

RC Series

Single-Acting General Purpose Cylinder

Featuring

- Single-acting and heavy-duty return spring
- High strength alloy steel for durability
- Baked enamel finish for the improved corrosion resistance
- Easy-carry handle for maximal portability

Specifications

- Capacity: 5-100 Ton
- Stroke: 16-362mm
- Maximum operating pressure: 700bar



Ordering Information

Capacity (Ton)	Stroke (mm)	Model No.	Min Height (mm)	Outside Diameter (mm)	Effective Area (cm ²)	Oil Capacity (cm ³)	Saddle diameter (mm)	Thread Size	Thread Length (mm)	N.W (kg)
5	16	RC50	42	42×59	7	11	26	1 1/2"-16	28	1.1
5	25	RC51	110	38	6.5	16	25.5	1 1/2"-16	28	1.1
5	76	RC53	165	38	6.5	50	25.5	1 1/2"-16	28	1.5
5	127	RC55	215	38	6.5	83	25.5	1 1/2"-16	28	1.9
5	177	RC57	273	38	6.5	115	25.5	1 1/2"-16	28	2.4
5	232	RC59	323	38	6.5	151	25.5	1 1/2"-16	28	2.8
10	26	RC101	89	57	14.5	38	35	2 1/4"-14	27	1.8
10	54	RC102	121	57	14.5	78	35	2 1/4"-14	27	2.3
10	105	RC104	171	57	14.5	152	35	2 1/4"-14	27	3.3
10	156	RC106	247	57	14.5	226	35	2 1/4"-14	27	4.4
10	203	RC108	298	57	14.5	294	35	2 1/4"-14	27	5.4
10	257	RC1010	349	57	14.5	373	35	2 1/4"-14	27	6.4
10	304	RC1012	400	57	14.5	441	35	2 1/4"-14	27	6.8
10	356	RC1014	450	57	14.5	516	35	2 1/4"-14	27	8.2
15	25	RC151	124	70	19.6	49	38	2 3/4"-16	30	3.3
15	51	RC152	149	70	19.6	100	38	2 3/4"-16	30	4.1
15	101	RC154	200	70	19.6	198	38	2 3/4"-16	30	5.0
15	152	RC156	271	70	19.6	298	38	2 3/4"-16	30	6.8
15	203	RC158	322	70	19.6	398	38	2 3/4"-16	30	8.2
15	254	RC1510A	373	70	19.6	498	38	2 3/4"-16	30	9.5
15	305	RC1512A	423	70	19.6	598	38	2 3/4"-16	30	10.9
15	356	RC1514A	474	70	19.6	697	38	2 3/4"-16	30	11.8
25	26	RC251	139	85	33.2	86	50	3 5/16"-12	49	5.9
25	50	RC252	165	85	33.2	166	50	3 5/16"-12	49	6.4
25	102	RC254	215	85	33.2	339	50	3 5/16"-12	49	8.2
25	158	RC256	273	85	33.2	525	50	3 5/16"-12	49	10.0
25	210	RC258	323	85	33.2	697	50	3 5/16"-12	49	12.2
25	261	RC2510A	374	85	33.2	867	50	3 5/16"-12	49	14.1
25	311	RC2512A	425	85	33.2	1033	50	3 5/16"-12	49	16.3
25	362	RC2514	476	85	33.2	1202	50	3 5/16"-12	49	17.7
30	209	RC308	387	102	44.2	923	50			18.1
50	51	RC502	176	127	70.8	361	71	5"-12	55	15.0
50	101	RC504	227	127	70.8	715	71	5"-12	55	19.1
50	159	RC506	282	127	70.8	1125	71	5"-12	55	23.1
50	337	RC5013	460	127	70.8	2386	71	5"-12	55	37.6
75	156	RC756	285	147	103.8	1619	71	5 3/4"-12	44	29.5
75	333	RC7513A	492	147	103.8	3456	71	5 3/4"-12	44	59.0
100	168	RC1006	357	177	132.7	2229	71	5 3/4"-12	44	59.0
100	260	RC10010	449	177	133.3	3450	71	5 3/4"-12	44	72.6

RCH Series

Single-Acting Hollow Plunger Cylinder

Featuring

- Single-acting and heavy-duty return spring
- Hollow plunger design allows for both pull and push forces
- Baked enamel finish for the improved corrosion resistance

