

# 液壓工具

Hydraulic Tool

by MOEDINGEN



# 选择我们的 4大核心理由： Four Core Reasons You Choose us：



**A: 提供高品质产品**  
High Quality Products

**B: 高素质服务团队**  
High Quality Service Team

**C: 有优势价格定位**  
Competitive Pricing

**D: 快速的供货系统**  
Fast Supply System



## 关于我们：

杭州耐准精密机械有限公司是一家专业从事液压工具研发、制造的企业。自成立以来拟定目标，严谨设计、开发、制造与加强售后服务等工作，一切按照ISO9001国际质量管理体系标准生产，我们的团队有一流设计师监控，研发新款，合乎各国国家标准，产品已赢得用户最佳评语。本公司主要生产液压扭矩扳手、液压扭矩扳手专用泵、液压拉伸器、扭力倍增器等液压工具。本公司产品设备齐全，工艺先进，技术力量雄厚，价格与市场接轨，售后服务周到。科学的管理理念、高素质的员工队伍、完善的测试手段是本公司产品质量的保证，本公司一贯秉承“专业制造、不断创新、质量第一、信誉至上”的宗旨，以诚恳踏实的态度与国外客户建立起互信的基础，构架起良好的市场通道，竭诚欢迎中外客商和社会各界人士莅临指导洽谈业务。

## about us:

Hangzhou Durable-Precision Mechanism Company Limited is a professional engaged in hydraulic torque wrench, hydraulic torque wrench special pump, hydraulic tensile, torque multipliers and other hydraulic tools R & D, production and leasing of manufacturers, mounting and dismantling focus on large bolts and nuts. Our company is the one than specialize in researching and developing hydraulic capacity, advanced equipment, experienced staff and excellent techniques, We are capable of providing a complete range of products with high quality and competitive price. In addition, all of our products are up to the international standard(ISO 9001). We have received a good reputation both at home and abroad. Our products have been well sold to more than 30countries, such as Japan, America, Australia, Italy, and the middle east. If you are interested in any of our products, please feel free to contact us. We are sincerely looking forward to cooperating with all customers to create an even brighter future.



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## MDW 驱动型液压扭矩扳手

- 最大工作压力700bar。
- 360度旋转调整反力臂。
- 卡扣式反力臂,更换简易。
- 360×180度出入油口万向旋转。
- 按钮式放松驱动轴, 更换简易。
- 单向棘轮可确保无需手持和其他工具的操作。
- 采用高科技航空材质,铝钛合金及高强度合金钢制造。
- 反锁开关。
- 特殊防锈表面处理。
- 最小操作半径。
- 防止倒退设计, 可吸收反弹冲击装置。
- 油压超压释放安全装置。
- 扭力精度: ±3%, 重复精度: 100%。

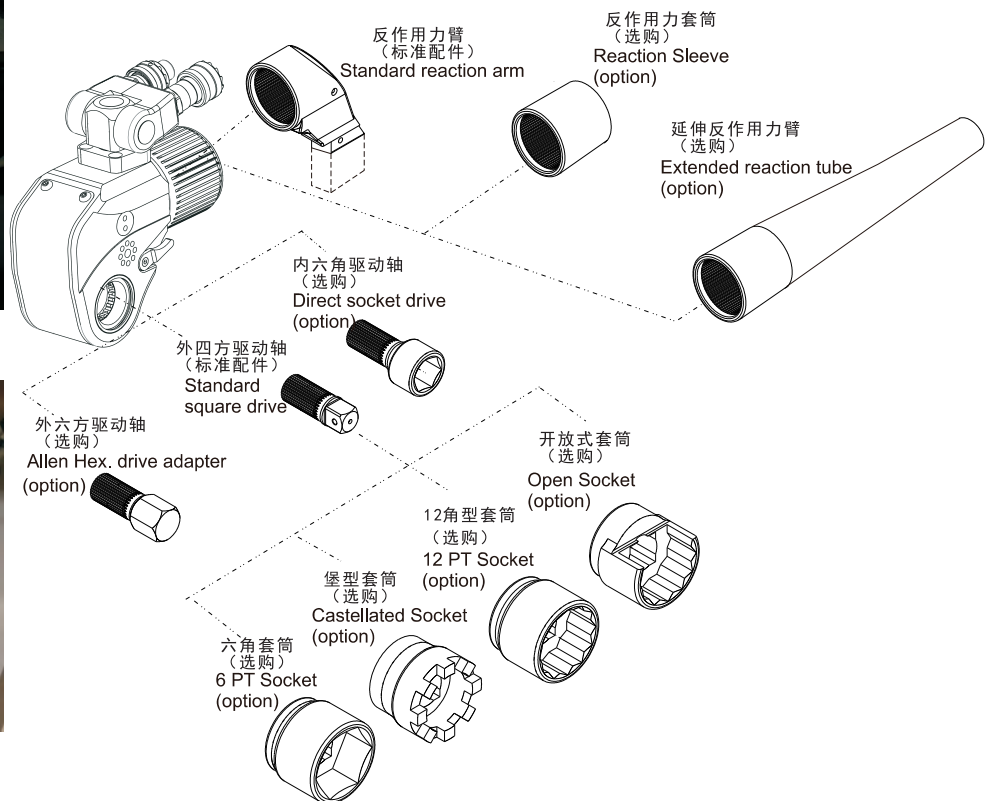


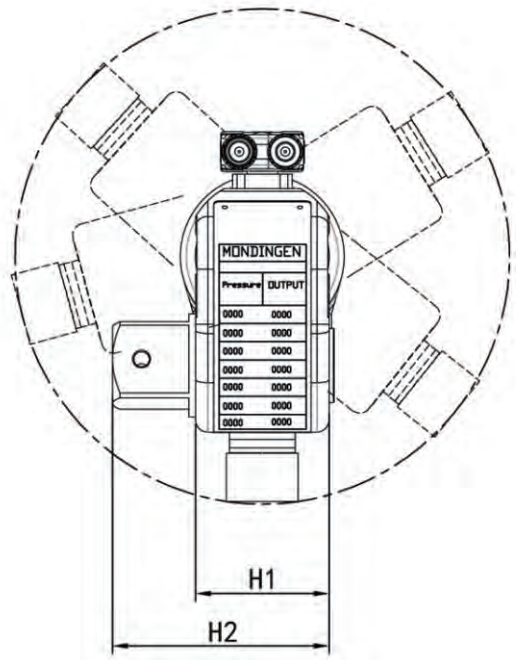
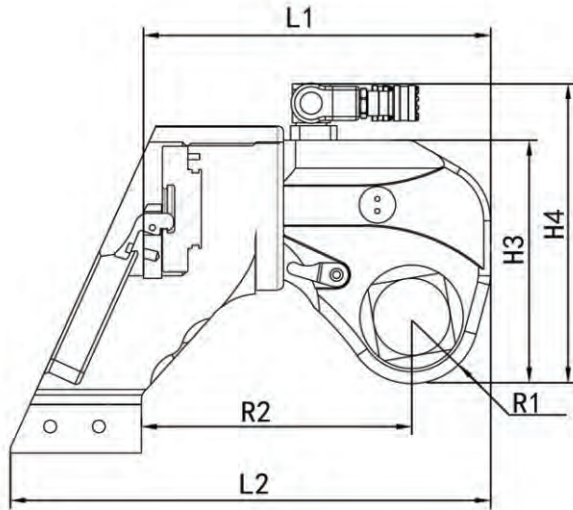
钢制护套  
steel boot

按钮式快速替换方形驱动轴  
Button change square driver

### Square Drive Wrenches Lightweight High Power Wrench for Sockets or Allen-key

- ※ 700 bar maximum working pressure.
  - ※ 360 degree Reaction Arm-Easy to working in any position.
  - ※ Click-on Reaction Arm-Easy to change Reaction Arm.
  - ※ 360 X 180 degree Swivel-Hose-free operation.
  - ※ Push-button drive release-Quick change drive side.
  - ※ One-way Ratchet-the only way to assure hands-free and multi-tool operation.
  - ※ Aviation material Body housing-Aluminum-Titanium alloy and high strength steel.
  - ※ Anti-Lock Switch
  - ※ Anti-Rust Finish-Special surface treatment.
  - ※ Small Operating Radius.
  - ※ Anti-Back Lash Mechanism.
  - ※ "Drop Hole" will protect over pressure operating.
- Torquet Accuracy: ±3%  
Repeatability: 100%





型号 Model	MDW-07	MDW-1	MDW-3	MDW-5	MDW-8	MDW-10	MDW-15	MDW-20	MDW-25	MDW-35	MDW-50
扭矩范围N.m Torque	112-1120	183-1837	451-4512	752-7528	1078-10780	1551-15516	2063-20627	2666-26664	3472-34725	4866-48666	7200-72000
螺栓规格M Bolt size	14-30	16-36	22-48	27-56	30-64	36-72	39-80	42-90	48-100	64-120	72-125
重量Kg Weight	1.8	2	4	7	9.1	13.1	21	25	31	45	87
L1	110.8	133.5	169	202.5	216	237.5	285	299.5	313	361.5	400
L2	139.3	185.5	242	271	309	340.5	395	466.5	461	496.5	516
H1	42	50	68	80	90	100	110	120	137	153	160
H2	65.8	72	95	123	134	142	178	183	200	216	223
H3	76.2	95.5	127	149	167	182	200	220	247	282	291
H4	108.1	131	176.5	199	216.5	231.5	250	269.5	296.5	331.5	341
R1	20.5	26	34	39	47	51	55	59	66	77	81
R2	68.3	99	134	137	171	174	222	250.5	250.5	271	259
驱动轴 Square drive	3/4"	3/4"	1"	1-1/2"	1-1/2"	1-1/2"	2-1/2"	2-1/2"	2-1/2"	2-1/2"	2-1/2"



反作用力臂细齿定位  
Reaction arm small tooth orientation



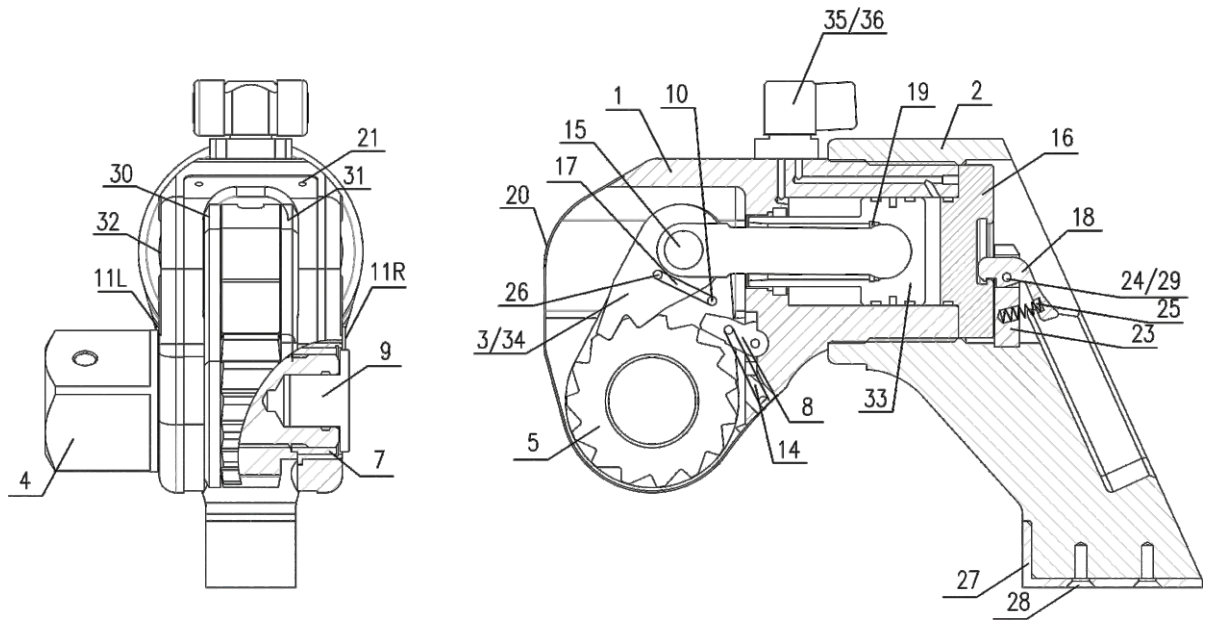
定位钩子  
Fixed Button



棘轮细齿传动  
Small tooth driver







号码	品名
1	本体
2	反作用力臂
3	驱动装置
4	四方驱动轴
5	棘轮
7	自由花键套
8	止退棘爪
9	锁紧器
10	驱动板弹性销
11	左右复位扳机
11L	左复位扳机
11R	右复位扳机
14	止退棘爪拉簧
15	销轴
16	缸盖
17	棘爪拉簧
18	反作用力臂定位钩
20	盖板
21	盖板螺栓
23	反作用力臂定位块
24	定位块螺栓
25	反作用力臂压簧
26	棘爪弹性销
27	反作用力臂护套
28	护套螺栓
29	定位销
30	左驱动板
31	右驱动板
32	本体螺钉
33	活塞组件
34	棘爪
35	旋转体组件
36	旋转体密封组

Item	Product
1	Housing assembly
2	Reaction Arm Assembly
3	Drive Plate Universal
4	Square Drive Spline
5	Ratchet Spline
7	Drive Sleeve Spline
8	Reaction Pawl
9	Drive Retainer Assembly
10	Drive Plate Roll Pin
11	Left & Right Button Assembly
11L	Button Lever Assembly
11R	Button Lever Assembly
14	Reaction Pawl Spring
15	Rod End Pin
16	End Cap
17	Drive Pawl Spring
18	Reaction Arm Lever
20	Shroud
21	Shroud Screw
23	Reaction Arm Thrust Plate
24	Thrust Plate Screws
25	Reaction Arm Lever Spring
26	Roll Pin Drive Pawl
27	Reaction Arm Boot
28	Boot Screws
29	Pin Reaction Arm Lever
30	Serial Plate Left
31	Serial Plate Right
32	Access Plug
33	Piston Rod Assembly
34	Drive Pawl Assembly Kit
35	Uniswivel Assembly
36	Uniswivel Seal Kit

## MHW 中空型液压扭矩扳手

- 机身可作为反作用力臂。
- 360°×180°出入油口万向旋转。
- 钢制连接插销，简易更换工作头。
- 机体强力合金钢制造，表面防锈处理。
- 内有特殊耐磨铜套，防止磨损卡死。
- 油压超压释放安全装置。
- 输出精度：±3%，重复精度：100%。

### Double-Acting, Hexagon Cassette Wrenches Lightweight, Low Profile & Slim Nose Radius

- ※ Tool body can be Reaction Arm, easy to work.
- ※ 360° x 180° swivel allow movement of duplex hose.
- ※ Steel alignment pins connect lower reaction area for added strength.
- ※ High strength Alloy steel body, Rust-resistant Finish.
- ※ Bronze bushing anti galling.
- ※ "Drop Hole" will protect over pressure operating.

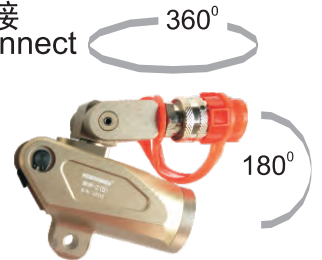
Output Accuracy : +/-3% Repeatability : 100%



单插销连接  
One plug to connect

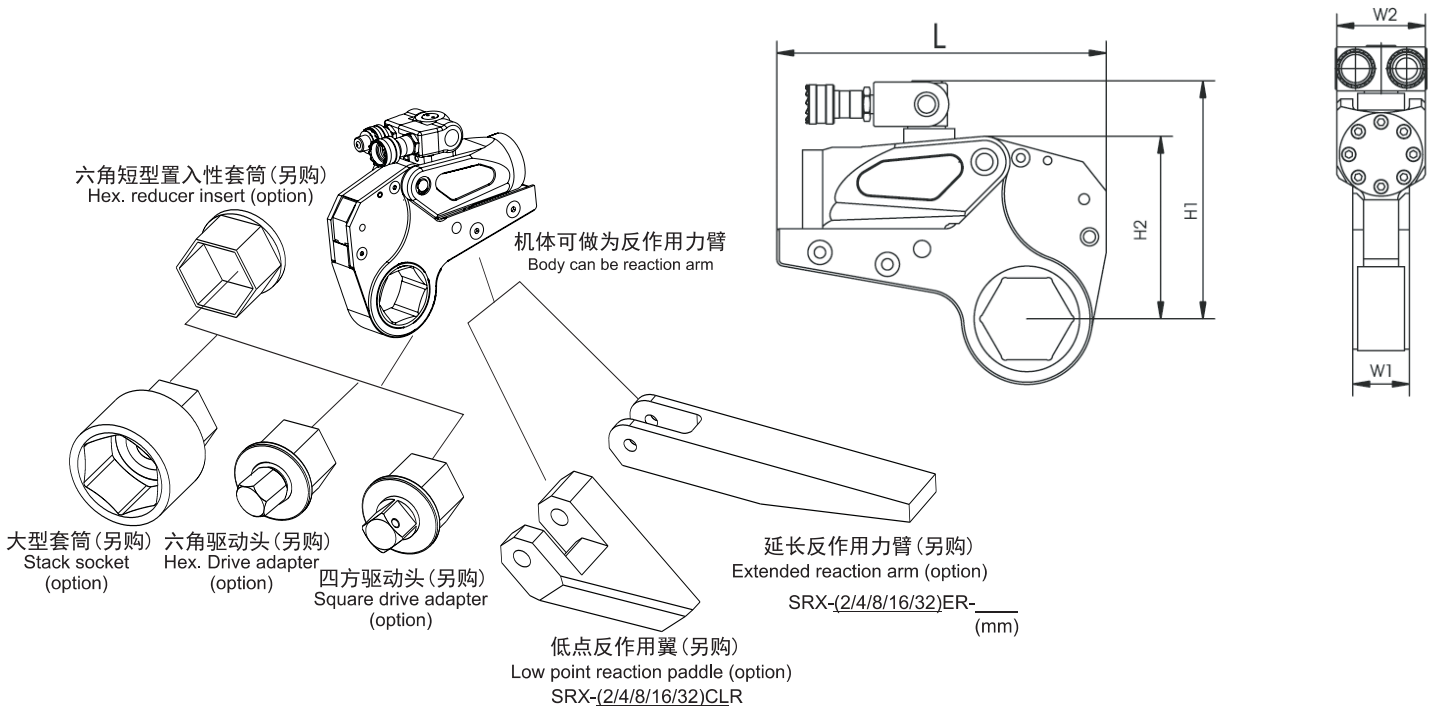


工作头  
Link



动力头  
Cylinder

型号 Model	MHW-2		MHW-4		MHW-8		MHW-14	MHW-30	
扭矩范围N.m Torque	232-2328	241-2414	585-5858	647-6474	1094-10941	1177-11774	1852-18521	4188-41882	4459-44593
螺母对边mm Hex. Size	19-55	60	34-65	70-80	41-95	100-105	50-117	110-155	160-175
动力头重量Kg Cylinder	1	1	2	2	3.3	3.3	5.5	11.4	11.4
工作头重量Kg Link	1.6	1.7	4.4	4.6	8	8.4	11.6	29	30
L	196.4	196.4	245	246	300	301	361	430	441
H1	125.9	128.5	177	187	207	216	239	303	315
H2	102.3	105	135.7	145.7	169	178	204	272	285
W1	32	32	42	42	53	53	64	85	85
W2	51	51	66	66	83	83	99	131	131

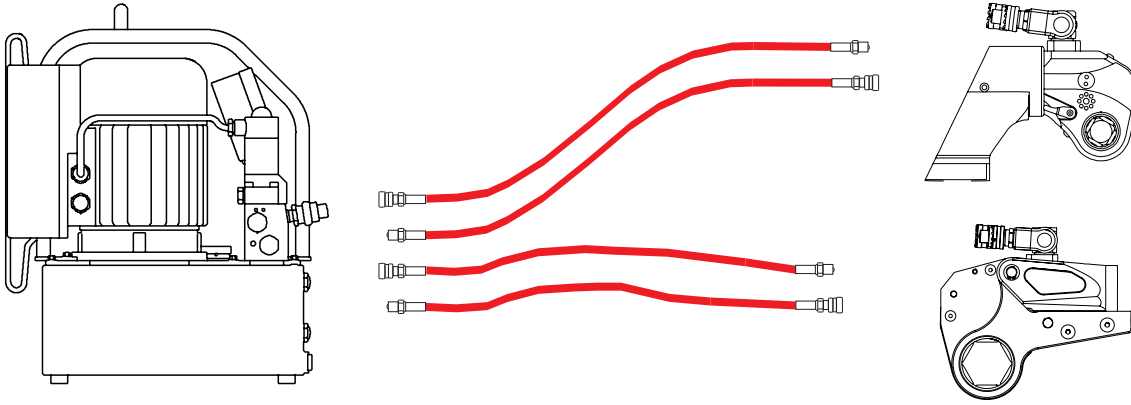


MHW扭矩扳手换算表 MHW series torque conversion chat

螺母对边 screw size 工作压力 (mm) work pressure		MHW-2		MHW-4		MHW-8		MHW-14	MHW-30	
		15-55	60	34-65	70-80	41-95	100-105	50-117	110-155	160-175
psi	bar	N.m	N.m	N.m	N.m	N.m	N.m	N.m	N.m	N.m
1450	100	332	344	836	924	1563	1682	2646	5983	6370
1595	110	365	379	920	1017	1719	1850	2910	6581	7007
1740	120	398	413	1003	1109	1876	2018	3175	7180	7644
1885	130	432	448	1087	1202	2032	2186	3440	7778	8281
2030	140	465	482	1171	1294	2188	2354	3704	8376	8918
2175	150	498	517	1255	1387	2344	2523	3969	8975	9555
2320	160	531	551	1338	1479	2501	2691	4233	9573	10192
2465	170	565	586	1422	1572	2657	2859	4498	10171	10829
2610	180	598	620	1506	1664	2813	3027	4762	10769	11467
2755	190	631	655	1589	1757	2970	3195	5027	11368	12104
2900	200	665	689	1673	1849	3126	3364	5292	11966	12741
3045	210	698	724	1757	1942	3282	3532	5556	12564	13378
3190	220	731	758	1840	2043	3439	3700	5821	13163	14015
3335	230	764	793	1924	2127	3595	3868	6085	13761	14652
3480	240	798	827	2008	2219	3751	4037	6350	14359	15289
3625	250	831	862	2092	2312	3907	4205	6615	14958	15926
3770	260	864	896	2175	2404	4064	4373	6879	15556	16563
3915	270	897	931	2259	2497	4220	4541	7144	16154	17200
4060	280	931	965	2343	2589	4376	4709	7408	16753	17837
4205	290	964	1000	2426	2682	4533	4878	7673	17351	18474
4350	300	997	1034	2510	2774	4689	5046	7938	17949	19111
4495	310	1030	1069	2594	2867	4845	5214	8202	18548	19748
4640	320	1064	1103	2677	2959	5002	5382	8467	19146	20385
4785	330	1097	1138	2761	3052	5158	5550	8731	19744	21022
4930	340	1130	1172	2845	3144	5314	5719	8996	20343	21659
5075	350	1164	1207	2929	3237	5470	5887	9260	20941	22296
5220	360	1197	1241	3012	3329	5627	6055	9525	21539	22933
5365	370	1230	1276	3096	3422	5783	6223	9790	22138	23570
5510	380	1263	1310	3180	3514	5939	6391	10054	22736	24207
5655	390	1297	1345	3263	3607	6096	6560	10319	23334	24845
5800	400	1330	1379	3347	3699	6252	6728	10583	23932	25482
5945	410	1363	1414	3431	3792	6408	6896	10848	24531	26119
6090	420	1396	1448	3514	3884	6565	7064	11113	25129	26756
6235	430	1430	1483	3598	3977	6721	7232	11377	25727	27393
6380	440	1463	1517	3682	4069	6877	7401	11642	26326	28030
6525	450	1496	1552	3766	4162	7033	7569	11906	26924	28667
6670	460	1530	1586	3849	4254	7190	7731	12171	27522	29304
6815	470	1563	1621	3933	4347	7346	7905	12435	28121	29941
6960	480	1596	1655	4017	4439	7502	8073	12700	28719	30578
7105	490	1629	1690	4100	4532	7659	8242	12965	29317	31215
7250	500	1663	1724	4184	4624	7815	8410	13229	29916	31852
7395	510	1696	1759	4268	4717	7971	8578	13494	30514	32489
7540	520	1729	1793	4351	4809	8128	8746	13758	31112	33126
7685	530	1762	1828	4435	4902	8284	8914	14023	31711	33763
7830	540	1796	1862	4519	4994	8440	9083	14288	32309	34400
7975	550	1829	1897	4603	5087	8596	9251	14552	32907	35037
8120	560	1862	1931	4686	5179	8753	9419	14817	33506	35674
8265	570	1895	1966	4770	5272	8909	9587	15081	34104	36311
8410	580	1929	2000	4854	5364	9065	9756	15346	34702	36948
8555	590	1962	2035	4937	5457	9222	9924	15611	35301	37585
8700	600	1995	2069	5021	5549	9378	10092	15875	35899	38222
8845	610	2029	2104	5105	5642	9534	10260	16140	36497	38860
8990	620	2062	2138	5188	5734	9691	10428	16404	37095	39497
9135	630	2095	2173	5272	5827	9847	10597	16669	37694	40134
9280	640	2128	2207	5356	5919	10003	10765	16933	38292	40771
9425	650	2162	2242	5440	6012	10159	10933	17198	38890	41408
9570	660	2195	2276	5523	6104	10316	11101	17463	39489	42045
9715	670	2228	2311	5607	6197	10472	11269	17727	40087	42682
9860	680	2261	2345	5691	6289	10628	11438	17992	40685	43319
10005	690	2295	2380	5774	6382	10785	11606	18256	41284	43956
10150	700	2328	2414	5858	6474	10941	11774	18521	41882	44593

MHW扭矩扳手换算表 MHW series torque conversion chat

螺母对边 screw size 工作压力 work pressure		MHW-2		MHW-4		MHW-8		MHW-14	MHW-30	
		15-55	60	34-65	70-80	41-95	100-105	50-117	110-155	160-175
psi	bar	lbf.ft	lbf.ft	lbf.ft	lbf.ft	lbf.ft	lbf.ft	lbf.ft	lbf.ft	lbf.ft
1450	100	246	255	619	684	1158	1246	1960	4432	4719
1595	110	270	281	681	753	1273	1370	2156	4875	5190
1740	120	295	306	743	821	1390	1495	2352	5319	5662
1885	130	320	332	805	890	1505	1619	2548	5761	6134
2030	140	344	357	867	959	1621	1744	2744	6204	6606
2175	150	369	383	930	1027	1736	1869	2940	6648	7078
2320	160	393	408	991	1096	1853	1993	3136	7091	7550
2465	170	419	434	1053	1164	1968	2118	3332	7534	8021
2610	180	443	459	1116	1233	2084	2242	3527	7977	8494
2755	190	467	485	1177	1301	2200	2367	3724	8421	8966
2900	200	493	510	1239	1370	2316	2492	3920	8864	9438
3045	210	517	536	1301	1439	2431	2616	4116	9307	9910
3190	220	541	561	1363	1513	2547	2741	4312	9750	10381
3335	230	566	587	1425	1576	2663	2865	4507	10193	10853
3480	240	591	613	1487	1644	2779	2990	4704	10636	11325
3625	250	616	639	1550	1713	2894	3115	4900	11080	11797
3770	260	640	664	1611	1781	3010	3239	5096	11523	12269
3915	270	664	690	1673	1850	3126	3364	5292	11966	12741
4060	280	690	715	1736	1918	3241	3488	5487	12410	13213
4205	290	714	741	1797	1987	3358	3613	5684	12853	13684
4350	300	739	766	1859	2055	3473	3738	5880	13296	14156
4495	310	763	792	1921	2124	3589	3862	6076	13739	14628
4640	320	788	817	1983	2192	3705	3987	6272	14182	15100
4785	330	813	843	2045	2261	3821	4111	6467	14625	15572
4930	340	837	868	2107	2329	3936	4236	6664	15069	16044
5075	350	862	894	2170	2398	4052	4361	6859	15512	16516
5220	360	887	919	2231	2466	4168	4485	7056	15955	16987
5365	370	911	945	2293	2535	4284	4610	7252	16399	17459
5510	380	936	970	2356	2603	4399	4734	7447	16841	17931
5655	390	961	996	2417	2672	4516	4859	7644	17284	18404
5800	400	985	1021	2479	2740	4631	4984	7839	17727	18876
5945	410	1010	1047	2541	2809	4747	5108	8036	18171	19347
6090	420	1034	1073	2603	2877	4863	5233	8232	18614	19819
6235	430	1059	1099	2665	2946	4979	5357	8427	19057	20291
6380	440	1084	1124	2727	3014	5094	5482	8624	19501	20763
6525	450	1108	1150	2790	3083	5210	5607	8819	19944	21235
6670	460	1133	1175	2851	3151	5326	5731	9016	20387	21707
6815	470	1158	1201	2913	3220	5442	5856	9211	20830	22179
6960	480	1182	1226	2976	3288	5557	5980	9407	21273	22650
7105	490	1207	1252	3037	3357	5673	6105	9604	21716	23122
7250	500	1232	1277	3099	3425	5789	6230	9799	22160	23594
7395	510	1256	1303	3161	3494	5904	6354	9996	22603	24066
7540	520	1281	1328	3223	3562	6021	6479	10191	23046	24538
7685	530	1305	1354	3285	3631	6136	6603	10387	23490	25010
7830	540	1330	1379	3347	3699	6252	6728	10584	23933	25481
7975	550	1355	1405	3410	3768	6367	6853	10779	24376	25953
8120	560	1379	1430	3471	3836	6484	6977	10976	24819	26425
8265	570	1404	1456	3533	3905	6599	7101	11171	25262	26897
8410	580	1429	1481	3596	3973	6715	7227	11367	25705	27369
8555	590	1453	1507	3657	4042	6831	7351	11564	26149	27841
8700	600	1478	1533	3719	4110	6947	7476	11759	26592	28313
8845	610	1503	1559	3781	4179	7062	7600	11956	27035	28785
8990	620	1527	1584	3843	4247	7179	7724	12151	27478	29257
9135	630	1552	1610	3905	4316	7294	7850	12347	27921	29729
9280	640	1576	1635	3967	4384	7410	7974	12543	28364	30201
9425	650	1601	1661	4030	4453	7525	8099	12739	28807	30673
9570	660	1626	1686	4091	4521	7641	8223	12936	29251	31144
9715	670	1650	1712	4153	4590	7757	8347	13131	29694	31616
9860	680	1675	1737	4216	4659	7873	8473	13327	30137	32088
10005	690	1700	1763	4277	4727	7989	8597	13523	30581	32560
10150	700	1724	1788	4339	4796	8104	8721	13719	31024	33032



## 基础安装

安装A. 1台液压扭矩扳手专用泵+1台驱动型液压扭矩扳手+套筒+2条油管。

安装B. 1台液压扭矩扳手专用泵+1台中空型液压扭矩扳手+12条油管。

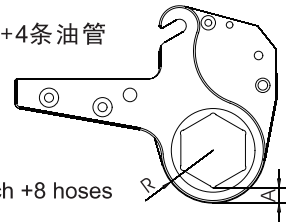
安装C. 1台液压扭矩扳手专用泵+2台驱动型液压扭矩扳手（+套筒）或2台中空型液压扭矩扳手+4条油管

## Basic System Set-up

A. 1 Hydraulic Torque Wrench using Electric Pump+1 Square Drive Wrench +Socket+2 hoses

B. 1 Hydraulic Torque Wrench using Electric Pump+1 Low Profile Wrench +2 hoses

C. 1 Hydraulic Torque Wrench using Electric Pump+4 Square Drive Wrench (+Socket)+ 4Low Profile Wrench +8 hoses



螺栓直径 Bolt Dia. (M)	螺母 对边 Across flat (mm)	MHW-2			MHW-4			MHW-8			MHW-14			MHW-30		
		工作头型号 link model	R (mm)	A (mm)	工作头型号 link model	R (mm)	A (mm)	工作头型号 link model	R (mm)	A (mm)	工作头型号 link model	R (mm)	A (mm)	工作头型号 link model	R (mm)	A (mm)
12	19	MHW-2/S19	27	16												
14	22	MHW-2/S22	27	14												
18	27	MHW-2/S27	27	11												
20	30	MHW-2/S30	29	12												
	32	MHW-2/S32	29	11												
22	34	MHW-2/S34	31	11	MHW-4/S34	36	16									
24	36	MHW-2/S36	31	10	MHW-4/S36	36	15									
27	41	MHW-2/S41	34	10	MHW-4/S41	39	15	MHW-8/S41	46	22						
30	46	MHW-2/S46	37	10	MHW-4/S46	42	15	MHW-8/S46	46	19						
33	50	MHW-2/S50	40	11	MHW-4/S50	44	15	MHW-8/S50	46	17	MHW-14/S50	60	31			
36	55	MHW-2/S55	43	11	MHW-4/S55	46	14	MHW-8/S55	50	18	MHW-14/S55	60	28			
39	60	MHW-2/S60	46	11	MHW-4/S60	50	15	MHW-8/S60	52	17	MHW-14/S60	60	25			
42	65				MHW-4/S65	53	15	MHW-8/S65	55	17	MHW-14/S65	60	22			
45	70				MHW-4/S70	56	15	MHW-8/S70	58	17	MHW-14/S70	60	19			
48	75				MHW-4/S75	59	15	MHW-8/S75	60	17	MHW-14/S75	63	19			
52	80				MHW-4/S80	61	15	MHW-8/S80	63	16	MHW-14/S80	66	19			
56	85							MHW-8/S85	66	16	MHW-14/S85	69	19	MHW-30/S85	78	28
60	90							MHW-8/S90	69	7	MHW-14/S90	72	20	MHW-30/S90	78	27
64	95							MHW-8/S95	71	16	MHW-14/S95	74	19	MHW-30/S95	83	28
68	100							MHW-8/S100	75	17	MHW-14/S100	77	19	MHW-30/S100	83	25
72	105							MHW-8/S105	78	17	MHW-14/S105	80	19	MHW-30/S105	89	28
76	110										MHW-14/S110	83	19	MHW-30/S110	89	25
80	115										MHW-14/S115	87	20	MHW-30/S115	95	28
	117										MHW-14/S117	87	19	MHW-30/S117	95	27
85	120													MHW-30/S120	95	25
	125													MHW-30/S125	101	29
90	130													MHW-30/S130	101	26
95	135													MHW-30/S135	104	26
	140													MHW-30/S140	110	29
100	145													MHW-30/S145	110	26
105	150													MHW-30/S150	116	29
110	155													MHW-30/S155	116	26
	160													MHW-30/S160	128	36
115	165													MHW-30/S165	128	33
120	170													MHW-30/S170	128	30
	175													MHW-30/S175	128	27

## GXA-8.5 液压扭矩扳手专用泵

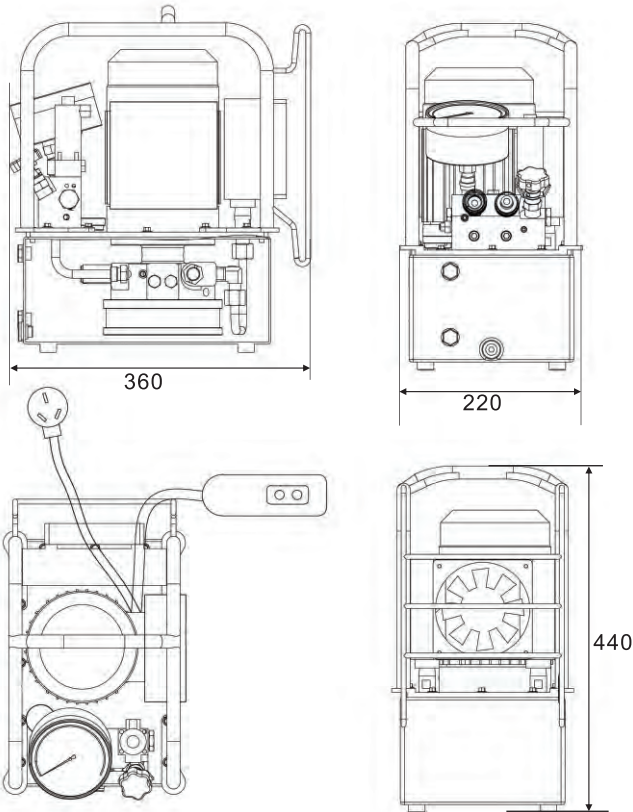
- 紧凑设计，三级流量。
- 适用于二台扳手同步进行（可选配四台同步工作泵）。
- 不锈钢把手保护架。
- 精密压力表。
- 压力在40-700bar平滑调整。
- 配置用于24小时连续工作。
- 最热温度为70度。
- 气冷式油温冷却系统。
- 轻量化设计机身，便于携带，重量仅22Kg。

### Hydraulic Electric/Torque Wrench Pump

- ※ Compact ,automatic three stage flow.
- ※ Applicable on two wrenches simultaneously.(torque wrench can match with another 4 hydraulic torque wrench work at the same time)
- ※ Stainless steel handle protector.
- ※ High precision pressure gauge.
- ※ Infinitely variable pressure adjustment between 40-700bar.
- ※ Configured for continuous operations.
- ※ Max operation heat 70.
- ※ Heat Exchanger Kit : Design air cooling to avoid pump ouertheating and costly repair from long work periods.
- ※ Convenient to bring with its light weight, weight:22Kg.



\*可匹配四同步泵



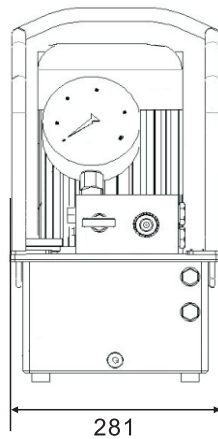
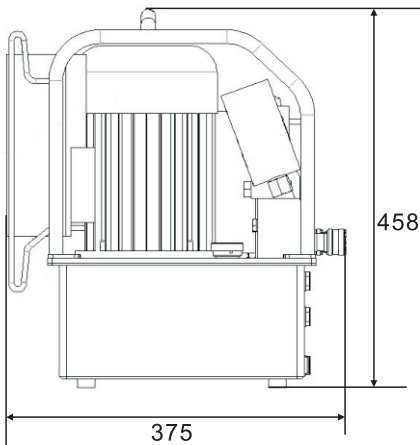
型号 Model	转速 Rpm (r/min)	马达 Motor kw(hp)	输入 Current /Air	输出压力 Pressure (bar)			流量 Flow rate (L/min)			油箱容量 Oil tank (L)	可用油量 Usable oil (L)	重量 Weight (kg)	动力源 Power Source
				L	M	H	L	M	H				
GXA-8.5	2800	1.5	220/50 (V/Hz)	100	250	700	8.5	2.2	1.1	6	5.5	22	电源 Source

## HNP08B 超高压电动泵

- 单作用、高性能超高压电动泵，性能稳定。
- 适用于液压螺栓拉伸器，造船、风电等现场作业。
- 高精度压力表，便于精确调整压力。
- 在700~2500bar范围内轻松调整输出压力。
- 卡扣式快速接头，操作快捷、方便。
- 轻量化设计机身，便于携带。

### Super High Pressure Electrical Pump

- ※ Single-Acting and high performance.
- ※ To be operated for Bolt Tensioners and other equipments in shipping vessel and wind power industry.
- ※ To be convenient to adjust the pressure with the High precision Pressure Gauge.
- ※ Easy to adjust the pressure in the range of 700-2500bar.
- ※ Simple and quick operation with the High performance Quick Coupler.
- ※ Convenient to bring with its light weight.



配件名称	配件描述	Bh84	Bh94
配用BH系列油管	BH series Hydraulic Hose		
最大工作压力/安全系数	Maximum Operation Pressure / Safety Parameter	1800bar/2.5	2800bar/2.5
内径/外径(mm)	Inside Diameter/ Outside Diameter	5.0×11.2	5.0×13.4
最小弯曲半径(mm)	Minimum Bending Radius	150	200
配用快速接头	Available Quick Coupler	C116	C125

型号 Model	转速 Rpm (r/min)	马达 Motor kw(hp)	输入 Current /Air	输出压力 Pressure (bar)	流量 Flow rate (L/min)	油箱容量 Oil tank (L)	可用油量 Usable oil (L)	重量 Weight (kg)	动力源 Power Source
HNP08B	2800	1.0	220/50 (V/Hz)	1600/2000/2500	0.8	8	7	26.5	电源 Source

## HE-4P 液压扭矩扳手专用泵

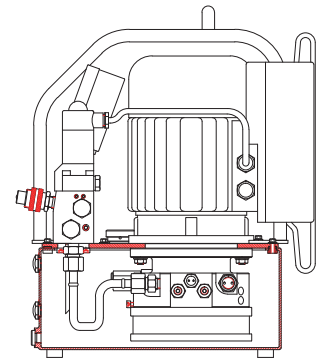
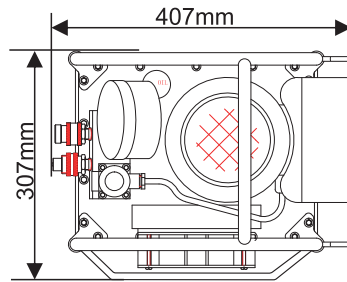
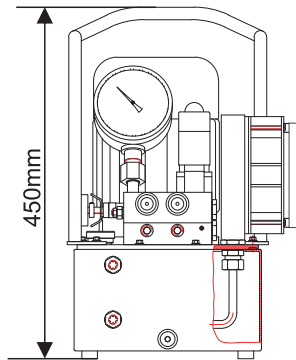
- 紧凑设计，三级流量。
- 适用于二台扳手同步进行（可选配四台同步工作泵）。
- 铁管式把手保护架。
- 精密压力表。
- 压力在40-700bar平滑调整。
- 配置用于24小时连续工作。
- 最热温度为70度。
- 气冷式油温冷却系统。

### Hydraulic Electric/Torque Wrench Pump

- ※ Compact ,automatic three stage flow.
- ※ Applicable on two wrenches simultaneously.(torque wrench can match with another 4 hydraulic torque wrench work at the same time)
- ※ Tubular steel lifting/protective hoops.
- ※ High precision pressure gauge.
- ※ Infinitely variable pressure adjustment between 40-700bar.
- ※ Configured for continuous operations.
- ※ Max operation heat 70.
- ※ Heat Exchanger Kit : Design air cooling to avoid pump overheating and costly repair from long work periods.



\*可匹配四同步泵



## HA-4P 液压扭矩扳手专用气动泵

- 紧凑设计，三级流量。
- 适用于二台扳手同步进行（可选配四台同步工作泵）。
- 铁管式把手保护架。
- 精密压力表。
- 压力在40-700bar平滑调整。
- 配置用于24小时连续工作。
- 输入气源4-8bar。

### Hydraulic Electric/Torque Wrench Pump

- ※ Compact ,automatic three stage flow.
- ※ Applicable on two wrenches simultaneously.(torque wrench can match with another 4 hydraulic torque wrench work at the same time)
- ※ Tubular steel lifting/protective hoops.
- ※ High precision pressure gauge.
- ※ Infinitely variable pressure adjustment between 40-700bar.
- ※ Configured for continuous operations.
- ※ Air press: 4-8bar.



\*可匹配四同步泵



型号 Model	转速 Rpm (r/min)	马达 Motor kw(hp)	输入 Current /Air	输出压力 Pressure (bar)			流量 Flow rate (L/min)			油箱容量 Oil tank (L)	可用油量 Usable oil (L)	重量 Weight (kg)	动力源 Power Source
				L	M	H	L	M	H				
HE-4P	2800	1.1	220/50 (V/Hz)	100	250	700	7	1.6	0.8	8	7	29	电源 Source
HA-4P	2800	1.1	4-8 bar	100	250	700	7	1.6	0.8	8	7	20.5	气源 Air



## MP 液压油缸专用泵

- 双速泵设计，最高输出压力为700bar，在此范围内压力可调。
- 实现模块化生产，可为客户提供200多种泵型，其采用5种不同功能的阀块，4~56L多种油箱及100~120V、200~240V、350~420V等多种可选电机组装而成。
- 适用于各种工业生产领域，可直接配以相应的机具进行推、拉、扩张、夹紧、弯曲、升顶、挤压等作业，为您的系统提供充沛动力。

### Hydraulic cylinder pump

- ※ Double-speed designed, infinitely variable pressure adjustment between 0-700 bar.
- ※ Modularity product, supply more than 200 kinds electric pump, and there have 5 different valves can choose, 4-56L multiple oil tank, and many different electrical machinery (100-120V,200-240V,350-420V).
- ※ MP-series electric hydraulic pumps suits to a wide variety of industrial and application fields to work as lifting, pushing, pulling, bending, pressing punching and many other application. It is economical and durable power source.



