



### Product Introductions

#### RSM Series Single Acting Low Weight Cylinder

- Max Working Pressure: 700 Bar
- Single acting cylinders with heavy duty return springs and are designed to be used in all orientations
- These flat cylinders will fit where other cylinders collapsed height will not enable placement
- Coated with corrosive resistant baked enamel
- Steel cylinder piston rods are hard chrome plated
- Saddles are not required due to grooved cylinder piston rod ends
- The stop ring avoids the piston rod over-reaching and enables maximum cylinder extension



### Product Sheet

Model	Capacity (Ton)	Stroke (mm)	Min Height (mm)	Outside Diameter (mm)	Effective Area (cm <sup>2</sup> )	Oil Capacity (cm <sup>3</sup> )	Saddle Diameter (mm)	Weight (Kg)
RSM50	5	6	32	59 x 42	7	4	26	1.0
RSM100	10	11	42	83 x 56	14.5	16	38	1.4
RSM200	20	11	51	100 x 75	28.2	31	50	3.1
RSM300	30	13	58	118 x 95	41.8	54	63	4.5
RSM500	50	16	66	140 x 115	63.6	101	70	6.8
RSM750	75	16	79	166 x 140	103.8	166	63	11.3
RSM1000	100	16	85	178 x 153	132.7	212	75	14.5
RSM1500	150	16	100	216 x 191	201.0	321	112	26.3

### Product Introductions

#### RCS Series Single Acting Low Weight Cylinder

- Single acting cylinders with heavy duty return springs and are designed to be used in all orientations
- Light weight, low profile design for use in confined spaces
- Coated with corrosive resistant baked enamel
- Steel cylinder piston rods are hard chrome plated with bronze plating available on request
- Saddles are not required due to grooved cylinder piston rod ends
- The stop ring avoids the piston rod over-reaching and enables maximum cylinder extension



### Product Sheet

Model	Capacity (Ton)	Stroke (mm)	Min Height (mm)	Outside Diameter (mm)	Effective Area (cm <sup>2</sup> )	Oil Capacity (cm <sup>3</sup> )	Saddle Diameter (mm)	Weight (Kg)
RSM101	10	38	88	70	14.5	55	38	4.1
RSM201	20	45	98	92	28.2	127	50	5.0
RSM302	30	61	117	102	41.8	255	65	6.8
RSM502	50	60	122	127	63.6	381	70	10.9
RSM1002	100	57	141	167	132.7	756	90	22.7
RSM1502	150	51	206	205	201.1	1025	138	42.1

### Product Introductions

#### RC Series Single Acting General Purpose Cylinder

- Max Working Pressure: 700 Bar
- Single acting cylinders with heavy duty return springs
- Durability is enhanced by using high strength alloy steel
- Coated with corrosive resistant baked enamel
- The stop ring avoids the piston rod over-reaching and enables maximum cylinder extension



