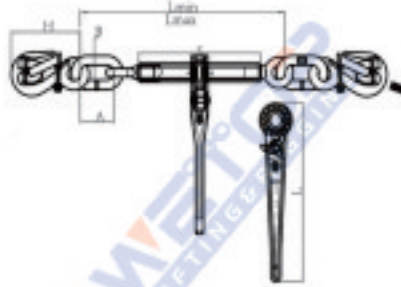
## STANDARD L-150 LEVER TYPE LOAD BINDER



SIZE	WLL	Proof Load	Min Ultimate Load	Weight	Handle Length	Dimensions(IN.)						
IN.	LBS	LBS	LBS	KG	IN.	A	B	C	D	E	F	G
1/4"-5/16"	2200	4400	7800	1.6	11.42	18.5	17.3	14.17	11.42	8.27	8.07	0.35
5/16"-3/8"	5400	10800	19000	7.02	16	24.13	22.13	17.88	16	10.38	10.38	0.5
3/8"-1/2"	9200	18400	33000	12.47	18.89	26.75	25.75	21.25	18.69	12.31	12.38	0.63
1/2"-5/8"	13000	26000	46000	19.68	21	31.25	29.75	25	21	14.63	13.75	0.72

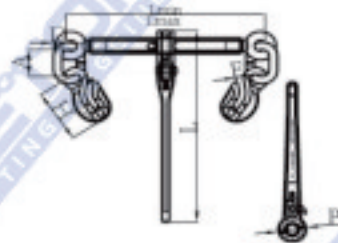


## EUROPEAN EN12195-3 G80 RATCHET TYPE LOAD BINDER



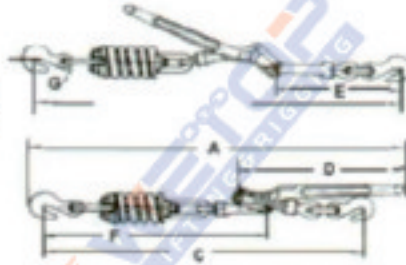
SIZE	WEIGHT	LC	BF	A	B	H	L(min)	L(max)	L
MM	KG/PC	KN	KN	MM	MM	MM	MM	MM	MM
8	3.18	40	80.4	50	25	92	340	500	210
10	5.3	63	126	50	25	118	365	525	280
13	8.4	100	212	72	30	146.5	365	525	355
16	8.8	160	322	72	32	178	390	550	355

## G100 RACHET BINDER WITH SAFETY HOOK



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

## SPRING LOAD BINDER



Min-Max Chain Size (in.)	Working Load Limit(lbs.)	Proof Load(lbs.)	Ultimate Load (lbs.)	N.W	Handle Length (in.)	Take Up (in.)	Dimensions(in.)						
							A	B	C	D	E	F	G
1/4-5/16	2200	5200	9200	5.36	11.42	3.75	26.27	17.8	21.89	11.42	8.07	15.97	0.31
5/16-3/8	5400	10800	16200	11.25	15.43	4.5	32.75	30.75	28	16	10.38	19	0.51
3/8-1/2	9200	18400	28000	18.69	17.24	4.5	37.19	35.83	31.49	17.64	12.99	18.7	0.59

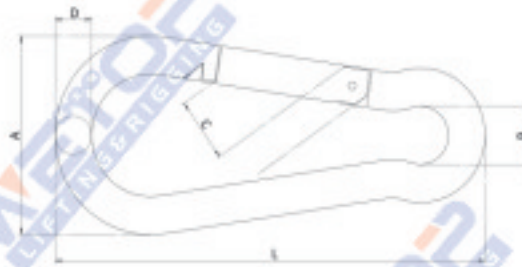
## MINI LOAD BINDER



Min-Max Chain Size (in.)	Working Load Limit(lbs.)	Proof Load(lbs.)	Ultimate Load (lbs.)	N.W (lbs.)	Handle Length (in.)	Dimensions(in.)				
						A	B	C	D	E
LT250	250	500	880	1.43	9.05	12.4	8.82	5	2.75	9.05
LT375	375	750	1300	1.4	9.05	12.4	9.5	5.16	3.23	9.05

