

Dura
Stark

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Stark

DURASTARK METAL CORP., LTD.

- www.DuraStark.com
- INFO@DURASTARK.COM

DURASTARK METAL CORP LTD.



**MANUFACTURER OF
METAL HARDWARE ACCESSORIES**

**Excellent
Equipments**



**Scientific
Technics**

**Guarantee first
-Class Products.**

NETWORK SALES

**Professional integrity , efficiency and reliable.
change it to Reliable, Efficient, Professional,
and Trustworthy**

As our business has grown, we have earned the trust and appreciation of our customers through superior quality, strong credibility, and efficient service. Over the years, we have established long-term partnerships with internationally renowned companies. While strengthening our existing markets, we continue to expand globally, building a strong sales network and laying a solid foundation for DuraStark to become a trusted brand/company worldwide.



Company Introduction

With nearly 30 years of steady growth and innovation, our company has evolved into a leading hardware manufacturer, operating over 40,000 square meters of production space with more than 225 employees and 18 professional technicians, equipped with state-of-the-art machinery—supported by a library of over 1,000 hardware moulds. We continue to expand our capabilities and most recently through our newly established plant in Qidong, Jiangsu, which is now fully operational.

Our core product lines cover three major hardware industries: Pet Hardware & Accessories, Rigging Solutions, and Furniture Hardware & Hand Tools. From bolts, snaps, carabiners, buckles, pulleys, and turnbuckles to casters, snap hooks, thimbles, shackles, locks, pliers, and wrenches, we provide a wide range of products built for strength, reliability, and performance.

This pursuit of quality and innovation is embodied in our brand name, DuraStark. Derived from the words "Durable" and "Strong," and inspired by German roots, DuraStark reflects the essence of who we are: a company committed to producing hardware that endures and stands firm under every challenge.

But our mission goes beyond manufacturing. At DuraStark, we believe long-term partnerships are built on professionalism, integrity, efficiency, and reliability. By combining high-quality products with attentive service, we aim not only to meet but to consistently exceed customer expectations—laying the foundation for lasting trust and shared success. DuraStark: Durable. Strong. Your Trusted Partner in Hardware.



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GENERAL HARDWARE

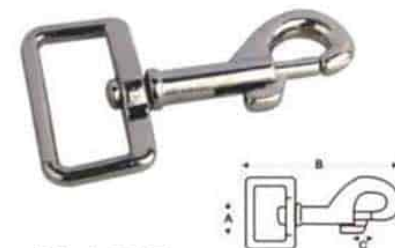
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Pet Hardware



DP-5079ZT

ART NO	A inch	B mm	C mm	NW g
5079Z-10	3/8"	53	7	10
5079Z-12	1/2"	55	7	12
0148Z-12	1/2"	54	7	11
0148Z-19	3/4"	54	7	13
0148Z-25	1"	54	7	14



DP-0148Z

ART NO	A inch	B mm	C mm	NW g
0148Z-12	1/2"	54	7	11
0148Z-19	3/4"	54	7	13
0148Z-25	1"	54	7	14



DP-5055Z

ART NO	A inch	B mm	C mm	NW g
5055Z-10	3/8"	63	9	18
5055Z-12	1/2"	65	9	18.5
5055Z-16	5/8"	68	9	19
5055Z-19	3/4"	70	9	19.5
5055Z-25	1"	60	9	18



DP-5055ZT

ART NO	A inch	B mm	C mm	NW g
5055ZT-16	5/8"	63	9	19
5055ZT-19	3/4"	63	9	20
5055ZT-25	1"	63	9	21



DP-5079ZT

ART NO	A inch	B mm	C mm	NW g
5079ZT-10	3/8"	54	7	10
5079ZT-12	1/2"	54	7	11



DP-5045Z

ART NO	A inch	B mm	C mm	NW g
5045Z-10	3/8"	65	8	18.5
5045Z-12	1/2"	70	8	20.5
5045Z-16	5/8"	72	8	21.5
5045Z-19	3/4"	74	8	22.5



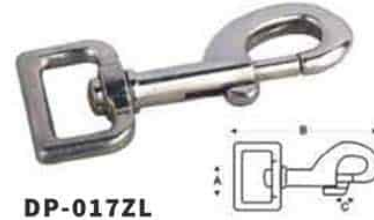
DP-5045ZT

ART NO	A inch	B mm	C mm	NW g
5045ZT-16	5/8	70	8	19
5045ZT-19	3/4	68	8	21
5045ZT-25	1	70	8	22
5045ZTN-16	5/8	67	8	18.5



DP-5025Z

ART NO	A inch	B mm	C mm	NW g
5025Z-10	3/8	75	11	26
5025Z-12	1/2	76	11	26.5
5025Z-16	5/8	80	11	27.5
5025Z-19	3/4	82	11	29



DP-017ZL

ART NO	A inch	B mm	C mm	NW g
017Z-16	5/8	80	11	39
017Z-19	3/4	80	11	40
017Z-25	1	80	11	42
017Z-32	1-1/4	80	11	44
017Z-38	1-1/2	80	11	47
017Z-50	2	80	11	52



DP-225ZT

ART NO	A inch	B mm	C mm	NW g
225ZT-16	5/8	80	11	39
225ZT-19	3/4	80	11	41
225ZT-25	1	80	11	43



DP-5025ZN

ART NO	A inch	B mm	C mm	NW g
5025ZN-12	1/2	79	11	29
5025ZN-19	3/4	84	11	33
5025ZN-25	1	86	11	38



DP-5025ZT

ART NO	A inch	B mm	C mm	NW g
5025ZT-16	5/8	75	11	28
5025ZT-19	3/4	74	11	29
5025ZT-25	1	74	11	31



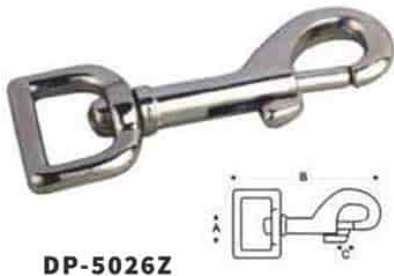
DP-225ZL

ART NO	A inch	B mm	C mm	NW g
225ZL-16	5/8	90	10	42
225ZL-19	3/4	90	10	44
225ZL-22	7/8	95	10	47
225ZL-25	1	97	10	48



DP-017ZL

ART NO	A inch	B mm	C mm	NW g
017ZL-19	3/4	84	10	42
017ZL-25	1	84	10	45
017ZL-32	1-1/4	84	10	48



DP-5026Z

ART NO	A inch	B mm	C mm	NW g
5026Z-16	5/8	75	11	30
5026Z-19	3/4	75	11	32
5026Z-25	1	75	11	34
5026Z-38	1-1/2	75	11	36



DP-225Z

ART NO	A inch	B mm	C mm	NW g
225Z-12	1/2	84	11	40
225Z-16	5/8	86	11	42
225Z-19	3/4	90	11	43
225Z-22	7/8	91	11	45
225Z-25	1	93	11	46
225ZN-19	3/4	87	11	43



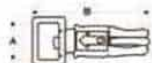
DP-126Z

ART NO	A mm	B mm	C mm	NW g
126Z-50	11	50	8	17
126Z-60	13	60	9	30
126Z-70	15	70	11	44
126Z-85	18	85	13	80
126Z-100	21	100	17	124
126Z-120	25	120	19	214



DP-1001Z

ART NO	A inch	B mm	NW g
1001Z-12	1/2	100	125
1001ZN-12	1/2	100	143



DP-1002Z

ART NO	A inch	B mm	NW g
1002Z-16	3/4"	107	137
1002Z-25	1"	107	139
1002Z-32	1 1/4"	107	142



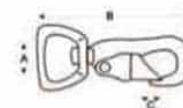
DP-1003Z

ART NO	A inch	B mm	NW g
1003Z-19	3/4"	119	140
1003Z-25	1"	123	144
1003Z-32	1 1/4"	128	148



DP-830ZS

ART NO	A inch	B mm	C mm	NW g
830ZS-10	3/8"	67	7	28
830ZS-12	1/2"	68	7	28.5
830ZS-16	5/8"	70	7	30
830ZS-19	3/4"	72	7	31



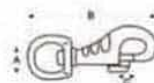
DP-848ZS

ART NO	A inch	B mm	C mm	NW g
848ZS-16	5/8"	68	7	28.5
848ZS-19	3/4"	67	7	28.5
848ZS-25	1"	67	7	28.5



DP-1011Z

ART NO	A inch	B mm	NW g
1011Z-19	3/4"	100	103
1011Z-25	1"	100	108



DP-59Z

ART NO	A inch	B mm	C mm	NW g
59Z-12	1/2"	85	12.5	43
59Z-16	5/8"	86	12.5	45
59Z-19	3/4"	91	12.5	46
59Z-22	7/8"	92	12.5	48
59Z-25	1"	94	12.5	49



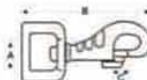
DP-125Z

ART NO	A inch	B mm	C mm	NW g
125Z-12	1/2"	83	12	34
125Z-16	5/8"	86	12	35
125Z-19	3/4"	88	12	36



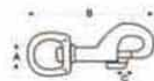
DP-47Z

ART NO	A inch	B mm	C mm	NW g
47Z-12	1/2"	72	10	39
47Z-16	5/8"	74	10	41
47Z-19	3/4"	78	10	42
47Z-22	7/8"	80	10	44
47Z-25	1"	82	10	45



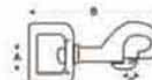
DP-60Z

ART NO	A inch	B mm	C mm	NW g
60Z-16	5/8"	80	12.5	42
60Z-19	3/4"	80	12.5	44
60Z-22	7/8"	80	12.5	45
60Z-25	1"	80	12.5	46



DP-225HZ

ART NO	A inch	B mm	C mm	NW g
225HZ-16	5/8"	96	12	60
225HZ-19	3/4"	99	12	64
225HZ-25	1"	102	12	66
225HZ-28	1 1/4"	103	12	68
225HZ-32	1 1/2"	110	12	70
225HZH-25	1"	109	12	80



DP-48Z

ART NO	A inch	B mm	C mm	NW g
48Z-16	5/8"	70	10	39
48Z-19	3/4"	70	10	40
48Z-22	7/8"	70	10	41
48Z-25	1"	70	10	42



DP-58ZT

ART NO	A inch	B mm	C mm	NW g
58ZT-16	5/8"	78	10	45
58ZT-19	3/4"	78	10	46
58ZT-25	1"	78	78	48



DP-161Z-63Z

ART NO	A Inch	B mm	C mm	NW g
161Z	10	88	10	35
162Z	10	100	10	47
163Z	12	115	12	70



DP-251Z

ART NO	A Inch	B mm	C mm	NW g
251Z-12	1/2"	81	12	50
251Z-16	5/8"	82	12	54
251Z-19	3/4"	86	12	56
251Z-22	7/8"	87	12	58
251Z-25	1"	89	12	60
251Z-32	1 1/4"	98	12	70



DP-234Z

ART NO	A Inch	B mm	C mm	NW g
234Z-20	3/4"	45	5.5	8



DP-236Z

ART NO	A Inch	B mm	C mm	NW g
236Z-38	1 1/4"	60	7	14



DP-844Z

ART NO	A Inch	NW g
844Z-2	3/32"	35
844Z-3	1/8"	35
834Z-3	1/8"	85



DP-5079Z

ART NO	A mm	NW g
5079Z	1.5	15
5025Z	2.5	42
225Z	3.5	52



DP-3726Z

ART NO	A Inch	B mm	C mm	NW g
3726Z-19	3/4"	65	6	38
3726Z-25	1"	65	6	38.5



DP-238Z

ART NO	A Inch	B mm	C mm	NW g
3238Z-40	1 1/2"	119	13	130



DP-T225Z

ART NO	A Inch	B mm	NW g
T225Z-28	1 1/4"	130	80



DP-232Z

ART NO	A Inch	B mm	C mm	NW g
232Z-12	1/2"	50	4	7
232Z-19	3/4"	60	5.5	30



DP-437Z

ART NO	A Inch	B mm	C mm	NW g
437Z-10	3/8"	63	5	16
437Z-12	1/2"	63	5	16.5
437Z-16	5/8"	65	5	18
437Z-19	3/4"	68	5	19

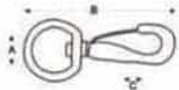


DP-5037Z

ART NO	A Inch	B mm	C mm	NW g
5037Z-10	3/8"	65	5	17.5



DP-334Z



ART NO	A inch	B mm	C mm	NW g
334Z-10	3/8"	50	5	10
334Z-12	1/2"	52	5	12



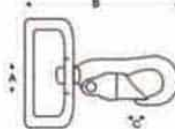
DP-5013ZS



ART NO	A inch	B mm	NW g
5013ZS-10	3/8"	63	26
5013ZS-12	1/2"	63	26.5
5013ZS-16	5/8"	65	28
5013ZS-19	3/4"	66	30



DP-1605Z



ART NO	A inch	B mm	C mm	NW g
1605Z-25	1"	65	10	32
1605Z-38	1 1/2"	65	10	35



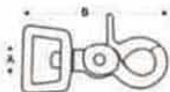
DP-100Z



ART NO	A inch	B mm	C mm	NW g
100Z-22	7/8"	61	9	45
100Z-25	1"	61	9	46
100Z-38	1 1/2"	61	9	50



DP-5015ZS



ART NO	A inch	B mm	NW g
5015ZS-16	5/8"	62	28
5015ZS-19	3/4"	62	29
5015ZS-25	1"	62	31



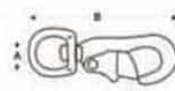
DP-5013Z



ART NO	A inch	B mm	NW g
5013Z-10	3/8"	66	30
5013Z-12	1/2"	65	36
5013Z-16	5/8"	67	37
5013Z-19	3/4"	71	39
5013Z-22	7/8"	73	40
5013Z-25	1"	76	43



DP-3142Z



ART NO	A inch	B mm	NW g
3142Z-22	7/8"	100	120
3142Z-25	1"	100	120



DP-3143Z



ART NO	A inch	B mm	NW g
3143Z-25	1"	100	125
3143Z-32	1 1/4"	100	140



DP-578Z



ART NO	A inch	B mm	NW g
578Z-6	1/4"	40	5.5
578Z-10	3/8"	40	5.5



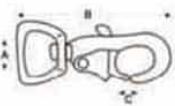
DP-5051Z



ART NO	A inch	B mm	NW g
5051Z-6	1/4"	60	12
5051Z-10	3/8"	70	21
5051Z-12	1/2"	95	41
5051Z-16	5/8"	125	71



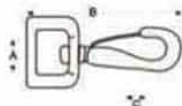
DP-242Z



ART NO	A inch	B mm	NW g
242Z-12	1/2"	40	6
242Z-16	5/8"	40	6
242Z-19	3/4"	40	6
242Z-25	1"	40	6.5



DP-200Z



ART NO	A inch	B mm	C mm	NW g
200Z-12	1/2"	75	12	31
200Z-16	5/8"	75	12	33
200Z-19	3/4"	75	12	34
200Z-22	7/8"	75	12	35
200Z-25	1"	75	12	36
200Z-32	1 1/4"	75	12	38



DP-98Z

ART NO	A Inch	B mm	C mm	NW g
98Z-8	5/16"	38	5	8.5
98Z-10	3/8"	40	6	7



DP-231Z

ART NO	A Inch	B mm	NW g
231Z-4"	1/2"	4	50
231Z-3-1/2"	1/2"	3-1/2"	57



DP-848Z

ART NO	A Inch	B mm	C mm	NW g
848Z-18	5/8"	80	10	48
848Z-19	3/4"	80	10	49
848Z-22	7/8"	80	10	61
848Z-25	1"	80	10	52
848Z-32	1-1/4"	80	10	52
848Z-38	1-1/2"	80	10	57
848Z-50	2"	80	10	61



DP-850Z

ART NO	A Inch	B mm	C mm	NW g
850-18	5/8"	85	12	82
850Z-19	3/4"	88	12	83
850Z-25	1"	101	12	88
850Z-28	1-1/8"	103	12	89
850Z-32	1-1/4"	110	12	70



DP-5079ZR

ART NO	A Inch	B mm	C mm	NW g
5079ZR-10	3/8"	53	7	10
5079ZR-12	1/2"	56	7	12.5



DP-50Z

ART NO	A Inch	B mm	C mm	NW g
50Z-12	1/2"	80	10	38
50Z-18	5/8"	82	10	39
50Z-19	3/4"	84	10	40
50Z-22	7/8"	86	10	41
50Z-25	1"	88	10	43



DP-9001Z

ART NO	A Inch	B mm	C mm	NW g
9001Z-16	5/8"	64	5	27
9001Z-19	3/4"	64	5	28
9001Z-25	1"	64	5	30
9001Z-38	1-1/2"	64	5	35



DP-9000Z

ART NO	A Inch	B mm	C mm	NW g
9000Z-10	3/8"	65	5	26
9000Z-12	1/2"	65	5	27
9000Z-16	5/8"	67	5	28
9000Z-19	3/4"	70	5	29



DP-52Z

ART NO	A Inch	B mm	C mm	NW g
52Z-18	5/8"	76	10	37
52Z-19	3/4"	75	10	38
52Z-22	7/8"	76	10	38
52Z-25	1"	75	10	40



