

MAGRENKO

Index

Compression Springs	2
Extension Springs	19
Tension / Compression Rings	29
Cable Retaining Springs	30
'R' Clips	31
Button Clips	32

Direction of winding: Springs in this catalogue may be wound either left or right hand.

Solid length: It must be noted that springs may be over stressed if they are compressed until solid. It is recommended that only 75% of available compression is used to keep stresses within safe limits.

Finish: All stock springs are supplied in natural finish lightly oiled or zinc plated finish. Other finishes supplied on request.

TERMS

Account Customers: Settlement 30 days from invoice date.

Prices: Prices may be altered in line with increased production costs without notice.

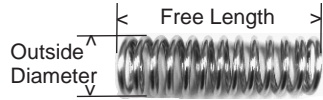
Minimum Order: A minimum order charge of £10.00 for all invoiced goods. Small quantities collected as cash sales from our factory subject to a £5.00 minimum charge.

Delivery: Delivery if required will be charged at cost.

V.A.T.: Will be added to all sales at the current rate

Discounts: Discounts are available for larger quantities.

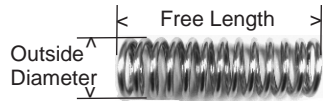
MAGRENKO



COMPRESSION SPRINGS

OUTSIDE DIAMETER		FREE LENGTH		WIRE DIAMETER		APPROX NO. OF COILS	RATE		SOLID LENGTH		MAGRENKO PART NO.
mm	ins	mm	ins	mm	ins		kgf/mm	lb/ins	mm	ins	
3.18	0.125	12.7	0.50	0.50	0.020	12	0.36	20.00	6.35	0.25	20020
		19.0	0.75			15	0.29	16.00	8.38	0.33	20025
		25.4	1.00			20	0.19	10.50	10.20	0.40	20030
		31.8	1.25			24	0.16	9.0	12.90	0.48	20035
4.76	0.188	12.7	0.50	0.56	0.022	8	0.20	11.50	5.08	0.20	20040
		19.0	0.75			10	0.16	9.00	5.59	0.22	20045
		25.4	1.00			12 ½	0.12	7.00	7.11	0.28	20050
		31.8	1.25			15 ½	0.10	5.50	8.89	0.35	20055
6.35	0.250	12.7	0.50	0.63	0.024	7	0.14	8.00	4.32	0.17	20060
				0.80	0.032	7	0.52	29.00	5.84	0.23	20065
				1.00	0.040	7	1.39	78.00	7.11	0.28	20070
6.35	0.250	19.0	0.75	0.63	0.024	9	0.10	5.50	5.59	0.22	20075
				0.80	0.032	9	0.37	21.00	7.62	0.30	20080
				1.00	0.040	9	1.00	56.0	9.14	0.36	20085
6.35	2.250	25.4	1.00	0.63	0.024	12 ½	0.07	3.75	8.13	0.32	20090
				0.80	0.032	14	0.20	11.50	11.90	0.47	20095
				1.00	0.040	15 ½	0.53	29.50	16.00	0.63	20100

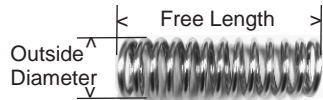
MAGRENKO



COMPRESSION SPRINGS

OUTSIDE DIAMETER		FREE LENGTH		WIRE DIAMETER		APPROX NO. OF COILS	RATE		SOLID LENGTH		MAGRENKO PART NO.
mm	ins	mm	ins	mm	ins		kgf/mm	lb/ins	mm	ins	
6.35	0.250	31.8	1.25	0.63	0.024	15 ½	0.05	2.75	9.65	0.38	20105
				0.80	0.032	17 ½	0.16	9.00	14.70	0.58	20110
				1.00	0.040	19	0.42	23.50	19.60	0.77	20115
6.35	0.250	38.1	1.50	0.63	0.024	18	0.04	2.50	11.40	0.45	20120
				0.80	0.032	20 ½	0.13	7.50	17.50	0.69	20125
				1.00	0.040	20 ½	0.35	19.50	22.90	0.90	20130
6.35	0.250	50.8	2.00	0.63	0.024	24	0.04	2.00	15.20	0.60	20135
				0.80	0.032	27	0.09	5.00	22.90	0.90	20140
				1.00	0.040	30	0.25	14.00	31.50	1.24	20145
7.94	0.313	19.0	0.75	0.71	0.028	8	0.12	6.50	5.84	0.23	20150
				0.90	0.036	8	0.33	18.50	7.62	0.30	20155
				1.25	0.048	8	1.21	68.00	9.91	0.39	20160
7.94	0.313	25.4	1.00	0.71	0.028	10	0.08	4.75	7.11	0.28	20165
				0.90	0.036	11 ½	0.21	12.00	10.70	0.42	20170
				1.25	0.048	13	0.65	36.50	16.00	0.63	20175

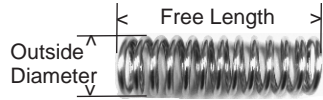
MAGRENKO



COMPRESSION SPRINGS

OUTSIDE DIAMETER		FREE LENGTH		WIRE DIAMETER		APPROX NO.OF COILS	RATE		SOLID LENGTH		MAGRENKO PART NO.
mm	ins	mm	ins	mm	ins		kgf/mm	lb/ins	mm	ins	
7.94	0.313	31.8	1.25	0.71	0.028	12	0.07	4.00	8.64	0.34	20180
				0.90	0.036	13 ½	0.18	10.00	12.70	0.50	20185
				1.25	0.048	15 ½	0.54	30.50	19.00	0.7	20190
7.94	0.313	38.1	1.50	0.71	0.028	14	0.06	3.25	10.20	0.40	20195
				0.90	0.036	16	0.15	8.50	14.70	0.58	20200
				1.25	0.048	18 ½	0.45	25.00	22.90	0.90	20205
7.94	0.313	50.8	2.00	0.71	0.028	18	0.04	2.25	13.00	0.51	20210
				0.90	0.036	21	0.11	6.00	19.60	0.77	20215
				1.25	0.048	24 1/2	0.33	18.50	30.50	1.20	20220
7.94	0.313	63.5	2.50	0.71	0.028	20	0.04	2.00	15.20	0.60	20225
				0.90	0.036	20	0.11	6.00	18.30	0.72	20230
				1.25	0.048	20	0.41	23.00	24.40	0.96	20235
9.53	0.375	19.00	0.75	0.90	0.036	8	0.20	11.00	7.62	0.30	20240
				1.25	0.048	8	0.64	36.00	9.91	0.39	20245
				1.60	0.064	8	2.37	133.00	13.20	0.52	20250

