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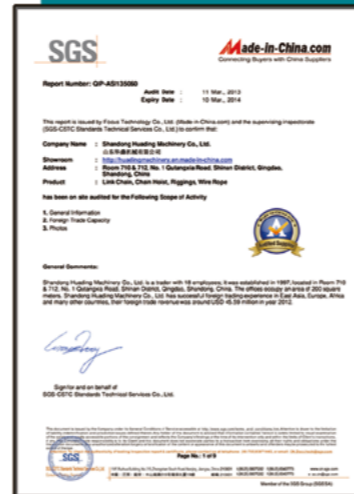
## About Us

Shandong Huading Machinery Co.Ltd.and Qingdao Huazhuo Machinery Co.ltd are constituent companies of Shandong Machinery I and E Group Corp which was established in 1958.

Shandong Huading Machinery Co.Ltd.and Qingdao Huazhuo Machinery Co.ltd are leading suppliers of rigging hardware,wire rope,chain,chain hoist,snatch block,cargo control system and so on.We invest our own manufacture for riggings and pay much attention to quality control.We gain excellent reputation from customers because of high quality,professional service and prompt delivery from the very start.Our business volume developed continuously every year and we exported more than 50 million in 2012.

All the staff of Shandong Huading Machinery Co.Ltd.and Qingdao Huazhuo Machinery Co.ltd work hard and expect long term and friendly business relation with new and existing customers all over the world.

Professional to win the market! We are ready to work with you!



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# POPULAR CHAIN WIRE ROPE ACCESSORIES

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## SHACKLES

## POPULAR CHAIN & WIRE ROPE ACCESSORIES



### COMMERCIAL GRADE SCREW PIN ANCHOR SHACKLE U.S TYPE



ART NO.	SIZE	W.L.L.	PIN DIA.	I.L.	N.W.
	inch	ton	inch	inch	lbs
S0101	3/16	1/4	1/4	7/8	0.05
S0102	1/4	1/3	5/16	1-1/8	0.12
S0103	5/16	1/2	3/8	1-7/32	0.19
S0104	3/8	3/4	7/16	1-7/16	0.31
S0105	7/16	1	1/2	1-11/16	0.38
S0106	1/2	1-1/2	5/8	1-7/8	0.63
S0107	5/8	2-1/4	3/4	2-3/8	1.38
S0108	3/4	3-1/4	7/8	2-13/16	2.25
S0109	7/8	4-1/4	1	3-5/16	3.38
S0110	1	5-1/2	1-1/8	3-3/4	5.32

M.B.S IS 4 TIMES OF W.L.L.

### COMMERCIAL GRADE SCREW PIN CHAIN SHACKLE U.S TYPE



ART NO.	SIZE	W.L.L.	PIN DIA.	I.L.	N.W.
	inch	ton	inch	inch	lbs
S0201	1/4	1/3	5/16	7/8	0.11
S0202	5/16	1/2	3/8	1-1/32	0.17
S0203	3/8	3/4	7/16	1-1/4	0.24
S0204	7/16	1	1/2	1-7/16	0.4
S0205	1/2	1-1/2	5/8	1-5/8	0.59
S0206	5/8	2-1/4	3/4	2	1.21
S0207	3/4	3-1/4	7/8	2-3/8	2.25
S0208	7/8	4-1/4	1	2-13/16	3.16
S0209	1	5-1/2	1-1/8	3-3/16	4.74

M.B.S IS 4 TIMES OF W.L.L.

### EUROPEAN TYPE LARGE BOW SHACKLE



ART NO.	SIZE	W.L.L.	I.L.	N.W.
	mm	kgs	mm	kg
S0301	5	80	19	0.019
S0302	6	100	25	0.034
S0303	8	200	32	0.070
S0304	10	320	38	0.130
S0305	12	520	51	0.260
S0306	16	800	64	0.500
S0307	20	1100	76	0.800
S0308	22	1500	89	1.300
S0309	25	2100	100	2.000
S0310	28	3000	115	3.000

M.B.S IS 4 TIMES OF W.L.L.

### EUROPEAN TYPE LARGE DEE SHACKLE



ART NO.	SIZE	W.L.L.	I.L.	N.W.
	mm	kgs	mm	kg
S0401	5	80	19	0.018
S0402	6	100	25	0.032
S0403	8	200	32	0.067
S0404	10	320	38	0.126
S0405	12	520	51	0.235
S0406	16	800	64	0.494
S0407	20	1100	76	0.790
S0408	22	1500	89	1.280
S0409	25	2100	100	1.980
S0410	28	3000	115	2.970

M.B.S IS 4 TIMES OF W.L.L.

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## JIS TYPE SCREW PIN ANCHOR SHACKLE WITH OR WITHOUT COLLAR



ART.NO	SIZE	W.L.L	I.L	N.W
	mm	kgs	mm	kg
S0501	5	90	19	0.026
S0502	6	150	25	0.028
S0503	8	250	26	0.065
S0504	10	400	32	0.080
S0505	12	600	43	0.200
S0506	16	800	51	0.495
S0507	20	1000	62	0.800
S0508	22	1500	72	1.260
S0509	25	2000	83	1.900
S0510	28	2500	108	2.650

M.B.S IS 4 TIMES OF W.L.L

## JIS TYPE SCREW PIN CHAIN SHACKLE WITH OR WITHOUT COLLAR



ART.NO	SIZE	W.L.L	I.L	N.W
	mm	kgs	mm	kg
S0601	5	90	16	0.014
S0602	6	150	22	0.028
S0603	8	250	27	0.049
S0604	10	400	31	0.073
S0605	12	600	40	0.180
S0606	16	800	51	0.420
S0607	20	1000	64	0.720
S0608	22	1500	75	1.180
S0609	25	2000	83	1.800
S0610	28	2500	96	2.500

M.B.S IS 4 TIMES OF W.L.L

## JIS TYPE SCREW PIN CHAIN SHACKLE WITH COUNTER SUNK HEAD



ART.NO	SIZE	W.L.L	I.L	N.W
	mm	kgs	mm	kg
S0701	5	90	16	0.012
S0702	6	150	22	0.026
S0703	8	250	27	0.045
S0704	10	400	31	0.065
S0705	12	600	40	0.170
S0706	16	800	51	0.400
S0707	20	1000	64	0.670
S0708	22	1500	75	1.100
S0709	25	2000	83	1.600
S0710	28	2500	96	2.350