DP-52ZT

ART NO	A Inch	B mm	C mm	NW g
52ZT-18	5/8"	75	10	37
52ZT-19	3/4"	75	10	38
52ZT-22	7/8"	76	10	38
52ZT-25	1"	76	10	40



DP-3144Z

ART NO	A Inch	B mm	C mm	NW g
3144Z-22	7/8"	88	18	132



DP-3147Z

ART NO	A Inch	B mm	C mm	NW g
3147Z-20	3/4"	90	11	135



DP-340Z

ART NO	A Inch	B mm	C mm	NW g
340Z-12	1/2"	50	6	10
340Z-16	5/8"	50	5	10
340Z-19	3/4"	50	6	11



DP-341Z

ART NO	A Inch	B mm	C mm	NW g
341Z-10	3/8"	50	6	10



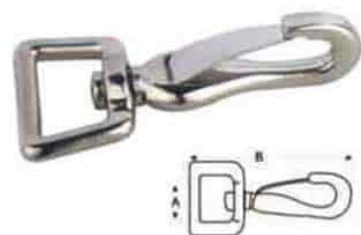
DP-5015Z

ART NO	A Inch	B mm	NW g
5015HZ-25	1"	90	71
5015HZ-32	1-1/4"	90	76



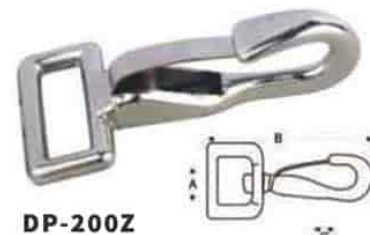
DP-5018Z

ART NO	A Inch	B mm	NW g
5018Z-19	3/4"	55	24



DP-435Z

ART NO	A Inch	B mm	C mm	NW g
437Z-16	5/8"	62	5	17
437Z-18	3/4"	62	5	16
437Z-26	1"	62	6	20



DP-200Z

ART NO	A Inch	B mm	C mm	NW g
200Z-12	1/2"	76	12	31
200Z-16	5/8"	75	12	33
200Z-19	3/4"	76	12	34
200Z-22	7/8"	76	12	35
200Z-26	1"	76	12	36
200Z-32	1-1/4"	76	12	36



DP-5019Z

ART NO	A Inch	B mm	NW g
5019Z-19	3/4"	63	32



DP-6013Z

ART NO	A Inch	B mm	C mm	NW g
6013Z-19	1/2"	60	9	15
7613Z-13	1/2"	76	12	30
7318Z-18	5/8"	73	9	35
8318Z-16	5/8"	83	9	40



DP-202Z

ART NO	A Inch	B mm	C mm	NW g
202Z-16	5/8"	77	12	33
202Z-19	3/4"	80	12	34



DP-5013HZ

ART NO	A Inch	B mm	NW g
5013Z-19	3/4"	97	89
5013Z-22	7/8"	98	70
5013Z-26	1"	100	73



DP-25Z

ART NO	A Inch	B mm	C mm	NW g
25Z-22	7/8"	61	12	36
26Z-26	1"	61	12	37
26Z-50	2"	66	12	80



DP-235Z

ART NO	A Inch	B mm	C mm	NW g
235Z-6	5/16"	46	4.5	9
235Z-10	3/8"	56	8	11
236Z-12	1/2"	72	9	23



DP-236Z-2

ART NO	A Inch	B mm	C mm	NW g
236Z-18	5/8"	82	9	18
236Z-20	3/4"	82	9	19
236Z-25	1"	82	9	20
236Z-32	1-1/4"	82	9	22
236Z-38	1-1/2"	82	9	24



DP-820Z

ART NO	A Inch	B mm	NW g
820Z-32	1-1/4"	74	34



DP-20182Z

ART NO	A Inch	B mm	C mm	NW g
DP-20182Z	3/4"	20	82	31.3
DP-20182Z	1"	25	74	85.7



DP-20184Z

ART NO	A Inch	B mm	C mm	NW g
DP-20184Z	1-1/4"	32.6	91	108



DP-237Z

ART NO	A Inch	B mm	C mm	NW g
237Z-20	3/4"	76	6	60



DP-808Z

ART NO	A Inch	B mm	NW g
808Z-25	1"	58	32
808Z-32	1-1/4"	68	38
808Z-38	1-1/2"	58	40
808Z-50	2"	68	45



DP-20185Z

ART NO	A Inch	B mm	C mm	NW g
DP-20185Z	1-1/4"	32.4	80	89
DP-20185Z	1-1/2"	38.2	83	94
DP-20185Z	2"	50	80	110



DP-20186Z

ART NO	A Inch	B mm	C mm	NW g
DP-20186Z	1"	26	60	80
DP-20186Z	1-1/2"	37.7	71	80



DP-26Z

ART NO	A Inch	NW g
26Z-12	5/8"	23
26Z-20	3/4"	36
26Z-25	1"	49



DP-139Z

ART NO	A Inch	NW g
139Z-15	15*50	19
139Z-20	20*70	38.5
139Z-25	25*70	98.3
139Z-25	25*80	71.5



DP-Z0131

ART NO	Material	A mm	B mm
DP-Z0131	Steel	50	25
	Zinc alloy	50	22/24/28/32/38

SURFACE FINISHINGS





DP-9482Z

ART NO	A inch	NW g
9482Z-10	3/8"	3.5
9482Z-16	5/8"	12
9482Z-19	3/4"	16
9482Z-25	1"	32
9482Z-32	1 1/4"	45
9482Z-38	1 1/2"	55



DP-2300Z

ART NO	A inch	NW g
2300Z-12	1/2"	2.5
2300Z-16	5/8"	3
2300Z-19	3/4"	3.5
2300Z-25	1"	6



DP-2972Z

ART NO	A inch	NW g
2972Z-50	2"	52



DP-5701Z

DP-5702Z

ART NO	A inch	NW g
5701Z-25	1"	66
5702Z-25	1"	42



DP-5706Z

ART NO	A inch	NW g
5706Z-19	3/4"	42
5706Z-25	1"	52



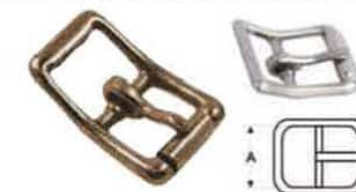
DP-144Z

ART NO	A inch	B mm	NW g
144Z-30	1 1/4"	60	45



DP-75Z

ART NO	A inch	NW g
75Z-19	3/4"	9
75Z-25	1"	14



DP-923Z

ART NO	A inch	NW g
923Z-10	3/8"	5
923Z-12	1/2"	6
923Z-16	5/8"	8
923Z-19	3/4"	11
923Z-25	1"	21



DP-369Z

ART NO	A inch	NW g
369Z-19	3/4"	40
369Z-25	1"	50



DP-146Z

ART NO	A inch	NW g
146Z-25	1"	52



DP-Z0594

ART NO	A inch	B mm	NW g
Z0594-13	13	35	7
Z0594-17	17	40	18
Z0594-20	20	53	20.2
Z0594-26	26	53	23.2



DP-0308Z

ART NO	A inch	B mm	NW g
0308Z-37	1-1/2"	48	28



DP-370Z

ART NO	A Inch	NW g
370Z-19	3/4"	47
370Z-26	1"	67



DP-705Z

ART NO	A Inch	NW g
705Z-26	1"	26



DP-225LM

ART NO	Size Inch	Eye mm	length mm	NW g
225LM	1"	26.1	66	67.2
225LM	3/4"	20.2	53	52.9
225LM	11/16"	17.2	47.3	50



DP-245M

ART NO	Size Inch	Eye mm	length mm	NW g
245M	1/2"	15	160	260



DP-147Z

ART NO	A Inch	NW g
147Z-12	1/2"	10
147Z-16	5/8"	13
147Z-19	3/4"	17
147Z-26	1"	30



DP-Z280

ART NO	SIZE
Z-10	10*17mm
Z-15	15*24mm
Z-20	20*34mm
Z-25	26*41mm



DP-5055KM

ART NO	Size Inch	Eye mm	length mm	NW g
5055KM	1/2"	11	62.6	16.5



DP-5025ZM

ART NO	Size Inch	Eye mm	length mm	NW g
5025ZM	6/8"	16.5	79.9	36.1



DP-Z281

ART NO	SIZE
Z-15	15
Z-20	20
Z-25	26
Z-40	40



DP-Z282

ART NO	SIZE
Z-15	16*30mm
Z-20	26*48mm



DP-S283



DP-225HHBM

ART NO	Size Inch	Eye mm	length mm	NW g
225HHBM	1-1/4"	90	90	115.7



DP-709ZM

ART NO	Size Inch	Eye mm	length mm	NW g
709ZM	1/2"	11.5	62	13.5



DP-1002M

ART NO	Size Inch	Eye mm	length mm	NW g
1002M	1"	29.4	116	168



DP-1002LM

ART NO	Size Inch	Eye mm	length mm	NW g
1002LM	1"	27	120	164.4



DP-1001M

ART NO	Size Inch	Eye mm	length mm	NW g
1001M	9/16"	14.1	100	136.4



DP-227M

ART NO	Size Inch	Eye mm	length mm	NW g
227M	1-1/8"	29.6	81.3	72



DP-3142M

ART NO	Size Inch	Eye mm	length mm	NW g
3142M	1"	26.7	106.5	147.8
3143M	7/8"	21.5	104.5	141



DP-3142LM

ART NO	Size Inch	Eye mm	length mm	NW g
3142LM	1-1/4"	30.2	87.8	151.8



DP-5013S

AISI 304 OR AISI 316

Items No	SIZE(mm)	A	B	C	D	E
DP-5013S	1/2*85	68.5	15.5	10.5	4.2	7.0



DP-225LS

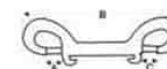
AISI 304 OR AISI 316

Items No	SIZE(mm)	A	B	C	D
DP-225LS	3/8*65	11.5	3.5	8.0	68.0
DP-226LS	1/2*72	18.5	4.0	9.5	73.0
DP-226LS	5/8*82	17.5	4.5	10.0	84.0
DP-226LS	3/4*91	21.5	5.0	11.5	92.0
DP-225LS	1*100	26.5	5.5	12.0	101.0
DP-226LS	1-1/4*128	34.0	8.0	14.0	127.0



DP-161S

ART NO	A mm	B mm	NW g
161S	8.5	75	35
162S	10.5	90	60
163S	10.5	100	68
164S	12	115	90



DP-017S

AISI 304 OR AISI 316

Items No	SIZE(mm)	A	B	C	D
DP-017S	5/8*59	17.5	3.5	9.0	60.0
DP-017S	3/4*66	23.5	4.0	9.5	67.0
DP-017S	1*73	25.5	4.5	10.0	74.0
DP-017S	1-1/8*80	31.5	5.0	11.0	81.0
DP-017S	1-1/4*85	36.5	5.5	12.0	88.0
DP-017S	1-1/2*105	42.5	6.0	14.0	107.0

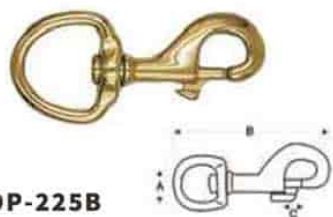


DP-225S

AISI 304 OR AISI 316

Items No	SIZE(mm)	A	B	C	D
DP-225S	1/2*83	14.5	3.5	9.0	64.0
DP-225S	5/8*71	17.5	4.0	9.5	72.0
DP-225S	3/4*81	22.0	4.5	10.0	82.0
DP-225S	1*90	26.0	5.0	11.0	91.0
DP-225S	1-1/8*97	29.0	5.5	12.0	98.0
DP-225S	1-1/4*119	34.5	6.0	14.0	120.0





DP-225B

ART NO	A Inch	B mm	C mm	NW g
225B	20	82	9	67
225B	22.3	82	9	61
225B	28.5	80	10	83.5



DP-225HB

ART NO	A Inch	B mm	C mm	NW g
225HB-30	1-1/8"	114	17	108
225HB-32	1-1/4"	118	17	117



DP-3002B

ART NO	A Inch	B mm	C mm	NW g
3002B	28	110	18	165
3002BL	29	118	18	268.9



DP-1008B

ART NO	A Inch	B mm	C mm	NW g
1008B	15	100	10	49.2
1008B	17	148	17	164.6



DP-5513B

ART NO	A Inch	B mm	C mm	NW g
5013B-12	1/2"	67	15	37



DP-5015B

ART NO	A Inch	B mm
5015B-12	1/2"	61
5015-18	5/8"	62
5015B-20	3/4"	63
5015B-25	1"	64.5



DP-161B-163B

ART NO	A Inch	B mm	C mm	NW g
161B	10	90	10	43
162B	11	100	11	47
163B	13	120	13	77



DP-249B

ART NO	A Inch	B mm	C mm	NW g
249B-0	3/8"	54	7	20
249B-1	5/8"	69	7	34
249B-2	11/16"	80	12	44
249B-3	3/4"	88	16	86



DP-251B

ART NO	A Inch	B mm	C mm	NW g
251B-1	3/4"	86	10	64
251B-2	7/8"	93	13	76
251B-3	7/8"	115	15	117



DP-334B

ART NO	A Inch	B mm	C mm	NW g
334B-10	3/8"	83	6	12



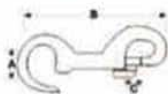
DP-25B

ART NO	A Inch	B mm
25B-01	7/8"	83
25B-02	1"	83
25B-03	2"	83



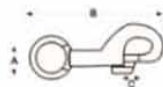
DP-200B

ART NO	A Inch	B mm
200B-16	5/8"	69
200B-20	3/4"	69
200-25	1"	75



DP-230B

ART NO	A inch	B mm
230B-01	3-1/8 "	80
230B-02	3-3/8 "	85
230B-03	3-1/2 "	88



DP-1250B

ART NO	A inch	B mm
1250B-01	3/8 "	86



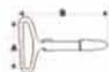
DP-1003B

ART NO	A inch	B mm
1003B-01	5/8 "	93
1003B-02	3/4 "	93
1003B-03	1 "	98



DP-3142B

ART NO	A inch	B mm
3142B-01	1 "	97



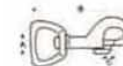
DP-3726B

ART NO	A inch	B mm
3726B-12	1/2 "	64
3726B-16	5/8 "	64
3726B-19	3/4 "	64
3726B-25	1 "	68



DP-56B

ART NO	A inch	B mm
56B-01	5/8 "	64
56B-02	7/8 "	67



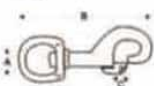
DP-017B

ART NO	A inch	B mm
017B-16	5/8 "	78
017B-20	3/4 "	78
017B-25	1 "	80



DP-545B

ART NO	A inch	B mm	C mm	NW g
545B	12	77	10	44.4
545B	18.8	83	10	52.8



DP-5055B

ART NO	A inch	B mm
5055B-10	3/8 "	61
5055B-12	1/2 "	62
5055B-16	5/8 "	62
5055B-19	3/4 "	62
5055B-25	1 "	66



DP-017B

ART NO	A inch	B mm
017B-01	1 "	78
017B-02	1-1/2 "	78
017B-03	2 "	79



DP-2311B

ART NO	A inch	B mm
2311B-01	3/4 "	109
2311B-02	1-1/8 "	119



DP-4979B

ART NO	A inch	B mm
4979B-01	7/8 "	92



DP-5B

ART NO	Size Inch	inner width mm	length mm
5B-12	1/2 "	14.5	27
5B-16	5/8 "	17	29
5B-19	3/4 "	20	34
5B-25	1 "	23	44



DP-12B

ART NO	Size Inch	inner width mm	length mm
12B-10	5/8 "	11.5	23
12B-12	1/2 "	12.8	26
12B-16	5/8 "	16.5	30.5
12B-19	3/4 "	19.3	35
12B-22	7/8 "	23	35
12B-25	1 "	26	40



DP-369B

ART NO	Size Inch	inner width mm
369B-12	1/2 "	13.5
369B-16	5/8 "	16
369B-19	3/4 "	20
369B-25	1 "	27



DP-210B

ART NO	Size Inch	inner width mm
210B-16	5/8 "	13
210B-19	3/4 "	16
210B-25	1 "	20



DP-49B

ART NO	A Inch	B mm	C mm	NW g
49B	17.6	20		15.3
49B	20.7	22		26.2
49B	26	30		33
49B	32	33.8		43
49B	39	40.8		56.8



DP-50B

ART NO	Size Inch	inner width mm	length mm
50B-16	5/8 "	18	26
50B-19	3/4 "	22	32
50B-25	1 "	23	36



DP-370B

ART NO	Size Inch	inner width mm
370B-16	5/8 "	17
370B-19	3/4 "	20.3
370B-22	7/8 "	23.3
370B-25	1 "	27.3



DP-5026B

ART NO	A Inch	B mm	C mm	NW g
5026B	14	21	3.6	3.8
5026B	16.7	23.8	3.6	5.7
5026B	19.6	27.8	4	7.6
5026B	22.3	30.9	4.3	10
5026B	28.8	35.8	4.5	13.4
5026B	30.4	41	6.3	18.6
5026B	32.4	42.4	6	19.8
5026B	38.8	52	6.6	36.7