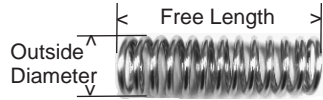
MAGRENKO



COMPRESSION SPRINGS

OUTSIDE DIAMETER		FREE LENGTH		WIRE DIAMETER		APPROX NO. OF COILS	RATE		SOLID LENGTH		MAGRENKO PART NO.
mm	ins	mm	ins	mm	ins		kgf/mm	lb/ins	mm	ins	
9.53	0.375	25.4	1.00	0.90	0.036	8 ½	0.17	9.50	8.13	0.32	20255
				1.25	0.048	10	0.48	27.00	12.70	0.50	20260
				1.60	0.064	10 ½	1.61	90.00	17.30	0.68	20265
9.53	0.375	31.8	1.25	0.90	0.036	10 ½	0.13	7.25	10.20	0.40	20270
				1.25	0.048	12	0.39	22.00	15.20	0.60	20275
				1.60	0.064	13	1.27	71.00	21.40	0.84	20280
9.53	0.375	38.1	1.50	0.90	0.036	12 ½	0.11	6.00	11.40	0.45	20285
				1.25	0.048	14 ½	0.31	17.50	17.80	0.70	20290
				1.60	0.064	15 ½	1.01	56.80	25.40	1.00	20295
9.53	0.375	50.8	2.00	0.90	0.036	15 ½	0.08	4.50	15.20	0.60	20300
				1.25	0.048	18 ½	0.23	13.00	22.90	0.90	20305
				1.60	0.064	20	0.79	44.00	32.50	1.28	20310
9.53	0.375	63.5	2.50	0.90	0.036	20	0.06	3.50	18.30	0.72	20315
				1.25	0.048	20	0.21	12.00	24.40	0.96	20320
				1.60	0.064	20	0.79	44.00	32.50	1.28	20325

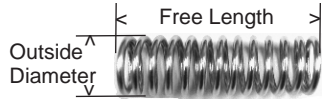
MAGRENKO



COMPRESSION SPRINGS

OUTSIDE DIAMETER		FREE LENGTH		WIRE DIAMETER		APPROX NO.OF COILS	RATE		SOLID LENGTH		MAGRENKO PART NO.
mm	ins	mm	ins	mm	ins		kgf/mm	lb/ins	mm	ins	
11.1	0.438	19.0	0.75	1.00	0.040	8	0.17	9.50	8.13	0.32	20330
				1.40	0.056	8	0.75	42.00	11.40	0.45	20335
				1.80	0.072	8	2.32	130.00	14.70	0.58	20340
11.1	0.438	25.4	1.00	1.00	0.040	7 ½	0.19	10.80	7.62	0.30	20345
				1.40	0.056	9	0.66	37.00	12.70	0.50	20350
				1.80	0.072	8 ½	2.20	123.00	15.70	0.62	20355
11.1	0.438	31.8	1.25	1.00	0.040	8 ½	0.16	9.25	8.64	0.34	20360
				1.40	0.056	11	0.51	28.50	15.70	0.62	20365
				1.80	0.072	11	1.57	88.00	20.30	0.80	20370
11.1	0.438	38.1	1.50	1.00	0.040	9 ½	0.13	7.50	10.20	0.40	20375
				1.40	0.056	13	0.41	23.00	18.50	0.73	20380
				1.80	0.072	13 ½	1.25	70.00	25.40	1.00	20385
11.1	0.438	50.8	2.00	1.00	0.040	13	0.09	5.25	13.70	0.54	20390
				1.40	0.056	16	0.32	18.00	22.90	0.90	20395
				1.80	0.072	17	0.91	51.00	32.00	1.26	20400

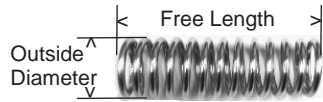
MAGRENKO



COMPRESSION SPRINGS

OUTSIDE DIAMETER		FREE LENGTH		WIRE DIAMETER		APPROX NO.OF COILS	RATE		SOLID LENGTH		MAGRENKO PART NO.
mm	ins	mm	ins	mm	ins		kgf/mm	lb/ins	mm	ins	
11.1	0.438	63.5	2.50	1.00	0.040	17 ½	0.07	4.00	17.80	0.70	20405
				1.40	0.056	20	0.26	14.50	28.40	1.12	20410
				1.80	0.072	21 ½	0.72	40.50	39.40	1.55	20415
11.1	0.438	76.2	3.00	1.00	0.040	20	0.05	3.00	20.30	0.80	20420
				1.40	0.056	20	0.26	14.50	28.40	1.12	20425
				1.80	0.072	20	0.79	44.00	36.60	1.44	20430
12.7	0.500	19.0	0.75	1.25	0.048	8	0.23	13.00	10.20	0.40	20435
				1.60	0.064	8	0.87	48.50	13.20	0.52	20440
				2.00	0.080	8	2.32	130.00	16.30	0.64	20445
12.7	0.500	25.4	1.00	1.25	0.048	9	0.20	11.50	11.20	0.44	20450
				1.60	0.064	8	0.86	48.00	13.20	0.52	20455
				2.00	0.080	7	2.82	158.00	14.20	0.56	20460
12.7	0.500	31.8	1.25	1.25	0.048	8	0.24	13.50	10.20	0.40	20465
				1.60	0.064	9	0.68	38.00	14.70	0.58	20470
				2.00	0.080	10	1.87	105.00	20.30	0.80	20475

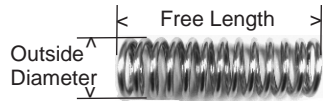
MAGRENKO



COMPRESSION SPRINGS

OUTSIDE DIAMETER		FREE LENGTH		WIRE DIAMETER		APPROX NO.OF COILS	RATE		SOLID LENGTH		MAGRENKO PART NO.
mm	ins	mm	ins	mm	ins		kgf/ mm	lb/ ins	mm	ins	
12.7	0.500	38.1	1.50	1.25	0.048	9 ½	0.20	11.00	11.70	0.46	20480
				1.60	0.064	11	0.55	31.00	18.00	0.71	20485
				2.00	0.080	12	1.43	80.00	24.40	0.96	20490
12.7	0.500	50.8	2.00	1.25	0.048	12 ½	0.14	7.75	15.20	0.60	20495
				1.60	0.064	14	0.43	24.00	22.90	0.90	20500
				2.00	0.080	15 ½	1.06	59.50	31.80	1.25	20505
12.7	0.500	63.5	2.50	1.25	0.048	15 ½	0.11	6.25	19.10	0.75	20510
				1.60	0.064	17	0.34	19.00	27.90	1.10	20515
				2.00	0.080	19	0.84	47.00	39.10	1.54	20520
12.7	0.500	76.2	3.00	1.25	0.048	18	0.09	5.25	22.40	0.88	20525
				1.60	0.064	20 ½	0.28	15.80	33.50	1.32	20530
				2.00	0.080	23	0.68	38.0	46.70	1.84	20535
15.9	0.625	25.4	1.00	1.40	0.056	9	0.20	11.00	13.00	0.51	20540
				1.80	0.072	7	0.82	46.00	13.00	0.51	20545
				2.36	0.092	6	3.04	170.00	14.20	0.56	20550

