



- 获中国船级社产品检验合格
- 获中国船级社ISO9001质量体系认证
- 由中国江苏船舶检验局检验合格

兴化市通舟船舶设备有限公司

Xinghua Tong Zhou Ship Equipment Co., Ltd



兴化市通舟船舶设备有限公司

江苏兴化市通舟船舶设备有限公司

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江苏·船用产品系列·兴化



企业精神

Spirit of enterprise

求实 创新
团结 高效

For practicality
Solidarity Innovation
Efficient

企业简介

Company profile



兴化市通舟船舶设备有限公司是一家正在崛起的民营企业，占地一万多平米，经过多年的拼搏进取，掌握时代脉搏与相关科研所深度合作、联合开发，产品远销国内外。自2003年以来，从事液压、电动、柴油Φ12.5~Φ100起锚机，20kN~1200kN绞车，10kN~200kN绞盘，25kN.m~600kN.m拨叉舵机，8kN.m~250kN.m摆缸舵机，100tm起重机的设计、开发、制造、产品检测及售后服务。于2006年获江苏省船舶检验局（ZC），2008年获中国船级社（CCS），2012年获法国船级社（BV），2013年获中华人民共和国渔业船舶检验局（ZY），2015年获得韩国船级社（KR），2016年获得印度尼西亚船级社（BK1）等多国船级社对产品技术文件、图纸的审核批准或型式认可。产品出口到法国、伊朗、阿根廷、印度、印尼等多个国家。

兴化市通舟船舶设备有限公司于2006年获得中国船级社ISO9001-2000质量管理体系认证，2015年通过中国船级社ISO9001-2008版复检再认证，2017年底通过中国船级社ISO9001-2015新版认证。

本公司有多年从事甲板机械设计、开发的助理工程师、检验人员，中国船级社证书焊工、法国船级社证书焊工、压力容器焊接证书焊工及一般证书焊工、车工、电工、钳工。

现有主要生产设备：数控等离子切割下料机、数控线切割机、滚齿机、龙门铣刨床、镗床、大型车床、电动坡口机、气动倒角机、数控弯管机、各种焊机、时效震动器、喷砂机等。主要检测设备：各种测量仪表、尺、粗糙度对比块、硬度计、拉伸冲击试验机、超声波探伤仪、涂层测厚仪、200t锚机试验台、120tm起重机试验台、8~40kN.m和30~600kN.m舵机试验台各一座。现已具备制造各种船用设备的能力。

本公司是一家发展中企业，以“质量至上，诚信为本”为宗旨，全力开发研制新产品，精益求精求生存，与广大客户携手共创辉煌。

Xinghua Tongzhou Ship Equipment Co., Ltd. is a rising private enterprise. It covers an area of more than 10000 square meters. After years of fighting and enterprising, we have grasps the deep cooperation and joint development of the time pulse and relevant scientific research institute, and the products are sold at home and abroad. Since 2003, it has been engaged in hydraulic, electric and diesel motor 12.5 ~ 100 anchor machines, 20kN ~ 1200kN winch, 10kN to 200kN winch, 25kN.m to 600kN.m fork steering machine, 8kN.m to 250kN.m swinging steering machine, design, development, manufacture, product inspection and after-sales service of 100tm crane. In 2006, he won the Jiangsu province Ship Inspection Bureau (ZC), in 2008 won the China Classification Society (CCS), in 2012 won the French Classification Society (BV), in 2013 won the People's Republic of China fisheries and Ship Inspection Bureau (ZY), 2015 won the Korean Classification Society (KR), and in 2016, the Indonesia ship class society (BK1), and other multinational classification societies to product technology Approval or type approval of documents and drawings. Products are exported to France, Iran, Argentina, India, Indonesia and many other countries.

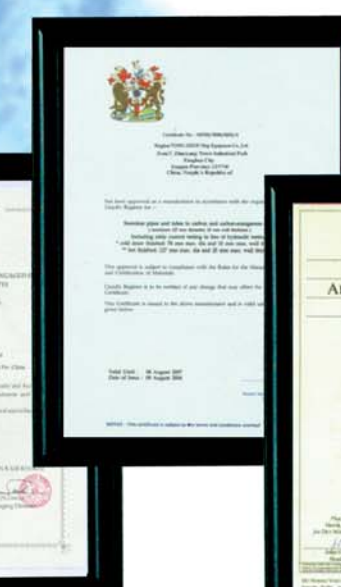
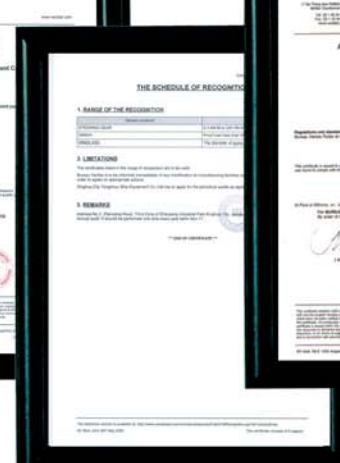
Xinghua Tongzhou Ship Equipment Co., Ltd. was certified by the ISO9001-2000 quality management system of China Classification Society in 2006, rechecked by ISO9001-2008 version of China Classification Society in 2015, and approved by the new version of ISO9001-2015 of China Classification Society at the end of 2017. The company has many years engaged in the design and development of deck machinery, assistant engineers, inspectors, China Classification Society Certificate welder, French Classification Society Certificate welder, pressure vessel welding certificate welder and general certificate welder, car worker, electrician, fitter. The main production equipment: numerical control plasma cutting machine, CNC wire cutting machine, gear hobbing machine, Longmen milling machine, boring machine, large lathe, electric bevel machine, pneumatic chamfering machine, CNC pipe bending machine, various welding machines, aging vibrators, sandblasting machines and so on. The main testing equipment: various measuring instruments, scale, roughness contrast block, hardness tester, tensile impact tester, ultrasonic flaw detector, coating thickness gauge, 200t anchor machine test stand, 120tm crane test rig, 8 to 40kN.m and 30 to 600kN.m rudder test rig. The ability to manufacture all kinds of marine equipment is now available.

Our company is a developing enterprise, with the aim of "quality first, honesty and faith", we can develop and develop new products, strive for survival and create brilliance hand in hand with our customers.



企业荣誉

企业荣誉



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龙源振华2000T自升式风电安装平台
Longyuan Zhenhua 2000T self lift wind power installation platform
龙源振华三号800kN定位锚机调试现场
Longyuan Zhenhua No. three 800kN positioning anchor machine
installation and commissioning site



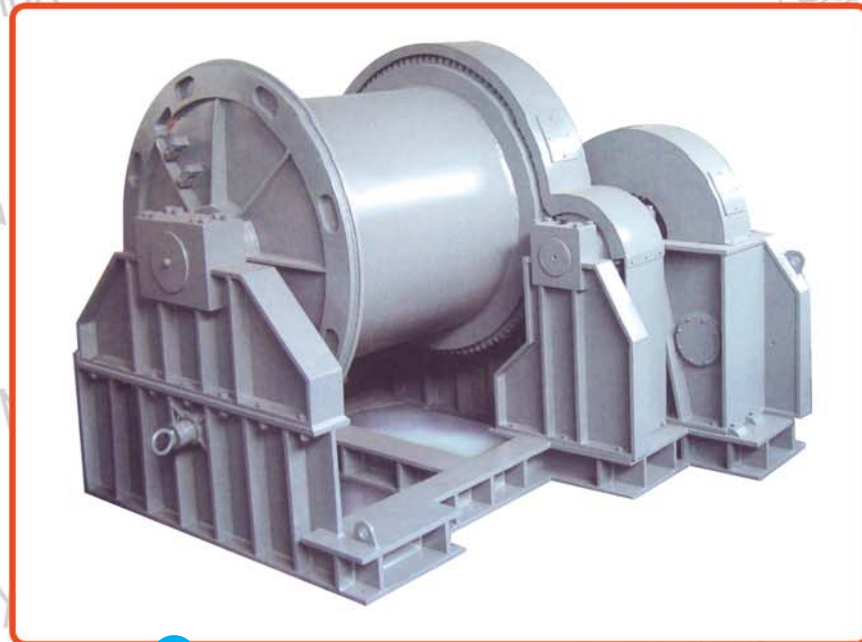


海工平台航行锚机
Sea platform navigation anchor



工程绞车
Engineering winch

布缆绞车
Engineering cable winch





拖曳绞车
Towing winch



工程绞车
Engineering winch

工程绞车
Engineering winch





电动单链轮起锚机
Electric single gypsy wheel windlass



液压三链轮起锚机
Hydraulic triple gypsy wheel windlass



电动双链轮起锚机
Electric double gypsy wheel windlass

液压单链轮起锚机
Hydraulic single gypsy wheel windlass



液压双链轮起锚机
Hydraulic double gypsy wheel windlass



柴动单链轮起锚机
Diesel engine single gypsy windlass





液压双链轮双卷筒组合锚机
Hydraulic double gypsy wheel
double drum combined windlass



电动双链轮双卷筒组合锚机
Electric double gypsy wheel
double drum combined windlass

液压双链轮单卷筒组合锚机
Hydraulic double gypsy wheel
single drum combined windlass



电动单链轮单卷筒组合锚机
Electric single gypsy wheel
single drum combined windlass



液压单链轮单卷筒组合锚机
Hydraulic single gypsy wheel
single drum combined windlass



柴动单链轮单卷筒组合锚机
Diesel engine single gypsy wheel
single drum combined windlass





液压单链轮双卷筒组合锚机
Hydraulic single gypsy wheel
double drum combined windlass



柴动单卷筒绞车
Diesel engine single drum winch



液压双卷筒绞车
Hydraulic double drum winch

电动单卷筒绞车
Electric single drum winch



液压单卷筒绞车
Hydraulic single drum winch



电动单卷筒绞车
Electric single drum winch





液压起锚绞盘
Hydraulic anchor capstan



液压绞盘
Hydraulic capstan



电动起锚绞盘 (电动机卧式)
Electric anchor capstan (Motor horizontal)

电动绞盘 (电动机立式)
Electric capstan (Motor vertical)