Specifications

- Capacity: 12-100 Ton
- Stroke: 8-155mm
- Maximum operating pressure: 700bar



Ordering Information

Capacity (Ton)	Stroke (mm)	Model No.	Min Height (mm)	Outside Diameter (mm)	Effective Area(cm ²)	Oil Capacity (cm ³)	Plunger diameter (mm)	Hollow Diameter (mm)	N.W (kg)
12	8	RCH120	55	69	17.9	14	35	19	1.5
12	42	RCH121	120	69	17.9	75	35	19	2.8
12	76	RCH123	184	69	17.9	136	35	19	4.4
20	50	RCH202	162	99	30.5	152	55	26.9	7.7
20	155	RCH206	306	99	30.5	473	55	28	14.1
30	64	RCH302	179	115	47.7	305	63	34	10.9
30	155	RCH306	331	115	47.7	739	63.5	34	21.8
60	77	RCH603	248	160	84.2	648	92	53	28.1
60	152	RCH606	325	160	84.2	1280	92	53	35.4
100	76	RCH1003	254	212	135.3	1028	127.0	78	63.0

CLP series

Single-Acting Pancake Lock Nut Cylinder

Product Description

- Single acting and load return
- Special bearing design with stands side load forces up to 3% of rated cylinder capacity
- Flat design for using in confined area
- Lock-nut feature for positive and safe load holding over a long period of time
- Built-in safety valve helps to prevent accidental over-pressurization



Specifications

- Capacity: 60-520 Ton
- Stroke: 45-50mm
- Maximum operating pressure: 700bar

Ordering Information

Capacity (Ton)	Stroke (mm)	Model No.	Min Height (mm)	Outside Diameter (mm)	Effective Area(cm ²)	Oil Capacity (cm ³)	Saddle diameter (mm)	N.W (kg)
60	50	CLP602	125	140	86.6	432	96	15
100	50	CLP1002	137	175	143.1	716	126	26
160	45	CLP1602	148	220	227	1022	160	44
200	45	CLP2002	155	245	283.5	1276	180	57
260	45	CLP2502	159	275	366.4	1649	200	74
400	45	CLP4002	178	350	559.9	2519	250	134
520	45	CLP5002	192	400	730.6	3287	290	189

Hydraulic Torque Wrench and Tools

CLS Series

Single-Acting High Tonnage Cylinder

Product Description

- Cylinder can withstand over 5% pressure of rated load without scoring
- Optional tilt saddle
- Overflow port functions as a stroke limiter
- Single acting load return
- Baked enamel finish for the improved corrosion resistance
- Maximum operating pressure: 700bar
- Capacity: 50-1000 Ton
- Stroke: 50-300mm



Ordering Information

Capacity (Ton)	Stroke (mm)	Model No.	Min Height (mm)	Outside Diameter (mm)	Effective Area (cm ²)	Oil Capacity (cm ³)	Saddle diameter (mm)	N.W (kg)
50	50	CLS502A	128	125	70.9	355	71	4
50	100	CLS504A	178	125	70.9	709	71	18
50	150	CLS506	228	125	70.9	1064	71	23
50	200	CLS508A	278	125	70.9	1418	71	28
50	250	CLS5010A	328	125	70.9	1773	71	33
50	300	CLS5012A	378	125	70.9	2127	71	38
100	50	CLS1002A	143	164	132.7	664	71	24
100	100	CLS1004	193	164	132.7	1327	71	32
100	150	CLS1006	243	164	132.7	1991	71	40
100	200	CLS1008A	293	164	132.7	2654	71	49
100	250	CLS10010	343	164	132.7	3318	71	58
100	300	CLS10012	393	164	132.7	3981	71	66
150	50	CLS1502	165	209	201	1005	130	43
150	100	CLS1504	215	209	201	2010	130	55
150	150	CLS1506	265	209	201	3015	130	69
150	200	CLS1508	315	209	201	4020	130	82
150	250	CLS15010	365	209	201	5025	130	95
150	300	CLS15012	415	209	201	6030	130	108
200	50	CLS2002	193	235	265.9	1330	130	66
200	150	CLS2006	293	235	265.9	3989	130	101
200	250	CLS20010A	393	235	265.9	6648	130	136
250	50	CLS2502	193	275	366.4	1832	150	90
250	150	CLS2506	293	275	366.4	5496	150	137
250	250	CLS25010	393	275	366.4	9160	150	184
300	50	CLS3002	235	310	456.2	2281	139	137
300	150	CLS3006	335	310	456.2	6843	139	198
300	250	CLS30010	435	310	456.2	11405	139	258
400	50	CLS4002	265	350	559.9	2800	159	200
400	150	CLS4006	365	350	559.9	8399	159	275
400	250	CLS40010	465	350	559.9	13998	159	352
500	50	CLS5002	295	400	730.6	3656	228	289
500	150	CLS5006	395	400	730.6	10967	228	390
500	250	CLS50010	495	400	730.6	18278	228	489
600	50	CLS6002	310	430	855.3	4277	194	350
600	150	CLS6006	410	430	855.3	12830	194	465
600	250	CLS60010	510	430	855.3	21383	194	582
800	50	CLS8002	355	505	1176.3	5882	224	549
800	150	CLS8006	455	505	1176.3	17645	224	709
800	250	CLS80010	555	505	1176.3	29408	224	870
1000	50	CLS10002	385	560	1465.7	7329	360	729
1000	150	CLS10006	485	560	1465.7	21986	360	921
1000	250	CLS100010	585	560	1465.7	36643	360	1113