A型阀 (手动双作用)  
TypeA:Manual Valve(double-acting)



B型阀 (手动单作用)  
TypeB:Manual Valve(single-acting)



C型阀 (电磁阀保压)  
TypeC:Solenoid Valve(single-acting)



D型阀 (电磁阀不保压)  
TypeD:Solenoid Valve(single-acting)



H型阀 (电磁阀控制双作用)  
TypeH:Solenoid Valve(double-acting)

选型总表 (1) .....  
 选型总表 (2) .....  
 MP系列电动泵外形尺寸、流量图总览.....  
 MP系列通用阀块介绍.....  
 MP系列电动液压泵油缸应用实例.....

Selection table(1)  
 Selection table(1)  
 Outline dimension drawing of MP series pump  
 Universal valve block of MP series pump

200~230V/50HZ动力源 200~230V/50HZ				公共属性 Public property				200~230V/60HZ动力源 200~230V/60HZ			
型号 Model	电机 功率 Power	流量L/min Flow		标配操作阀 Valve tape	液压阀功能 Valve function	油箱容积 /可用油量 Volume	重量Kg (不含油) Weight	流量L/min Flow		电机 功率 Power	型号 Model
		低压 Low	高压 High					低压 Low	高压 High		
MP04AR56	0.37kw 单相电机 single phase power	2	0.3	A型(手动双作用) TypeA:ManualValve(double-acting)	进程/锁定/回程 Input/lock/output	6L/4L	19				
MP04BR56		2	0.3	B型(手动单作用) TypeB:ManualValve(single-acting)	进程/回程 Input/output						
MP04CR56		2	0.3	C型(电磁阀单作用) TypeC:Solenoid Valve(single-acting)	进程/锁定/回程 Input/lock/output						
MP08AS12	0.37kw 单相电机 single phase power	5.5	0.6	A型(手动双作用) TypeA:ManualValve(double-acting)	进程/锁定/回程 Input/lock/output	10L/8L	21.5	4.5	0.7		MP08AT23
MP08BS12		5.5	0.6	B型(手动单作用) TypeB:ManualValve(single-acting)	进程/回程 Input/output						MP08BT23
MP08CS12		5.5	0.6	C型(电磁阀单作用) TypeC:Solenoid Valve(single-acting)	进程/锁定/回程 Input/lock/output						MP08CT23
MP08DS12		5.5	0.6	D型(电磁阀单作用不保压) TypeD:Solenoid Valve(single-acting)	进程/回程 Input/output						MP08DT23
MP08HS12		5.5	0.6	H型(电磁阀双作用) TypeH:Solenoid Valve(double-acting)	进程/锁定/回程 Input/lock/output						MP08HT23
MP13AT13		5.5	0.8	A型(手动双作用) TypeA:ManualValve(double-acting)	进程/锁定/回程 Input/lock/output	17L/13L	26	4.5	0.7		MP13AT23
MP13BT13		7.2	0.8	B型(手动单作用) TypeB:ManualValve(single-acting)	进程/回程 Input/output						MP13BT23
MP13CT13		7.2	0.8	C型(电磁阀单作用) TypeC:Solenoid Valve(single-acting)	进程/锁定/回程 Input/lock/output						MP13CT23
MP13DT13		7.2	0.8	D型(电磁阀单作用不保压) TypeD:Solenoid Valve(single-acting)	进程/回程 Input/output						MP13DT23
MP13HT13		5.5	0.8	H型(电磁阀双作用) TypeH:Solenoid Valve(double-acting)	进程/锁定/回程 Input/lock/output						MP13HT23
MP18AT13	1.1kw 单相电机 single phase power	5.5	0.8	A型(手动双作用) TypeA:ManualValve(double-acting)	进程/锁定/回程 Input/lock/output	20L/18L	27	4.5	0.7		MP18AT23
MP18BT13		7.2	0.8	B型(手动单作用) TypeB:ManualValve(single-acting)	进程/回程 Input/output						MP18BT23
MP18CT13		7.2	0.8	C型(电磁阀单作用) TypeC:Solenoid Valve(single-acting)	进程/锁定/回程 Input/lock/output						MP18CT23
MP18DT13		7.2	0.8	D型(电磁阀单作用不保压) TypeD:Solenoid Valve(single-acting)	进程/回程 Input/output						MP18DT23
MP18HT13		5.5	0.8	H型(电磁阀双作用) TypeH:Solenoid Valve(double-acting)	进程/锁定/回程 Input/lock/output						MP18HT23
MP24AT13	单相电机 single phase power	5.5	0.8	A型(手动双作用) TypeA:ManualValve(double-acting)	进程/锁定/回程 Input/lock/output	27L/24L	29	4.5	0.7		MP24AT23
MP24BT13		7.2	0.8	B型(手动单作用) TypeB:ManualValve(single-acting)	进程/回程 Input/output						MP24BT23
MP24CT13		7.2	0.8	C型(电磁阀单作用) TypeC:Solenoid Valve(single-acting)	进程/锁定/回程 Input/lock/output						MP24CT23
MP24DT13		7.2	0.8	D型(电磁阀单作用不保压) TypeD:Solenoid Valve(single-acting)	进程/回程 Input/output						MP24DT23
MP24HT13		5.5	0.8	H型(电磁阀双作用) TypeH:Solenoid Valve(double-acting)	进程/锁定/回程 Input/lock/output						MP24HT23
MP32AT13		5.5	0.8	A型(手动双作用) TypeA:ManualValve(double-acting)	进程/锁定/回程 Input/lock/output	40L/32L	33	4.5	0.7		MP32AT23
MP32BT13		7.2	0.8	B型(手动单作用) TypeB:ManualValve(single-acting)	进程/回程 Input/output						MP32BT23
MP32CT13		7.2	0.8	C型(电磁阀单作用) TypeC:Solenoid Valve(single-acting)	进程/锁定/回程 Input/lock/output						MP32CT23
MP32DT13		7.2	0.8	D型(电磁阀单作用不保压) TypeD:Solenoid Valve(single-acting)	进程/回程 Input/output						MP32DT23
MP32HT13		5.5	0.8	H型(电磁阀双作用) TypeH:Solenoid Valve(double-acting)	进程/锁定/回程 Input/lock/output						MP32HT23
MP56AT13		5.5	0.8	A型(手动双作用) TypeA:ManualValve(double-acting)	进程/锁定/回程 Input/lock/output	64L/56L	37	4.5	0.7		MP56AT23
MP56BT13		7.2	0.8	B型(手动单作用) TypeB:ManualValve(single-acting)	进程/回程 Input/output						MP56BT23
MP56CT13		7.2	0.8	C型(电磁阀单作用) TypeC:Solenoid Valve(single-acting)	进程/锁定/回程 Input/lock/output						MP56CT23
MP56DT13		7.2	0.8	D型(电磁阀单作用不保压) TypeD:Solenoid Valve(single-acting)	进程/回程 Input/output						MP56DT23
MP56HT13		5.5	0.8	H型(电磁阀双作用) TypeH:Solenoid Valve(double-acting)	进程/锁定/回程 Input/lock/output						MP56HT23

MP系列电动泵选型表

100~120V/50HZ动力源 100~120V/50HZ				公共属性 Public property				100~120V/60HZ动力源 100~120V/60HZ			
型号 Model	电机 功率 Power	流量L/min Flow		标配操作阀 Valve tape	液压阀功能 Valve function	油箱容积 /可用油量 Volume	重量Kg (不含油) Weight	流量L/min Flow		电机 功率 Power	型号 Model
		低压 Low	高压 High					低压 Low	高压 High		
MP08AT33	1.1kw 单相电机 single phase power	5.5	0.8	A型(手动双作用) TypeA:ManualValve(double-acting)	进程/锁定/回程 Input/lock/output	10L/8L	25	4.5	0.7	0.9kw 单相电机 single phase power	MP08AT43
MP08BT33		7.2	0.8	B型(手动单作用) TypeB:ManualValve(single-acting)	进程/回程 Input/output		25	4.5	0.7		MP08BT43
MP08CT33		7.2	0.8	C型(电磁阀单作用) TypeC:Solenoid Valve(single-acting)	进程/锁定/回程 Input/lock/output		25	4.5	0.7		MP08CT43
MP08DT33		7.2	0.8	D型(电磁阀单作用不保压) TypeD:Solenoid Valve(single-acting)	进程/回程 Input/output		25	4.5	0.7		MP08DT43
MP08HT33		5.5	0.8	H型(电磁阀双作用) TypeH:Solenoid Valve(double-acting)	进程/锁定/回程 Input/lock/output		25	4.5	0.7		MP08HT43
MP13AT33		5.5	0.8	A型(手动双作用) TypeA:ManualValve(double-acting)	进程/锁定/回程 Input/lock/output	17L/13L	26	4.5	0.7		MP13AT43
MP13BT33		7.2	0.8	B型(手动单作用) TypeB:ManualValve(single-acting)	进程/回程 Input/output		26	4.5	0.7		MP13BT43
MP13CT33		7.2	0.8	C型(电磁阀单作用) TypeC:Solenoid Valve(single-acting)	进程/锁定/回程 Input/lock/output		26	4.5	0.7		MP13CT43
MP13DT33		7.2	0.8	D型(电磁阀单作用不保压) TypeD:Solenoid Valve(single-acting)	进程/回程 Input/output		26	4.5	0.7		MP13DT43
MP13HT33		5.5	0.8	H型(电磁阀双作用) TypeH:Solenoid Valve(double-acting)	进程/锁定/回程 Input/lock/output		26	4.5	0.7		MP13HT43
MP18AT33		5.5	0.8	A型(手动双作用) TypeA:ManualValve(double-acting)	进程/锁定/回程 Input/lock/output	20L/18L	27	4.5	0.7		MP18AT43
MP18BT33		7.2	0.8	B型(手动单作用) TypeB:ManualValve(single-acting)	进程/回程 Input/output		27	4.5	0.7		MP18BT43
MP18CT33		7.2	0.8	C型(电磁阀单作用) TypeC:Solenoid Valve(single-acting)	进程/锁定/回程 Input/lock/output		27	4.5	0.7		MP18CT43
MP18DT33		7.2	0.8	D型(电磁阀单作用不保压) TypeD:Solenoid Valve(single-acting)	进程/回程 Input/output		27	4.5	0.7		MP18DT43
MP18HT33		5.5	0.8	H型(电磁阀双作用) TypeH:Solenoid Valve(double-acting)	进程/锁定/回程 Input/lock/output		27	4.5	0.7		MP18HT43
MP24AT33		5.5	0.8	A型(手动双作用) TypeA:ManualValve(double-acting)	进程/锁定/回程 Input/lock/output	27L/24L	29	4.5	0.7		MP24AT43
MP24BT33		7.2	0.8	B型(手动单作用) TypeB:ManualValve(single-acting)	进程/回程 Input/output		29	4.5	0.7		MP24BT43
MP24CT33		7.2	0.8	C型(电磁阀单作用) TypeC:Solenoid Valve(single-acting)	进程/锁定/回程 Input/lock/output		29	4.5	0.7		MP24CT43
MP24DT33		7.2	0.8	D型(电磁阀单作用不保压) TypeD:Solenoid Valve(single-acting)	进程/回程 Input/output		29	4.5	0.7		MP24DT43
MP24HT33		5.5	0.8	H型(电磁阀双作用) TypeH:Solenoid Valve(double-acting)	进程/锁定/回程 Input/lock/output		29	4.5	0.7		MP24HT43
MP32AT33	5.5	0.8	A型(手动双作用) TypeA:ManualValve(double-acting)	进程/锁定/回程 Input/lock/output	40L/32L	33	4.5	0.7	MP32AT43		
MP32BT33	7.2	0.8	B型(手动单作用) TypeB:ManualValve(single-acting)	进程/回程 Input/output		33	4.5	0.7	MP32BT43		
MP32CT33	7.2	0.8	C型(电磁阀单作用) TypeC:Solenoid Valve(single-acting)	进程/锁定/回程 Input/lock/output		33	4.5	0.7	MP32CT43		
MP32DT33	7.2	0.8	D型(电磁阀单作用不保压) TypeD:Solenoid Valve(single-acting)	进程/回程 Input/output		33	4.5	0.7	MP32DT43		
MP32HT33	5.5	0.8	H型(电磁阀双作用) TypeH:Solenoid Valve(double-acting)	进程/锁定/回程 Input/lock/output		33	4.5	0.7	MP32HT43		
MP56AT33	5.5	0.8	A型(手动双作用) TypeA:ManualValve(double-acting)	进程/锁定/回程 Input/lock/output	64L/56L	37	4.5	0.7	MP56AT43		
MP56BT33	7.2	0.8	B型(手动单作用) TypeB:ManualValve(single-acting)	进程/回程 Input/output		37	4.5	0.7	MP56BT43		
MP56CT33	7.2	0.8	C型(电磁阀单作用) TypeC:Solenoid Valve(single-acting)	进程/锁定/回程 Input/lock/output		37	4.5	0.7	MP56CT43		
MP56DT33	7.2	0.8	D型(电磁阀单作用不保压) TypeD:Solenoid Valve(single-acting)	进程/回程 Input/output		37	4.5	0.7	MP56DT43		
MP56HT33	5.5	0.8	H型(电磁阀双作用) TypeH:Solenoid Valve(double-acting)	进程/锁定/回程 Input/lock/output		37	4.5	0.7	MP56HT43		

MP系列电动泵选型表

350~420V/50HZ动力源 350~420V/50HZ				公共属性 Public property				350~420V/60HZ动力源 350~420V/60HZ			
型号 Model	电机 功率 Power	流量L/min Flow		标配操作阀 Valve tape	液压阀功能 Valve function	油箱容积 /可用油量 Volume	重量Kg (不含油) Weight	流量L/min Flow		电机 功率 Power	型号 Model
		低压 Low	高压 High					低压 Low	高压 High		
MP08AT63	1.1kw 三相电机 three phase power	5.5	0.8	A型(手动双作用) TypeA:ManualValve(double-acting)	进程/锁定/回程 Input/lock/output	10L/8L	25	4.5	0.7	1.1kw 三相电机 three phase power	MP08AT83
MP08BT63		7.2	0.8	B型(手动单作用) TypeB:ManualValve(single-acting)	进程/回程 Input/output		25	4.5	0.7		MP08BT83
MP08CT63		7.2	0.8	C型(电磁阀单作用) TypeC:Solenoid Valve(single-acting)	进程/锁定/回程 Input/lock/output		25	4.5	0.7		MP08CT83
MP08DT63		7.2	0.8	D型(电磁阀单作用不保压) TypeD:Solenoid Valve(single-acting)	进程/回程 Input/output		25	4.5	0.7		MP08DT83
MP08HT63		5.5	0.8	H型(电磁阀双作用) TypeH:Solenoid Valve(double-acting)	进程/锁定/回程 Input/lock/output		25	4.5	0.7		MP08HT83
MP13AT63		5.5	0.8	A型(手动双作用) TypeA:ManualValve(double-acting)	进程/锁定/回程 Input/lock/output	17L/13L	26	4.5	0.7		MP13AT83
MP13BT63		7.2	0.8	B型(手动单作用) TypeB:ManualValve(single-acting)	进程/回程 Input/output		26	4.5	0.7		MP13BT83
MP13CT63		7.2	0.8	C型(电磁阀单作用) TypeC:Solenoid Valve(single-acting)	进程/锁定/回程 Input/lock/output		26	4.5	0.7		MP13CT83
MP13DT63		7.2	0.8	D型(电磁阀单作用不保压) TypeD:Solenoid Valve(single-acting)	进程/回程 Input/output		26	4.5	0.7		MP13DT83
MP13HT63		5.5	0.8	H型(电磁阀双作用) TypeH:Solenoid Valve(double-acting)	进程/锁定/回程 Input/lock/output		26	4.5	0.7		MP13HT83
MP18AT63		5.5	0.8	A型(手动双作用) TypeA:ManualValve(double-acting)	进程/锁定/回程 Input/lock/output	20L/18L	27	4.5	0.7		MP18AT83
MP18BT63		7.2	0.8	B型(手动单作用) TypeB:ManualValve(single-acting)	进程/回程 Input/output		27	4.5	0.7		MP18BT83
MP18CT63		7.2	0.8	C型(电磁阀单作用) TypeC:Solenoid Valve(single-acting)	进程/锁定/回程 Input/lock/output		27	4.5	0.7		MP18CT83
MP18DT63		7.2	0.8	D型(电磁阀单作用不保压) TypeD:Solenoid Valve(single-acting)	进程/回程 Input/output		27	4.5	0.7		MP18DT83
MP18HT63		5.5	0.8	H型(电磁阀双作用) TypeH:Solenoid Valve(double-acting)	进程/锁定/回程 Input/lock/output		27	4.5	0.7		MP18HT83
MP24AT63		5.5	0.8	A型(手动双作用) TypeA:ManualValve(double-acting)	进程/锁定/回程 Input/lock/output	27L/24L	29	4.5	0.7		MP24AT83
MP24BT63		7.2	0.8	B型(手动单作用) TypeB:ManualValve(single-acting)	进程/回程 Input/output		29	4.5	0.7		MP24BT83
MP24CT63		7.2	0.8	C型(电磁阀单作用) TypeC:Solenoid Valve(single-acting)	进程/锁定/回程 Input/lock/output		29	4.5	0.7		MP24CT83
MP24DT63		7.2	0.8	D型(电磁阀单作用不保压) TypeD:Solenoid Valve(single-acting)	进程/回程 Input/output		29	4.5	0.7		MP24DT83
MP24HT63		5.5	0.8	H型(电磁阀双作用) TypeH:Solenoid Valve(double-acting)	进程/锁定/回程 Input/lock/output		29	4.5	0.7		MP24HT83
MP32AT63		5.5	0.8	A型(手动双作用) TypeA:ManualValve(double-acting)	进程/锁定/回程 Input/lock/output	40L/32L	33	4.5	0.7		MP32AT83
MP32BT63		7.2	0.8	B型(手动单作用) TypeB:ManualValve(single-acting)	进程/回程 Input/output		33	4.5	0.7		MP32BT83
MP32CT63		7.2	0.8	C型(电磁阀单作用) TypeC:Solenoid Valve(single-acting)	进程/锁定/回程 Input/lock/output		33	4.5	0.7		MP32CT83
MP32DT63		7.2	0.8	D型(电磁阀单作用不保压) TypeD:Solenoid Valve(single-acting)	进程/回程 Input/output		33	4.5	0.7		MP32DT83
MP32HT63	5.5	0.8	H型(电磁阀双作用) TypeH:Solenoid Valve(double-acting)	进程/锁定/回程 Input/lock/output	33		4.5	0.7	MP32HT83		
MP56AT63	5.5	0.8	A型(手动双作用) TypeA:ManualValve(double-acting)	进程/锁定/回程 Input/lock/output	64L/56L	37	4.5	0.7	MP56AT83		
MP56BT63	7.2	0.8	B型(手动单作用) TypeB:ManualValve(single-acting)	进程/回程 Input/output		37	4.5	0.7	MP56BT83		
MP56CT63	7.2	0.8	C型(电磁阀单作用) TypeC:Solenoid Valve(single-acting)	进程/锁定/回程 Input/lock/output		37	4.5	0.7	MP56CT83		
MP56DT63	7.2	0.8	D型(电磁阀单作用不保压) TypeD:Solenoid Valve(single-acting)	进程/回程 Input/output		37	4.5	0.7	MP56DT83		
MP56HT63	5.5	0.8	H型(电磁阀双作用) TypeH:Solenoid Valve(double-acting)	进程/锁定/回程 Input/lock/output		37	4.5	0.7	MP56HT83		

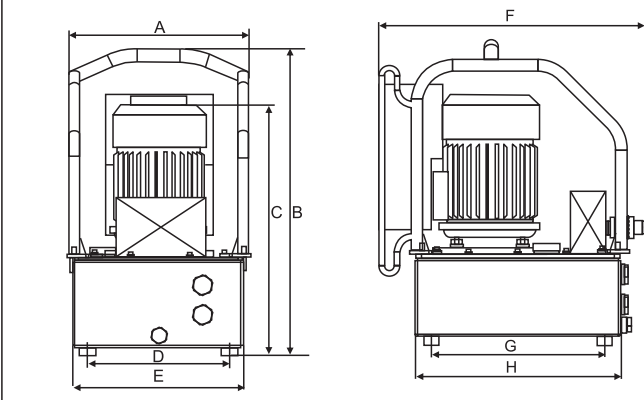
MP系列电动泵选型表

200~240V/50HZ动力源 200~240V/50HZ				公共属性 Public property				200~240V/60HZ动力源 200~240V/60HZ			
型号 Model	电机 功率 Power	流量L/min Flow		标配操作阀 Valve tape	液压阀功能 Valve function	油箱容积 /可用油量 Volume	重量Kg (不含油) Weight	流量L/min Flow		电机 功率 Power	型号 Model
		低压 Low	高压 High					低压 Low	高压 High		
MP08AT73	1.1kw 三相电机 three phase power	5.5	0.8	A型(手动双作用) TypeA:ManualValve(double-acting)	进程/锁定/回程 Input/lock/output	10L/8L	25	4.5	0.7	1.1kw 三相电机 three phase power	MP08AT93
MP08BT73		7.2	0.8	B型(手动单作用) TypeB:ManualValve(single-acting)	进程/回程 Input/output		25	4.5	0.7		MP08BT93
MP08CT73		7.2	0.8	C型(电磁阀单作用) TypeC:Solenoid Valve(single-acting)	进程/锁定/回程 Input/lock/output		25	4.5	0.7		MP08CT93
MP08DT73		7.2	0.8	D型(电磁阀单作用不保压) TypeD:Solenoid Valve(single-acting)	进程/回程 Input/output		25	4.5	0.7		MP08DT93
MP08HT73		5.5	0.8	H型(电磁阀双作用) TypeH:Solenoid Valve(double-acting)	进程/锁定/回程 Input/lock/output		25	4.5	0.7		MP08HT93
MP13AT73		5.5	0.8	A型(手动双作用) TypeA:ManualValve(double-acting)	进程/锁定/回程 Input/lock/output	17L/13L	26	4.5	0.7		MP13AT93
MP13BT73		7.2	0.8	B型(手动单作用) TypeB:ManualValve(single-acting)	进程/回程 Input/output		26	4.5	0.7		MP13BT93
MP13CT73		7.2	0.8	C型(电磁阀单作用) TypeC:Solenoid Valve(single-acting)	进程/锁定/回程 Input/lock/output		26	4.5	0.7		MP13CT93
MP13DT73		7.2	0.8	D型(电磁阀单作用不保压) TypeD:Solenoid Valve(single-acting)	进程/回程 Input/output		26	4.5	0.7		MP13DT93
MP13HT73		5.5	0.8	H型(电磁阀双作用) TypeH:Solenoid Valve(double-acting)	进程/锁定/回程 Input/lock/output		26	4.5	0.7		MP13HT93
MP18AT73		5.5	0.8	A型(手动双作用) TypeA:ManualValve(double-acting)	进程/锁定/回程 Input/lock/output	20L/18L	27	4.5	0.7		MP18AT93
MP18BT73		7.2	0.8	B型(手动单作用) TypeB:ManualValve(single-acting)	进程/回程 Input/output		27	4.5	0.7		MP18BT93
MP18CT73		7.2	0.8	C型(电磁阀单作用) TypeC:Solenoid Valve(single-acting)	进程/锁定/回程 Input/lock/output		27	4.5	0.7		MP18CT93
MP18DT73		7.2	0.8	D型(电磁阀单作用不保压) TypeD:Solenoid Valve(single-acting)	进程/回程 Input/output		27	4.5	0.7		MP18DT93
MP18HT73		5.5	0.8	H型(电磁阀双作用) TypeH:Solenoid Valve(double-acting)	进程/锁定/回程 Input/lock/output		27	4.5	0.7		MP18HT93
MP24AT73		5.5	0.8	A型(手动双作用) TypeA:ManualValve(double-acting)	进程/锁定/回程 Input/lock/output	27L/24L	29	4.5	0.7		MP24AT93
MP24BT73		7.2	0.8	B型(手动单作用) TypeB:ManualValve(single-acting)	进程/回程 Input/output		29	4.5	0.7		MP24BT93
MP24CT73		7.2	0.8	C型(电磁阀单作用) TypeC:Solenoid Valve(single-acting)	进程/锁定/回程 Input/lock/output		29	4.5	0.7		MP24CT93
MP24DT73		7.2	0.8	D型(电磁阀单作用不保压) TypeD:Solenoid Valve(single-acting)	进程/回程 Input/output		29	4.5	0.7		MP24DT93
MP24HT73		5.5	0.8	H型(电磁阀双作用) TypeH:Solenoid Valve(double-acting)	进程/锁定/回程 Input/lock/output		29	4.5	0.7		MP24HT93
MP32AT73	5.5	0.8	A型(手动双作用) TypeA:ManualValve(double-acting)	进程/锁定/回程 Input/lock/output	40L/32L	33	4.5	0.7	MP32AT93		
MP32BT73	7.2	0.8	B型(手动单作用) TypeB:ManualValve(single-acting)	进程/回程 Input/output		33	4.5	0.7	MP32BT93		
MP32CT73	7.2	0.8	C型(电磁阀单作用) TypeC:Solenoid Valve(single-acting)	进程/锁定/回程 Input/lock/output		33	4.5	0.7	MP32CT93		
MP32DT73	7.2	0.8	D型(电磁阀单作用不保压) TypeD:Solenoid Valve(single-acting)	进程/回程 Input/output		33	4.5	0.7	MP32DT93		
MP32HT73	5.5	0.8	H型(电磁阀双作用) TypeH:Solenoid Valve(double-acting)	进程/锁定/回程 Input/lock/output		33	4.5	0.7	MP32HT93		
MP56AT73	5.5	0.8	A型(手动双作用) TypeA:ManualValve(double-acting)	进程/锁定/回程 Input/lock/output	64L/56L	37	4.5	0.7	MP56AT93		
MP56BT73	7.2	0.8	B型(手动单作用) TypeB:ManualValve(single-acting)	进程/回程 Input/output		37	4.5	0.7	MP56BT93		
MP56CT73	7.2	0.8	C型(电磁阀单作用) TypeC:Solenoid Valve(single-acting)	进程/锁定/回程 Input/lock/output		37	4.5	0.7	MP56CT93		
MP56DT73	7.2	0.8	D型(电磁阀单作用不保压) TypeD:Solenoid Valve(single-acting)	进程/回程 Input/output		37	4.5	0.7	MP56DT93		
MP56HT73	5.5	0.8	H型(电磁阀双作用) TypeH:Solenoid Valve(double-acting)	进程/锁定/回程 Input/lock/output		37	4.5	0.7	MP56HT93		

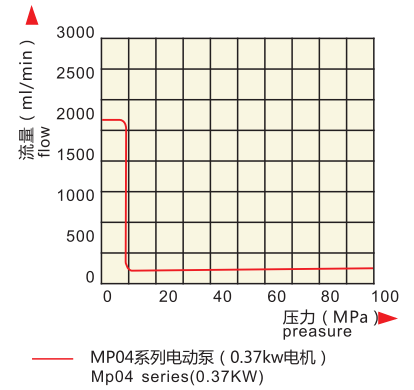
## MP系列电动泵外形尺寸及流量图

MP 04系列  
油箱容积6L, 可用油量4L。配备0.37KW电机, 可换装A、B、C型阀块。

Mp04 series  
6L tank and 4L available, use 0.37KW power and type A/B/C valve.

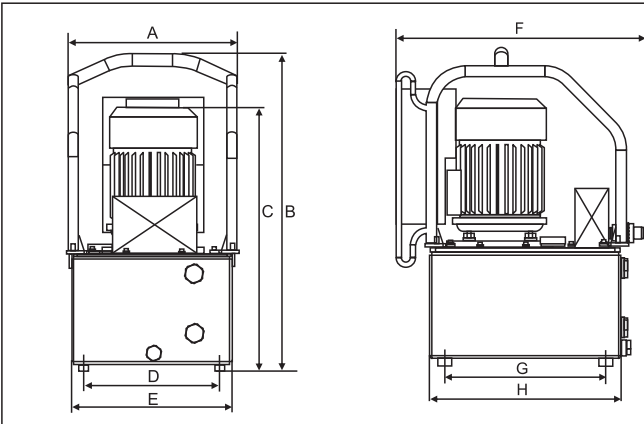


- A 254mm
- B 430mm
- C 353mm
- D 200mm
- E 240mm
- F 377mm
- G 244mm
- H 290mm

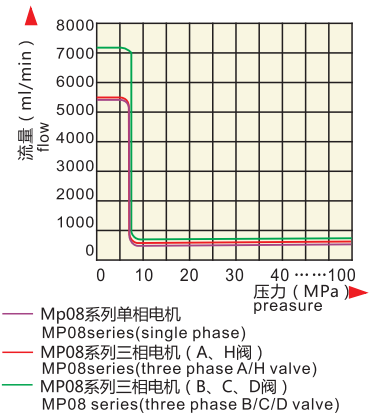


MP 08系列  
油箱容积10L, 可用油量8L。配备0.37KW&1.1KW电机, 可换装A、B、C、D、H型阀块。

MP08 series  
10L tank and 8L available, use 0.37KW&1.1KW power and type A/B/C/D/H valve.

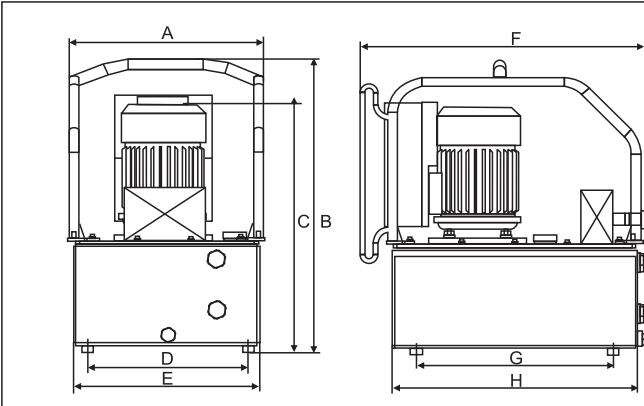


- A 254mm
- B 480mm
- C 403mm
- D 200mm
- E 240mm
- F 379mm
- G 244mm
- H 299mm

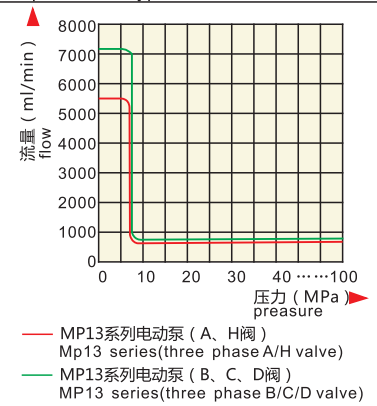


MP 13系列  
油箱容积17L, 可用油量13L。配备1.1KW电机, 可换装A、B、C、D、H型阀块。

MP13 series  
17L tank and 13L available, use 1.1KW power and type A/B/C/D/H valve.

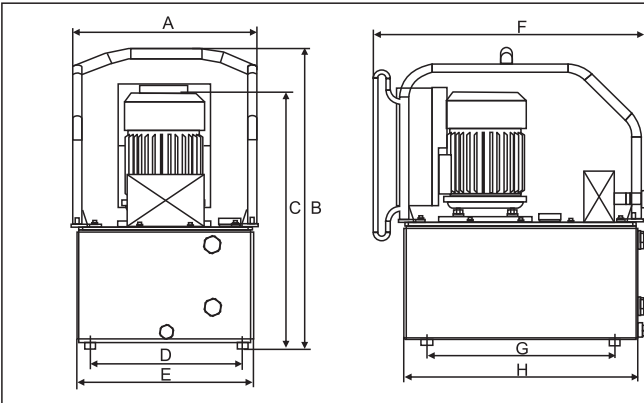


- A 314mm
- B 480mm
- C 405mm
- D 260mm
- E 300mm
- F 463mm
- G 320mm
- H 400mm

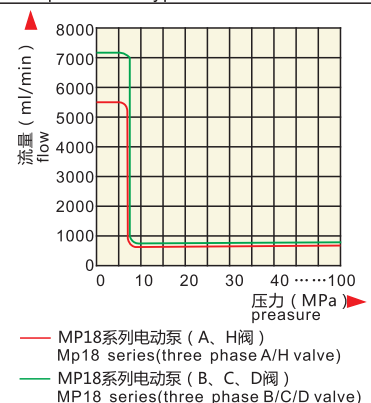


MP 18系列  
油箱容积20L, 可用油量18L。配备1.1KW电机, 可换装A、B、C、D、H型阀块。

MP18 series  
20L tank and 18L available, use 1.1KW power and type A/B/C/D/H valve.

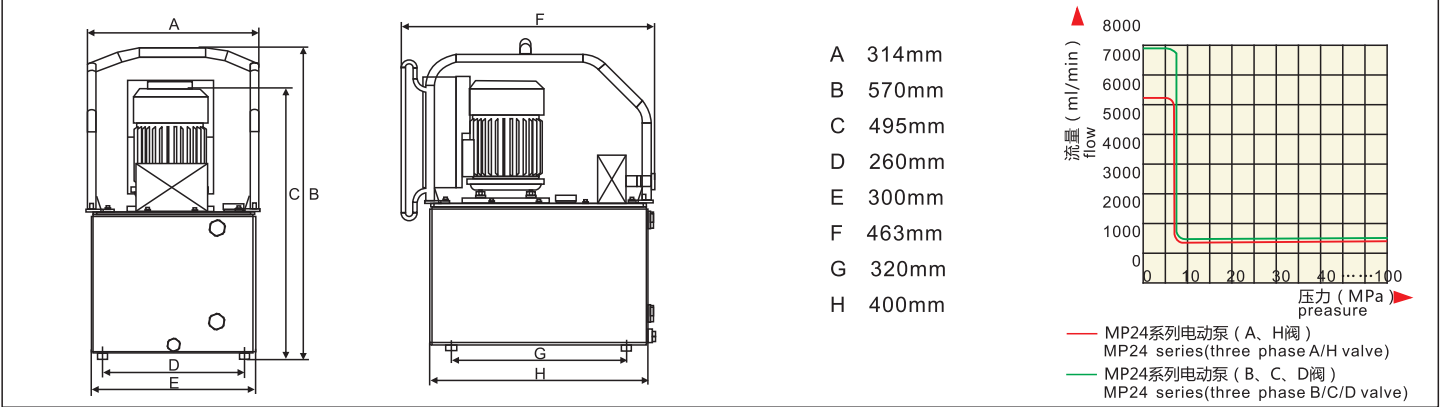


- A 314mm
- B 510mm
- C 435mm
- D 260mm
- E 300mm
- F 463mm
- G 320mm
- H 400mm



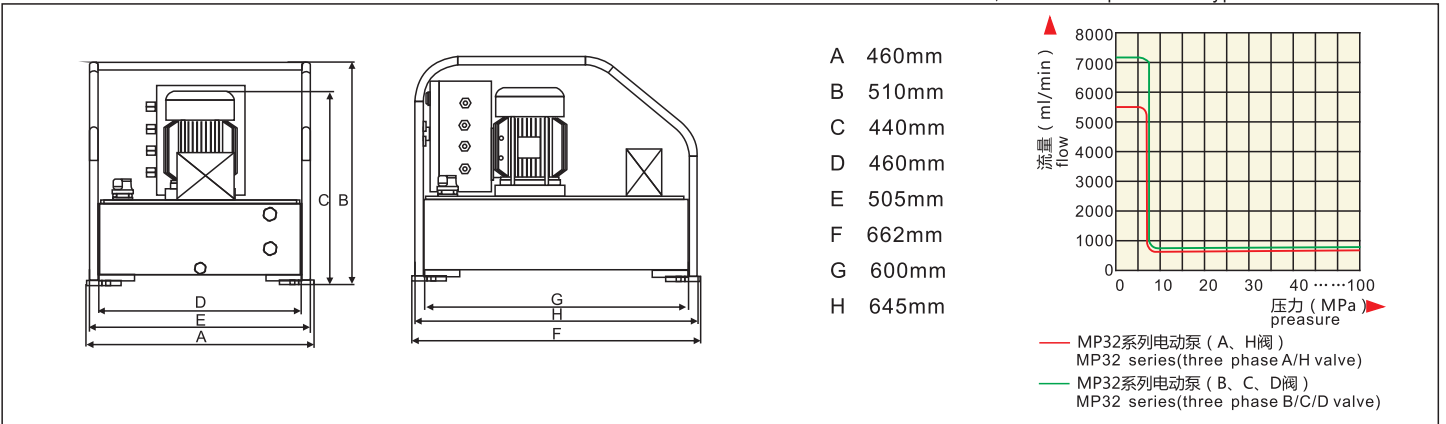
MP 24系列  
油箱容积27L, 可用油量24L。配备1.1KW电机, 可换装A、B、C、D、H型阀块。

MP24 series  
27L tank and 24L available, use 1.1KW power and type A/B/C/D/H valve.



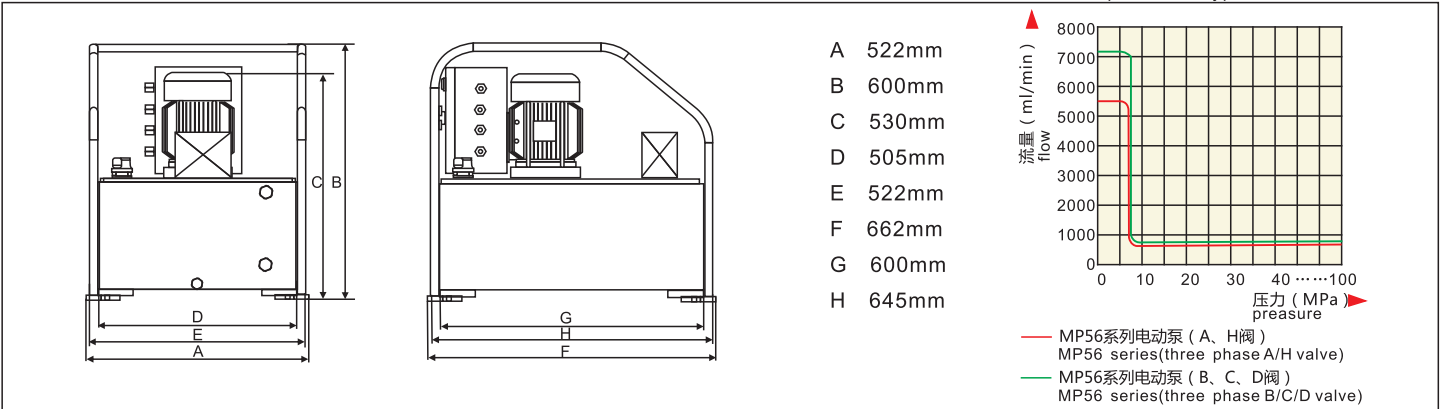
MP 32系列  
油箱容积40L, 可用油量32L。配备1.1KW电机, 可换装A、B、C、D、H型阀块。

MP32 series  
40L tank and 32L available, use 1.1KW power and type A/B/C/D/H valve.



MP 56系列  
油箱容积64L, 可用油量56L。配备1.1KW电机, 可换装A、B、C、D、H型阀块。

MP56 series  
64L tank and 56L available, use 1.1KW power and type A/B/C/D/H valve.



## 基本功能介绍

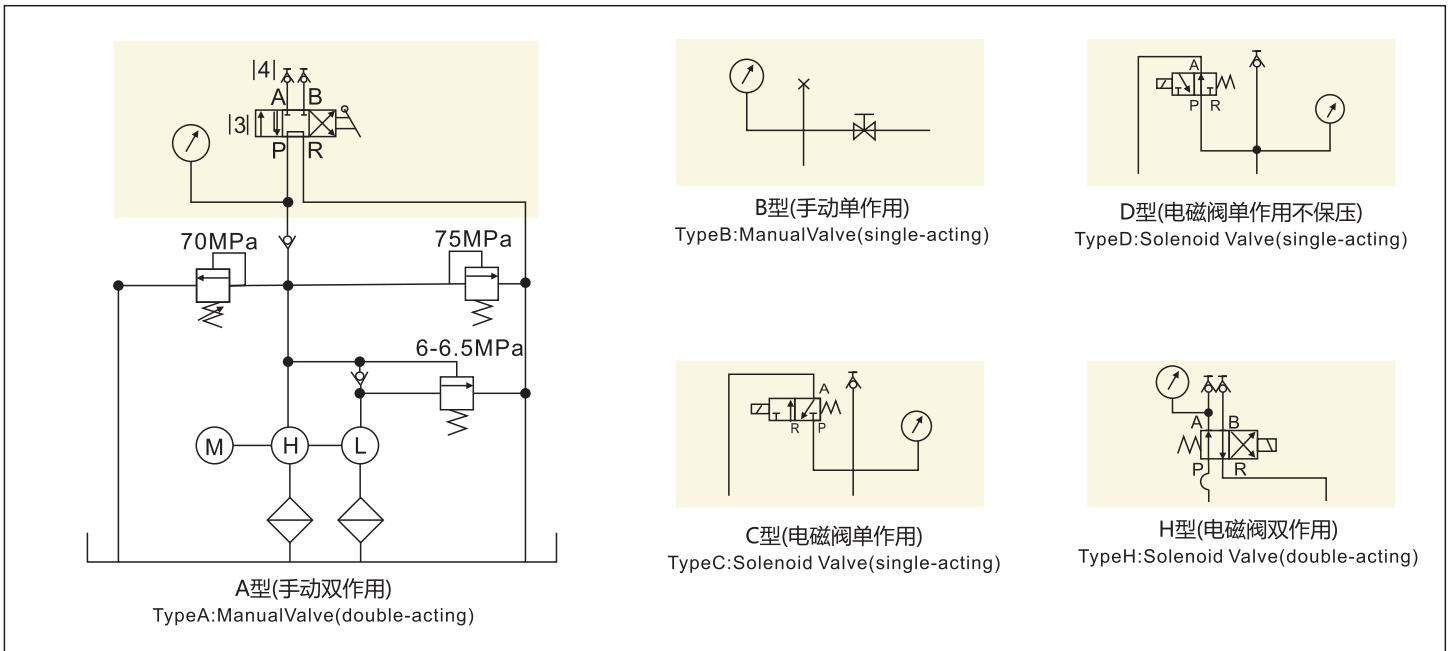
- A: 三位四通手动换向阀操作双作用油缸，迅速响应，可以让油缸活塞瞬间停止并长时间保持压力。
- B: 二位二通手动截止控制单作用油缸的行程，操作简单，迅速响应，并能长时间保持压力。
- C: 电磁阀换向操作单作用油缸，迅速响应，可以让油缸活塞瞬间停止并长时间保持压力。
- D: 实现一个按钮控制油泵的出油、回油。不保压，实现停泵回油功能。
- H: 三位四通电磁阀操作双作用油缸，迅速响应，适合间断性操作，可以让油缸活塞瞬间停止并长时间保持压力。

## Introduction To Basic Functions

- A: By the manual valve to operate the double acting tank, it responses quickly, and the reservoir piston will stop at once and keep the pressure for long period.
- B: By the manual valve to operate the single acting tank, easy control, responses quickly, and keep the pressure for long period.
- C: By the solenoid valve to operate the single acting tank, easy control, responses quickly, and keep the pressure for long period.
- D: Press a button on the solenoid valve to control the outputting and inputting oil of the oil pump. No pressure, realize the stop pump and return oil function.
- H: By the solenoid valve to operate the double acting tank, it responses quickly, and the reservoir piston will stop at once and keep the pressure for long period.

## MP系列电动泵阀块置换油路图

## MP series pump valve block replacemen circuit diagram





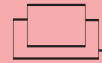
## SMC 机械式液压油缸

- 扁平设计适用于窄小空间作业需求。
- 重力回缩。
- 升降高度可精确微调,精度达0.01mm。
- 扬程超载时,具泄油警告装置。

### High Pressure Single-Acting, Low Height, Flat Cylinder

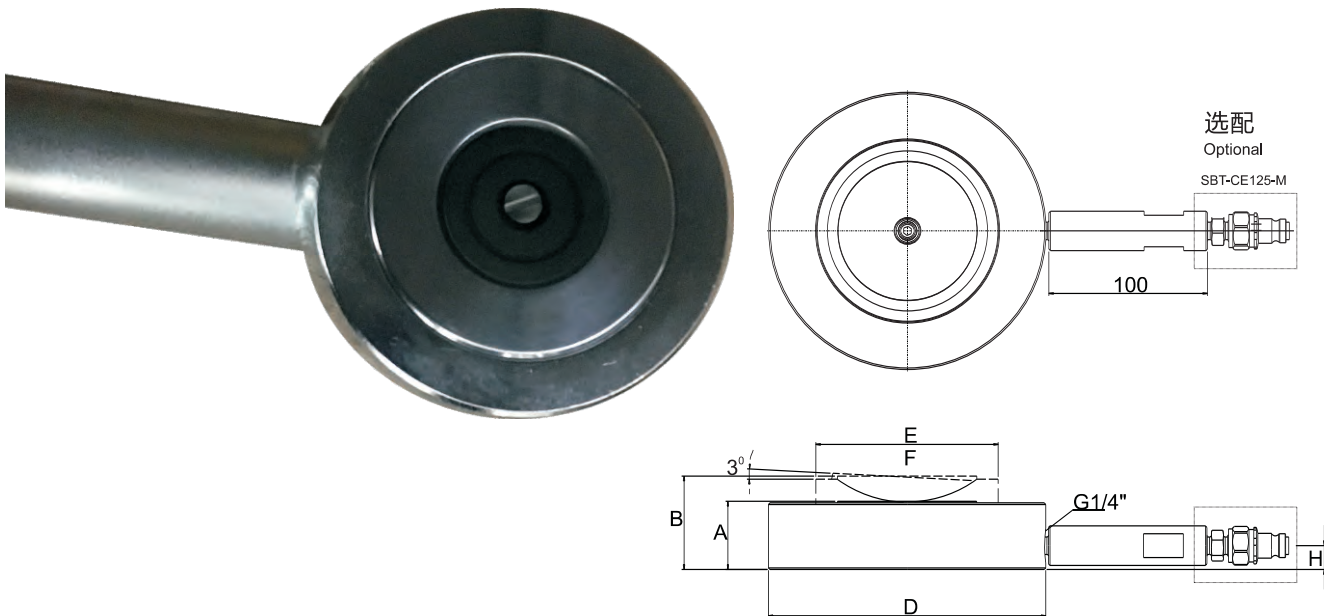
- ※ Compact and flat design for use where in a narrow space.
- ※ Single-Acting, load return.
- ※ Rising and retracting height can do spinner control precisely and its accuracy is up to 0.01mm.
- ※ When the piston is protruded over stroke, the oil leaks.