DP-121B

ART NO	Size Inch	inner width mm	length mm
121B-12	1/2 "	15.5	34
121B-16	5/8 "	17.4	36
121B-19	3/4 "	20.4	42.6
121B-22	7/8 "	25.6	46
121B-25	1 "	26.8	50.3



DP-40B

ART NO	Size Inch	inner width mm	length mm
40B-16	5/8 "	16	21
40B-19	3/4 "	19.5	34
40B-25	1 "	26	43



DP-2008B

ART NO	Size Inch
2008B-16	5/8 "
2008B-19	3/4 "
2008B-25	1 "
2008B-38	1-1/2 "
2008B-50	2 "



DP-4525B

ART NO	A Inch	B mm	C mm	NW g
4525B	12.4	12.9	3.7	4.9
4525B	14.8	16	3.3	6
4525B	17.2	20	4.4	9
4525B	20.7	23	3.4	8.5
4525B	22.9	28	4.8	13.3
4525B	24	29	4.5	16.8
4525B	33	36	5.2	28.1



DP-26B

ART NO	Size inch
26B-19	3/4 "
26B-22	7/8 "
26B-25	1 "



DP-106B

ART NO	Size inch
106B-01	1-7/8 "
106B-02	2-3/8 "
106B-03	2-3/4 "



DP-C001

ART NO	Size
DP-C001	2.5mm*45CM
	3mm*50CM
	3.5mm*55CM
	4mm*60CM



DP-C002

ART NO	Size
DP-C002	3mm*50CM
	4mm*60CM



DP-0556B

ART NO	Size inch
0556B-38	1-1/2 "



DP-167B

ART NO	Size inch
167B-01	50
167B-02	70
167B-03	90



DP-C003

ART NO	Size
DP-C003	1.6mm*30CM
	2mm*40CM
	2.5mm*50CM
	3mm*55CM
	3.5mm*60CM
	4mm*65CM
	3mm*50CM



DP-C004

ART NO	Size
DP-C004	2mm*35CM
	3mm*40CM
	4mm*50CM
	5mm*60CM



DP-181B

ART NO	Size inch
181B	1 "



DP-178B

ART NO	Size inch
178B-10	3/8 "
178B-12	1/2 "
178B-16	5/8 "
178B-19	3/4 "
178B-22	7/8 "
178B-25	1 "



DP-C005

ART NO	Size
DP-C005	2mm*40CM
	2.5mm*50CM
	3mm*55CM
	3.5mm*60CM
	4mm*65CM
	4mm*65CM



DP-C006

ART NO	Size
DP-C006	1.6mm*30CM
	2mm*40CM
	2.5mm*50CM
	3mm*55CM
	3.5mm*60CM
	4mm*65CM



DP-C007

ART NO	Size
DP-C007	2mm*40CM
	2.5mm*50CM
	3mm*60CM



DP-C008

ART NO	Size
DP-C008	2mm*40CM
	2.5mm*50CM
	3mm*60CM



DP-C009

ART NO	Size
DP-C009	2.5mm*30CM
	3mm*40CM
	3.5mm*50CM
	4mm*60CM



DP-C010

ART NO	Size
DP-C010	3mm*180CM
	4mm*180CM
	5mm*180CM



DP-C011

ART NO	Size
DP-C011	1.6mm*120CM
	2mm*120CM
	2.5mm*120CM
	3mm*120CM
	3.5mm*120CM
	4mm*120CM



DP-C012

ART NO	Size
DP-C012	3mm*120CM
	3.5mm*120CM
	4mm*120CM



DP-L001

ART NO	Size
DP-L001	1CM*120CM
	1.5CM*120CM
	2CM*120CM
	2.5CM*120CM



DP-L002

ART NO	Size
DP-L002	1CM*120CM
	1.5CM*120CM
	2CM*120CM
	2.5CM*120CM



DP-L003

ART NO	Size
DP-L003	1CM*120CM
	1.3CM*120CM
	1.5CM*120CM



DP-L004

ART NO	Size
DP-L004	1.3CM*120CM
	1.5CM*120CM



DP-L005

ART NO	Size
DP-L005	2.5CM*120CM



DP-L006

ART NO	Size
DP-L006	0.8CM*120CM
	1CM*120CM
	1.2CM*120CM



DP-L007

ART NO	Size
DP-L007	3mm*6M
	5mm*3M
	5mm*5M
	5mm*10M



DP-T001

ART NO	Size
DP-L001	8mm*45CM
	9mm*45CM
	6mm*40CM



DP-T002

ART NO	Size
DP-T002	8mm*45CM



DP-T003

ART NO	Size
DP-003	5 "
	6 "
	6.5 "
	7 "
	8 "



DP-T004

ART NO	Size
DP-T004	5 "
	6 "
	6.5 "
	7 "
	8 "



DP-T005

ART NO	Size
DP-005	5 "
	6 "
	6.5 "
	7 "
	8 "

Stainless steel ring snaffle bit



DP-S001

Stainless steel Dee bit



DP-S002

Stainless steel full cheek bit



DP-S003

Stainless steel Chifney bit



DP-S004

spurs with rowel



DP-S005

Soft Touch spurs



DP-S006

Smooth Knob spurs



DP-S007

Zinc diecast spurs



DP-S008

Stainless steel stirrup



DP-S009

Stainless steel stirrup



DP-S010

Stainless steel flexible stirrup with rubber cover



DP-S011

Aluminum stirrup



DP-S012



DP-S013



DP-S014



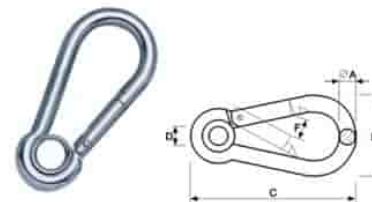
DP-S015



DP-S016

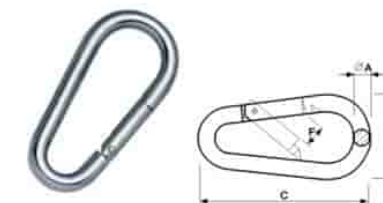
Rigings

- Rigid design ensures stability and strength.
- Made of durable zinc alloy, aluminum, stainless steel and iron.
- Ideal for high tension products and cordoning fences with cables or wires. Lighten your load with these premium-grade riggings.



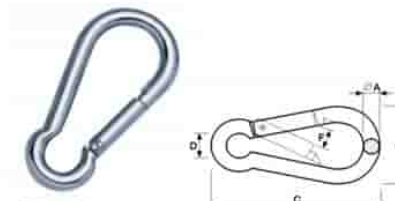
DR-Z0019
SNAP HOOK WITH EYELET DIN 5299 FORM A

SIZE	A	B	C	D	E	F	W.L.L.
mm	mm	mm	mm	mm	mm	mm	mm
4X40	4	20	40	5	7	80	
5X50	5	25	50	5	7	100	
6X60	6	30	60	5	8	140	
7X70	7	35	70	7	8	200	
8X80	8	40	80	10	9	250	
9X90	9	45	90	10	10	280	
10X100	10	50	100	12	11	400	
11X120	11	57	120	13	16	500	
12X140	12	67	140	15	19	600	
13X160	13	74	160	17	25	700	
14X180	14	86	180	17	35	900	



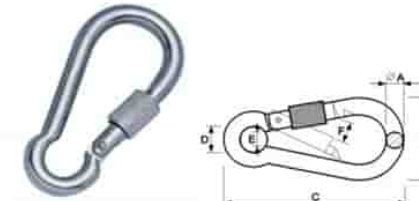
DR-Z0020
EGG TYPE SNAP HOOK DIN 5299 FORM B

SIZE	A	B	C	D	E	F	W.L.L.
mm	mm	mm	mm	mm	mm	mm	mm
4X40	4	20	40	5	7	80	
5X50	5	25	50	5	7	100	
6X60	6	30	60	5	8	140	
7X70	7	35	70	7	8	200	
8X80	8	40	80	10	9	250	
9X90	9	45	90	10	10	280	
10X100	10	50	100	11	11	400	
11X120	11	57	120	16	16	500	
12X140	12	67	140	19	19	600	



DR-Z0021
SNAP HOOK DIN 5299 FORM C

SIZE	A	B	C	D	E	F	W.L.L.
mm	mm	mm	mm	mm	mm	mm	mm
4X40	4	20	40	5	7	80	
5X50	5	25	50	5	7	100	
6X60	6	30	60	5	8	140	
7X70	7	35	70	7	8	200	
8X80	8	40	80	12	9	250	
9X90	9	45	90	12	10	280	
10X100	10	50	100	16	11	400	
11X120	11	57	120	18	16	500	
12X140	12	67	140	20	19	600	
13X160	13	74	160	22	25	700	
14X180	14	86	180	22	35	900	



DR-Z0020
SNAP HOOK WITH SCREW DIN 5299 FORM D

SIZE	A	B	C	D	E	F	W.L.L.
mm	mm	mm	mm	mm	mm	mm	mm
4X40	4	20	40	5	7	80	
5X50	5	25	50	5	7	100	
6X60	6	30	60	5	8	140	
7X70	7	35	70	7	8	200	
8X80	8	40	80	12	9	250	
9X90	9	45	90	12	10	280	
10X100	10	50	100	16	11	400	
11X120	11	57	120	18	16	500	
12X140	12	67	140	20	19	600	
13X160	13	74	160	22	25	700	
14X180	14	86	180	22	35	900	



DR-Z0023
EGG TYPE WITH EYELET AND SCREW

SIZE	A	B	C	D	E	F	W.L.L.
mm	mm	mm	mm	mm	mm	mm	mm
4X40	4	20	40	5	7	80	
5X50	5	25	50	5	7	100	
6X60	6	30	60	5	8	140	
7X70	7	35	70	7	8	200	
8X80	8	40	80	12	9	250	
9X90	9	45	90	12	10	280	
10X100	10	50	100	15	11	400	
11X120	11	57	120	18	16	500	
12X140	12	67	140	20	19	600	
13X160	13	74	160	22	25	700	
14X180	14	86	180	22	35	900	



DR-Z0024

SIZE	A	B	C	SWL	BL
mm	mm	mm	mm	KGS	KGS
M6x50	5	50	28	10	750
M8x60	6	60	34.5	12.5	1000
M10x80	8	80	46	17	1350
M12x100	10	100	55	23.5	1800
M14x120	12	120	72	28	2250
M16x140	14	140	84	32	2600



DR-Z0025

SIZE mm	ΦA mm	A mm	B mm	C mm
M6x50	4.8	60	28	10.5
M6x60	6.7	60	34.5	12.5
M6x80	7.7	80	45	17
M10x100	9.8	100	58	20.5
M12x120	11.8	120	72	25
M14x140	13.7	140	85	20
M16x160	15.7	160	88	26



DR-Z0026
QUICK LINK

SIZE mm	A mm	L1 mm	L2 mm	F mm	WLL mm
3.5	3.5	36.5	17	8	175
4	4	40	19.5	8.5	550
5	5	49	23	9.5	650
6	6	58	26.5	7.5	875
7	7	65	30.5	8.5	1200
8	8	75	33.5	10.5	1525
9	9	82	36	11.5	1975
10	10	89	40.5	12.5	2300
12	12	107	47.5	14.5	2500
14	14	125	54.5	17	2800



DR-Z0064

SIZE mm	ΦA mm	L1 mm	L2 mm
8	8	80	32
8	8	100	45



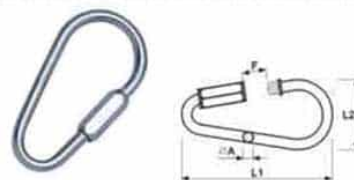
DR-Z0065

SIZE mm	ΦA mm	B mm	C mm	D mm
10x110	10	60	110	18



DR-Z0027

SIZE mm	ΦA mm	L1 mm	L2 mm	F mm	WLL LBS
3.5	3.5	37	31	5	120
5	5	47	40	6	450
6	6	58	47	7.5	800
8	8	73	58	10	1100
10	10	87	65	12	1500
12	12	104	75	15	1650
14	14	122	88	18	1900



DR-Z0028
PEAR SHAPED QUICK LINK

A mm	L1 mm	L2 mm	F mm	WLL mm
3.5	52	27	9.5	120
4	60	32	11	350
5	70	37	12	450
6	81	42.8	14	600
8	100	50.8	17	1100
9	108	57	19	1300
10	117.5	63.5	20.5	1500
12	141	76	23	1650



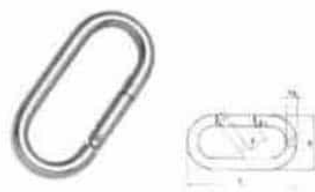
DR-Z0066

SIZE mm	ΦA mm	B mm	C mm	F mm
11x120	11	70	120	27



DR-Z0067

SIZE mm	ΦA mm	B mm	C mm	D mm	E mm
11x120	11	70	120	4	25



DR-Z0062

SIZE mm	ΦA mm	B mm	C mm	F mm	WLL LBS
5x50	5	28	60	9	100
6x60	6	30	60	11	140
8x80	8	40	60	13	250
10x100	10	60	100	16	400
11x120	11	68	120	21	500



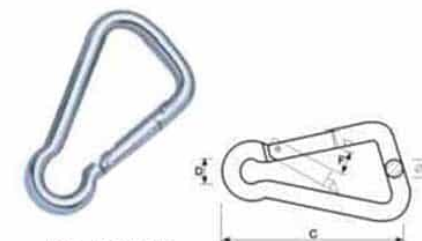
DR-Z0063

SIZE mm	ΦA mm	B mm	C mm	F mm	WLL LBS
5x50	5	25	60	8	100
6x60	6	30	60	11	140
8x80	8	40	60	13	250
10x100	10	60	100	16	400
11x120	11	58	120	21	500



DR-Z0068

SIZE mm	Φ mm	A mm	B mm
6x30	6	42	30
8x35	8	51	35



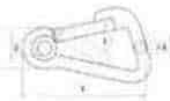
DR-Z0127

SIZE mm	A mm	C mm	D mm	F mm	WLL LBS
5x50	5	50	8	9	100
6x60	6	60	9	10	140
8x80	8	80	12	13	250
10x100	10	100	15	18	400
11x120	11	120	15	24	500



DR-Z0042

SIZE mm	ΦA mm	B mm	C mm	D mm	E mm
422-4	4	17	40	1.5	6
422-5	5	16	50	2.0	8
422-6	6	35	80	2.5	12
422-8	8	40	70	2.5	14
422-10	10	45	80	3.2	15



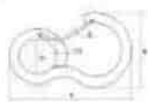
DR-ZS0049

SIZE mm	ΦA mm	C mm	D mm	F mm	WLL LBS
5x50	5	50	5	9	100
6x60	6	60	5	10	140
8x80	8	80	10	13	250
10x100	10	100	13	18	400
11x120	11	120	13	24	500



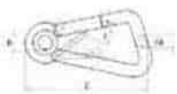
DR-ZS0050

SIZE mm	ΦA mm	B mm	C mm	D mm	E mm
13x190	13	80	160	3	33



DR-Z0051

SIZE mm	ΦA mm	B mm	C mm	D mm	E mm
12x120	12	72	120	24	3.5



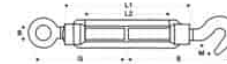
DR-Z0103

SIZE mm	ΦA mm	C mm	D mm	F mm	WLL LBS
5x50	5	50	5	9	100
6x60	6	60	5	10	140
8x80	8	80	10	13	250
10x100	10	100	13	18	400
11x120	11	120	13	24	500



DR-Z0144

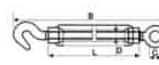
SIZE mm	ΦA mm	L1 mm	L2 mm	F mm	WLL LBS
3.5	3.5	47	17	10	175
5	5	82	23	14	660
6	6	72	28.5	16	875
8	8	80	33.5	18	1525
10	10	105	40.5	20	2500
12	12	122	47.5	23	2800



DR-1390Z

EUROPEAN TYPE ZINC DIECAST TURNBUCKLES

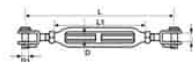
SIZE	L1	L2	B	H	M	NW
M5X50	50	30	8	43	43	30
M5X70	70	50	8	50	50	37
M6X80	80	55	10	52	50	40
M6X100	100	70	10	70	70	47
M8X70	70	45	11	60	55	45
M8X110	110	60	11	60	75	55
M10X80	80	50	12	70	60	55
M10X120	120	80	15	100	95	65
M12X130	130	90	16	105	100	75



DR-Z0006

DIN 1480 STEEL/STAINLESS STEEL TURNBUCKLES

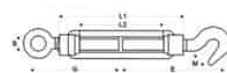
SIZE(D)	L	B	C
M5	70	90	8
M6	110	172-252	9
M8	110	182-257	10
M10	125	213-298	14
M12	125	238-316	16
M14	140	263-353	18
M16	170	320-430	22
M20	200	367-497	24



DR-Z0008

TURNBUCKLE EUROPEAN TYPE

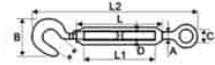
SIZE(D)	L	L1	A	D1
M5	121	70	6	5.2
M6	145	90	7.5	6.2
M8	180	120	10	8.7
M10	225	150	12	9.7
M12	300	200	14	12.6
M16	380	250	16	16