CLL Series

Single-Acting Lock Nut Cylinder

Product Description

- Optional tilt saddle
- Cylinder can withstand over 5% pressure of rated load without scoring
- Safety lock nut for mechanical load holding for long time
- Overflow port functions as a stroke limiter
- Baked enamel finish for the improved corrosion resistance
- Single acting load return
- Maximum operating pressure: 700bar
- Capacity: 50-1000 Ton
- Stroke: 50-300mm



Ordering Information

Capacity (Ton)	Stroke (mm)	Model No.	Min Height (mm)	Outside Diameter (mm)	Effective Area (cm ²)	Oil Capacity (cm ³)	Saddle diameter (mm)	N.W (kg)
50	50	CLL502	164	125	70.9	355	71	15
50	100	CLL504	214	125	70.9	709	71	20
50	150	CLL506	264	125	70.9	1064	71	25
50	200	CLL508	314	125	70.9	1418	71	30
50	250	CLL5010	364	125	70.9	1773	71	35
50	300	CLL5012	414	125	70.9	2127	71	40
100	50	CLL1002	187	165	132.7	664	71	30
100	100	CLL1004	237	165	132.7	1327	71	39
100	150	CLL1006	287	165	132.7	1991	71	48
100	200	CLL1008	337	165	132.7	2654	71	56
100	250	CLL10010	387	165	132.7	3318	71	64
100	300	CLL10012	437	165	132.7	3981	71	73
150	50	CLL1502	209	205	201	1005	130	53
150	100	CLL1504	259	205	201	2010	130	66
150	150	CLL1506	309	205	201	3015	130	78
150	200	CLL1508	359	205	201	4020	130	92
150	250	CLL15010	409	205	201	5025	130	104
150	300	CLL15012	459	205	201	6030	130	117
200	50	CLL2002	243	235	265.6	1330	130	83
200	150	CLL2006	343	235	265.6	3989	130	117
200	250	CLL20010	443	235	265.6	6648	130	152
250	50	CLL2502	249	275	366.4	1832	150	116
250	150	CLL2506	349	275	366.4	5496	150	162
250	250	CLL25010	449	275	366.4	9160	150	210
300	50	CLL3002	295	310	456.2	2281	139	173
300	150	CLL3006	395	310	456.2	6843	139	233
300	250	CLL30010	495	310	456.2	11405	139	293
400	50	CLL4002	335	350	559.9	2800	159	250
400	150	CLL4006	435	350	559.9	8399	159	327
400	250	CLL40010	535	350	559.9	13998	159	402
500	50	CLL5002	375	400	730.6	3656	228	367
500	150	CLL5006	475	400	730.6	10967	228	466
500	250	CLL50010	575	400	730.6	18278	228	567
600	50	CLL6002	395	430	855.3	4277	194	446
600	150	CLL6006	495	430	855.3	12830	194	562
600	250	CLL60010	595	430	855.3	21383	194	679
800	50	CLL8002	455	505	1176.9	5882	224	709
800	150	CLL8006	555	505	1176.9	17645	224	870
800	250	CLL80010	655	505	1176.9	29408	224	1029
1000	50	CLL10002	495	560	1466.4	7329	260	949
1000	150	CLL10006	595	560	1466.4	21986	360	1141
1000	250	CLL100010	695	560	1466.4	36643	360	1333

RSM Series

Single-Acting Low Weight Cylinder



Product Description

- Single-acting and heavy-duty return spring
- Baked enamel finish for the improved corrosion resistance
- Flat design for using in confined area