### Product Sheet

Model	Capacity (Ton)	Stroke (mm)	Min Height (mm)	Outside Diameter (mm)	Effective Area (cm <sup>2</sup> )	Oil Capacity (cm <sup>3</sup> )	Saddle Diameter (mm)	Weight (Kg)	Thread Length (mm)	Thread Size
RC50	5	16	42	42 x 59	7	11	26	1.1	28	1-1/2" - 16
RC51	5	25	110	38	6.5	16	25.5	1.1	28	1-1/2" - 16
RC53	5	76	165	38	6.5	50	25.5	1.5	28	1-1/2" - 16
RC55	5	127	215	38	6.5	83	25.5	1.9	28	1-1/2" - 16
RC57	5	177	273	38	6.5	115	25.5	2.4	28	1-1/2" - 16
RC59	5	232	313	38	6.5	151	25.5	2.8	28	1-1/2" - 16
RC101	10	26	89	57	14.5	38	35	1.8	27	2-1/4" - 14
RC102	10	54	121	57	14.5	78	35	2.3	27	2-1/4" - 14
RC104	10	105	171	57	14.5	152	35	3.3	27	2-1/4" - 14
RC106	10	156	247	57	14.5	226	35	4.4	27	2-1/4" - 14
RC108	10	203	298	57	14.5	294	35	5.4	27	2-1/4" - 14
RC1010	10	257	349	57	14.5	373	35	6.4	27	2-1/4" - 14
RC1012	10	304	400	57	14.5	441	35	6.8	27	2-1/4" - 14
RC1014	10	356	450	57	14.5	516	35	8.2	27	2-1/4" - 14
RC151	15	26	124	70	19.6	49	38	3.3	30	2-3/4" - 16
RC152	15	51	149	70	19.6	100	38	4.1	30	2-3/4" - 16
RC154	15	101	200	70	19.6	198	38	5.0	30	2-3/4" - 16
RC156	15	152	271	70	19.6	298	38	6.8	30	2-3/4" - 16
RC158	15	203	322	70	19.6	398	38	8.2	30	2-3/4" - 16
RC1510A	15	254	373	70	19.6	498	38	9.5	30	2-3/4" - 16
RC1512A	15	305	423	70	19.6	598	38	10.9	30	2-3/4" - 16
RC1514A	15	356	474	70	19.6	697	38	11.8	30	2-3/4" - 16
RC251	25	26	139	85	33.2	86	50	5.9	49	3-5/16" - 12
RC252	25	50	165	85	33.2	166	50	6.4	49	3-5/16" - 12
RC254	25	102	215	85	33.2	339	50	8.2	49	3-5/16" - 12
RC256	25	158	273	85	33.2	525	50	10.0	49	3-5/16" - 12
RC258	25	210	323	85	33.2	697	50	12.2	49	3-5/16" - 12
RC2510A	25	261	374	85	33.2	867	50	14.1	49	3-5/16" - 12
RC2512A	25	311	425	85	33.2	1,033	50	16.3	49	3-5/16" - 12
RC2514	25	362	476	85	33.2	1,202	50	17.7	49	3-5/16" - 12
RC308	30	209	387	102	44.2	923	50	18.1		
RC502	50	51	176	127	70.8	361	71	15.0	55	5" - 12
RC504	50	101	227	127	70.8	715	71	19.1	55	5" - 12
RC506	50	159	282	127	70.8	1,125	71	23.1	55	5" - 12
RC5013	50	337	460	127	70.8	2,386	71	37.6	55	5" - 12
RC756	75	156	285	147	103.8	1,619	71	29.5	44	5-3/4" - 12
RC7513A	75	333	492	147	103.8	3,456	71	59.0	44	5-3/4" - 12
RC1006	100	168	357	177	132.7	2,229	71	59.0	44	5-3/4" - 12
RC10010	100	260	449	177	133.3	3,450	71	72.6	44	5-3/4" - 12

### Product Introductions

#### RCH Series Single Acting Hollow Plunger Cylinder

- Max Working Pressure: 700 Bar
- Single acting cylinders with heavy duty return springs and are designed to be used in all orientations
- Hollow rod design enables pulling and tensioning
- Coated with corrosive resistant baked enamel



### Product Sheet

Model	Capacity (Ton)	Stroke (mm)	Min Height (mm)	Outside Diameter (mm)	Effective Area (cm <sup>2</sup> )	Oil Capacity (cm <sup>3</sup> )	Plunger Diameter (mm)	Hollow Diameter (mm)	Weight (Kg)
RCH120	12	8	55	69	17.9	14	35	19	1.5
RCH121	12	42	120	69	17.9	75	35	19	2.8
RCH123	12	76	184	69	17.9	136	35	19	4.4
RCH202	20	50	162	99	30.5	152	55	26.9	7.7
RCH206	20	155	306	99	30.5	473	55	28	14.1
RCH302	30	64	179	115	47.7	305	63	34	10.9
RCH306	30	155	331	115	47.7	739	63.3	34	21.8
RCH603	60	77	248	160	84.2	648	92	53	28.1
RCH606	60	152	325	160	84.2	1,280	92	53	35.4
RCH1003	100	76	254	212	135.3	1,028	127.0	78	63.0

### Product Introductions

#### RRH Series Double Acting Hollow Plunger Cylinder

- These double acting cylinders enable fast and controlled retraction
- Over-pressurisation is prevented due to built in safety valves
- Hollow rod design enables pulling and tensioning
- Coated with corrosive resistant baked enamel