DR-1391Z

U.S. TYPE ZINC DIECAST TURNBUCKLES

SIZE	OVERALL LGTH-CLOSED	OVERALL LGTH-OPEN	TAKE UP	I.D. EYE	HOOK RADIUS	NW
5/32"	3 1/4"	4 1/4"	1 1/4"	1/4"	1/4"	18
3/16"	3 1/4"	5 1/4"	1 1/4"	5/16"	5/16"	26.5
7/32"	4 1/4"	6 1/4"	1 1/4"	3/8"	3/8"	45
1/4"	5 1/4"	7 1/4"	2 1/4"	3/8"	3/8"	81
5/16"	6 1/4"	8 1/4"	2 1/4"	7/16"	7/16"	105
3/8"	7 1/4"	10 1/4"	3"	1/2"	1/2"	171



DR-Z0007

EUROPEAN TYPE STEEL/STAINLESS STEEL TURNBUCKLES

D	L	L1	L2	B	C	S
3/16" (5mm)	70	52	120	13	8	9
1/4" (6mm)	90	78	160	16	10	10
5/16" (8mm)	120	100	200	20	14	11
3/8" (10mm)	150	120	240	28	16	12
1/2" (12mm)	200	168	300	36	18	14
5/8" (16mm)	250	210	390	40	26	16
3/4" (20mm)	300	250	440	50	30	18



DR-1389Z

TURNBUCKLES SERIES

SIZE(D)	L	L1	NW
1389Z	60	34	50



DR-Z0180
EUROPEAN CLOSED BODY TURNBUCKLES

SIZE	A	B	C	D	WLL(LBS)
M5	60.0	7.5	5.0	10.0	250.0
M6	93.0	8.0	6.0	10.0	350.0
M8	104.0	11.0	8.0	11.5	700.0
M10	126.0	12.0	9.0	14.0	1000.0
M12	158.0	15.0	12.0	21.0	1500.0
M14	188.0	15.0	14.0	21.0	1800.0
M16	178.0	17.5	16.0	26.0	2300.0
M20	213.0	19.5	19.0	29.0	3800.0



DR-Z0204
ALUMINUM TURNBUCKLES (HOOK & HOOK)

SIZE	A	B	C	D	E
3/16"	0.26"	1.81"	5.11"	3.84"	
1/4"	0.40"	2.04"	8.35"	4.31"	
5/16"	0.46"	2.82"	8.16"	5.80"	
3/8"	0.60"	2.98"	9.58"	8.83"	



DR-Z0010
DIN 741 WIRE ROPE CLIPS

Size	G	B	H1	H2	F1	F2	L1	L2
3mm	M4	11	20	15	3.7	17.8	4.8	
5mm	M5	13	24	17	3.9	22	5.1	
6mm	M6	13	28	19.5	5	23.5	7	
8mm	M6	20	34	11.7	6	27.4	9.8	
10mm	M8	23	42	13	6.3	31.8	10	
12mm	M8	34.5	44.5	16	6.5	36.5	12	
15mm	M10	30	56	19.5	7.5	42	13	
16mm	M12	30	57	23.8	7.7	44	14.5	
16mm	M12	35	62.5	26.2	9.5	49.5	17.8	
18mm	M12	38	75	31.2	10.8	54.4	22	
22mm	M12	44	86	34.5	10.8	57.5	22.8	
26mm	M14	45	95	35	11	64	27.5	



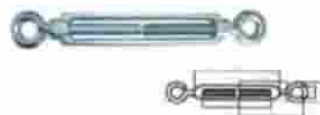
DR-Z0011
U.S. TYPE WIRE ROPE CLIPS

Size (mm)	A	B	C	D	E	F	G
1/32	33/32	13/12	15/32	3/16	3/8	3/32	25/32
1/8	7/8	7/16	8/16	3/16	7/16	1/2	15/16
3/16	3/4	1/2	23/32	5/16	9/16	21/32	13/16
1/4	11/4	19/32	23/32	3/8	23/32	7/8	13/16
5/16	1 1/4	5/8	7/8	5/16	7/8	13/16	13/16
3/8	1 1/4	29/32	29/32	3/8	35/32	1 1/4	13/16
7/16	1 1/4	29/32	29/32	7/16	1 1/4	1 1/4	13/16
1/2	1 1/4	1 1/4	1 1/4	1/2	1 1/4	1 1/4	13/16
9/16	1 1/4	1 1/4	1 1/4	1/2	1 1/4	1 1/4	13/16
5/8	2 1/4	1 1/4	1 1/4	5/8	1 1/4	1 1/4	13/16
3/4	2 1/4	1 1/4	1 1/4	3/4	1 1/4	1 1/4	13/16
7/8	2 1/4	1 1/4	1 1/4	3/4	1 1/4	1 1/4	13/16
1	3 1/4	1 1/4	1 1/4	3/4	1 1/4	1 1/4	13/16



DR-Z0395
COMMERCIAL TYPE MALLEABLE TURNBUCKLES (EYE & HOOK)

SIZE	B	C	E	L	WLL(LBS)
6X100	145	215	10	100	100.0
6X125	185	280	12	125	200.0
10X150	210	325	14	150	300.0
12X200	275	430	18	200	500.0
16X250	345	540	24	250	1000.0
20X300	435	670	28	300	1500.0
22X330	480	740	32	330	2200.0
24X350	555	830	36	350	3000.0



DR-Z0396
KOREAN TYPE MALLEABLE TURNBUCKLES (EYE & EYE)

SIZE	B	C	E	L	WLL(LBS)
3/16"	57.4	41.2	16.4	15	88.0
5/16"	90	70	11	22	320.0
3/8"	180	180	17	30	781.0
1/2"	180	185	20	30	1236.0
1/2"(L)	255	315	30	35	1743.0
5/8"	250	200	25	45	2471.0
5/8"(L)	350	300	30	45	3306.0
3/4"	250	200	35	45	3685.0
3/4"(L)	350	245	40	55	4623



DR-Z0012
SIMPLEX WIRE ROPE CLIP

SIZE (mm)	L (mm)	D (mm)
2	18.5	M4
3	20	M4
4	21.5	M5
5	26	M6
6	30	M6
8	38	M8
10	42	M10



DR-Z0013
DUPLIX WIRE ROPE CLIPS

SIZE (mm)	L (mm)	D (mm)
2	18.5	M4
3	20	M4
4	21.5	M5
5	26	M6
6	30	M6
8	38	M8
10	42	M10



DR-Z0397
U.S. TYPE FORGED STEEL TURNBUCKLES (EYE & HOOK)

SIZE	B	C	E	L	WLL(LBS)
1/4"	7.5"	4"	0.33"	0.39"	300.0
5/16"	8.5"	4.5"	0.41"	0.44"	500.0
3/8"	10.75"	6"	0.51"	0.52"	750.0
1/2"	12"	6"	0.75"	0.55"	1050.0
5/8"	13.5"	6"	0.87"	0.57"	1600.0
3/4"	16.5"	6"	1"	0.9"	2000.0



DR-Z0398
JIS TYPE TURNBUCKLES (EYE & HOOK)

SIZE	A	B	C	D	WLL(LBS)
M4	58	100	7	6.5	25.0
M5	70	115	8	9	40.0
M6	90	145	10	10	100.0
M8	120	185	14	11	200.0
M10	150	230	18	12	300.0
M12	200	280	16	14	600.0
M16	250	375	26	16	800.0
M20	300	450	30	16	1200.0

DR-Z0069
JIS TYPE WIRE ROPE CLIPS

SIZE	B (mm)	C (mm)	F (mm)	G (mm)	H (mm)	I (mm)	E (mm)
3	3.5	15	12	7	9	22	13
4	3.5	17	13	8	9.5	24	15
5	4	20	16	10	9.5	26	16
6	5	25	20	12	4	30	18
8	6	29	21	14	5	35	20
10	6	35	24	16	5.5	40	20
12	7	45	26	22	6	50	26
14	8	51	29	26	10	60	25
16	10	62	32	32	11	75	45
18	11	69	38	34	11	80	50
20-22	12	76	42	40	15	100	60
24-25	13	88	46	46	16	110	65
26-28	14	94	49	54	18	120	70
30-32	16	120	50	70	22	150	85
40-45	19	128	100	86	24	175	95
47-50	21	152	115	80	26	195	100
56-60	25	170	128	101	29	240	115
68-70	27	190	142	115	31	270	130
73-90	29	212	156	122	34	300	150



DR-7300Z

ART NO	A (inch)	NW (g)
7300Z	1/8"	14
7300Z	3/16"	21.5
7300Z	1/4"	28



DR-Z0011(I)

ITALIAN TYPE WIRE ROPE CLIPS

size(mm)	A	B	C	D	E	F	G	H
3.4	21	14	9	4	4.5	9	20	11
5	25	17	10	5	4.5	11	24	12
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	4	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	58	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	18	14	59	140	60



DR-Z0010H

DIN142 WIRE ROPE CLIPS

SIZE	A	B	C	D	E	F	G	H	NW
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(kg/1000Pcs)
5	12	13	14	5	13	25	30	2	
6.5	14	16	17	8	14	30	26	4	
8	18	20	20	8	18	39	38	8.2	
10	20	20	24	8	21	40	28	9.2	
13	24	28	29	12	29	55	52	27.5	
16	34	32	38	14	35	64	62	43	
19	37	33	36	14	40	68	69	49	
22	41	34	40	16	44	74	80	68	
28	46	38	50	20	51	84	91	117	
30	54	41	55	20	59	95	107	140	
34	60	45	60	22	67	105	119	213	
40	68	49	65	24	77	117	135	208	



DR-Z0009

U.S. TYPE FORGED WIRE ROPE CLIPS G-450

SIZE	A	B	C	D	E	F	G
(in)	(in)	(in)	(in)	(in)	(in)	(in)	(in)
1/8"	12	20	33	7/32	10	23	18
3/16"	15	23	34	1/4	12	25	24
1/4"	19	30	45	5/16	16	30	25
5/16"	22	33	49	3/8	18	41	35
3/8"	25	41	59	7/16	23	49	38
7/16"	30	48	70	1/2	28	58	47
1/2"	30	48	70	1/2	28	58	47
9/16"	33	52	76	5/16	31	63	57
5/8"	33	52	76	5/16	34	63	60
3/4"	36	57	83	3/8	35	72	70
7/8"	44	67	101	1/2	40	80	79
1"	47	68	104	5/8	45	88	89
1 1/8"	51	71	108	3/4	48	91	93
1 1/4"	59	80	124	7/8	58	105	108
1 3/8"	60	80	124	7/8	59	106	118
1 1/2"	66	87	130	1	62	112	125
1 5/8"	70	92	135	1	68	121	135



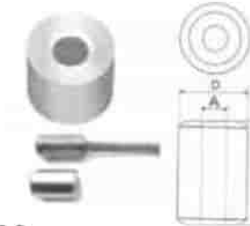
DR-514Z

ART NO	A	NW
(mm)	(mm)	(kg)
514Z-2	2	17
514Z-3	3	17.5
514Z-4	4	36
514Z-5	5	39
514Z-6	6	49



DR-7316Z

ART NO	A	NW
inch	inch	g
7316Z - 1/4"	1/8"	17
7316Z - 3/16"	3/16"	21
7316Z - 1/4"	1/4"	29



DR-Z0106

PART NO.	SIZE	A(mm)	D(mm)	L(mm)	WEIGHT
		Inner Dia.	Outer	Length	Kgs/1000Pcs
SL970364	3/64"	1.54	4.4	4.16	0.236
SL970116	1/16"	1.92	6.35	4.16	0.278
SL970564	5/64"	2.38	6.35	4.16	0.282
SL970332	3/32"	2.9	8.72	7.95	1.05
SL970108	1/8"	3.86	8.72	7.95	0.949
SL970532	5/32"	4.7	11.11	8.73	1.76
SL970316	3/16"	5.54	11.11	8.73	1.69
SL970732	7/32"	6.35	11.11	8.73	1.5
SL970104	1/4"	7.2	17.46	17.46	9.07
SL970516	5/16"	9.53	17.46	17.46	7.46
SL970308	3/8"	11.13	17.46	17.46	6.58
SL970102	1/2"	14.28	26.98	26.98	30.32
SL970916	9/16"	15.88	28.6	31.75	38.52
SL970508	5/8"	17.46	31.75	31.75	47.88

DR-Z0104

PART NO.	SIZE	A	B	C	D	L	WEIGHT
		(in)	(in)	(in)	(in)	(in)	Lbs/100P
SL990104	1/4"	19/64	19/32	17/32	1	2.3	
SL990516	5/16"	3/8	3/4	21/32	1.17/84	4.3	
SL990308	3/8"	7/16	27/32	3/4	1.5/32	1.3/8	5.3
SL990716	7/16"	1/2	1	29/32	1.13/32	1.23/32	11
SL990102	1/2"	19/32	1.11/64	1.1/32	1.5/8	1.15/16	16.5
SL990916	9/16"	23/32	1.3/8	1.7/32	1.57/64	2.7/32	22
SL990508	5/8"	3/4	1.1/2	1.3/8	2.3/32	2.1/2	32
SL990304	3/4"	53/64	1.11/16	1.1/2	2.3/8	2.7/8	52
SL990708	7/8"	61/64	1.7/8	1.11/16	2.5/8	3	67
SL991000	1"	1.3/32	2.7/32	1.31/32	3.3/32	3.3/4	125
SL991108	1 1/8"	1.9/32	2.9/16	2.5/16	3.19/32	4.9/32	172
SL991104	1 1/4"	1.13/32	2.25/32	2.1/2	3.7/8	4.71/8	214
SL991102	1 1/2"	1.21/32	3.19/64	3.1/8	4.3/4	5.35/64	390



DR-Z0105

PART NO.	SIZE	A	B	C	D	L	WEIGHT
(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	Kgs/1000
SL980364	3/64	1.19	1.16	1.59	1/8	3.18	9.5
SL980116	1/16	1.58	5/64	1.98	5/32	3.97	9.5
SL980564	5/64	1.98	3/32	2.38	21/64	4.4	9.5
SL980332	3/32	2.38	1/8	3.18	1/4	6.35	9.5
SL980108	1/8	3.18	5/32	3.97	5/16	7.94	9.5
SL980532	5/32	3.97	3/16	4.76	3/8	9.53	9.5
SL980316	3/16	4.76	7/32	5.56	7/16	11.11	9.5
SL980732	7/32	5.56	1/4	6.35	1/2	12.7	9.5
SL980104	1/4	6.35	9/32	7.14	9/16	14.29	9.5
SL980932	9/32	7.14	5/16	7.94	5/8	15.88	9.5
SL980516	5/16	7.94	3/8	9.53	23/32	19.05	9.5
SL980308	3/8	9.53	7/16	11.11	27/32	22.21	9.5
SL980716	7/16	11.11	1/2	12.7	1	25.4	9.5
SL980102	1/2	12.7	9/16	14.29	1 - 1/8	28.58	9.5
SL980916	9/16	14.29	5/8	15.88	1 - 1/4	31.75	9.5
SL980508	5/8	15.88	11/16	17.46	1 - 3/8	34.93	9.5



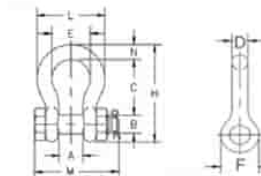
DR-Z0001
EUROPEAN TYPE DEE SHACKLE

SIZE	A	B	C	D	E
4	4	8	16	4	24
5	5	10	20	5	30
6	6	12	24	6	36
8	8	16	32	8	48
10	10	20	40	10	60
12	12	24	48	12	72
14	14	28	56	14	84
16	16	32	64	16	96
18	18	36	72	18	108
20	20	40	80	20	120
22	22	44	88	22	132
24	24	48	96	24	144
28	28	56	112	28	168



DR-Z0002
EUROPEAN TYPE BOW SHACKLE

SIZE	A	B	C	D	E	F
4	4	12	8	16	4	24
5	5	17	10	20	5	30
6	6	20	12	24	6	36
8	8	27	16	32	8	48
10	10	33	20	40	10	60
12	12	39	24	48	12	72
14	14	47	28	56	14	84
16	16	53	32	64	16	96
18	18	62	36	72	18	108
20	20	69	40	80	20	120
22	22	78	44	90	22	132
24	24	87	48	100	24	144
28	28	105	56	112	28	168