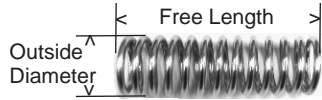
MAGRENKO



COMPRESSION SPRINGS

OUTSIDE DIAMETER		FREE LENGTH		WIRE DIAMETER		APPROX NO.OF COILS	RATE		SOLID LENGTH		MAGRENKO PART NO.
mm	ins	mm	ins	mm	ins		kgf/mm	lb/ins	mm	ins	
15.9	0.625	31.8	1.25	1.40	0.056	11	0.15	8.50	15.70	0.62	20555
				1.80	0.072	10	0.51	28.50	18.30	0.72	20560
				2.36	0.092	8	2.00	112.00	18.80	0.74	20565
15.9	0.625	38.1	1.50	1.40	0.056	7 ½	0.25	14.00	10.70	0.42	20570
				1.80	0.072	8 ½	0.62	35.00	15.70	0.62	20575
				2.36	0.092	10	1.52	85.00	23.40	0.92	20580
15.9	0.625	50.8	2.00	1.40	0.056	10	0.17	9.50	14.20	0.56	20585
				1.80	0.072	11	0.46	25.60	20.30	0.80	20590
				2.36	0.092	12 ½	1.14	64.00	29.20	1.15	20595
15.9	0.625	63.5	2.50	1.40	0.056	12	0.14	7.75	17.30	0.68	20600
				1.80	0.072	13 ½	0.35	19.50	25.40	1.00	20605
				2.36	0.092	15 ½	0.89	50.00	36.60	1.44	20610
15.9	0.625	76.2	3.00	1.40	0.056	14	0.11	6.00	20.80	0.82	20615
				1.80	0.072	16	0.29	16.50	29.50	1.16	20620
				2.36	0.092	17 ½	0.79	44.00	40.90	1.61	20625

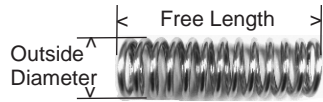
MAGRENKO



COMPRESSION SPRINGS

OUTSIDE DIAMETER		FREE LENGTH		WIRE DIAMETER		APPROX NO.OF COILS	RATE		SOLID LENGTH		MAGRENKO PART NO.
mm	ins	mm	ins	mm	ins		kgf/mm	lb/ins	mm	ins	
15.9	0.625	88.9	3.50	1.40	0.056	16 ½	0.09	5.00	23.60	0.93	20630
				1.80	0.072	18 ½	0.25	13.80	33.80	1.33	20635
				2.36	0.092	20 ½	0.65	36.50	47.80	1.88	20640
15.9	0.625	101.6	4.00	1.40	0.056	20	0.08	4.25	28.50	1.12	20645
				1.80	0.072	20	0.21	12.00	36.60	1.44	20650
				2.36	0.092	20	0.67	37.50	46.70	1.84	20655
19.0	0.750	25.4	1.00	1.80	0.072	6	0.55	31.00	11.20	0.44	20660
				2.36	0.092	6	1.61	90.00	14.20	0.56	20665
				3.00	0.116	6	4.55	255.00	17.80	0.70	20670
19.0	0.750	38.1	1.50	1.80	0.072	10	0.29	16.00	18.30	0.72	20675
				2.36	0.092	8	1.07	60.00	18.80	0.74	20680
				3.00	0.116	9	2.59	145.00	27.90	1.10	20685
19.0	0.750	50.8	2.00	1.80	0.072	8 ½	0.35	19.50	15.70	0.62	20690
				2.36	0.092	10	0.80	45.00	23.40	0.92	20695
				3.00	0.116	10 ½	2.14	120.00	31.00	1.22	20700

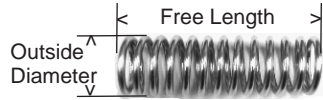
MAGRENKO



COMPRESSION SPRINGS

OUTSIDE DIAMETER		FREE LENGTH		WIRE DIAMETER		APPROX NO.OF COILS	RATE		SOLID LENGTH		MAGRENKO PART NO.
mm	ins	mm	ins	mm	ins		kgf/mm	lb/ins	mm	ins	
19.0	0.750	63.5	2.50	1.80	0.072	10 ½	0.26	14.50	19.30	0.76	20705
				2.36	0.092	12	0.64	36.00	28.20	1.11	20710
				3.00	0.116	13	1.66	93.00	38.40	1.51	20715
19.0	0.750	76.2	3.00	1.80	0.072	12 ½	0.21	12.00	22.90	0.90	20720
				2.36	0.092	14	0.54	30.00	33.00	1.30	20725
				3.00	0.116	15 ½	1.36	76.00	45.70	1.80	20730
19.0	0.750	88.9	3.50	1.80	0.072	14 ½	0.18	10.00	27.90	1.10	20735
				2.36	0.092	16	0.46	26.00	37.60	1.48	20740
				3.00	0.116	18	1.14	64.00	53.30	2.10	20745
19.0	0.750	101.6	4.00	1.80	0.072	16 ½	0.15	8.50	30.50	1.20	20750
				2.36	0.092	18	0.41	22.80	42.20	1.66	20755
				3.00	0.116	20 ½	0.96	54.00	60.50	2.38	20760
19.0	0.750	114.3	4.50	1.80	0.072	20	0.12	6.75	36.60	1.44	20765
				2.36	0.092	20	0.36	20.00	46.70	1.84	20770
				3.00	0.116	20 ½	0.98	55.00	60.50	2.38	20775