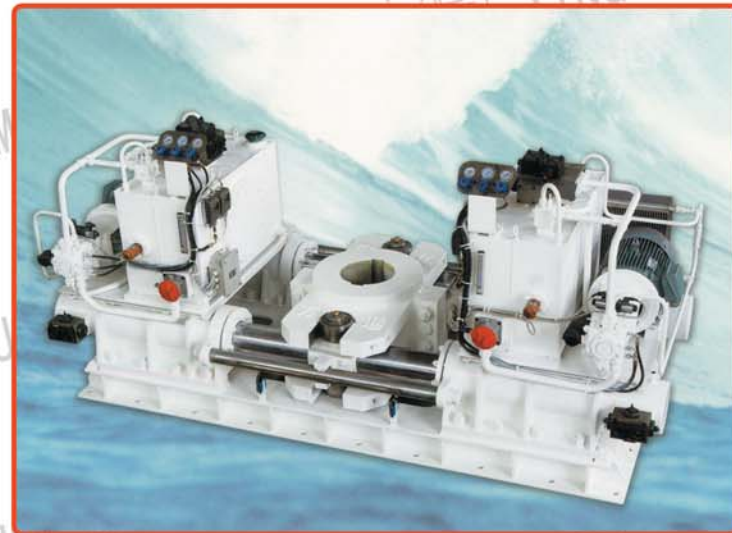


电动起锚绞盘 (电动机立式)
Electric anchor capstan (Motor vertical)



电动绞盘 (电动机卧式)
Electric capstan (Motor horizontal)





拨叉式液压舵机
Fork type eletro-hydraulic steering gear



摆缸式液压舵机
Swinging cylinder eletro-hydraulic steering gear



拨叉式液压舵机
Fork type eletro-hydraulic steering gear

摆缸式液压舵机
Swinging cylinder eletro-hydraulic steering gear



拨叉式液压舵机
Fork type eletro-hydraulic steering gear



摆缸式同步液压舵机
Swinging synchronous cylinder eletro-hydraulic steering gear





液压泵站
Hydraulic pump station



液压舵机驾控台
Eletero-hydraulic
steering gear bridge



液压泵站
Hydraulic pump station

液压舵机驾控台
Eletero-hydraulic
steering gear bridge



液压泵站
Hydraulic pump station



液压舵机驾控台
Eletero-hydraulic
steering gear bridge





起重机
Crane



起重机
Crane



起重机
Crane



起重机
Crane



起重机
Crane



起重机
Crane





■ 出口产品
Exports



■ 出口产品
Exports

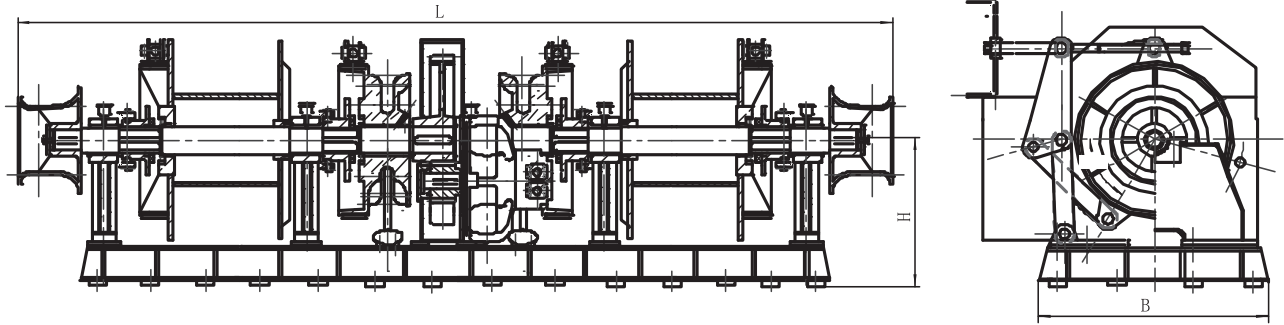


■ 出口产品
Exports

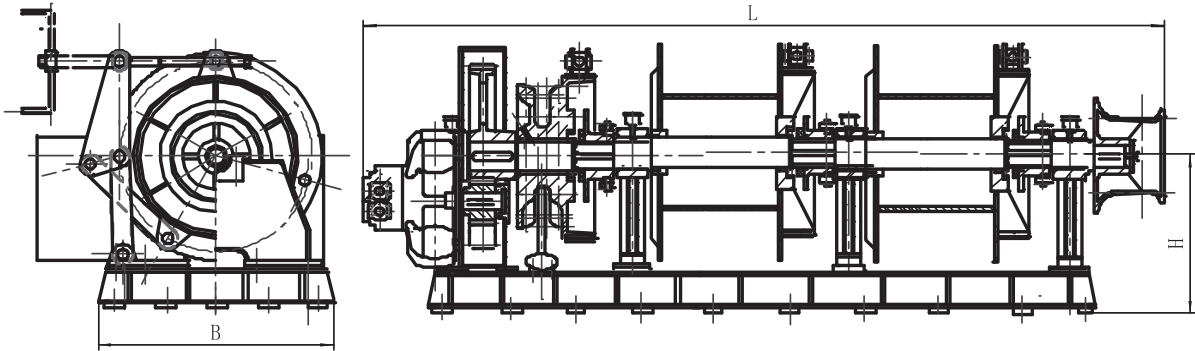




液压、双链轮、双卷筒形式
Hydraulic、Two Chain druw、two drum. TYPE



液压、单链轮、双卷筒形式
Hydraulic、One Chain druw、two drum. TYPE



型号 TYPE	锚链轮 Anchor chain wheel			卷筒 DRUM			电动机 功率 POWER (KW)	外形尺寸 DIMENSION (mm)		
	链 径 CHAINDIA (mm)	负 载 LOAD (kN)	速 度 SPEED (m/min)	负 载 LOAD (kN)	速 度 SPEED (m/min)	容 绳 量 POPE SIZE (mm×m)		L	B	H
YMBA30 _{A2} /YMBA32 _{A2}	30/32	38. 3/43. 5	≥9	20	12	40×180	15	4190	1040	700
YMBA34 _{A2} /YMBA36 _{A2}	34/36	49. 1/55. 1	≥9	30	12	40×180	18. 5	4190	1060	
YMBA38 _{A2} /YMBA40 _{A2}	38/40	61. 4/68	≥9	35	12	50×180	22	4200	1060	
YMBA42 _{A2} /YMBA44 _{A2}	42/44	75/82. 3	≥9	40	12	50×180	30	4220	1260	
YMBA46 _{A2} /YMBA48 _{A2}	46/48	89. 9/97. 9	≥9	50	12	65×180	37	4220	1280	
YMBA50 _{A2} /YMBA50 _{A3}	50/50	106. 3/118. 8	≥9	60	12	65×180	37	4260	1400	
YMBA52 _{A2} /YMBA54 _{A3}	52/54	128. 4/138. 5	≥9	80	12	80×200	37	4500	1600	
YMBA56 _{A2} /YMBA58 _{A3}	56/58	149. /159. 8	≥9	90	12	80×200	45	4500	1600	
YMBA60 _{A2} /YMBA62 _{A3}	60/62	171/182. 6	≥9	100	12	80×200	55	4500	1600	
YMBA64 _{A2} /YMBA66 _{A3}	64/66	194. 6/206. 9	≥9	110	12	100×200	55	5100	1660	
YMBA68 _{A2} /YMBA70 _{A3}	68/70	219. 6/232. 8	≥9	120	12	100×200	55/75	5100	1660	
YMBA73 _{A2} /YMBA76 _{A3}	73/76	253. 1/274. 4	≥9	125	12	绳索规格、品种可根据用户要求，并满足标准规定进行设计。 Ropes specifications variety may, under user requirements and design standards requirements	75	锚机长度、根据用户要求的链轮中心距离、绳索规格、品种并满足标准规定进行设计。 The length of windlass, according to the user requested sprockets center distance, specifications, variety and meet standards for design.	锚机宽度、根据用户要求的绳索规格、品种并满足标准规定进行设计。 The width of windlass, according to the user requested sprockets center distance, specifications, variety and meet standards for design.	锚机高度、根据用户要求的绳索规格、品种并满足标准规定进行设计。 The height of windlass, according to the user requested sprockets center distance, specifications, variety and meet standards for design.
YMBA78 _{A2} /YMBA81 _{A3}	78/81	259/311. 7	≥9	140	12		90			
YMBA84 _{A2} /YMBA87 _{A3}	84/87	335. 2/359. 5	≥9	160	12		110			
YMBA90 _{A2} /YMBA92 _{A3}	90/92	384. 8/402	≥9	165	12		120			
YMBA95 _{A2} /YMBA100 _{A3}	95/100	428. 7/475	≥9	170	12		130			
YMBA105 _{A2} /YMBA107 _{A3}	105/107	523. 7/543. 8	≥9	200	12		145			
YMBA111 _{A2} /YMBA114 _{A3}	111/114	585. 2/617. 3	≥9	220	12		160			
YMBA117 _{A2} /YMBA122 _{A3}	117/122	650. 2/707. 0	≥9	250	12		187			