DR-Z0052
G2130 BOLE TYPE ANCHOR SHACKLES

Nominal Size (in.)	Working Load Limit (t)	Weight Each (LBS)	Dimensions(in.)								
			A	B	D	F	G	K	M	P	R
1/4	1/2	0.13	0.47	0.31	0.25	0.62	0.91	1.59	0.97	1.56	0.25
5/16	3/4	0.23	0.53	0.38	0.31	0.75	1.07	1.91	1.15	1.82	0.31
3/8	1	0.33	0.66	0.44	0.38	0.92	1.28	2.31	1.42	2.17	0.38
7/16	1-1/2	0.49	0.75	0.50	0.44	1.06	1.48	2.67	1.63	2.51	0.44
1/2	2	0.75	0.81	0.64	0.50	1.18	1.66	3.03	1.81	2.80	0.50
5/8	3-1/4	1.47	1.06	0.77	0.63	1.50	2.04	3.76	2.32	3.56	0.63
3/4	4-3/4	2.52	1.25	0.89	0.75	1.81	2.40	4.53	2.75	4.15	0.81
7/8	6-1/2	3.85	1.44	1.02	0.88	2.10	2.86	5.33	3.20	4.82	0.97
1	8-1/2	5.55	1.69	1.15	1.00	2.38	3.24	5.94	3.69	5.39	1.00
1-1/8	9-1/2	7.60	1.81	1.25	1.13	2.68	3.61	6.78	4.07	5.90	1.25
1-1/4	12	10.81	2.03	1.40	1.25	3.00	3.97	7.50	4.53	6.69	1.38
1-3/8	13-1/2	13.75	2.25	1.53	1.38	3.31	4.43	8.28	5.01	7.21	1.50
1-1/2	17	18.50	2.38	1.66	1.50	3.62	4.87	9.05	5.38	7.73	1.62
1-3/4	25	31.40	2.88	2.04	1.75	4.19	5.82	10.97	6.38	9.33	2.12
2	35	48.75	3.25	2.30	2.10	5.00	6.82	12.74	7.25	10.41	2.36
2-1/2	55	85.00	4.12	2.80	2.63	5.68	8.07	14.85	9.38	13.58	2.63
3	85	124.25	5.00	3.25	3.00	6.50	8.56	16.87	11.00	15.13	3.50



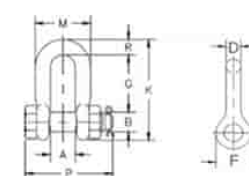
DR-Z0003
LONG DEE SHACKLE

SIZE	A	B	C	D	E
4	4	8	30	4	24
5	5	10	38	5	30
6	6	12	45	6	36
8	8	16	60	8	48
10	10	20	75	10	60
12	12	24	90	12	72



DR-Z0004
JIS TYPE BOW SHACKLE

SIZE	A	B	C	D	E
3/16"	4.3	8	17	32	8
1/4"	5.4	13	29	33	9
5/16"	6	13	31	31	9
3/8"	6.5	18	28	36	11
7/16"	11.1	15	29	45	12
1/2"	13.7	20	33	47	16
5/8"	18.9	27	43	60	19
3/4"	19	31	61	71	22
7/8"	22.2	39	65	84	26
1"	26.4	49	85	95	28
1-1/8"	38.8	48	74	108	31
1-1/4"	31.8	61	82	118	38
1-3/8"	34.8	67	82	133	39
1-1/2"	38.1	60	85	140	41
1-3/4"	44.4	78	127	177	51
2"	50.8	82	146	186	57
2-1/2"	66.5	106	164	206	66



DR-Z0053
G2150 BOLE TYPE ANCHOR SHACKLES

Nominal Size (in.)	Working Load Limit (t)	Weight Each (LBS)	Dimensions (in.)								
			A	B	D	F	G	K	M	P	R
1/4	1/2	0.13	0.47	0.31	0.25	0.62	0.91	1.59	0.97	1.56	0.25
5/16	3/4	0.23	0.53	0.38	0.31	0.75	1.07	1.91	1.15	1.82	0.31
3/8	1	0.33	0.66	0.44	0.38	0.92	1.28	2.31	1.42	2.17	0.38
7/16	1-1/2	0.49	0.75	0.50	0.44	1.06	1.48	2.67	1.63	2.51	0.44
1/2	2	0.75	0.81	0.64	0.50	1.18	1.66	3.03	1.81	2.80	0.50
5/8	3-1/4	1.47	1.06	0.77	0.63	1.50	2.04	3.76	2.32	3.56	0.63
3/4	4-3/4	2.52	1.25	0.89	0.75	1.81	2.40	4.53	2.75	4.15	0.81
7/8	6-1/2	3.85	1.44	1.02	0.88	2.10	2.86	5.33	3.20	4.82	0.97
1	8-1/2	5.55	1.69	1.15	1.00	2.38	3.24	5.94	3.69	5.39	1.00
1-1/8	9-1/2	7.60	1.81	1.25	1.13	2.68	3.61	6.78	4.07	5.90	1.25
1-1/4	12	10.81	2.03	1.40	1.25	3.00	3.97	7.50	4.53	6.69	1.38
1-3/8	13-1/2	13.75	2.25	1.53	1.38	3.31	4.43	8.28	5.01	7.21	1.50
1-1/2	17	18.50	2.38	1.66	1.50	3.62	4.87	9.05	5.38	7.73	1.62
1-3/4	25	31.40	2.88	2.04	1.75	4.19	5.82	10.97	6.38	9.33	2.12
2	35	48.75	3.25	2.30	2.10	5.00	6.82	12.74	7.25	10.41	2.36
2-1/2	55	85.00	4.12	2.80	2.63	5.68	8.07	14.85	9.38	13.58	2.63
3	85	124.25	5.00	3.25	3.00	6.50	8.56	16.87	11.00	15.13	3.50



DR-Z0005
JIS TYPE DEE SHACKLE

SIZE	A	B	C	D	E
4	4	6	14	4	24
5	5	10	18	5	30
6	6	12	21	6	36
8	8	16	28	8	48
10	10	20	35	10	60
12	12	24	42	12	72
14	14	28	49	14	84
16	16	32	56	16	96
18	18	36	63	18	108
20	20	40	70	20	120
22	22	44	77	22	132
24	24	48	84	24	144
28	28	56	98	28	168



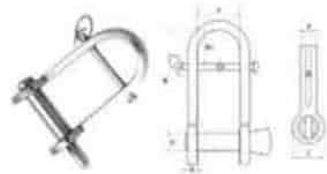
DR-Z0055
JIS TYPE BOW SHACKLE

SIZE	A	B	C	D	E	F
4	4	12	8	14	4	24
5	5	17	10	18	5	30
6	6	20	12	21	6	36
8	8	27	16	28	8	48
10	10	33	20	34	10	60
12	12	39	24	40	12	72
14	14	47	28	48	14	84
16	16	53	32	54	16	96
18	18	62	36	63	18	108
20	20	68	40	70	20	120
22	22	76	44	77	22	132
24	24	84	48	84	24	144
26	26	92	52	92	26	156



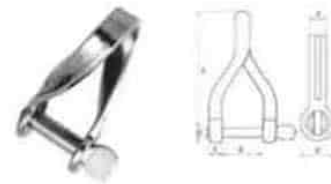
DR-Z0056
TWIST SHACKLE

SIZE	A	B	C	D
4	4	4	8	22
5	5	5	10	28
6	6	6	12	33
8	8	8	16	44
10	10	10	20	55
12	12	12	24	66



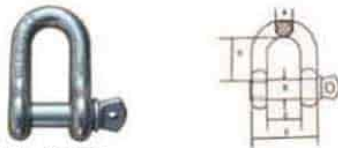
DR-Z0070
PLATE DEE SHACKLES WITH CORSS BAR

SIZE	D	A	B	B1	C	D1	E	F
M5	5	17	34	6	11	3	3	6.5
M8	8	17	41	10	16	3	3	7.5
M9	9	24	42	12	18.5	3	4	8



DR-Z0071
PLATE TWIST SHACKLES

SIZE	D	A	B	C	E	F	THICKNESS
M6	6	29	12.5	12	2	7	--
M8	8	38	16	14.6	3	7.5	3
M8	8	36	16	16.5	4	8	4



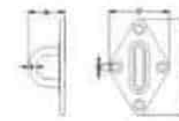
DR-Z0072
US TYPE DEE SHACKLES G210

SIZE	A	B	C	D	E
3/16	6	6	10	18	20
1/4	6	6	13	22	26
5/16	8	10	14	26	30
3/8	10	12	17	32	37
7/16	11	12	18	36	40
1/2	12	14	21	41	46
5/8	15	19	27	51	58
3/4	20	22	32	60	72
7/8	22	28	37	71	81
1	25	28	43	81	93
1-1/8	28	30	46	90	102
1-1/4	32	36	51	100	118



DR-Z0073
US TYPE BOW SHACKLES G209

SIZE	B	C	D	E	F	G	H	I	J
3/16	5	8	18	22	19	0.5	0	2	6
1/4	6	8	20	25	18.5	11.8	0	2.5	6
5/16	8	10	21	30	19	13.5	10	3	8
3/8	10	12	26	32	23	18	12	3.5	10
7/16	11	12	29	43	27	18.5	12	0.5	11
1/2	12	14	38	47	30	21.5	14	4.8	12
5/8	15	18	43	60	35	27	18	5.8	16
3/4	20	22	51	71	40	30	22	6	20
7/8	22	25	58	83	45	34	24	9	28
1	25	28	66	95	50	39	27	9.5	28
1-1/8	28	30	74	107	55	40	30	9.8	28
1-1/4	32	36	83	118	60	44	32	10	32



DR-Z0083

Φ mm	A mm	B mm	C mm	D mm	E mm	SWL kgs	BL kgs
5	22.5	4	38.5	5	68	175	700
6	28.5	4	39.5	8	84	250	1000
8	33	5	50	8	80	400	1600



DR-Z0084



DR-Z0085

Φ mm	A mm	B mm	C mm	D mm	E mm	SWL kgs	BL kgs
5	4.3	2.5	30	36	30	175	700
6	5.3	2.5	40	40	35	250	1000
8	6.3	3	60	50	40	400	1600



DR-Z0086



DR-Z0087

Φ mm	A mm	B mm	C mm	D mm	SWL kgs	BL kgs
5	5	18.5	38	54	175	700
6	5.5	19.5	45.5	65	250	1000
8	6.5	28	56.5	81	400	1600
9	6.5	38	73	103	425	1700



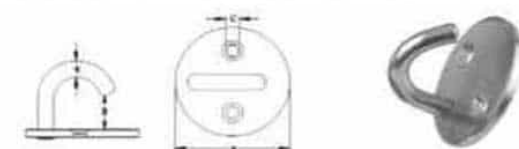
DR-Z0088

A mm	B mm	C mm	D mm	E mm	F mm
54	5	38	5	5	30
55	5.5	45	5	5	40
51	5.5	50	8	5	50



DR-Z0089

SIZE mm	A mm	B mm	C mm	D mm	SWL kgs	BL kgs
5	54	5	38	8	50	200
6	65	8	46	12	65	220
8	81	8	56	14	82	250
9	100	8	73	16	70	280



DR-Z0090

SIZE mm	Φ mm	A mm	B mm	C mm	SWL kgs	BL kgs
5	5	33	8.5	4.5	50	200
6	6	40	12.6	4.5	65	220
8	8	50	14.6	5.6	83	250



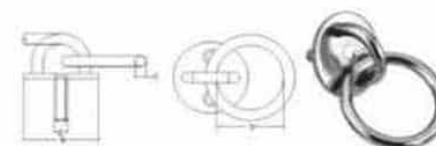
DR-Z0091

SIZE mm	A mm	B mm	C mm	D mm	E mm	F mm
5	5	20	38	4.6	5	30
6	6	26	40	4.6	6	40
8	8	31	50	5.5	8	50



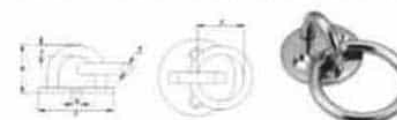
DR-Z0092

SIZE mm	Φ mm	A mm	B mm	C mm	SWL kgs	BL kgs
5	5	32	20	M6	10	400
6	6	40	22	M8	125	500
8	8	50	25	M10	250	1000



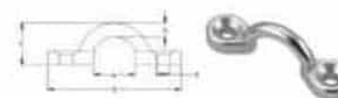
DR-Z0093

SIZE mm	A mm	B mm	C mm	D mm	E mm	SWL kgs	BL kgs
5	5	33	5	33	8	700	175
6	6	40	5	40	8	1000	250
8	8	50	8	50	10	1600	400



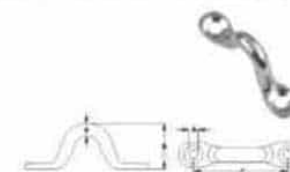
DR-Z0094

SIZE mm	Φ mm	A mm	B mm	C mm	SWL kgs	BL kgs
5	5	20.6	33	4.5	175	700
6	6	25.5	40	4.5	250	1000
8	8	31	50	5.5	400	1600



DR-Z0095

SIZE mm	A mm	B mm	C mm	D mm	E mm
10g	15	45	15	8	4.7



DR-Z0096

SIZE mm	Φ mm	A mm	B mm	C mm
4	4	3.2	16	32
5	5	4.2	17.5	40
6	6	5.2	22.5	45
8	8	6.2	28	50
10	10	8.2	28	62



DR-Z0097

Φ mm	A mm	B mm	C mm
4.2	43.5	11	11
4.2	48.5	14	11
4.2	48.5	17	11

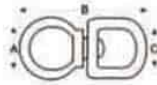


DR-Z0098

A mm	B mm	C mm	D mm	E mm	F mm	G mm
88	58	28	11	4.2	1.5	10
88	57.5	25.5	11	4.2	1.5	13
72	59.5	33.5	11	4.2	1.5	16



DR-180Z



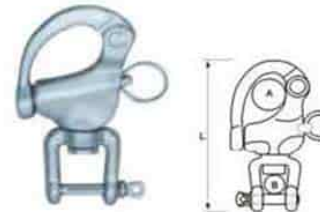
ART NO	A inch	B mm	C mm	NW g
180Z-6X9	6	25	8	3.5
180Z-10X10	10	35	10	10
180Z-10X12	10	40	12	11
180Z-9X13	9	47	13	21
180Z-9X16	9	49	16	23



DR-7913Z

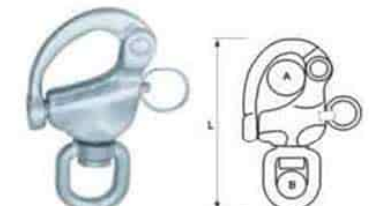


ART NO	A inch	B mm	C mm	NW g
7913Z-3/4" X 3/4"	3/4"	60	3/4"	36
7913Z-3/4" X 1"	3/4"	65	1"	39
7913Z-1" X 3/4"	1"	60	3/4"	37
7913Z-1" X 1"	1"	60	1"	40



DR-Z0035
SWIVEL SNAP SHACKLE ROUND HEAD

L mm	A mm	B mm
70	12	12
87	16	12
120	22	16



DR-Z0036
SWIVEL SNAP SHACKLE JAW HEAD

L mm	A mm	B mm
69	12	12
90	16	12
128	22	16



DR-178Z



ART NO	A inch	B mm	NW g
178Z-10	3/8"	38	12
178Z-12	1/2"	52	21
178Z-16	5/8"	62	33
178Z-19	3/4"	70	37
178Z-22	7/8"	72	42
178Z-25	1"	78	46
178Z-28	1 1/8"	80	50
178Z-32	1 1/4"	92	62



DR-179Z



ART NO	A inch	B mm	NW g
179Z-16	5/8"	50	31
179Z-19	3/4"	50	33
179Z-22	7/8"	60	35
179Z-25	1"	50	37



DR-Z0017
EUROPEAN SWIVEL EYE AND JAW

Size mm	D mm	d mm	L mm
5	5	5	59
6	6	6	65
8	8	8	94
10	10	10	116
13	13	13	152
16	16	16	166
19	19	19	229



DR-Z0018
EUROPEAN SWIVEL EYE AND JAW

Size mm	D mm	L mm
5	5	59
6	6	66
8	8	94
10	10	116
13	13	152
16	16	166
19	19	229



DR-Z216
EUROPEAN SWIVEL EYE AND EYE

Size mm	D mm	L mm
5	5	59
6	6	65
8	8	90
10	10	115
13	13	152
16	16	186
19	19	229



DR-0181Z



ART NO	A inch	B mm	C mm	NW g
0181Z-6X12	6	42	12	15
0181Z-10X17	10	60	17	30
0181Z-13X16	13	68	16	44
0181Z-11X25	11	67	25	96



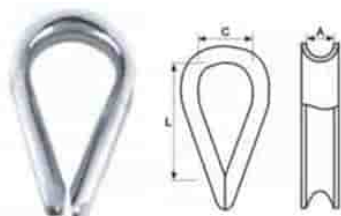
DR-Z0081
US TYPE SWIVELS

SIZE	A (in)	B (in)	C (in)	D (in)	E (in)	G (in)	J (in)	M (in)	H (in)	T (in)	U (in)	V (in)	WLL T
1/4	1.25	.69	.75	.62	1.12	.25	.69	.31	2.25	2.75	1.69	1.25	850
5/16	1.63	.81	1.00	.75	1.38	.31	.81	.38	2.72	3.34	2.06	1.47	1250
3/8	2.00	.94	1.25	1.00	1.75	.38	1.00	.50	3.44	4.19	2.50	1.88	2500
1/2	2.50	1.31	1.50	1.25	2.25	.50	1.31	.63	4.25	5.25	3.19	2.44	3600
5/8	3.00	1.56	1.75	1.50	2.75	.62	1.50	.75	5.13	6.31	3.88	2.94	5200
3/4	3.50	1.75	2.00	1.75	3.25	.75	1.88	.88	5.78	7.22	4.94	3.46	7200



DR-Z0082
EUROPEAN SWIVELS (EYE AND JAW)