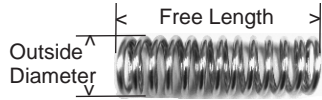
MAGRENKO



COMPRESSION SPRINGS

OUTSIDE DIAMETER		FREE LENGTH		WIRE DIAMETER		APPROX NO.OF COILS	RATE		SOLID LENGTH		MAGRENKO PART NO.
mm	ins	mm	ins	mm	ins		kgf/mm	lb/ins	mm	ins	
22.2	0.875	38.1	1.50	2.00	0.080	10	0.26	14.50	20.30	0.80	20780
				2.65	0.104	8	1.09	61.00	21.30	0.84	20785
				3.25	0.128	6	4.00	224.00	19.60	0.77	20790
22.2	0.875	50.8	2.00	2.00	0.080	7 ½	0.36	20.00	15.20	0.60	20795
				2.65	0.104	8 ½	1.02	57.00	22.90	0.90	20800
				3.25	0.128	9 ½	2.21	124.00	31.00	1.22	20805
22.2	0.875	63.5	2.50	2.00	0.080	9	0.29	16.00	18.30	0.72	20810
				2.65	0.104	10	0.81	45.50	27.90	1.10	20815
				3.25	0.128	11 ½	1.73	97.00	37.60	1.48	20820
22.2	0.875	76.2	3.00	2.00	0.080	10 ½	0.25	13.80	21.40	0.84	20825
				2.65	0.104	12	0.66	37.00	31.80	1.25	20830
				3.25	0.128	13 ½	1.45	81.00	44.50	1.75	20835
22.2	0.875	88.9	3.50	2.00	0.080	12	0.21	11.80	24.40	0.96	20840
				2.65	0.104	14	0.55	31.00	37.10	1.46	20845
				3.25	0.128	15 ½	1.22	68.50	50.80	2.00	20850

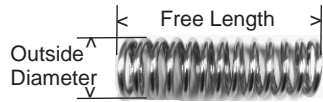
MAGRENKO



COMPRESSION SPRINGS

OUTSIDE DIAMETER		FREE LENGTH		WIRE DIAMETER		APPROX NO.OF COILS	RATE		SOLID LENGTH		MAGRENKO PART NO.
mm	ins	mm	ins	mm	ins		kgf/mm	lb/ins	mm	ins	
22.2	0.875	102.0	4.00	2.00	0.080	13 ½	0.18	10.30	27.90	1.10	20855
				2.65	0.104	15 ½	0.49	27.50	41.10	1.62	20860
				3.25	0.128	18	1.04	58.00	58.90	2.32	20865
22.2	0.875	114.0	4.50	2.00	0.080	20	0.12	6.50	40.60	1.60	20870
				2.65	0.104	20	0.37	20.50	53.30	2.10	20875
				3.25	0.128	18	1.04	58.00	58.90	2.32	20880
22.2	0.875	127.0	5.00	2.00	0.080	22	0.11	6.00	45.70	1.80	20885
				2.65	0.104	20	0.37	20.50	53.30	2.10	20890
				3.25	0.128	20	0.92	51.50	65.00	2.56	20895
25.4	1.00	38.1	1.50	2.65	0.104	8	0.71	40.00	21.40	0.84	20900
				3.25	0.128	6	2.50	140.00	20.30	0.80	20905
				4.00	0.160	6	7.14	400.00	24.40	0.96	20910
25.4	1.00	50.8	2.00	2.65	0.104	9	0.59	33.00	23.90	0.94	20915
				3.25	0.128	8	1.73	97.00	26.20	1.03	20920
				4.00	0.160	7	5.68	318.00	28.40	1.12	20925

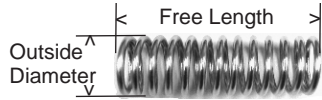
MAGRENKO



COMPRESSION SPRINGS

OUTSIDE DIAMETER		FREE LENGTH		WIRE DIAMETER		APPROX NO.OF COILS	RATE		SOLID LENGTH		MAGRENKO PART NO.
mm	ins	mm	ins	mm	ins		kgf/mm	lb/ins	mm	ins	
25.4	1.00	63.5	2.50	2.65	0.104	8 ½	0.64	36.00	22.90	0.90	20930
				3.25	0.128	9 ½	1.37	77.00	31.00	1.22	20935
				4.00	0.160	10	3.57	200.00	40.60	1.60	20940
25.4	1.00	76.2	3.00	2.65	0.104	10	0.53	29.50	27.90	1.10	20945
				3.25	0.128	11	1.16	65.00	36.10	1.42	20950
				4.00	0.160	12	2.86	160.00	49.30	1.94	20955
25.4	1.00	88.9	3.50	2.65	0.104	11 ½	0.45	25.00	30.50	1.20	20960
				3.25	0.128	12 ½	1.00	56.00	40.60	1.60	20965
				4.00	0.160	14	2.36	132.00	56.90	2.24	20970
25.4	1.00	101.6	4.00	2.65	0.104	13	0.38	21.50	34.50	1.36	20975
				3.25	0.128	14	0.86	48.00	45.70	1.80	20980
				4.00	0.160	15 ½	2.14	120.00	63.00	2.48	20985
25.4	1.00	127.0	5.00	2.65	0.104	15 ½	0.31	17.50	41.10	1.62	20990
				3.25	0.128	17 ½	0.66	37.00	56.90	2.24	20995
				4.00	0.160	19 ½	1.62	91.00	79.20	3.12	21000

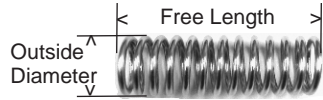
MAGRENKO



COMPRESSION SPRINGS

OUTSIDE DIAMETER		FREE LENGTH		WIRE DIAMETER		APPROX NO. OF COILS	RATE		SOLID LENGTH		MAGRENKO PART NO.
mm	ins	mm	ins	mm	ins		kgf/mm	lb/ins	mm	ins	
25.4	1.00	152.4	6.00	2.65	0.104	20	0.23	13.00	53.30	2.10	21005
				3.25	0.128	20	0.58	32.50	65.00	2.56	21010
				4.00	0.160	18	1.87	105.00	73.70	2.90	21015
31.8	1.25	50.8	2.00	2.65	0.104	9	0.29	16.00	23.90	0.94	21020
				3.25	0.128	8	0.79	44.00	27.90	1.10	21025
				4.00	0.160	7	2.54	142.00	29.00	1.14	21030
31.8	1.25	76.2	3.00	2.65	0.104	10	0.25	14.00	27.90	1.10	21035
				3.25	0.128	11	0.55	31.00	35.80	1.41	21040
				4.00	0.160	12	1.30	73.00	48.80	1.92	21045
31.8	1.25	101.6	4.00	2.65	0.104	18	0.12	7.00	47.50	1.87	21050
				3.25	0.128	15	0.39	22.00	49.30	1.94	21055
				4.00	0.160	12	1.29	72.00	49.30	1.94	21060
31.8	1.25	127.0	5.00	2.65	0.104	20	0.11	6.25	30.50	2.10	21065
				3.25	0.128	17	0.33	18.30	53.30	2.18	21070
				4.00	0.160	15	1.04	58.00	61.00	2.40	21075