**SMC**  
Series



Capacity:  
**5-30 ton**

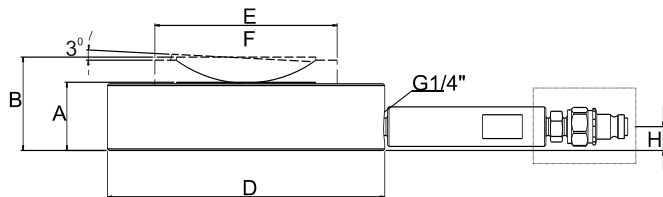
Stroke:  
**5-25 mm**



选配  
Optional

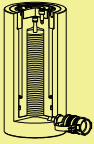
SBT-CE125-M

100



型号 Model Number	能力 Cylinder Capacity (Ton)	扬程 Stroke (mm)	受压面积 Eff. Area (cm <sup>2</sup> )	本身高 Collapsed Height A(mm)	伸长总高 Extended Height B (mm)	外径 O.D D(mm)	最小长度 Min Length E (mm)	最大长度 Max Length F(mm)	重量 Weight (kg)
SMC0525	5	25	8.02	52	77	52	199	279	1.5
SMC1025	10	25	13.85	54	79	62	240	351	2.2
SMC2025	20	5	28.27	35	40	84	244	295	1.9
SMC3025	30	5	38.49	36	41	95	243	323	2.3
SMC5025	50	5	66.48	40	45	120	299	310	3.7

## S Series



Capacity:  
**10-200 ton**

Stroke:  
**25-150mm**

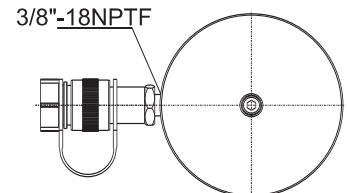
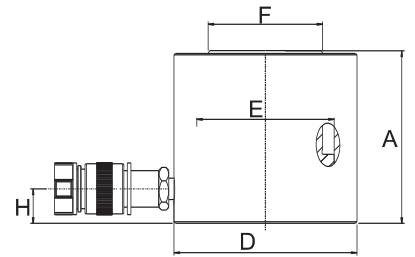
Maximum Operating Pressure:  
**700 bar**

## S 液压单动，标准型千斤顶

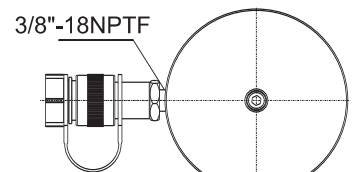
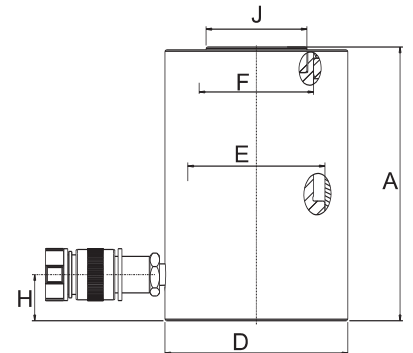
- 可360度全方位使用设计。
- 主轴及液压缸内壁硬铬处理耐磨、抗腐蚀；并能增加密封性及使用寿命。
- 强力弹簧加速主轴回缩速度。
- 特殊软质环设计，防止主轴偏心荷载；避免磨损刮伤油缸。
- 防尘环减少污染物附着。
- 上螺帽保护主轴超扬升。
- 表面粉体涂装美观抗腐蚀、防锈。
- 各型号均含SQB-3/8UF快速接头及防尘盖。

### Single-Acting, General Cylinders

- ※ Designed for use in all positions.
- ※ Hard chrome plated plunger and inner of barrel resists wear and corrosion, it also be more closed and extending cylinder life.
- ※ Maximum sized springs speed piston return and increase spring life.
- ※ Special soft ring reduces wear caused by off-center loads.
- ※ Plunger wiper reduces contaminant.
- ※ Stop ring for piston blow-out protection.
- ※ Powder coat finish for increased corrosion resistance and antirust.
- ※ All cylinders are equipped with SQB-3/8UF female coupler & dust cap.



适用S系列 扬程25mm  
Stroke 25mm model.



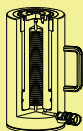
适用S系列 扬程50mm以上  
Stroke above to 50mm model.

	焊提把 Weldable		活动提把 Removable strap handles
	吊环螺栓 Eyebolt		螺牙式活动提把 Thread

提把型式 Handle type
(S): 标准配件 standard equipped
(O): 选配 option
● 焊提把 Weldable
★ 活动提把 Eyebolt
▲ 吊环螺栓 Removable strap handles
■ 螺牙式活动提把 Thread

提把型式 Handle type	型号 Model Number	外部尺寸 Outer Dimension											重量 Weight (kg)
		能力 Cylinder Capacity ton (kN)	扬程 Stroke (mm)	受压面积 Effective Area (cm <sup>2</sup> )	总油量 Oil Capacity (cm <sup>3</sup> )	本身高 Collapsed Height A (mm)	伸长总高 Extended Height (mm)	外径 Outside Dia. D (mm)	内径 Cylinder Bore Dia. E (mm)	主轴直径 Plunger Dia. F (mm)	底部前进油孔位置 Base to Adv. Port H (mm)	垫块直径 Saddle Dia. J (mm)	
		(O) (S)	(mm)	(cm <sup>2</sup> )	(cm <sup>3</sup> )	A (mm)	(mm)	D (mm)	E (mm)	F (mm)	H (mm)	J (mm)	
	S10-25	10 (101)	25.0	14.46	36.1	80.0	105.0	70.0	42.93	38.1	19.5	—	2.4
	S10-50		50.0	14.46	72.3	130.0	180.0	57.0	42.93	38.1	19.5	—	2.5
	S10-75		75.0	14.46	108.4	155.0	230.0	57.0	42.93	38.1	19.5	35	3.1
	S10-100		100.0	14.46	144.6	180.0	280.0	57.0	42.93	38.1	19.5	35	3.4
	S10-125		125.0	14.46	180.7	205.0	330.0	57.0	42.93	38.1	19.5	35	4.0
	S10-150		150.0	14.46	216.9	230.0	380.0	57.0	42.93	38.1	19.5	35	4.2
	S20-25	20 (198)	25.0	28.26	70.7	80.0	105.0	90.0	60.00	50.00	17.0	—	3.7
●	S20-50		50.0	28.26	141.3	135.0	185.0	79.0	60.00	50.00	22.0	—	4.9
●	S20-75		75.0	28.26	212.0	160.0	235.0	79.0	60.00	50.00	22.0	40	5.6
●	S20-100		100.0	28.26	282.6	185.0	285.0	79.0	60.00	50.00	22.0	40	6.3
●	S20-125		125.0	28.26	353.3	210.0	335.0	79.0	60.00	50.00	22.0	40	7.0
●	S20-150		150.0	28.26	423.9	235.0	385.0	79.0	60.00	50.00	22.0	40	7.7
	S30-25	30 (294)	25.0	42.00	105.0	85.0	110.0	99.0	73.15	57.15	19.0	—	5.0
	S30-40		40.0	42.00	210.0	85.0	125.0	99.0	73.15	57.15	22.5	—	7.4
●	S30-50		50.0	42.00	210.0	145.0	195.0	99.0	73.15	57.15	22.5	—	7.6
●	S30-75		75.0	42.00	315.0	170.0	245.0	99.0	73.15	57.15	22.5	49.5	7.8
●	S30-100		100.0	42.00	420.0	195.0	295.0	99.0	73.15	57.15	22.5	49.5	8.9
●	S30-125		125.0	42.00	525.0	220.0	345.0	99.0	73.15	57.15	22.5	49.5	10.0
●	S30-150		150.0	42.00	630.0	245.0	395.0	99.0	73.15	57.15	22.5	49.5	11.0
●	S50-25	50 (498)	25.0	71.21	178.0	95.0	120.0	127.0	95.25	79.50	24.0	—	8.8
●	S50-35		35.0	71.21	356.0	85.0	120.0	127.0	95.25	79.50	24.0	—	9.5
●	S50-50		50.0	71.21	356.0	120.0	170.0	127.0	95.25	79.50	24.0	—	10.5
●	S50-75		75.0	71.21	534.0	190.0	265.0	127.0	95.25	79.50	32.0	71.5	16.8
●	S50-100		100.0	71.21	712.0	215.0	315.0	127.0	95.25	79.50	32.0	71.5	18.2
●	S50-125		125.0	71.21	890.1	240.0	365.0	127.0	95.25	79.50	32.0	71.5	19.9
●	S50-150		150.0	71.21	1068.1	265.0	415.0	127.0	95.25	79.50	32.0	71.5	21.4
▲	● S100-25	100 (933)	25.0	133.27	333.1	100.0	125.0	177.0	130.30	104.90	20.0	—	16.9
▲	● S100-50		50.0	133.27	666.3	160.0	210.0	177.0	130.30	104.90	30.0	84	26.8
▲	● S100-100		100.0	133.27	1332.7	204.0	304.0	177.0	130.30	104.90	30.0	84	36.8
▲	● S100-125		125.0	133.27	1665.8	235.0	360.0	177.0	130.30	104.90	30.0	84	40.6
▲	● S100-150		150.0	133.27	1999.0	260.0	410.0	177.0	130.30	104.90	30.0	84	44.3
▲	★ S150-50	150 (1407)	50.0	200.96	1004.8	200.0	250.0	215.0	160.00	115.00	50.0	99	50.2
▲	★ S150-100		100.0	200.96	2009.6	250.0	350.0	215.0	160.00	115.00	50.0	99	60.0
▲	★ S150-150		150.0	200.96	3014.4	300.0	450.0	215.0	160.00	115.00	50.0	99	68.9
▲	★ S200-50	200 (1984)	50.0	283.38	1416.9	200.0	250.0	255.0	190.00	135.00	50.0	115	71.6
▲	★ S200-100		100.0	283.38	2833.0	250.0	350.0	255.0	190.00	135.00	50.0	115	85.0
▲	★ S200-150		150.0	283.38	4250.7	300.0	450.0	255.0	190.00	135.00	50.0	115	98.5

## RAC Series



Capacity:  
**20-150 ton**

Stroke:  
**50-200 mm**

Maximum Operating Pressure:  
**700 bar**

## RAC 液压单动，铝合金千斤顶

- 铝合设计，质轻易携带。
- 7075-T6铝合金材质,能以最小重量承最大能力。
- 垫块及缸底垫块预防荷重的危险。
- 主轴及缸壁内外阳极处理防损耐磨且延长使用寿命。
- 强力弹簧加速主轴回缩速度。
- 特殊软质环设计，防止主轴偏心荷载；避免磨损刮伤油缸。
- 多层油封设计，预防金属材质间互相摩擦，防止侧向荷载受损。
- 上螺帽保护主轴超扬升。
- 各型号均含SQB-3/8UF快速接头及防尘盖。

### Single-Acting, Aluminum Cylinders

- ※ Lightweight, aluminum design for maximum portability.
- ※ 7075-T6 Aluminum alloy components for maximum strength and minimum weight.
- ※ Steel base plate and saddle for protection against piston rod damage.
- ※ Anodizing treatment plunger, surfaces and inner of barrel resists damage and extends cylinder life.
- ※ Maximum sized springs speed piston return and increase spring life.
- ※ Special soft ring reduces wear caused by off-center loads.
- ※ Composite bearings prevent metal-to-metal contact, increasing cylinder life and resistance to side-load.
- ※ Stop ring for piston blow-out protection.
- ※ All cylinders are equipped with SQB-3/8UF female coupler & dust cap.

### 垫块/鞍座 Saddle

RAC-系列均配有高硬度可移除式沟槽垫块于起重时具防滑作用。偏心起重时请选用倾斜垫块。  
RAC-Series are equipped with hardened removable "Ribbed saddles" to prevent slippage during jacking.  
For off-centre loading application, see optional tilting saddle.



### 缸底垫块 Steel Base Plate

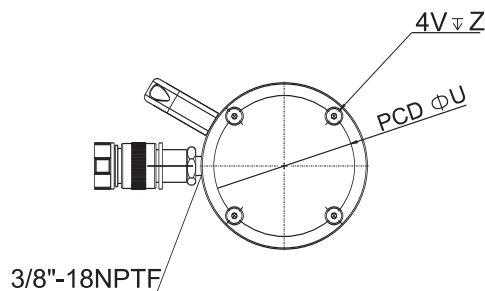
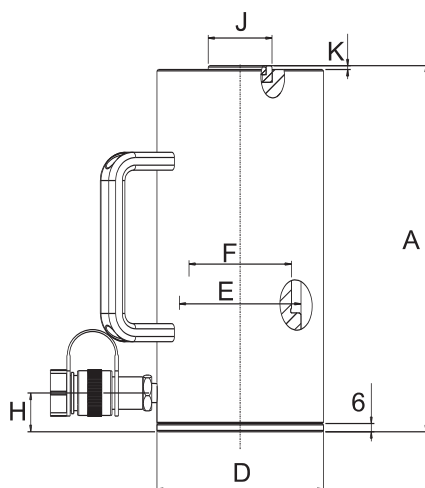
- 缸底垫块作用于保护油压缸缸底座免于损坏；不可任意移除。
  - 千万不要使用这些螺孔来安装其他配件或设备在油压缸上。
- ※ Do not remove steel base plate in order to protect the cylinder base.  
※ No attachment to be used on base holes of the Aluminum cylinders.



### 铝VS钢性质说明

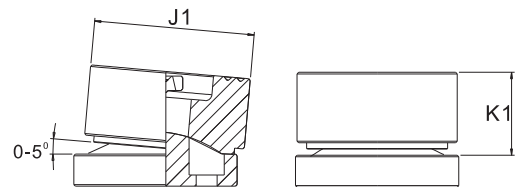
#### Aluminum vs. Steel characteristic

- 铝和钢材的不同，在于铝具较低的金屬疲劳。意即铝合金油压缸不适用于高重复性使用。
- ※ Due to different steel & Aluminum characteristics, it is strongly recommended not to be used for high-cycle applications



提把型式 Handle type	型号 Model Number
(S)	RAC-202
■	RAC-204
■	RAC-206
■	RAC-302
■	RAC-304
■	RAC-306
■	RAC-502
■	RAC-504
■	RAC-506
■	RAC-1004
■	RAC-1006
■	RAC-1008
■	RAC-1506

提把型式 Handle type
(S): 标准配件 standard equipped
(O): 选配 option
● 焊提把 Weldable
★ 活动提把Eyebolt
▲ 吊环螺栓Removable strap handles
■ 螺牙式活动提把 Thread



缸底垫块底座螺孔 Steel Base Plate Mounting Holes

型号-能力 Cylinder Model/ Capacity (ton)	底座孔距 Bolt Circle U (mm)	底座螺纹 Thread V (mm)	螺纹深度 Thread Depth Z (mm)
RAC-20	70.0	M6	12
RAC-30	80.0	M6	12
RAC-50	110.0	M6	12
RAC-100	160.0	M6	12
RAC-150	200.0	M6	12

选配螺栓式倾斜垫块尺寸 Optional Bolt Tilt Saddle Dimensions (mm)

油压缸 型号-能力 Cylinder Model/Cap. (ton)	垫块型号 Model Number	垫块尺寸 Saddle Diameter J1	垫块 突出高度 Saddle Protrusion from Base K1
RAC-50	XKCATRAC-50	50.0	25.9
RAC-100	XKCATRAC-100	91.2	33.0
RAC-150	XKCATRAC-150	118.1	37.0

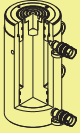
\*含缸底垫块高6mm \*Including Base Plate Height of 6mm.

\*4缸底垫块螺栓：M6×1.0×0.24 \*4 base plate bolts:M6X1.0X0.24

外部尺寸 Outer Dimension

能力 Cylinder Capacity ton (kN)	扬程 Stroke (mm)	受压面积 Cylinder Effective Area (cm <sup>2</sup> )	总油量 Oil Capacity (cm <sup>3</sup> )	本身高 Collapsed Height A (mm)	伸长总高 Extended Height B (mm)	外径 Outside Dia. D (mm)	内径 Cylinder Bore Diam. E (mm)	主轴 直径 Plunger Dia. F (mm)	底部前进 油孔位置 Base to Adv. Port H (mm)	垫块 直径 Saddle Dia. J (mm)	凸出高度 Piston Rod Protrusion K (mm)	重量 Weight (kg)
20 (218)	50	31.2	156	174	224	85	63	50	27	40	3	3.6
	100	31.2	312	224	324	85	63	50	27	40	3	4.1
	150	31.2	468	274	424	85	63	50	27	40	3	4.6
30 (309)	50	44.2	221	181	231	100	75	60	33	40	3	4.5
	100	44.2	442	231	331	100	75	60	33	40	3	5.2
	150	44.2	663	281	431	100	75	60	33	40	3	5.9
50 (496)	50	70.9	354	186	236	130	95	80	30	50	3	8.5
	100	70.9	709	236	336	130	95	80	30	50	3	9.8
	150	70.9	1063	286	436	130	95	80	30	50	3	11.1
100 (1002)	100	143.1	1431	271	371	188	135	110	46	94	3	19.6
	150	143.1	2147	321	471	188	135	110	46	94	3	21.9
	200	143.1	2863	371	571	188	135	110	46	94	3	24.2
150 (1589)	150	227.0	3405	343	493	230	170	140	51	113	3	33.3

## RAR Series



Capacity:  
**50-150 tons**

Stroke:  
**50-150 mm**

Maximum Operating Pressure:  
**700 bar**

## RAR 液压双动，铝合金千斤顶

- 铝合设计，质轻易携带。
- 7075-T6铝合金材质，能以最小重量承最大能力。
- 垫块及缸底垫块预防荷重的危险。
- 主轴及缸壁内外阳极处理防损耐磨且延长使用寿命。
- 内置安全泄压阀防止超压损坏。
- 多层油封设计，预防金属材质间互相摩擦，防止侧向荷载受损。
- 上螺帽保护主轴超扬升。
- 各型号均含SQB-3/8UF快速接头及防尘盖。
- 外表镭射刻字。

### Double-Acting, Aluminum Cylinders

- ※Lightweight, aluminum design for maximum portability.
- ※7075-T6 Aluminum alloy components for maximum strength and minimum weight.
- ※Steel base plate and saddle for protection against load-induced damage.
- ※Anodizing treatment plunger, surfaces and inner of barrel resists damage and extends cylinder life.
- ※Built-in safety valves protect against over pressurizing.
- ※Composite bearings prevent metal-to-metal contact, increasing cylinder life and resistance to side-load.
- ※Stop ring for piston blow-out protection.
- ※Removable hardened saddle, handle and steel baseplate, which can be removed to use in limit space.
- ※SQB-3/8UF coupler and dust cap are included on all models.
- ※Laser carve on surface.

### 垫块/鞍座 Saddle

RAR-系列均配有高硬度可移除式沟槽垫块于起重时具防滑作用。偏心起重时请选用倾斜垫块。

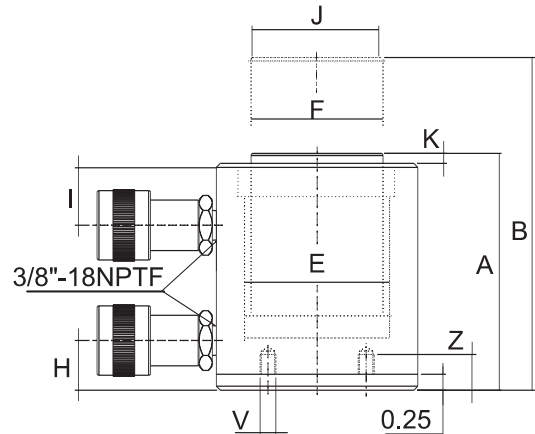
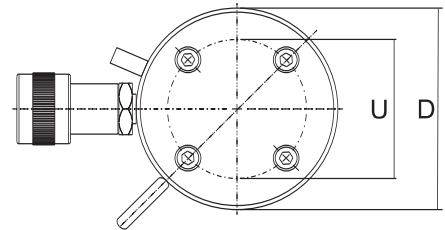
RAR-Series are equipped with hardened removable "Ribbed saddles" to prevent slippage during jacking. For off-centre loading application, see optional tilting saddle.



### 缸底垫块 Steel Base Plate

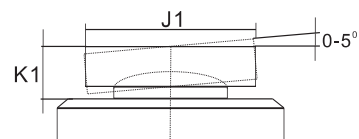
- 缸底垫块作用于保护油压缸底座免于损坏；不可任意移除。
- 千万不要使用这些螺孔来安装其他配件或设备在油压缸上。

- ※ Do not remove steel base plate in order to protect the cylinder base.
- ※ No attachment to be used on base holes of the Aluminum cylinders.



提把型式 Handle type
(S) : 标准配件 standard equipped
(O) : 选配 option
● 焊提把 Weldable
★ 活动提把 Eyebolt
▲ 吊环螺栓 Removable strap handles
■ 螺牙式活动提把 Thread

提把型式 Handle type	型号 Model Number	能力 Cylinder Capacity	扬程 Stroke	最大出力 Maximum Cylinder Capacity		受压面积 Cylinder Effective Area		使用油量 Oil Capacity	
				推 push	拉 pull	推 push	拉 pull	推 push	拉 pull
(S)		ton (kN)	(mm)	(kN)		(cm <sup>2</sup> )		(cm <sup>3</sup> )	
■	RAR-502	50 (496)	50	496	187	70.9	26.7	354	134
■	RAR-504		100	496	187	70.9	26.7	709	267
■	RAR-506		150	496	187	70.9	26.7	1063	401
■	RAR-1004	100 (1002)	100	1002	557	143.1	79.5	1431	795
■	RAR-1006		150	1002	557	143.1	79.5	2147	1193
■	RAR-1008		200	1002	557	143.1	79.5	2863	1590
■	RAR-1506	150(1589)	150	1589	924	227.0	132.0	3405	1980



缸底垫块底座螺孔 Steel Base Plate Mounting Holes

型号-能力 Cylinder Model/ Capacity (tons)	底座孔距 Bolt Circle U (mm)	底座螺纹 Thread V (mm)	螺纹深度 Thread Depth Z (mm)
RAR-50	110	M6	12
RAR-100	165	M6	12
RAR-150	200	M6	12

选配螺栓式倾斜垫块尺寸 Optional Bolt Tilt Saddle Dimensions (mm)

油压缸 型号-能力 Cylinder Model/ Cap. (tons)	垫块型号 Model Number	垫块尺寸 Saddle Diameter J1	垫块 突出高度 Saddle Protrusion from Base K1
RAR-50	XKCATRAC-50	50.0	25.9
RAR-100	XKCATRAC-100	91.2	33.0
RAR-150	XKCATRAC-150	118.1	37.0

\*含缸底垫块高0.25"

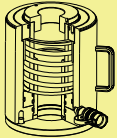
\*Including Base Plate Height of 0.25".

\*4缸底垫块螺栓: M6×1.0×0.24

\*4 base plate bolts: M6X1.0X0.24

本身高 Collapsed Height A (mm)	伸长总高 Extended Height B (mm)	外径 Outside Diam. D (mm)	内径 Cylinder Bore Diam. E (mm)	主轴直径 Plunger Diam. F (mm)	底部前进 油孔位置 Base to Adv. Port H (mm)	顶部回油 油孔位置 Top to Retract Port I (mm)	垫块直径 Saddle Diam. J (mm)	凸出高度 Saddle Protrusion from Plngr. K (mm)	重量 Weight (kg)
201	251	145	95	75	30	56	50	3	11.1
251	351	145	95	75	30	56	50	3	12.7
301	451	145	95	75	30	56	50	3	14.3
301	401	185	135	90	43	80	94	3	19.3
351	501	185	135	90	43	80	94	3	22.2
401	601	185	135	90	43	80	94	3	25.1
348	498	230	170	110	38	75	113	3	33.2

## RACH Series



Capacity:  
**20-100 ton**

Stroke:  
**50-250 mm**

Maximum Operating Pressure:  
**700 bar**

## RACH 液压单动中空, 铝合金千斤顶

- 铝合设计, 质轻易携带。
- 7075-T6铝合金材质,能以最小重量承最大能力。
- 垫块及缸底垫块预防荷重的危险。
- 主轴及缸壁内外阳极处理防损耐磨且延长使用寿命。
- 强力弹簧加速主轴回缩速度。
- 特殊软质环设计, 防止主轴偏心荷载; 避免磨耗刮伤油缸。
- 多层油封设计, 预防金属材质间互相摩擦, 防止侧向荷载受损。
- 上螺帽保护主轴超扬升。
- 各型号均含SQB-3/8UF快速接头及防尘盖。

### Single-Acting, Hollow Plunger Aluminum Cylinders

- ※ Lightweight, aluminum design for maximum portability.
- ※ 7075-T6 Aluminum alloy components for maximum strength and minimum weight.
- ※ Steel base plate and saddle for protection against piston rod damage.
- ※ Anodizing treatment plunger, surfaces and inner of barrel resists damage and extends cylinder life.
- ※ Maximum sized springs speed piston return and increase spring life.
- ※ Special soft ring reduces wear caused by off-center loads.
- ※ Composite bearings prevent metal-to-metal contact, increasing cylinder life and resistance to side-load.
- ※ Stop ring for piston blow-out protection.
- ※ All cylinders are equipped with SQB-3/8UF female coupler & dust cap.

### 垫块/鞍座 Saddle



RACH-系列均配有高硬度可移除式沟槽垫块于起重时具防滑作用。偏心起重时请选用倾斜垫块。

RACH-Series are equipped with hardened removable "Ribbed saddles" to prevent slippage during jacking. For off-centre loading application, see optional tilting saddle.

### 缸底垫块 Steel Base Plate



- 缸底垫块作用于保护油压缸底座免于损坏; 不可任意移除。
- 千万不要使用这些螺孔来安装其他配件或设备在油压缸上。

- ※ Do not remove steel base plate in order to protect the cylinder base.
- ※ No attachment to be used on base holes of the Aluminum cylinders.

### 铝VS钢性质说明

#### Aluminum vs. Steel characteristic



- 铝和钢材的不同, 在于铝具较低的金  
属疲劳。意即铝合金油压缸不适用于  
高重复性使用。
- ※ Due to different steel & Aluminum characteristics, it is strongly recommended not to be used for high-cycle applications

提把型式 Handle type
(S): 标准配件 standard equipped
(O): 选配 option
● 焊提把 Weldable
★ 活动提把 Eyebolt
▲ 吊环螺栓 Removable strap handles
■ 螺牙式活动提把 Thread

提把型式 Handle type	型号 Model Number
(S)	
■	RSACH-202
■	RSACH-206
■	RSACH-302
■	RSACH-306
■	RSACH-3010
■	RSACH-604
■	RSACH-606
■	RSACH-1003
■	RSACH-1006





缸底垫块底座螺孔 Steel Base Plate Mounting Holes

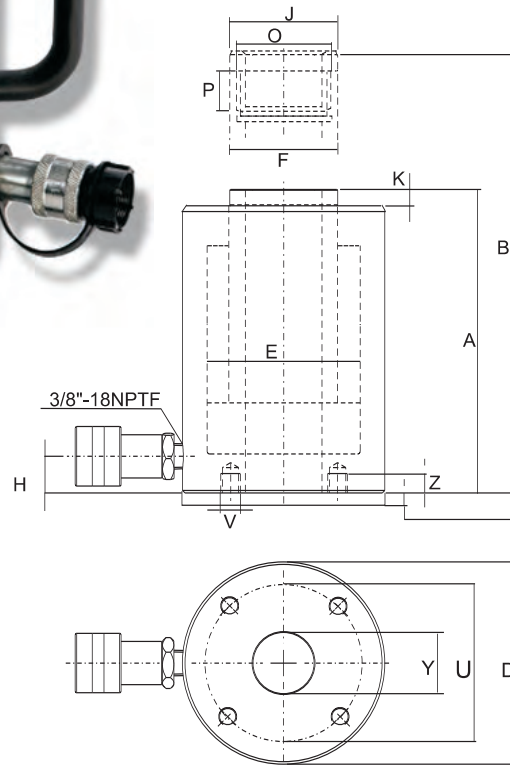
型号-能力 Cylmnder Model/ Capacity (ton)	底座孔距 Bolt Circle U (mm)	底座螺纹 Thread V (mm)	螺纹深度 Thread Depth Z (mm)
RACH-20	80.0	M6	12
RACH-30	110.0	M6	12
RACH-60	160.0	M6	12
RACH-100	230.0	M6	12

\*含缸底垫块高6mm

\*Including Base Plate Height of 6mm.

\*4缸底垫块螺栓：M6×1.0×0.24

\*4 base plate bolts:M6X1.0X0.24



Steel base plate :  
20-30tons serial : 10mm  
60tons serial : 12mm  
100tons serial : 16mm

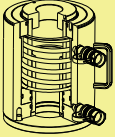
缸底垫块前底座螺孔图示

This drawing show the base mounting holes of barrel before setting steel base plate.

外部尺寸 Outer Dimension

能力 Cyl. Cap.	扬程 Stroke	受压面积 Cyl. Effective Area	使用 油量 Oil Cap.	本身高 Coll. Ht.	伸长 总高 Ext. Ht.	外径 Out. Diam.	内径 Cyl. Bore Diam.	主轴 直径 Plngr. Diam.	底部前进 油孔位置 Base to Advance Port	垫块 直径 Saddle Diam.	凸出高度 Saddle Protr. from Plngr.	中孔 直径 Center Hole Diam.	重量 Wt.
ton(kN)	(mm)	(cm <sup>2</sup> )	(cm <sup>3</sup> )	A (mm)	B (mm)	D (mm)	E (mm)	F (mm)	H (mm)	J (mm)	K (mm)	Y (mm)	(Kg)
20 (229)	50.0	32.7	163.7	188	238	100	75	55	29.0	55	10.0	27	5.2
	150.0	32.7	491.0	315	465	100	75	55	29.0	55	10.0	27	7.1
30 (358)	50.0	51.1	255.7	208	258	130	95	70	29.0	70	10.0	34	8.0
	150.0	51.1	767.0	333	483	130	95	70	29.0	70	10.0	34	11.2
	254.0	51.1	1298.9	457	711	130	95	70	29.0	70	10.0	34	13.7
60 (596)	100.0	84.7	847.7	315	415	180	130	100	61.2	100	12.0	54	19.5
	150.0	84.7	1271.5	380	530	180	130	100	61.2	100	12.0	54	22.8
100 (1157)	76.0	178.9	1360.0	307	383	250	182	145	51.0	145	14.0	79	44.0
	150.0	178.9	2684.0	391	541	250	182	145	51.0	145	14.0	79	54.5

## RARH Series



Capacity:  
**30-150 ton**

Stroke:  
**50-254 ton**

Maximum Operating Pressure:  
**700 bar**

## RARH 液压双动中空，铝合金千斤顶

- 铝合设计，质轻易携带。
- 7075-T6铝合金材质,能以最小重量承最大能力。
- 缸底垫块预防荷重的危险。
- 主轴及缸壁内外阳极处理防损耐磨且延长使用寿命。
- 多层油封设计，预防金属材质间互相摩擦，防止侧向荷载受损。
- 上螺帽保护主轴超扬升。
- 各型号均含SQB-3/8UF快速接头及防尘盖。

### Single-Acting, Hollow Plunger Aluminum Cylinders

- ※ Lightweight, aluminum design for maximum portability.
- ※ 7075-T6 Aluminum alloy components for maximum strength and minimum weight.
- ※ Steel base plate for protection against piston rod damage.
- ※ Anodizing treatment plunger, surfaces and inner of barrel resists damage and extends cylinder life.
- ※ Composite bearings prevent metal-to-metal contact, increasing cylinder life and resistance to side-load.
- ※ Stop ring for piston blow-out protection.
- ※ All cylinders are equipped with SQB-3/8UF female coupler & dust cap.

### 垫块/鞍座 Saddle



RARH-系列均配有高硬度可移除式沟槽垫块于起重时具防滑作用。偏心起重时请选用倾斜垫块。

RARH-Series are equipped with hardened removable "Ribbed saddles" to prevent slippage during jacking.

For off-centre loading application, see optional tilting saddle.

### 缸底垫块 Steel Base Plate



- 缸底垫块作用于保护油压缸底座免于损坏；不可任意移除。
- 千万不要使用这些螺孔来安装其他配件或设备在油压缸上。

※ Do not remove steel base plate in order to protect the cylinder base.

※ No attachment to be used on base holes of the Aluminum cylinders.

### 铝VS钢性质说明

#### Aluminum vs. Steel characteristic



- 铝和钢材的不同，在于铝具较低的金屬疲劳。意即铝合金油压缸不适用于高重复性使用。

※ Due to different steel & Aluminum characteristics, it is strongly recommended not to be used for high-cycle applications

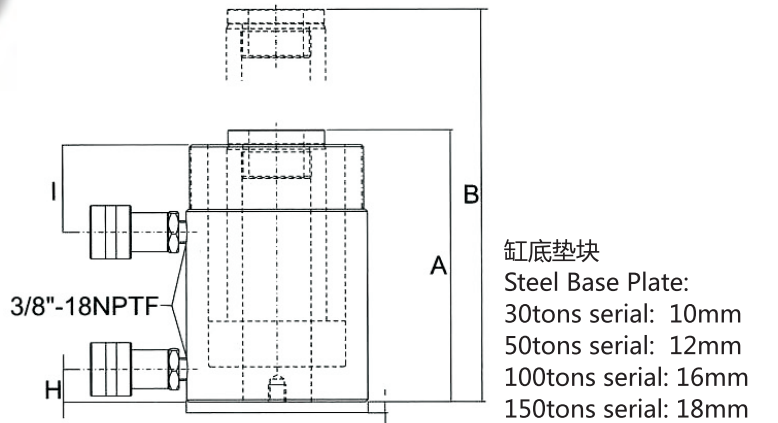
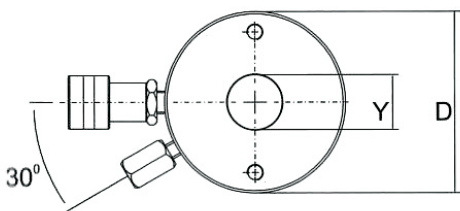
### 提把型式 Handle type

(S): 标准配件 standard equipped

(O): 选配 option

- 焊提把 Weldable
- ★ 活动提把 Eyebolt
- ▲ 吊环螺栓 Removable strap handles
- 螺牙式活动提把 Thread

提把型式 Handle type	型号 Model Number	能力 Cylinder Capacity	扬程 Stroke
		ton (kN)	(mm)
(S)			
■	RARH-302		50.00
■	RARH-306		152.00
■	RARH-3010		254.00
■	RARH-502		50.00
■	RARH-504		102.00
■	RARH-506		152.00
■	RARH-5010		254.00
■	RARH-1002		50.00
■	RARH-1004		102.00
■	RARH-1006		152.00
■	RARH-10010		254.00
■	RARH-1502		50.00
■	RARH-1506		152.00
■	RARH-15010		254.00



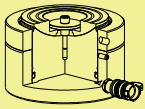
缸底垫块  
Steel Base Plate:  
30tons serial: 10mm  
50tons serial: 12mm  
100tons serial: 16mm  
150tons serial: 18mm

缸底垫块前底座螺孔图示

This drawing show the base mounting holes of barrel before setting steel base plate.

外部尺寸 Outer Dimension												
最大出力 Maximum Cylinder Capacity		受压面积 Cylinder Effective Area		使用油量 Oil Capacity		本身高 Collapsed Height	伸长总高 Extended Height	外径 Outside Diam.	底部前进 油孔位置 Base to Adv. Port	顶部回油 油孔位置 Top to Retract Port	中孔 直径 Center Hole Diam.	重量 Weight
推 push	拉 pull	推 push	拉 pull	推 push	拉 pull							
(kN)		(cm <sup>2</sup> )		(cm <sup>3</sup> )		A (mm)	B (mm)	D (mm)	H (mm)	I (mm)	Y (mm)	(kg)
287	147	41.0	21.0	235.2	106.6	177.8	228.6	127.0	44.45	44.45	38.1	9.08
287	147	41.0	21.0	705.5	319.8	279.4	431.8	127.0	44.45	44.45	38.1	12.71
287	147	41.0	21.0	1175.9	533.0	381.0	635.0	127.0	44.45	44.45	38.1	15.89
465	155	66.40	22.12	356.04	112.5	177.8	228.6	203.2	44.45	44.45	53.98	14.98
465	155	66.40	22.12	712.42	225.0	228.6	330.2	203.2	44.45	44.45	53.98	18.61
465	155	66.40	22.12	1068.6	337.5	279.4	431.8	203.2	44.45	44.45	53.98	22.25
465	155	66.40	22.12	1781.0	562.5	381.0	635.0	203.2	44.45	44.45	53.98	29.51
916	352	130.8	22.12	680.93	255.8	254.0	304.8	279.4	63.5	63.5	88.9	38.59
916	352	130.8	50.31	1361.9	511.7	304.8	406.4	279.4	63.5	63.5	88.9	42.22
916	352	130.8	50.31	2042.8	767.5	355.6	508.0	279.4	63.5	63.5	88.9	46.31
916	352	130.8	50.31	3388.2	1279.2	457.2	711.2	279.4	63.5	63.5	88.9	59.93
1421	406	203.0	58.05	1004.7	294.5	254.0	304.8	304.8	63.5	63.5	88.9	49.49
1421	406	203.0	58.05	3013.2	1371.1	355.6	508.0	304.8	63.5	63.5	88.9	59.93
1421	406	203.0	58.05	5023.3	1473.0	475.2	711.2	304.8	63.5	63.5	88.9	70.82

## CLP Series



Capacity:  
**60-520 ton**

Stroke:  
**45-50 mm**

Maximum Operating Pressure:  
**700 bar**

## CLP 液压单动，扁平锁帽千斤顶

- 扁平设计适用于狭窄空间。
- 主轴及锁帽特殊处理，防止长时间密合卡死。
- 安全锁帽可于压力释放后维持支撑。
- 倾斜垫块可减少偏荷载危险。
- 溢油孔可防止超扬程。
- 将到达全扬程时出现红色警戒线。
- 垂直单动重力回缩。
- 表面粉体涂装美观抗腐蚀、防锈。
- 各型号均含SQB-3/8UF快速接头及防尘盖。

### Single-Acting, Load return with Lock Ring Cylinder

- ※ Low height design for use in confined space.
- ※ Special coating on thread piston and lock ring to prevent anti-seize over long period of time.
- ※ Safety lock ring for mechanical load support even with hydraulic pressure released.
- ※ Equipped with tilt saddle to minimize off center-load.
- ※ Equipped with overflow port to prevent over stroke.
- ※ Equipped with red indicate line to warn operator when cylinder reach full stroke.
- ※ Load return type-for vertical lifting only.
- ※ Powder coat finish for better corrosion resistance.
- ※ All cylinders are equipped with SQB-3/8UF female coupler & dust cap.

	焊提把 Weldable
	吊环螺栓 Eyebolt
	活动提把 Removable strap handles
	螺牙式活动提把 Thread

提把型式 Handle type	
(S) : 标准配件 standard equipped	
(O) : 选配 option	
● 焊提把 Weldable	
★ 活动提把 Eyebolt	
▲ 吊环螺栓 Removable strap handles	
■ 螺牙式活动提把 Thread	



提把型式 Handle type	型号 Model Number	外部尺寸 Outer Dimension					
		能力 Cylinder Capacity	扬程 Stroke	受压面积 Cylinder Effective Area	总油量 Oil Capacity	本身高 Collapsed Height	伸长总高 Extended Height
(S)		ton (kN)	(mm)	(cm <sup>2</sup> )	(cm <sup>3</sup> )	A (mm)	(mm)
★	CLP-602	60 (606)	50	86.6	432	125	175
★	CLP-1002	100 (1027)	50	146.8	734	137	187
★	CLP-1602	160 (1619)	45	231.3	1040	148	193
★	CLP-2002	200 (1999)	45	285.6	1285	155	200
★	CLP-2502	260 (2567)	45	366.8	1650	159	204
★	CLP-4002	400 (3916)	45	559.5	2517	178	223
★	CLP-5002	520 (5114)	45	730.6	3287	192	237

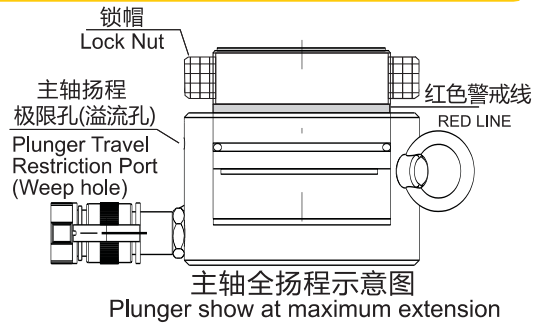
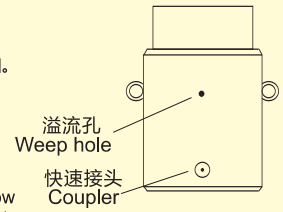


适用于单动，高吨位千斤顶  
CLP, CLL, CLS 系列

到达扬程极限时，溢流孔流出液压油。  
借此警告并保护主轴超扬升。

Apply to Single-acting, High  
tonnage cyl. CLP, CLL and  
CLS series

When stroke limit is reached; overflow  
port ("weep hole") spurt oil to prevents  
piston from being overextended.



### 垫块/鞍座 Saddle

所有CLP-系列均配有整体性之倾斜垫块以预防侧荷重之危险。  
All CSLP-Series come with tilt saddles to minimize off center-load damage.



### 高扬程锁帽千斤顶

**Longer Stroke Lock Nut**  
请参考CLL-系列。

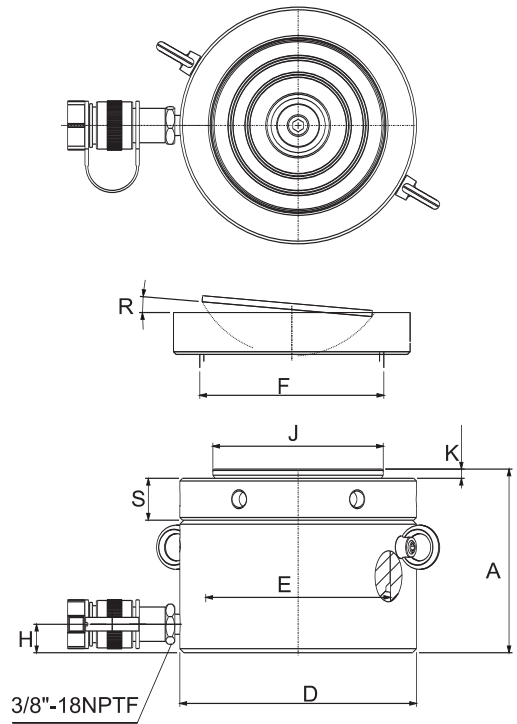
For lock nut applications that require longer stroke lengths, see CSLL-Series.