SIZE	A (in)	B (in)	C (in)	J (in)	K (in)	L (in)	M (in)	N (in)	P (in)	R (in)	T (in)	U (in)	V (in)	WLL T
1/4	1.25	.69	.75	.69	.47	1.03	.31	.88	0.25	2.63	3.38	1.69	1.69	850
5/16	1.63	.81	1.00	.81	.50	1.13	.38	.88	.31	2.94	3.88	2.06	1.81	1250
3/8	2.00	.94	1.25	1.00	.63	1.41	.50	1.06	.38	3.63	4.75	2.50	2.25	2250
1/2	2.50	1.31	1.50	1.31	.75	1.75	.63	1.31	.50	4.50	6.06	3.19	2.88	3600
5/8	3.00	1.56	1.75	1.50	.91	2.06	.75	1.50	.63	5.31	7.31	3.88	3.44	5200
3/4	3.50	1.75	2.00	1.88	1.13	2.53	.88	1.75	.75	6.06	8.31	4.31	4.00	7200
1	4.50	2.31	2.50	2.38	1.75	3.72	1.13	2.81	1.13	8.56	11.69	5.75	5.94	12500
1 1/4	5.63	2.69	3.13	3.00	2.06	4.31	1.38	2.81	1.38	9.44	13.13	6.75	6.38	18000
1 1/2	7.00	4.19	4.00	4.00	2.88	6.00	2.25	4.44	2.25	14.74	20.84	10.00	10.84	45200



DR-Z0057

DIN6899 A TYPE THIMBLE

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

Size- mm	A mm	B mm	C mm
10.0	11.0	47.5	22
11.0	12.0	51.5	24
12.0	13.0	56.5	26
13.0	14.0	61.0	28
15.0	16.0	69.5	32
16.0	18.0	78.0	35
18.0	20.0	86.5	40
20.0	22.0	95.0	44
24/26	28.0	105.0	48



DR-Z0058
G-411 STANDARD WIRE ROPE THIMBLES

Size- mm	A mm	B mm	C mm
1/8"	17	33	1.2
3/16"	17.5	33	1.2
1/4"	18	33	1.2
5/16"	20.5	36	1.2
3/8"	24	42	1.5
1/2"	29	48	2
5/8"	35	57	3
3/4"	41	64	3.5
7/8"	48	89	4
1"	64	105	4
1 1/8-1 1/4"	70	115	5.5



DR-Z0059
G-414 STANDARD WIRE ROPE THIMBLES

Size- mm	A mm	B mm	C mm
1/4"	22	41	1.5
5/16"	27	48	2
3/8"	29	54	3
7/16"	32	61	3
1/2"	38	70	3.5
9/16"	38	72	3.5
5/8"	44	82	4
3/4"	51	95	5.5
7/8"	57	108	5.5
1"	64	114	6
1 1/8-1 1/4"	73	130	6



DR-Z0060
DIN6899 B TYPE THIMBLE

Size- mm	A mm	B mm	C mm
4	4	11	18
5	5	16	22
6	6	19	30
7	7	22	32
8	8	24	34
9	9	29	38
10	10	35	42
11	11	39	48

Size- mm	A mm	B mm	C mm
12	12	38	61
14	14	40	57
16	16	43	60
18	18	45	67
20	20	51	76
22	22	54	83
24	24	64	88
26	26	68	102
28	28	73	110



DR-Z0080
TVBE TYPE THIMBLES

SIZE	A	B	C	D
4MM	8.5	18.5	43.5	1.4
6MM	8.5	17.5	48.5	1.8
10MM	10.5	36.5	60.5	1.7
12MM	12.5	22.5	75.5	1.8
16MM	16.5	28.5	82.5	2.6



DR-Z0029
DIN 582 EYE NUT

D mm	A mm	B mm	C mm	E mm
6	20	36	36	8
8	20	36	36	8
10	25	45	45	10
12	30	54	53	12
14	30	54	53	12
16	35	63	62	14
18	35	63	62	14
20	40	72	71	16
24	50	90	90	20
30	60	108	109	24
36	70	126	128	18



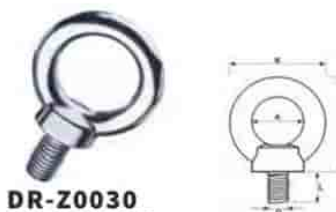
DR-Z0099
EYE NUTS JIS 1169

SIZE mm	A mm	B mm	C mm	D mm	E mm	L mm	WLL T
M6	26	6	5.1	11	14	11	0.05
M8	32.6	8	6.3	13.2	15	12	0.08
M10	41	10	8	17.5	20	15	0.15
M12	50	12	10	21	24	19	0.22
M14	56	14	11.5	23	26.5	21	0.3
M16	60	16	12.5	25.5	28	23	0.45
M18	67	18	14.5	27.2	31	25	0.5
M20	72	20	16	29	33	28	0.63
M22	81	22	18	31	35	33	0.8
M24	90	24	20	33.4	38	38	0.95



DR-Z0101

SIZE mm	A mm	B mm	C mm	D mm	E mm
M8	13	9.5	50	24	M8
M10	19.5	12	62	30	M10
M12	22.8	14	72	35	M12
M16	28	16	88.5	40	M16
M20	35.5	20	108	50	M20
M22	40	22	119.5	55	M22



DR-Z0030
DIN 580 EYE BOLT

D mm	A mm	B mm	C mm	E mm
6	20	36	36	13
8	20	36	36	13
10	25	45	45	17
12	30	54	53	20
14	30	54	53	20
16	35	63	62	27
18	35	63	62	27
20	40	72	71	30
24	50	90	90	36
30	60	108	109	45
36	70	126	128	54



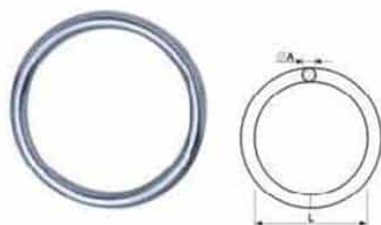
DR-Z0100
EYE BOLTSS LENGTH SCREW

SIZE mm	A mm	B mm	C mm	SWL kg	BL kg
M6x50	16	50	M6	275	1100
M8x50	20	50	M8	450	1800
M10x50	25	50	M10	650	2600
M12x50	30	50	M12	850	3400
M16x50	35	50	M16	2000	8000



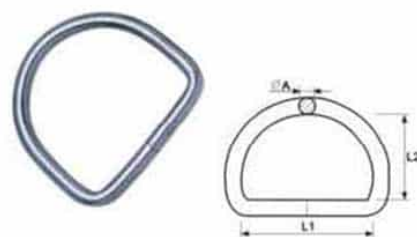
DR-Z0102
EYE BOLTSS JIS 1168

SIZE mm	A mm	B mm	C mm	D mm	E mm	L mm	WLL T
M6	26	14	5.1	6	27.2	13	0.05
M8	32.6	15	6.3	8	33.3	15	0.08
M10	41	20	8	10	41.5	18	0.15
M12	50	24	10	12	51	22	0.22
M14	56	26.5	11.5	14	56	25	0.3
M16	60	29	12.5	16	60	27	0.45
M18	67	31	14.5	18	66	28	0.5
M20	72	33	16	20	71	30	0.63
M22	81	35	18	22	80.5	35	0.8
M24	90	38	20	24	90	38	0.95
M36	126	67	28	36	122	55	2.3
M42	151	80	35.5	42	150.5	65	3.4
M48	170	90	40	48	170	70	4.5
M64	210	110	50	64	210	90	9
M80	266	130	63	80	263	105	15
M90	302	150	71	90	301	120	18
M100	340	170	80	100	335	130	20



DR-Z0037

SIZE mm	A mm	L mm	SIZE mm	A mm	L mm
3x25	3	25	6x40	6	40
4x25	4	25	8x50	8	50
4x30	4	30	6x60	6	60
4x40	4	40	7x35	7	35
5x30	5	30	8x40	8	40
5x40	5	40	8x50	8	50
5x50	5	50	10x50	10	50
6x30	6	30	10x70	10	70



DR-Z0038

A mm	L1 mm	L2 mm	A mm	L1 mm	L2 mm
3	25	22	6	40	37
4	25	22	6	50	47
4	30	27	6	40	37
5	30	27	6	50	47
5	40	37	10	50	47



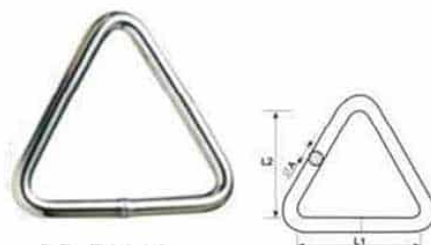
DR-Z0160

SIZE mm	Φ mm	A mm	B mm	C mm
3x25	3	25	3.5	3.5
4x25	4	25	5	5.5
6x45	6	45	6	7
6x55	6	55	7	8
7x55	7	55	8	10
8x75	8	75	8.5	11.5
8x90	8	90	11	12
10x100	10	100	13	12.5



DR-Z0161

SIZE mm	Φ mm	A mm	B mm	C mm	D mm
6x52	5	52	11	8.5	2
6x55	6	54.5	10	10.5	5
6x75	6	75	16	17	5
8x85	8	85	18	18	8.5
10x95	10	95	20	20.5	8.5



DR-Z0039

A mm	L1 mm	L2 mm
5	30	30
6	50	50
8	50	50



DR-Z0040

Flat type
Round type
Knurling type



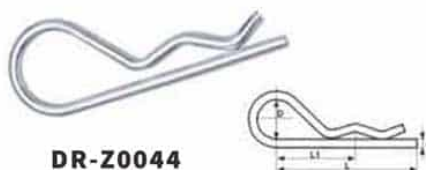
DR-Z0162

SIZE mm	Φ mm	A mm	B mm	C mm
6x75	6	75	15	15.5



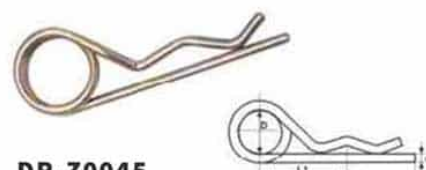
DR-Z0163

SIZE mm	Φ mm	A mm	B mm	C mm	D mm
6x52	5	52	8	8.5	2
6x55	6	54.5	10	10.5	5
6x75	6	75	16	17	5
8x85	8	85	18	18	8.5
10x95	10	95	20	20.5	8.5



DR-Z0044
HAIR PIN

d mm	L mm	L1 mm	D mm
2	50	25	10
3	60	28	18
4	60	30	20
5	85	40	24
6	105	50	30
7	105	50	30
8	110	55	28



DR-Z0045
HAIR PIN WITH EYELET

d mm	L mm	L1 mm	D mm
2	50	25	10
3	62	32	16
4	78	44	23
5	92	50	26
6	120	70	30
7	130	72	30
8	130	76	30



DR-Z0148



DR-Z0342



DR-Z0113



DR-Z0075

DR-Z0293



DR-Z0294



DR-Z0295



DR-Z0280



DR-Z0281



DR-Z0282



DR-Z0296



DR-Z0297



DR-Z0299



DR-Z0283



DR-Z0285



DR-Z0286



DR-Z0300



DR-Z0303



DR-Z0304



DR-Z0287



DR-Z0288



DR-Z0289



DR-Z0290



DR-Z0291



DR-Z0292





DR-Z0107

DIN3017 GERMAN TYPE HOSE CLAMP

STEEL GALVANIZED
AIS1304
AIS1316

Bandwidth	Size	Pcs/bag	Pcs/ctn
9mm/12mm	8-12	50	1000
9mm/12mm	10-16	50	1000
9mm/12mm	12-20	50	1000
9mm/12mm	16-26	50	1000
9mm/12mm	20-32	50	500
9mm/12mm	26-40	50	500
9mm/12mm	32-60	50	500
9mm/12mm	40-60	20	500
9mm/12mm	44-64	20	500
9mm/12mm	50-70	20	500
9mm/12mm	60-80	20	500
9mm/12mm	70-90	20	500
9mm/12mm	70-100	20	500
9mm/12mm	80-110	20	500
9mm/12mm	100-120	20	250
9mm/12mm	110-130	20	250
9mm/12mm	120-140	20	250
9mm/12mm	140-160	20	250
9mm/12mm	150-170	10	250
9mm/12mm	160-180	10	250



DR-Z0108

US TYPE HOSE CLAMP

STEEL GALVANIZED
AIS1304
AIS1316

Bandwidth	Size	Pcs/bag	Pcs/ctn
12.7mm	1"	50	1000
12.7mm	1-1/16"	50	1000
12.7mm	1-1/4"	50	1000
12.7mm	1-1/2"	20	1000
12.7mm	1-3/4"	20	1000
12.7mm	2"	20	1000
12.7mm	2-1/4"	20	500
12.7mm	2-1/2"	20	500
12.7mm	2-3/4"	20	500
12.7mm	3"	20	500
12.7mm	3-1/4"	20	500
12.7mm	3-1/2"	20	250
12.7mm	3-3/4"	20	250
12.7mm	4"	20	250
12.7mm	4-1/2"	20	250
12.7mm	6"	10	250
12.7mm	6-1/2"	10	250
12.7mm	8"	10	200
12.7mm	8-1/2"	10	100
12.7mm	7"	10	100



DR-Z0109

ROBUST CLAMP WITH DOUBLE BOLTS

Diameter range	Bolt	Thickness width	Diameter range	Bolt	Thickness width
30-40	M8*50	1.0*20	60-70	M8*60	1.0*24
35-45	M8*50	1.0*20	65-75	M8*60	1.0*24
40-50	M8*50	1.0*20	70-80	M8*60	1.0*24
45-55	M8*50	1.0*20	75-85	M8*60	1.0*24
50-60	M8*50	1.0*20	85-95	M8*60	1.0*24
55-65	M8*50	1.0*20	90-100	M8*60	1.0*24
60-70	M8*50	1.0*20	95-105	M8*60	1.0*24
65-75	M8*50	1.0*20	100-110	M8*60	1.0*24
70-80	M8*50	1.0*20	105-115	M8*60	1.0*24
75-85	M8*50	1.0*20	110-120	M8*60	1.0*24
85-95	M8*50	1.0*20	115-125	M8*60	1.0*24
90-100	M8*50	1.0*20	120-130	M8*60	1.0*24
95-105	M8*50	1.0*20	125-135	M8*60	1.0*24
100-110	M8*50	1.0*20	130-140	M8*60	1.0*24
105-115	M8*50	1.0*20	140-150	M8*60	1.0*24
110-120	M8*50	1.0*20	150-160	M8*60	1.0*24
115-125	M8*50	1.0*20	160-170	M8*60	1.0*24
120-130	M8*50	1.0*20	170-180	M8*60	1.0*24



DR-Z0110

DOUBLE WIRE HOSE CLAMP

Diameter	Size	Screw	Pcs/ctn
1.5mm	11-14	M5*30	2000
1.5mm	13-16	M5*30	2000
1.5mm	15-18	M5*30	2000
1.8mm	17-20	M5*30	2000
1.8mm	19-22	M5*30	1000
1.8mm	20-24	M5*30	1000
1.8mm	22-26	M5*30	1000
1.8mm	24-28	M5*30	1000
2.2mm	26-30	M6*40	500
2.2mm	28-32	M6*40	500
2.2mm	31-35	M6*40	500
2.2mm	33-36	M6*40	500
2.2mm	34-38	M6*40	500
2.2mm	35-40	M6*40	500
2.2mm	37-42	M6*40	500
2.2mm	40-45	M6*40	500
2.2mm	42-48	M6*40	500
2.2mm	43-48	M6*50	500
2.2mm	45-50	M6*50	500
2.2mm	47-52	M6*50	500



DR-Z0492

European type hose clamps

8-18
10-16
12-20
16-25
18-27
19-29
20-32
26-40
32-50
40-60
50-70
60-80
70-90
80-100
90-110
100-120
110-130
120-140
130-150
140-160



DR-Z0119

U.S. type hose clamps

14-27
18-32
21-38
21-44
27-51
33-57
40-63
46-70
52-78
59-82
65-89
72-98
78-101
84-108
91-114
105-127
118-140
130-152
141-165
155-178



DR-Z0075

US type hose clamps with handle



DR-Z0076

European Type hose clamps with handle



DR-Z0319



DR-Z0115



DR-Z0150



DR-Z0353



DR-Z0341



DR-Z0123



DR-Z0046



DR-Z0077



DR-Z0078



DR-Z0153



DR-Z0154



DR-Z0156



DR-Z0157





DR-0173Z

SIZE	D	DIAROPESIZE	L	L1	W	W1	E	GM/PC
1/2"	1/2"	5/32"	1 1/4"	11/32"	5/16"	9/32"	7/16"	19
3/4"	3/4"	3/16"	1 1/2"	1 1/4"	5/16"	9/32"	7/16"	27
1"	1"	1/4"	2"	3/8"	13/32"	3/8"	7/16"	47
1 1/4"	1 1/4"	5/16"	3 1/2"	1/2"	17/32"	1/2"	13/16"	80
1 1/2"	1 1/2"	3/8"	3 3/4"	13/32"	17/32"	1/2"	13/16"	95
2"	2"	7/16"	4 1/4"	9/16"	9/16"	1/2"	13/16"	168