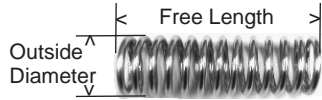
MAGRENKO



COMPRESSION SPRINGS

OUTSIDE DIAMETER		FREE LENGTH		WIRE DIAMETER		APPROX NO.OF COILS	RATE		SOLID LENGTH		MAGRENKO PART NO.
mm	ins	mm	ins	mm	ins		kgf/mm	lb/ins	mm	ins	
31.8	1.25	152.4	6.00	2.65	0.104	24	0.09	5.25	63.50	2.50	21080
				3.25	0.128	20	0.28	15.50	65.00	2.56	21085
				4.00	0.160	15	1.00	56.00	61.00	2.40	21090
38.1	1.50	76.2	3.00	3.25	0.128	10	0.34	18.80	32.50	1.28	21095
				4.00	0.160	9	1.00	56.00	36.60	1.44	21100
				4.87	0.192	8	2.57	144.00	39.10	1.54	21105
38.1	1.50	101.6	4.00	3.25	0.128	15	0.21	11.80	48.80	1.92	21110
				4.00	0.160	12	0.71	40.00	48.80	1.92	21115
				4.87	0.192	10	1.96	110.00	48.80	1.92	21120
38.1	1.50	127.0	5.00	3.25	0.128	18	0.18	10.00	58.70	2.31	21125
				4.00	0.160	15	0.54	30.00	61.00	2.40	21130
				4.87	0.192	11	1.73	97.00	53.80	2.12	21135
38.1	1.50	152.4	6.00	3.25	0.128	22	0.14	8.00	71.60	2.82	21140
				4.00	0.160	19	0.41	23.00	78.70	3.10	21145
				4.87	0.192	15	1.20	67.00	73.20	2.88	21150

MAGRENKO

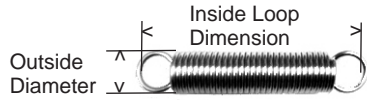


COMPRESSION SPRINGS

OUTSIDE DIAMETER		FREE LENGTH		WIRE DIAMETER		APPROX NO.OF COILS	RATE		SOLID LENGTH		MAGRENKO PART NO.
mm	ins	mm	ins	mm	ins		kgf/mm	lb/ins	mm	ins	
50.8	2.00	76.2	3.00	3.25	0.128	10	0.13	7.50	32.50	1.28	21155
				4.00	0.160	9	0.38	21.50	36.60	1.44	21160
				4.87	0.192	7	1.19	66.50	34.30	1.35	21165
50.8	2.00	101.6	4.00	3.25	0.128	15	0.08	4.75	48.80	1.92	21170
				4.00	0.160	12	0.28	15.00	48.80	1.92	21175
				4.87	0.192	10	0.75	42.00	48.80	1.92	21180
50.8	2.00	127.0	5.00	3.25	0.128	18	0.07	3.75	58.70	2.31	21185
				4.00	0.160	15	0.20	11.50	61.00	2.40	21190
				4.87	0.192	11	0.66	37.00	53.80	2.12	21195
50.8	2.00	152.4	6.00	3.25	0.128	22	0.05	3.00	71.60	2.82	21200
				4.00	0.160	19	0.16	9.00	78.70	3.10	21205
				4.87	0.192	11	0.66	37.00	53.80	2.12	21210
50.8	2.00	177.8	7.00	3.25	0.128	23	0.05	2.75	74.90	2.95	21215
				4.00	0.160	20	0.16	9.00	81.30	3.20	21220
				4.87	0.192	16	0.43	24.00	78.70	3.10	21225

MAGRENKO

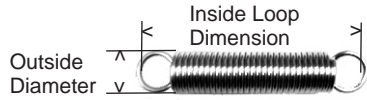
EXTENSION SPRINGS



OUTSIDE DIAMETER		FREE LENGTH INSIDE LOOPS		WIRE DIAMETER		INITIAL TENSION		RATE		MAXIMUM EXTENSION		MAGRENKO PART NO.
mm	ins	mm	ins	mm	ins	Kgf /mm	lb/ ins	kgf/ mm	lb/ ins	mm	ins	
3.2	0.125	12.70	0.50	0.38	0.015	0.10	0.23	0.046	2.58	12.70	0.50	30020
				0.50	0.020	0.29	0.63	0.2292	12.82	6.35	0.25	30025
3.2	0.125	19.00	0.75	0.38	0.015	0.11	0.25	0.025	1.41	22.90	0.90	30030
				0.50	0.020	0.26	0.57	0.127	7.10	11.40	0.45	30035
3.2	0.125	25.40	1.00	0.38	0.015	0.11	0.24	0.017	0.95	33.00	1.30	30040
				0.50	0.020	0.28	0.62	0.088	4.90	19.00	0.75	30045
3.2	0.125	38.10	1.50	0.38	0.015	0.10	0.22	0.010	0.58	44.40	1.75	30050
				0.50	0.020	0.27	0.60	0.054	3.03	27.90	1.10	30055
3.2	0.125	50.80	2.00	0.38	0.015	0.13	0.28	0.008	0.42	71.00	2.80	30060
				0.50	0.020	0.27	0.60	0.039	2.0	36.80	1.45	30065

MAGRENKO

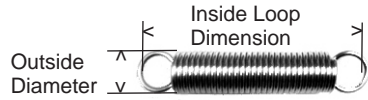
EXTENSION SPRINGS



OUTSIDE DIAMETER		FREE LENGTH INSIDE LOOPS		WIRE DIAMETER		INITIAL TENSION		RATE		MAXIMUM EXTENSION		MAGRENKO PART NO.
mm	ins	mm	ins	mm	ins	Kgf /mm	lb/ ins	kgf/ mm	lb/ ins	mm	ins	
4.8	0.188	12.70	0.50	0.50	0.020	0.14	0.32	0.075	4.22	13.20	0.52	30070
				0.60	0.024	0.24	0.54	0.198	11.10	6.50	0.25	30075
4.8	0.188	19.00	0.75	0.50	0.020	0.12	0.26	0.039	2.20	25.40	1.00	30080
				0.60	0.024	0.24	0.52	0.104	5.85	15.70	0.62	30085
4.8	0.188	25.40	1.00	0.50	0.020	0.18	0.40	0.026	1.43	35.60	1.40	30090
				0.60	0.024	0.29	0.64	0.067	3.73	23.50	0.93	30095
4.8	0.188	38.10	1.50	0.50	0.020	0.22	0.48	0.015	0.82	63.50	2.50	30100
				0.60	0.024	0.43	0.96	0.039	2.16	35.60	1.40	30105
4.8	0.188	50.80	2.00	0.50	0.020	0.15	0.34	0.010	0.58	95.20	3.75	30110
				0.60	0.024	0.42	0.92	0.027	1.53	53.30	2.10	30115