M.B.S IS 4 TIMES OF W.L.L

## TRAWLING CHAIN SHACKLE WITH SQUARE HEAD SCREW PIN



ART.NO	SIZE	W.L.L	I.L	N.W
	mm	ton	mm	kg
S0801	8	0.20	32	0.07
S0802	10	0.30	38	0.13
S0803	12	0.50	51	0.25
S0804	16	0.80	63	0.53
S0805	20	1.10	76	0.92
S0806	22	1.50	88	1.40
S0807	25	2.00	102	2.15
S0808	28	2.60	114	3.00
S0809	32	3.80	127	4.55
S0810	38	4.50	152	7.60

M.B.S IS 4 TIMES OF W.L.L



## LARGE BOW BS3032 SHACKLE



ART NO.	SIZE	W.L.L	PIN DIA	I.L	N.W
	mm	kgs	mm	mm	kg
S0901	6	150	10	29	0.11
S0902	10	450	12	41	0.17
S0903	12	750	16	54	0.35
S0904	16	1250	20	70	0.66
S0905	20	2000	22	86	1.02
S0906	22	2750	25	98	1.57
S0907	25	3750	28	108	2.30
S0908	28	4750	32	124	3.20
S0909	32	5750	35	137	4.30
S0910	38	8500	44	168	6.80
S0911	45	11500	51	206	11.00
S0912	50	15000	57	238	20.00

PROOF LOAD IS 2 TIMES OF W.L.L

## LARGE DEE BS3032 SHACKLE



ART NO.	SIZE	W.L.L	PIN DIA	I.L	N.W
	mm	kgs	mm	mm	kg
S1001	6	150	10	29	0.10
S1002	10	450	12	41	0.18
S1003	12	750	16	54	0.33
S1004	16	1250	20	70	0.63
S1005	20	2000	22	86	0.98
S1006	22	2750	25	98	1.50
S1007	25	3750	28	108	2.18
S1008	28	4750	32	124	3.02
S1009	32	5750	35	137	4.05
S1010	38	8500	44	168	6.40
S1011	45	11500	51	206	10.30
S1012	50	15000	57	238	19.10

PROOF LOAD IS 2 TIMES OF W.L.L

## SCREW PIN ANCHOR SHACKLE U.S. TYPE, drop forged



ART NO.	SIZE	W.L.L	PIN DIA	I.L	N.W
	inch	ton	inch	inch	lbs
SF1101	3/16"	1/3	1/4	7/8	0.05
SF1102	1/4"	1/2	5/16	1-1/8	0.12
SF1103	5/16"	3/4	3/8	1-7/32	0.19
SF1104	3/8"	1	7/16	1-7/16	0.31
SF1105	7/16"	1-1/2	1/2	1-11/16	0.38
SF1106	1/2"	2	5/8	1-7/8	0.63
SF1107	5/8"	3-1/4	3/4	2-3/8	1.38
SF1108	3/4"	4-3/4	7/8	2-13/16	2.25
SF1109	7/8"	6-1/2	1	3-5/16	3.38
SF1110	1"	8-1/2	1-1/8	3-3/4	5.32
SF1111	1-1/8"	9-1/2	1-1/4	4-1/4	6.81
SF1112	1-1/4"	12	1-3/8	4-11/16	9.50
SF1113	1-3/8"	13-1/2	1-1/2	5-3/16	13.25
SF1114	1-1/2"	17	1-3/4	5-3/4	17.20
SF1115	1-3/4"	25	2	7	30.38
SF1116	2"	35	2-1/4	7-3/4	45.00
SF1117	2-1/2"	55	2-3/4	10-1/2	85.75

M.B.S IS 6 TIMES OF W.L.L  
MEET FEDERAL SPECIFICATION RR-C-271D TYPE IV A, GRADE A, CLASS 2



## SCREW PIN CHAIN SHACKLE U.S TYPE,drop forged

ART NO.	SIZE	W.L.L	PIN DIA	I.L	N.W
	inch	ton	inch	inch	lbs
SF1201	1/4"	1/2	5/16	7/8	0.11
SF1202	5/16"	3/4	3/8	1-1/32	0.17
SF1203	3/8"	1	7/16	1-1/4	0.24
SF1204	7/16"	1-1/2	1/2	1-7/16	0.40
SF1205	1/2"	2	5/8	1-5/8	0.59
SF1206	5/8"	3-1/4	3/4	2	1.21
SF1207	3/4"	4-3/4	7/8	2-3/8	2.25
SF1208	7/8"	6-1/2	1	2-13/16	3.16
SF1209	1"	8-1/2	1-1/8	3-3/16	4.74
SF1210	1-1/8"	9-1/2	1-1/4	3-9/16	6.75
SF1211	1-1/4"	12	1-3/8	3-15/16	9.06
SF1212	1-3/8"	13-1/2	1-1/2	4-3/8	11.60
SF1213	1-1/2"	17	1-3/4	4-13/16	15.95
SF1214	1-3/4"	25	2	5-3/4	26.75
SF1215	2"	35	2-1/4	6-3/4	42.31
SF1216	2-1/2"	55	2-3/4	8	71.75

M.B.S IS 6 TIMES OF W.L.L  
MEET FEDERAL SPECIFICATION RR-C-271D TYPE IVB, GRADE A ,CLASS 2

## ROUND PIN ANCHOR SHACKLE U.S TYPE,drop forged

ART NO.	SIZE	W.L.L	PIN DIA	I.L	N.W
	inch	ton	inch	inch	lbs
SF1301	3/16"	1/3	1/4	7/8	0.06
SF1302	1/4"	1/2	5/16	1-1/8	0.13
SF1303	5/16"	3/4	3/8	1-7/32	0.17
SF1304	3/8"	1	7/16	1-7/16	0.25
SF1305	7/16"	1-1/2	1/2	1-11/16	0.38
SF1306	1/2"	2	5/8	1-7/8	0.70
SF1307	5/8"	3-1/4	3/4	2-3/8	1.50
SF1308	3/4"	4-3/4	7/8	2-13/16	2.32
SF1309	7/8"	6-1/2	1	3-5/16	3.40
SF1310	1"	8-1/2	1-1/8	3-3/4	5.00
SF1311	1-1/8"	9-1/2	1-1/4	4-1/4	6.97
SF1312	1-1/4"	12	1-3/8	4-11/16	9.75
SF1313	1-3/8"	13-1/2	1-1/2	5-3/16	13.25
SF1314	1-1/2"	17	1-3/4	5-3/4	17.25
SF1315	1-3/4"	25	2	7	29.46
SF1316	2"	35	2-1/4	7-3/4	45.75
SF1317	2-1/2"	55	2-3/4	10-1/2	85.80