DR-0178Z

SIZE	D	DIAROPESIZE	L	L1	W	W1	E	GM/PC
1/2"	1/2"	5/32"	1 1/4"	11/32"	5/16"	9/32"	7/16"	28
3/4"	3/4"	3/16"	1 1/2"	1 1/4"	5/16"	9/32"	7/16"	40
1"	1"	1/4"	2"	3/8"	13/32"	3/8"	7/16"	73
1 1/4"	1 1/4"	5/16"	3 1/2"	1/2"	17/32"	1/2"	13/16"	126
1 1/2"	1 1/2"	3/8"	3 3/4"	13/32"	17/32"	1/2"	13/16"	142
2"	2"	7/16"	4 1/4"	9/16"	9/16"	1/2"	13/16"	283



DR-502Z

ART NO	D	L	E	NW
502Z-15	15	49	10	21
502Z-20	20	59	11	36
502Z-25	25	70	12	52
502Z-30	30	76	13	77
502Z-40	40	90	16	110
502Z-50	50	110	17	175
502Z-65	65	133	18	360



DR-504Z

ART NO	D	L	E	NW
504Z-15	15	49	10	34
504Z-20	20	58	11	55
504Z-25	25	70	12	72
504Z-30	30	80	13	115
504Z-40	40	90	16	190
504Z-50	50	100	17	293



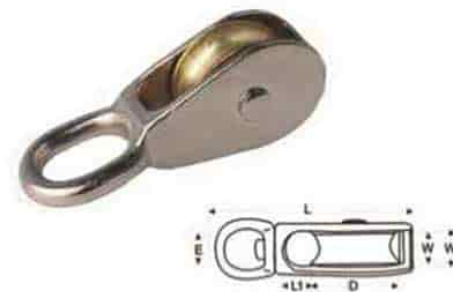
DR-0174Z

SIZE	D	DIAROPESIZE	L	L1	W	W1	E	GM/PC
1/2"	1/2"	5/32"	1 1/4"	11/32"	5/16"	9/32"	3/16"	15
3/4"	3/4"	3/16"	1 1/2"	1 1/4"	5/16"	9/32"	3/16"	24
1"	1"	1/4"	2"	3/8"	13/32"	3/8"	1/4"	43
1 1/4"	1 1/4"	5/16"	3"	1/2"	17/32"	1/2"	3/8"	70
1 1/2"	1 1/2"	3/8"	3 1/4"	13/32"	17/32"	1/2"	3/8"	85
2"	2"	7/16"	4 1/4"	9/16"	9/16"	1/2"	1/2"	170



DR-0176Z

SIZE	D	DIAROPESIZE	L	L1	W	W1	E	GM/PC
1/2"	1/2"	5/32"	1 1/4"	11/32"	5/16"	9/32"	3/16"	24
3/4"	3/4"	3/16"	1 1/2"	1 1/4"	5/16"	9/32"	3/16"	36
1"	1"	1/4"	2"	3/8"	13/32"	3/8"	1/4"	69
1 1/4"	1 1/4"	5/16"	3"	1/2"	17/32"	1/2"	3/8"	115
1 1/2"	1 1/2"	3/8"	3 1/4"	13/32"	17/32"	1/2"	3/8"	140
2"	2"	7/16"	4 1/4"	9/16"	9/16"	1/2"	1/2"	282



DR-0172Z

SIZE	D	DIAROPESIZE	L	L1	W	W1	E	GM/PC
0172Z-25	25	7	64	8.5	10	15	12	47



DR-503Z

ART NO	D	L	E	NW
503Z-30	30	100	13	103



DR-7310B

ART NO	A	B	NW
7310B-25	1"	52	54
7310B-38	1 1/2"	61	126



DR-7320B

ART NO	A	B	NW
7320B-25	1"	52	77
7320B-38	1 1/2"	61	217



DR-505Z

ART NO	D	L	E	NW
505Z-15	15	50	10	20
505Z-20	20	55	11	36.5
505Z-25	25	75	12	64.5
505Z-30	30	85	13	94.5
505Z-40	40	90	16	130
505Z-50	50	105	17	225



DR-0270Z

ART NO	A	NW
0270Z-30	30	45
0270Z-50	50	58



DR-0282Z

ART NO	A inch	B mm	NW g
0282-30	1-1/4	85	70
0283-30NL	1-1/4	85	36



DR-0293Z

ART NO	A inch	B mm	NW g
0293-25	1	70	27
0293-40	1-1/2	95	74
0293-50	2	100	104



DR-0297Z

ART NO	A inch	B mm	NW g
0297-12	1/2	35	9.5



DR-0298Z

ART NO	A inch	B mm	NW g
0298-20	3/4	110	33
0298-30	1-1/4	135	50



DR-0301Z

ART NO	A inch	B mm	NW g
0301-40	1-1/2	108	73



DR-0302Z

ART NO	A inch	B mm	NW g
0302-40	1-1/2	108	113



DR-0304Z

ART NO	A inch	B mm	NW g
0304-35	1-3/8	78	19.5



DR-0295Z

ART NO	A inch	B mm	NW g
0295-20	3/4	40	28
0295-25	1	40	30
0295-30	1-1/4	56	33
0295-40	1-1/2	56	51
0295-50	2	76	58
0295-60	2-1/2	76	80



DR-0284Z

ART NO	A inch	B mm	NW g
0284-35	1-3/8	100	92
0284-40	1-1/2	102	95



DR-0299Z

ART NO	A inch	B mm	NW g
0299-40	1-1/2	100	74
0299-50	2	105	104



DR-0286Z

ART NO	A inch	B mm	NW g
0286-60	2-1/2	130	195
0287-60	3-1/8	160	270



DR-0280Z

ART NO	A inch	B mm	NW g
0280-25	1	45	15



DR-Z0049

Name	Size (Inch)	Material	Specifications
cast iron with double wheel pulley	3/4"	Steel	Plastic - coated/Galvanized
	1"		
	1 - 1/4"		
	1 - 1/2"		
	2"		
	2 - 1/2"		
	3"		



DR-Z0050

Name	Size (Inch)	Material	Specifications
cast iron with single wheel pulley	3/4"	Steel	Plastic - coated/Galvanized
	1"		
	1 - 1/4"		
	1 - 1/2"		
	2"		
	2 - 1/2"		
	3"		



DR-Z0048

Name	Size (mm)	Material	Specifications
cast iron Swivel Tackle	75*20	Steel	Plastic - coated
	100*20		
	120*20		
	145*20		
	165*22		
	180*22		
	195*24		
	200*24		
	220*24		
	250*26		
	300*32		



DR-Z0573

GREAT PULLEY			
SIZE	W.L.L	DIAM OF ROPE	NET WEIGHT
IN	TON	MM	KG
80	8	48	3.8



DR-Z0274

Name	Size (mm)	Material
Nylon pulley	Length: 60mm	Iron&nylon
	Wheel diameter: 25mm	



DR-Z0273

Name	Size (mm)	Material
Nylon pulley	Length: 92mm	Nylon
	Wheel diameter: 60mm	



DR-Z0276

Name	Size mm	Material	Specifications
Nylon pulley wheel	outer diameter*inside diameter*slot width	Nylon	Galvanized
	25*5*7		
	28*4*6		
	30*6*8		
	40*7*9		
	40*5*8		
	50*7*12		
	60*6*8		
	65*9*15		



DR-Z0277

Name	Size mm	Material	Specifications
Zinc alloy pulley wheel	outer diameter*inside diameter*slot width	Zinc Alloy	galvanize
	25*4*6		
	30*5*8		
	35*5*9		
	50*7*10		
	60*9*12		



DR-Z0278

Name	Size (mm)	Material	Specifications
Nylon pulley	Length: 80mm	Nylon & Steel	galvanize



DR-Z0279

Name	Size (mm)	Material	Specifications
Swing Nylon Pulley	Length: 70mm	Nylon & Steel	galvanize



DR-Z0617



DR-Z0618



DR-Z0256



DR-0175Z

ART NO	A inch	B mm	C mm	NW g
0175Z-30	1-1/4	66	7	80
0175Z-50	2	98	11	190



DR-0281Z

ART NO	A inch	B mm	NW g
0281-25	1	58	18.5



DR-0271Z

ART NO	A mm	NW g
0271Z-30	30	40
0271Z-50	50	80



DR-0272Z

ART NO	A mm	NW g
0272Z-25	25	49
0272Z-30	30	48
0272Z-35	35	56
0272Z-40	40	72
0272Z-50	50	83
0272Z-60	60	118



DR-0462Z

ART NO	A inch	B mm	C mm	NW g
0462-38	1-1/2	90	9	131
0462-50	2	100	9	194
0462-60	2-1/2	120	9	258



DR-0467Z

ART NO	A inch	B mm	C mm	NW g
0467-75	3	125	17	440



DR-Z0173 AISI 304/316

SIZE	A	B	C	D	E
16MM	11.0	18.0	57.5	16.0	11.5
20MM	13.0	18.0	67.5	20.0	11.5
25MM	14.0	17.0	79.5	25.0	18.0
32MM	16.0	18.0	89.0	32.0	18.0
50MM	20.0	25.0	120.5	50.0	20.0



DR-Z0178 AISI 304/316

SIZE	A	B	C	D	E
16MM	11.0	18.0	57.5	16.0	11.5
20MM	13.0	18.0	67.5	20.0	11.5
25MM	14.0	17.0	79.5	25.0	18.0
32MM	16.0	18.0	89.0	32.0	18.0
50MM	20.0	25.0	117.0	50.0	20.0



DR-0463Z

ART NO	A inch	B mm	C mm	NW g
0463-38	1-1/2	86	13	260



DR-0478Z

ART NO	A inch	B mm	NW g
0478-38	1-1/2	72	138
0478-50	2	85	197



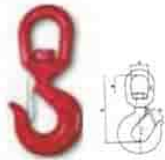
DR-Z0571

88 SWIVEL BLOCK WITH SINGLE WHEEL			
SIZE	LENGTH	DIAM OF ROPE	NET WEIGHT
MM	MM	MM	KG/100PCS
4	128	13.5	35.5
5	158	15	63.2
500	205	16.5	147



DR-Z0275

Size (mm)	Material	Specifications
Length: 120mm Wheel diameter: 50mm	Iron	Galvanized



DR-Z0133

SIZE	H-330	A-330	B	E	P	R	Weight (lbs)
1/4"	1950	2750	0.44	0.94	0.38	2.56	0.50
5/16"	2575	4300	0.50	1.06	0.44	2.87	0.75
3/8"	4000	5250	0.59	1.31	0.47	3.25	1.20
7/16"	5000	7000	0.66	1.56	0.56	3.70	2.06
1/2"	6500	9000	0.75	1.69	0.63	4.00	2.80
5/8"	9250	13500	0.91	2.00	0.75	4.94	4.75
3/4"	12500	19250	1.31	2.50	1.00	6.09	10.30

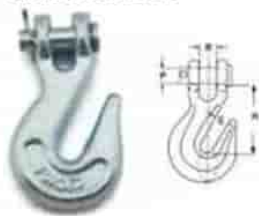
SIZE	H-330	A-330	B	E	P	R	Weight (lbs)
1/4"	1950	2750	0.44	0.94	0.38	2.56	0.50
5/16"	2575	4300	0.50	1.06	0.44	2.87	0.75
3/8"	4000	5250	0.59	1.31	0.47	3.25	1.20
7/16"	5000	7000	0.66	1.56	0.56	3.70	2.06
1/2"	6500	9000	0.75	1.69	0.63	4.00	2.80
5/8"	9250	13500	0.91	2.00	0.75	4.94	4.75
3/4"	12500	19250	1.31	2.50	1.00	6.09	10.30



DR-Z0015

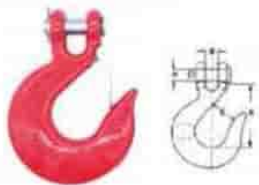
SIZE	H-330	A-330	B	E	P	R	Weight (lbs)
1/4"	1950	2750	0.44	0.94	0.38	2.56	0.50
5/16"	2575	4300	0.50	1.06	0.44	2.87	0.75
3/8"	4000	5250	0.59	1.31	0.47	3.25	1.20
7/16"	5000	7000	0.66	1.56	0.56	3.70	2.06
1/2"	6500	9000	0.75	1.69	0.63	4.00	2.80
5/8"	9250	13500	0.91	2.00	0.75	4.94	4.75
3/4"	12500	19250	1.31	2.50	1.00	6.09	10.30

DR-Z0014
CLEVIS GRAB HOOKS



SIZE	H-330	A-330	B	E	P	R	Weight (lbs)
1/4"	2800	3800	0.38	0.40	0.38	1.97	0.40
5/16"	3900	5400	0.40	0.44	0.44	2.28	0.76
3/8"	5400	7500	0.48	0.60	0.47	2.63	1.00
7/16"	7200	10000	0.68	0.66	0.68	2.76	1.50
1/2"	9200	12750	0.75	0.66	0.63	3.18	2.10
5/8"	12750	19000	0.81	0.78	0.75	4.09	4.20
3/4"	18600	27000	0.84	0.94	0.88	4.63	6.60

DR-Z0137
CLEVIS SLIP HOOKS



SIZE	H-330	A-330	B	E	P	R	Weight (lbs)
1/4"	1950	2750	0.44	0.94	0.38	2.56	0.60
5/16"	2575	4300	0.50	1.06	0.44	2.87	0.75
3/8"	4000	5250	0.59	1.31	0.47	3.25	1.20
7/16"	5000	7000	0.66	1.56	0.56	3.70	2.06
1/2"	6500	9000	0.75	1.69	0.63	4.00	2.80
5/8"	9250	13500	0.91	2.00	0.75	4.94	4.75
3/4"	12500	19250	1.31	2.50	1.00	6.09	10.3

DR-Z0138
EYE GRAB HOOKS



SIZE	H-330	A-330	B	E	P	R	Weight (lbs)
1/4"	2800	3800	0.50	0.34	1.97	0.28	
5/16"	3900	5400	0.58	0.44	2.28	0.45	
3/8"	5400	7500	0.66	0.50	2.66	0.79	
7/16"	7200	10000	0.75	0.68	2.94	1.19	
1/2"	9200	12750	0.88	0.68	3.38	2.80	
5/8"	12750	19000	1.06	0.78	4.11	3.30	
3/4"	18600	27000	1.38	0.94	5.18	6.00	



DR-Z0135

CLEVIS GRAB HOOKS (WITH/WITHOUT LATCHES)

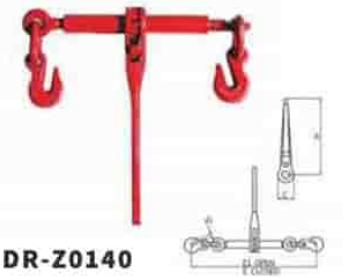
SIZE	H-330	A-330	B	E	P	R	Weight (lbs)
1/4"	1950	2750	0.44	0.94	0.38	2.56	0.50
5/16"	2575	4300	0.50	1.06	0.44	2.87	0.75
3/8"	4000	5250	0.59	1.31	0.47	3.25	1.20
7/16"	5000	7000	0.66	1.56	0.56	3.70	2.06
1/2"	6500	9000	0.75	1.69	0.63	4.00	2.80
5/8"	9250	13500	0.91	2.00	0.75	4.94	4.75
3/4"	12500	19250	1.31	2.50	1.00	6.09	10.30



DR-Z0139

EYE SLIP HOOKS (WITH/WITHOUT LATCHES)

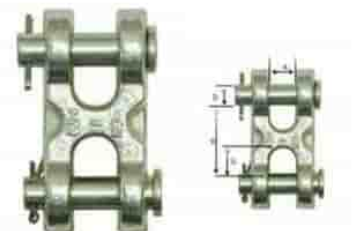
SIZE	H-324	A-324	B	E	P	R	Weight (lbs)
1/4"	1950	2750	0.50	0.94	2.56	0.40	
5/16"	2875	4300	0.63	1.06	2.95	0.70	
3/8"	4000	5250	0.72	1.31	3.36	1.00	
7/16"	5000	7000	0.81	1.56	3.68	1.60	
1/2"	6500	9000	0.94	1.69	4.28	2.40	
5/8"	9250	13500	1.13	5.00	5.22	4.00	
3/4"	12500	19250	1.38	2.13	5.80	6.50	



DR-Z0140

LOAD BINDER RABBIT

TON	Chain size	mm	A	C	E	F	G	Weight (kg)
1.17T	1/4-5/16	6-8	2100	420	445.0	575.0	9.9	1.84
2.97T	5/16-3/8	8-10	3550	650	588.0	750.0	12.7	4.95
4.14T	3/8-1/2	10-13	3850	650	603.0	768.0	16.5	5.30
6.05T	1/2-5/8	18-16	8650	650	690.0	860.0	18.0	6.84



DR-Z0141

H TYPE RECEIVER LINKS

SIZE	WLL (lbs)	A	B	C	D	E	Weight (lbs)
1/4" - 5/16"	4700	0.47	1.18	0.38	0.43	0.32	
3/8"	6600	0.53	1.34	0.47	0.48	0.44	
7/16"-1/2"	11250	0.65	1.75	0.56	0.63	1.00	
5/8"	16500	0.78	2.12	0.69	0.75	1.32	