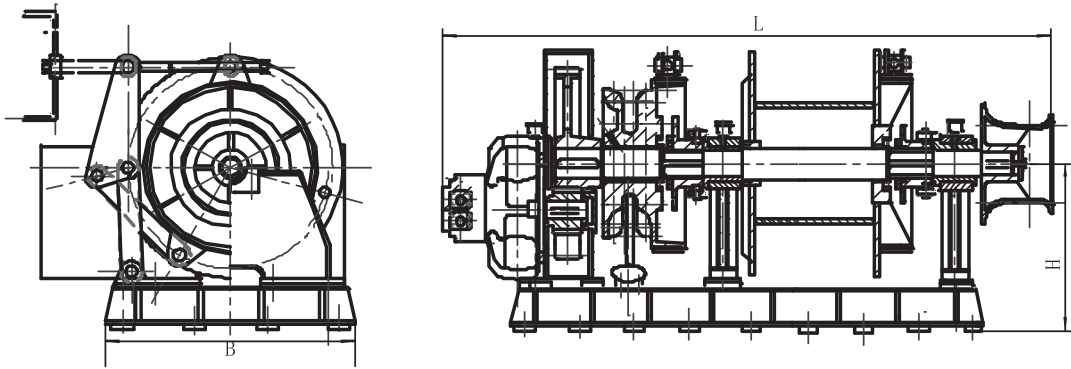
■ 可以提供此说明范围外的产品Out of scope of supply

型号 TYPE	锚链轮 CHAIN DRUM			卷筒 HAWSER DRUM			电动机 功率 POWER (KW)	外形尺寸 DIMENSION (mm)		
	链 径 CHAINDIA (mm)	负 载 LOAD (kN)	速 度 SPEED (m/min)	负 载 LOAD (kN)	速 度 SPEED (m/min)	容 绳 量 POPE SIZE (mm×m)		L	B	H
YMB BZ (Y) 38A2	38	61. 4	≥9	35	12	50×180	22	3800	1060	
YMB BZ (Y) 40A2	40	68	≥9	35	12	50×180	22	3800	1060	
YMB BZ (Y) 42A2	42	75	≥9	40	12	50×180	22	4200	1260	
YMB BZ (Y) 44A2	44	82. 3	≥9	40	12	50×180	30	4220	1260	
YMB BZ (Y) 46A2	46	89. 9	≥9	50	12	65×180	30	4080	1280	
YMB BZ (Y) 48A2	48	97. 9	≥9	50	12	65×180	37	4080	1280	
YMB BZ (Y) 50A2	50	106. 3	≥9	60	12	65×180	37	4360	1400	
YMB BZ (Y) 50A3	50	118. 8	≥9	60	12	80×200	37	4360	1400	
YMB BZ (Y) 52A3	52	128. 4	≥9	80	12	80×200	37	4400	1600	
YMB BZ (Y) 54A3	54	138. 5	≥9	80	12	80×200	45	4400	1600	
YMB BZ (Y) 56A3	56	149	≥9	90	12	80×200	45	4600	1600	
YMB BZ (Y) 58A3	58	159. 8	≥9	90	12	80×200	45	4600	1600	
YMB BZ (Y) 60A3	60	171	≥9	100	12	80×200	55	4600	1600	
YMB BZ (Y) 62A3	62	182. 6	≥9	100	12	80×200	55	4600	1600	
YMB BZ (Y) 64A3	64	194. 6	≥9	110	12	100×200	55	5010	1660	
YMB BZ (Y) 66A3	66	206. 9	≥9	110	12	100×200	55	5010	1660	
YMB BZ (Y) 68A3	68	219. 6	≥9	120	12	100×200	55	5010	1660	
YMB BZ (Y) 70A3	70	232. 8	≥9	120	12	绳索规格、品种可根据用户要求，并满足标准规定进行设计。 Ropes specifications variety may, under user requirements and design standards requirements	75	锚机长度、根据用户要求的链轮中心距离、绳索规格、品种并满足标准规定进行设计。 The length of anchor machine, according to the user requested sprockets centre distance, ropes specifications, variety and meet standards for design	锚机宽度、根据用户要求的链轮中心距离、绳索规格、品种并满足标准规定进行设计。 The windlass width, depending on the user requested sprockets centre distance, ropes specifications, variety and meet standards for design	锚机高度、根据用户要求的链轮中心距离、绳索规格、品种并满足标准规定进行设计。 The windlass height, according to the users request sprockets centre distance, ropes specifications, variety and meet standards for design
YMB BZ (Y) 73A3	73	253. 1	≥9	125	12		75			
YMB BZ (Y) 76A3	76	271. 4	≥9	125	12		75			
YMB BZ (Y) 78A3	78	289	≥9	140	12		90			
YMB BZ (Y) 81A3	81	311. 7	≥9	140	12		90			
YMB BZ (Y) 84A3	83	335. 2	≥9	150	12		110			
YMB BZ (Y) 87A3	87	359. 5	≥9	160	12		110			
YMB BZ (Y) 90A3	90	384. 8	≥9	165	12		120			
YMB BZ (Y) 92A3	92	402	≥9	165	12		120			
YMB BZ (Y) 95A3	95	428. 7	≥9	170	12		130			
YMB BZ (Y) 100A3	100	475	≥9	170	12		130			
YMB BZ (Y) 105/107A3	105/107	523.7/543.8	≥9	200	12		145			
YMB BZ (Y) 111/114A3	111/114	585.2/617.3	≥9	220	12		160			
YMB BZ (Y) 117/122A3	117/122	650.2/707.0	≥9	250	12		187			

■ 可以提供此说明范围外的产品Out of scope of supply



液压、单链轮、单卷筒形式
Hydraulic, One Chain draw, One drum. TYPE

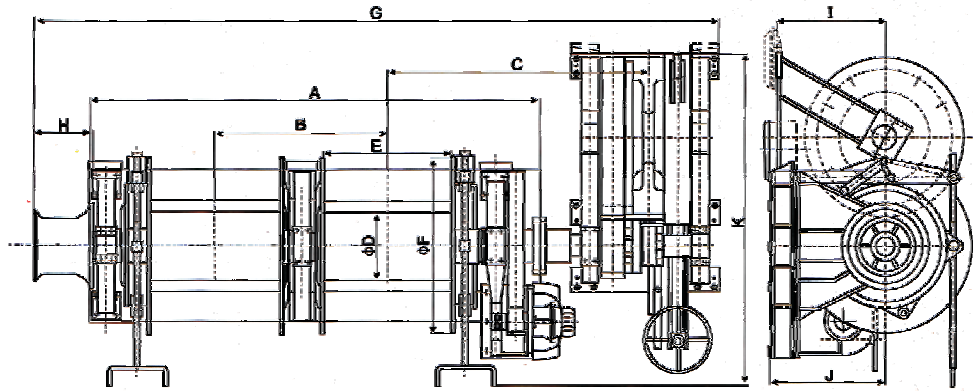


型号 TYPE	锚链轮 CHAIN DRUM			卷筒 HAWSER DRUM			电动机 功率 POWER (KW)	外形尺寸 DIMENSION (mm)		
	链 径 CHAIN DIA (mm)	负 载 LOAD (kN)	速 度 SPEED (m/min)	负 载 LOAD (kN)	速 度 SPEED (m/min)	容 绳 量 POPE SIZE (mm×m)		L	B	H
YMB BZ(Y) 38A ₂	38	61.4	≥9	35	12	50×180	22	2800	1060	
YMB BZ(Y) 40A ₂	40	68	≥9	35	12	50×180	22	2800	1060	
YMB BZ(Y) 42A ₂	42	75	≥9	40	12	50×180	22	3100	1260	
YMB BZ(Y) 44A ₂	44	82.3	≥9	40	12	50×180	30	3100	1260	
YMB BZ(Y) 46A ₂	46	89.9	≥9	50	12	65×180	30	3980	1280	
YMB BZ(Y) 48A ₂	48	97.9	≥9	50	12	65×180	37	3980	1280	
YMB BZ(Y) 50A ₂	50	106.3	≥9	60	12	65×180	37	3160	1400	
YMB BZ(Y) 50A ₃	50	118.8	≥9	60	12	80×200	37	3160	1400	
YMB BZ(Y) 52A ₃	52	128.4	≥9	80	12	80×200	37	3300	1600	
YMB BZ(Y) 54A ₃	54	138.5	≥9	80	12	80×200	45	3300	1600	
YMB BZ(Y) 56A ₃	56	149	≥9	90	12	80×200	45	3400	1600	
YMB BZ(Y) 58A ₃	58	159.8	≥9	90	12	80×200	45	3400	1600	
YMB BZ(Y) 60A ₃	60	171	≥9	100	12	80×200	55	3400	1600	
YMB BZ(Y) 62A ₃	62	182.6	≥9	100	12	80×200	55	3400	1600	
YMB BZ(Y) 64A ₃	64	194.6	≥9	110	12	100×200	55	3700	1660	
YMB BZ(Y) 66A ₃	66	206.9	≥9	110	12	100×200	55	3700	1660	
YMB BZ(Y) 68A ₃	68	219.6	≥9	120	12	100×200	55	3700	1660	
YMB BZ(Y) 70A ₃	70	232.8	≥9	120	12	绳索规格、品种可根据用户要求,并满足标准规定进行设计。 Ropes specifications, variety may, under user requirements and design standards requirements		锚机长度、根据用户要求的链轮中心距离、绳索规格、品种并满足标准规定进行设计。 The length of anchor machine, according to the user requested sprockets centre distance, ropes specifications, variety and meet standards for design	锚机宽度、根据用户要求的链轮中心距离、绳索规格、品种并满足标准规定进行设计。 The windlass width, depending on the user requested sprockets centre distance, ropes specifications, variety and meet standards for design	锚机高度、根据用户要求的链轮中心距离、绳索规格、品种并满足标准规定进行设计。 The windlass height, according to the user requested sprockets centre distance, ropes specifications, variety and meet standards for design
YMB BZ(Y) 73A ₃	73	253.1	≥9	125	12		75			
YMB BZ(Y) 76A ₃	76	271.4	≥9	125	12		75			
YMB BZ(Y) 78A ₃	78	289	≥9	140	12		90			
YMB BZ(Y) 81A ₃	81	311.7	≥9	140	12		90			
YMB BZ(Y) 84A ₃	83	335.2	≥9	150	12		110			
YMB BZ(Y) 87A ₃	87	359.5	≥9	160	12		110			
YMB BZ(Y) 90A ₃	90	384.8	≥9	165	12		120			
YMB BZ(Y) 92A ₃	92	402	≥9	165	12		120			
YMB BZ(Y) 95A ₃	95	428.7	≥9	170	12		130			
YMB BZ(Y) 100A ₃	100	475	≥9	170	12		150			

■ 可以提供此说明范围外的产品Out of scope of supoly



液压单侧式起锚机(双轴型)
Hydraulic single windlass (double shaft)