M.B.S IS 6 TIMES OF W.L.L  
MEET FEDERAL SPECIFICATION RR-C-271D TYPE IVA, GRADE A ,CLASS 1

## ROUND PIN CHAIN SHACKLE U.S TYPE,drop forged

ART NO.	SIZE	W.L.L	PIN DIA	I.L	N.W
	inch	ton	inch	inch	lbs
SF1401	1/4"	1/2	5/16	7/8	0.10
SF1402	5/16"	3/4	3/8	1-1/32	0.18
SF1403	3/8"	1	7/16	1-1/4	0.25
SF1404	7/16"	1-1/2	1/2	1-7/16	0.38
SF1405	1/2"	2	5/8	1-5/8	0.50
SF1406	5/8"	3-1/4	3/4	2	1.21
SF1407	3/4"	4-3/4	7/8	2-3/8	2.00
SF1408	7/8"	6-1/2	1	2-13/16	3.28
SF1409	1"	8-1/2	1-1/8	3-3/16	4.75
SF1410	1-1/8"	9-1/2	1-1/4	3-9/16	6.30
SF1411	1-1/4"	12	1-3/8	3-15/16	9.00
SF1412	1-3/8"	13-1/2	1-1/2	4-3/8	12.00
SF1413	1-1/2"	17	1-3/4	4-13/16	16.15
SF1414	1-3/4"	25	2	5-3/4	29.96
SF1415	2"	35	2-1/4	6-3/4	43.25
SF1416	2-1/2"	55	2-3/4	8	72.30

M.B.S IS 6 TIMES OF W.L.L  
MEET FEDERAL SPECIFICATION RR-C-271D TYPE IVB, GRADE A ,CLASS 1

## BOLT TYPE SAFETY ANCHOR SHACKLE U.S TYPE,drop forged

ART NO.	SIZE	W.L.L	PIN DIA	I.L	N.W
	inch	ton	inch	inch	lbs
SF1501	1/2"	2	5/8	1-7/8	0.79
SF1502	5/8"	3-1/4	3/4	2-3/8	1.68
SF1503	3/4"	4-3/4	7/8	2-13/16	2.72
SF1504	7/8"	6-1/2	1	3-5/16	3.95
SF1505	1"	8-1/2	1-1/8	3-3/4	6.12
SF1506	1-1/8"	9-1/2	1-1/4	4-1/4	8.27
SF1507	1-1/4"	12	1-3/8	4-11/16	11.71
SF1508	1-3/8"	13-1/2	1-1/2	5-3/16	15.38
SF1509	1-1/2"	17	1-3/4	5-3/4	20.80
SF1510	1-3/4"	25	2	7	33.91
SF1511	2"	35	2-1/4	7-3/4	52.25
SF1512	2-1/2"	55	2-3/4	10-1/2	98.25
SF1513	3"	85	3-1/4	13	154.00

M.B.S IS 6 TIMES OF W.L.L  
MEET FEDERAL SPECIFICATION RR-C-271D TYPE IVA, GRADE A ,CLASS 3

## BOLT TYPE SAFETY CHAIN SHACKLE U.S TYPE,drop forged

ART NO.	SIZE	W.L.L	PIN DIA	I.L	N.W
	inch	ton	inch	inch	lbs
SF1601	1/2"	2	5/8	1-5/8	0.75
SF1602	5/8"	3-1/4	3/4	2	1.47
SF1603	3/4"	4-3/4	7/8	2-3/8	2.52
SF1604	7/8"	6-1/2	1	2-13/16	3.85
SF1605	1"	8-1/2	1-1/8	3-3/16	5.55
SF1606	1-1/8"	9-1/2	1-1/4	3-9/16	7.60
SF1607	1-1/4"	12	1-3/8	3-15/16	10.81
SF1608	1-3/8"	13-1/2	1-1/2	4-3/8	13.75
SF1609	1-1/2"	17	1-3/4	4-13/16	18.50
SF1610	1-3/4"	25	2	5-3/4	31.40
SF1611	2"	35	2-1/4	6-3/4	46.75
SF1612	2-1/2"	55	2-3/4	8	85.00
SF1613	3"	85	3-1/4	8-1/2	124.25

M.B.S IS 6 TIMES OF W.L.L  
MEET FEDERAL SPECIFICATION RR-C-271D TYPE IVB, GRADE A ,CLASS 3

## TRAWLING CHAIN SHACKLE WITH SQUARE HEAD SCREW PIN,drop forged

ART NO.	SIZE	W.L.L	PIN DIA	I.L	N.W
	inch	ton	inch	inch	lbs
SF1701	1/2"	2	5/8	1-5/8	0.75
SF1702	5/8"	3-1/4	3/4	2	1.24
SF1703	3/4"	4-3/4	7/8	2-3/8	2.18
SF1704	7/8"	6-1/2	1	2-13/16	3.28

M.B.S IS 6 TIMES OF W.L.L

## DIN 82101 SHACKLE FORM A ,drop forged

ART NO.	PIN DIA	W.L.L	BODY DIA	I.L	N.W
	mm	ton	mm	mm	lbs
SF1801	5	0.10	4	18	0.013
SF1802	6	0.16	5	21	0.024
SF1803	8	0.25	7	28	0.045
SF1804	10	0.40	8	35	0.090
SF1805	12	0.60	10	42	0.170
SF1806	16	1.00	13	57	0.360
SF1807	20	1.60	17	71	0.750
SF1808	22	2.00	19	78	1.000
SF1809	24	2.50	21	85	1.320
SF1810	27	3.00	24	97	1.850
SF1811	30	4.00	27	106	2.500
SF1812	36	5.00	30	129	4.000
SF1813	39	6.00	34	139	5.400