### 控制阀 Control Valve

可搭配例如SV-82类的针阀来控制油压缸上升和下降的速度(请参考SV-系列)

Fitting needle valve such as SV-82 is used to control cylinder speed during lifting and lowering. (See SV-Series)



外部尺寸 Outer Dimension

外径 Outside Diameter D (mm)	内径 Cyl. Bore Diameter E (mm)	主轴直径 Plunger Diameter F (mm)	底部前进油孔位置 Base to Advance Port H (mm)	垫块直径 Saddle Diameter J (mm)	凸出高度 Saddle Protrusion from Plngr. K (mm)	垫块最大倾斜角度 Saddle Max. Tilt Angle R	锁帽高度 Lock Nut Height S (mm)	重量 Weight (kg)
140	105.0	Tr104X4	19	96	6	5°	28	15
175	136.7	Tr136X6	21	126	8	5°	31	26
220	171.6	Tr171X6	27	160	9	5°	40	44
245	190.7	Tr190X6	30	180	10	5°	43	57
275	216.1	Tr216X6	32	200	11	5°	44	74
350	267.0	Tr266X6	39	250	11	4°	55	134
400	305.0	Tr305X6	48	290	10	3°	62	189

## RC Series



Capacity:  
**5-100 ton**

Stroke:  
**16-362mm**

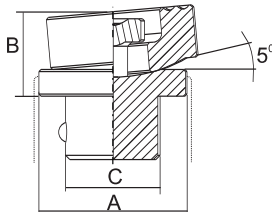
Maximum Operating Pressure:  
**700 bar**

## RC 液压单动弹簧回缩，外牙式千斤顶

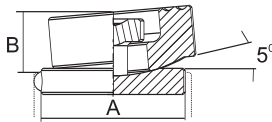
- 液压缸外螺牙及底座螺孔便于固定。(详见规范)
- 主轴内螺牙 (5ton~30ton)便于安装于特制工件或设计。
- 主轴上铜合金圈可预防偏心荷载所造成的刮伤。
- 主轴硬铬处理耐磨、抗腐蚀。
- 油缸内壁硬铬处理，于高湿度气候更耐磨、抗腐蚀。
- 防尘环减少污染物附着。
- 上螺帽保护主轴超扬升及全扬程荷载。
- 表面粉体涂装美观抗腐蚀、防锈。
- 外螺牙均含保护套。
- 各型号均含SQB-3/8UF快速接头及防尘盖。

### Single-Acting, Spring return Collar threads Cylinders

- ※ Equip with collar threads and base holes (on most model), for greater flexibility in mounting onto fixture.(see page 16 for details)
- ※ Equip with inner plunger threads (5 ton to 30 ton) for greater flexibility in designing fixture or mould.
- ※ Bronze alloy bearing on plunger to minimize scoring due to off-centre load.
- ※ Hard chrome plated plunger to resists wear and corrosion.
- ※ Inner barrel wall are hard chrome plated to resists wear and corrosion in high humidity atmosphere.
- ※ Equip with wiper seals to prevent ingress of dirt.
- ※ Equip with stop-ring to prevent plunger blow-out and withstands full "Dead-End" load.
- ※ Powder coated finish for greater corrosion protection.
- ※ Equip with plastic cap to protect collar threads.
- ※ Come with SQB-3/8UF female coupler & dust cap.



XKCAT-10, 50



XKCAT-100

选配垫块尺寸 Optional Saddle Dimensions (mm)				
油压缸 型号-能力 Cylinder Model/Cap. (ton)	型号 样式：倾斜垫块 Model Number Type : Tilt	A	B	C
RC-10 , RC-15 Except RC-101	<b>XKCAT-10</b>	35	20	22
RC-25 , RC-30	<b>XKCAT-50</b>	50	21	35
RC-50 , RC-75 RC-100	<b>XKCAT-100</b>	71	24	-



### 垫块/鞍座 Saddle

RC-系列均配有高硬度可移除式沟槽垫块于起重时具防滑作用。偏心起重时请选用倾斜垫块。

RC-Series are equipped with hardened removable "Ribbed saddles" to prevent slippage during jacking. For off-center loading application, see optional tilting saddle.





提把型式 Handle type	
(S) : 标准配件 standard equipped	
(O) : 选配 option	
● 焊提把 Weldable	
★ 活动提把 Eyebolt	
▲ 吊环螺栓 Removable strap handles	
■ 螺牙式活动提把 Thread	



RC-25吨 复轨实例应用  
RC-25 ton rail way application



RC&泵特殊订制  
RC & Pump -specific purpose

快速规范 QUICK SELECTION CHART								
提把型式 Handle type	型号 Model Number	能力 Cylinder Capacity	扬程 Stroke	受压面积 Cylinder Effective Area	总油量 Oil Capacity	本身高 Collapsed Height	主轴内牙 Plunger internal Thread	重量 Weight
(O) (S)		ton (kN)	(mm)	(cm <sup>2</sup> )	(cm <sup>3</sup> )	A (mm)	O (in)	(kg)
	RC-50	5 (45)	16	6.5	10	41	—*	1.0
	RC-51		25	6.5	16	110	3/4"-16	1.0
	RC-53		76	6.5	50	165	3/4"-16	1.5
	RC-55		127	6.5	83	215	3/4"-16	1.9
	RC-57		177	6.5	115	273	3/4"-16	2.4
	RC-59		232	6.5	151	323	3/4"-16	2.8
	RC-101	10 (101)	26	14.5	38	89	#10-24UN	1.8
	RC-102		54	14.5	78	121	1"-8	2.3
	RC-104		105	14.5	152	171	1"-8	3.3
	RC-106		156	14.5	226	247	1"-8	4.4
	RC-108		203	14.5	294	298	1"-8	5.4
	RC-1010		257	14.5	373	349	1"-8	6.4
	RC-1012		304	14.5	441	400	1"-8	6.8
	RC-1014		356	14.5	516	450	1"-8	8.2
	RC-151	15 (142)	25	20.3	51	124	1"-8	3.3
	RC-152		51	20.3	104	149	1"-8	4.1
	RC-154		101	20.3	205	200	1"-8	5.0
	RC-156		152	20.3	308	271	1"-8	6.8
	RC-158		203	20.3	411	322	1"-8	8.2
	RC-1510		254	20.3	516	373	1"-8	9.5
	RC-1512		305	20.3	619	423	1"-8	10.9
	RC-1514	356	20.3	723	474	1"-8	11.8	
	RC-251	25 (232)	26	33.2	86	139	1 1/2"-16	5.9
	RC-252		50	33.2	166	165	1 1/2"-16	6.4
	RC-254		102	33.2	339	215	1 1/2"-16	8.2
	RC-256		158	33.2	525	273	1 1/2"-16	10.0
	RC-258		210	33.2	697	323	1 1/2"-16	12.2
	RC-2510		261	33.2	867	374	1 1/2"-16	14.1
	RC-2512		311	33.2	1033	425	1 1/2"-16	16.3
	RC-2514		362	33.2	1202	476	1 1/2"-16	17.7
	RC-308	30(295)	209	42.1	880	387	—	18.1
	RC-502	50 (498)	51	71.2	362	176	—	15.0
■	RC-504		101	71.2	719	227	—	19.1
■	RC-506		159	71.2	1131	282	—	23.1
▲	RC-5013		337	71.2	2399	460	—	37.6
	RC-756	75 (718)	156	102.6	1601	285	—	29.5
	RC-7513		333	102.6	3417	492	—	59.0
▲ ●	RC-1004	100 (933)	102	133.3	1355	204	—	33.1
▲ ★	RC-1006		168	133.3	2239	357	—	59.0
▲ ★	RC-1008		203	133.3	2709	357	—	59.0
▲ ★	RC-10010		260	133.3	3466	449	—	72.6

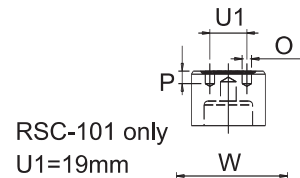
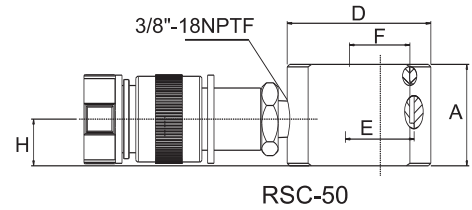
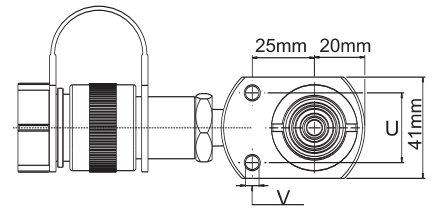
\*RC-50油缸缸具不可拆卸沟槽垫块且无外螺牙  
RC-50 cylinder has non-removable grooved saddle and no collar thread.

型号 Model Number	外部尺寸 Outer Dimension											
	能力 Cylinder Capacity	扬程 Stroke	受压面积 Cylinder Effective Area	总油量 Oil Capacity	本身高 Collapsed Height	伸长总高 Extended Height	外径 Outside Diam.	内径 Cylinder Bore Diam.	主轴直径 Plunger Diam.	底部前进油孔位置 Base to Adv. Port	垫块直径 Saddle Diam.	突出高度 Saddle Protrusion from Plngr.
	ton(kN)	(mm)	(cm <sup>2</sup> )	(cm <sup>3</sup> )	A (mm)	(mm)	D (mm)	E (mm)	F (mm)	H (mm)	J (mm)	K (mm)
RC-50	5 (45)	16	6.5	10	41	57	58	28.7	25.4	19	—*	—*
RC-51		25	6.5	16	110	135	38	28.7	25.4	19	25	6
RC-53		76	6.5	50	165	241	38	28.7	25.4	19	25	6
RC-55		127	6.5	83	215	342	38	28.7	25.4	19	25	6
RC-57		177	6.5	115	273	450	38	28.7	25.4	19	25	6
RC-59		232	6.5	151	323	555	38	28.7	25.4	19	25	6
RC-101	10 (101)	26	14.5	38	89	115	57	42.9	38.1	19	—	—
RC-102		54	14.5	78	121	175	57	42.9	38.1	19	35	6
RC-104		105	14.5	152	171	276	57	42.9	38.1	19	35	6
RC-106		156	14.5	226	247	403	57	42.9	38.1	19	35	6
RC-108		203	14.5	294	298	501	57	42.9	38.1	19	35	6
RC-1010		257	14.5	373	349	606	57	42.9	38.1	19	35	6
RC-1012		304	14.5	441	400	704	57	42.9	38.1	19	35	6
RC-1014		356	14.5	516	450	806	57	42.9	38.1	19	35	6
RC-151	15 (142)	25	20.3	51	124	149	69	50.8	41.4	19	38	9
RC-152		51	20.3	104	149	200	69	50.8	41.4	19	38	9
RC-154		101	20.3	205	200	301	69	50.8	41.4	19	38	9
RC-156		152	20.3	308	271	423	69	50.8	41.4	25	38	9
RC-158		203	20.3	411	322	525	69	50.8	41.4	25	38	9
RC-1510		254	20.3	516	373	627	69	50.8	41.4	25	38	9
RC-1512		305	20.3	619	423	728	69	50.8	41.4	25	38	9
RC-1514		356	20.3	723	474	830	69	50.8	41.4	25	38	9
RC-251	25 (232)	26	33.2	86	139	165	85	65.0	57.2	25	50	10
RC-252		50	33.2	166	165	215	85	65.0	57.2	25	50	10
RC-254		102	33.2	339	215	317	85	65.0	57.2	25	50	10
RC-256		158	33.2	525	273	431	85	65.0	57.2	25	50	10
RC-258		210	33.2	697	323	533	85	65.0	57.2	25	50	10
RC-2510		261	33.2	867	374	635	85	65.0	57.2	25	50	10
RC-2512		311	33.2	1033	425	736	85	65.0	57.2	25	50	10
RC-2514		362	33.2	1202	476	838	85	65.0	57.2	25	50	10
RC-308	30(295)	209	42.1	880	387	596	101	73.2	57.2	57	50	10
RC-502	50 (498)	51	71.2	362	176	227	127	95.2	79.5	33	71.5	2
RC-504		101	71.2	719	227	328	127	95.2	79.5	33	71.5	2
RC-506		159	71.2	1131	282	441	127	95.2	79.5	35	71.5	2
RC-5013		337	71.2	2399	460	797	127	95.2	79.5	35	71.5	2
RC-756	75 (718)	156	102.6	1601	285	441	146	114.3	95.2	30	71	5
RC-7513		333	102.6	3417	492	825	146	114.3	95.2	30	71	5
RC-1004	100 (933)	102	133.3	1355	204	306	177	130.3	104.9	41	71	2
RC-1006		168	133.3	2239	357	525	177	130.3	104.9	41	71	2
RC-1008		203	133.3	2709	357	576	177	130.3	104.9	41	71	2
RC-10010		260	133.3	3466	449	709	177	130.3	104.9	41	71	2

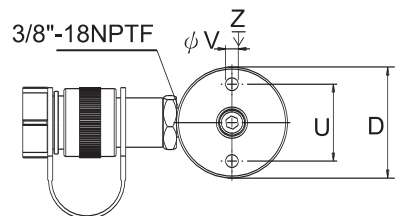
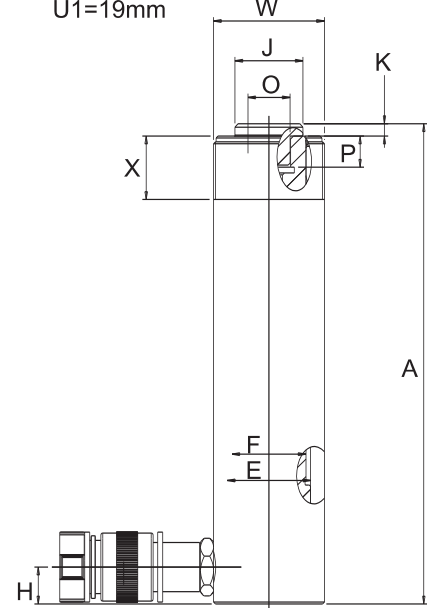
\*RC-50油压缸具不可拆卸沟槽垫块且无外螺牙  
RC-50 cylinder has non-removable grooved saddle and no collar thread.



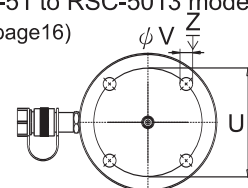
型号 Model Number	牙纹尺寸 Threads Dimension				底座螺孔 Base Mounting Holes			重量 Wt. (kg)
	主轴内牙 Plunger Internal Thread	内牙深度 Plunger Thread Length	油缸外牙 Collar Thread	外牙长度 Collar Thread Length	底座孔距 Bolt Circle U (mm)	底座螺纹 Thread V (in)	螺纹深度 Thread Depth Z (mm)	
	O (in)	P (mm)	W (in)	X (mm)				
RC-50	—*	—*	—	—	28	5.6mm	—	1.0
RC-51	3/4"-16	14	1 1/2"-16	28	25	1/4"-20UN	14	1.0
RC-53	3/4"-16	14	1 1/2"-16	28	25	1/4"-20UN	14	1.5
RC-55	3/4"-16	14	1 1/2"-16	28	25	1/4"-20UN	14	1.9
RC-57	3/4"-16	16	1 1/2"-16	28	25	1/4"-20UN	14	2.4
RC-59	3/4"-16	16	1 1/2"-16	28	25	1/4"-20UN	14	2.8
RC-101	#10-24UN	6	2 1/4"-14	26	39	5/16"-18UN	12	1.8
RC-102	1"-8	19	2 1/4"-14	26	39	5/16"-18UN	12	2.3
RC-104	1"-8	19	2 1/4"-14	26	39	5/16"-18UN	12	3.3
RC-106	1"-8	19	2 1/4"-14	26	39	5/16"-18UN	12	4.4
RC-108	1"-8	19	2 1/4"-14	26	39	5/16"-18UN	12	5.4
RC-1010	1"-8	19	2 1/4"-14	26	39	5/16"-18UN	12	6.4
RC-1012	1"-8	19	2 1/4"-14	26	39	5/16"-18UN	12	6.8
RC-1014	1"-8	19	2 1/4"-14	26	39	5/16"-18UN	12	8.2
RC-151	1"-8	25	2 3/4"-16	30	47	3/8"-16UN	12	3.3
RC-152	1"-8	25	2 3/4"-16	30	47	3/8"-16UN	12	4.1
RC-154	1"-8	25	2 3/4"-16	30	47	3/8"-16UN	12	5.0
RC-156	1"-8	25	2 3/4"-16	30	47	3/8"-16UN	12	6.8
RC-158	1"-8	25	2 3/4"-16	30	47	3/8"-16UN	12	8.2
RC-1510	1"-8	25	2 3/4"-16	30	47	3/8"-16UN	12	9.5
RC-1512	1"-8	25	2 3/4"-16	30	47	3/8"-16UN	12	10.9
RC-1514	1"-8	25	2 3/4"-16	30	47	3/8"-16UN	12	11.8
RC-251	1 1/2"-16	25	3 5/16"-12	49	58	1/2"-13UN	19	5.9
RC-252	1 1/2"-16	25	3 5/16"-12	49	58	1/2"-13UN	19	6.4
RC-254	1 1/2"-16	25	3 5/16"-12	49	58	1/2"-13UN	19	8.2
RC-256	1 1/2"-16	25	3 5/16"-12	49	58	1/2"-13UN	19	10.0
RC-258	1 1/2"-16	25	3 5/16"-12	49	58	1/2"-13UN	19	12.2
RC-2510	1 1/2"-16	25	3 5/16"-12	49	58	1/2"-13UN	19	14.1
RC-2512	1 1/2"-16	25	3 5/16"-12	49	58	1/2"-13UN	19	16.3
RC-2514	1 1/2"-16	25	3 5/16"-12	49	58	1/2"-13UN	19	17.7
RC-308	1 1/2"-16	25	3 5/16"-12	49	—	—	—	18.1
RC-502	—	—	5"-12	55	95	1/2"-13UN	19	15.0
RC-504	—	—	5"-12	55	95	1/2"-13UN	19	19.1
RC-506	—	—	5"-12	55	95	1/2"-13UN	19	23.1
RC-5013	—	—	5"-12	55	95	1/2"-13UN	19	37.6
RC-756	—	—	5 3/4"-12	44	—	—	—	29.5
RC-7513	—	—	5 3/4"-12	44	—	—	—	59.0
RC-1004	—	—	6 7/8"-12	44	—	—	—	33.1
RC-1006	—	—	6 7/8"-12	44	139	3/4"-10UN	25	59.0
RC-1008	—	—	6 7/8"-12	44	139	3/4"-10UN	25	59.0
RC-10010	—	—	6 7/8"-12	44	139	3/4"-10UN	25	72.6



RSC-101 only  
U1=19mm

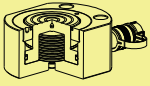


RSC-51 to RSC-5013 models  
(see page 16)



RSC-1006 and RSC-10010 models

## RSM Series



Capacity:  
**5-150 ton**

Stroke:  
**6-16 mm**

Maximum Operating Pressure:  
**700 bar**

## RSM 液压单动, 超薄型千斤顶

- 扁平设计适用于窄小空间作业需求。
- 底座螺孔便于固定。
- 沟槽式主轴表面, 不需加装垫块。
- 主轴及液压缸内壁硬铬处理耐磨、抗腐蚀。
- 强力弹簧加速主轴回缩速度。
- 防尘环减少污染物附着。
- 上螺帽保护主轴超扬升。
- 表面粉体涂装美观抗腐蚀、防锈。
- 各型号均含SQB-3/8UF快速接头及防尘盖。

### Single-Acting, Low Height, Flat Cylinders

- ※ Compact and flat design for use where in a narrow space.
- ※ Mounting holes permit easy fixturing.
- ※ Grooved plunger ends require no saddle.
- ※ Hard chrome plated plunger and inner of barrel resists wear and corrosion.
- ※ Maximum sized springs speed piston return and increase spring life.
- ※ Plunger wiper reduces contaminant.
- ※ Stop ring for piston blow-out protection.
- ※ Powder coat finish for increased corrosion resistance and antirust.
- ※ Come with SQB-3/8UF female coupler & dust cap.



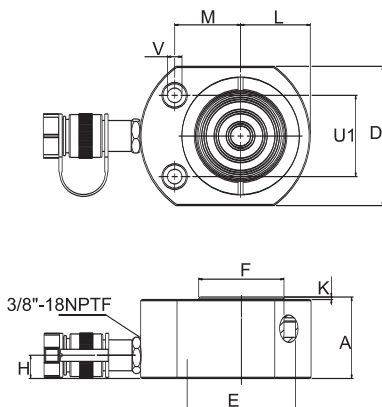
### RSM-50

- RSM-50 搭配SQB-3/8UF快速接头。
- ※ RSM-50 is fitting with a SQB-3/8UF.



	焊提把 Weldable
	吊环螺栓 Eyebolt
	活动提把 Removable strap handles
	螺牙式活动提把 Thread

提把型式 Handle type
(S): 标准配件 standard equipped
(O): 选配 option
● 焊提把 Weldable
★ 活动提把 Eyebolt
▲ 吊环螺栓 Removable strap handles
■ 螺牙式活动提把 Thread



提把型式 Handle type	型号 Model Number	外部尺寸 Outer Dimension					
		能力 Cylinder Capacity	扬程 Stroke	受压面积 Cylinder Effective Area	总油量 Oil Cap.	本身高 Collapsed Height	伸长总高 Extended Height
(S)		ton(kN)	(mm)	cm <sup>2</sup>	cm <sup>3</sup>	A (mm)	(mm)
	RSM-50	5 (45)	6	6.5	4	32	38
	RSM-100	10 (101)	12	14.5	18	43	54
	RSM-200	20 (201)	11	28.7	32	51	62
	RSM-300	30 (295)	13	42.1	55	58	71
	RSM-500	45 (435)	16	62.1	99	66	82
●	RSM-750	75 (718)	16	102.6	164	79	95
●	RSM-1000	90 (887)	16	126.7	203	85	101
●	RSM-1500	150 (1386)	16	198.1	317	100	116

型号 Model Number	外部尺寸 Outer Dimension								底座孔径 Base Mounting Hole			
	外径 Outside Diameter	内径 Cylinder Bore Diam.	主轴直径 Plunger Diam.	底部前进 油孔位置 Base to Adv. Port	凸出高度 Plunger Protrusion from Base	偏心位置 Plunger to Base	鱼眼位置 Plunger to Mtg. Hole	总重 Weight	鱼眼孔距 Hole Pitch.	孔径 Hole Diam.	鱼眼 Counter Bore Diam.	鱼眼深度 Counter Bore Depth
	D (mm)	E (mm)	F (mm)	H (mm)	K (mm)	L (mm)	M (mm)	(kg)	U1(mm)	V(mm)	(mm)	(mm)
RSM-50	58 x 41	28.7	25.4	16	1	20	22	1.0	28.5	5.5	7.9	4.3
RSM-100	82 x 55	42.9	38.1	19	1	27	34	1.4	36.6	7.1	10.7	7.9
RSM-200	101 x 76	60.5	50.8	19	1	39	39	3.1	49.3	10.0	15.1	9.9
RSM-300	117 x 95	73.2	63.4	19	2	47	44	4.5	52.3	10.0	15.9	11.2
RSM-500	140 x 114	88.9	69.8	19	2	57	53	6.8	66.5	11.9	19.0	12.7
RSM-750	165 x 139	114.3	82.6	19	2	69	66	11.3	76.2	13.5	20.6	14.2
RSM-1000	178 x 153	127.0	92.2	19	2	76	74	14.5	76.2	13.5	20.6	14.2
RSM-1500	215 x 190	158.8	114.3	23	2	95	82	26.3	117.3	13.5	20.6	14.2

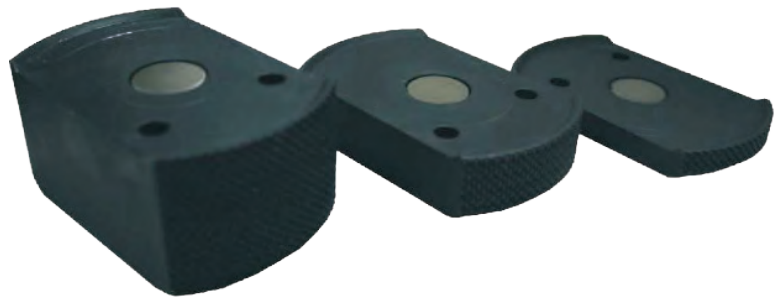
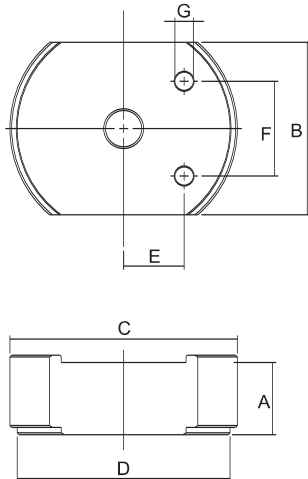
## RSM系列配件

- 强力磁力组合成多样性高度。
- 适用底矮型空间作业增加高度时使用。

### RSM series Accessories

※ Various height magnetic adapters.

※ Perfect for low clearance areas needing a little height boost.



最大操作压力10000psi/700bar  
Maximum working pressure 10000psi/ 700bar

型号 Model No.	油缸型号 Cylinder Model	油缸高度 Cylinder Height		垫块尺寸 Adapter Dimension								重量 Weight (kg)
				A		B	C	D	E	F	G	
				(in)	(mm)	(in/mm)	(in/mm)	(in/mm)	(in/mm)	(in/mm)	(in/mm)	
XKRSM5-6	RSSM-50	1.25	32.0	0.1	6.4	1.6 / 41.4	2.5 / 64.7	2.3 / 58.7	0.5 / 13.6	1.1 / 28.5	0.2 / 5.1	0.1
XKRSM5-12				0.5	12.7							0.2
XKRSM5-25				1.0	25.4							0.5
XKRSM5-31				1.3	31.8							0.6
XKRSM10-9	RSSM-100	1.69	43.0	0.4	9.9	2.2 / 55.6	3.6 / 90.6	3.3 / 82.6	0.8 / 20.5	1.4 / 36.6	0.3 / 7.1	0.3
XKRSM10-20				0.8	20.0							0.7
XKRSM10-39				1.6	39.9							1.4
XKRSM20-9	RSSM-200	2.00	51.0	0.4	9.9	3.0 / 76.2	4.3 / 109.6	4.0 / 101.6	1.1 / 28.4	1.9 / 49.3	0.4 / 10.1	0.6
XKRSM20-20				0.8	20.0							1.1
XKRSM20-39				1.6	39.9							2.2
XKRSM30-9	RSSM-300	2.28	58.0	0.4	9.9	3.8 / 95.3	4.9 / 125.6	4.6 / 117.6	1.3 / 33.4	2.1 / 52.3	0.4 / 10.1	0.8
XKRSM30-20				0.8	20.0							1.6
XKRSM30-39				1.6	39.9							3.2



### 油/液缸-动力单元(泵)组合

建议您基本安装包含油缸、公/母快速接头、油管、压力表、压力表接头及驱动泵。

#### Hydraulic Cylinder and Pump Sets

Basic system set-up include cylinder, male/female coupler, hose, pressure gauge, gauge accessories and pump.

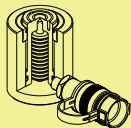


### 控制阀 Control Valve

可搭配例如SV-82类的针阀来控制油缸上升和下降的速度(请参考SV-系列)

Fitting needle valve such as SV-82 is used to control cylinder speed during lifting and lowering. (See SV-Series)

## RCS Series



Capacity:

10-90 ton

Stroke:

38-62 mm

Maximum Operating Pressure:

700 bar

## RCS 液压单动，低型千斤顶

- 质轻且基体低，但扬程要求较RSM高时，适用此系列。
- 沟槽式主轴表面具螺牙孔便于安装倾斜垫块（选配）。
- 主轴及液压缸内壁硬铬处理耐磨、抗腐蚀。
- 强力弹簧加速主轴回缩速度。
- 防尘环减少污染物附着。
- 上螺帽保护主轴超扬升。
- 表面粉体涂装美观抗腐蚀、防锈。
- 各型号均含SQB-3/8UF快速接头及防尘盖。

### Single-Acting, Low Height Cylinders

- ※Lightweight, low profile design for use in confined spaces ,but stroke higher than RSM.
- ※Grooved plunger end with threaded holes for mounting tilt saddles.
- ※Hard chrome plated plunger and inner of barrel resists wear and corrosion.
- ※Maximum sized springs speed piston return and increase spring life.
- ※Plunger wiper reduces contaminant.
- ※Stop ring for piston blow-out protection.
- ※Powder coat finish for increased corrosion resistance and antirust.
- ※SQB-3/8UF coupler and dust cap are included on all models.



RCS-502 捷运系统同步实例应用  
RCS-502 Rapid transit system  
Synchronous Lift application

	焊提把 Weldable
	吊环螺栓 Eyebolt
	活动提把 Removable strap handles
	螺牙式活动提把 Thread

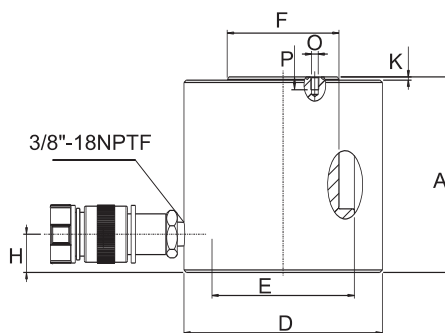
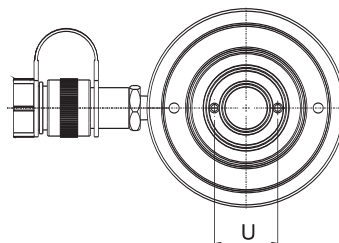
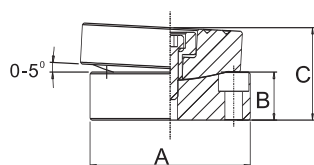
提把型式 Handle type	
(S)	: 标准配件 standard equipped
(O)	: 选配 option
●	焊提把 Weldable
★	活动提把 Eyebolt
▲	吊环螺栓 Removable strap handles
■	螺牙式活动提把 Thread



### 选配倾斜垫块/鞍座 Opt Tilt Saddle

RCS-系列均有主轴螺纹孔便于安装倾斜垫块。

All RCS-Series has plunger mounting holes for installation of tilt saddles.



选配螺栓倾斜垫块尺寸 Optional Bolt Tilt Saddle Dimensions (mm)

油压缸 型号-能力 Cylinder Model/Cap. ton(kN)	型号 Model Number	A	B	*C
RCS-101	XKCATRSCS-10	35	11	21
RCS-201,302,502	XKCATRSCS-20	50	15	29
RCS-1002	XKCATRSCS-100	71	17	35

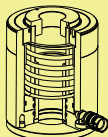
\*C尺寸为垫块自主轴突出高度均附有底座螺栓。

\*C dimension equals saddle protrusion from plunger. Mounting screws are included.

提把型式 Handle type	型号 Model Number	外部尺寸 Outer Dimension			
		能力 Cylinder Capacity ton(kN)	扬程 Stroke (mm)	受压面积 Cylinder Effective Area (cm <sup>2</sup> )	总油量 Oil Capacity (cm <sup>3</sup> )
(S)	RCS-101	10(101)	38	14.5	55
	RCS-201	20(201)	45	28.7	129
	RCS-302	30(295)	62	42.1	261
●	RCS-502	45(435)	60	62.1	373
●	RCS-1002	90(887)	57	126.7	722
★	RCS-2503	250(2309)	76.2	329.9	2468

型号 Model Number	外部尺寸 Outer Dimension								牙纹尺寸 Threads Dimension		
	本身高 Collapsed Height	伸长总高 Extended Height	外径 Outside Diameter	内径 Cylinder Bore Diam.	主轴直径 Plunger Diam.	底部前进 油孔位置 Base to Adv. Port	凸出高度 Plunger Protrusion from Base	总重 Wt.	主轴螺纹 Thread	螺纹深度 Thread Depth	螺纹孔距 Bolt Circle
	A (mm)	(mm)	D (mm)	E (mm)	F (mm)	H (mm)	K (mm)	(kg)	O (mm)	P (mm)	U (mm)
RCS-101	88	126	69	42.9	38.1	17	5	4.1	M4	8	26
RCS-201	98	143	92	60.5	50.8	17	3	5.0	M5	8	39
RCS-302	117	179	101	73.2	66.5	19	3	6.8	M5	8	39
RCS-502	122	182	124	88.9	69.8	23	2	10.9	M5	8	39
RCS-1002	141	198	165	127.0	92.2	31	1	22.7	M8	10	55
RCS-2503	290	366	257	205.0	139.7	46	5	100.0	-	-	-

## RCH Series



Capacity:

**13-95 ton**

Stroke:

**8-155 mm**

Center Hole Diameter:

**19.6-79.0 mm**

Maximum Operating Pressure:

**700 bar**

## RCH 液压单动，中空型千斤顶

- 中空柱塞设计，适用于推力及拉力应用。
- 低外型、高扬程适用于紧致空间。
- 液压缸在最大行程亦能承载最大荷重。
- 外螺牙便于固定且各均附螺牙保护套。
- 特制中空衬管保护主轴及液压缸内壁增加产品寿命。
- 主轴及液压缸内壁硬铬处理耐磨、抗腐蚀。
- 弹簧回缩。
- 防尘环设计可保护活塞、内径及衬管避免污染。
- 上螺帽保护主轴超扬升。
- 表面粉体涂装美观抗腐蚀、防锈。
- 各型号均含SQB-3/8UF快速接头及防尘盖。

### Single-Acting, Hollow Plunger Cylinders

- ※Hollow plunger design allows for pulling and pushing application.
- ※Low profile and longer strokes fit in the tightest space.
- ※Withstands full "dead-end" loads.
- ※Collar threads for easy fixturing and all collar threads have a cap for protection.
- ※Special center tube protect plunger and inner of cylinder increases product life.
- ※Hard chrome plated plunger and inner of barrel resists wear and corrosion.
- ※Spring returning.
- ※Wiper rings protect the piston,bore & tube from contamination.
- ※Stop ring for piston blow-out protection.
- ※Powder coat finish for increased corrosion resistance and antirust.
- ※Come with SQB-3/8UF female coupler & dust cap.

	焊提把 Weldable
	吊环螺栓 Eyebolt
	活动提把 Removable strap handles
	螺牙式活动提把 Thread

#### 提把型式 Handle type

(S) : 标准配件 standard equipped

(O) : 选配 option

- 焊提把 Weldable
- ★ 活动提把 Eyebolt
- ▲ 吊环螺栓 Removable strap handles
- 螺牙式活动提把 Thread

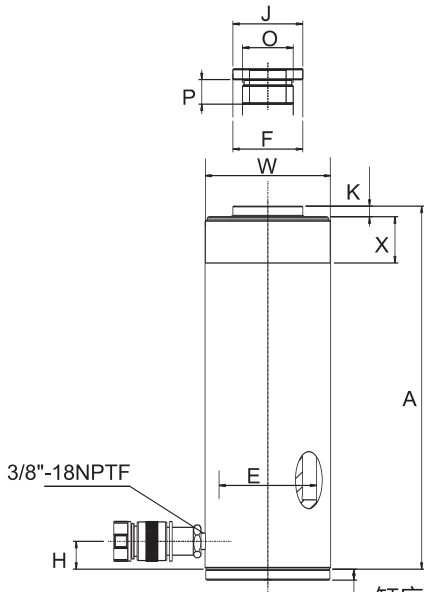


### RCH-120

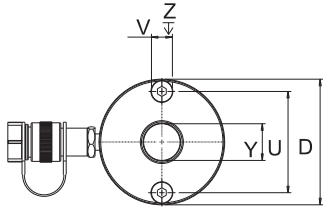
● RCH-120 附有1/4 NPT孔配装SQB-3/8UF快速接头。

※ RCH-120 includes SQB-3/8UF coupler and has 1/4 NPT port.

提把型式 Handle type	型号 Model Number	能力 Cylinder Capacity	外部尺寸 Outer Dimension							
			扬程 Stroke	受压面积 Cylinder Effective Area	总油量 Oil Cap.	本身高 Collapsed Height	伸长总高 Ext. Height	外径 Out. Diam.	内径 Cylinder Bore Diam.	主轴直径 Plng. Diam.
(S)		ton(kN)	(mm)	(cm <sup>2</sup> )	(cm <sup>3</sup> )	A (mm)	(mm)	D (mm)	E (mm)	F (mm)
	RSCH-120	13(125)	8	17.9	14	55	63	69	54.1	35.1
	RSCH-121		42	17.9	75	120	162	69	54.1	35.1
	RSCH-1211		42	17.9	75	120	162	69	54.1	35.1
	RSCH-123		76	17.9	136	184	260	69	54.1	35.1
●	RSCH-202	20(215)	49	30.7	150	162	211	98	73.1	54.1
●	RSCH-204		102	30.7	311	242	344	98	73.1	54.1
●	RSCH-206		155	30.7	476	306	461	98	73.1	54.1
●	RSCH-302	30(326)	64	46.6	298	178	242	114	88.9	63.5
●	RSCH-304		102	46.6	473	233	335	114	88.9	63.5
●	RSCH-306		155	46.6	722	330	485	114	88.9	63.5
▲	RSCH-603	60(576)	76	82.3	626	247	323	159	123.9	92.2
▲	RSCH-606		153	82.3	1259	323	476	159	123.9	92.2
▲	RSCH-1003	95(931)	76	133.0	1011	254	330	212	165.1	127.0

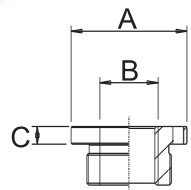


缸底垫块 Steel baseplate :  
 12ton serial : 8mm  
 20~30ton serial : 10mm  
 60ton serial : 12mm  
 100ton serial : 16mm



缸底垫块底座螺孔

This drawing show the base mounting holes of barrel before setting steel base plate.



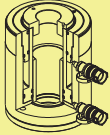
选配热处理螺牙中孔垫块 Optional Heat Treated Hollow Saddles

型号-能力 Cylinder Model/Cap. (ton)	型号 Model Number	垫块尺寸 Saddle Dimensions		
		A (mm)	B (in)	C (mm)
RCH-202,206	XKHCH-20	53	1"-8	9
RCH-302,306	XKHCH-30	63	1-1/4"-7	9
RCH-603,606	XKHCH-60	91	1-5/8"-5-1/2	12
RCH-1003	XKHCH-100	126	2-1/2"-8	13

\* 所有RCH系列千斤顶标准配置平滑中孔垫块 (12吨系列不配置垫块)  
 ※ Smooth hollow saddles are standard on all RCH series.  
 (12ton models are not equipped with saddles.)

外部尺寸 Outer Dimension			牙纹尺寸 Threads Dimension					底座螺孔 Base Mounting Holes			总重 Weight (kg)
底部前进 油孔位置 Cyl. Base to Advance Port H (mm)	垫块直径 Saddle Diam. J (mm)	凸出高度 Saddle Protr. from Plngr. K (mm)	主轴内牙 Plunger Internal Thread O (in)	内牙深度 Plunger Thread Length P (mm)	油缸外牙 Collar Thread W (in)	外牙长度 Collar Thread Length X (mm)	中孔直径 Center Hole Diam. Y (mm)	底孔孔距 Bolt Circle U (mm)	底座螺纹 Thread V (in)	螺纹深度 Thread Depth Z (mm)	
9	—	—	3/4"-16UN	16	2 3/4"-16	30	19.6	50.8	5/16"-18UNC	9.0	1.70
19	—	—	—	—	2 3/4"-16	30	19.6	50.8	5/16"-18UNC	9.0	3.00
19	—	—	3/4"-16UN	16	2 3/4"-16	30	19.6	50.8	5/16"-18UNC	9.0	3.00
19	—	—	—	—	2 3/4"-16	30	19.6	50.8	5/16"-18UNC	12.7	4.60
19	54	6.9	1 9/16"-16UN	19	3 7/8"-12	38	26.9	82.6	3/8"-16UNC	9.4	8.20
19	54	6.9	1 9/16"-16UN	19	3 7/8"-12	38	26.9	82.6	3/8"-16UNC	9.4	10.50
19	54	6.9	1 9/16"-16UN	19	3 7/8"-12	38	26.9	82.6	3/8"-16UNC	9.4	14.60
22	63	9.7	1 13/16"-16UN	22	4 1/2"-12	42	33.3	92.2	3/8"-16UNC	14.0	11.55
22	63	9.7	1 13/16"-16UN	22	4 1/2"-12	42	33.3	92.2	3/8"-16UNC	14.0	14.75
25	63	9.7	1 13/16"-16UN	22	4 1/2"-12	42	33.3	92.2	3/8"-16UNC	14.0	22.45
31	91	12.7	2 3/4"-16UN	19	6 1/4"-12	48	53.8	130.3	1/2"-13UNC	14.0	29.70
31	91	12.7	2 3/4"-16UN	19	6 1/4"-12	48	53.8	130.3	1/2"-13UNC	14.0	37.00
38	126	12.7	4"-16UN	25	8 3/8"-12	60	79.0	177.8	5/8"-11UNC	19.0	53.50

## RRH Series



Capacity:  
**30-145 ton**

Stroke:  
**38-258 mm**

Center Hole Diameter:  
**33.3~79.5 mm**

Maximum Operating Pressure:  
**700 bar**

## RRH 液压双动，中空型千斤顶

- 中空柱塞设计，适用于推力及拉力应用。
- 安全阀设计防止超压损坏。
- 液压缸在最大行程亦能承载最大荷重。
- 外螺牙便于固定（除RRH-1001及RRH-1508）均附螺牙保护套。
- 特制中空衬管保护主轴及液压缸内壁增加产品寿命。
- 主轴硬铬处理耐磨、抗腐蚀。
- 防尘环设计可保护活塞、内径及衬管避免污染。
- 上螺帽保护主轴超扬升。
- 表面粉体涂装美观抗腐蚀、防锈。
- 各型号均含SQB-3/8UF快速接头及防尘盖。

### Double-Acting, Hollow Plunger Cylinders

- ※Hollow plunger design allows for both pull and push forces.
- ※Relief valves protect against over pressurizing.
- ※Withstands full "dead-end" loads.
- ※Collar threads for easy fixturing(Except RRH-1001 & RRH-1508) and all collar threads have a cap for protection.
- ※Special center tube protect plunger and inner of cylinder increases product life.
- ※Hard chrome plated plunger resists wear and corrosion.
- ※Wiper rings protect the piston,bore & tube from contamination.
- ※Stop ring for piston blow-out protection.
- ※Powder coat finish for increased corrosion resistance and antirust.
- ※Come with SQB-3/8UF female coupler & dust cap.

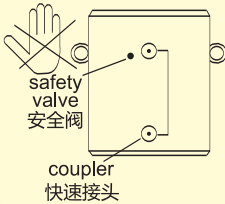


### 请勿调整安全阀压力!

适用于双动千斤顶  
RR,RRH,CLRG系列  
大部分的双动千斤顶安全阀压力设定值为10000psi(700bar)。  
超出原厂设定值时，安全阀会喷出液压油保护千斤顶。  
当安全阀发生漏油状况时请先检查快速接头连接状况。

### Don't adjust safety valve pressure!

Apply to double-acting cylinder  
RR, RRH, CLRG series  
Most double-acting cylinder safety valve pressure setting 10000psi(700bar).  
As surpasses the original factory hypothesis pressure safety valve will spurt oil to protect cylinder.  
Leaking from safety valve, inspect connection of coupler at first.

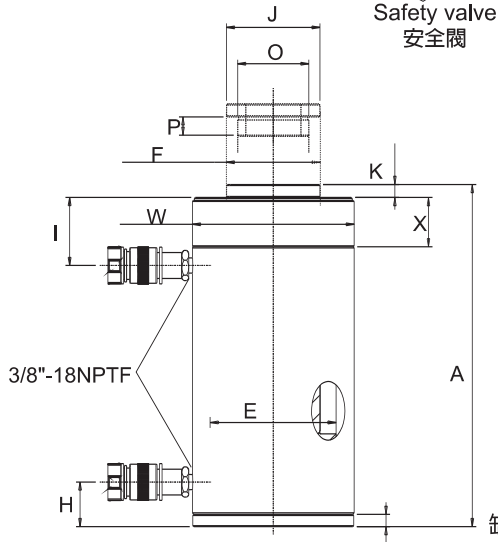
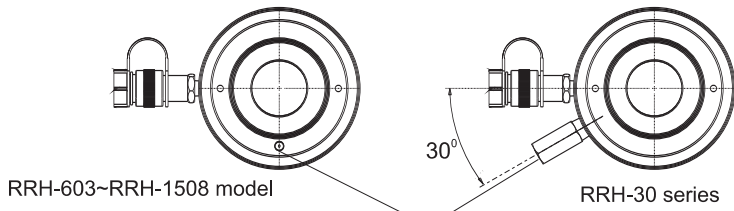


	焊提把 Weldable
	吊环螺栓 Eyebolt
	活动提把 Removable strap handles
	螺牙式活动提把 Thread

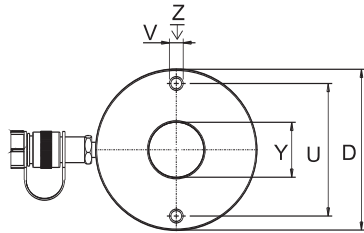
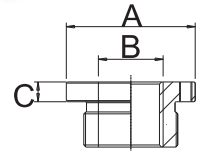
提把型式 Handle type	
(S) : 标准配件 standard equipped	
(O) : 选配 option	
● 焊提把 Weldable	
★ 活动提把 Eyebolt	
▲ 吊环螺栓 Removable strap handles	
■ 螺牙式活动提把 Thread	

提把型式 Handle type	型号 Model Number	能力 Cylinder Capacity	扬程 Stroke	外部尺寸 Outer Dimension						本身高 Coll. Height	伸长总高 Ext. Height	外径 Out. Diam.
				最大出力 Max. Cylinder Capacity		受压面积 Cylinder Effective Area		总油量 Oil Capacity				
				推 Push	拉 Pull	推 Push	拉 Pull	推 Push	拉 Pull			
(S)		ton(kN)	(mm)	(kN)		(cm <sup>2</sup> )		(cm <sup>3</sup> )		A (mm)	(mm)	D (mm)
▲	RRH-307	30(326)	178	326	213	46.6	30.4	829	541	330	508	114
▲	RRH-3010		258	326	213	46.6	30.4	1202	784	431	689	114
▲	RRH-603	60(576)	94	576	380	82.3	54.2	733	482	247	336	159
▲	RRH-606		166	576	380	82.3	54.2	1366	900	323	489	159
▲	RRH-6010		257	576	380	82.3	54.2	2115	1393	438	695	159
▲	RRH-1001	95(931)	38	931	612	133.0	87.4	505	333	165	203	212
▲	RRH-1003		76	931	612	133.0	87.4	1011	666	254	330	212
▲	RRH-1006		153	931	612	133.0	87.4	2035	1337	342	495	212
▲	RRH-10010		257	931	612	133.0	87.4	3420	2246	460	717	212
▲	RRH-1508	145(1429)	203	1429	718	204.1	102.6	4144	2083	349	552	247



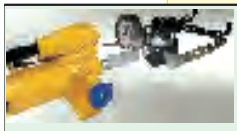


缸底垫块 Steel baseplate :  
 12ton serial : 8mm  
 20~30ton serial : 10mm  
 60ton serial : 12mm  
 100ton serial : 16mm



缸底垫块前底座螺孔图示

This drawing show the base mounting holes of barrel before setting steel base plate.