Specifications

- Capacity: 5-150 Ton
- Stroke: 6-16mm
- Maximum operating pressure: 700bar

Ordering Information

Capacity (Ton)	Stroke (mm)	Model No.	Min Height (mm)	Outside Diameter (mm)	Effective Area(cm ²)	Oil Capacity (cm ³)	Saddle diameter (mm)	N.W (kg)
5	6	RSM50	32	59×42	7	4	26	1.0
10	11	RSM100	42	83×56	14.5	16	38	1.4
20	11	RSM200	51	100×75	28.2	31	50	3.1
30	13	RSM300	58	118×95	41.8	54	63	4.5
50	16	RSM500	66	140×115	63.6	101	70	6.8
75	16	RSM750	79	166×140	103.8	166	63	11.3
100	16	RSM1000	85	178×153	132.7	212	75	14.5
150	16	RSM1500	100	216×191	201	321	112	26.3

RCS Series

Single-Acting Low Weight Cylinder

Product Description

- Baked enamel finish for the improved corrosion resistance
- Single-acting and heavy-duty return spring
- Flat design for using in confined area
- Maximum operating pressure: 700bar
- Capacity: 10-150 Ton
- Stroke: 38-62mm



Ordering Information

Capacity (Ton)	Stroke (mm)	Model No.	Min Height (mm)	Outside Diameter (mm)	Effective Area(cm ²)	Oil Capacity (cm ³)	Saddle diameter (mm)	N.W (kg)
10	38	RCS101	88	70	14.5	55	38	4.1
20	45	RCS201	98	92	28.2	127	50	5.0
30	61	RCS302	117	102	41.8	255	65	6.8
50	60	RCS502	122	127	63.6	381	70	10.9
100	57	RCS1002	141	167	132.7	756	90	22.7
150	51	RCS1502	206	205	201.1	1025	138	42.1

Product Description

- Light, thin, short and small version for easy carrying and designed for use in all positions
- Made in high strength alloy steel to extend strength and life
- Integral screw-rod designed hydraulic configuration without extra oil pumps and hoses
- Flat design for using in confined area where standard cylinders will not fit.
- Rising and retracting height can do spinner control precisely and it's accuracy is up to 0.01mm
- Maximum operating pressure: 700bar
- Capacity: 5-50 Ton
- Stroke: 5-25mm

SMC Series

Mechanical Cylinder



Ordering Information

Capacity (Ton)	Stroke (mm)	Model No.	Effective Area(cm ²)	Coll. Height (mm)	Ext. Height (mm)	Outside Diameter (mm)	Max Length (mm)	Min Length (mm)	N.W (kg)
5	25	SMC0525	8.02	52	77	52	279	199	1.5
10	25	SMC1025	13.85	54	79	62	351	240	2.2
20	5	SMC2005	28.27	35	40	84	295	224	1.9
30	5	SMC3005	38.49	36	41	95	323	243	2.3
50	5	SMC5005	66.48	40	45	120	410	299	3.7

Hydraulic Torque Wrench and Tools

CLRG Series

Double-Acting High Tonnage Cylinder

Product Description

- Optional tilt saddle
- Built-in safety valve helps to prevent accidental over-pressurization
- Double-acting for positive retraction
- Overflow port functions as a stroke limiter
- Hydraulic lock can be installed
- Maximum operating pressure: 700bar
- Capacity: 10-1000 Ton
- Stroke: 50-305mm