MAGRENKO

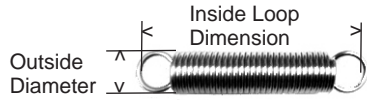
EXTENSION SPRINGS



OUTSIDE DIAMETER		FREE LENGTH INSIDE LOOPS		WIRE DIAMETER		INITIAL TENSION		RATE		MAXIMUM EXTENSION		MAGRENKO PART NO.
mm	ins	mm	ins	mm	ins	Kgf /mm	lb/ ins	kgf/ mm	lb/ ins	mm	ins	
6.35	0.250	25.40	1.00	0.60	0.024	0.23	0.051	0.032	1.80	27.40	1.08	30120
				0.80	0.032	0.78	1.72	0.140	7.86	18.30	0.72	30125
				1.00	0.040	1.31	2.90	0.457	25.60	10.20	0.40	30130
6.35	0.250	38.10	1.50	0.60	0.024	0.25	0.55	0.017	0.93	68.6	2.70	30135
				0.80	0.032	0.83	1.82	0.076	4.28	31.70	1.25	30140
				1.00	0.040	1.81	4.00	0.253	14.20	16.50	0.65	30145
6.355	0.2500	50.80	2.000	0.60	0.024	0.24	0.052	0.011	0.63	101.60	4.00	30150
				0.80	0.032	0.77	1.70	0.052	2.90	45.70	1.80	30155
				1.00	0.040	1.79	3.95	0.175	9.81	23.60	0.93	30160
6.35	0.250	63.50	2.50	0.60	0.024	0.19	0.43	0.009	0.48	101.60	4.00	30165
				0.80	0.032	0.70	1.55	0.040	2.22	55.90	2.20	30170
				1.00	0.040	1.72	3.80	0.134	7.50	29.20	1.15	30175
6.35	0.250	76.20	3.00	0.60	0.024	0.25	0.55	0.007	0.39	127.00	5.00	30180
				0.80	0.032	0.82	1.80	0.032	1.80	81.30	3.20	30185
				1.00	0.040	1.51	3.32	0.108	6.07	42.70	1.68	30190

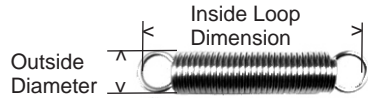
MAGRENKO

EXTENSION SPRINGS



OUTSIDE DIAMETER		FREE LENGTH INSIDE LOOPS		WIRE DIAMETER		INITIAL TENSION		RATE		MAXIMUM EXTENSION		MAGRENKO PART NO.
mm	ins	mm	ins	mm	ins	Kgf /mm	lb/ ins	kgf/ mm	lb/ ins	mm	ins	
8.00	0.313	25.40	1.00	0.80	0.032	0.54	1.20	0.071	4.00	31.50	1.24	30195
				1.25	0.048	2.38	5.25	0.696	39.00	8.60	0.34	30200
8.00	0.313	38.10	1.50	0.80	0.032	0.50	1.10	0.040	2.23	57.90	2.28	30205
				1.25	0.048	2.27	5.00	0.341	19.07	18.30	0.72	30210
8.00	0.313	50.80	2.00	0.80	0.032	0.45	1.00	0.026	1.48	85.30	3.36	30215
				1.25	0.048	2.27	5.00	0.233	13.02	26.70	1.05	30220
8.00	0.313	63.50	2.50	0.80	0.032	0.50	1.10	0.020	1.10	101.60	4.00	30225
				1.25	0.048	2.36	5.20	0.174	9.76	35.00	1.38	30230
8.00	0.313	76.20	3.00	0.80	0.032	0.54	1.20	0.016	0.88	137.20	5.40	30235
				1.25	0.048	2.40	5.30	0.139	7.81	43.70	1.72	30240

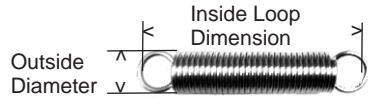
MAGRENKO



EXTENSION SPRINGS

OUTSIDE DIAMETER		FREE LENGTH INSIDE LOOPS		WIRE DIAMETER		INITIAL TENSION		RATE		MAXIMUM EXTENSION		MAGRENKO PART NO.
mm	ins	mm	ins	mm	ins	Kgf /mm	lb/ ins	kgf/ mm	lb/ ins	mm	ins	
9.5	0.375	38.10	1.50	0.90	0.036	0.50	1.10	0.043	2.43	46.00	1.81	30245
				1.25	0.048	1.90	4.20	0.211	11.80	25.40	1.00	30250
				1.60	0.064	3.74	8.25	0.988	55.30	11.20	0.40	30255
9.5	0.375	50.80	2.00	0.90	0.036	0.34	0.75	0.029	1.65	84.60	3.00	30260
				1.25	0.048	1.81	4.00	0.134	7.53	40.10	1.58	30265
				1.60	0.064	4.54	10.00	0.636	35.63	16.20	0.64	30270
9.5	0.375	63.50	2.50	0.90	0.036	0.52	1.14	0.021	1.20	108.20	4.26	30275
				1.25	0.048	1.70	3.75	0.099	5.52	50.80	2.00	30280
				1.60	0.064	4.54	10.00	0.485	27.17	21.10	0.83	30285
9.5	0.375	76.20	3.00	0.90	0.036	0.45	1.00	0.017	0.94	101.60	4.00	30290
				1.25	0.048	1.93	4.25	0.079	4.41	59.70	2.35	30295
				1.60	0.064	5.00	11.00	0.382	21.38	25.40	1.00	30300
9.5	0.375	101.60	4.00	0.90	0.036	0.57	1.26	0.012	0.67	152.40	6.00	30305
				1.25	0.048	1.81	4.00	0.055	3.10	96.50	3.80	30310
				1.60	0.064	4.54	10.00	0.268	15.00	39.90	1.57	30315