FORM B & FORM C AVAILABLE





## U.S TYPE EXTRA HEAVY DUTY WIRE ROPE THIMBLE ,H.D.G



ART. NO	SIZE	N.W	ART. NO	SIZE	N.W
	inch	kg/100pcs		inch	kg/100pcs
T0101	1/4	3.40	T0109	7/8	83.91
T0102	5/16	6.35	T0110	1	136.00
T0103	3/8	11.34	T0111	1-1/8~1-1/4	186.00
T0104	7/16	16.32	T0112	1-1/4~1-3/8	378.00
T0105	1/2	23.13	T0113	1-3/8~1-1/2	544.00
T0106	9/16	23.13	T0114	1-5/8	737.00
T0107	5/8	34.00	T0115	1-3/4	816.00
T0108	3/4	66.68	T0116	1-7/8~2	1179.36

MEET FEDERAL SPECIFICATION FF-T-276b TYPE 3

## U.S TYPE STANDARD WIRE ROPE THIMBLE ,ZP OR H.D.G



ART. NO	SIZE	N.W	ART. NO	SIZE	N.W
	inch	kg/100pcs		inch	kg/100pcs
T0201	1/8	1.50	T0208	3/4	22.68
T0202	3/16	1.50	T0209	7/8	40.82
T0203	1/4	1.50	T0210	1	47.62
T0204	5/16	1.82	T0211	1-1/8~1-1/4	84.36
T0205	3/8	3.40	T0212	1-1/2	154.00
T0206	1/2	6.26	T0213	1-3/4	269.00
T0207	5/8	16.32			

MEET FEDERAL SPECIFICATION FF-T-276b TYPE 2

## U.S TYPE GUSSETED HEVAY DUTY WIRE ROPE THIMBLE , H.D.G



ART. NO	SIZE	N.W	ART. NO	SIZE	N.W
	inch	kg/100pcs		inch	kg/100pcs
T0301	1/4	3.50	T0306	3/4	72.12
T0302	5/16	6.50	T0307	7/8	89.81
T0303	3/8	12.47	T0308	1	142.00
T0304	1/2	25.63	T0309	1-1/8~1-1/4	195.00
T0305	5/8	37.20	T0310	1-3/8~1-1/2	560.00

## STANDARD TYPE THIMBLE,ZP



ART. NO	SIZE	N.W	ART. NO	SIZE	N.W
	mm	kg/100pcs		mm	kg/100pcs
T0401	6	1.70	T0405	16	5.50
T0402	8	3.70	T0406	20	20.00
T0403	10	4.40	T0407	22	28.00
T0404	12	7.30	T0408	24	40.00

## EUROPEAN TYPE COMMERCIAL THIMBLE,ZP



ART. NO	SIZE	N.W	ART. NO	SIZE	N.W
	mm	kg/100pcs		mm	kg/100pcs
T0501	6	3.00	T0506	20	50.00
T0502	8	4.00	T0507	22	66.00
T0503	10	8.00	T0508	25	80.00
T0504	12	13.00	T0509	28	95.00
T0505	16	24.00	T0510	32	127.00



## DIN6899 B TYPE THIMBLE,ZP



ART. NO	SIZE	N.W	ART. NO	SIZE	N.W
	mm	kg/100pcs		mm	kg/100pcs
T0601	11-12	24	T0606	20-22	135
T0602	12-13	25	T0607	22-24	179
T0603	14-15	35	T0608	24-26	227
T0604	16-18	65	T0609	26-28	264
T0605	18-20	102	T0610	28-31	400

## BS464 WIRE ROPE THIMBLE,H.D.G



ART. NO	SIZE	N.W	ART. NO	SIZE	N.W
	mm	kg/100pcs		mm	kg/100pcs
T0701	8	7.7	T0709	22	69
T0702	9	8	T0710	25	105
T0703	11	12	T0711	29	140
T0704	12	16	T0712	32	172
T0705	14	16	T0713	36	250
T0706	16	32	T0714	38	370
T0707	17	39	T0715	41	370
T0708	19	57	T0716	44	660

## ROUND THIMBLE , ZINC PLATED OR COLOR PAINTED



ART.NO.	SIZE	O.D	ART.NO.	SIZE	O.D
	mm	mm		mm	mm
T0801	8	22	T0809	24	65
T0802	10	28	T0810	26	70
T0803	12	34	T0811	28	75
T0804	14	38	T0812	30	80
T0805	16	42	T0813	32	86
T0806	18	50	T0814	35	92
T0807	20	55	T0815	40	105
T0808	22	60			

## TUBE THIMBLE, ZINC PLATED OR COLOR PAINTED



ART.NO.	SIZE	N.W.	ART.NO.	SIZE	N.W.
	mm	kg		mm	kg
T0901	10	0.25	T0907	24	1.75
T0902	12	0.42	T0908	26	2.00
T0903	14	0.50	T0909	32	2.40
T0904	16	0.60	T0910	38	3.30
T0905	18	0.75	T0911	44	4.06
T0906	22	1.40			





## DIN3091 THIMBLE,HEAVY MALLEABLE CASTING



ART.NO.	SIZE	N.W.	ART.NO.	SIZE	N.W.
	mm	kg		mm	kg
T1001	8	0.14	T1009	24	2.60
T1002	10	0.26	T1010	26	3.62
T1003	12	0.44	T1011	28	4.38
T1004	14	0.65	T1012	32	6.05
T1005	16	0.91	T1013	36	8.61
T1006	18	1.28	T1014	40	11.80
T1007	20	1.67	T1015	44	
T1008	22	2.10			

## DIN3091 THIMBLE, DUCTILE IRON



ART.NO.	SIZE	N.W.	ART.NO.	SIZE	N.W.
	mm	kg		mm	kg
T2001	8	0.16	T2009	24	2.46
T2002	10	0.29	T2010	26	3.17
T2003	12	0.46	T2011	28	3.29
T2004	14	0.73	T2012	32	5.60
T2005	16	0.83	T2013	36	8.01
T2006	18	1.14	T2014	40	10.70
T2007	20	1.49	T2015	44	14.48
T2008	22	1.93	T2016	48	18.85

## U.S TYPE MALLEABLE WIRE ROPE CLIPS,ZP



ART. NO	SIZE	N.W	ART. NO	SIZE	N.W
	inch	kg/100pcs		inch	kg/100pcs
C0101	1/16	0.80	C0108	1/2	18.50
C0102	1/8	1.54	C0109	9/16	22.56
C0103	3/16	2.50	C0110	5/8	28.00
C0104	1/4	5.30	C0111	3/4	35.00
C0105	5/16	5.90	C0112	7/8	53.00
C0106	3/8	10.00	C0113	1	66.60
C0107	7/16	11.30	C0114	1-1/8	111.00