Ordering Information

Capacity (Ton)		Stroke (mm)	Model No.	Min Height (mm)	Outside Diameter (mm)	Effective Area (cm ²)		Oil Capacity (cm ³)		Saddle diameter (mm)	N.W (kg)
Push	Pull					Push	Pull	Push	Pull		
10	4.1	254	CLRG1010	409	76	14.5	5.9	368	149	33	12
10	4.1	305	CLRG1012	457	76	14.5	5.9	442	180	33	14
50	22.6	150	CLRG5006	325	127	70.8	32.3	1062	484	70	30
50	22.6	300	CLRG5012	475	127	70.8	32.3	2124	969	70	52
100	44	50	CLRG1002	182	188	132.7	61.9	664	310	95	27
100	44	100	CLRG1004	232	188	132.7	61.9	1327	619	95	33
100	44	150	CLRG1006	282	188	132.7	61.9	1991	929	95	37
100	44	200	CLRG1008	332	188	132.7	61.9	2654	1238	95	44
100	44	250	CLRG10010	382	188	132.7	61.9	3318	1548	95	50
100	44	300	CLRG10012	432	188	132.7	61.9	3981	1857	95	57
150	67.9	50	CLRG1502	196	216	201	97	1005	485	115	47
150	67.9	100	CLRG1504	246	216	201	97	2010	970	115	57
150	67.9	150	CLRG1506	296	216	201	97	3015	1455	115	67
150	67.9	200	CLRG1508	346	216	201	97	4020	1940	115	77
150	67.9	250	CLRG15010	396	216	201	97	5025	2425	115	87
150	67.9	300	CLRG15012	446	216	201	97	6030	2910	115	97
200	93	50	CLRG2002	235	242	265.9	133.1	1329	665	130	67
200	93	150	CLRG2006	335	242	265.9	133.1	3988	1996	130	92
200	93	250	CLRG20010	435	242	265.9	133.1	6647	3327	130	117
250	107	50	CLRG2502	236	288	366.4	152.6	1832	763	165	105
250	107	150	CLRG2506	336	288	366.4	152.6	5496	2289	165	141
250	107	250	CLRG25010	436	288	366.4	152.6	9160	3815	165	176
300	121	50	CLRG3002	350	325	456.2	172.6	2281	863	190	204
300	121	150	CLRG3006	412	325	456.2	172.6	6843	2589	190	252
300	121	250	CLRG30010	512	325	456.2	172.6	11405	4315	190	299
400	138	50	CLRG4002	370	367	559.9	196.8	2799	984	215	281
400	138	150	CLRG4006	470	367	559.9	196.8	8399	2952	215	342
400	138	250	CLRG40010	570	367	559.9	196.8	13998	4920	215	405
500	168	50	CLRG5002	400	405	730.6	239.7	3653	1198	250	411
500	168	150	CLRG5006	500	405	730.6	239.7	10959	3595	250	493
500	168	250	CLRG50010	600	405	730.6	239.7	18265	5992	250	575
600	207	50	CLRG6002	445	450	855.3	295.4	4277	1477	267	494
600	207	150	CLRG6006	545	450	855.3	295.4	12830	4431	267	586
600	207	250	CLRG60010	645	450	855.3	295.4	21383	7385	267	678
800	252	50	CLRG8002	695	515	1164	360	5820	1800	320	759
800	252	150	CLRG8006	595	515	1164	360	17460	5400	320	885
800	252	250	CLRG80010	695	515	1164	360	29100	9000	320	1019
1000	380	50	CLRG10002	535	580	1465.7	541.7	7328	2708	342	1012
1000	380	150	CLRG10006	635	580	1465.7	541.7	21985	8125	342	1168
1000	380	250	CLRG100010	735	580	1465.7	541.7	36418	13543	342	1325

RRH Series

Double-Acting Hollow Plunger Cylinder

Featuring

- Hollow plunger design allows for both pull and push forces
- Double-acting design for fast retraction
- Relief valve protect cylinder damage in case of over-pressurization
- Baked enamel finish for the improved corrosion resistance

Specifications

- Capacity: 30-150 Ton
- Stroke: 38-258mm
- Maximum operating pressure: 700bar



Ordering Information

Capacity (Ton)		Stroke (mm)	Model No.	Min Height (mm)	Outside Diameter (mm)	Effective Area (cm ²)		Oil Capacity (cm ³)		Plunger diameter (mm)	Hollow Diameter (mm)	N.W (kg)
Push	Pull					Push	Pull	Push	Pull			
34	23	178	RRH307A	331	115	47.7	32.4	849	576	63	34	21
30	23	258	RRH3010A	431	115	47.7	32.4	1230	836	63	34	27
60	42	89	RRH603A	248	160	84.2	56.2	749	500	95	53	28
60	42	165	RRH606A	324	160	84.2	56.2	1389	927	95	53	35
60	42	257	RRH6010	438	160	84.2	56.2	2164	1444	95	53	45
100	68	38	RRH1001A	166	212	135.2	87.1	513	331	127	79	33
100	68	76	RRH1003A	255	212	135.2	87	1027	661	127	78	61
100	68	153	RRH1006A	343	212	135.2	87	2068	1331	127	78	79
100	68	253	RRH10010A	443	212	135.2	87	3420	2201	127	78	106
150	75	200	RRH1508	349	247	205	106.8	4100	2136	152	78	111