### 液 压 泵 Pump Selection

双动液压千斤顶必须搭配具4口阀门的液压泵。

A double-acting cylinder must be powered by a pump with a 4-way valve.

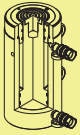
选配螺牙中孔垫块 Optional Heat Treated Hollow Saddles				
油压缸 型号/能力 Cylinder Model/Cap.	型号 Model Number	垫块尺寸 Saddle Dimensions		
		A (mm)	B (in)	C (mm)
ton(kN)				
RRH-307,3010	<b>XKHCH-30</b>	63	1-1/4"-7	9
RRH-603,606,6010	<b>XKHCH-60</b>	91	1-5/8"-5-1/2	12
RRH-1001,1003 1006,10010	<b>XKHCH-100</b>	126	2-1/2"-8	13

※ 所有RRH系列千斤顶标准配置平滑中孔垫块。

※ Smooth hollow saddles are standard on all RRH series.

外部尺寸 Outer Dimension						牙纹尺寸 Threads Dimension					底座螺孔 Base Mounting Holes			总重 Weight
内径 Cyl. Bore Diam.	主轴 直径 Plngr. Diam.	底部前进 油孔位置 Cyl. Base to Adv. Port	顶部回油 油孔位置 Cyl. Top to Return Port	垫块直径 Saddle Diam.	凸出高度 Saddle Protr. Fr. Plngr.	主轴内牙 Plunger Internal Thread	内牙深度 Plunger Thread Length	油缸外牙 Collar Thread	外牙长度 Collar Thread Length	中孔直径 Center Hole Diam.	底孔孔距 Bolt Circle	底座螺纹 Thread	螺纹深度 Thread Depth	
E (mm)	F (mm)	H (mm)	I (mm)	J (mm)	K (mm)	O (in)	P (mm)	W (in)	X (mm)	Y (mm)	U (mm)	V (in)	Z (mm)	(kg)
88.9	63.5	25	60	63	9	1 <sup>13</sup> / <sub>16</sub> "-16	22	4 <sup>1</sup> / <sub>2</sub> "-12	42	33.3	92.2	3/8"-16	15.7	21.65
88.9	63.5	25	60	63	9	1 <sup>13</sup> / <sub>16</sub> "-16	22	4 <sup>1</sup> / <sub>2</sub> "-12	42	33.3	92.2	3/8"-16	15.7	27.65
123.9	92.2	31	66	91	12	2 <sup>3</sup> / <sub>4</sub> "-16	19	6 <sup>1</sup> / <sub>4</sub> "-12	48	54.1	130.0	1/2"-13	14.0	29.60
123.9	92.2	31	66	91	12	2 <sup>3</sup> / <sub>4</sub> "-16	19	6 <sup>1</sup> / <sub>4</sub> "-12	48	54.1	130.0	1/2"-13	14.0	36.60
123.9	92.2	31	66	91	12	2 <sup>3</sup> / <sub>4</sub> "-16	19	6 <sup>1</sup> / <sub>4</sub> "-12	48	54.1	130.0	1/2"-13	14.0	46.60
165.1	127.0	38	44	126	12	4"-16	25	—	—	79.5	177.8	5/8"-11	19.0	36.60
165.1	127.0	38	85	126	12	4"-16	25	8 <sup>3</sup> / <sub>8</sub> "-12	60	79.5	177.8	5/8"-11	19.0	64.60
165.1	127.0	38	85	126	12	4"-16	25	8 <sup>3</sup> / <sub>8</sub> "-12	60	79.5	177.8	5/8"-11	19.0	82.60
165.1	127.0	38	85	126	12	4"-16	25	8 <sup>3</sup> / <sub>8</sub> "-12	60	79.5	177.8	5/8"-11	19.0	109.60
190.5	152.4	38	60	127	4	4 <sup>1</sup> / <sub>4</sub> "-12	25	—	—	79.5	214.0	5/8"-11	15.0	116.00

## RR Series



Capacity:  
10-520 ton

Stroke:  
57-1219 mm

Maximum Operating Pressure:  
700 bar

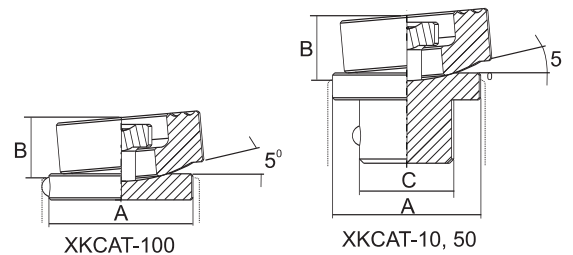
## RR 液压双动千斤顶

- 双动设计，适用于推力及拉力应用。
- 安全阀设计防止超压损坏。
- 液压缸外螺牙、主轴螺牙及底座螺孔便于固定。(详见规范)
- 主轴硬铬处理耐磨、抗腐蚀。
- 防尘环设计可保护活塞及内径避免污染。
- 上螺帽保护主轴超扬升。
- 表面粉体涂装美观抗腐蚀、防锈。
- 各型号均含SQB-3/8UF快速接头及防尘盖。

\*R R系列千斤顶适用于桥梁起重、建筑物改造、造船、公用设施和采矿设备维修。  
\*需具同时荷重又能较精准控制压力使用时,R R系列是最好的选择。

### Double-Acting Cylinders

- ※Double-acting design allows for both pull and push forces
- ※Relief valves protect against over pressurizing.
- ※Collar threads, plunger threads and base mounting holes for easy fixturing. (See chart)
- ※Hard chrome plated plunger resists wear and corrosion.
- ※Wiper rings protect the piston and bore from contamination.
- ※Stop ring for piston blow-out protection.
- ※Powder coat finish for increased corrosion resistance and antirust.
- ※Come with SQB-3/8UF female coupler & dust cap.
- ※RR series cylinders are perfect for bridge lifting, building reconstruction, shipyard, utility and mining equipment maintenance.
- ※As need power and precise positioning of heavy loads, RR series are the best solution.

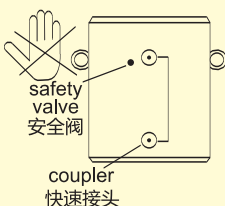


### 请勿调整安全阀压力!

适用于双动千斤顶  
RR,RRH,CLRG系列  
大部分的双动千斤顶安全阀压力设定值为10000psi(700bar)。  
超出原厂设定值时，安全阀会喷出液压油保护千斤顶。  
当安全阀发生漏油状况时请先检查快速接头连接状况。

### Don't adjust safety valve pressure!

Apply to double-acting cylinder  
RR, RRH, CLRG series  
Most double-acting cylinder safety valve pressure setting 10000psi(700bar).  
As surpasses the original factory hypothesis pressure safety valve will spurt oil to protect cylinder.  
Leaking from safety valve, inspect connection of coupler at first.



### 选配倾斜垫块尺寸

#### Optional Tilt Saddle Dimensions (mm)

Cylinder Model/Cap. 油压缸 型号/能力 (ton)	Model Number Type : Tilt 型号 样式: 倾斜垫块			
		A	B	C
RR-1010、1012	XKCAT-10	35	20	22
RR- 308、3014	XKCAT-50	50	21	35
RR- 506、5013 5020、756 7513	XKCAT-100	71	24	—

RR-系列，75吨以上千斤顶具主轴内牙供安装XKCAT-系列倾斜垫块。  
RR -Series up to 75 tons have plunger thread for installation of XKCAT-Series tilt saddles.

	焊提把 Weldable
	吊环螺栓 Eyebolt
	活动提把 Removable strap handles
	螺牙式活动提把 Thread

提把型式 Handle type	
(S):	标准配件 standard equipped
(O):	选配 option
●	焊提把 Weldable
★	活动提把 Eyebolt
▲	吊环螺栓 Removable strap handles
■	螺牙式活动提把 Thread

提把型式 Handle type	型号 Model Number	外部尺寸 Outer Dimension						
		能力 Cylinder Capacity	扬程 Stroke	最大出力 Max. Cylinder Capacity		本身高 Coll. Ht.	总重 Wt.	
				推 push	拉 pull			
(O)	(S)	ton(kN)	(mm)	(kN)		A (mm)	(kg)	
	RR-1010	10	254	101	33	409	12	
	RR-1012	(101)	305	101	33	457	14	
	RR-308	30	209	295	133	387	18	
	RR-3014	(295)	368	295	133	549	29	
	▲ RR-506	50 (498)	156	498	150	331	30	
	▲ RR-5013		334	498	150	509	52	
	▲ RR-5020		511	498	150	733	68	
	▲ RR-756	75 (718)	156	718	220	347	41	
	▲ RR-7513		333	718	220	525	68	
	★ RR-1006	95 (933)	168	933	435	357	61	
	★ RR-10013		333	933	435	524	93	
	▲ ★ RR-10018		460	933	435	687	117	
	▲ ★ RR-1502	140 (1386)	57	1386	668	196	49	
	▲ ★ RR-1506		156	1386	668	385	93	
	▲ ★ RR-15013		333	1386	668	563	124	
	▲ ★ RR-15032		815	1386	668	1116	238	
	▲ ★ RR-2006	200 (1995)	152	1995	1017	430	147	
	▲ ★ RR-20013		330	1995	1017	608	199	
	▲ ★ RR-20018		457	1995	1017	765	232	
	▲ ★ RR-20024		610	1995	1017	917	279	
	▲ ★ RR-20036		914	1995	1017	1222	383	
	▲ ★ RR-20048		1219	1995	1017	1527	483	
	★ RR-3006		325 (3201)	153	3201	1703	485	245
	★ RR-30012			305	3201	1703	638	312
	★ RR-30018	457		3201	1703	790	385	
	★ RR-30024	609		3201	1703	943	469	
	★ RR-30036	915		3201	1703	1247	628	
	★ RR-30048	1219		3201	1703	1552	780	
	★ RR-4006	440 (4292)		152	4292	2297	538	303
	★ RR-40012			305	4292	2297	690	399
	★ RR-40018		457	4292	2297	843	453	
	★ RR-40024		610	4292	2297	995	597	
	★ RR-40036		914	4292	2297	1300	792	
	★ RR-40048		1219	4292	2297	1605	980	
	★ RR-5006		520 (5108)	153	5108	2838	577	432
	★ RR-50012			305	5108	2838	730	589
	★ RR-50018	457		5108	2838	882	680	
	★ RR-50024	609		5108	2838	1035	816	
	★ RR-50036	915		5108	2838	1339	1002	
	★ RR-50048	1219		5108	2838	1644	1224	

### 垫块/鞍座 Saddle

- RR-系列均配有高硬度可移除式沟槽垫块于起重时具防滑作用。偏心起重时请选用倾斜垫块。
- 选配之倾斜垫块请参阅选择对照资讯。

※ RR-Series are equipped with hardened removable "Ribbed saddles" to prevent slippage during jacking. For off-center loading application, see optional tilting saddle.

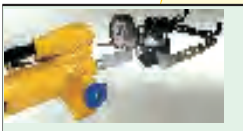
※ For information on optional tilt saddles, see selection chart.



### 液压泵 Pump Selection

双动液压千斤顶必须搭配具4口阀门的液压泵。

A double-acting cylinder must be powered by a pump with a 4-way valve.



### CLRG系列 CLRG Series

- 倘若您使用状态并非高循环重复使用，建议您 CLRG是更经济实惠的选择。

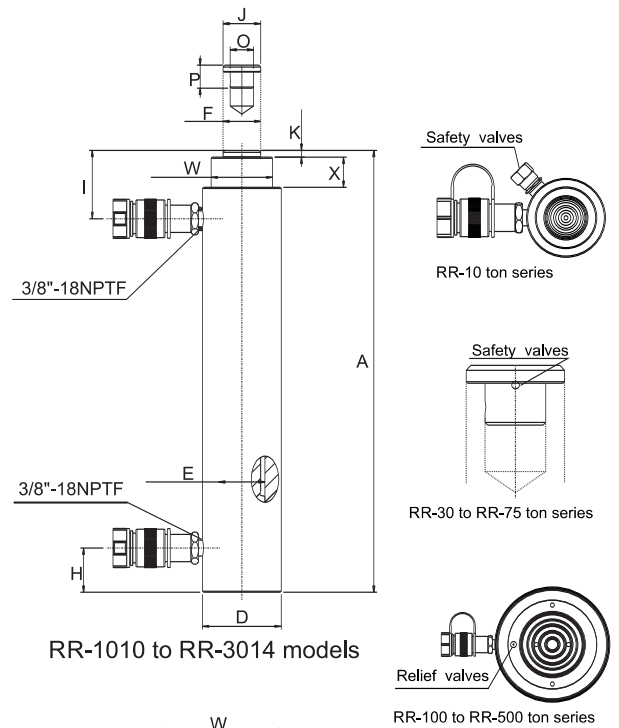
※ If you do not have a high cycle application, CLRG-Series may be the right alternative.



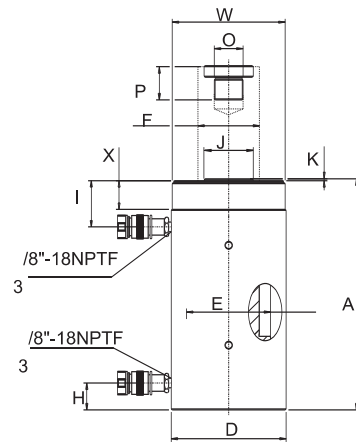
型号 Model Number	外部尺寸 Outer Dimension															
	扬程 Stroke (mm)	最大出力 Max. Cyl. Cap.		受压面积 Cylinder Eff. Area		总油量 Oil Cap.		本身高 Coll. Ht. A (mm)	伸长 总高 Ext. Ht. (mm)	外径 Out. Diam. D (mm)	内径 Cyl. Bore Diam. E (mm)	主轴 直径 Plngr. Diam. F (mm)	底部前进 油孔位置 Base to Adv. Port H (mm)	顶部回油 油孔位置 Top to Ret. Port I (mm)	垫块 直径 Saddle Diam. J (mm)	凸出高度 Saddle Protr. fr. Plngr. K (mm)
		推 push	拉 pull	推 push	拉 pull	推 push	拉 pull									
	(kN)	(cm <sup>2</sup> )	(cm <sup>3</sup> )													
RR-1010	254	101	33	14.5	4.8	368	122	409	663	73	42.9	34.9	36	57	35	6
RR-1012	305	101	33	14.5	4.8	442	147	457	762	73	42.9	34.9	36	57	35	6
RR-308	209	295	133	42.1	19.1	879	400	387	596	101	73.2	54.1	57	81	50	10
RR-3014	368	295	133	42.1	19.1	1549	703	549	917	101	73.2	54.1	57	81	50	10
RR-506	156	498	150	71.2	21.5	1111	335	331	487	127	95.2	79.5	28	76	71	2
RR-5013	334	498	150	71.2	21.5	2378	718	509	843	127	95.2	79.5	28	76	71	2
RR-5020	511	498	150	71.2	21.5	3638	1099	733	1244	127	95.2	79.5	57	76	71	2
RR-756	156	718	220	102.6	31.4	1601	490	347	503	146	114.3	95.2	30	76	71	6
RR-7513	333	718	220	102.6	31.4	3417	1046	525	858	146	114.3	95.2	30	81	71	6
RR-1006	168	933	435	133.3	62.2	2238	1045	357	525	177	130.3	95.2	38	71	76	3
RR-10013	333	933	435	133.3	62.2	4439	2071	524	857	177	130.3	95.2	38	71	76	3
RR-10018	460	933	435	133.3	62.2	6132	2861	687	1147	177	130.3	95.2	41	92	76	3
RR-1502	57	1386	668	198.1	95.4	1129	544	196	253	203	158.8	114.3	22	66	93	19
RR-1506	156	1386	668	198.1	95.4	3090	1488	385	541	203	158.8	114.3	49	84	114	19
RR-15013	333	1386	668	198.1	95.4	6597	3177	563	897	203	158.8	114.3	49	84	114	19
RR-15032	815	1386	668	198.1	95.4	16145	7775	1116	1931	203	158.8	114.3	76	88	114	19
RR-2006	152	1995	1017	285.0	145.3	4332	2209	430	582	247	190.5	133.4	57	96	133	22
RR-20013	330	1995	1017	285.0	145.3	9405	4795	608	938	247	190.5	133.4	57	96	133	22
RR-20018	457	1995	1017	285.0	145.3	13025	6640	765	1222	247	190.5	133.4	85	101	133	22
RR-20024	610	1995	1017	285.0	145.3	17385	8863	917	1527	247	190.5	133.4	85	101	133	22
RR-20036	914	1995	1017	285.0	145.3	26049	13280	1222	2136	247	190.5	133.4	85	101	133	22
RR-20048	1219	1995	1017	285.0	145.3	34741	17712	1527	2746	247	190.5	133.4	85	101	133	22
RR-3006	153	3201	1703	457.3	243.2	6997	3721	485	638	320	241.3	165.1	88	114	165	28
RR-30012	305	3201	1703	457.3	243.2	13947	7418	638	943	320	241.3	165.1	88	114	165	28
RR-30018	457	3201	1703	457.3	243.2	20889	11114	790	1247	320	241.3	165.1	88	114	165	28
RR-30024	609	3201	1703	457.3	243.2	27850	14811	943	1552	320	241.3	165.1	88	114	165	28
RR-30036	915	3201	1703	457.3	243.2	41843	22253	1247	2162	320	241.3	165.1	88	114	165	28
RR-30048	1219	3201	1703	457.3	243.2	55745	29646	1552	2771	320	241.3	165.1	88	114	165	28
RR-4006	152	4292	2297	613.1	328.1	9319	4987	538	690	358	279.4	190.5	108	133	190	28
RR-40012	305	4292	2297	613.1	328.1	18700	10007	690	995	358	279.4	190.5	108	133	190	28
RR-40018	457	4292	2297	613.1	328.1	28018	14995	843	1300	358	279.4	190.5	108	133	190	28
RR-40024	610	4292	2297	613.1	328.1	37400	20014	995	1605	358	279.4	190.5	108	133	190	28
RR-40036	914	4292	2297	613.1	328.1	56037	29988	1300	2214	358	279.4	190.5	108	133	190	28
RR-40048	1219	4292	2297	613.1	328.1	74737	39996	1605	2824	358	279.4	190.5	108	133	190	28
RR-5006	153	5108	2838	729.7	405.4	11164	6203	577	730	397	304.8	203.2	120	152	203	28
RR-50012	305	5108	2838	729.7	405.4	22256	12365	730	1035	397	304.8	203.2	120	152	203	28
RR-50018	457	5108	2838	729.7	405.4	33347	18526	882	1339	397	304.8	203.2	120	152	203	28
RR-50024	609	5108	2838	729.7	405.4	44440	24689	1035	1644	397	304.8	203.2	120	152	203	28
RR-50036	915	5108	2838	729.7	405.4	66768	36973	1339	2254	397	304.8	203.2	120	152	203	28
RR-50048	1219	5108	2838	729.7	405.4	88951	49418	1644	2863	397	304.8	203.2	120	152	203	28

RR-1010 and RR-1012 : N=32mm ; RR-308 and RR-3014 : N=55mm

型号 Model Number	牙纹尺寸 Threads Dimension				底座螺孔 Base Mounting Holes		
	主轴内牙 Plunger Internal Thread	内牙深度 Plunger Thread Length	油缸外牙 Collar Thread	外牙长度 Collar Thread Length	底孔孔距 Bolt Circle Diam. U (mm)	底座螺纹 Thread V (in)	螺纹深度 Thread Depth Z (mm)
	O (in)	P (mm)	W (in)	X (mm)			
RR-1010	1"-8	25	2 1/4"-14	26	—	—	—
RR-1012	1"-8	25	2 1/4"-14	26	—	—	—
RR-308	1 1/2"-16	25	3 5/16"-12	49	—	—	—
RR-3014	1 1/2"-16	25	3 5/16"-12	49	—	—	—
RR-506	1"-12	25	5"-12	50	—	—	—
RR-5013	1"-12	25	5"-12	50	—	—	—
RR-5020	1"-12	25	5"-12	50	76	1/2"-13	25
RR-756	1"-12	38	5 3/4"-12	38	—	—	—
RR-7513	1"-12	38	5 3/4"-12	38	—	—	—
RR-1006	1 3/4"-12	35	6 7/8"-12	50	139	3/4"-10	25
RR-10013	1 3/4"-12	35	6 7/8"-12	50	139	3/4"-10	25
RR-10018	1 3/4"-12	35	6 7/8"-12	50	139	3/4"-10	25
RR-1502	—	—	—	—	—	—	—
RR-1506	3 3/8"-16	35	8"-12	60	158	3/4"-16	28
RR-15013	3 3/8"-16	35	8"-12	60	158	3/4"-16	28
RR-15032	3 3/8"-16	35	8"-12	60	—	—	—
RR-2006	—	—	—	—	127	1"-8	25
RR-20013	2 1/2"-12	63	9 3/4"-12	54	127	1"-8	25
RR-20018	2 1/2"-12	63	9 3/4"-12	54	127	1"-8	25
RR-20024	2 1/2"-12	63	9 3/4"-12	54	127	1"-8	25
RR-20036	2 1/2"-12	63	9 3/4"-12	54	127	1"-8	25
RR-20048	2 1/2"-12	63	9 3/4"-12	54	127	1"-8	25
RR-3006	2 1/2"-12	82	12 1/4"-12	58	158	1 1/4"-7	44
RR-30012	2 1/2"-12	82	12 1/4"-12	58	158	1 1/4"-7	44
RR-30018	2 1/2"-12	82	12 1/4"-12	58	158	1 1/4"-7	44
RR-30024	2 1/2"-12	82	12 1/4"-12	58	158	1 1/4"-7	44
RR-30036	2 1/2"-12	82	12 1/4"-12	58	158	1 1/4"-7	44
RR-30048	2 1/2"-12	82	12 1/4"-12	58	158	1 1/4"-7	44
RR-4006	3"-12	95	14 1/8"-8	65	203	1 1/2"-6	50
RR-40012	3"-12	95	14 1/8"-8	65	203	1 1/2"-6	50
RR-40018	3"-12	95	14 1/8"-8	65	203	1 1/2"-6	50
RR-40024	3"-12	95	14 1/8"-8	65	203	1 1/2"-6	50
RR-40036	3"-12	95	14 1/8"-8	65	203	1 1/2"-6	50
RR-40048	3"-12	95	14 1/8"-8	65	203	1 1/2"-6	50
RR-5006	3 1/4"-12	108	15 5/8"-8	79	203	1 3/4"-5	54
RR-50012	3 1/4"-12	108	15 5/8"-8	79	203	1 3/4"-5	54
RR-50018	3 1/4"-12	108	15 5/8"-8	79	203	1 3/4"-5	54
RR-50024	3 1/4"-12	108	15 5/8"-8	79	203	1 3/4"-5	54
RR-50036	3 1/4"-12	108	15 5/8"-8	79	203	1 3/4"-5	54
RR-50048	3 1/4"-12	108	15 5/8"-8	79	203	1 3/4"-5	54

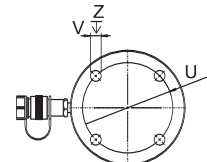


RR-1010 to RR-3014 models

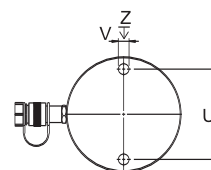


RR-506 to RR-50048 models

No mounting hole on  
RR-506/ 5013 /  
756 / 7513 / 1502 / 15032

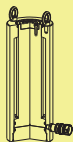


RR-1006 to RR-30048 models



RR-5020/  
RR-4006 to RR-50048 models

## CLSG Series



Capacity:  
50-1,000 ton

Stroke:  
50-300 mm

Maximum Operating Pressure:  
700 bar

## CLSG 液压单动，高吨位千斤顶

- CLSG系列均具底座螺孔。
- 单动重力回缩。
- 主轴及液压缸内壁硬铬处理耐磨、抗腐蚀。
- 防尘环减少污染物附着。
- 整体性上螺帽保护主轴超扬升。
- 表面粉体涂装美观抗腐蚀、防锈。
- 各型号均含SQB-3/8UF快速接头及防尘盖。

### Single-Acting, High Tonnage Cylinders

- ※ Base mounting holes standard on all models.
- ※ Single-acting, load return
- ※ Hard chrome plated plunger and inner of barrel resists wear and corrosion.
- ※ Plunger wiper reduces contamination, extending cylinder life.
- ※ Integral stop ring provides piston blow-out protection
- ※ Powder coat finish for increased corrosion resistance and antirust.
- ※ Come with SQB-3/8UF female coupler & dust cap.



	焊提把 Weldable
	吊环螺栓 Eyebolt
	活动提把 Removable strap handles
	螺牙式活动提把 Thread

#### 提把型式 Handle type

(S): 标准配件 standard equipped

(O): 选配 option

- 焊提把 Weldable
- ★ 活动提把 Eyebolt
- ▲ 吊环螺栓 Removable strap handles
- 螺牙式活动提把 Thread

### 垫块/鞍座 Saddle

- CLSG-系列均配有高硬度可移除式沟槽式垫块于起重时具防滑作用。



- 选配之倾斜垫块请参阅选择对照资讯。

- ※ CLSG-Series are equipped with hardened removable "Ribbed saddles" to prevent slippage during jacking.
- For off-center loading application, see optional tilting saddle.
- ※ For information on optional tilt saddles,

### 油压缸能力选择 Cylinder Capacity

- 高于1000吨以上油压缸亦提供制造。

- ※ More above 1000 tons cylinder capacity are also available.

### 底座螺孔方位

#### Mounting Hole Direction

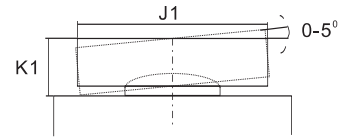
- 上方底座螺孔依据油孔位置设定方位。
- 下方底座螺孔则依本厂设计设定方位。

- ※ Top mounting hole orientation is maintained to port location.
- ※ Bases mounting hole orientation is not maintained to port location.

### 大吨数、低高度时 Low Height-High Tonnage

- 当初次使用于空间受限环境时，同时需要大吨位数能力，而高度低的油压缸时，扁平锁帽型千斤顶提供更优质的选择。

- ※ When low height with high force is required, load return with lock ring Cyl. Offer the solution to lift the first few inches.



提把型式 Handle type	型号 Model Number	能力 Cylinder Cap.	扬程 Stroke	受压面积 Effective Area	本身高 Coll. Height	重量 Weight	选配倾斜垫块 Optional Tilt Saddle		
							型号 Model Number	直径 Diam.	高度 Height
(S)		ton(kN)	(mm)	(cm <sup>2</sup> )	A (mm)	(kg)	J1(mm)	K1(mm)	
★	CLSG-502	50 (539)	50	77.0	162	17	XKCATG-50	50	24
★	CLSG-504		100	77.0	212	20	XKCATG-50	50	24
★	CLSG-506		150	77.0	262	23	XKCATG-50	50	24
★	CLSG-508		200	77.0	312	27	XKCATG-50	50	24
★	CLSG-5010		250	77.0	362	31	XKCATG-50	50	24
★	CLSG-5012		300	77.0	412	34	XKCATG-50	50	24
★	CLSG-1002	100 (929)	50	132.7	182	19	XKCATG-100	73	29
★	CLSG-1004		100	132.7	232	29	XKCATG-100	73	29
★	CLSG-1006		150	132.7	282	40	XKCATG-100	73	29
★	CLSG-1008		200	132.7	332	50	XKCATG-100	73	29
★	CLSG-10010		250	132.7	382	61	XKCATG-100	73	29
★	CLSG-10012		300	132.7	432	71	XKCATG-100	73	29
★	CLSG-1502	150 (1390)	50	198.6	196	39	XKCATG-150	91	31
★	CLSG-1504		100	198.6	246	52	XKCATG-150	91	31
★	CLSG-1506		150	198.6	296	65	XKCATG-150	91	31
★	CLSG-1508		200	198.6	346	78	XKCATG-150	91	31
★	CLSG-15010		250	198.6	396	92	XKCATG-150	91	31
★	CLSG-15012		300	198.6	446	105	XKCATG-150	91	31
★	CLSG-2002	200 (1861)	50	265.9	216	68	XKCATG-200	113	35
★	CLSG-2006		150	265.9	316	91	XKCATG-200	113	35
★	CLSG-20012		300	265.9	466	146	XKCATG-200	113	35
★	CLSG-2502	250 (2565)	50	366.4	235	102	XKCATG-250	144	46
★	CLSG-2506		150	366.4	335	136	XKCATG-250	144	46
★	CLSG-25012		300	366.4	485	207	XKCATG-250	144	46
★	CLSG-3002	300 (3193)	50	456.2	312	184	XKCATG-300	160	62
★	CLSG-3006		150	456.2	412	232	XKCATG-300	160	62
★	CLSG-30012		300	456.2	562	303	XKCATG-300	160	62
★	CLSG-4002	400 (3919)	50	559.9	375	270	XKCATG-400	193	51
★	CLSG-4006		150	559.9	475	330	XKCATG-400	193	51
★	CLSG-40012		300	559.9	625	421	XKCATG-400	193	51
★	CLSG-5002	500 (5114)	50	730.6	419	401	XKCATG-500	228	63
★	CLSG-5006		150	730.6	519	480	XKCATG-500	228	63
★	CLSG-50012		300	730.6	669	599	XKCATG-500	228	63
★	CLSG-6002	600 (5987)	50	855.3	429	474	XKCATG-600	241	76
★	CLSG-6006		150	855.3	529	565	XKCATG-600	241	76
★	CLSG-60012		300	855.3	679	701	XKCATG-600	241	76
★	CLSG-8002	800 (8234)	50	1176.3	474	741	XKCATG-800	287	75
★	CLSG-8006		150	1176.3	574	880	XKCATG-800	287	75
★	CLSG-80012		300	1176.3	724	1058	XKCATG-800	287	75
							标准倾斜垫块 Equipped Tilt Saddle		
★	CLSG-10002	1000 (10260)	50	1465.7	564	1062	XKCATG-1000	311	93
★	CLSG-10006		150	1465.7	664	1213	XKCATG-1000	311	93
★	CLSG-100012		300	1465.7	814	1439	XKCATG-1000	311	93



**选配说明**  
假如您需要选配其他要求于您所定制的千斤顶/油压缸上，请依下列规范字尾增加编号

油缸外牙：CT

案例：  
CLSG-502选配油缸外牙，订制型号改为CLSG-502CT

### Opt Features

To add optional features to order cylinder, add follow suffixes to the end of the model No..

Collar Thread：CT

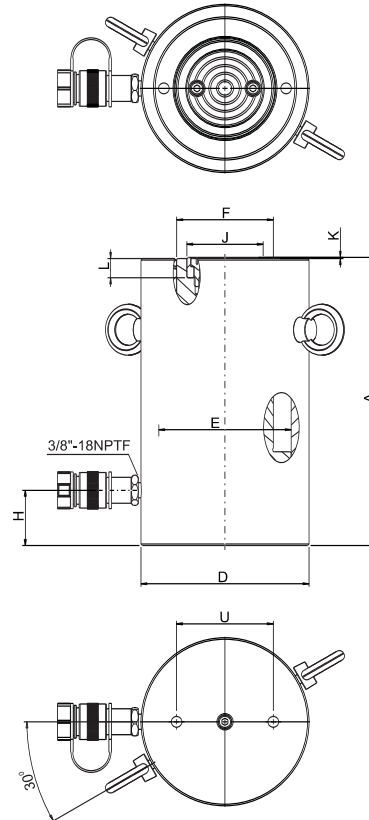
### Example：

CLSG-502 with collar thread, order:CLSG-502CT.

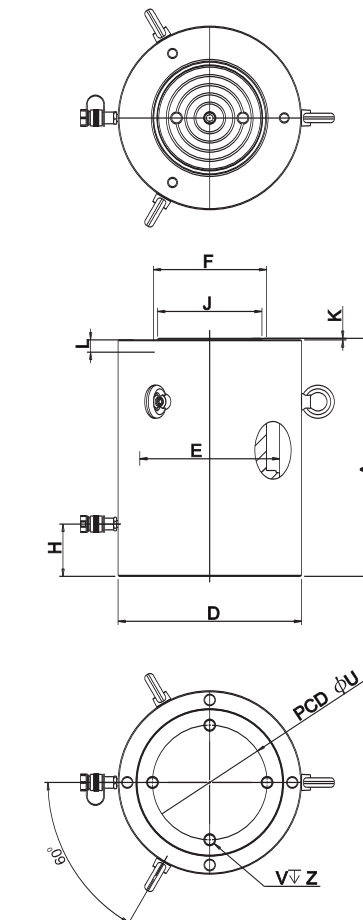
型号 Model Number	能力 Cylinder Cap. ton(kN)	外部尺寸 Outer Dimension									
		扬程 Stroke	受压面积 Effective Area	总油量 Oil Cap.	本身高 Coll. Height	伸长总高 Ext. Height	外径 Outside Diam.	内径 Bore Diam.	主轴直径 Plunger Diam.	底部前进油孔位置 Base to Advance Port	垫块直径 Standard Saddle Diam.
		(mm)	(cm <sup>2</sup> )	(cm <sup>3</sup> )	A (mm)	(mm)	D (mm)	E (mm)	F (mm)	H (mm)	J (mm)
CLSG-502	50 (539)	50	77.0	385	162	212	130	98.6	70.0	42	50
CLSG-504		100	77.0	770	212	312	130	98.6	70.0	42	50
CLSG-506		150	77.0	1155	262	412	130	98.6	70.0	42	50
CLSG-508		200	77.0	1540	312	512	130	98.6	70.0	42	50
CLSG-5010		250	77.0	1924	362	612	130	98.6	70.0	42	50
CLSG-5012		300	77.0	2309	412	712	130	98.6	70.0	42	50
CLSG-1002	100 (929)	50	132.7	664	182	232	165	130.0	95.0	54	75
CLSG-1004		100	132.7	1327	232	332	165	130.0	95.0	54	75
CLSG-1006		150	132.7	1991	282	432	165	130.0	95.0	54	75
CLSG-1008		200	132.7	2655	332	532	165	130.0	95.0	54	75
CLSG-10010		250	132.7	3318	382	632	165	130.0	95.0	54	75
CLSG-10012		300	132.7	3982	432	732	165	130.0	95.0	54	75
CLSG-1502	150 (1390)	50	198.6	993	196	246	205	159.0	114.0	61	94
CLSG-1504		100	198.6	1986	246	346	205	159.0	114.0	61	94
CLSG-1506		150	198.6	2978	296	446	205	159.0	114.0	61	94
CLSG-1508		200	198.6	3971	346	546	205	159.0	114.0	61	94
CLSG-15010		250	198.6	4964	396	646	205	159.0	114.0	61	94
CLSG-15012		300	198.6	5957	446	746	205	159.0	114.0	61	94
CLSG-2002	200 (1861)	50	265.9	1330	216	266	235	184.0	133.0	67	113
CLSG-2006		150	265.9	3989	316	466	235	184.0	133.0	67	113
CLSG-20012		300	265.9	7977	466	766	235	184.0	133.0	67	113
CLSG-2502	250 (2565)	50	366.4	1832	235	285	275	216.0	165.0	73	145
CLSG-2506		150	366.4	5497	335	485	275	216.0	165.0	73	145
CLSG-25012		300	366.4	10993	485	785	275	216.0	165.0	73	145
CLSG-3002	300 (3193)	50	456.2	2281	312	362	310	241.0	197.0	101	177
CLSG-3006		150	456.2	6843	412	562	310	241.0	197.0	101	177
CLSG-30012		300	456.2	13685	562	862	310	241.0	197.0	101	177
CLSG-4002	400 (3919)	50	559.9	2800	375	425	350	267.0	216.0	114	196
CLSG-4006		150	559.9	8399	475	625	350	267.0	216.0	114	196
CLSG-40012		300	559.9	16797	625	925	350	267.0	216.0	114	196
CLSG-5002	500 (5114)	50	730.6	3653	419	469	400	305.0	248.0	114	228
CLSG-5006		150	730.6	10959	519	669	400	305.0	248.0	114	228
CLSG-50012		300	730.6	21918	669	969	400	305.0	248.0	114	228
CLSG-6002	600 (5987)	50	855.3	4276	429	479	430	330.0	267.0	114	247
CLSG-6006		150	855.3	12829	529	679	430	330.0	267.0	114	247
CLSG-60012		300	855.3	25659	679	979	430	330.0	267.0	114	247
CLSG-8002	800 (8234)	50	1176.3	5881	474	524	505	387.0	317.0	149	297
CLSG-8006		150	1176.3	17644	574	724	505	387.0	317.0	149	297
CLSG-80012		300	1176.3	35288	724	1024	505	387.0	317.0	149	297
CLSG-10002	1000 (10260)	50	1465.7	7329	564	614	560	432.0	343.0	174	323
CLSG-10006		150	1465.7	21986	664	814	560	432.0	343.0	174	323
CLSG-100012		300	1465.7	43972	814	1114	560	432.0	343.0	174	323



外部尺寸 Outer Dimension			底座螺孔 Base Mounting Holes		
凸出高度 Saddle Protrusion from Plngr.	主轴孔深度 Depth of Plunger Hole	重量 Weight	底孔孔距 Bolt Cir. Diam. U (mm)	底座螺纹 Thread V (mm)	螺纹深度 Thread Depth Z (mm)
K (mm)	L (mm)	(kg)			
1	19	17	65	2xM12	22
1	19	20	65	2xM12	22
1	19	23	65	2xM12	22
1	19	27	65	2xM12	22
1	19	31	65	2xM12	22
1	19	34	65	2xM12	22
1	19	19	95	2xM12	22
1	19	29	95	2xM12	22
1	19	40	95	2xM12	22
1	19	50	95	2xM12	22
1	19	61	95	2xM12	22
1	19	71	95	2xM12	22
1	19	39	130	2xM12	22
1	19	52	130	2xM12	22
1	19	65	130	2xM12	22
1	19	78	130	2xM12	22
1	19	92	130	2xM12	22
1	19	105	130	2xM12	22
1	24	68	165	4xM12	22
1	24	91	165	4xM12	22
1	24	146	165	4xM12	22
1	24	102	190	3xM12	22
1	24	136	190	3xM12	22
1	24	207	190	3xM12	22
1	19	184	180	3xM16	36
1	19	232	180	3xM16	36
1	19	303	180	3xM16	36
3	27	270	205	3xM16	36
3	27	330	205	3xM16	36
3	27	421	205	3xM16	36
3	27	401	250	3xM24	38
3	27	480	250	3xM24	38
3	27	599	250	3xM24	38
3	27	474	275	3xM24	38
3	27	565	275	3xM24	38
3	27	701	275	3xM24	38
3	27	741	330	3xM24	38
3	27	880	330	3xM24	38
3	27	1058	330	3xM24	38
3	27	1062	375	3xM24	38
3	27	1213	375	3xM24	38
3	27	1439	375	3xM24	38

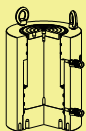


CLSG-50 to CLSG-150 models



CLSG-200 to CLSG-1000 models

## CLRG Series



Capacity:  
50-1,600 ton

Stroke:  
50-300 mm

Maximum Operating Pressure:  
700 bar

## CLRG 液压双动，高吨位千斤顶

- CLRG系列均具底座螺孔。
- 双动推、拉液压回缩。
- 主轴硬铬处理耐磨、抗腐蚀。
- 油压缸的回油油路具回油安全阀装置预防突然超压损害。
- 可替换式的沟槽垫块为标准配件。
- 防尘环减少污染物附着。
- 表面粉体涂装美观抗腐蚀、防锈。
- 各型号均含SQB-3/8UF快速接头及防尘盖。

### Double-Acting, High Tonnage Cylinders

- ※ Base mounting holes standard on all models.
- ※ Double-acting, for push and pull.
- ※ Hard chrome plated plunger resists wear and corrosion.
- ※ Safety valve in retract side of cylinder helps to prevent damage in case of accidental over-pressurization.
- ※ Interchangeable, hardened grooved saddles are standard.
- ※ Plunger wiper reduces contamination, extending cylinder life.
- ※ Powder coat finish for increased corrosion resistance and antirust.
- ※ Come with SQB-3/8UF female coupler & dust cap.



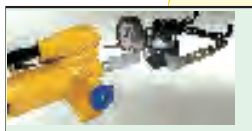
	焊提把 Weldable
	吊环螺栓 Eyebolt
	活动提把 Removable strap handles
	螺牙式活动提把 Thread

#### 提把型式 Handle type

(S) : 标准配件 standard equipped

(O) : 选配 option

- 焊提把 Weldable
- ★ 活动提把 Eyebolt
- ▲ 吊环螺栓 Removable strap handles
- 螺牙式活动提把 Thread



### 液压泵 Pump Selection

双动液压千斤顶必须搭配具4口阀门的液压泵。

A double-acting cylinder must be powered by a pump with a 4-way valve.

### 垫块/鞍座 Saddle

● CLRG-系列均配有高硬度可移除式沟槽式垫块于起重时具防滑作用。



● 选配之倾斜垫块请参阅选择对照资讯。

※ CLSG-Series are equipped with hardened removable "Ribbed saddles" to prevent slippage during jacking.

For off-center loading application, see optional tilting saddle.

※ For information on optional tilt saddles,



### 请勿调整安全阀压力!

适用于双动千斤顶

RR, RRH, CLRG系列

大部分的双动千斤顶安全阀压力设定值为10000psi(700bar)。

超出原厂设定值时，安全阀会喷出液压油保护千斤顶。当安全阀发生漏油状况时请先检查快速接头连接状况。

### Don't adjust safety valve pressure!

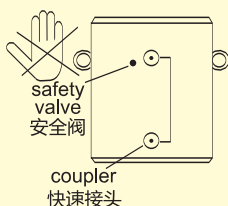
Apply to double-acting cylinder

RR, RRH, CLRG series

Most double-acting cylinder safety valve pressure setting 10000psi(700bar).

As surpasses the original factory hypothesis pressure safety valve will spurt oil to protect cylinder.

Leaking from safety valve, inspect connection of coupler at first.



### 油压缸能力选择 Cylinder Capacity

● 高于1000吨以上油压缸亦提供制造。

※ More above 1000 tons cylinder capacity are also available.

### 底座螺孔方位

#### Mounting Hole Direction

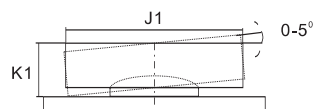
● 上方底座螺孔依据油孔位置设定方位。

● 下方底座螺孔则依本厂设计设定方位。

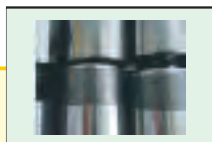
※ Top mounting hole orientation is maintained to port location.

※ Bases mounting hole orientation is not maintained to port location.