MEET FEDERAL SPECIFICATION FF-C-450 TYPE 1 CLASS 2

## DIN741 MALLEABLE WIRE ROPE CLIPS ,ZP



ART. NO	SIZE	N.W	ART. NO	SIZE	N.W
	mm	kg/100pcs		mm	kg/100pcs
C0201	3	1.40	C0209	16	21.00
C0202	5	1.50	C0210	19	28.00
C0203	6.5	2.10	C0211	22	40.00
C0204	8	4.10	C0212	26	44.00
C0205	10	6.80	C0213	30	66.00
C0206	11	7.20	C0214	34	85.00
C0207	13	13.00	C0215	40	104.00
C0208	14	13.50			

## DIN741 MALLEABLE WIRE ROPE CLIPS WITH GROOVE,ZP



ART. NO	SIZE	N.W	ART. NO	SIZE	N.W
	mm	kg/100pcs		mm	kg/100pcs
C0301	3	1.40	C0309	16	21.00
C0302	5	1.50	C0310	19	28.00
C0303	6.5	2.10	C0311	22	40.00
C0304	8	4.10	C0312	26	44.00
C0305	10	6.80	C0313	30	66.00
C0306	11	7.20	C0314	34	85.00
C0307	13	13.00	C0315	40	104.00
C0308	14	13.50			

## DIN 1142 WIRE ROPE CLIPS,YELLOW CHROMATED



ART. NO	SIZE	N.W	ART. NO	SIZE	N.W
	mm	kg/100pcs		mm	kg/100pcs
C0401	5	2.08	C0407	19	49.00
C0402	6.5	4.00	C0408	22	68.00
C0403	8	8.20	C0409	26	117.00
C0404	10	9.20	C0410	30	140.00
C0405	13	27.50	C0411	34	213.00
C0406	16	43.00	C0412	40	268.00

## WIRE ROPE CLIP ,CAST IRON CASE,ZP



ART. NO	SIZE	N.W	ART. NO	SIZE	N.W
	mm	kg/100pcs		mm	kg/100pcs
C0501	4	1.90	C0507	16	23.00
C0502	6	3.50	C0508	18	27.70
C0503	8	4.70	C0509	20	28.30
C0504	10	9.10	C0510	22	52.20
C0505	12	14.90	C0511	25	90.90
C0506	14	16.60			

## WIRE ROPE CLIP TYPE A ,YELLOW ZINC PLATED



ART. NO	SIZE	N.W	ART. NO	SIZE	N.W
	mm	kg/100pcs		mm	kg/100pcs
C0601	6	2.10	C0606	20	43.00
C0602	8	3.70	C0607	22	60.00
C0603	10	8.50	C0608	25	82.00
C0604	12	16.00	C0609	28	112.00
C0605	15	25.00	C0610	32	150.00

## WIRE ROPE CLIP TYPE B ,MALLEABLE,ZP



ART. NO	SIZE	N.W	ART. NO	SIZE	N.W
	inch	kg/100pcs		inch	kg/100pcs
C0701	1/8	1.30	C0707	5/8	23.20
C0702	3/16	1.60	C0708	11/16	20.30
C0703	1/4	2.40	C0709	3/4	45.00
C0704	5/16	3.70	C0710	7/8	58.00
C0705	3/8	8.10	C0711	1	89.00
C0706	1/2	14.60			



## WIRE ROPE CLIP BS462,MALLEABLE,H.D.G



ART. NO	SIZE	N.W	ART. NO	SIZE	N.W
	mm	kg/100pcs		mm	kg/100pcs
C0801	6	3.00	C0807	16	40.00
C0802	8	6.50	C0808	19	55.00
C0803	9	12.60	C0809	21	70.00
C0804	11	20.50	C0810	22	80.00
C0805	13	33.00	C0811	25	112.00
C0806	14	33.00			

## AUSTRALIA MALLEABLE WIRE ROPE CLIP,ZP



ART. NO	SIZE	N.W	ART. NO	SIZE	N.W
	mm	kg/100pcs		mm	kg/100pcs
C0901	6	3.10	C0906	16	49.00
C0902	8	5.60	C0907	18	50.00
C0903	10	12.00	C0908	20	54.00
C0904	12	21.50	C0909	22	60.00
C0905	14	23.00	C0910	25	112.00

## THAILAND TYPE MALLEABLE WIRE ROPE CLIP, ZP



ART.NO.	SIZE	N.W.	ART.NO.	SIZE	N.W.
	mm	kg		mm	kg
C1101	3	0.016	C1104	8	0.037
C1102	5	0.018	C1105	10	0.079
C1103	6	0.034	C1106	12	

## U.S TYPE DROP FORGED WIRE ROPE CLIP,H.D.G



ART. NO	SIZE	N.W	ART. NO	SIZE	N.W
	inch	kg/100pcs		inch	kg/100pcs
CF1101	1/8	5.00	CF1111	7/8	240.00
CF1102	3/16	9.00	CF1112	1	250.00
CF1103	1/4	18.00	CF1113	1-1/8	310.00
CF1104	5/16	30.00	CF1114	1-1/4	460.00
CF1105	3/8	42.00	CF1115	1-3/8	520.00
CF1106	7/16	70.00	CF1116	1-1/2	590.00
CF1107	1/2	75.00	CF1117	1-5/8	730.00
CF1108	9/16	100.00	CF1118	1-3/4	980.00
CF1109	5/8	100.00	CF1119	2	1340.00
CF1110	3/4	150.00	CF1120	2-1/4	1570.00

MEET FEDERAL SPECIFICATION FF-C-450 TYPE I,CLASS 1

## U.S TYPE DROP FORGED FIST GRIP CLIP,H.D.G



ART. NO	SIZE	N.W	ART. NO	SIZE	N.W
	inch	kg/100pcs		inch	kg/100pcs
CF1201	3/16-1/4	8.16	CF1205	9/16-5/8	45.36
CF1202	5/16	12.70	CF1206	3/4	79.38
CF1203	3/8	18.14	CF1207	7/8	102.06
CF1204	7/16	31.75	CF1208	1	136.08