### Product Sheet

Model	Capacity (Ton)		Stroke (mm)	Min Height (mm)	Outside Diameter (mm)	Effective Area (cm <sup>2</sup> )		Oil Capacity (cm <sup>3</sup> )		Plunger Diameter (mm)	Hollow Diameter (mm)	Weight (Kg)
	Push	Pull				Push	Pull	Push	Pull			
RRH307A	34	23	178	331	115	47.7	32.4	849	576	63	34	21
RRH3010A	30	23	258	431	115	47.7	32.4	1230	836	63	34	27
RRH603A	60	42	89	248	160	84.2	56.2	749	500	95	53	28
RRH606A	60	42	165	324	160	84.2	56.2	1389	927	95	53	35
RRH6010	60	42	257	438	160	84.2	56.2	2164	1444	95	53	45
RRH1001A	100	68	38	166	212	135.2	87	513	331	127	79	33
RRH1003A	100	68	76	255	212	135.2	87	1027	661	127	78	61
RRH1006A	100	68	153	343	212	135.2	87	2068	1331	127	78	79
RRH10010A	100	68	253	443	212	135.2	87	3420	2201	127	78	106
RRH1508	150	75	200	349	247	205	106.8	4100	2136	152	78	111

### Product Introductions

#### CLS Series Single Acting High Tonnage Cylinder

- Single acting, load return
- Unique loading design enables it to bear unbalanced loads up to 5% pressure of rated load without scoring
- Overflow port functions as a stroke limiter
- Coated with corrosive resistant baked enamel
- Optional tilt saddle



### Product Sheet

Model	Capacity (Ton)	Stroke (mm)	Min Height (mm)	Outside Diameter (mm)	Effective Area (cm <sup>2</sup> )	Oil Capacity (cm <sup>3</sup> )	Saddle Diameter (mm)	Weight (Kg)
CLS502A	50	50	128	125	70.9	355	71	4
CLS504A	50	100	178	125	70.9	709	71	18
CLS506	50	150	228	125	70.9	1064	71	23
CLS508A	50	200	278	125	70.9	1418	71	28
CLS5010A	50	250	328	125	70.9	1773	71	33
CLS5012A	50	300	378	125	70.9	2127	71	38
CLS1002A	100	50	143	164	132.7	664	71	24
CLS1004	100	100	193	164	132.7	1327	71	32
CLS1006	100	150	243	164	132.7	1991	71	40
CLS1008A	100	200	293	164	132.7	2654	71	49
CLS10010	100	250	343	164	132.7	3318	71	58
CLS10012	100	300	393	164	132.7	3981	71	66
CLS1502	150	50	165	209	201	1005	130	43
CLS1504	150	100	215	209	201	2010	130	55
CLS1506	150	150	265	209	201	3015	130	69
CLS1508	150	200	315	209	201	4020	130	82
CLS15010	150	250	365	209	201	5025	130	95
CLS15012	150	300	415	209	201	6030	130	108
CLS2002	200	50	193	235	265.9	1330	130	66
CLS2006	200	150	293	235	265.9	3989	130	101
CLS20010A	200	250	393	235	265.9	6648	130	136
CLS2502	250	50	193	275	366.4	1832	150	90
CLS2506	250	150	293	275	366.4	5496	150	137
CLS25010	250	250	393	275	366.4	9160	150	184
CLS3002	300	50	235	310	456.2	2281	139	137
CLS3006	300	150	335	310	456.2	6843	139	198
CLS30010	300	250	435	310	456.2	11405	139	258
CLS4002	400	50	265	350	559.9	2800	159	200
CLS4006	400	150	365	350	559.9	8399	159	275
CLS40010	400	250	465	350	559.9	13998	159	352
CLS5002	500	50	295	400	730.6	3656	228	289
CLS5006	500	150	395	400	730.6	10967	228	390
CLS50010	500	250	495	400	730.6	18278	228	489
CLS6002	600	50	310	430	855.3	4277	194	350
CLS6006	600	150	410	430	855.3	12830	194	465
CLS60010	600	250	510	430	855.3	21383	194	582
CLS8002	800	50	355	505	1176.3	5882	224	549
CLS8006	800	150	455	505	1176.3	17645	224	709
CLS80010	800	250	555	505	1176.3	29408	224	870

### Product Introductions

#### CLL Series Single Acting Lock Nut Cylinder

- Single acting, load return
- Unique loading design enables it to bear unbalanced loads up to 5% pressure of rated load without scoring
- Safety lock nut for mechanical load holding for extended periods
- Overflow port functions as a stroke limiter
- Coated with corrosive resistant baked enamel with optional tilt saddle