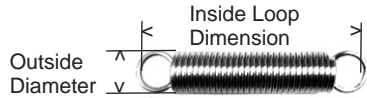
MAGRENKO



EXTENSION SPRINGS

OUTSIDE DIAMETER		FREE LENGTH INSIDE LOOPS		WIRE DIAMETER		INITIAL TENSION		RATE		MAXIMUM EXTENSION		MAGRENKO PART NO.
mm	ins	mm	ins	mm	ins	Kgf /mm	lb/ ins	kgf/ mm	lb/ ins	mm	ins	
9.5	0.375	152.40	6.00	0.90	0.036	0.45	1.00	0.008	0.42	254.00	10.00	30320
				1.25	0.048	1.22	2.70	0.035	1.95	146.00	5.75	30325
				1.60	0.064	3.63	8.00	0.168	9.43	50.80	2.00	30330
12.7	0.500	50.80	2.00	1.25	0.048	0.79	1.75	0.063	3.51	50.80	2.00	30335
				1.60	0.064	2.20	5.00	0.281	15.72	28.00	1.10	30340
				2.00	0.080	4.54	10.00	0.916	51.30	17.30	0.68	30345
12.7	0.500	76.20	3.00	1.25	0.048	0.79	1.75	0.033	1.86	118.00	4.65	30350
				1.60	0.064	2.38	5.25	0.153	8.56	47.50	1.87	30355
				2.00	0.080	5.00	11.00	0.507	28.40	27.90	1.10	30360
12.7	0.500	101.60	4.00	1.25	0.048	0.73	1.60	0.023	1.26	133.00	5.24	30365
				1.60	0.064	2.31	5.10	0.105	5.88	77.50	3.05	30370
				2.00	0.080	4.31	9.50	0.350	19.62	43.40	1.70	30375
12.7	0.500	127.00	5.00	1.25	0.048	0.73	1.62	0.017	0.96	235.00	9.25	30380
				1.60	0.064	2.15	4.75	0.079	4.44	99.00	3.90	30385
				2.00	0.080	4.31	9.50	0.268	15.00	48.50	1.90	30390

MAGRENKO

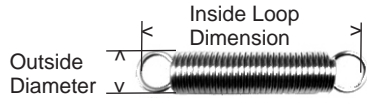


EXTENSION SPRINGS

OUTSIDE DIAMETER		FREE LENGTH INSIDE LOOPS		WIRE DIAMETER		INITIAL TENSION		RATE		MAXIMUM EXTENSION		MAGRENKO PART NO.
mm	ins	mm	ins	mm	ins	Kgf /mm	lb/ ins	kgf/ mm	lb/ ins	mm	ins	
12.7	0.500	152.40	6.00	1.25	0.048	0.82	1.80	0.014	0.77	247.00	9.74	30395
				1.60	0.064	2.31	5.10	0.064	3.60	114.00	4.48	30400
				2.00	0.080	4.31	9.50	0.217	12.13	50.80	2.00	30405
15.9	0.625	76.20	3.00	1.60	0.064	1.50	3.30	0.081	4.55	80.00	3.15	30410
				2.00	0.080	2.72	6.00	0.265	14.85	28.00	1.10	30415
15.9	0.625	101.60	4.00	1.60	0.064	1.54	3.40	0.053	2.97	116.00	4.58	30420
				2.00	0.080	3.35	7.38	0.174	9.77	64.00	2.52	30425
15.9	0.625	127.00	5.00	1.60	0.064	1.45	3.20	0.040	2.22	155.00	6.10	30430
				2.00	0.080	3.26	7.20	0.134	7.50	95.00	3.75	30435
15.9	0.625	152.40	6.00	1.60	0.064	1.59	3.50	0.032	1.77	194.00	7.63	30440
				2.00	0.080	3.40	7.50	0.104	5.84	102.00	4.00	30445

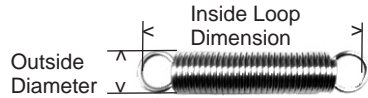
MAGRENKO

EXTENSION SPRINGS



OUTSIDE DIAMETER		FREE LENGTH INSIDE LOOPS		WIRE DIAMETER		INITIAL TENSION		RATE		MAXIMUM EXTENSION		MAGRENKO PART NO.
mm	ins	mm	ins	mm	ins	Kgf /mm	lb/ ins	kgf/ mm	lb/ ins	mm	ins	
19.0	0.75	76.20	3.00	1.80	0.072	1.63	3.60	0.094	5.27	74.20	2.90	30450
				2.36	0.092	1.36	3.00	0.374	21.00	40.10	1.58	30455
				3.00	0.116	6.80	15.00	1.258	70.44	19.80	0.78	30460
19.0	0.750	101.60	4.00	1.80	0.072	1.59	3.50	0.059	3.31	126.50	5.00	30465
				2.36	0.092	2.27	5.00	0.231	12.91	59.40	2.34	30470
				3.00	0.116	7.71	17.00	0.793	44.40	34.30	1.35	30475
19.0	0.750	127.00	5.00	1.80	0.072	1.59	3.50	0.044	2.48	169.00	6.65	30480
				2.36	0.092	1.81	4.00	0.163	9.15	71.10	2.80	30485
				3.00	0.116	8.62	19.00	0.574	32.20	40.40	1.60	30490
19.0	0.750	152.40	6.00	1.80	0.072	0.91	2.00	0.035	1.96	203.00	8.00	30495
				2.36	0.092	2.72	6.00	0.131	7.34	89.00	3.50	30500
				3.00	0.116	7.03	15.50	0.453	25.40	71.00	2.00	30505
19.0	0.750	177.80	7.00	1.80	0.072	0.91	2.00	0.028	1.56	254.00	10.00	30510
				2.36	0.092	4.08	9.00	0.108	6.03	101.60	4.00	30515
				3.00	0.116	8.16	18.00	0.380	21.30	54.60	2.15	30520

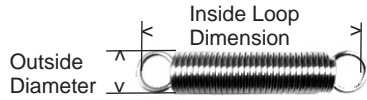
MAGRENKO



EXTENSION SPRINGS

OUTSIDE DIAMETER		FREE LENGTH INSIDE LOOPS		WIRE DIAMETER		INITIAL TENSION		RATE		MAXIMUM EXTENSION		MAGRENKO PART NO.
mm	ins	mm	ins	mm	ins	Kgf /mm	lb/ ins	kgf/ mm	lb/ ins	mm	ins	
19.0	0.750	203.20	8.00	1.80	0.072	1.40	3.10	0.020	1.38	190.00	7.50	30525
				2.36	0.092	2.44	5.38	0.092	5.16	127.00	5.00	30530
				3.00	0.116	9.98	22.00	0.323	18.10	63.50	2.50	30535
22.2	0.875	101.60	4.00	2.36	0.092	3.46	7.62	0.146	8.17	71.40	2.80	30540
				3.00	0.116	7.94	17.50	0.506	28.35	33.50	1.32	30545
22.2	0.875	152.40	6.00	2.36	0.092	0.91	2.00	0.081	4.56	114.00	4.50	30550
				3.00	0.116	7.14	15.75	0.280	15.67	72.40	2.85	30555
22.2	0.875	203.20	8.00	2.36	0.092	2.13	5.10	0.056	3.16	178.00	7.00	30560
				3.00	0.116	7.48	16.50	0.195	10.92	113.00	4.44	30565
25.4	1.00	101.60	4.00	2.65	0.104	2.36	5.20	0.204	11.41	61.00	2.40	30570
				3.25	0.128	8.39	18.50	0.611	34.23	37.00	1.45	30575