# CARABINER SNAP HOOK AND QUICK LINK

## DIN5299 SNAP HOOK



ONLY SNAP HOOK WITH SCREW WITH EYELET WITH SCREW AND EYELET 4 PATTERNS

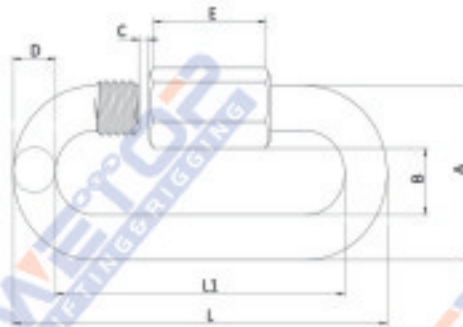
SIZE	A	B	C	D	L	WLL	WEIGHT(KG/100PCS)
MM	MM	MM	MM	MM	MM	LBS	NORMAL
4x40	20	6	6	4	40	100	0.8
5x50	25	6	7	5	50	160	1.6
6x60	30	9	7	6	60	260	2.8
7x70	35	10	10	7	70	335	4.5
8x80	40	11	11	8	80	400	6.3
9x90	45	13	11	9	90	500	9.4
10x100	50	16	12	10	100	650	12.5
11x120	57	18	19	11	120	700	19.2
12x140	67	20	20	12	140	800	25.8
13x160	74	22	29	13	160	1300	35.1
14x180	86	22	42	14	180	1600	45.5
15x200	90	26	42	15	200	1800	61.8

## STRAIGHT SNAP HOOK



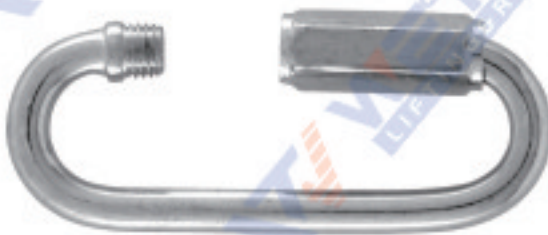
SIZE	A	C	D	L	SWL	N.W.
MM	MM	MM	MM	kgs	LBS	KG/100PCS
5X50	25	9	5	50	160	1.75
6X60	30	11	6	60	260	2.55
8X80	40	13	8	80	400	5.7
10X100	50	16	10	100	650	13.6
11X120	58	21	11	120	700	18.5

## STANDARD QUICK LINKS



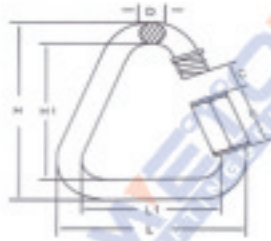
SIZE	A	B	C	D	L	L1	E	WEIGHT
MM	MM	MM	MM	MM	MM	MM	MM	KG/100PCS
3.5	17	10	5	3.5	36	29	11	0.8
4	19.5	11.5	5.5	4	39.5	31.5	12.5	1.2
5	23	13	6.5	5	48.5	35.5	16	2.1
6	26.5	14.5	7.5	6	57	45	19	3.5
7	30	16	8.5	7	66	52	21.5	5.45
8	33.5	17.5	10.5	8	74	58	24	7.5
9	37	19	11	9	80	62	26	10.5
10	40.5	20.5	12	10	89	69	29	13.5
12	47.5	23.5	15	12	104.5	80.5	33	22.8
14	54.5	26.5	17	14	121	93	38.5	35
16	61.5	29.5	19	16	140	108	45	50

## WIDE JAW QUICK LINK



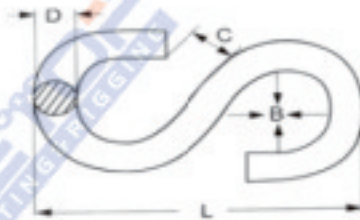
SIZE	A	B	C	D	L	L1	E	W.L.L.	N.W.
mm	mm	mm	mm	mm	mm	mm	mm	Lbs	g/pcs
3.5	17	10	5	3.5	46	39.5	16	180	7
4	19.5	11.5	5.5	4	53	45	19	350	15
5	23	13	6.5	5	62	52	22	550	20
6	26.5	14.5	7.5	6	70.5	58.5	25	770	37
7	30	16	8.5	7	79	65	28	880	60
8	33.5	17.5	10.5	8	88	72	31.5	1430	90
10	40.5	20.5	12	10	105.5	85.5	36	1760	135
12	47.5	23.5	15	12	124	100	43	2755	250

## DELTA SHAPED QUICK LINK



SIZE	H	H1	C	D	L	L1	E	W.L.L.	N.W.
mm	mm	mm	mm	mm	mm	mm	mm	Lbs	g/pcs
3.5	36	29	5	3.5	31.5	24	11	200	9
4	40	32	5.5	4	35.5	27.5	12.5	250	14
5	48	38	6.5	5	40	30	16	330	23
6	56	44	7.5	6	47	35	19	550	40
8	73	57	10.5	8	56	40	24	1210	89
10	87	67	12	10	66	46	29	1320	155
12	104	80	15	12	75	51	33	2425	287

## S HOOK



SIZE	B	C	D	L	WEIGHT
MM	MM	MM	MM	MM	KG/100PC
2.5	6	3	2.5	20	0.17
3	7	3.5	3	25	0.33
3.5	9	4	3.5	30	0.48
4	11	5	4	35	0.78
4.5	12	5.5	4.5	40	1.15
5	14	6	5	45	1.52
6	16	7	6	55	2.6
7	18	8	7	65	4.5
8	23	10	8	75	6.5
10	25	13	10	100	12.6
12	30	15	12	120	15