提把型式 Handle type	型号 Model Number	能力 Cylinder	扬程 Stroke	最大出力 Max. Cylinder Cap.		本身高 Coll. Height	总重 Weight	选配倾斜垫块 Optional Tilt Saddle		
				推 Push	拉 Pull			型号 Model Number	直径 Diam.	高度 Height
(S)		ton(kN)	(mm)	(kN)		A (mm)	(kg)			
★	CLRG-502	50 (539)	50	539	269	162	17	XKCATG-50	50	24
★	CLRG-504		100	539	269	212	20	XKCATG-50	50	24
★	CLRG-506		150	539	269	262	23	XKCATG-50	50	24
★	CLRG-508		200	539	269	312	27	XKCATG-50	50	24
★	CLRG-5010		250	539	269	362	31	XKCATG-50	50	24
★	CLRG-5012		300	539	269	412	34	XKCATG-50	50	24
★	CLRG-1002	100 (929)	50	929	433	182	29	XKCATG-100	73	29
★	CLRG-1004		100	929	433	232	34	XKCATG-100	73	29
★	CLRG-1006		150	929	433	282	40	XKCATG-100	73	29
★	CLRG-1008		200	929	433	332	46	XKCATG-100	73	29
★	CLRG-10010		250	929	433	382	52	XKCATG-100	73	29
★	CLRG-10012		300	929	433	432	65	XKCATG-100	73	29
★	CLRG-1502	150 (1390)	50	1390	675	196	39	XKCATG-150	91	31
★	CLRG-1504		100	1390	675	246	52	XKCATG-150	91	31
★	CLRG-1506		150	1390	675	296	65	XKCATG-150	91	31
★	CLRG-1508		200	1390	675	346	78	XKCATG-150	91	31
★	CLRG-15010		250	1390	675	396	92	XKCATG-150	91	31
★	CLRG-15012		300	1390	675	446	105	XKCATG-150	91	31
★	CLRG-2002	200 (1861)	50	1861	889	216	55	XKCATG-200	113	35
★	CLRG-2006		150	1861	889	316	91	XKCATG-200	113	35
★	CLRG-20012		300	1861	889	466	146	XKCATG-200	113	35
★	CLRG-2502	250 (2565)	50	2565	1068	235	102	XKCATG-250	144	46
★	CLRG-2506		150	2565	1068	335	136	XKCATG-250	144	46
★	CLRG-25012		300	2565	1068	485	207	XKCATG-250	144	46
★	CLRG-3002	300 (3193)	50	3193	1060	312	184	XKCATG-300	160	62
★	CLRG-3006		150	3193	1060	412	232	XKCATG-300	160	62
★	CLRG-30012		300	3193	1060	562	303	XKCATG-300	160	62
★	CLRG-4002	400 (3919)	50	3919	1354	375	270	XKCATG-400	193	51
★	CLRG-4006		150	3919	1354	475	330	XKCATG-400	193	51
★	CLRG-40012		300	3919	1354	625	421	XKCATG-400	193	51
★	CLRG-5002	500 (5114)	50	5114	1733	419	401	XKCATG-500	228	63
★	CLRG-5006		150	5114	1733	519	480	XKCATG-500	228	63
★	CLRG-50012		300	5114	1733	669	599	XKCATG-500	228	63
★	CLRG-6002	600 (5987)	50	5987	2068	429	474	XKCATG-600	241	76
★	CLRG-6006		150	5987	2068	529	565	XKCATG-600	241	76
★	CLRG-60012		300	5987	2068	679	701	XKCATG-600	241	76
★	CLRG-8002	800 (8234)	50	8234	2709	474	741	XKCATG-800	287	75
★	CLRG-8006		150	8234	2709	574	868	XKCATG-800	287	75
★	CLRG-80012		300	8234	2709	724	1058	XKCATG-800	287	75
								标准倾斜垫块 Equipped Tilt Saddle		
★	CLRG-10002	1000 (10260)	50	10260	3792	564	1062	XKCATG-1000	311	93
★	CLRG-10006		150	10260	3792	664	1213	XKCATG-1000	311	93
★	CLRG-100012		300	10260	3792	814	1439	XKCATG-1000	311	93
★	CLRG-16006	1600 (16024)	155	16024	4891	825	2179	XKCATG-1600	385	125



### 选配说明

假如您需要选配其他要求于您所定制的千斤顶/油缸上, 请依下列规范字尾增加编号

油缸外牙: CT

主轴内牙: PT

油缸外牙+主轴内牙: CPT

### 案例:

CLRG-502选配油缸外牙及主轴内牙, 订制型号改为CLRG-502CPT

### Opt Features

To add optional features to order cylinder, add follow suffixes to the end of the model No..

Collar Thread:CT

Plunger internal thread:PT

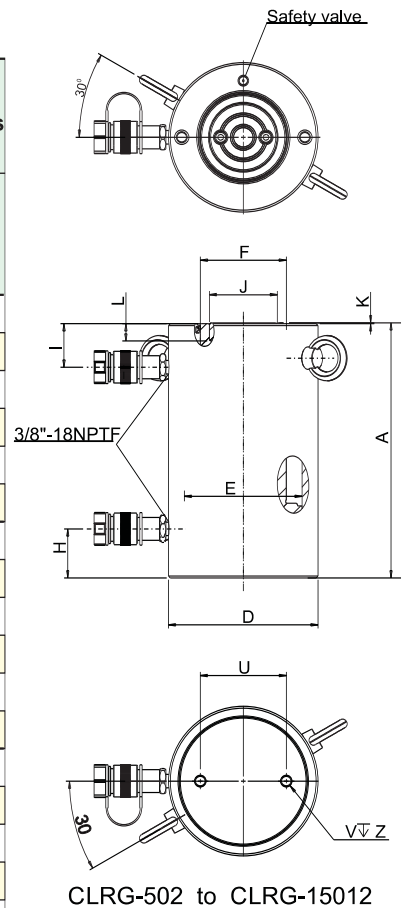
Collar Thread+  
Plunger internal thread:CPT

### Example:

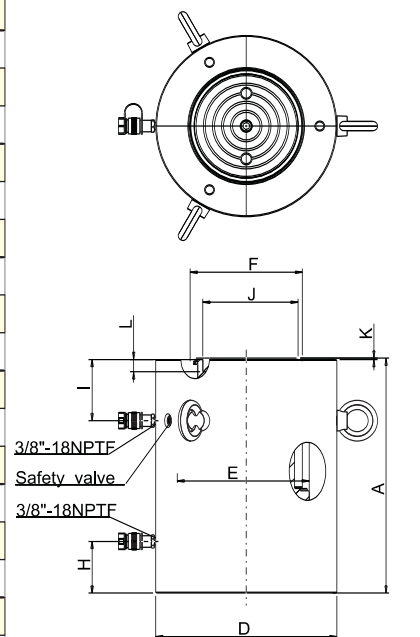
CLSG-502 with collar and plunger internal thread, order:CLSG-502CPT.

型号 Model Number	外部尺寸 Outer Dimension												
	能力 Cylinder Cap.	扬程 Stroke	最大出力 Max. Cylinder Cap.		受压面积 Cylinder Effective Area		总油量 Oil Cap.		本身高 Coll. Height	伸长总高 Ext. Height	外径 Outside Diam.	内径 Cyl. Bore Diam.	主轴直径 Plunger Diam.
			推 Push	拉 Pull	推 Push	拉 Pull	推 Push	拉 Pull					
	ton(kN)	(mm)	(kN)		(cm <sup>2</sup> )		(cm <sup>3</sup> )		A (mm)	(mm)	D (mm)	E (mm)	F (mm)
CLRG-502	50 (539)	50	539	269	76.2	37.7	385	192	162	212	130	98.6	70.0
CLRG-504		100	539	269	76.2	37.7	770	385	212	312	130	98.6	70.0
CLRG-506		150	539	269	76.2	37.7	1155	577	262	412	130	98.6	70.0
CLRG-508		200	539	269	76.2	37.7	1540	770	312	512	130	98.6	70.0
CLRG-5010		250	539	269	76.2	37.7	1924	962	362	612	130	98.6	70.0
CLRG-5012		300	539	269	76.2	37.7	2309	1155	412	712	130	98.6	70.0
CLRG-1002	100 (929)	50	929	433	132.7	61.9	664	309	182	232	165	130.0	95.0
CLRG-1004		100	929	433	132.7	61.9	1327	619	232	332	165	130.0	95.0
CLRG-1006		150	929	433	132.7	61.9	1991	928	282	432	165	130.0	95.0
CLRG-1008		200	929	433	132.7	61.9	2655	1237	332	532	165	130.0	95.0
CLRG-10010		250	929	433	132.7	61.9	3318	1546	382	632	165	130.0	95.0
CLRG-10012		300	929	433	132.7	61.9	3982	1856	432	732	165	130.0	95.0
CLRG-1502	150 (1390)	50	1390	675	198.6	96.5	993	482	196	246	205	159.0	114.0
CLRG-1504		100	1390	675	198.6	96.5	1986	965	246	346	205	159.0	114.0
CLRG-1506		150	1390	675	198.6	96.5	2978	1447	296	446	205	159.0	114.0
CLRG-1508		200	1390	675	198.6	96.5	3971	1930	346	546	205	159.0	114.0
CLRG-15010		250	1390	675	198.6	96.5	4964	2412	396	646	205	159.0	114.0
CLRG-15012		300	1390	675	198.6	96.5	5957	2895	446	746	205	159.0	114.0
CLRG-2002	200 (1861)	50	1861	889	265.9	127.0	1330	635	216	266	235	184.0	133.1
CLRG-2006		150	1861	889	265.9	127.0	3989	1905	316	466	235	184.0	133.1
CLRG-20012		300	1861	889	265.9	127.0	7977	3809	466	766	235	184.0	133.1
CLRG-2502	250 (2565)	50	2565	1068	366.4	152.6	1832	763	235	285	275	216.0	165.1
CLRG-2506		150	2565	1068	366.4	152.6	5497	2289	335	485	275	216.0	165.1
CLRG-25012		300	2565	1068	366.4	152.6	10993	4578	485	785	275	216.0	165.1
CLRG-3002	300 (3193)	50	3193	1060	456.2	151.4	2281	757	312	362	310	241.0	197.1
CLRG-3006		150	3193	1060	456.2	151.4	6843	2270	412	562	310	241.0	197.1
CLRG-30012		300	3193	1060	456.2	151.4	13685	4541	562	862	310	241.0	197.1
CLRG-4002	400 (3919)	50	3919	1354	559.9	193.5	2800	967	375	425	350	267.0	216.0
CLRG-4006		150	3919	1354	559.9	193.5	8399	2902	475	625	350	267.0	216.0
CLRG-40012		300	3919	1354	559.9	193.5	16797	5804	625	925	350	267.0	216.0
CLRG-5002	500 (5114)	50	5114	1733	730.6	247.6	3653	1238	419	469	400	305.0	248.0
CLRG-5006		150	5114	1733	730.6	247.6	10959	3713	519	669	400	305.0	248.0
CLRG-50012		300	5114	1733	730.6	247.6	21918	7427	669	969	400	305.0	248.0
CLRG-6002	600 (5987)	50	5987	2068	855.3	295.4	4276	1477	429	479	430	330.0	267.0
CLRG-6006		150	5987	2068	855.3	295.4	12829	4431	529	679	430	330.0	267.0
CLRG-60012		300	5987	2068	855.3	295.4	25659	8862	679	979	430	330.0	267.0
CLRG-8002	800 (8234)	50	8234	2709	1176.3	387.0	5881	1935	474	524	505	387.0	317.0
CLRG-8006		150	8234	2709	1176.3	387.0	17644	5806	574	724	505	387.0	317.0
CLRG-80012		300	8234	2709	1176.3	387.0	35288	11611	724	1024	505	387.0	317.0
CLRG-10002	1000 (10260)	50	10260	3792	1465.7	541.7	7329	2709	564	614	560	432.0	343.0
CLRG-10006		150	10260	3792	1465.7	541.7	21986	8126	664	814	560	432.0	343.0
CLRG-100012		300	10260	3792	1465.7	541.7	43972	16252	814	1114	560	432.0	343.0
CLRG-16006	1600 (16024)	155	16024	4891	2289.1	699.3	35495	10845	825	980	710	540.0	450.0

外部尺寸 Outer Dimension						底座螺孔		
底部前进油孔位置 Base to Advance Port	顶部回油油孔位置 Top to Retract Port	垫块直径 Standard Saddle Diam.	凸出高度 Saddle Protrusion from Plngr.	主轴孔深度 Depth of Plunger Hole	总重 Weight	Base Mounting Hole Dimensions		
H (mm)	I (mm)	J (mm)	K (mm)	L (mm)	(kg)	底座孔距 Bolt Cir. Diam. U (mm)	底座螺纹 Thread V (mm)	螺纹深度 Thread Depth Z (mm)
42	33	50	1	19	17	65	2xM12	22
42	33	50	1	19	20	65	2xM12	22
42	33	50	1	19	23	65	2xM12	22
42	33	50	1	19	27	65	2xM12	22
42	33	50	1	19	31	65	2xM12	22
42	33	50	1	19	34	65	2xM12	22
54	48	75	1	19	29	95	2xM12	22
54	48	75	1	19	34	95	2xM12	22
54	48	75	1	19	40	95	2xM12	22
54	48	75	1	19	46	95	2xM12	22
54	48	75	1	19	52	95	2xM12	22
54	48	75	1	19	65	95	2xM12	22
61	56	94	1	19	39	130	2xM12	22
61	56	94	1	19	52	130	2xM12	22
61	56	94	1	19	65	130	2xM12	22
61	56	94	1	19	78	130	2xM12	22
61	56	94	1	19	92	130	2xM12	22
61	56	94	1	19	105	130	2xM12	22
67	56	113	1	24	55	165	4xM12	22
67	56	113	1	24	91	165	4xM12	22
67	56	113	1	24	146	165	4xM12	22
73	78	145	1	24	102	190	3xM12	22
73	78	145	1	24	136	190	3xM12	22
73	78	145	1	24	207	190	3xM12	22
101	75	177	1	19	184	180	3xM16	36
101	75	177	1	19	232	180	3xM16	36
101	75	177	1	19	303	180	3xM16	36
114	105	196	3	27	270	205	3xM16	36
114	105	196	3	27	330	205	3xM16	36
114	105	196	3	27	421	205	3xM16	36
114	135	228	3	27	401	250	3xM24	38
114	135	228	3	27	480	250	3xM24	38
114	135	228	3	27	599	250	3xM24	38
114	135	247	3	27	474	275	3xM24	38
114	135	247	3	27	565	275	3xM24	38
114	135	247	3	27	701	275	3xM24	38
149	135	297	3	27	741	330	3xM24	38
149	135	297	3	27	868	330	3xM24	38
149	135	297	3	27	1058	330	3xM24	38
174	170	323	3	27	1062	375	3xM24	38
174	170	323	3	27	1213	375	3xM24	38
174	170	323	3	27	1439	375	3xM24	38
205	170	—	—	—	2179	400	3xM24	30

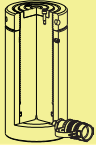


CLRG-502 to CLRG-15012



CLRG-2002 to CLRG-16006

## CLL Series



Capacity:  
50-1,000 ton

Stroke:  
50-300 mm

Maximum Operating Pressure:  
700 bar

## CLL 液压单动，高吨位锁帽千斤顶

- 油压缸内壁硬铬处理耐磨、抗腐蚀。
- 安全锁帽适于长时间荷重支撑。
- 可替换式的沟槽垫块为标准配件。
- 单动重力回缩。
- 扬程极限具溢油孔作用。
- 主轴及紧固螺帽特殊处理，耐磨、抗腐蚀。
- 表面粉体涂装美观抗腐蚀、防锈。
- 各型号均含SQB-3/8UF快速接头及防尘盖。

### Single-Acting, High Tonnage, Lock Nut Cylinders

- ※ Hard chrome plated inner of barrel resists wear and corrosion.
- ※ Safety lock nut for mechanical load holding.
- ※ Interchangeable, hardened grooved saddles are standard.
- ※ Single-acting load return.
- ※ Overflow port functions as a stroke limiter.
- ※ Special coating on piston and lock nut improves corrosion and abrasion resistance.
- ※ Powder coat finish for increased corrosion resistance and antirust.
- ※ Come with SQB-3/8UF female coupler & dust cap.



### 垫块/鞍座 Saddle

- CLL-系列均配有高硬度可移除式沟槽垫块于起重时具防滑作用。偏心起重时请选用倾斜垫块。
- 选配之倾斜垫块请参阅选择对照资讯。
- ※ CLL-Series are equipped with hardened removable "Ribbed saddles" to prevent slippage during jacking. For off-center loading application, see optional tilting saddle.
- ※ For information on optional tilt saddles, see selection chart.



### 特殊润滑处理 Special Lubricant Coating



锁帽  
Lock ring



主轴  
Piston

### 双动设计

CLL系列油压缸可设计成双动样式，订购编号如下：

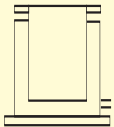
双动系列：CLLR

#### Optional Features

CSLL series cylinder can be designed in Double-acting.

Double-acting : CLLR

## CLLR

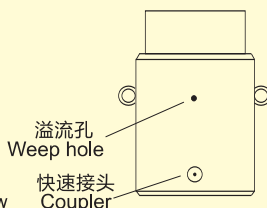


适用于单动，高吨位千斤顶  
CLP, CLL, CLS系列

到达扬程极限时，溢流孔流出液压油。借此警告并保护主轴超扬升。

Apply to Single-acting, High tonnage cyl. CLP, CLL and CLS series

When stroke limit is reached; overflow port ("weep hole") spurt oil to prevents piston from being overextended.



### 其他选配说明

假如您需要选配其他要求于您所订制的千斤顶/油压缸上，请依下列规范字尾增加编号。

回缩弹簧：XF

### 案例：

CLL-502选配回缩弹簧，订制型号改为CLL-502XF

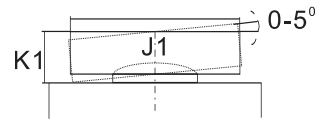
#### Optional Features

To add optional features to your cylinder, add the follow suffixes to the end of the model number.

Spring return : XF

### Example :

CLL-502 with spring return, order: CLL-502XF



- 提把型式 Handle type**
- (S): 标准配件 standard equipped
- (O): 选配 option
- 焊提把 Weldable
  - ★ 活动提把 Eyebolt
  - ▲ 吊环螺栓 Removable strap handles
  - 螺牙式活动提把 Thread

提把型式 Handle type	型号 Model Number	能力 Cylinder Cap.	扬程 Stroke	受压面积 Effective Area	本身高 Coll. Height	总重 Weight	选配倾斜垫块 Optional Tilt Saddle		
							型号 Model Number	直径 Diam.	高度 Height
(S)		ton(kN)	(mm)	(cm <sup>2</sup> )	A (mm)	(kg)	J1(mm)	K1(mm)	
★	CLL-502	50 (496)	50	70.9	164	15	XKCAT-100	71	24
★	CLL-504		100	70.9	214	20	XKCAT-100	71	24
★	CLL-506		150	70.9	264	25	XKCAT-100	71	24
★	CLL-508		200	70.9	314	30	XKCAT-100	71	24
★	CLL-5010		250	70.9	364	35	XKCAT-100	71	24
★	CLL-5012		300	70.9	414	40	XKCAT-100	71	24
★	CLL-1002	100 (929)	50	132.7	187	30	XKCAT-100	71	24
★	CLL-1004		100	132.7	237	39	XKCAT-100	71	24
★	CLL-1006		150	132.7	287	48	XKCAT-100	71	24
★	CLL-1008		200	132.7	337	56	XKCAT-100	71	24
★	CLL-10010		250	132.7	387	64	XKCAT-100	71	24
★	CLL-10012		300	132.7	437	73	XKCAT-100	71	24
★	CLL-1502	150 (1390)	50	198.6	209	53	XKCAT-200	130	20
★	CLL-1504		100	198.6	259	66	XKCAT-200	130	20
★	CLL-1506		150	198.6	309	78	XKCAT-200	130	20
★	CLL-1508		200	198.6	359	92	XKCAT-200	130	20
★	CLL-15010		250	198.6	409	104	XKCAT-200	130	20
★	CLL-15012		300	198.6	459	117	XKCAT-200	130	20
★	CLL-2002	200 (1859)	50	265.6	243	83	XKCAT-200	130	20
★	CLL-2006		150	265.6	343	117	XKCAT-200	130	20
★	CLL-20012		300	265.6	493	170	XKCAT-200	130	20
★	CLL-2502	250 (2562)	50	366.1	249	116	XKCAT-250	150	21
★	CLL-2506		150	366.1	349	162	XKCAT-250	150	21
★	CLL-25012		300	366.1	499	234	XKCAT-250	150	21
★	CLL-3002	300 (3193)	50	456.2	295	173	XKCAT-300	195	75
★	CLL-3006		150	456.2	395	233	XKCAT-300	195	75
★	CLL-30012		300	456.2	545	323	XKCAT-300	195	75
★	CLL-4002	400 (3919)	50	559.9	335	250	XKCAT-400	225	85
★	CLL-4006		150	559.9	435	327	XKCAT-400	225	85
★	CLL-40012		300	559.9	585	441	XKCAT-400	225	85
★	CLL-5002	500 (5118)	50	731.1	375	367	XKCAT-500	250	91
★	CLL-5006		150	731.1	475	466	XKCAT-500	250	91
★	CLL-50012		300	731.1	625	617	XKCAT-500	250	91
★	CLL-6002	600 (5983)	50	854.8	395	446	XKCAT-600	275	96
★	CLL-6006		150	854.8	495	562	XKCAT-600	275	96
★	CLL-60012		300	854.8	645	737	XKCAT-600	275	96
★	CLL-8002	800 (8238)	50	1176.9	455	709	XKCAT-800	320	123
★	CLL-8006		150	1176.9	555	870	XKCAT-800	320	123
★	CLL-80012		300	1176.9	705	1110	XKCAT-800	320	123
★	CLL-10002	1000 (10260)	50	1466.4	495	949	XKCAT-1000	360	136
★	CLL-10006		150	1466.4	595	1141	XKCAT-1000	360	136
★	CLL-100012		300	1466.4	745	1430	XKCAT-1000	360	136



### 大吨数、低高度时 Low Height-High Tonnage

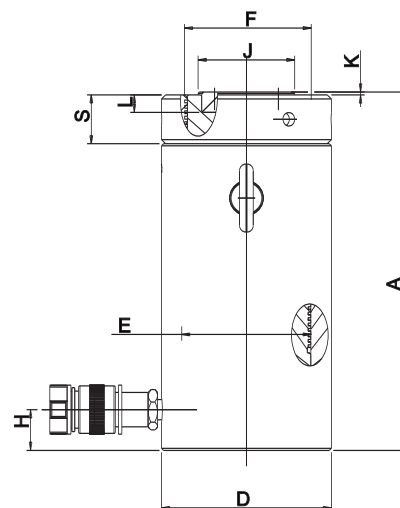
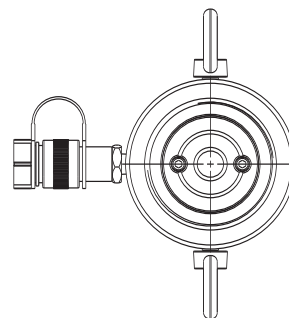
● 当初次使用于空间受限环境时，同时需要大吨位数能力，而高度低的油压缸时，扁平锁帽型千斤顶提供更优质的选择。

※ When low height with high force is required, pancake cylinders with lock nut offer the solution to lift the first few inches.

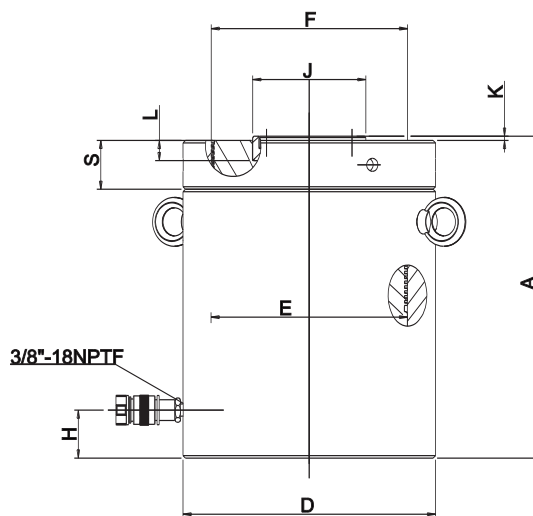
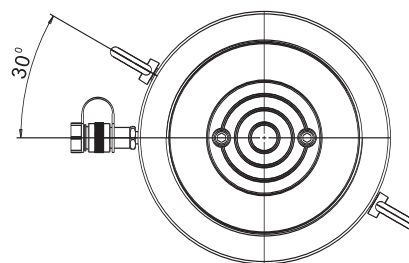
型号 Model Number	外部尺寸 Outer Dimension								
	能力 Cylinder Cap.	扬程 Stroke	受压面积 Effective Area	总油量 Oil Cap.	本身高 Coll. Height	伸长总高 Ext. Height	外径 Outside Diam.	内径 Bore Diam.	主轴直径 Plunger Diam. (threaded)
	ton(kN)	(mm)	(cm <sup>2</sup> )	(cm <sup>3</sup> )	A (mm)	(mm)	D (mm)	E (mm)	F (mm)
CLL-502	50 (496)	50	70.9	355	164	214	125	95.0	Tr95x4
CLL-504		100	70.9	709	214	314	125	95.0	Tr95x4
CLL-506		150	70.9	1064	264	414	125	95.0	Tr95x4
CLL-508		200	70.9	1418	314	514	125	95.0	Tr95x4
CLL-5010		250	70.9	1773	364	614	125	95.0	Tr95x4
CLL-5012		300	70.9	2127	414	714	125	95.0	Tr95x4
CLL-1002	100 (929)	50	132.7	664	187	237	165	130.0	Tr130x6
CLL-1004		100	132.7	1327	237	337	165	130.0	Tr130x6
CLL-1006		150	132.7	1991	287	437	165	130.0	Tr130x6
CLL-1008		200	132.7	2654	337	537	165	130.0	Tr130x6
CLL-10010		250	132.7	3318	387	637	165	130.0	Tr130x6
CLL-10012		300	132.7	3981	437	737	165	130.0	Tr130x6
CLL-1502	150 (1390)	50	198.6	993	209	259	205	159.0	Tr159x6
CLL-1504		100	198.6	1986	259	359	205	159.0	Tr159x6
CLL-1506		150	198.6	2979	309	459	205	159.0	Tr159x6
CLL-1508		200	198.6	3972	359	559	205	159.0	Tr159x6
CLL-15010		250	198.6	4965	409	659	205	159.0	Tr159x6
CLL-15012		300	198.6	5958	459	759	205	159.0	Tr159x6
CLL-2002	200 (1859)	50	265.6	1330	243	293	235	184.0	Tr184x6
CLL-2006		150	265.6	3989	343	493	235	184.0	Tr184x6
CLL-20012		300	265.6	7995	493	793	235	184.0	Tr184x6
CLL-2502	250 (2562)	50	366.1	1832	249	299	275	216.0	Tr216x6
CLL-2506		150	366.1	5496	349	499	275	216.0	Tr216x6
CLL-25012		300	366.1	10976	499	799	275	216.0	Tr216x6
CLL-3002	300 (3193)	50	456.2	2281	295	345	310	241.0	Tr241x6
CLL-3006		150	456.2	6843	395	545	310	241.0	Tr241x6
CLL-30012		300	456.2	13740	545	845	310	241.0	Tr241x6
CLL-4002	400 (3919)	50	559.9	2800	335	385	350	267.0	Tr266x6
CLL-4006		150	559.9	8399	435	585	350	267.0	Tr266x6
CLL-40012		300	559.9	16800	585	885	350	267.0	Tr266x6
CLL-5002	500 (5118)	50	731.1	3653	375	425	400	305.0	Tr305x6
CLL-5006		150	731.1	10967	475	625	400	305.0	Tr305x6
CLL-50012		300	731.1	21930	625	925	400	305.0	Tr305x6
CLL-6002	600 (5983)	50	854.8	4277	395	445	430	330.0	Tr330x6
CLL-6006		150	854.8	12830	495	645	430	330.0	Tr330x6
CLL-60012		300	854.8	25650	645	945	430	330.0	Tr330x6
CLL-8002	800 (8238)	50	1176.9	5882	455	505	505	387.0	Tr387x6
CLL-8006		150	1176.9	17645	555	705	505	387.0	Tr387x6
CLL-80012		300	1176.9	35370	705	1005	505	387.0	Tr387x6
CLL-10002	1000 (10260)	50	1466.4	7329	495	545	560	432.0	Tr432x6
CLL-10006		150	1466.4	21986	595	745	560	432.0	Tr432x6
CLL-100012		300	1466.4	43980	745	1045	560	432.0	Tr432x6



外部尺寸 Outer Dimension					
底部前进油孔位置 Base to Advance Port	垫块直径 Stand. Saddle Diam.	凸出高度 Saddle Protrusion from Plgr.	主轴孔深度 Depth of Plunger Hole	锁帽高度 Lock Nut Height	总重 Weight
H (mm)	J (mm)	K (mm)	L (mm)	S (mm)	(kg)
30	71	2	15	36	15
30	71	2	15	36	20
30	71	2	15	36	25
30	71	2	15	36	30
30	71	2	15	36	35
30	71	2	15	36	40
30	71	2	15	44	30
30	71	2	15	44	39
30	71	2	15	44	48
30	71	2	15	44	56
30	71	2	15	44	64
30	71	2	15	44	73
39	130	2	25	44	53
39	130	2	25	44	66
39	130	2	25	44	78
39	130	2	25	44	92
39	130	2	25	44	104
39	130	2	25	44	117
50	130	2	25	50	83
50	130	2	25	50	117
50	130	2	25	50	170
50	150	2	25	56	116
50	150	2	25	56	162
50	150	2	25	56	234
59	139	5	25	60	173
59	139	5	25	60	233
59	139	5	25	60	323
70	159	5	25	70	250
70	159	5	25	70	327
70	159	5	25	70	441
80	179	5	25	80	367
80	179	5	25	80	466
80	179	5	25	80	617
85	194	5	25	85	446
85	194	5	25	85	562
85	194	5	25	85	737
100	224	5	25	100	709
100	224	5	25	100	870
100	224	5	25	100	1110
110	249	5	25	110	949
110	249	5	25	110	1141
110	249	5	25	110	1430

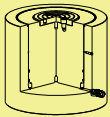


CLL-502 to CLL-25012



CLL-3002 to CLL-100012

## CLS Series



Capacity:  
**50-1,000 ton**

Stroke:  
**50-300 mm**

Maximum Operating Pressure:  
**700 bar**

## CLS 液压单动，高吨位千斤顶

- 型低、高荷重适于狭小空间作业。
- 可替换式的沟槽垫块为标准配件。
- 单动重力回缩。
- 扬程极限时具溢油孔作用。
- 主轴硬铬处理，耐磨、抗腐蚀。
- 防尘环减少污染物附着，增加使用寿命。
- 表面粉体涂装美观抗腐蚀、防锈。
- 各型号均含SQB-3/8UF快速接头及防尘盖。

### Single-Acting, High Tonnage Cylinder

- ※ Lowest collapsed height for use in confined spaces.
- ※ Interchangeable, hardened grooved saddles are standard.
- ※ Single-acting, load return.
- ※ Overflow port functions as a stroke limiter.
- ※ Hard chrome plated plunger resists wear and corrosion.
- ※ Plunger wiper reduces contamination, extending cylinder life.
- ※ Powder coat finish for increased corrosion resistance and antirust.
- ※ Come with SQB-3/8UF female coupler & dust cap.



### 垫块/鞍座 Saddle

- CLS-系列均配有高硬度可移除式沟槽垫块于起重时具防滑作用。偏心起重时请选用倾斜垫块。
- 选配之倾斜垫块请参阅选择对照资讯。
- ※ CLS-Series are equipped with hardened removable "Ribbed saddles" to prevent slippage during jacking. For off-center loading application, see optional tilting saddle.
- ※ For information on optional tilt saddles, see selection chart.



### 油压缸能力选择 Cylinder Capacity

- 高于1000吨以上油压缸亦提供制造。
- ※ More above 1000 tons cylinder capacity are also available.



### 双动设计

CLS系列油压缸可设计成双动样式，订购编号如下：

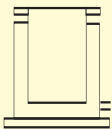
双动系列：CLSR

#### Optional Features

CLS series cylinder can be designed in Double-acting.

Double-acting : CLSR

### CLSR



### 其他选配说明

假如您需要选配其他要求于您所订制的千斤顶/油压缸上，请依下列规范字尾增加编号。

回缩弹簧：XF

#### 案例：

CLS-502选配回缩弹簧，订制型号改为CLS-502XF

#### Optional Features

To add optional features to your cylinder, add the follow suffixes to the end of the model number.

Spring return : XF

#### Example :

CLS-502 with spring return, order: CLS-502XF

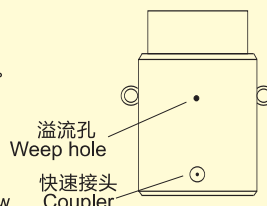


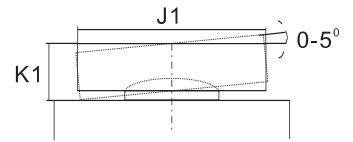
### 适用于单动，高吨位千斤顶 CLP, CLL, CLS系列

到达扬程极限时，溢流孔流出液压力。借此警告并保护主轴超扬升。

Apply to Single-acting, High tonnage cyl. CLP, CLL and CLS series

When stroke limit is reached; overflow port ("weep hole") spurt oil to prevents piston from being overextended.



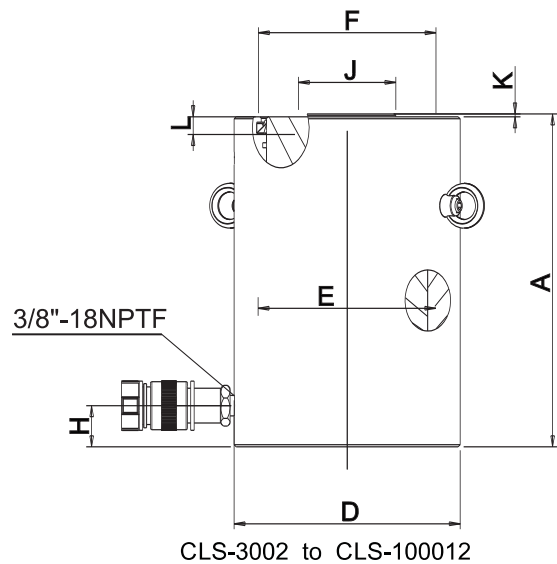
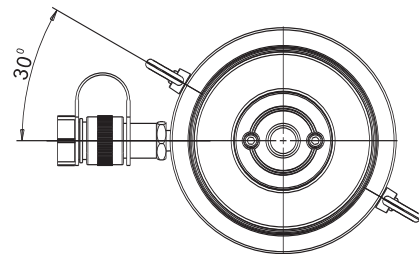
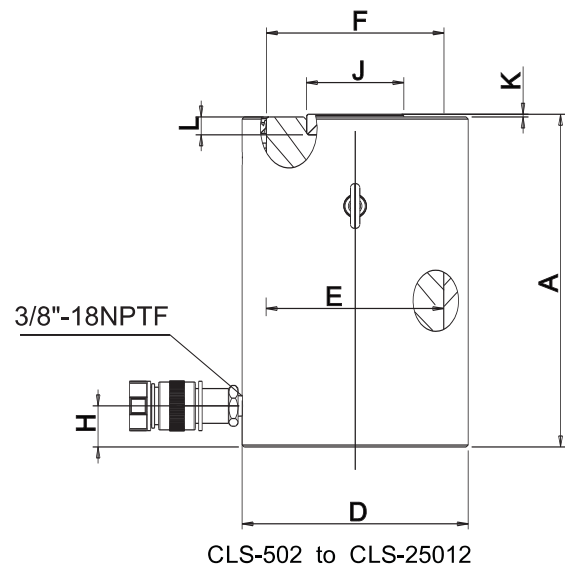
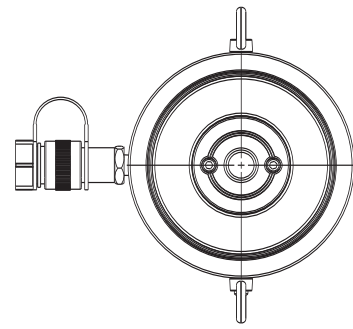


	焊提把 Weldable
	吊环螺栓 Eyebolt
	活动提把 Removable strap handles
	螺牙式活动提把 Thread
<b>提把型式 Handle type</b>	
(S): 标准配件 standard equipped	
(O): 选配 option	
●	焊提把 Weldable
★	活动提把 Eyebolt
▲	吊环螺栓 Removable strap handles
■	螺牙式活动提把 Thread

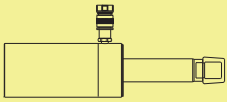
提把型式 Handle type	型号 Model Number	能力 Cylinder Cap.	扬程 Stroke	受压面积 Effective Area	本身高 Coll. Height	总重 Wt.	选配倾斜垫块 Optional Tilt Saddle		
							型号 Model Number	直径 Diam.	高度 Height
(S)		ton(kN)	(mm)	(cm <sup>2</sup> )	A (mm)	(kg)	J1 (mm)	K1 (mm)	
★	CLS-502	50 (496)	50	70.9	128	14	XKCAT-100	71	24
★	CLS-504		100	70.9	178	18	XKCAT-100	71	24
★	CLS-506		150	70.9	228	23	XKCAT-100	71	24
★	CLS-508		200	70.9	278	28	XKCAT-100	71	24
★	CLS-5010		250	70.9	327	33	XKCAT-100	71	24
★	CLS-5012		300	70.9	378	38	XKCAT-100	71	24
★	CLS-1002	100 (929)	50	132.7	143	24	XKCAT-100	71	24
★	CLS-1004		100	132.7	193	32	XKCAT-100	71	24
★	CLS-1006		150	132.7	243	40	XKCAT-100	71	24
★	CLS-1008		200	132.7	293	49	XKCAT-100	71	24
★	CLS-10010		250	132.7	343	58	XKCAT-100	71	24
★	CLS-10012		300	132.7	392	66	XKCAT-100	71	24
★	CLS-1502	150 (1390)	50	198.6	165	43	XKCAT-200	130	20
★	CLS-1504		100	198.6	215	55	XKCAT-200	130	20
★	CLS-1506		150	198.6	265	69	XKCAT-200	130	20
★	CLS-1508		200	198.6	315	82	XKCAT-200	130	20
★	CLS-15010		250	198.6	365	95	XKCAT-200	130	20
★	CLS-15012		300	198.6	414	108	XKCAT-200	130	20
★	CLS-2002	200 (1859)	50	265.6	193	66	XKCAT-200	130	20
★	CLS-2006		150	265.6	293	101	XKCAT-200	130	20
★	CLS-20012		300	265.6	443	154	XKCAT-200	130	20
★	CLS-2502	250 (2562)	50	366.1	193	90	XKCAT-250	150	21
★	CLS-2506		150	366.1	293	137	XKCAT-250	150	21
★	CLS-25012		300	366.1	443	208	XKCAT-250	150	21
★	CLS-3002	300 (3193)	50	456.2	235	137	XKCAT-300	195	75
★	CLS-3006		150	456.2	335	198	XKCAT-300	195	75
★	CLS-30012		300	456.2	485	288	XKCAT-300	195	75
★	CLS-4002	400 (3919)	50	559.9	265	200	XKCAT-400	225	85
★	CLS-4006		150	559.9	365	275	XKCAT-400	225	85
★	CLS-40012		300	559.9	515	390	XKCAT-400	225	85
★	CLS-5002	500 (5118)	50	731.1	295	289	XKCAT-500	250	91
★	CLS-5006		150	731.1	395	390	XKCAT-500	250	91
★	CLS-50012		300	731.1	545	540	XKCAT-500	250	91
★	CLS-6002	600 (5983)	50	854.8	310	350	XKCAT-600	275	96
★	CLS-6006		150	854.8	410	465	XKCAT-600	275	96
★	CLS-60012		300	854.8	560	640	XKCAT-600	275	96
★	CLS-8002	800 (8238)	50	1176.9	355	549	XKCAT-800	320	123
★	CLS-8006		150	1176.9	455	709	XKCAT-800	320	123
★	CLS-80012		300	1176.9	605	950	XKCAT-800	320	123
★	CLS-10002	1000 (10260)	50	1466.4	385	729	XKCAT-1000	360	136
★	CLS-10006		150	1466.4	485	921	XKCAT-1000	360	136
★	CLS-100012		300	1466.4	635	1210	XKCAT-1000	360	136

型号 Model Number	外部尺寸 Outer Dimension								
	能力 Cylinder Cap.	扬程 Stroke	受压面积 Effective Area	总油量 Oil Cap.	本身高 Coll. Height	伸长总高 Ext. Height	外径 Outside Diam.	内径 Bore Diam.	主轴直径 Plunger Diam.
	ton(kN)	(mm)	(cm <sup>2</sup> )	(cm <sup>3</sup> )	A (mm)	(mm)	D (mm)	E (mm)	F (mm)
CLS-502	50 (496)	50	70.9	355	128	178	125	95.0	95.0
CLS-504		100	70.9	709	178	278	125	95.0	95.0
CLS-506		150	70.9	1064	228	378	125	95.0	95.0
CLS-508		200	70.9	1418	278	478	125	95.0	95.0
CLS-5010		250	70.9	1773	327	578	125	95.0	95.0
CLS-5012		300	70.9	2127	378	678	125	95.0	95.0
CLS-1002	100 (929)	50	132.7	664	143	193	165	130.0	130.0
CLS-1004		100	132.7	1327	193	293	165	130.0	130.0
CLS-1006		150	132.7	1991	243	393	165	130.0	130.0
CLS-1008		200	132.7	2654	293	493	165	130.0	130.0
CLS-10010		250	132.7	3318	343	593	165	130.0	130.0
CLS-10012		300	132.7	3981	392	693	165	130.0	130.0
CLS-1502	150 (1390)	50	198.6	993	165	215	205	159.0	159.0
CLS-1504		100	198.6	1986	215	315	205	159.0	159.0
CLS-1506		150	198.6	2979	265	415	205	159.0	159.0
CLS-1508		200	198.6	3972	315	515	205	159.0	159.0
CLS-15010		250	198.6	4965	365	615	205	159.0	159.0
CLS-15012		300	198.6	5958	414	715	205	159.0	159.0
CLS-2002	200 (1859)	50	265.6	1330	193	243	235	183.9	183.9
CLS-2006		150	265.6	3989	293	443	235	183.9	183.9
CLS-20012		300	265.6	7977	443	743	235	183.9	183.9
CLS-2502	250 (2562)	50	366.1	1832	193	243	275	215.9	215.9
CLS-2506		150	366.1	5496	293	443	275	215.9	215.9
CLS-25012		300	366.1	10996	443	743	275	215.9	215.9
CLS-3002	300 (3193)	50	456.2	2281	235	285	310	241.0	241.0
CLS-3006		150	456.2	6843	335	485	310	241.0	241.0
CLS-30012		300	456.2	13710	485	785	310	241.0	241.0
CLS-4002	400 (3919)	50	559.9	2800	265	315	350	267.0	267.0
CLS-4006		150	559.9	8399	365	515	350	267.0	267.0
CLS-40012		300	559.9	16770	515	815	350	267.0	267.0
CLS-5002	500 (5118)	50	731.1	3656	295	345	400	305.1	305.1
CLS-5006		150	731.1	10967	395	545	400	305.1	305.1
CLS-50012		300	731.1	21900	545	845	400	305.1	305.1
CLS-6002	600 (5983)	50	854.8	4277	310	360	430	329.9	329.9
CLS-6006		150	854.8	12830	410	560	430	329.9	329.9
CLS-60012		300	854.8	25710	560	860	430	329.9	329.9
CLS-8002	800 (8238)	50	1176.9	5882	355	405	505	387.1	387.1
CLS-8006		150	1176.9	17645	455	605	505	387.1	387.1
CLS-80012		300	1176.9	35370	605	905	505	387.1	387.1
CLS-10002	1000 (10260)	50	1466.4	7329	385	435	560	432.1	432.1
CLS-10006		150	1466.4	21986	485	635	560	432.1	432.1
CLS-100012		300	1466.4	43950	635	935	560	432.1	432.1

外部尺寸 Outer Dimension				
底部前进油孔位置 Base to Advance Port H (mm)	垫块直径 Standard Saddle Diam. J (mm)	凸出高度 Saddle Protrusion from Plngr. K (mm)	主轴孔深度 Depth of plunger Hole L (mm)	总重 Weight (kg)
30	71	2	15	14
30	71	2	15	18
30	71	2	15	23
30	71	2	15	28
30	71	2	15	33
30	71	2	15	38
30	71	2	15	24
30	71	2	15	32
30	71	2	15	40
30	71	2	15	49
30	71	2	15	58
30	71	2	15	66
39	130	2	25	43
39	130	2	25	55
39	130	2	25	69
39	130	2	25	82
39	130	2	25	95
39	130	2	25	108
50	130	2	25	66
50	130	2	25	101
50	130	2	25	154
50	150	2	25	90
50	150	2	25	137
50	150	2	25	208
59	139	5	25	137
59	139	5	25	198
59	139	5	25	288
70	159	5	25	200
70	159	5	25	275
70	159	5	25	390
80	179	5	25	289
80	179	5	25	390
80	179	5	25	540
85	194	5	25	350
85	194	5	25	465
85	194	5	25	640
100	224	5	25	549
100	224	5	25	709
100	224	5	25	950
110	249	5	25	729
110	249	5	25	921
110	249	5	25	1210



## BRC/BRP Series



Capacity:  
**2.5-50 tons**

Stroke:  
**127-155mm**

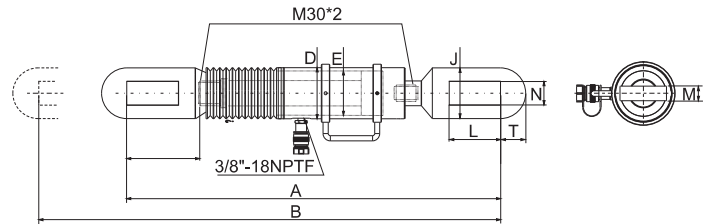
Maximum Operating Pressure:  
**700 bar**

## BRC/BRP 液压单动弹簧回缩，倒拉式千斤顶

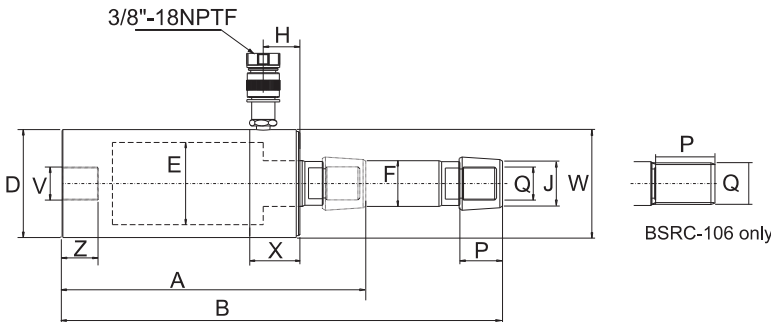
- 高强度合金钢结构。
- 主轴极限设计，保护主轴超扬程。
- 主轴电硬铬延长使用寿命。
- 主轴防尘环防污染增加使用寿命。
- 表面粉体涂装美观抗腐蚀、防锈。
- 各型号均含SQB-3/8UF快速接头及防尘盖。

### Single-Acting, Spring return Pull Cylinders

- ※High strength alloy steel construction.
- ※Plunger blow-out protection to prevent over-extension.
- ※Hard chrome-plated plunger for long life.
- ※Plunger wiper reduces contamination, extending cylinder life.
- ※Powder coat finish for increased corrosion resistance and antirust.
- ※SQB-3/8UF coupler and dust cap are included on all models.