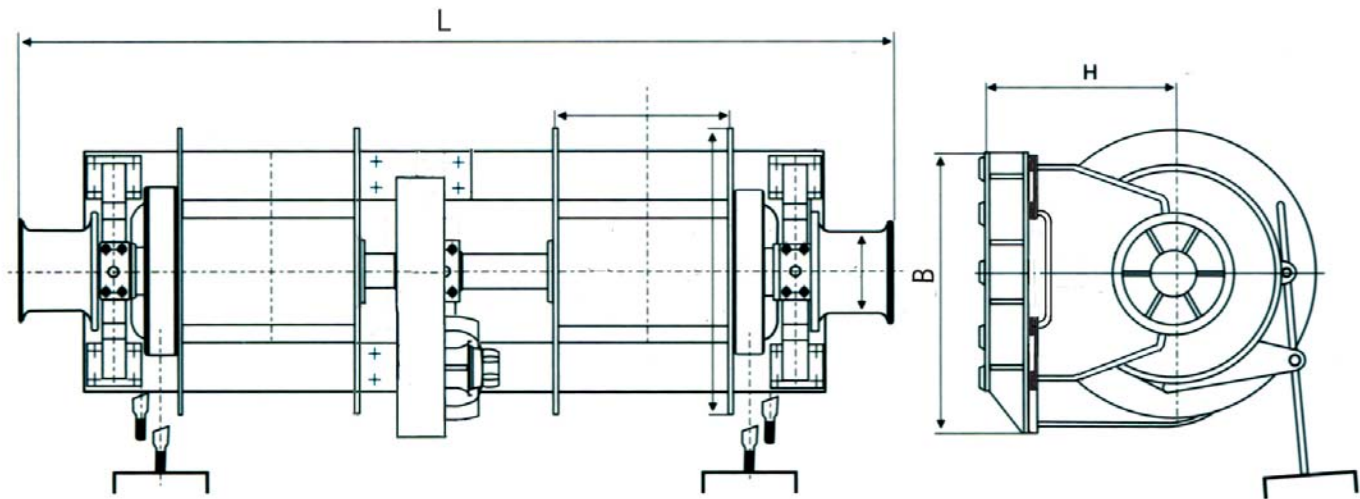


型号 TYPE	锚链轮CHAIN DRUM			卷载HAWSER DRUM			电动机功率 MOTOR POWER (KW)	外形尺寸DIMENSION (mm)										
	链径 CHAIN DTA (mm)	负载 LOAD (KN)	速度 SPEED (m/min)	负载 LOAD (KN)	速度 SPEED (m/min)	容绳量 POPE SIZE (mm×m)		A	B	C	D	E	F	G	H	I	J	K
YMS54 (AM2)	54	123.9	9	80	15	70×200	55	3840	1316	2022	500	1000	1350	5335	480	820	905	2770
YMS56 (AM2)	56	133.3	9	80	15	70×200	55	3840	1316	2022	500	1000	1350	5335	480	820	905	2770
YMS58 (AM2)	58	143	9	80	15	70×200	55	3500	1316	2036	500	1000	1400	5380	480	820	905	2800
YMS60 (AM2)	60	153	9	80	15	70×200	55	3500	1316	2036	500	1000	1400	5380	480	820	905	2800
YMS62 (AM2)	62	163.4	9	100	16	80×220	75	2919	1396	2348	500	1120	1480	5975	498	870	940	2810
YMS64 (AM2)	64	174.1	9	100	16	80×220	75	2919	1396	2348	500	1120	1480	5975	498	870	940	2810
YMS66 (AM2)	66	185.1	9	100	16	80×220	75	3710	2192	3145	500	1120	1480	6590	520	950	1130	3110
YMS68 (AM2)	68	196.5	9	100	16	80×220	75	3710	2192	3145	500	1120	1480	6590	520	950	1130	3110
YMS70 (AM2)	70	208.3	9	125	16	80×220	75	3980	2192	3985	500	1120	1480	6910	520	1050	1200	3300
YMS73 (AM2)	73	226.5	9	125	16	80×220	75	3980	2192	3985	500	1120	1480	6910	520	1050	1200	3300
YMS76 (AM2)	76	245.5	9	125	16	80×220	90	4100	2192	4000	550	1120	1500	6910	520	1050	1200	3480
YMS78 (AM2)	78	258.6	9	125	16	80×220	90	4100	2192	4000	550	1120	1500	6910	520	1050	1200	3480
YMS81 (AM2)	81	278.8	9	125	16	80×220	90	4100	2192	4100	550	1120	1600	7030	520	1050	1200	3520
YMS84 (AM2)	84	299.8	9	125	16	80×220	90	4100	2192	4100	550	1120	1600	7030	520	1050	1200	3520
YMS87 (AM2)	87	321.7	9	125	16	80×220	90	4100	2192	4220	550	1120	1600	7080	520	1050	1200	3580
YMS90 (AM2)	90	344.3	9	125	16	80×220	90	4100	2192	4220	550	1120	1600	7080	520	1050	1200	3580
YMS50 (AM3)	50	118.8	9	80	15	70×200	55	3840	1316	2022	500	1000	1350	5335	480	820	905	2770
YMS52 (AM3)	52	128.4	9	80	15	70×200	55	3840	1316	2022	500	1000	1350	5335	480	820	905	2770
YMS54 (AM3)	54	138.5	9	80	15	70×200	55	3500	1316	2036	500	1000	1400	5380	480	820	905	2800
YMS56 (AM3)	56	149	9	80	15	70×200	55	3500	1316	2036	500	1000	1400	5380	480	820	905	2800
YMS58 (AM3)	58	159.8	9	100	16	80×220	75	2919	1396	2348	500	1120	1480	5975	498	870	940	2810
YMS60 (AM3)	60	171	9	100	16	80×220	75	2919	1396	2348	500	1120	1480	5975	498	870	940	2810
YMS62 (AM3)	62	182.6	9	100	16	80×220	75	3710	2192	3145	500	1120	1480	6590	520	950	1130	3110
YMS64 (AM3)	64	194.6	9	100	16	80×220	75	3710	2192	3145	500	1120	1480	6590	520	950	1130	3110
YMS66 (AM3)	66	206.9	9	125	16	80×220	75	3980	2192	3985	500	1120	1480	6910	520	1050	1200	3300
YMS68 (AM3)	68	219.6	9	125	16	80×220	75	3980	2192	3985	500	1120	1480	6910	520	1050	1200	3300
YMS70 (AM3)	70	232.1	9	125	16	80×220	90	4100	2192	4000	550	1120	1500	6910	520	1050	1200	3480
YMS73 (AM3)	73	253.1	9	125	16	80×220	90	4100	2192	4000	550	1120	1500	6910	520	1050	1200	3480
YMS76 (AM3)	76	274.4	9	125	16	80×220	90	4100	2192	4100	550	1120	1600	7030	520	1050	1200	3520
YMS78 (AM3)	78	289	9	125	16	80×220	90	4100	2192	4100	550	1120	1600	7030	520	1050	1200	3520
YMS81 (AM3)	81	311.7	9	125	16	80×220	90	4100	2192	4220	550	1120	1600	7080	520	1050	1200	3580
YMS84 (AM3)	84	335.2	9	125	16	80×220	90	4100	2192	4220	550	1120	1600	7080	520	1050	1200	3580
YMS87 (A3)	87	359.5	9	160	12	绳索规格、品种可根据用户要求,并满足标准规定进行设计。 Ropes specifications variety may, under user requirements and design standards requirements	锚机长度、根据用户要求的链轮中心距离、绳索规格、品种并满足标准规定进行设计。 The length of windlass, according to the user requested sprockets center distance, specifications, variety and meet standards for design.	锚机宽度、根据用户要求的链轮中心距离、绳索规格、品种并满足标准规定进行设计。 The width of windlass, according to the user requested sprockets center distance, specifications, variety and meet standards for design.	锚机高度、根据用户要求的链轮中心距离、绳索规格、品种并满足标准规定进行设计。 The height of windlass, according to the user requested sprockets center distance, specifications, variety and meet standards for design.									
YMS90 (A3)	90	384.8	9	165	12													
YMS92 (A3)	92	402	9	165	12													
YMS95 (A3)	95	428.7	9	170	12													
YMS100 (A3)	100	475	9	170	12													
YMS105 (A3)	105	523.7	9	200	12													
YMS107 (A3)	107	543.8	9	200	12													
YMS111 (A3)	111	585.2	9	220	12													

■ 可以提供此说明范围外的产品Out of scope of supoly



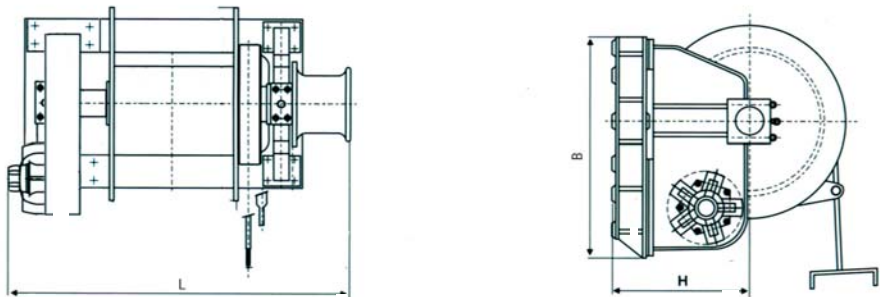
液压组合式系泊绞车(双卷筒)
Hydraulic combined mooring winch (two drum)



型号 TYPE	卷筒 DRUM			电动机 功率 POWER (KW)	外形尺寸 DIMENSION (mm)		
	负 载 LOAD (kN)	速 度 SPEED (m/min)	容 绳 量 POPE SIZE (mm×m)		L	B	H
YB30	30	≥15	50×150	18.5	3425	1230	760
YB40	40	≥15	50×150	18.5	3425	1230	760
YB50	50	≥15	50×150	22	3730	1300	785
YB60	60	≥15	65×160	30	4040	1350	810
YB70	70	≥15	65×160	30	4040	1350	810
YB80	80	≥15	65×180	37	4285	1450	910
YB100	100	≥15	65×180	45	4285	1450	910
YB125	125	≥15	80×200	55	4420	1560	960
YB160	160	≥15	80×200	75	4720	1560	960
YB200	200	≥15	100×200	90	4910	1680	1120
YB250	250	≥15	100×200	110	5110	1680	1120
YB300	300	≥7.8	绳索规格、品种可根据用户要求，并满足标准规定进行设计。 Ropes specifications variety may, under user requirements and design standards requirements	90	锚机长度、根据用户要求的链轮中心距离、绳索规格、品种并满足标准规定进行设计。 The length of windlass, according to the user requested sprockets center distance, specifications, variety and meet standards for design.	锚机宽度、根据用户要求的绳索规格、品种并满足标准规定进行设计。 The width of windlass, according to the user requested sprockets center distance, specification s, variety and meet standards for design.	锚机高度、根据用户要求的绳索规格、品种并满足标准规定进行设计。 The height of windlass, according to the user requested sprockets center distance, specification s, variety and meet standards for design.
YB400	400	≥7.8		110			
YB450	450	≥6		110			
YB500	500	≥6		110			
YB560	560	≥6		132			
YB600	600	≥6		132			
YB650	650	≥5		132			
YB1000	1000	≥4		132			
YB1200	1200	≥4		160			
YB1500	1500	≥4		200			
YB1800	1800	≥4		250			
YB2000	2000	≥4		270			