DR-Z0578

GREEN TACKLE			
SIZE	W.L.L	DIAM OF ROPE	NET WEIGHT
IN	LB9	MM	KG
8	1000	7/8	4.2
10	1000	1	4.5
12	1000	1	5.9
14	1000	1	7.3



DR-Z0577

SUPER CHAMPION SNATCH BLOCK WITH HOOK			
SIZE	W.L.L	DIAM OF ROPE	NET WEIGHT
IN	TON	IN	KG
6	20	1 1/8	46
10	20	1 1/8	62
12	20	1 1/8	80
14	20	1 1/8	94
16	20	1 1/8	102
18	26	1 1/8	131
20	30	1 1/8	167
24	40	1 1/8	286



DR-Z0576

ALLOY TYPE CHAMPION SNATCH BLOCK WITH SHACKLE			
SIZE	W.L.L	DIAM OF ROPE	NET WEIGHT
IN	TON	IN	KG
8	12	3/4	16.5
8	12	3/4 7/8	28
10	12	3/4 7/8	36



DR-Z0575

CRANE PULLEY BLOCK SINGLE BREEZE WITH HOOK			
SIZE	W.L.L	DIAM OF ROPE	NET WEIGHT
KGS	TON	MM	KG
300	0.3	12	0.3
400	0.4	14	0.37
500	0.5	16	1.18
1000	1	20	1.84
2000	2	23	3.8



DR-Z0574

SWITCH STEEL PULLEY			
SIZE	W.L.L	DIAM OF ROPE	NET WEIGHT
IN	TON	MM	KG
4	1.5	10	2.5
6	2.5	12	3.8



DR-Z0572

STEEL PULLEY			
SIZE	W.L.L	DIAM OF ROPE	NET WEIGHT
IN	TON	MM	KG
4	1.5	10	2.2
5	2.5	12	3.8



DR-Z0581



DR-Z0582



DR-Z0583



DR-Z0584



DR-Z0585



DR-Z0586



DR-Z0587



DR-Z0588



DR-Z0589



DR-Z0590



DR-Z0591



DR-Z0592



DR-Z0593



DR-Z0594



DR-Z0595

DIN 5685A/C SHORT/LONG LINK CHAIN



SIZE MM	INSIDE LENGTH MM	OUTSIDE WIDTH MM	WEIGHT PER 100M KG	WORKING LOAD N	BREAKING LOAD N	GRADE
6	24	24	73	4500	11500	A
6.5	26	26	85	5400	13500	A
7	28	28	100	6000	15000	A
8	32	32	130	8000	20000	A
8.5	34	34	150	9000	22500	A
9	36	36	165	10000	25000	A
10	40	40	200	12500	31000	A
11	44	44	250	15000	38000	A
12	48	48	290	18000	45000	A
13	52	52	345	21200	53000	A

DIN764 LINK CHAIN



SIZE MM	INSIDE LENGTH MM	INSIDE WIDTH MM	OUTSIDE WIDTH MM	LENGTH PER 11 LINKS MM	WEIGHT PER 100M KG	WORKING LOAD N	BREAKING LOAD N	TEST LOAD N
6	21	3.25	21.5	231	2.00	74	14.5	950
8	26	3.25	26	288	2.20	121.5	32	1880
10	30	3.25	30	345	2.35	200	50	2630
12	36	3.25	36	412	2.50	296	70	3600
13	40	3.25	40	465	2.60	320	80	4200
14	43	3.25	43	508	2.80	406	92	4830
16	48	3.25	48	565	3.00	520	125	6700
18	54	3.25	54	630	3.30	660	160	8400
20	60	3.25	60	690	3.60	800	200	10000
23	68	3.25	68	780	4.00	1000	250	13000
26	76	3.25	76	870	4.50	1200	320	16000

DIN763 LINK CHAIN



SIZE MM	INSIDE LENGTH MM	INSIDE WIDTH MM	OUTSIDE WIDTH MM	LENGTH PER 11 LINKS MM	WEIGHT PER 100M KG	WORKING LOAD N	BREAKING LOAD N	TEST LOAD N
6	21	3.25	21.5	231	2.00	74	14.5	950
7	24	3.25	24	264	2.20	100	18.0	1100
8	26	3.25	26	288	2.35	121.5	22.0	1300
8.5	28	3.25	28	312	2.50	143	25.0	1400
9	30	3.25	30	336	2.60	165	28.0	1500
10	32	3.25	32	360	2.80	190	32.0	1600
11	34	3.25	34	384	3.00	215	36.0	1700
12	36	3.25	36	408	3.20	240	40.0	1800
13	38	3.25	38	432	3.40	265	44.0	1900
14	40	3.25	40	456	3.60	290	48.0	2000
16	44	3.25	44	504	4.00	340	56.0	2200
18	48	3.25	48	552	4.50	400	66.0	2400
20	52	3.25	52	600	5.00	470	77.0	2600
22	56	3.25	56	648	5.50	540	88.0	2800
24	60	3.25	60	696	6.00	620	100.0	3000
26	64	3.25	64	744	6.50	700	112.0	3200
28	68	3.25	68	792	7.00	790	125.0	3400
30	72	3.25	72	840	7.50	880	138.0	3600

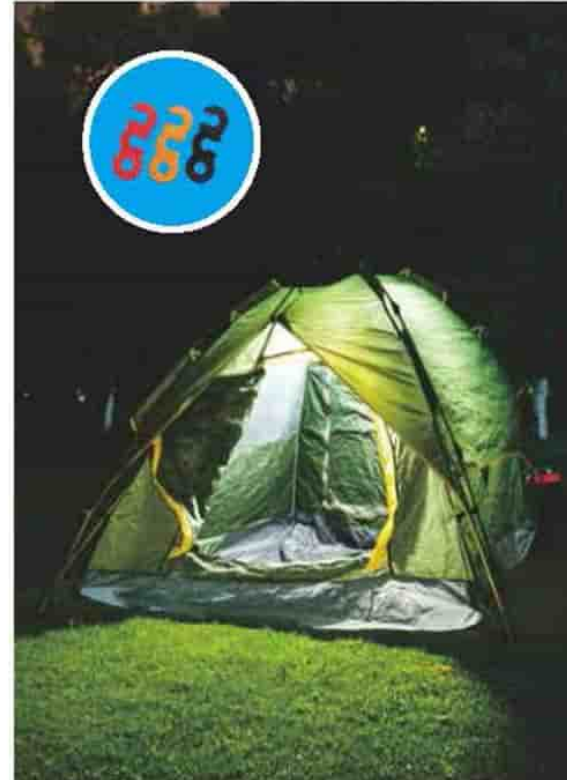
DIN766 LINK CHAIN



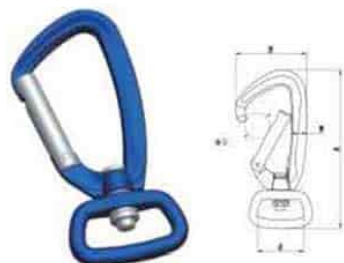
SIZE MM	INSIDE LENGTH MM	INSIDE WIDTH MM	OUTSIDE WIDTH MM	LENGTH PER 11 LINKS MM	WEIGHT PER 100M KG	WORKING LOAD N	BREAKING LOAD N	TEST LOAD N
6	21	3.25	21.5	231	2.00	74	14.5	950
7	24	3.25	24	264	2.20	100	18.0	1100
8	26	3.25	26	288	2.35	121.5	22.0	1300
8.5	28	3.25	28	312	2.50	143	25.0	1400
9	30	3.25	30	336	2.60	165	28.0	1500
10	32	3.25	32	360	2.80	190	32.0	1600
11	34	3.25	34	384	3.00	215	36.0	1700
12	36	3.25	36	408	3.20	240	40.0	1800
13	38	3.25	38	432	3.40	265	44.0	1900
14	40	3.25	40	456	3.60	290	48.0	2000
16	44	3.25	44	504	4.00	340	56.0	2200
18	48	3.25	48	552	4.50	400	66.0	2400
20	52	3.25	52	600	5.00	470	77.0	2600
22	56	3.25	56	648	5.50	540	88.0	2800
24	60	3.25	60	696	6.00	620	100.0	3000
26	64	3.25	64	744	6.50	700	112.0	3200
28	68	3.25	68	792	7.00	790	125.0	3400
30	72	3.25	72	840	7.50	880	138.0	3600



OUTDOOR ACCESSORIES



AVAILABLE IN 6 SERIES OF ALUMINIUM MATERIAL



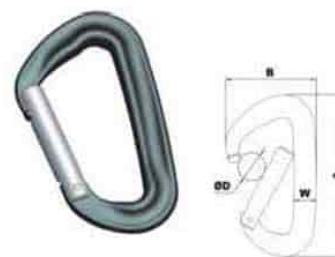
DO-Z2001

ART. NO.	A	B	D	d	W
DO-Z2001	86	39	13	20	9
	86	39	13	25	9



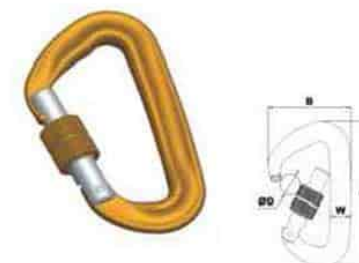
DO-Z2002

ART. NO.	A	B	D	d	W
DO-Z2002	86	39	11	20	9
	86	39	11	25	9



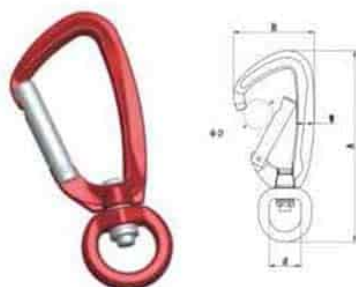
DO-Z2007

ART. NO.	A	B	D	d	W
DO-Z2007	81	46	16	/	11



DO-Z2008

ART. NO.	A	B	D	d	W
DO-Z2008	81	46	13	/	11



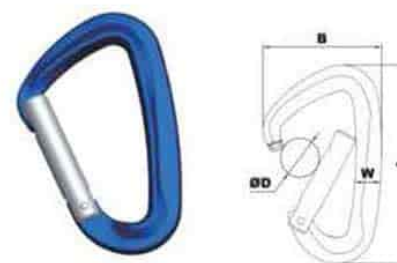
DO-Z2003

ART. NO.	A	B	D	d	W
DO-Z2003	89	39	13	16	9
	91	39	13	15.5	9



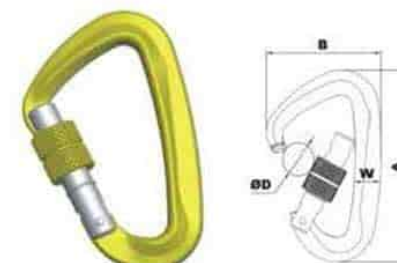
DO-Z2004

ART. NO.	A	B	D	d	W
DO-Z2004	89	39	11	16	9
	91	39	11	15.5	9



DO-Z2011

ART. NO.	A	B	D	d	W
DO-Z2011	80	48	16	/	10



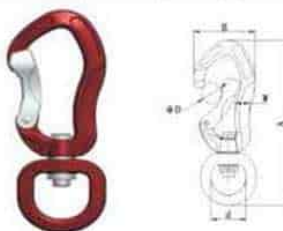
DO-Z2012

ART. NO.	A	B	D	d	W
DO-Z2012	80	48	13	/	10



DO-Z2005

ART. NO.	A	B	D	d	W
DO-Z2005	72	28	13	20	6.5
	72	28	13	25	6.5



DO-Z2006

ART. NO.	A	B	D	d	W
DO-Z2006	75	28	13	16	6.5
	77	28	13	15.5	6.5



DO-Z2013

ART. NO.	A	B	D	d	W
DO-Z2013	81	48	16	/	11



DO-Z2014

ART. NO.	A	B	D	d	W
DO-Z2014	81	48	13	/	11

AVAILABLE IN 7 SERIES OF ALUMINIUM MATERIAL



◀ CLIMBING CARABINER ▶

Kinds of Heavy Duty Aluminium Carabiners Clip for Hammocks, Swing, Locking Dog Leash and Harness, Camping, Key Chains, Hiking & Utility activities.



DO-Z2016



DO-Z2017



DO-Z2018



6x10.2mm 51g

DO-Z2019



DO-Z2020



DO-Z2015



DO-Z2022



DO-Z2023



DO-Z2021



DO-Z2024



DO-Z2025



DO-Z2026



DO-Z2027



DO-Z2028



DO-Z2029



DO-Z2030



DO-Z2031



DO-Z2032



DO-Z2033



DO-Z2034



DO-Z2035



DO-Z2036





DO-Z2015

ART NO	A	B	D	d	W
mm	mm	mm	mm	mm	mm
DO-Z2015	25	17	4		
	28	20	4		
	30	22	4		
	35	25	5		
	37	27	5		
	39	29	5		
	42	32	5		
	45	35	6		
	52	40	6		



DO-Z2016

ART NO	A	B	D	d	W
mm	mm	mm	mm	mm	mm
DO-Z2016	19	19	13	3	
	23	24	16	4	
	29	26	17	20	4.5
	35	35	25	25	5
	42	38	26	30	6



DO-Z2021

ART NO	A	B	D	d	W
mm	mm	mm	mm	mm	mm
DO-Z2021	38	27		30	3
	47	28		40	3
	59	28		50	3



DO-Z2022

ART NO	A	D	d	W
mm	mm	mm	mm	mm
DO-Z2022	18	4	15	3
	22	4	20	3
	29	4	25	4



DO-Z2017

ART NO	A	B	D	d	W
mm	mm	mm	mm	mm	mm
DO-Z2017	24	22	6	16	4
	28	25	10	20	4
	34	30	12	25	4
	43	38	15	32	4
	50	42	18	38	4



DO-Z2018

ART NO	A	B	D	d	W
mm	mm	mm	mm	mm	mm
DO-Z2018A	28	23	8	15	3
	28	31	13	20	3
	35	31	13	25	3
DO-Z2018B	22	21	4	15	3
	25	25	4	20	3
	30	28	5	25	3



DO-Z2037

Art No	Length (mm)	Webbing width (mm)	Weight (g)	Breaking load (kg)
DO-Z2037	85	15	42.5	500
	85	20	49.5	500
	85	25	42.5	500



DO-Z2038

Art No	Length (mm)	Width (mm)	Weight (g)	Load (kg)
DO-Z2038	85	25	48	500



DO-Z2019

ART NO	A	B	d	W
mm	mm	mm	mm	mm
DO-Z2019	26	33	16	2.5
	29	37	20	3
	35	46	25	3.5
	53	43	38	3.5
	64	46	50	3.5



DO-Z2020

ART NO	A	B	d	W
mm	mm	mm	mm	mm
DO-Z2020	28	25	20	3
	52	26	25	8



DO-Z2039

Art No	Length (mm)	Webbing width (mm)	Weight (g)	Breaking load (kg)
DO-Z2039	86	15	47	500
	85	25	50	500



DO-Z2040

Art No	Length (mm)	Webbing width (mm)	Weight (g)	Breaking load (kg)
DO-Z2040	67	12	20	600
	88	12	48.5	1100
	88	14	48.5	1000

DO-Z0001



5x50mm
6x60mm
7x70mm
8x80mm
10x100mm

DO-Z0002



5x50mm
6x60mm
7x70mm
8x80mm
10x100mm

DO-Z0003



5x50mm
6x60mm
7x70mm
8x80mm
10x100mm

DO-Z0013



DO-Z0014



6x9.8mm 60g

DO-Z0015



DO-Z0004



DO-Z0005



5.2x85mm

DO-Z0006



DO-Z0016



DO-Z0017



DO-Z0018



DO-Z0007



9.5x16mm
195g

DO-Z0008



8x14mm
99g

DO-Z0009



5.6x10.5mm
55g

DO-Z0019



5.6x9.3mm 52g

DO-Z0020



6.3x10.9mm 58g

DO-Z0021



6.3x10.9mm 80g

DO-Z0010



5.6x10.5mm
55g

DO-Z0011



5.6x10.5mm
64g

DO-Z0012



6x10.2mm
45g

DO-Z0022



5x82mm

DO-Z0023



DO-Z0024



DO-Z0025



DO-Z0026



DO-Z0027



DO-Z0037



DO-Z0038



DO-Z0039



4.6x4.6cm 14g

DO-Z0028



DO-Z0029



DO-Z0030



DO-Z0040



8.9x8.9cm 15g

DO-Z0041



DO-Z0042



DO-Z0031



DO-Z0032



DO-Z0033



DO-Z0043



DO-Z0044



DO-Z0045



DO-Z0034



DO-Z0035



DO-Z0036



DO-Z0046



DO-Z0047



DO-Z0048



DO-Z0049



DO-Z0050



DO-Z0051



DO-Z0052



DO-Z0053



DO-Z0054



DO-Z0055



DO-Z0056



DO-Z0057



DO-Z0058



DO-Z0059



DO-Z0060



DO-Z1013



DO-Z1014



DO-Z1015



DO-Z1016



DO-Z1017



DO-Z1018



DO-Z1019



DO-Z1020



DO-Z1021



DO-Z1001



DO-Z1002



DO-Z1003



DO-Z1004



DO-Z1005



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