### Product Sheet

Model	Capacity (Ton)	Stroke (mm)	Min Height (mm)	Outside Diameter (mm)	Effective Area (cm <sup>2</sup> )	Oil Capacity (cm <sup>3</sup> )	Saddle Diameter (mm)	Weight (Kg)
CLL502	50	50	164	125	70.9	355	71	15
CLL504	50	100	214	125	70.9	709	71	20
CLL506	50	150	264	125	70.9	1064	71	25
CLL508	50	200	314	125	70.9	1418	71	30
CLL5010	50	250	364	125	70.9	1773	71	35
CLL5012	50	300	414	125	70.9	2127	71	40
CLL1002	100	50	187	165	132.7	664	71	30
CLL1004	100	100	237	165	132.7	1327	71	39
CLL1006	100	150	287	165	132.7	1991	71	48
CLL1008	100	200	337	165	132.7	2654	71	56
CLL10010	100	250	387	165	132.7	3318	71	64
CLL10012	100	300	437	165	132.7	3981	71	73
CLL1502	150	50	209	205	201	1005	130	53
CLL1504	150	100	259	205	201	2010	130	66
CLL1506	150	150	309	205	201	3015	130	78
CLL1508	150	200	359	205	201	4020	130	92
CLL15010	150	250	409	205	201	5025	130	104
CLL15012	150	300	459	205	201	6030	130	117
CLL2002	200	50	243	235	265.6	1330	130	83
CLL2006	200	150	343	235	265.6	3989	130	117
CLL20010	200	250	443	235	265.6	6648	130	152
CLL2502	250	50	249	275	366.4	1832	150	116
CLL2506	250	150	349	275	366.4	5496	150	162
CLL25010	250	250	449	275	366.4	9160	150	210
CLL3002	300	50	295	310	456.2	2281	139	173
CLL3006	300	150	395	310	456.2	6843	139	233
CLL30010	300	250	495	310	456.2	11405	139	293
CLL4002	400	50	335	350	559.9	2800	159	250
CLL4006	400	150	435	350	559.9	8399	159	327
CLL40010	400	250	535	350	559.9	13998	159	402
CLL5002	500	50	375	400	730.6	3656	228	367
CLL5006	500	150	475	400	730.6	10967	228	466
CLL50010	500	250	575	400	730.6	18278	228	567
CLL6002	600	50	395	430	855.3	4277	194	446
CLL6006	600	150	495	430	855.3	12830	194	562
CLL60010	600	250	595	430	855.3	21383	194	679
CLL8002	800	50	455	505	1176.9	5882	224	709
CLL8006	800	150	555	505	1176.9	17645	224	870
CLL80010	800	250	655	505	1176.9	29408	224	1029

### Product Introductions

#### CLRG Series Double Acting High Tonnage Cylinder

- Double acting cylinders enable quick retraction and are designed to be used in all orientations
- Build in safety valve helps to prevent accidental over pressurization
- Overflow port functions as a stroke limiter
- Hydraulic lock can be installed
- Coated with corrosive resistant baked enamel
- Optional tilt saddle