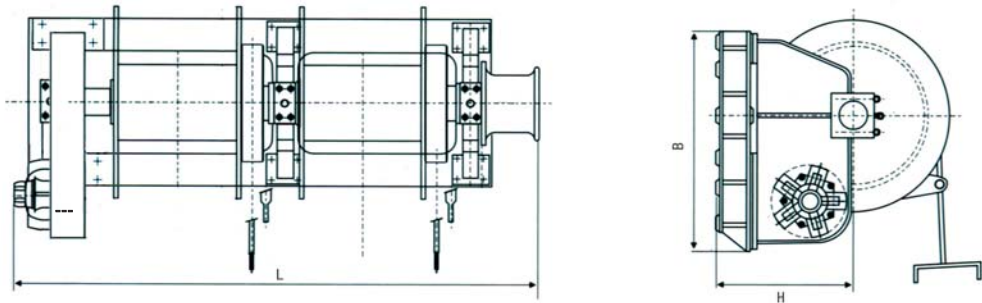
■ 可以提供此说明范围外的产品Out of scope of suply

液压单侧式系泊绞车
Hydraulic single mooring winch



单卷筒(One drum)

型号 TYPE	卷筒HAWSER DRUW			电动机功率 POWER (KW)	外型尺寸DIMENSION (mm)		
	负 载 LOAD (KN)	速度 SPEED (m/min)	容绳量 POPE SIZE (mm×m)		L	B	H
YB30	30	15	50×150	18.5	1965	1230	760
YB40	40	15	50×150	18.5	1965	1230	760
YB50	50	15	60×150	22	2140	1300	785
YB60	60	15	70×160	30	2295	1350	810
YB70	70	15	70×160	30	2295	1350	810
YB80	80	15	80×180	37	2540	1450	910
Yb100	100	15	80×180	45	2540	1450	910



双卷筒(Two drum)

型号 TYPE	卷筒HAWSER DRUW			电动机功率 POWER (KW)	外型尺寸DIMENSION (mm)		
	负 载 LOAD (KN)	速度 SPEED (m/min)	容绳量 POPE SIZE (mm×m)		L	B	H
YB30	30	15	50×180	18.5	2950	1230	600
YB40	40	15	50×180	18.5	2950	1230	600
YB50	50	15	50×180	22	3270	1300	748
YB60	60	15	50×180	30	3555	1350	850
YB70	70	15	50×180	30	3555	1350	850
YB80	80	15	65×180	37	3820	1450	900
YB100	100	15	65×180	45	3820	1450	900
YB125	125	15	65×200	55	4110	1510	920
YB160	160	15	65×200	75	4320	1510	920
YB200	200	15	100×220	90	4605	1580	950
YB250	250	15	100×220	110	4830	1580	950

■ 可以提供此说明范围外的产品Out of scope of suply

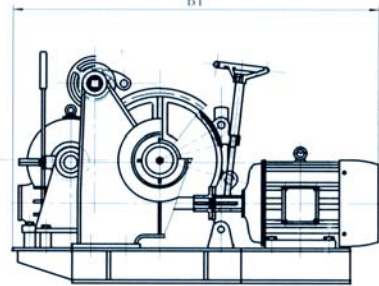
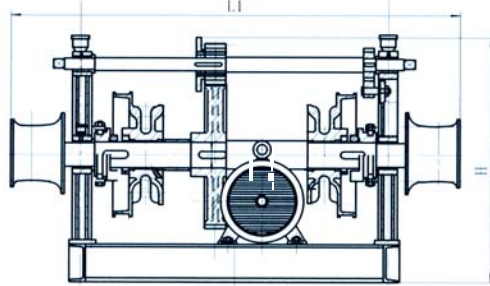


电动/柴动起锚机
Electric (Diesel) anchor windlass

工程船绞车
Winchess for engineering vessel

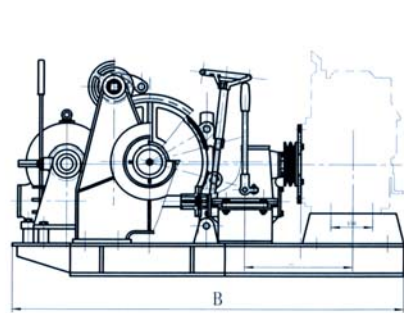
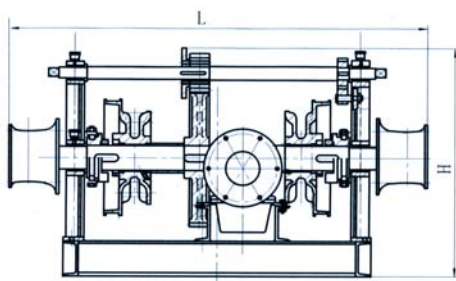


电动起锚机 Electric anchor windlass



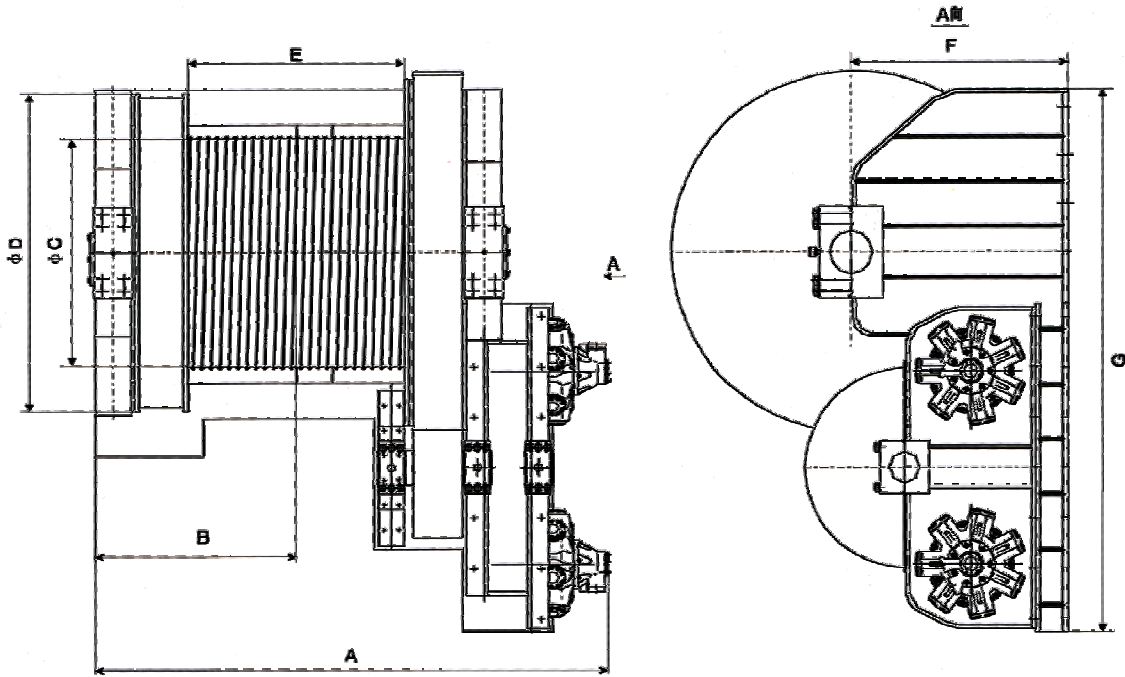
型号 TYPE	锚链轮CHAIN DRUM			电动机功率 POER (KW)	外型尺寸DIMENSION (mm)		
	负载 LOAD (KN)	速度 SPEED (m/min)	链径 CHAIN DIA (mm)		L	B	H
DM17.5	11.5	≥9	17.5	4	1650	1240	420
DM19/22	13.5/18.2	≥9	19/22	4/5.5	1850	1260	450
DM25	28.5	≥9	25	7.5	1920	1280	470
DM28/30/32	33.3/38.3/43.5	≥9	28/30/32	11/11/15	2360	1280/1420/1420	510
DM34/36	49.1/55.1	≥9	34/36	18.5	2360/2560	1420/1580	510/550
DM38/40	61.4/68	≥9	38/40	22	2560/3000	1580/1780	550/750
DM42/44	75/82.3	≥9	42/44	30	3000	1780	750
DM46/48	89.9/97.9	≥9	46/48	37	3300	1900	800
DM50/50A3	103/118.4	≥9	50	45	3500	2000	800
DM52/54/56A3	128.4/128.5/149	≥9	52/54/56	45/55/55	3800	2100	850

柴动起锚机 Diesel anchor windlass



型号 TYPE	锚链轮CHAIN DRUM			柴油机功率 POER (KW)	外型尺寸DIMENSION (mm)		
	负载 LOAD (KN)	速度 SPEED (m/min)	链径 CHAIN DIA (mm)		L	B	H
CM17.5	11.5	≥9	17.5	7.7	1650	1500	420
CM19/22	13.5/18.2	≥9	19/22	7.7	1850	1540	450
CM25	28.5	≥9	25	7.7	1920	1670	470
CM28/30/32	33.3/38.3/43.5	≥9	28/30/32	11.3/11.3/14.7	2360	1670/1900/1900	510
CM34/36	49.1/55.1	≥9	34/36	14.7/19.41	2360/2560	1900/2150	510/550
CM38/40	61.4/68	≥9	38/40	24-48	2560/3000	2150/2300	550/750
CM42/44	75/82.3	≥9	42/44	24-48	3000	2300	750
CM46/48	89.9/97.9	≥9	46/48	24-48	3300	2500	800
CM50/CM50A3	103/118.4	≥9	50	24-48	3500	2800	800
CM52/CM54	128.4/138.5	≥9	52/54	45/50	3800	2100	850
CM56	149	≥9	56	55	4000	2200	850