型号 Model Number	外部尺寸 Outer Dimension									连接勾尺寸 Link Dimension				
	能力 Cylinder Capacity	扬程 Stroke	受压面积 Cylinder Effective Area	总油量 Oil Cap.	本身高 Coll. Height	伸长总高 Ext. Height	外径 Outside Diam.	内径 Cylinder Bore Diam.	总重 Wt.	勾高度 Link Ht.	勾开口 Link Opening	勾厚度 Link Thickness	勾宽 Link Width	勾端吊耳 厚度 Slot to Link end
	ton(kN)	(mm)	(cm <sup>2</sup> )	(cm <sup>3</sup> )	A (mm)	B (mm)	D (mm)	E (mm)	(kg)	J (mm)	L (mm)	M (mm)	N (mm)	T (mm)
BRP-106C	10(105)	151	15.7	227	565	739	85	55.0	10.9	120	62	30.2	35	32
BRP-106L	10(105)	151	15.7	227	587	717	85	55.0	15.9	67	115	22.4	30	32
BRP-306	30(326)	155	46.6	709	1085	1237	137	88.9	48.1	114	145	35.1	40	50
BRP-606	50(505)	152	76.0	1154	720	872	140	110.0	53.6	130	150	39.8	50	70



底座螺孔 Cylinder Mounting Dimension				
型号-能力 Cylinder Model/ Capacity (ton)	底部螺孔 Base Mounting Hole V	外牙螺纹 Collar Thread W	外牙长度 Collar Thread Length X (mm)	底螺纹深 Mtg. Thread Length Z (mm)
BRC-25	3/4"-14NPT	1-1/2"-16UN	24	17
BRC-55	1-1/4"-11.5NPT	2-1/4"-14UN	26	24
BRC-106	M30-2	M85-2	25	24

型号 Model Number	外部尺寸 Outer Dimension											牙纹尺寸 Threads Dimension		
	能力 Cylinder Capacity	扬程 Stroke	受压面积 Cylinder Effective Area	总油量 Oil Cap.	本身高 Coll. Height	伸长总高 Ext. Height	外径 Outside Diam.	内径 Cylinder Bore Diam.	主轴直径 Plunger Diam.	顶部进油 油孔位置 Top to inlet. Port	垫块尺寸 Saddle Diam.	总重 Wt.	螺纹深度 Plunger Thread Length P (mm)	主轴螺纹 Plunger Outside Thread Q (mm)
	ton(kN)	(mm)	(cm <sup>2</sup> )	(cm <sup>3</sup> )	A (mm)	(mm)	D (mm)	E (mm)	F (mm)	H (mm)	J (in)	(kg)	(mm)	Q (mm)
BRC-25	2.5(24)	127	3.6	45	265	392	48	28.7	19.1	45	3/4"-14NPT	1.8	28	11/16"-24
BRC-55	5(51)	140	7.3	101	301	441	57	42.9	30.2	42	1-1/4"-11.5NPT	4.5	32	1-3/16"-16
BRC-106	10(105)	151	15.0	228	289	440	85	54.1	31.8	39	—	9.5	25	M30-2

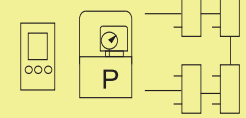
## PSC 同步举升系统

- 可同时监控4~64组荷重及扬程。
- 单位油压缸荷重能力可10~1000吨。
- 全扬程精度高达1mm。
- PLC控制单元，便于操作者使用。
- 资料自动储存。
- 系统理想的安全设定。

### Synchronous Lift System

- ※4 to 64 points, load and stroke monitored and controlled.
- ※Capacities from 10 up to 1000 ton per lifting point.
- ※Up to 1mm accuracy over full plunger stroke.
- ※PLC-control unit with user-friendly touch screen.
- ※Automatic data storage.
- ※System secured with warning and stop features to achieve optimal safety.

### PSC Series



Capacity per Lifting point:  
**10-1000 ton**

Max. Stroke:  
**5000 mm**

Maximum Operating Pressure:  
**700 bar**

#### 系统选配：

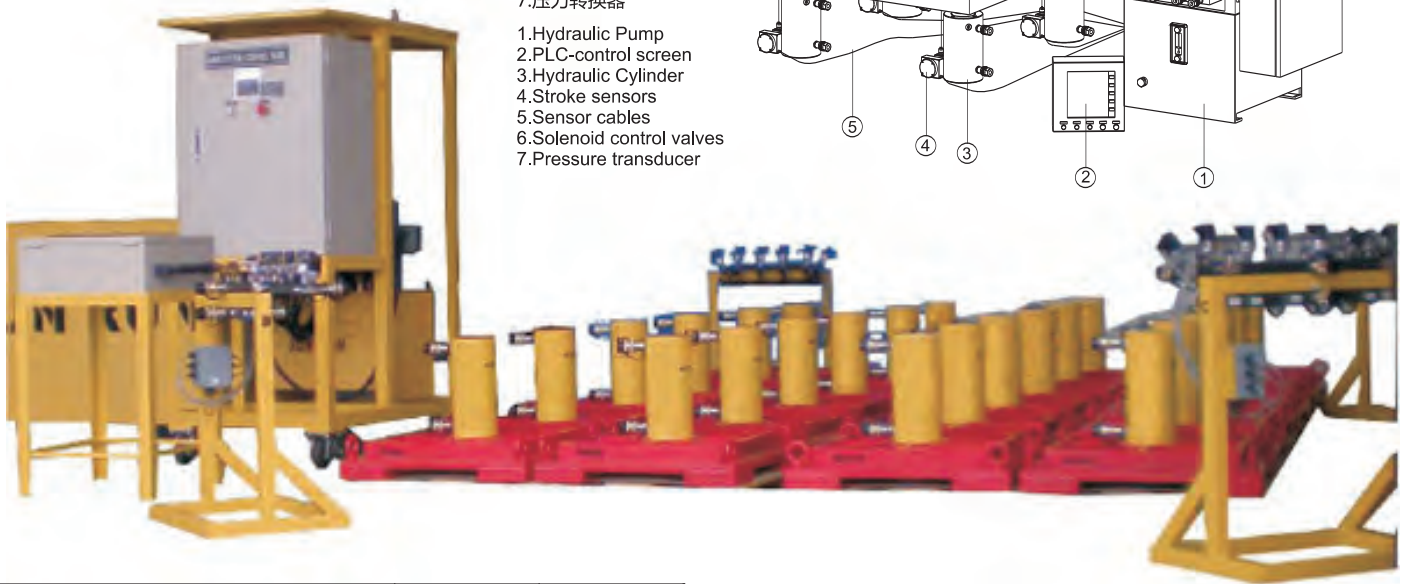
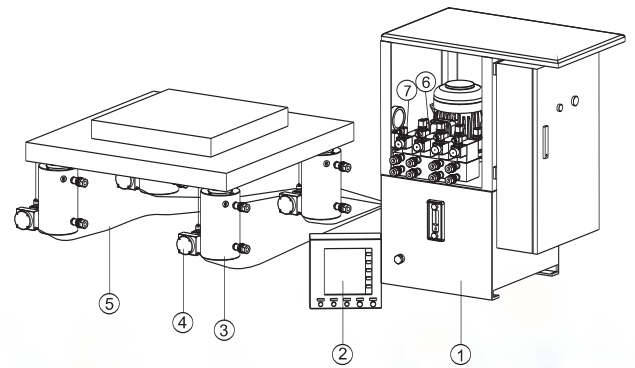
调整荷重及力量  
力量调整精度高达0.1%  
数位扬程感应器：  
超过全扬程精度高达0.1mm  
二点间或举升点间超过最大1km  
双倾斜轴心控制水平结构  
油温冷却系统

#### System Options:

Load and force measurement.  
Load cell for precise force measurement up to 0.1% of full scale.  
Digital stroke sensors for:  
up to 0.1mm accuracy over full stroke.  
up to max. 1km distance between control unit and lifting points.  
Two-axis tilting control to level structures.  
Oil heater or heat exchange for extreme conditions.

1. 液压泵
2. PLC-控制屏幕
3. 油压缸
4. 扬程感应器
5. 感应器电线
6. 电磁阀
7. 压力转换器

1. Hydraulic Pump
2. PLC-control screen
3. Hydraulic Cylinder
4. Stroke sensors
5. Sensor cables
6. Solenoid control valves
7. Pressure transducer



产品装置 Features	Basic 基本	Premium 选配
类比讯号扬程感应器 Analog stroke sensors	×	×
数位讯号扬程感应器 Digital stroke sensors	—	○
扬程控制器 Stroke controlled movement	×	×
荷重控制器 Load controlled movement	—	×
最大准确性 (依据组合件) Max. Accuracy (depends on components)	± 1.0mm	± 0.1mm
能力记录 Recording capabilities	—	×
图表 Graphical representation	—	○
通讯能力 Intercommunication capabilities	—	○
感应线 Sensor cables	×	×

#### 基本 & 选配 系统管理 & 控制规格

X=S标准, O=选配

Basic & Premium System Management & Control Features

X=Standard, O=Optional

警告装置 Alarms	Basic 基本	Premium 选配
扬程极限 Stroke limitation	×	×
荷重极限 Load limitation	—	×
低油位 Low oil level	—	×
滤油器警告 Oil filter warning	—	×
油温警告 Oil temperature warning	—	×

## P 高压手动液压泵(700~1600Bar)

- 配有压力调节阀,可以重新校准输出压力。
- 内置精密高低压自动切换阀,低压时提供更大流量,提高工作效率。
- 铝钛合金材料制造,质量轻、强度高、耐腐蚀、抗冲击,适应各种恶劣环境。

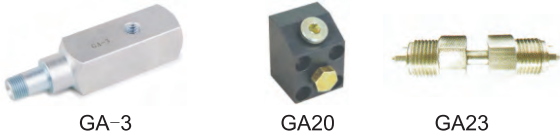
### Hydraulic Hand pump (700~1600Bar)

- ※ Equipped with a pressure regulating valve, to adjust the output pressure.
- ※ The built-in high and low pressure switching valve, low pressure high flow rate output.
- ※ Aluminum titanium alloy, corrosion resistance, high strength, light weight, impact resistance, adapt to a variety of harsh environment.

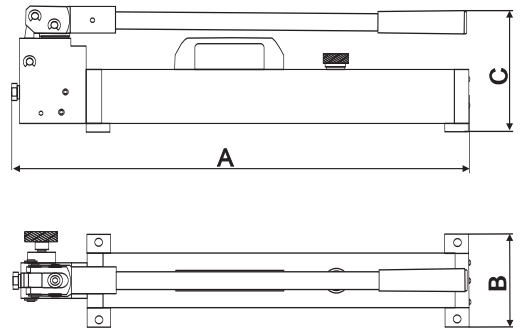


### P系列高压手动泵表座参数

P Series Hand Pump Table Parameters



型号 Type	最大工作压力 Max Pressure (Mpa)	油路接口 Oil interface	压力表接口 Gauge interface
GA-3	70	3/8"NPT	1/4"NPT
GA20	200	1/4" BSP	1/2" BSP
GA23	250	M16×1.5	M16×1.5



P系列是一款专门用于给千斤顶、拉伸器供压的便携式高压手动泵。它的输出压力可以分70Mpa、160Mpa两个大类。另可以订制各种大小的油箱以满足不同的设备需求。

P-series hydraulic hand pumps are designed for Cylinder and hydraulic bolt tensioner. Its pressure is divided into two types (70Mpa & 160Mpa), and customers can order every size of oil tank for different equipment.

### P系列高压手动液压泵选型表

P Series Hand Pump Selection Chart

型号 Type	工作压力 Pressure (Mpa)		每冲程出油量 One Stroke Oil (ml)		油箱容积 Full Tank Oil L	可用油量 Available Oil L	手柄用力 Handle Force N	外型尺寸 SIZE(mm)			输出接口 Oil interface	压力表接口 Gauge interface	重量 Weight Kg
	低压 Low	高压 HI	低压 Low	高压 HI				A	B	C			
P392	2.5	70	32	2.5	1.67	1.44	300	577	120	170	3/8"NPT	1/4"NPT	6.3
P80	2.5	70	32	2.5	2.25	1.98	300	577	120	170	3/8"NPT	1/4"NPT	8
P160	2.5	70	32	2.5	3.58	3.24	300	577	140	190	3/8"NPT	1/4"NPT	10
16P392	1.5	160	32	2.5	1.67	1.44	350	577	120	170	1/4" BSP	1/2" BSP	6.5
16P80	1.5	160	32	2.5	2.25	1.98	350	577	120	170	1/4" BSP	1/2" BSP	8.5
16P160	1.5	160	32	2.5	3.58	3.24	350	577	140	190	1/4" BSP	1/2" BSP	10.5



## 28P 超高压手动液压泵(2800Bar)

- 配有压力调节阀,可以重新校准输出压力,最高输出可达3500bar。
- 内置精密高低压自动切换阀,低压时提供更大流量,提高工作效率。
- 铝钛合金材料制造,质量轻、强度高、耐腐蚀、抗冲击,适应各种恶劣环境。

### High Pressure Hydraulic Hand pump (2800Bar)

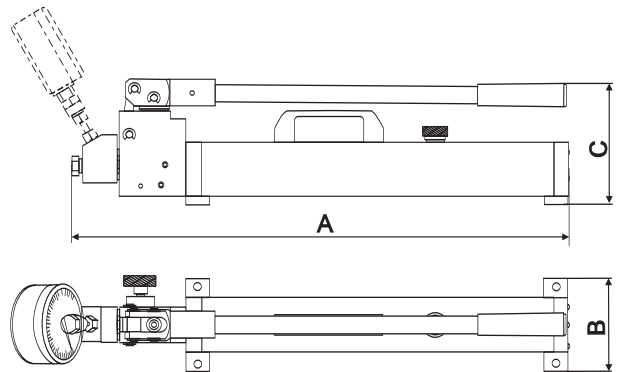
- ※ Equipped with a pressure regulating valve, to adjust the output pressure.(Max Pressure 3500bar)
- ※ The built-in high and low pressure switching valve, low pressure high flow rate output.
- ※ Aluminum titanium alloy, corrosion resistance, high strength, light weight, impact resistance, adapt to a variety of harsh environment.



### 28P系列高压手动液压泵选型表

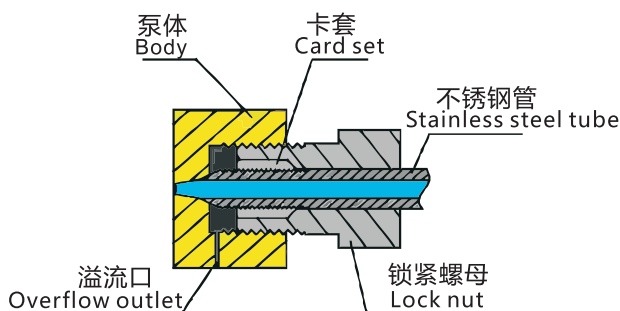
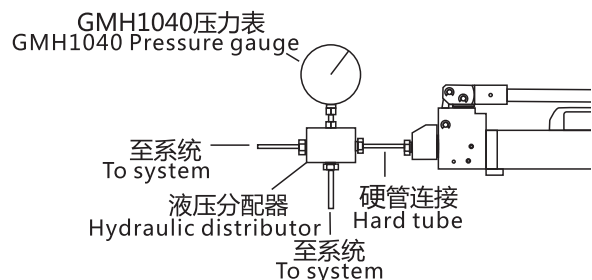
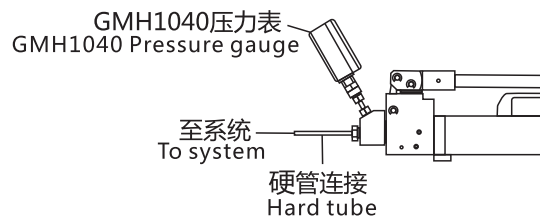
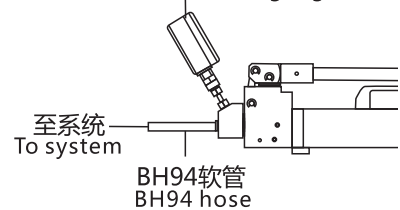
28P Series Hand Pump Selection Chart

型号 Type	28P80	28P160
工作压力 (低压/高压) Pressure (Low/Hi) Mpa	2.0/280	2.0/280
每冲程输出油量(低压/高压) One Stroke Oil (Low/Hi) ml	32/0.9	32/0.9
油箱容积 Full Tank Oil (L)	2.26	3.58
可用油量 Available Oil (L)	1.98	2.24
外型尺寸(A-B-C) SIZE A-B-C (mm)	577/120/170	577/140/190
输出接口 Oil interface	3/4"-16UNF	3/4"-16UNF
压力表接口 Gauge interface	1/2"BSP	1/2"BSP
重量 Weight (Kg)	8.5	10.5



### 泵前配置 Ahead Pump Configure

GMH1040压力表  
GMH1040 Pressure gauge



### 椎管密封

28P超高压手动泵采用不锈钢高压接头密封在椎管接头上,用螺母将套管紧紧地锁定在椎管表面上以提供280Mpa的密封,以达到安全、稳定的要求。

### Spinal seal

Stainless steel high pressure joint seal in the spinal joints, with nut casing and pipe are tightly locked in the spinal canal surface to provide a 2800bar sealed. In order to achieve safety and stability requirements.

## SWR&SWRM Series

Maximum Spread Force:

**14 ton**

Tip Clearance / Max. Spread:<sup>1)</sup>

**6 / 81 mm**

Maximum Operating Pressure:

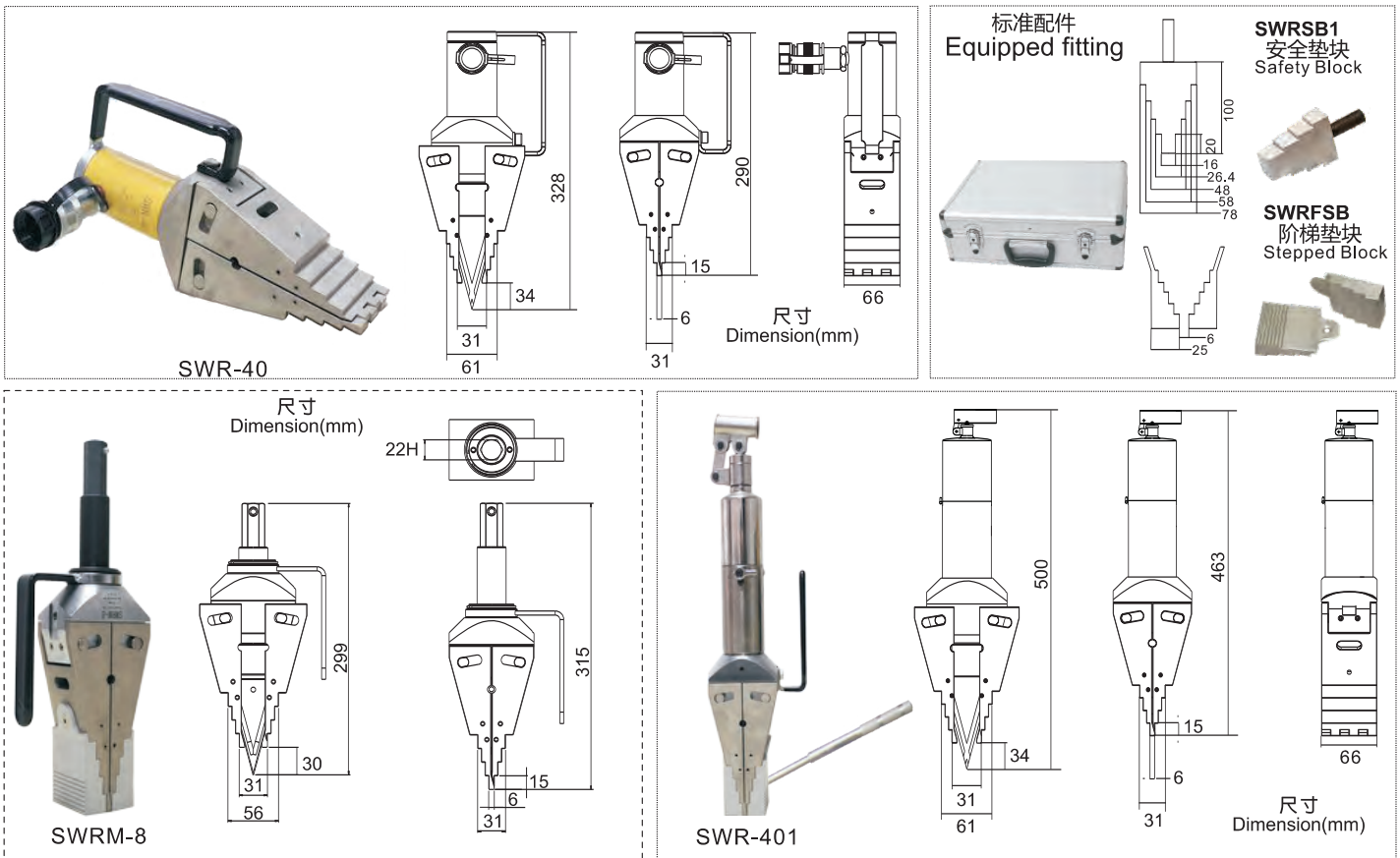
**700 bar**

1)Using Stepped block.

## SWR-40&SWRM-8 法兰分离器 Hydraulic Spreader

- 仅需0.24 (6mm)的间隙。 ※ Only requests an access gap of 0.24"(6mm).
- 自动回缩。 ※ Automatic mechanical retraction.
- 独特连结设计：无首阶弯曲及防滑设计。 ※ Unique interlocking: no first step bending and risk of slipping out of joint.

型号 Model	最大撑开力 Max. spread Force Ton(kN)	尖端空隙 Tip Clearance (mm)	最大撑开 Max. Spread (mm)	总油量 Oil Capacity (c. c)	重量 Weight (kg)
SWR-40	14(125)	6	81	78	7.1
SWR-401	14.5(145)	6	81	452	8.0
SWRM-8	8(72)	6	81	-	6.5



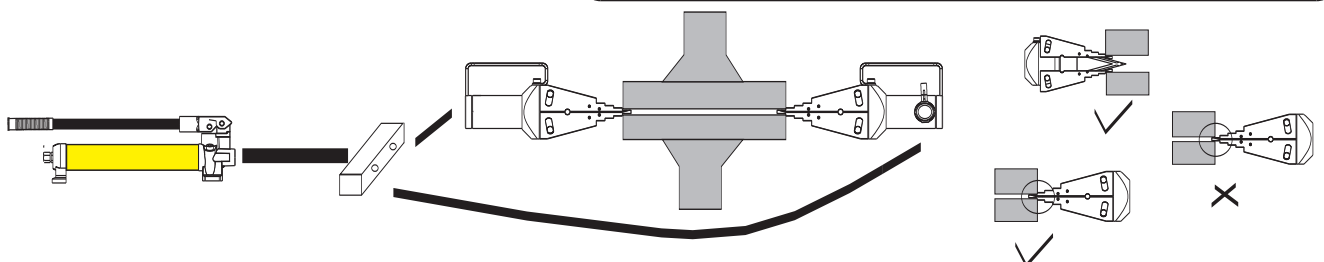
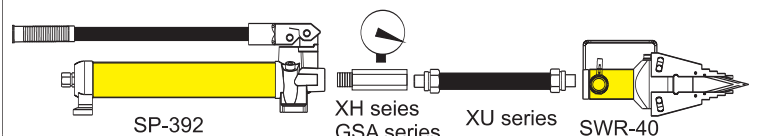
## SWR系列简易安装示意图 Simple Install for SWR series



### 手控分流阀

可同步并使SWR-40呈180°分散于法兰结位置  
For simultaneously and even spreading of flange joints,  
180°apart with SWR-40

### 法兰分离器-建议选配 Flange Spreader Sets-Optional



## HYNCS 液压螺母破切器

- 紧凑宜人的设计，使用方便
- 独特的角度头设计
- 单相作用弹簧回位液压缸
- 可重新研磨重型刀头
- 使用于任何输出压力为700bar的单动式液压泵浦
- 应用于卡车维修、管道工业、石油化工、钢铁建筑、采矿等

### HYNCS Series

Tonnage:  
**5-90 ton**

Bolt range:  
**M6-M48**

Maximum working pressure:  
**700 bar**

### Hydraulic nut breaker

- ※ Compact and pleasant design, easy to use
- ※ Unique angle head design
- ※ Single acting spring return hydraulic cylinder
- ※ Heavy grinding head
- ※ Single acting hydraulic pump for any output pressure of 700bar
- ※ Used in truck maintenance, pipeline industry, petrochemical industry, iron and steel building, mining, etc.



### HYNCS系列液压螺母破切器选型表

HYNCS series hydraulic nut breaker selection table

型号	吨位 (Tons)	六角范围 (mm)	螺母范围 (mm)	需用油量 (cm <sup>3</sup> )	长 (mm)	宽 (mm)	高 (mm)	重量 (Kg)
HYNCS-1319	5	10-19	M6-M12	15	170	40	48	1.2
HYNCS-1924	10	19-24	M12-M16	20	191	54	62	2.0
HYNCS-2432	15	24-32	M16-M22	60	222	64	72	3.0
HYNCS-3241	20	32-41	M22-M27	80	224	75	88	4.4
HYNCS-4150	35	41-50	M27-M33	155	288	94	105	8.2
HYNCS-5060	50	50-60	M33-M39	240	318	106	128	11.8
HYNCS-6075	90	60-75	M39-M48	492	393	156	181	34.1

\* 螺母硬度不可超过HRC-44 精致用于不锈钢罗密及方形螺母。

## MBT 螺栓拉伸器

- 通用ANSI, API法兰均可适用。
- 质轻易携带。
- 可快速取出架桥、六角筒, 便于工作替换。
- 镀镍保护, 延长使用寿命。
- 强化油封设计增强可靠度。
- 维修简易方便。

## Hydraulic Bolt Tensioner

- ※Fit all Standard flanges including ANSI and API Flanges.
- ※Lightweight and easily handled design.
- ※Quick-Release bridge and Hex. Socket design-for fast change over.
- ※Electro-less nickel plating prolongs tool life and reduces on-the-job maintenance.
- ※Improved seal design offer increased reliability.
- ※Simple and easy to maintain.

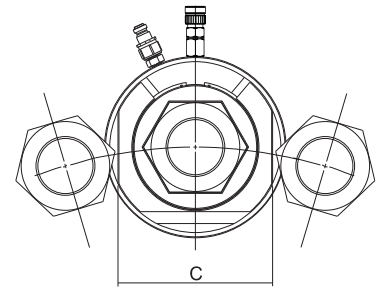
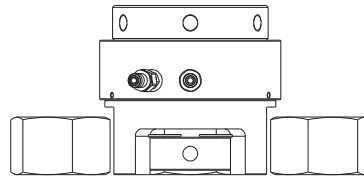
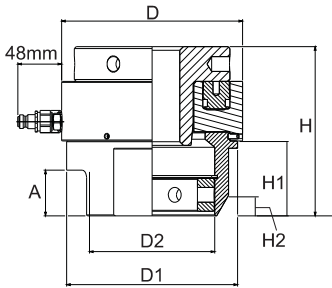
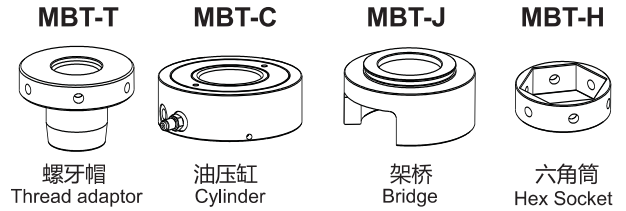
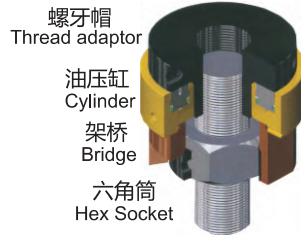
## MBT Series

Capacity:  
**30-465 ton**

Stroke:  
**8-10mm**

Bolt Range:  
**M20-M150**  
**3/4"-5-3/4"**

Maximum Operating Pressure:  
**1500 bar**



型号 Model	MBT-20	MBT-35	MBT-50	MBT-60	MBT-90	MBT-130	MBT-160	MBT-200	MBT-250	MBT-310	
螺栓尺寸 Bolt dimension ( $\phi$ *pitch)	公制 Metric	M20*2.5	M27*3	M36*4	M42*4.5	M45*4.5	M60*5.5	M72*6	M80*6	M100*6	M125*6
		M22*2.5	M30*3.5	M39*4	M45*4.5	M48*5	M64*6	M76*6	M85*6	M110*6	M130*6
		M24*3	M33*3.5	M42*4.5	M48*5	M52*5	M68*6	M80*6	M90*6	M120*6	M140*6
		M27*3	M36*4	M45*4.5	M52*5	M56*5.5	M72*6		M95*6	M125*6	M150*6
螺牙尺寸 Threads ( $\phi$ in- )	英制 imperial	3/4"-10	1"-8	1-3/8"-6	1-1/2"-6	1-3/4"-5	2-1/2"-4	2-3/4"-4	3-1/4"-4	3-3/4"-4	5"-4
		7/8"-9	1-1/8"-7	1-1/2"-6	1-3/4"-5	2"-4-1/2	2-3/4"-4	3"-4	3-1/2"-4	4"-4	5-1/4"-4
		1"-8	1-1/4"-7	1-3/4"-5	2"-4-1/2	2-1/4"-4-1/2			3-3/4"-4	4-1/4"-4	5-1/2"-4
			1-3/8"-6							4-1/2"-4	5-3/4"-4
最大压力 Max. Pressure	(bar)	1500	1500	1500	1500	1500	1500	1500	1500	1500	
	(psi)	21756	21756	21756	21756	21756	21756	21756	21756	21756	
油压面积 Hydraulic area	(cm <sup>2</sup> )	20	35	50	60	90	130	160	200	250	
	(in <sup>2</sup> )	3.1	5.43	7.75	9.3	13.95	20.15	24.8	31	38.75	
最大油压荷重 Max.hydraulic load	(kN)	300	525	750	900	1350	1950	2400	3000	3750	
	(lbf)	67443	118025	168606	202328	303492	438377	539541	674426	843032	
扬程 Piston stroke	(mm)	8	8	8	8	8	8	10	10	10	
D (mm)		86	109	128	144	170	198	220	244	300	
H (mm)		105	116	128	140	154	185	190	203	235	
H1 (mm)		30	40	49	54	65	82	86	106	131	
H2 (mm)		5.2	5.2	10.39	10.39	13.86	22.52	22.52	22.52	22.52	
D1 (mm)		74	97	116	133	154	187	203	232	272	
D2 (mm)		56	73	90	102	114	137	145	180	223	
A (mm)		26	31	38	40	42	50	50	60	73	
C (mm)		66	83	100	118	134	167	175	210	253	
重量 Weight	(kg)	3	4.8	7.5	11	17.3	25	33	39	56	

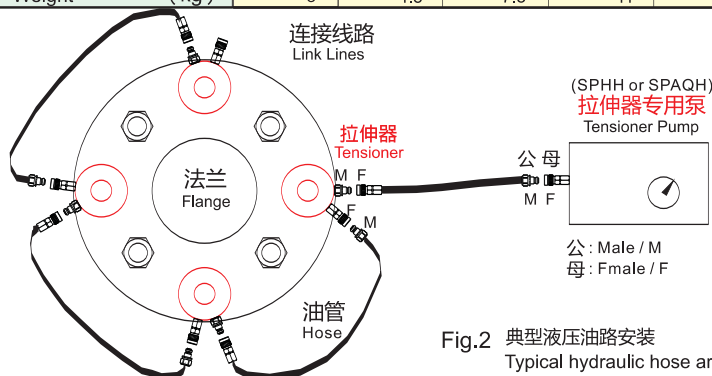
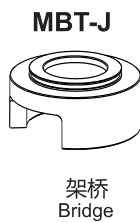
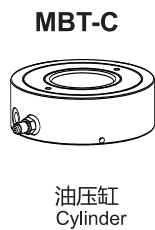
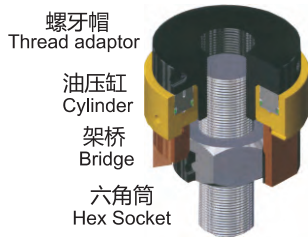


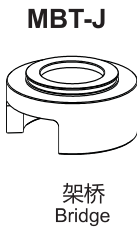
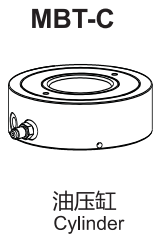
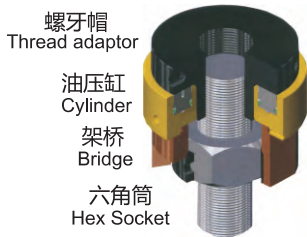
Fig.2 典型液压油路安装  
Typical hydraulic hose arrangement



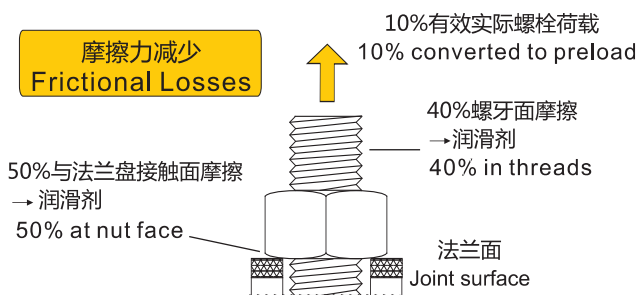
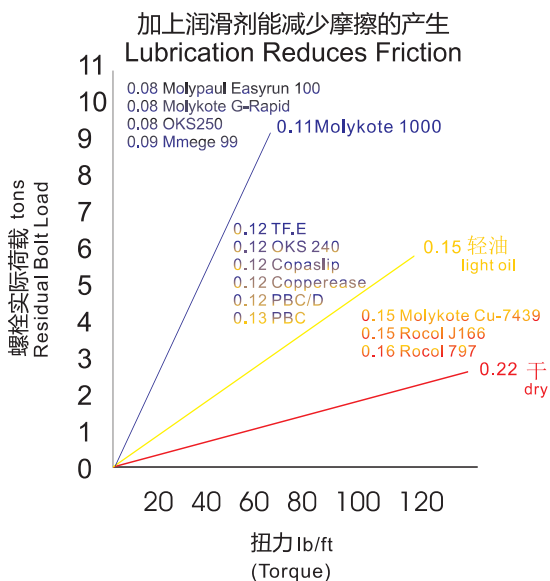




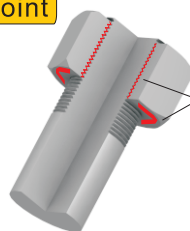
型号 Model Number	螺栓尺寸 Bolt dimension	油压缸型号 Cylinder Model	架桥型号 Bridge Model	螺牙帽型号 Thread adaptor Model	六角筒型号 Hex. Socket Model
MBT-20 M20-2.5	M20*2.5	SBT-20C	SBT-20J	MBT-20T M20-2.5	MBT-20H 30
MBT-20 M22-2.5	M22*2.5			MBT-20T M22-2.5	MBT-20H 32
MBT-20 M24-3	M24*3			MBT-20T M24-3	MBT-20H 36
MBT-20 M27-3	M27*3			MBT-20T M27-3	MBT-20H 41
MBT-20 3/4"-10	3/4"-10			MBT-20T 3/4"-10	MBT-20H 32
MBT-20 7/8"-9	7/8"-9			MBT-20T 7/8"-9	MBT-20H 36
MBT-20 1"-8	1"-8			MBT-20T 1"-8	MBT-20H 41
MBT-35 M27-3	M27*3	SBT-35C	SBT-35J	MBT-35T M27-3	MBT-35H 41
MBT-35 M30-3.5	30*3.5			MBT-35T M30-3.5	MBT-35H 46
MBT-35 M33-3.5	M33*3.5			MBT-35T M33-3.5	MBT-35H 50
MBT-35 M36-4	M36*4			MBT-35T M36-4	MBT-35H 55
MBT-35 1"-8	1"-8			MBT-35T 1"-8	MBT-35H 41
MBT-35 1-1/8"-7	1-1/8"-7			MBT-35T 1-1/8"-7	MBT-35H 46
MBT-35 1-1/4"-7	1-1/4"-7			MBT-35T 1-1/4"-7	MBT-35H 50
MBT-35 1-3/8"-6	1-3/8"-6	MBT-35T 1-3/8"-6	MBT-35H 55		
MBT-50 M36-4	M36*4	SBT-50C	SBT-50J	MBT-50T M36-4	MBT-50H 55
MBT-50 M39-4	M39*4			MBT-50T M39-4	MBT-50H 60
MBT-50 M42-4.5	M42*4.5			MBT-50T M42-4.5	MBT-50H 65
MBT-50 M45-4.5	M45*4.5			MBT-50T M45-4.5	MBT-50H 70
MBT-50 1-3/8"-6	1-3/8"-6			MBT-50T 1-3/8"-6	MBT-50H 55
MBT-50 1-1/2"-6	1-1/2"-6			MBT-50T 1-1/2"-6	MBT-50H 60
MBT-50 1-3/4"-5	1-3/4"-5			MBT-50T 1-3/4"-5	MBT-50H 70
MBT-60 M42-4.5	M42*4.5	SBT-60C	SBT-60J	MBT-60T M42-4.5	MBT-60H 65
MBT-60 M45-4.5	M45*4.5			MBT-60T M45-4.5	MBT-60H 70
MBT-60 M48-5	M48*5			MBT-60T M48-5	MBT-60H 75
MBT-60 M52-5	M52*5			MBT-60T M52-5	MBT-60H 80
MBT-60 1-1/2"-6	1-1/2"-6			MBT-60T 1-1/2"-6	MBT-60H 60
MBT-60 1-3/4"-5	1-3/4"-5			MBT-60T 1-3/4"-5	MBT-60H 70
MBT-60 2"-4.5	2"-4.5			MBT-60T 2"-4.5	MBT-60H 80
MBT-90 M45-4.5	M45*4.5	SBT-90C	SBT-90C	MBT-90T M45-4.5	MBT-90H 70
MBT-90 M48-5	M48*5			MBT-90T M48-5	MBT-90H 75
MBT-90 M52-5	M52*5			MBT-90T M52-5	MBT-90H 80
MBT-90 M56-5.5	M56*5.5			MBT-90T M56-5.5	MBT-90H 85
MBT-90 M60-5.5	M60*5.5			MBT-90T M60-5.5	MBT-90H 90
MBT-90 1-3/4"-5	1-3/4"-5			MBT-90T 1-3/4"-5	MBT-90H 70
MBT-90 2"-4.5	2"-4.5			MBT-90T 2"-4.5	MBT-90H 80
MBT-90 2-1/4"-4.5	2-1/4"-4.5	MBT-90T 2-1/4"-4.5	MBT-90H 90		
MBT-130 M60-5.5	M60*5.5	SBT-130C	SBT-130J	MBT-130T M60-5.5	MBT-130H 90
MBT-130 M64-6	M64*6			MBT-130T M64-6	MBT-130H 95
MBT-130 M68-6	M68*6			MBT-130T M68-6	MBT-130H 100
MBT-130 M72-6	M72*6			MBT-130T M72-6	MBT-130H 105
MBT-130 M76-6	M76*6			MBT-130T M76-6	MBT-130H 110
MBT-130 2-1/2"-4	2-1/2"-4			MBT-130T 2-1/2"-4	MBT-130H 100
MBT-130 2-3/4"-4	2-3/4"-4			MBT-130T 2-3/4"-4	MBT-130H 108
MBT-160 M72-6	M72*6	SBT-160C	SBT-160J	MBT-160T M72-6	MBT-160H 105
MBT-160 M76-6	M76*6			MBT-160T M76-6	MBT-160H 110
MBT-160 M80-6	M80*6			MBT-160T M80-6	MBT-160H 115
MBT-160 2-3/4"-4	2-3/4"-4			MBT-160T 2-3/4"-4	MBT-160H 108
MBT-160 3"-4	3"-4			MBT-160T 3"-4	MBT-160H 118



型号 Model Number	螺栓尺寸 Bolt dimension	油压缸型号 Cylinder Model	架桥型号 Bridge Model	螺牙帽型号 Thread adaptor Model	六角筒型号 Hex. Socket Model
MBT-200 M80-6	M80*6	SBT-200C	SBT-200J	MBT-200T M80-6	MBT-200H 115
MBT-200 M85-6	M85*6			MBT-200T M85-6	MBT-200H 120
MBT-200 M90-6	M90*6			MBT-200T M90-6	MBT-200H 130
MBT-200 M95-6	M95*6			MBT-200T M95-6	MBT-200H 135
MBT-200 M100-6	M100*6			MBT-200T M100-6	MBT-200H 145
MBT-200 3-1/4"-4	3-1/4"-4			MBT-200T 3-1/4"-4	MBT-200H 127
MBT-200 3-1/2"-4	3-1/2"-4			MBT-200T 3-1/2"-4	MBT-200H 137
MBT-200 3-3/4"-4	3-3/4"-4			MBT-200T 3-3/4"-4	MBT-200H 146
MBT-250 M100-6	M100*6	SBT-250C	SBT-250J	MBT-250T M100-6	MBT-250H 145
MBT-250 M110-6	M110*6			MBT-250T M110-6	MBT-250H 155
MBT-250 M120-6	M120*6			MBT-250T M120-6	MBT-250H 170
MBT-250 M125-6	M125*6			MBT-250T M125-6	MBT-250H 180
MBT-250 3-3/4"-4	3-3/4"-4			MBT-250T 3-3/4"-4	MBT-250H 146
MBT-250 4"-4	4"-4			MBT-250T 4"-4	MBT-250H 156
MBT-250 4-1/4"-4	4-1/4"-4			MBT-250T 4-1/4"-4	MBT-250H 165
MBT-250 4-1/2"-4	4-1/2"-4			MBT-250T 4-1/2"-4	MBT-250H 175
MBT-250 4-3/4"-4	4-3/4"-4	MBT-250T 4-3/4"-4	MBT-250H 184		
MBT-310 M125-6	M125*6	SBT-310C	SBT-310J	MBT-310T M125-6	MBT-310H 180
MBT-310 M130-6	M130*6			MBT-310T M130-6	MBT-310H 185
MBT-310 M140-6	M140*6			MBT-310T M140-6	MBT-310H 200
MBT-310 M150-6	M150*6			MBT-310T M150-6	MBT-310H 210
MBT-310 5"-4	5"-4			MBT-310T 5"-4	MBT-310H 194
MBT-310 5-1/4"-4	5-1/4"-4			MBT-310T 5-1/4"-4	MBT-310H 203
MBT-310 5-1/2"-4	5-1/2"-4			MBT-310T 5-1/2"-4	MBT-310H 213
MBT-310 5-3/4"-4	5-3/4"-4			MBT-310T 5-3/4"-4	MBT-310H 222



### 摩擦点 Friction Point



**须加润滑剂  
Lubricated**  
当将扭矩锁紧时，接触的摩擦点（螺牙面和法兰接触的面）都需使用润滑剂。  
Friction points should always be lubricated when using the torque tightening method.