MAGRENKO

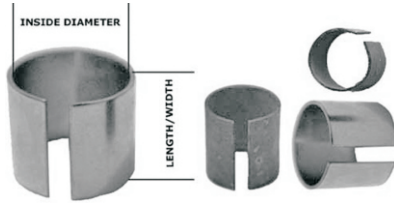


EXTENSION SPRINGS

OUTSIDE DIAMETER		FREE LENGTH INSIDE LOOPS		WIRE DIAMETER		INITIAL TENSION		RATE		MAXIMUM EXTENSION		MAGRENKO PART NO.
mm	ins	mm	ins	mm	ins	Kgf /mm	lb/ ins	kgf/ mm	lb/ ins	mm	ins	
25.4	1.00	152.40	6.00	2.65	0.104	3.63	8.00	0.106	5.92	111.50	4.40	30580
				3.25	0.128	7.37	16.25	0.315	17.63	64.80	2.55	30585
25.4	1.00	177.80	7.00	2.65	0.104	3.35	7.38	0.088	4.92	115.60	4.55	30590
				3.25	0.128	7.03	15.50	0.260	14.55	72.40	2.85	30595
25.4	1.00	203.20	8.00	2.65	0.104	3.86	8.50	0.071	3.96	160.00	6.30	30600
				3.25	0.128	8.62	19.00	0.217	12.13	81.00	3.20	30605
25.4	1.00	228.60	9.00	2.65	0.104	4.42	9.75	0.061	3.41	216.00	8.50	30610
				3.25	0.128	8.16	18.00	0.186	10.40	102.00	4.00	30615

MAGRENKO

TENSION/COMPRESSION RINGS

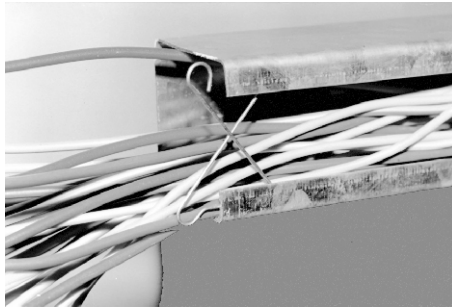


Magrenko manufacture **Tension Rings** in many sizes and materials for a wide range of applications. **Tension Rings** are commonly used in electrical Plug/Socket applications to ensure good conductivity but may be used wherever a good fit is to be maintained.

Inside Diameter	Length/Width	Material Thickness	More Information	Part Number
4.6	6.73	0.25		M1484
5.0	7.8	0.25	With Barbs & Flare	M2500
5.0	6.86	0.31		M1045
5.3	8.7	0.38		M1500
6.8	6.35	0.31		M1487
7.0	6.86	0.31		M1046
9.8	8.7	0.38		M1506
10.5	9.5	0.50	With Barbs	M1080
14.6	6.0	0.61		M2340
16.5	4.5	0.81		M2498
16.5	6.0	0.61		M2435

MAGRENKO

CABLE RETAINERS



Magrenko also specialises in Cable Retainers.

A quick and easy tool for contractors, which will improve the appearance, efficiency and effectiveness of any installation.

Available in various sizes to meet your requirements.

Key Characteristics:

- Easy to fit**
- Spring Clip**
- Reusable**
- Strength Tested**
- Weather Resistant**
- Packaged in bags of 10 for easy handling**

Holds cable neatly, firmly and professionally in trunking carcase

Trunking Size	A	B	D (Diameter)	Part Number
50mm	54	39	1.22	MS400/50
75mm	82	6	1.83	MS400/75
100mm	110	67	1.83	MS400/100
150mm	163	67	1.83	MS400/150

MAGRENKO

SPRING STEEL “R” CLIPS

Spring Steel, Zinc Plated



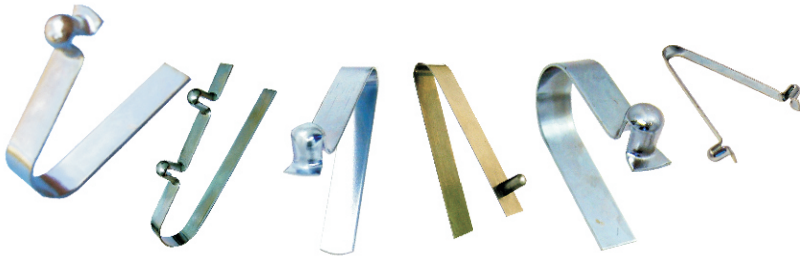
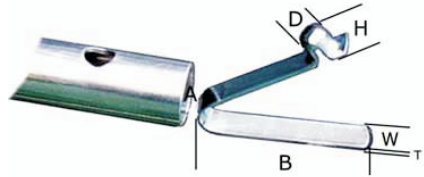
Our standard range of “R” Clips
Other sizes can be supplied to your requirements

Shaft Diameter mm	Material Diameter mm	Part No.
5	1.2	MR0010
10	1.5	MR0020
13	1.8	MR0030
16	2.5	MR0040
19	2.6	MR0050
23	3.3	MR0060

MAGRENKO

BUTTON CLIPS

Spring Steel, Pressed Button, Zinc Plated



This is our standard range of Button Clips.
We also manufacture Clips with “Solid Buttons”
“Double Buttons” and to your specific requirements

Tube Dia “A” (inside) mm	Length “B”	Button Dia “D”	Button Height “H”	Material Width “W”	Material Thickness “T”	Part No.
10	24	4.5	5.7	4.7	0.38	MS300/10
13	32	5.5	7.0	6.0	0.5	MS300/13
16	39	7.0	9.0	7.2	0.56	MS300/16
19	42	8.0	8.5	8.3	0.61	MS300/19
23	55	8.5	12	9.4	0.8	MS300/23
28	60	11	13	12.5	1.0	MS300/28
32	65	11	13	12.5	1.0	MS300/28