■ 可以提供此说明范围外的产品Out of scope of supply

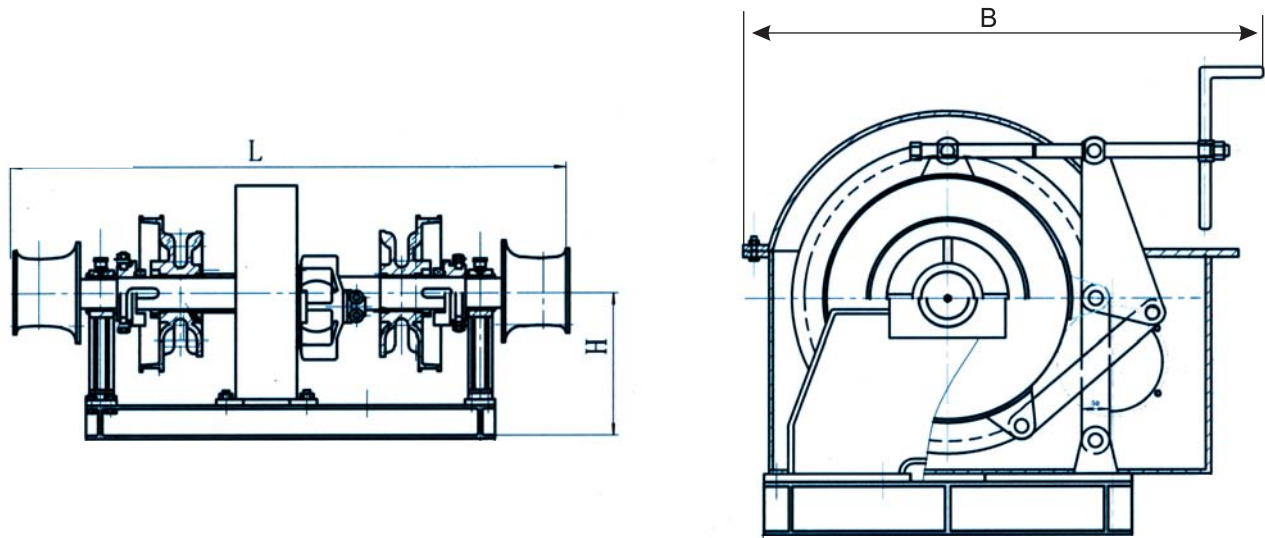


型号 TYPE	卷筒 DRUM			外形尺寸 DIWENSION (mm)						
	负 载 LOAD (kN)	速 度 SPEED (m/min)	容 绳 量 POPE SIZE (mm×m)	A	B	ΦC	ΦD	E	F	G
YB450	450	≥20	50×150	3315	1300	1500	2050	1400	1400	3495
YB500	500	≥20	50×150	3745	1490	1500	2050	1800	1400	3495
YB560	560	≥20	50×150	3745	1490	1500	2050	1800	1400	3495
YB600	600	≥15	绳索规格、品种可根据用户要求，并满足标准规定进行设计。 Ropes specifications variety may, under user requirements and design standards requirements	长度、根据用户要求的链轮中心距离、绳索规格、品种并满足标准规定进行设计。 The length of windlass, according to the user requested sprockets center distance, specifications, variety and meet standards for design.	宽度、根据用户要求的绳索规格、品种并满足标准规定进行设计。 The width of windlass, according to the user requested sprockets center distance, specifications, variety and meet standards for design.	高度、根据用户要求的绳索规格、品种并满足标准规定进行设计。 The height of windlass, according to the user requested sprockets center distance, specifications, variety and meet standards for design.				
YB650	650	≥15								
YB800	800	≥15								
YB1000	1000	≥9								
YB1200	1200	≥9								
YB1500	1500	≥7.2								
YB1800	1800	≥7.2								
YB2000	2000	≥6.5								

■ 可以提供此说明范围外的产品Out of scope of supply



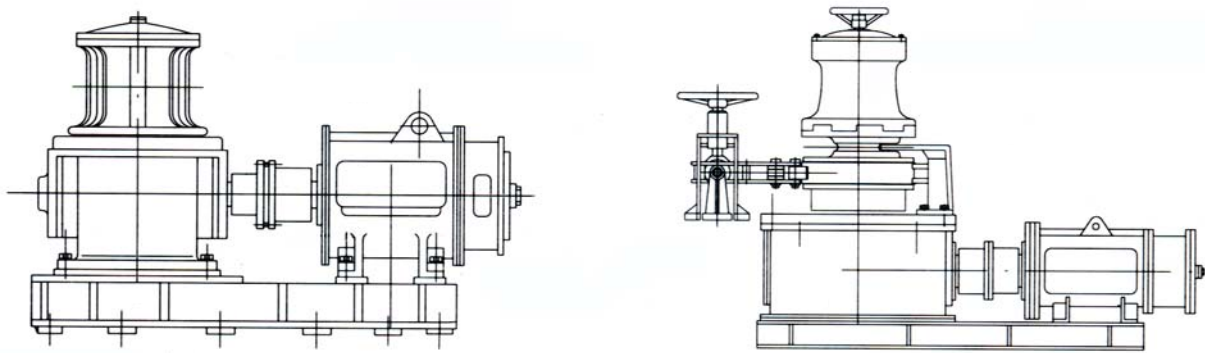
液压起锚机
Hydraulic windlass



型号 TYPE	锚链轮CHAIN DRUM			电动机功率 POWER (KW)	外型尺寸DIMENSION (mm)		
	负载 LOAD (KN)	速度 SPEED (m/min)	链径 CHAIN DIA (mm)		L	B	H
YM17.5/19	11.5/13.5	≥9	17.5/19	4/5.5	1650/1850	820/850	420/450
YM22/25	18.2/28.5	≥9	22/25	5.5/7.5	1850/1900	850/900	450/470
YM28/30	33.3/38.3	≥9	28/30	11/11	2360/2360	1100/1100	500/500
YM32/34	43.5/49.1	≥9	32/34	15/18.5	2360/2500	1100/1200	500/520
YM36/38	55.1/61.4	≥9	36/38	22/22	2500/2560	1250/1250	520/550
YM40/42	68/75	≥9	40/42	30/30	2560/3000	1250/1500	550/600
YM44/46	82.3/89.9	≥9	44/46	30/30	3000/3300	1500/1600	600/650
YM48/50	97.9/106.3	≥9	48/50	37/37	3300/3600	1600/1600	650/650
YM50A3/YM52A3	118.8/128.4	≥9	50/52	37/45	3600/3600	1600/1700	650/700
YM54A3/YM56A3	138.5/149	≥9	54/56	45/55	3600/3600	1700/1700	700/700
YM58/YM60	143/153	≥9	58/60	55			
YM62/YM64	163.4/174.1	≥9	62/64	55			
YM66/YM68	185.1/196.5	≥9	66/68	75			
YM70/YM73	208.3/226.5	≥9	70/73	75			
YM76/YM78	245.5/258.6	≥9	76/78	90			
YM81/YM84	311.7/335.2	≥9	81/84	110			
YM87/YM90	359.5/384.8	≥9	87/90	120			
YM92/YM95	402/428.7	≥9	92/95	130			
YM97/YM100	446.9/475	≥9	97/100	150			
YM105/YM107	523.7/543.8	≥9	105/107	145			
YM111/YM114	585.2/617.3	≥9	111/114	160			
YM117/YM112	650.2/707.0	≥9	117/122	187			

■ 可以提供此说明范围外的产品Out of scope of supply

电动系统/起锚系统绞盘
Electric (Anchor And) Mooring Rope Capstan



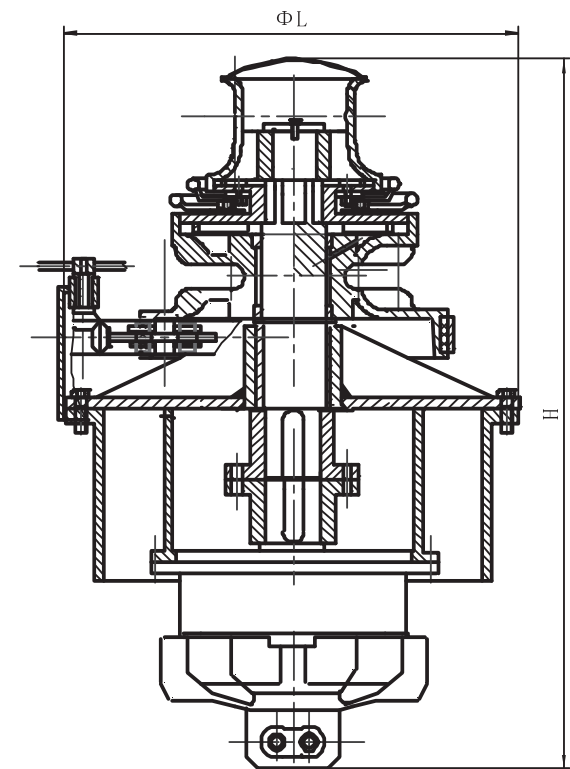
电动系统绞盘(Electric Mooring Rope Capstan)

名称 Name	系统负载 LOAD (KN)	系统速度 SPEED (m/min)	钢丝绳直径 Wire Dia. (mm)	电动机功率 MOTORPOWER (KW)
5kN电动系统绞盘 Electric Mooring Rope Capstan	5	≥18	Φ11	3/1.2
10kN电动系统绞盘 Electric Mooring Rope Capstan	10	≥18	Φ11	4.3/1.7
15kN电动系统绞盘 Electric Mooring Rope Capstan	15	≥18	Φ13	8.5/3.5
10-20kN电动系统绞盘 Electric Mooring Rope Capstan	10/15/20	≥18	Φ15	11/11/7.5
30kN电动系统绞盘 Electric Mooring Rope Capstan	30	≥18	Φ17.5	16/16/11
30-50kN电动系统绞盘 Electric Mooring Rope Capstan	30/40/50	≥18	Φ20.5	22/22/16
50kN电动系统绞盘 Electric Mooring Rope Capstan	50	≥16/18	Φ20.5	22/22/16
50-70kN电动系统绞盘 Electric Mooring Rope Capstan	50/70	≥15	Φ26	30/30/22
100kN电动系统绞盘 Electric Mooring Rope Capstan	100	≥15	Φ28	45/45/30
120kN电动系统绞盘 Electric Mooring Rope Capstan	120	≥15	Φ32.5	60/60/45
150kN电动系统绞盘 Electric Mooring Rope Capstan	150	≥15	Φ36.5	60/60/45