MEET FEDERAL SPECIFICATION FF-C-450 TYPEIII,CLASS 1

## JIS TYPE DROP FORGED WIRE ROPE CLIP,H.D.G



ART. NO	SIZE	N.W	ART. NO	SIZE	N.W
	mm	kg/100pcs		mm	kg/100pcs
CF1301	6	4.70	CF1306	16	35.00
CF1302	8	8.00	CF1307	18	45.00
CF1303	10	15.00	CF1308	20-22	96.00
CF1304	12	25.00	CF1309	24-25	125.00
CF1305	14	29.00			

## ITALY TYPE DROP FORGED WIRE ROPE CLIP,H.D.G



ART. NO	SIZE	N.W	ART. NO	SIZE	N.W
	mm	kg/100pcs		mm	kg/100pcs
CF1401	4	1.00	CF1407	14	14.00
CF1402	5	2.00	CF1408	16	18.00
CF1403	6	3.00	CF1409	18	26.00
CF1404	8	4.00	CF1410	20	29.00
CF1405	10	7.00	CF1411	22	30.00
CF1406	12	12.00	CF1412	24	38.00

## THAILAND TYPE DROP FORGED WIRE ROPE CLIP,H.D.G.



ART.NO.	SIZE	N.W.	ART.NO.	SIZE	N.W.
	mm	kg		mm	kg
CF1601	3	0.014	CF1604	8	0.037
CF1602	5	0.016	CF1605	10	0.076
CF1603	6	0.035			



## TURNBUCKLES DIN 1480



ART. NO	SIZE	W.L.L	TOTAL LENGTH	BODY LENGTH	N.W
	mm	N	mm	mm	kg/100pcs
TB0101	M6	2250	180	110	7.80
TB0102	M8	4100	195	110	14.80
TB0103	M10	6500	230	125	29.40
TB0104	M12	9300	250	125	36.30
TB0105	M16	13000	320	170	56.00
TB0106	M20	17700	400	200	156.00
TB0107	M22	32000	428	220	230.00
TB0108	M24	39200	490	255	325.00
TB0109	M30	62500	530	255	415.00

## TURNBUCKLES DIN 1480 WITH PLATES



ART. NO	SIZE	W.L.L	TOTAL LENGTH	BODY LENGTH	N.W
	mm	N	mm	mm	kg
TB0115	M16	13000	350	170	0.96

## TURNBUCKLES COMMERCIAL TYPE WITH HOOK AND EYE



ART. NO	SIZE	W.L.L	TOTAL LENGTH	BODY LENGTH	N.W
	mm	kgs	mm	mm	kg
TB0201	6	100	215	100	0.16
TB0202	8	200	280	125	0.24
TB0203	10	300	325	150	0.36
TB0204	12	500	430	200	0.64
TB0205	16	1000	540	250	1.44
TB0206	20	1500	670	300	2.25
TB0207	22	2200	740	330	3.53
TB0208	24	3000	830	350	4.34

## ITALIAN TYPE MALLEABLE TURNBUCKLE



ART.NO.	SIZE	N.W.
	mm	kg
TB0901	12	0.30
TB0902	14	0.54
TB0903	16	0.71
TB0904	18	1.00
TB0905	20	1.31
TB0906	22	1.87
TB0907	24	2.32

## MALLEABLE TURNBUCKLES KOREA TYPE



ART. NO	SIZE	BODY LENGTH	N.W
	inch	mm	kg
TB0701	3/8	150	0.32
TB0702	1/2	150	0.60
TB0703	5/8	200	1.08
TB0704	3/4	200	1.65



## TURNBUCKLES JIS FRAME TYPE WITH EYE AND HOOK



ART. NO	SIZE	T.L	BODY LENGTH	N.W
	mm	ton	mm	kg
TB0301	6	1	100	0.116
TB0302	8	1.2	125	0.220
TB0303	10	1.5	150	0.295
TB0304	12	2	200	0.600
TB0305	16	3	250	1.070
TB0306	20	4	300	1.790
TB0307	22	5	330	2.550
TB0308	24	6	350	3.800

## TURNBUCKLES U.S TYPE SPLIT BODY



ART. NO	SIZE	M.B.S	N.W(kg)	
	inch	lbs	E/E	J/J
TB0601	3/4"X18"	23000	3.3	3.9
TB0602	7/8"X18"	31000	4.3	4.2(with oval eyes)
TB0603	1"X18"	38000	5.9	6.9

## THAILAND FRAME TYPE TURNBUCKLE, EYE/EYE OR EYE/HOOK



ART.NO.	SIZE	N.W.
	mm	kg
TB1001	6	0.18
TB1002	8	0.22
TB1003	10	0.26
TB1004	12	0.53
TB1005	16	1.02
TB1006	20	1.72

## RIGGING SCREWS WITH JAW AND JAW



ART. NO	SIZE	T.L	BODY LENGTH	N.W
	mm	ton	mm	kg
TB0401	M12	1	229	0.67
TB0402	M16	1.5	229	1.20
TB0403	M20	2.25	229	2.15
TB0404	M22	3.25	305	3.25
TB0405	M24	4.25	356	5.20
TB0406	M27	5.25	368	6.75
TB0407	M32	7.25	381	9.35
TB0408	M39	10.25	406	11.20

## TURNBUCKLES D-D TYPE



ART. NO	SIZE	BODY LENGTH	N.W
	mm	mm	kg
TB0501	24	400	2.90
TB0502	27	400	3.80
TB0503	30	400	4.80
TB0504	30	500	5.70
TB0505	36	400	6.80
TB0506	36	500	7.60

## LASHING TURNBUCKLES



ART. NO	SIZE	W.L.L	MAX LENGTH	MIN LENGTH	N.W
	mm	ton	mm	mm	kg
TB0801	1-1/4X18	25.5	1775	1270	16.80