### Product Sheet

Model	Capacity (Ton)		Stroke (mm)	Min Height (mm)	Outside Diameter (mm)	Effective Area (cm <sup>2</sup> )		Oil Capacity (cm <sup>3</sup> )		Weight (Kg)	Saddle Diameter (mm)
	Push	Pull				Push	Pull	Push	Pull		
CLRG1010	10	4.1	254	409	76	14.5	5.9	368	149	12	33
CLRG1012	10	4.1	305	457	76	14.5	5.9	442	180	14	33
CLRG506	50	22.6	150	325	127	70.8	32.3	1062	484	30	70
CLRG5012	50	22.6	300	475	127	70.8	32.3	2124	969	52	70
CLRG1002	100	44	50	182	188	132.7	61.9	664	310	27	95
CLRG1004	100	44	100	232	188	132.7	61.9	1327	619	33	95
CLRG1006	100	44	150	282	188	132.7	61.9	1991	929	37	95
CLRG1008	100	44	200	332	188	132.7	61.9	2654	1238	44	95
CLRG10010	100	44	250	382	188	132.7	61.9	3318	1548	50	95
CLRG10012	100	44	300	432	188	132.7	61.9	3981	1857	57	95
CLRG1502	150	67.9	50	196	216	201	97	1005	485	47	115
CLRG1504	150	67.9	100	246	216	201	97	2010	970	57	115
CLRG1506	150	67.9	150	296	216	201	97	3015	1455	67	115
CLRG1508	150	67.9	200	346	216	201	97	4020	1940	77	115
CLRG15010	150	67.9	250	396	216	201	97	5025	2425	87	115
CLRG15012	150	67.9	300	446	216	201	97	6030	2910	97	115
CLRG2002	200	93	50	235	242	265.9	133.1	1329	665	67	130
CLRG2006	200	93	150	335	242	265.9	133.1	3988	1996	92	130
CLRG20010	200	93	250	435	242	265.9	133.1	6647	3327	117	130
CLRG2502	250	107	50	236	288	366.4	152.6	1832	763	105	165
CLRG2506	250	107	150	336	288	366.4	152.6	5496	2289	141	165
CLRG25010	250	107	250	436	288	366.4	152.6	9160	3815	176	165
CLRG3002	300	121	50	350	325	456.2	172.6	2281	863	204	190
CLRG3006	300	121	150	412	325	456.2	172.6	6843	2589	252	190
CLRG30010	300	121	250	512	325	456.2	172.6	11405	4315	299	190
CLRG4002	400	138	50	370	367	559.9	196.8	2799	984	281	215
CLRG4006	400	138	150	470	367	559.9	196.8	8399	2952	342	215
CLRG40010	400	138	250	570	367	559.9	196.8	13998	4920	405	215
CLRG5002	500	168	50	400	405	730.6	239.7	3653	1198	411	250
CLRG5006	500	168	150	500	405	730.6	239.7	10959	3595	493	250
CLRG50010	500	168	250	600	405	730.6	239.7	18265	5992	575	250
CLRG6002	600	207	50	445	450	855.3	295.4	4277	1477	494	267
CLRG6006	600	207	150	545	450	855.3	295.4	12830	4431	586	267
CLRG60010	600	207	250	645	450	855.3	295.4	21383	7385	678	267
CLRG8002	800	252	50	495	515	1164	360	5820	1800	759	320
CLRG8006	800	252	150	595	515	1164	360	17460	5400	885	320
CLRG80010	800	252	250	695	515	1164	360	29100	9000	1019	320



### Product Introductions

#### CLP Series Single Acting Pancake Lock Nut Cylinder

- Single acting, load return
- Special bearing design withstand side load forces up to 3% of rated cylinder capacity
- Safety lock nut for mechanical load holding for extended periods
- Build in safety valve helps to prevent accidental over pressurization
- Flat design for use in confined area
- Coated with corrosive resistant baked enamel



### Product Sheet

Model	Capacity (Ton)	Stroke (mm)	Min Height (mm)	Outside Diameter (mm)	Effective Area (cm <sup>2</sup> )	Oil Capacity (cm <sup>3</sup> )	Saddle Diameter (mm)	Weight (Kg)
CLP602	60	50	125	140	86.6	432	96	15
CLP1002	100	50	137	175	143.1	716	126	26
CLP1602	160	45	148	220	227	1022	160	44
CLP2002	200	45	155	245	283.5	1276	180	57
CLP2502	260	45	159	275	366.4	1649	200	74
CLP4002	400	45	178	350	559.9	2519	250	134
CLP5002	520	45	192	400	730.6	3287	290	189

### Product Introductions

#### SMC Series Mechanical Cylinder

- Light, thin, short and small version for easy carrying and designed for use in all positions
- Flat design for using in confined areas where standard cylinders will not fit
- Rising and retracting height can do spinner control precisely and its accuracy is up to 0.01mm
- Made in high strength alloy steel to extend strength and life
- Integral screw-rod design



### Product Sheet

Model	Capacity (Ton)	Stroke (mm)	Effective Area (mm <sup>2</sup> )	Coll. Height (mm)	Ext. Height (mm)	Outside Diameter (mm)	Max Length (mm)	Min Length (mm)	Weight (Kg)
SMC0525	5	25	8.02	52	77	52	279	199	1.5
SMC1025	10	25	13.85	54	79	62	351	240	2.2
SMC2005	20	5	28.27	35	40	84	295	224	1.9
SMC3005	30	5	38.49	36	41	95	323	243	2.3
SMC5005	50	5	66.48	40	45	120	410	299	3.7