电动起锚系统绞盘(Electric Anchor And Mooring Rope Capstan)

名称 Name	锚链直径 Chain Dia. (mm)	工作负载 LOAD (KN)	起锚速度 SPEED (m/min)	系统负载 LOAD (KN)	系统速度 SPEED (m/min)	钢丝绳直径 Wire Dia. (mm)	电动机功率 POWER (KW)
Φ12.5/14电动起锚绞盘 Electric Anchor And Mooring Rope Capstan	12.5/14	5.9/7.4	≥12	5	≥10	Φ11	4.3/1.7
Φ16/17电动起锚绞盘 Electric Anchor And Mooring Rope Capstan	16/17.5	10.9/13.0	≥12	8	≥10	Φ13	8.5/3.5
Φ19/22电动起锚绞盘 Electric Anchor And Mooring Rope Capstan	19/22	15.3/20.6	≥12	10	≥10	Φ13	8.5/3.5
Φ26电动起锚绞盘 Electric Anchor And Mooring Rope Capstan	26	28.7	≥12	20	≥8.5	Φ15	11/11/7.5
Φ28电动起锚绞盘 Electric Anchor And Mooring Rope Capstan	28	33.3	≥12	30	≥8.5	Φ17.5	16/16/11
Φ30/32电动起锚绞盘 Electric Anchor And Mooring Rope Capstan	30/32	38.3/43.5	≥12	30	≥8.5	Φ17.5	16/16/11
Φ34/36电动起锚绞盘 Electric Anchor And Mooring Rope Capstan	34/36	49.1/55.1	≥12	30	≥8.5	Φ17.5	22/22/16
Φ38/40电动起锚绞盘 Electric Anchor And Mooring Rope Capstan	38/40	61.4/68.0	≥12	50	≥8.5	Φ20.5	22/22/16

■ 可以提供此说明范围外的产品Out of scope of supply



故障现象	故障分析	排除方法
压力不正常	1、油液中有空气 2、安全阀调整错误 3、液压泵损坏 4、泵的驱动装置损坏 5、泵转速过低	排气、堵漏、加油 调整安全阀 修理或更换 更换联轴器 检查电动机及控制
速度不正常	1、安全阀调整错误 2、变量泵正常调节无效 3、泵、阀及其它元件磨损 4、系统内泄漏严重 5、油液被污染，阀芯卡住	调整安全阀 修理或更换 修理或更换 紧联接、换密封 修理或更换
噪声过大	1、油液中有空气 2、安全阀磨损 3、管路噪声 4、泵与电动机同轴度低	重新排气 修理或更换 重新布置管路 重新调整
油液温度过高	1、油液中有空气 2、油液脏或供油不足 3、油液粘度不对 4、泵、阀、液压马达磨损 5、过载 6、安全阀调整错误	重新排气 清洗或更换滤油器；加油 更换适合粘度的油液 修理或更换 降低速度 调整安全阀

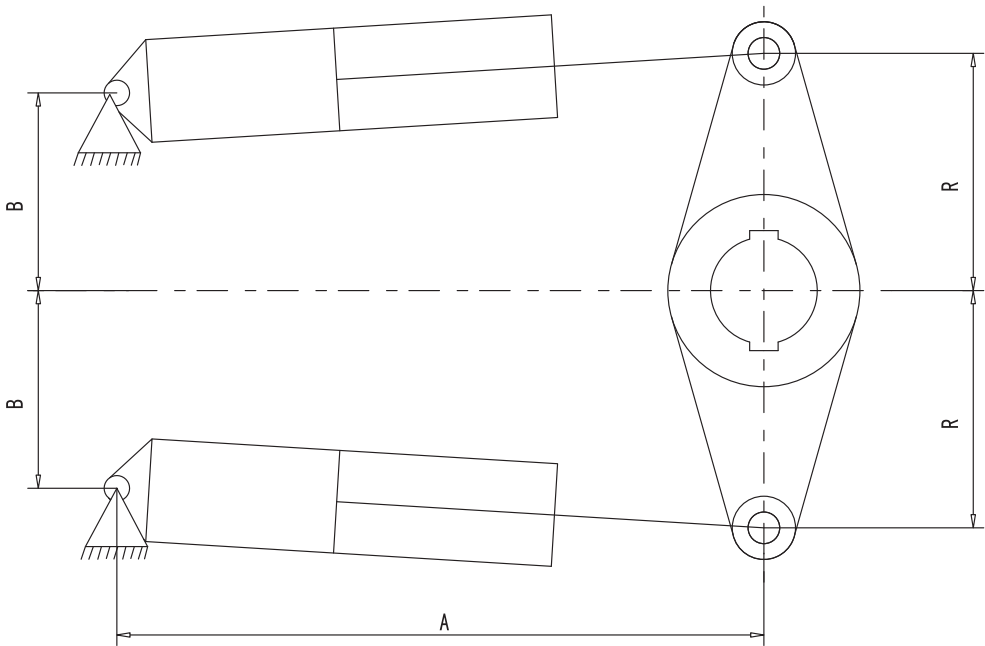
型号 TYPE	锚链轮 CHAIN DRUM			电动机 功率 POWER (KW)	外形尺寸 DIMENSION (mm)	
	链 径 CHAIN DIA (mm)	负 载 LOAD (kN)	速 度 SPEED (m/min)		ΦL	H
YMJ30A2/YMBJ32A2	30/32	38. 3/43. 5	≥9	15	700	1100
YMJ34A2/YMJ36A2	34/36	49. 1/55. 1	≥9	18. 5	750	1200
YMJ38A2/YMJ40A2	38/40	61. 4/68	≥9	22	900	1400
YMJ42A2/YMJ44A2	42/44	75/82. 3	≥9	30	1100	1600
YMJ46A2/YMJ48A2	46/48	89. 9/97. 9	≥9	37	1200	1800
YMJ50A2/YMJ50A3	50/50	106. 3/118. 8	≥9	37	1300	2000
					Anchor winch height requirement specificatio ns, varieties of ropes and satisfy requirements for design	锚绞盘高度、可根 据用户要求的绳 索规格、品种并满 足标准规定进行 设计。

Symptoms	Failure analysis	Troubleshooting methods
Pressure is not working properly	1, oil in air 2, the relief valve adjustment errors 3, hydraulic pump damaged 4, the pump drive device damage 5, pump speed too low	Exhaust, against leak, refueling Adjust relief valve Repair or replace Replacement of coupling Check the motor and control
Speed is not working properly	1. the relief valve adjustment errors 2, an invalid variable pump normal regulation 3, pumps, valves, and other components and wear 4. the serious internal leakage 5, oil contaminated, spool jammed	Adjust relief valve Repair or replace Repair or replace Seal tightly joins, heat exchangers Repair or replace
Noise is too large	1, oil in air 2, the relief valve wear 3, pipe line noise 4, pump and motor axiality low	Then restart the exhaust Repair or replace Rearrange pipeline Resize
Excessive oil temperature	1, oil in air 2, oil dirty or not enough oil supply 3, is the wrong oil viscosity 4, pumps, valves, hydraulic motor wear 5, overload 6、Safety valve adjustment errors	Then restart the exhaust Clean or replace the oil filter; refuel Replacement of suitable oil viscosity of Repair or replace Reduce speed Adjust relief valve

■ 可以提供此说明范围外的产品Out of scope of supoly



Specification & Dimension 适用于 FOR **DYB-6.3 ~ 160-12**



■ 可以提供此说明范围外的液压舵机 Out of scope of Supply

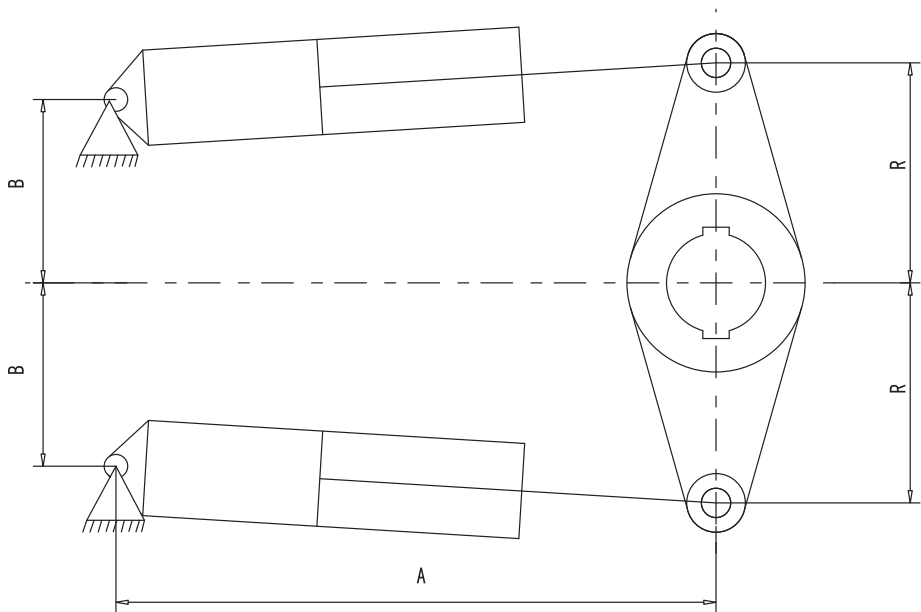
说明 Specification (DYB-***-12)

型 号 Type		6.3	10	16	20	25	30	40	50	63	75	100	125	160	
公 称 扭 矩 Torque at maximum working oil pressure	kN.m	6.3	10	16	20	25	30	40	50	63	75	100	125	160	
转 舵 速 度 Rudder turning speed	deg./sec.	65/12													
舵 杆 直 径 Diameter of ram	mm	60	110	120	130	135	150	160	170	175	210	230	250	270	
舵 柄 半 径 Normal tiller radius	mm	230		300					480		520		600		
工 作 压 力 Maximum working oil pressure	MPa	6.2	6.5	7.5	9.1	10.9	8	10.3	12.5	8.4	11.1	14.7	11.8	15	
设 计 压 力 Safety valve pressure (Design pressure)	MPa	7.8	8.1	9	10.9	13.2	9.6	12.4	15.7	10.5	13.9	18.4	14.8	18.5	
电动机 Electric Motor	功 率 Output	kW	1.5	2.2	3		5.5	7.5		11		15	18.5	22	
	转 速 Revolution	rpm	同步转速 1500r/min 4极 1500 (synchronous speed)												
蓄能器 Accumulator	容 积 Cubage	L	80		180										
直流电机 Direct current Motor	功 率 Output	kW				3		5.5	7.5		10		13	17	22
尺 寸 Dimensions	A	852	852	820	820	820	980	980	1336	1336	1382	1382	1453	1453	
	B	200	200	250	250	250	200	200	300	300	325	325	350	350	
	R	230	230	300	300	300	300	300	480	480	520	520	600	600	

★注：上表中的液压舵机的正常转舵角为±35deg，电源频率50Hz。如需特殊要求的液压舵机，请与我们联系，沟通。

★ Note: The above list is complied for rudder turning angle ±35 deg.and electric source of 50Hz. Steering gear for special particulars are available with us high workmanship design.