## TURNBUCKLES U.S TYPE, drop forged

ART NO	SIZE (inch) (Dia x Take-up)	Eyes&/or Hooks	Jaw&Eye	APPROX WEIGHT EACH (lbs)			W.L.L (lbs)		
				Jaw&Jaw	Stub End	Body only	H&H H&E	E&E J&E J&J STUB END	
TB0901	1/4"x4"	0.30	0.30	0.40	0.29	0.17	400	500	
TB0902	5/16"x4-1/2"	0.50	0.53	0.58	0.46	0.25	700	800	
TB0903	3/8"x6"	0.75	0.82	0.93	0.75	0.30	1000	1200	
TB0904	1/2"x6"	1.50	1.62	1.68	1.36	0.55	1500	2200	
TB0905	1/2"x9"	1.75	1.82	1.85	1.69	0.74	1500	2200	
TB0906	1/2"x12"	2.18	2.19	2.20	2.00	0.93	1500	2200	
TB0907	5/8"x6"	2.63	2.59	2.82	2.15	0.91	2250	3500	
TB0908	5/8"x9"	3.00	3.01	3.25	2.70	1.20	2250	3500	
TB0909	5/8"x12"	3.25	3.50	3.75	3.22	1.50	2250	3500	
TB0910	3/4"x6"	3.75	4.25	4.68	3.25	1.30	3000	5200	
TB0911	3/4"x9"	4.50	5.00	5.38	4.00	1.70	3000	5200	
TB0912	3/4"x12"	5.75	5.75	6.12	4.65	2.12	3000	5200	
TB0913	3/4"x18"	7.00	7.25	7.25	6.12	2.93	3000	5200	
TB0914	7/8"x6"	5.85	6.29	6.84	4.75	2.00	4000	7200	
TB0915	7/8"x12"	8.38	8.88	9.36	6.67	3.00	4000	7200	
TB0916	7/8"x18"	10.25	10.60	11.44	8.75	4.12	4000	7200	
TB0917	1"x6"	8.76	9.16	9.51	6.41	2.50	5000	10000	
TB0918	1"x12"	11.25	12.00	12.88	8.90	3.86	5000	10000	
TB0919	1"x18"	14.00	14.75	16.10	11.70	5.50	5000	10000	
TB0920	1"x24"	17.00	17.75	18.60	14.30	7.00	5000	10000	
TB0921	1-1/4"x6"	15.45	16.03	16.69	10.40	4.00	6500	15200	
TB0922	1-1/4"x12"	19.00	21.20	23.60	14.20	5.93	6500	15200	
TB0923	1-1/4"x18"	24.10	26.00	26.60	18.00	8.00	6500	15200	
TB0924	1-1/4"x24"	25.00	28.70	31.20	21.80	10.00	6500	15200	
TB0925	1-1/2"x6"	---	---	---	15.40	5.80	7500	21400	
TB0926	1-1/2"x12"	27.00	31.10	35.50	20.50	8.40	7500	21400	
TB0927	1-1/2"x18"	31.20	36.40	40.70	26.20	11.50	7500	21400	
TB0928	1-1/2"x24"	38.20	44.20	47.60	31.40	14.10	7500	21400	
TB0929	1-3/4"x6"	---	---	---	22.70	8.75	---	28000	
TB0930	1-3/4"x18"	45.20	48.80	52.40	---	---	---	28000	
TB0931	1-3/4"x24"	58.00	60.00	64.00	43.90	19.50	---	28000	
TB0932	2"x6"	---	---	---	31.50	12.50	---	37000	
TB0933	2"x24"	90.00	102.00	115.00	60.30	27.50	---	37000	
TB0934	2-1/2"x6"	---	---	---	60.80	27.00	---	60000	
TB0935	2-1/2"x24"	180.00	183.00	200.00	110.00	54.00	---	60000	
TB0936	2-3/4"x24"	210.00	214.00	248.00	---	67.00	---	75000	

PROOF LOAD IS 2.5 TIMES OF W.L.L.:M.B.S IS 5 TIMES OF W.L.L  
MEET FEDERAL SPECIFICATION FF-T791b,TYPE 1,FORM 1



## CHAIN SWIVEL, H.D.G

ART.NO	SIZE inch	W.L.L lbs	O.L inch	O.W inch	N.W lbs
SW0101	1/4	850	2.94	1.25	0.13
SW0102	5/16	1250	3.53	1.63	0.25
SW0103	3/8	2500	4.38	2.00	0.61
SW0104	1/2	3600	5.63	2.50	1.12
SW0105	5/8	5200	6.82	3.00	1.75
SW0106	3/4	7200	8.40	3.50	3.09

M.B.S. IS 5 TIMES OF W.L.L.  
MEET FEDERAL SPECIFICATION RR-C-271D,TYPE VII,CLASS 2



## JAW END SWIVEL, H.D.G

ART.NO	SIZE inch	W.L.L lbs	O.L inch	O.W inch	N.W lbs
SW0201	1/4	850	3.38	1.25	0.25
SW0202	5/16	1250	3.87	1.63	0.37
SW0203	3/8	2250	4.75	2.00	0.70
SW0204	1/2	3600	6.07	2.50	1.43
SW0205	5/8	5200	7.32	3.00	2.48
SW0206	3/4	7200	8.31	3.50	3.88
SW0207	7/8	10000	9.53	4.00	5.75

M.B.S. IS 5 TIMES OF W.L.L.  
MEET FEDERAL SPECIFICATION RR-C-271D,TYPE VII,CLASS 3



## REGULAR SWIVEL, H.D.G.

ART.NO	SIZE inch	W.L.L lbs	O.L inch	O.W inch	N.W lbs
SW0301	1/4	850	2.94	1.25	0.21
SW0302	5/16	1250	3.56	1.63	0.39
SW0303	3/8	2250	4.31	2.00	0.75
SW0304	1/2	3600	5.44	2.50	1.43
SW0305	5/8	5200	6.56	3.00	2.50
SW0306	3/4	7200	7.19	3.50	4.13
SW0307	7/8	10000	8.38	4.00	6.25

M.B.S. IS 5 TIMES OF W.L.L.  
MEET FEDERAL SPECIFICATION RR-C-271D,TYPE VII,CLASS 1



## SCREW EYE BOLT H.D.G., forged carbon steel

ART.NO	SIZE inch	W.L.L lbs	THREAD LENGTH inch	I.D OF EYE inch	N.W lbs/100pc
EBF0301	1/4X2	1.50	0.88	0.88	4.25
EBF0302	5/16X2-1/4	1.69	1.13	1.13	6.25
EBF0303	3/8X2-1/2	1.88	1.38	1.38	18.75
EBF0304	1/2X3-1/4	2.44	1.75	1.75	37.50
EBF0305	5/8X4	3.00	2.25	2.25	68.75



SHOULDER TYPE MACHINERY EYE BOLT S.C. OR H.D.G.  
forged carbon steel

ART.NO	SIZE	W.L.L	THREAD LENGTH	I.D OF EYE	N.W
	inch	lbs	inch	inch	lbs/100pc
EBF0401	1/4X1	650	1.00	0.88	3.20
EBF0402	5/16X1-1/8	1200	1.13	1.12	6.20
EBF0403	3/8X1-1/4	1550	1.25	1.38	12.50
EBF0404	1/2X1-1/2	2600	1.50	1.75	25.00
EBF0405	5/8X1-3/4	5200	1.75	2.25	50.00
EBF0406	3/4X2	7200	2.00	2.75	87.50
EBF0407	7/8X2-1/2	10600	2.25	3.25	150.00
EBF0408	1X2-1/2	13300	2.50	3.75	218.00
EBF0409	1-1/4X3	21000	3.00	4.50	380.00
EBF0410	1-1/2X3-1/2	24000	3.50	5.50	700.00

M.B.S. IS 5 TIMES OF W.L.L.