### 加润滑剂的优点

1. 减少摩擦力。
2. 增加螺栓使用寿命。
3. 装置螺栓的成功率提高。
4. 提高扭矩转换率。

### Advantages of Lubrication

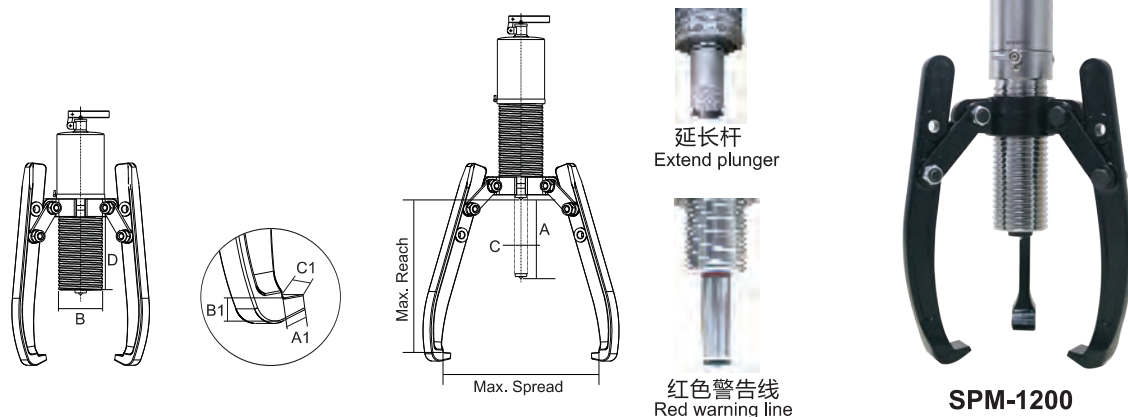
- 1.Reduces the friction during tightening.
- 2.Increases bolt service life.
- 3.Decreases bolt failure during installation.
- 4.Higher friction results in less conversion of torque to preload.

## MPM 一体式液压拉拔器

- 高强度合金钢锻造。
- 四段可折叠及可移除把手，便于操作。
- 360°旋转座。
- 拉拔器本体配有安全阀及红色警告线。
- 液压缸硬铬处理强化线性力。
- 中心螺帽弹簧荷重易于使用。
- 2/3爪顶部套环表面染黑，耐久及防锈。
- 热处理合金钢锻造的连接螺栓及爪表面并染黑处理，以防锈及增加使用寿命。
- 延长杆设计，适用范围广。
- 材质永久保固。
- 爪部荷载额定荷载120%以上。
- 各型号均附防护罩及收纳工具箱。

## Hydraulic Pullers

- ※ Forge high strength alloy steel.
- ※ Four stages of foldable & removable handle saves the handle force during operation.
- ※ 360° Rotary Socket.
- ※ Puller body is with integral safety valve and red warning line.
- ※ Chrome plated cylinder provides linear force.
- ※ Spring loaded live center nut for easy job (removable).
- ※ 2/3 jaws combination puller cross head with manganous-phosphate plated for rust proof and durability.
- ※ Heat treated forged alloy steel cross bolt & jaws with manganous-phosphate plated for rust proof and long life service.
- ※ Extend plunger easy to work.
- ※ Material lifetime warranty.
- ※ 120% capacity for jaws.
- ※ All model equipment with protective net and box.



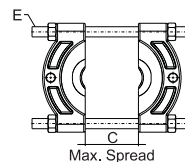
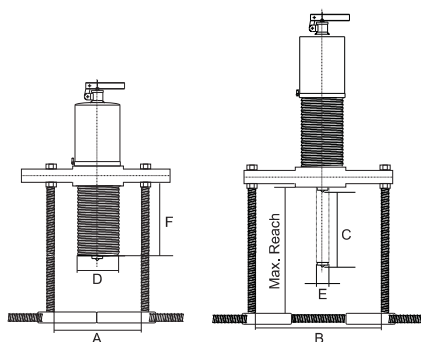
型号 Model No.	能力 Cap. ton (kN)	扬程 Stroke A(mm)	受压面积 Eff. Area (cm <sup>2</sup> )	最大爪深 Max. Reach (mm)	最大抓距 Max. Spread (mm)	顶端 Tip (mm)			爪端 Jaw Tip (mm)			重量 Weight (kg)
						B	C	D	A1	B1	C1	
MPM-600	6 (563)	70	8.04	245	330	45	23	91	13	10	22	6.1
MPM-800	8 (793)	85	11.34	230	350	55	26	112	11	10	25	8.4
MPM-1200	12 (1011)	85	14.45	260	375	60	28	118	14	10	29	10.5
MPM-2000	20 (1978)	111	28.26	350	520	80	40	162	20	27	33	24.5
MPM-3000	30 (2940)	111	42.00	435	550	98	50	155	20	27	38	37.3

## BT 培林拔套

- 高强度合金钢锻造。
- 表面镀铬、热处理，防锈增加使用寿命。

### Universal Bearing Attachments

- ※ Forged of high strength steel alloy.
- ※ Heat treated, Chrome plated for rust proof and durable life.



型号 Model No.	能力 Cap. ton (kN)	扬程 Stroke (mm)	爪深 Max. Reach (mm)	爪距 Spread (mm)		顶端 Tip (mm)			重量 Wt. (kg)
				A	B	D	E	F	
MPM-610	6 (563)	70	270	95	180	45	23	91	7.3
MPM-810	8 (793)	85	270	95	220	55	26	112	12.9
MPM-1210	12 (1011)	85	381	120	290	60	28	118	21.9

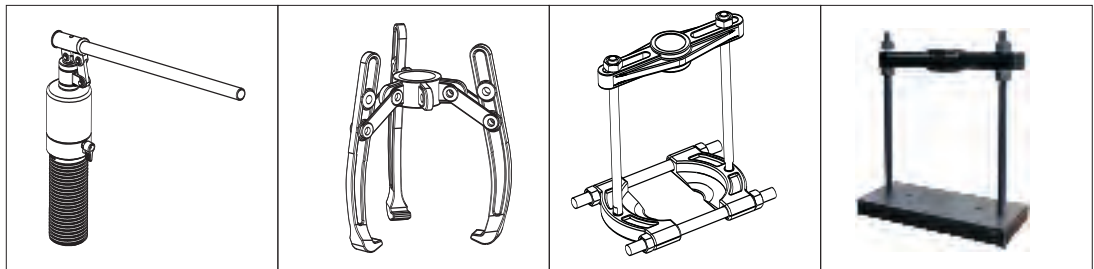
适用的  
培林拔套  
Suitable bear  
attachments

型号 Model No.	撑开 Spread (mm)	螺栓 Bolt (mm)	重量 Wt. (kg)
	C	E	
BT-9000	30-50	3/8"-24T-L120mm	0.6
BT-9005	50-75	1/2"-20T-L135mm	1.5
BT-9015	75-105	5/8"-18T-L165mm	2.5
BT-9025	105-150	3/4"-16T-L275mm	5.2
BT-9035	150-200	1"-12T-L350mm	10.6





## MPM 一体式液压拉拔器-选配 Hydraulic Pullers-Optional



整体型号 Model Number	油缸组 Cylinder Model Number	爪部拉组 Jaws Assembly Model Number	培林支撑组 Bearing Assembly Model Number	压床支撑组 Press Assembly Model Number
MPM-600	MPM-A-600	MPM6-A-A2		
MPM-800	MPM-A-800	MPM8-A-A2		
MPM-1200	MPM-A-1200	MPM12-A-A2		
MPM-2000	MPM-A-2000	MPM20-A-A2		
MPM-3000	MPM-A-3000	MPM30-A-A2		
MPM-610	MPM-A-600		MPM-A-620	
MPM-810	MPM-A-800		MPM-A-820	
MPM-1210	MPM-A-1200		MPM-A-1220	
MPM-620	MPM-A-600	MPM6-A-A2	MPM-A-620	
MPM-820	MPM-A-800	MPM8-A-A2	MPM-A-820	
MPM-1220	MPM-A-1200	MPM12-A-A2	MPM-A-1220	
MPM630	MPM-A-600			MPM-A-630
MPM-830	MPM-A-800			MPM-A-830
MPM-1230	MPM-A-1200			MPM-A-1230

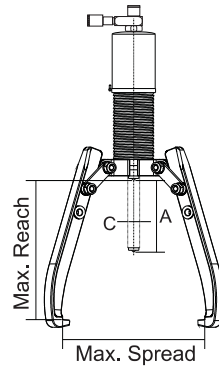
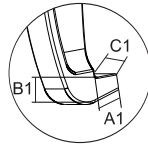
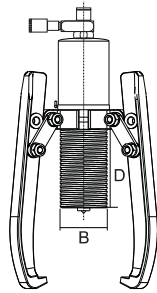


选配防护盖  
Opt protect cover

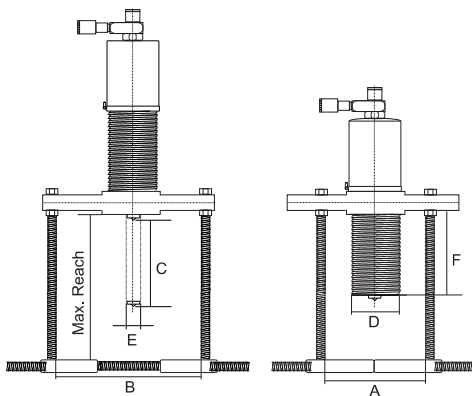
XXMPM-6
XXMPM-8
XXMPM-12

## MPR 分离式液压拉拔器

- 高强度合金钢锻造。
- 独立的液压泵、拉拔器本体配有安全阀及红色警告线。
- 液压缸硬铬处理强化线性力。
- 中心螺帽弹簧荷重易于使用。
- 2/3爪顶部套环表面染黑，耐久及防锈。
- 热处理合金钢锻造的连接螺栓及爪表面并染黑处理，以防锈及增加使用寿命。
- 二段行程设计，第一段借由主体连结具较快速行程；第二段行程由液压输出。
- 延长杆设计，适用范围广。
- 材质永久保固。
- 爪部荷载额定荷载120%以上。
- 各型号均附防护罩及收纳工具箱。

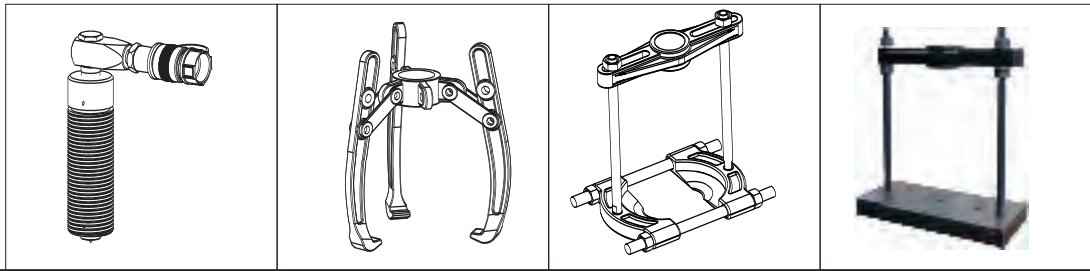


型号 Model No.	能力 Cap. ton (kN)	扬程 Stroke A(mm)	受压面积 Eff. Area (cm <sup>2</sup> )	最大爪深 Max. Reach (mm)	最大爪距 Max. Spread (mm)	顶端 Tip (mm)			爪端 Jaw Tip (mm)			重量 Weight (kg)
						B	C	D	A1	B1	C1	
MPR-600	6 (563)	70	8.04	245	330	45	23	91	13	10	22	5.4
MPR-800	8 (793)	85	11.34	230	350	55	26	112	11	10	25	7.4
MPR-1200	12 (1011)	85	14.45	260	375	60	28	118	14	10	29	9.5
MPR-2000	20 (1978)	111	28.26	350	520	80	40	162	20	27	33	23.0
MPR-3000	30 (2940)	111	42.00	435	550	98	50	155	20	27	38	35.3



型号 Model No.	能力 Cap. ton (kN)	扬程 Stroke (mm)	爪深 Max. Reach (mm)	爪距 Spread (mm)		顶端 Tip (mm)			重量 Wt. (kg)
				A	B	D	E	F	
MPR-610	6 (563)	70	270	95	180	45	23	91	6.3
MPR-810	8 (793)	85	270	95	220	55	26	112	11.9
MPR-1210	12 (1011)	85	381	120	290	60	28	118	20.9

## MPR 分离式液压拉拔器-选配 Hydraulic Pullers-Optional



整体型号 Model Number	油缸组 Cylinder Model Number	爪部拉组 Jaws Assembly Model Number	培林支撑组 Bearing Assembly Model Number	压床支撑组 Press Assembly Model Number
<b>MPR-600</b>	MPR-A-600	MPR6-A-A2		
<b>MPR-800</b>	MPR-A-800	MPR8-A-A2		
<b>MPR-1200</b>	MPR-A-1200	MPR12-A-A2		
<b>MPR-2000</b>	MPR-A-2000	MPR20-A-A2		
<b>MPR-3000</b>	MPR-A-3000	MPR30-A-A2		
<b>MPR-610</b>	MPR-A-600		MPR-A-620	
<b>MPR-810</b>	MPR-A-800		MPR-A-820	
<b>MPR-1210</b>	MPR-A-1200		MPR-A-1220	
<b>MPR-620</b>	MPR-A-600	MPR6-A-A2	MPR-A-620	
<b>MPR-820</b>	MPR-A-800	MPR8-A-A2	MPR-A-820	
<b>MPR-1220</b>	MPR-A-1200	MPR12-A-A2	MPR-A-1220	
<b>MPR-630</b>	MPR-A-600			MPR-A-630
<b>MPR-830</b>	MPR-A-800			MPR-A-830
<b>MPR-1230</b>	MPR-A-1200			MPR-A-1230



选配防护盖  
Opt protect cover

XXMPR-6

XXMPR-8

XXMPR-12

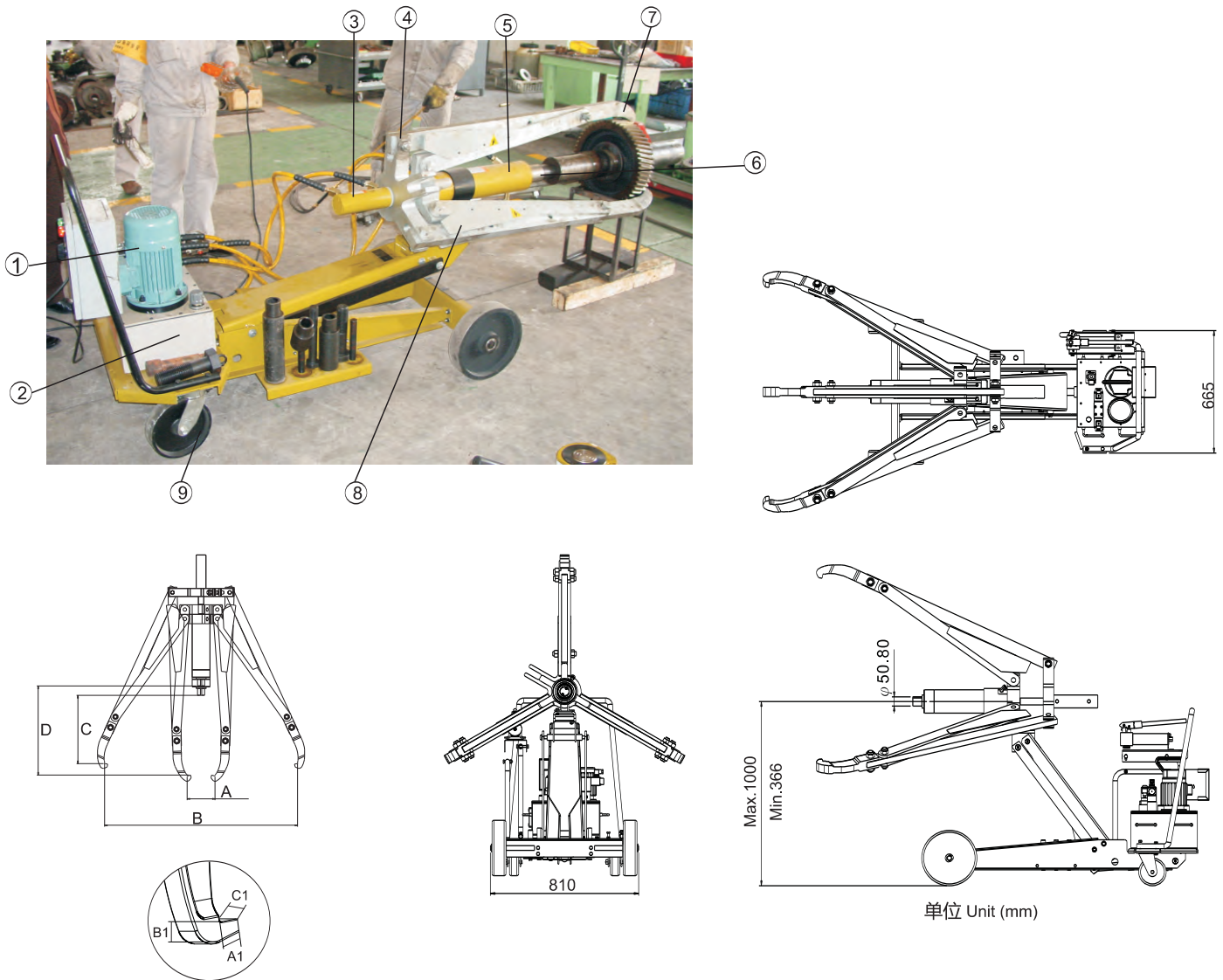


## MPRE-553C 移动式拉拔器

1. 油压举升更易操作，精准定位拉拔器。
2. 油压电动泵遥控操作前进、持压和回缩。
3. 油压拉爪设计，借由油压缸动作提供现场工作安全及稳固的挟持。
4. 提供方便更换二爪或三爪的设计。
5. 可搭配扬程156mm或334mm的油压缸。
6. 油缸自动中心校正，拉爪自动平衡挟持。
7. 强力拉力及强挟持力拉爪，不需额外链条或覆盖来避免拉爪滑出或弹出。
8. 拉爪具遮护功能，能保护操作者。
9. 6" 万向车轮更便于移动。

## Mobile Hydraulic Pullers

1. Hydraulic lift system for easy, precise position of puller.
2. Hydraulic electric remote control advance, hold and retract.
3. Hydraulically-actuated jaws. Cylinder moves in or out to provide a safe, secure grip on workpiece.
4. Puller can be assembled in 2 or 3 jaws configurations.
5. Choice of cylinder with a 156(mm) or 334(mm) stroke.
6. Self centering: Center cylinder on work; puller jaws will automatically grip work.
7. Powerful pull and the tighter the puller jaws grip. No chains or cages required to keep puller jaws from slipping or springing off the part being pulled.
8. Guards at pinch points protect operator.
9. 6" swivel casters give ease of mobility.



型号 Model Number	能力 Cyl. Capacity (kN)	扬程 Cyl. Stroke (mm)	爪开距离 Spread		爪深 Reach to spread		爪前钩 Jaw Tip			重量 Wt. (kg)
			A	B	C	D	L	W	H	
			(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	
MPRE-553C	498	334	200	1380	488	637	23.65	35.7	50	380

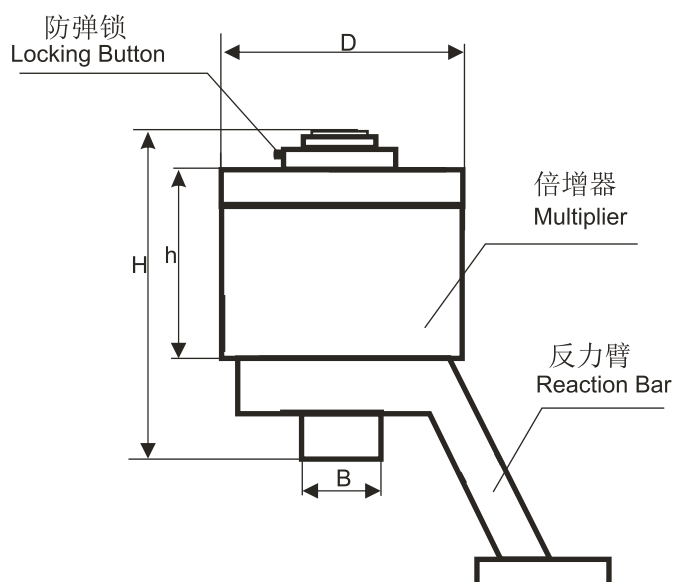
# TM 扭矩倍增器

TM系列扭矩倍增器是一种将力矩放大的装置，其传动机构使得机械扳手施加较小的扭矩便可以得到4-70倍的扭矩输出。适用于其他扭矩扳手难以使用的场合，空间。其操作简单，节省人力。

TM series torque multiplier is a device for amplifying torque, The transmission mechanism makes the mechanical wrench can produce a torque output of 4-70 times with smaller torque. Suitable for other torque wrench difficult to use, space. The utility model has the advantages of simple operation and labor saving.



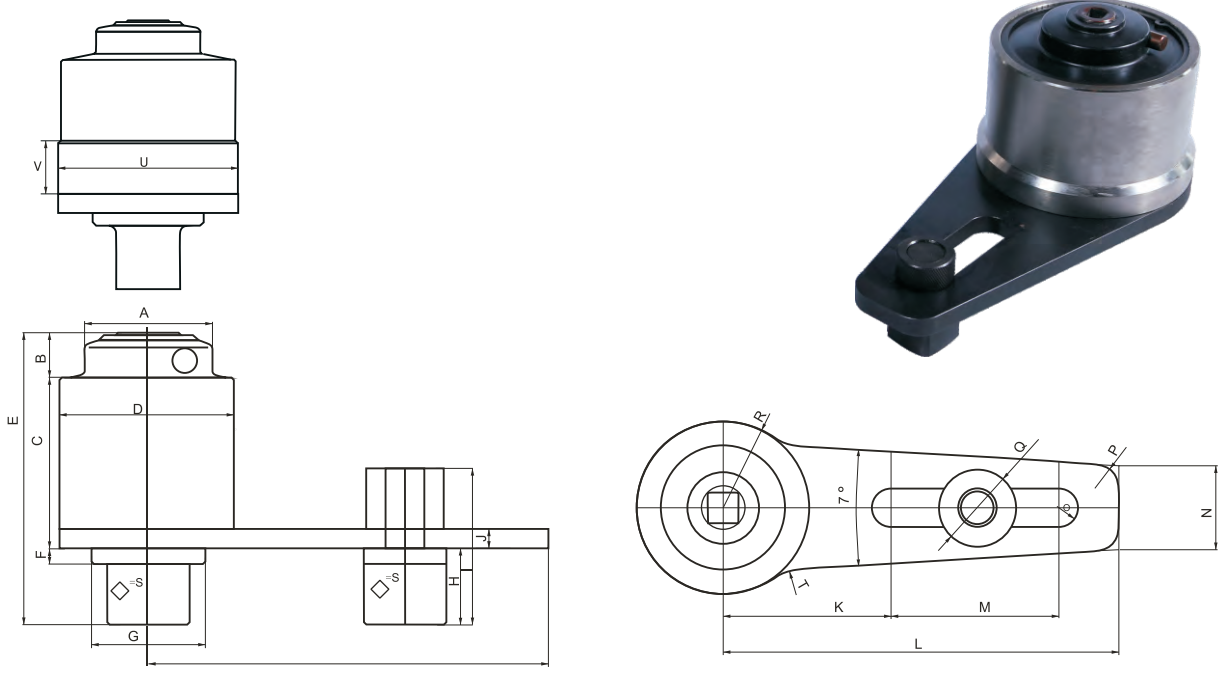
TM-W系列扭矩倍增器结构示意图  
Schematic diagram of TM-W series torque multiplier



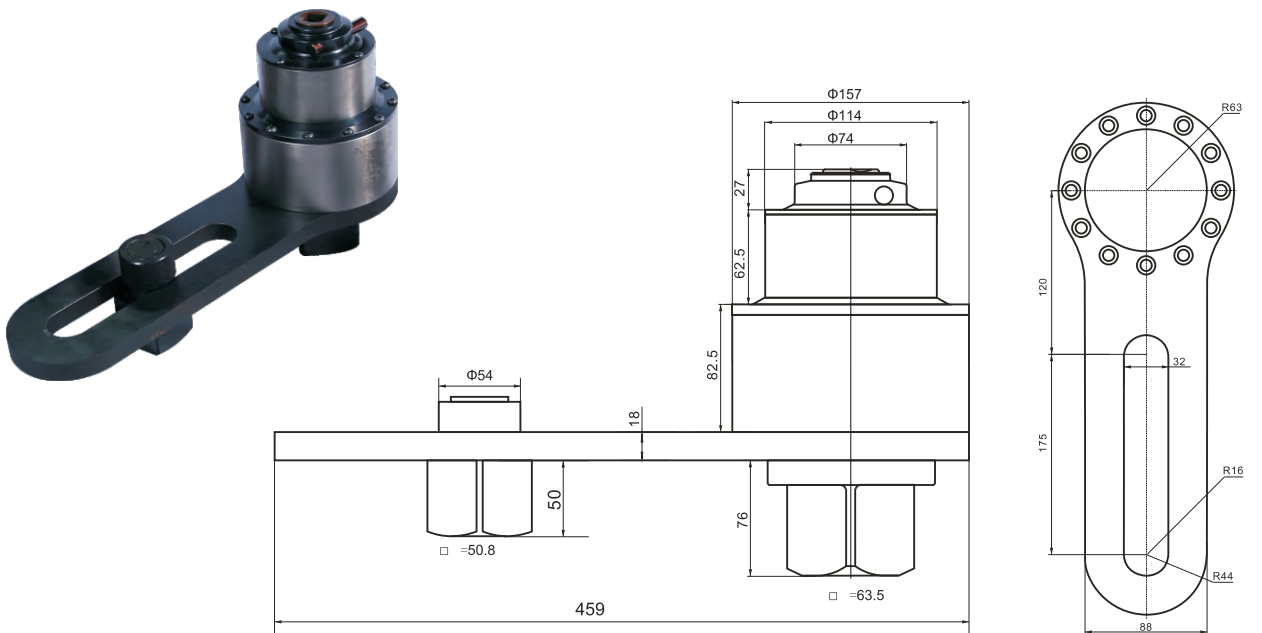
TM-W系列扭矩倍增器选型表  
TM-W series torque multiplier selection table

Model 型号	TM-10W	TM-20W	TM-35W	TM-55W	TM-75W	TM-100F	TM-150F	TM-200F
D (mm)	80.5	80.5	96.5	117	121	—	—	—
H (mm)	88	105	163	187	195	—	—	—
h (mm)	49	76	94	107	107	—	—	—
Input Square Drive 输入方驱	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	3/4"	3/4"
Output Square Drive (B) 输出方驱	1"	1"	1"	1-1/2"	1-1/2"	1-1/2"	2-1/2"	2-1/2"
Torque Ratio 扭矩比	1: 4	1:13.7	1:17	1:21	1:24.3	1:29	1:61.2	1:67
Approx. Weight (kg) 重量	2.3	3.3	5.9	9.7	13	16	30	30
Max. Torque Output (N.m) 最大扭矩输出	1000	2000	3500	5500	7500	10000	15000	20000

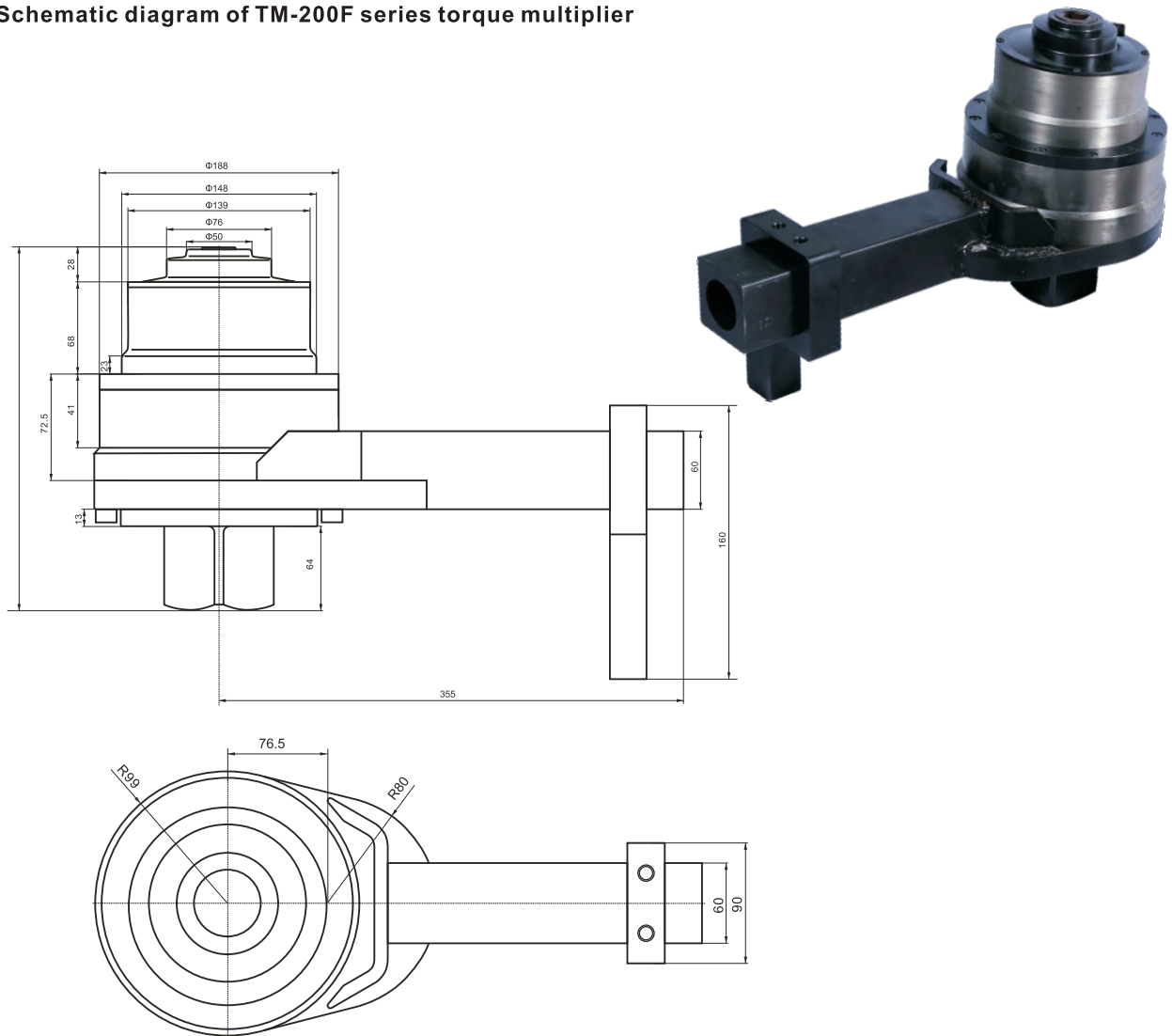
TM-F系列扭矩倍增器结构示意图  
Schematic diagram of TM-F series torque multiplier



TM-150F系列扭矩倍增器结构示意图  
Schematic diagram of TM-150F series torque multiplier



TM-200F系列扭矩倍增器结构示意图  
Schematic diagram of TM-200F series torque multiplier



TM-F系列扭矩倍增器选型表  
TM-Fseries torque multiplier selection table


型号	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V
TM-20F	52	18	71	72	121	6.5	47	32	65	9	70	168	70	35	8	10	32	36.5	1"	25	-	-
TM-35F	52	16.5	73	87	134	2.5	56	29.5	66.5	12	80	180	80	45	9	12	34	43.7	1"	25	-	-
TM-55F	62	22	80	104	160	7.5	66	45	78	11.5	95	210	90	55	11	15	38	53.5	1.5"	25	107	31
TM-75F	62	22	90	114	172	5.5	72	45	84	14	110	240	100	64	13.5	18	38	61	1.5"	30	122	37
TM-100F	70	24	102.5	142	195.5	17	102	45	87	16	130	275	110	76	15	20	43	71	1.5"	30	-	-

**快速接头**  
Quick coupler



**C901/902 700bar系列**  
C901/902 700bar series



技术参数 Technical Parameter
材质：硬化钢镀锌 Material: galvanized steel
最大工作压力：700bar Maximum working pressure: 700bar
最小爆破压力：2800bar Minimum burst pressure: 2800bar
有效通径：2.5mm Effective path: 2.5mm
温度：-30°C至+100°C Temperature: -30 degrees Celsius to +100
在压力降为4bar下的流量为：5.3L/min In the pressure drop of 4bar flow rate is: 5.3L/min

母接头 Female Connector	型号 Type		连接尺寸 Connection Size	推荐扭矩(Nm) Recommended Torque (Nm)
 内螺纹	C901	9011	NPT1/4"	50-60
	C902	9021	NPT3/8"	70-80
公接头 Male Connector	型号 Type		连接尺寸 Connection Size	推荐扭矩(Nm) Recommended Torque (Nm)
 外螺纹	C901	9012	NPT1/4"	50-60
	C902	9022	NPT3/8"	70-80

**C115.100Mpa系列**  
C115.100Mpa series



技术参数 Technical Parameter
材质：硬化钢镀锌 Material: galvanized steel
最大工作压力：1000bar Maximum working pressure: 1000bar
最小爆破压力：2600bar Minimum burst pressure: 2600bar
有效通径：2.5mm Effective path: 2.5mm
温度：-30°C至+100°C Temperature: -30 degrees Celsius to +100
在压力降为4bar下的流量为：6.0L/min In the pressure drop of 4bar flow rate is: 6.0L/min

公接头 Female Connector	型号 Type	连接尺寸 Connection Size	推荐扭矩(Nm) Recommended Torque (Nm)
 内螺纹	C115 6102	RC 1/4"	30-40
	C115 6104	RC 3/8"	40-50
	C115 6202	G 1/4"	40-50
	C115 6204	G 3/8"	70-80
母接头 Male Connector	型号 Type	连接尺寸 Connection Size	推荐扭矩(Nm) Recommended Torque (Nm)
 内螺纹	C115 1102	RC 1/4"	50-60
	C115 1104	RC 3/8"	70-80
	C115 1201	G 1/8"	40-50
	C115 1202	G 1/4"	40-50
	C115 1204	G 3/8"	70-80





## 压力表

Pressure gauge

参数  
Parameter

型号 Model	GG1010
表盘尺寸 Dial size	100mm
表接口 Table interface	1/2" BSP
量程(MPa) Range (Mpa)	0-100

·标准双刻度显示psi和MPa

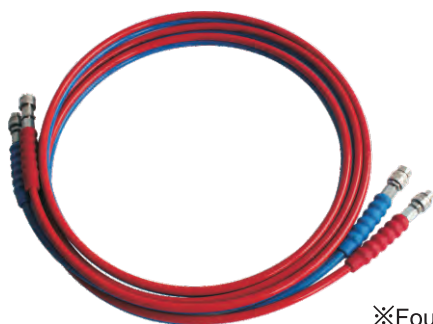
·所有的压力传感部件都用硅油密封和防潮，保证经久耐用

·包含安全密封圈和等压膜

※Standard calibration with dual scale reading for psi and Mpa.

※All pressure sensing components are sealed with glycerin and dampened proof to guarantee durability.

※Includes a safety seal ring and pressure equalling membrane.



## 液压油管

Hydraulic hose

·四层设计，其中两层为高强度钢丝编织层、塑料包层的尼软管。

·双联液压软管，液压扭矩扳手专用液压软管，改变了原单独两根软管配置，结构紧凑，不会缠绕，工作方便

·用于要求严格的场合，四倍安全系数。

·重量轻，体积小，可弯曲半径小。

·压力下体积膨胀小。

※Four layers nylon design, two layers of high strength steel wire braids and plastic coating.

※Twins hoses supplied for Hydraulic Torque Wrench.

※Used in occasion, 4:1 design factor.

※Light weight, small size and high bending radius.

※Exhibits low volumetric expansion under pressure.

名称与图型 Model & photograph	最高压力 Max operating pressure (MPa)	软管接头 hose end		型号举例 Type	长度(M) hose length
		端头1 end one	端头2 end two		
2JH64系列双联液压软管 2JH64 series twin hydraulic hose	72	1/4"NPT	1/4"NPT	2JH6445-1	4.5
				2JH6460-1	6
				2JH6490-1	9
				2JH64100-1	10
JH74系列液压软管 JH74 series hydraulic hose	72	1/4"NPT	1/4"NPT	JH7445	4.5
				JH7460	6
				JH7490	9
				JH74100	10
JH78系列液压软管 JH78 series hydraulic hose	100	3/8"NPT	3/8"NPT	JH7818	1.8
				JH7845	4.5
				JH7890	9
				JH78120	12
BH84系列超高压液压软管 Bh84 series superhigh pressure hydraulic hose	180	1/4"BSP	1/4"BSP	BH8420	2
				BH8460	6
				BH8490	9
				BH84120	12
BH94系列超高压液压软管 BH94 series superhigh pressure hydraulic hose	280	1/4"BSP	1/4"BSP	Bh9430	3
				BH9460	6
				BH9490	9

## 附件1 :

## Annex 1:

常用超高压系统元件选型表 Selection of components for common high voltage system

阀类型与型号 Photograph and Model	描述 Description	应用 Application	液压符号 Hydraulic Symbol
 电磁控制模块阀 VGS2 Solenoid (operated) valve VGS2	无与伦比的组合性, 用一定数量的相同或不同机能的阀块组合, 实现各种控制方法。多液压缸或多功能独立控制理想的选择。该阀只要装上底板, 即可成为管接式阀, 而且还可在底板上选装其它机能的阀(如: 限压阀或旁通单向阀, 来进一步扩大其应用范围)。 These valve maybe directly installed in pipe systems, when equipped with sub plates enabling pipe connection. Many optional functions can be incorporated in these sub-plates.	单作用液压泵 Single-acting hydraulic pump	
 电磁控制模块阀 VGZ3 Solenoid (operated) valve VGZ3		双作用液压泵 double-acting hydraulic pump	
 电磁控制模块阀 VGZ4 Solenoid (operated) valve VGZ4		双作用液压泵 double-acting hydraulic pump	
 截止式换向阀 VH1 Directional control valve VH1	一种无泄漏的钢球截止阀。手柄操纵的偏心轴控制着移动钢球位置的推杆, 用以控制双作用油路的进程/锁定/回程操作。 The directional-seated valves types operate leakage free. They are operated via a hand lever on an eccentric shaft transferring the switching moment to an actuation pin acting on the valve elements (balls), for oil outlet, shut-off, retraction.	双作用液压泵 double-acting hydraulic pump	
 模块式截止阀 IV4 Shut-off valve IV4	主要装在泵上与基板模块一起组成系统。为单作用液压缸一起提供锁定 / 回程操作。 Operated in the pump with model to use for shut-off, reaction.	单作用液压泵 双作用液压泵 Single-acting hydraulic pump & double-acting hydraulic pump	
 节流阀 V-82 Needle valve V-82	控制液压缸速度, 也作为截止阀用以暂时锁定负载。可用与多只液压缸同时工作的液压调整。 3/8"NPT母接口。 The control cylinder speed, can also be used as shut-off valve for temporary load holding. 3/8NPT female ports.	单作用液压泵 双作用液压泵 Single-acting hydraulic pump & double-acting hydraulic pump	
 手动操作单向阀 V-66 Manually operated check valve V-66	用来与单或双作用液压缸一起锁定负载, 液压缸回程时手动将阀打开, 让油流回油槽。 Used for load holding applications with single and double acting cylinders. Valve is manually opened to allow oil to flow back to tank when cylinder retracts.	单作用液压泵 双作用液压泵 Single-acting hydraulic pump & double-acting hydraulic pump	
 液控单向阀 V-42 Pilot operated check valve V-42	可以安装在液压缸上。主要与大吨位双作用液压缸一起使用, 液压缸上的液压控制口从液压缸回路上接受压力, 用以在系统失压的情况下锁定负载。 To hold the load in case of system pressure loss.	双作用液压泵 double-acting hydraulic pump	
 安全阀 BF2 Safe valve BF2	用于油缸或管路中起限压作用。 For the limitation of working pressure.	单作用液压泵 双作用液压泵 Single-acting hydraulic pump & double-acting hydraulic pump	

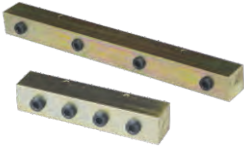
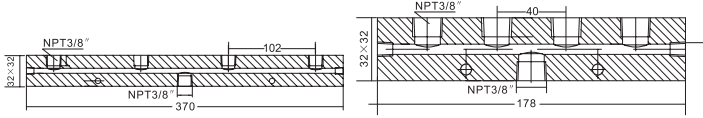

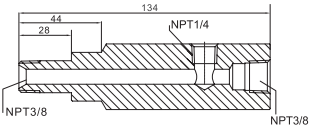

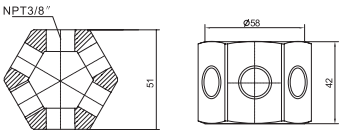

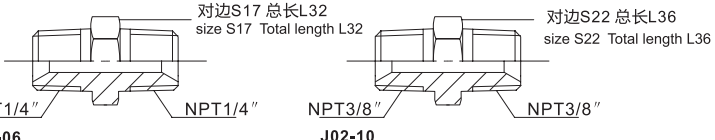

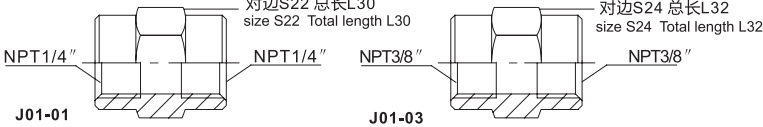

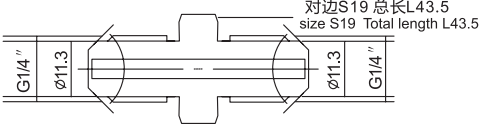

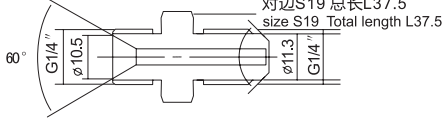
所有阀的额定工作压力为700bar, 管装式阀采用NPT接口, 防止在额定压力下泄漏。

The rated working pressure of all valves is 700bar, and the pipe type valve adopts NPT interface to prevent leakage under rated pressure.


附件2 :

Annex 2:

常用管路连接附件选型表 Common pipe connection attachment selection table

名称 Name	型号 Model	外型图 Outline drawing
	液压分配器 Hydraulic distributor A-64 A-65	 <p>A-64可装载流阀 A-64 Adjustable throttle valve</p> <p>A-65不可装载流阀 A-65 No throttle valve</p>
	表座 Table GA-3	
	六角 液压分配器 Six angle hydraulic distributor A-66	
	过渡接头 Transition joint J02-06 J02-10	 <p>对边S17 总长L32 size S17 Total length L32</p> <p>对边S22 总长L36 size S22 Total length L36</p>
	过渡接头 Transition joint J01-01 J01-03	 <p>对边S22 总长L30 size S22 Total length L30</p> <p>对边S24 总长L32 size S24 Total length L32</p>
	过渡接头 Transition joint J02-23	 <p>对边S19 总长L43.5 size S19 Total length L43.5</p>
	过渡接头 Transition joint J02-24	 <p>对边S19 总长L37.5 size S19 Total length L37.5</p>

Hangzhou Durable-Precision Mechanism Company Limited is a professional engaged in hydraulic torque wrench, hydraulic torque wrench special pump, hydraulic tensile, torque multipliers and other hydraulic tools R & D, production and leasing of manufacturers, mounting and dismantling focus on large bolts and nuts. Our company is the one than specialize in researching and developing hydraulic capacity, advanced equipment, experienced staff and excellent techniques, We are capable of providing a complete range of products with high quality and competitive price. In addition, all of our products are up to the international standard(ISO 9001). We have received a good reputation both at home and abroad. Our products have been well sold to more than 30countries, such as Japan, America, Australia, Italy, and the middle east. If you are interested in any of our products, please feel free to contact us. We are sincerely looking forward to cooperating with all customers to create an even brighter future.



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