## SHOULDER TYPE NUT EYE BOLT H.D.G.,forged carbon steel



ART.NO	SIZE	W.L.L	THREAD LENGTH	I.D OF EYE	N.W
	inch	lbs	inch	inch	lbs/100pc
EBF0201	1/4X2	650	1.50	0.50	6.61
EBF0202	1/4X4	650	2.50	0.50	8.61
EBF0203	5/16X2-1/4	1200	1.50	0.62	12.50
EBF0204	5/16X4-1/4	1200	2.50	0.62	18.75
EBF0205	3/8X2-1/2	1550	1.50	0.75	19.00
EBF0206	3/8X4-1/2	1550	2.50	0.75	31.58
EBF0207	1/2X3-1/4	2600	1.50	1.00	37.50
EBF0208	1/2X6	2600	3.00	1.00	56.25
EBF0209	5/8X4	5200	2.00	1.25	75.00
EBF0210	5/8X6	5200	3.00	1.25	100.25
EBF0211	3/4X4-1/2	7200	2.00	1.50	125.00
EBF0212	3/4X6	7200	3.00	1.50	150.00
EBF0213	7/8X5	10600	2.50	1.75	225.00
EBF0214	1X6	13300	3.00	2.00	375.00
EBF0215	1X9	13300	4.00	2.00	429.00
EBF0216	1-1/4X8	21000	4.00	2.50	650.00
EBF0217	1-1/4X12	21000	4.00	2.50	775.00
EBF0218	1-1/2X15	24000	6.00	3.00	1425.00

M.B.S. IS 5 TIMES OF W.L.L.

## REGULAR NUT EYE BOLT H.D.G.,forged carbon steel



ART.NO	SIZE	W.L.L	THREAD LENGTH	I.D OF EYE	N.W
	inch	lbs	inch	inch	lbs/100pc
EBF0101	1/4X2	650	1.50	0.50	6.00
EBF0102	1/4X4	650	2.50	0.50	13.50
EBF0103	5/16X2-1/4	1200	1.50	0.62	18.75
EBF0104	5/16X4-1/4	1200	2.50	0.62	25.00
EBF0105	3/8X2-1/2	1550	1.50	0.75	24.33
EBF0106	3/8X4-1/2	1550	2.50	0.75	37.50
EBF0107	3/8X6	1550	2.50	0.75	43.75
EBF0108	1/2X3-1/4	2600	1.50	1.00	50.00
EBF0109	1/2X6	2600	3.00	1.00	62.50
EBF0110	1/2X8	2600	3.00	1.00	75.00
EBF0111	1/2X10	2600	3.00	1.00	88.00
EBF0112	1/2X12	2600	3.00	1.00	100.00
EBF0113	5/8X4	5200	2.00	1.25	101.25
EBF0114	5/8X6	5200	3.00	1.25	120.00
EBF0115	5/8X8	5200	3.00	1.25	131.00
EBF0116	5/8X10	5200	3.00	1.25	162.50
EBF0117	5/8X12	5200	4.00	1.25	175.00
EBF0118	3/4X4-1/2	7200	2.00	1.50	185.90
EBF0119	3/4X6	7200	3.00	1.50	180.00
EBF0120	3/4X8	7200	3.00	1.50	200.00
EBF0121	3/4X10	7200	3.00	1.50	237.50
EBF0122	3/4X12	7200	4.00	1.50	251.94
EBF0123	3/4X15	7200	5.00	1.50	300.00
EBF0124	7/8X5	10600	2.50	1.75	275.00
EBF0125	7/8X8	10600	4.00	1.75	325.00
EBF0126	7/8X12	10600	4.00	1.75	400.00
EBF0127	1X6	13300	3.00	2.00	425.00
EBF0128	1X9	13300	4.00	2.00	452.00
EBF0129	1X12	13300	4.00	2.00	550.00
EBF0130	1X18	13300	7.00	2.00	650.00
EBF0131	1-1/4X8	21000	4.00	2.50	750.00
EBF0132	1-1/4X12	21000	4.00	2.50	900.00
EBF0133	1-1/4X20	21000	6.00	2.50	1150.00

M.B.S. IS 5 TIMES OF W.L.L.

EYE NUT U.S. TYPE, forged carbon steel  
self colored or hot dipped galvanized

ART.NO.	STOCK SIZE	STD.TAP LENGTH	W.L.L	O.L.	N.W
	inch	inch	lbs	inch	lbs
ELF0501	1/4	1/4	520	1-11/16	0.09
ELF0502	1/4	5/16	850	1-11/16	0.09
ELF0503	5/16	3/8	1250	2-1/16	0.18
ELF0504	3/8	7/16	1700	2-1/2	0.29
ELF0505	3/8	1/2	2250	2-1/2	0.28
ELF0506	1/2	5/8	3600	3-3/16	0.58
ELF0507	5/8	3/4	5200	3-7/8	1.00
ELF0508	3/4	7/8	7200	4-5/16	1.70
ELF0509	7/8	1	10000	5	2.75
ELF0510	7/8	1-1/8	12300	5	2.75
ELF0511	1	1-1/4	15500	5-3/4	3.85
ELF0512	1-1/8	1-3/8	18500	6-1/4	5.00
ELF0513	1-1/4	1-1/2	22500	6-3/4	6.70
ELF0514	1-1/2	2	40000	10	18.70

## OVAL EYE END,self colored



ART.NO.	SIZE	O.L.	N.W.
	mm	mm	kg
EE0101	12	146	0.17
EE0102	16	182	0.30

## JAW END,self colored



ART.NO.	SIZE	O.L.	N.W.
	mm	mm	kg
JE0101	16	190	0.40
JE0102	20	227	0.83
JE0103	24	280	1.35
JE0104	30	333	2.90