Specification & Dimension 适用于 FOR **DYB-6.3 ~ 250-20**



■ 可以提供此说明范围外的液压舵机 Out of scope of Supply

说明 Specification (DYB-***-20)

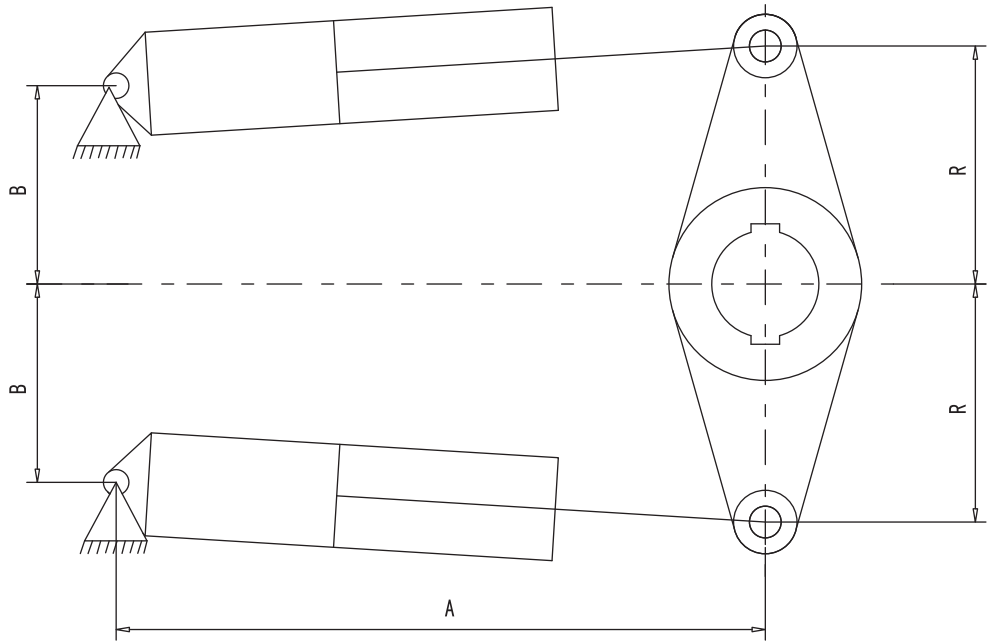
型 号 Type		6.3	10	16	20	25	30	40	50	63	75	100	125	160	200	250	
公称扭矩 Torque at maximum working oil pressure		kN.m	6.3	10	16	20	25	30	40	50	63	75	100	125	160	200	250
转舵速度 Rudder turning speed		deg/sec.	65/20														
舵杆直径 Diameter of ram		mm	60	110	120	130	135	150	160	170	175	210	230	250	270	290	300
舵柄半径 Normal tiller radius		mm	230		300					480		520		600		650	725
工作压力 Maximum working oil pressure		MPa	6.2	6.5	7.5	9.1	10.9	8	10.3	12.5	8.4	11.1	14.7	11.8	15	12.4	15.5
设计压力 Safety valve pressure (Design pressure)		MPa	7.8	8.1	9	10.9	13.2	9.6	12.4	15.7	10.5	13.9	18.4	14.8	18.5	15.5	19.4
电动机 Electric Motor	功率 Output	kW	1.1		2.2	3		4		5.5		7.5	11		15	18.5	22
	转速 Revolution	rpm	同步转速 1500r/min 4极 1500 (synchronous speed)														
尺 寸 Dimensions		A	852	852	820	820	820	980	980	1336	1336	1382	1382	1453	1453	1703	1830
		B	200	200	250	250	250	200	200	300	300	325	325	350	350	3320	3320
		R	230	230	300	300	300	300	300	480	480	520	520	600	600	650	725

★注：上表中的液压舵机的正常转舵角为±35deg，电源频率50Hz。如需特殊要求的液压舵机，请与我们联系，沟通。

★ Note: The above list is complied for rudder turning angle ±35 deg.and electric source of 50Hz. Steering gear for special particulars are available with us high workmanship design.



Specification & Dimension 适用于 FOR **DYB-6.3 ~ 250-28**



■ 可以提供此说明范围外的液压舵机 Out of scope of Supply

说明 Specification (DYB-***-28)

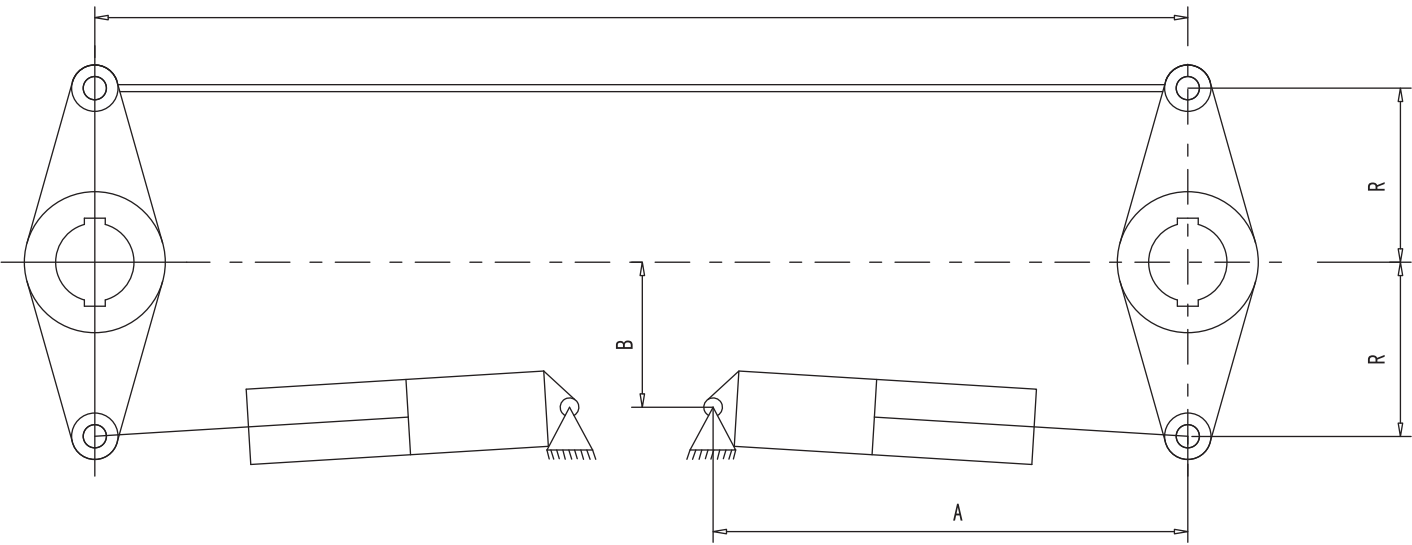
型 号 Type		6.3	10	16	20	25	30	40	50	63	75	100	125	160	200	250		
公称扭矩 Torque at maximum working oil pressure	kN.m	6.3	10	16	20	25	30	40	50	63	75	100	125	160	200	250		
转舵速度 Rudder turning speed	deg/sec.	65/28																
舵杆直径 Diameter of ram	mm	60	110	120	130	135	150	160	170	175	210	230	250	270	290	300		
舵柄半径 Normal tiller radius	mm	230		300			360		480		520		600		650	725		
工作压力 Maximum working oil pressure	MPa	6.2	6.5	7.5	9.1	10.9	6.9	8.8	12.5	8.4	11.1	14.7	11.8	15	12.4	15.5		
设计压力 Safety valve pressure (Design pressure)	MPa	7.8	8.1	9	10.9	13.2	8.3	10.6	15.7	10.5	13.9	18.4	14.8	18.5	15.5	19.4		
电动机 Electric Motor	功率 Output	kW	0.75	1.1		2.2		3		4		5.5		7.5		11	15	18.5
	转速 Revolution	rpm	同步转速 1500r/min 4极 1500 (synchronous speed)															
尺 寸 Dimensions		A	852	852	820	820	820	1130	1130	1336	1336	1382	1382	1453	1453	1703	1830	
		B	200	200	250	250	250	300	300	300	300	325	325	350	350	3320	3320	
		R	230	230	300	300	300	360	360	480	480	520	520	600	600	650	725	

★注：上表中的液压舵机的正常转舵角为 $\pm 35^\circ$ ，电源频率50Hz。
如需特殊要求的液压舵机，请与我们联系，沟通。

★ Note: The above list is complied for rudder turning angle $\pm 35^\circ$ deg.and electric source of 50Hz.
Steering gear for special particulars are available with us high workmanship design.



Specification & Dimension 适用于 FOR **DYB-6.3 ~ 160-12-2**



■ 可以提供此说明范围外的液压舵机 Out of scope of Supply

说明 Specification (DYB-***-12-2)

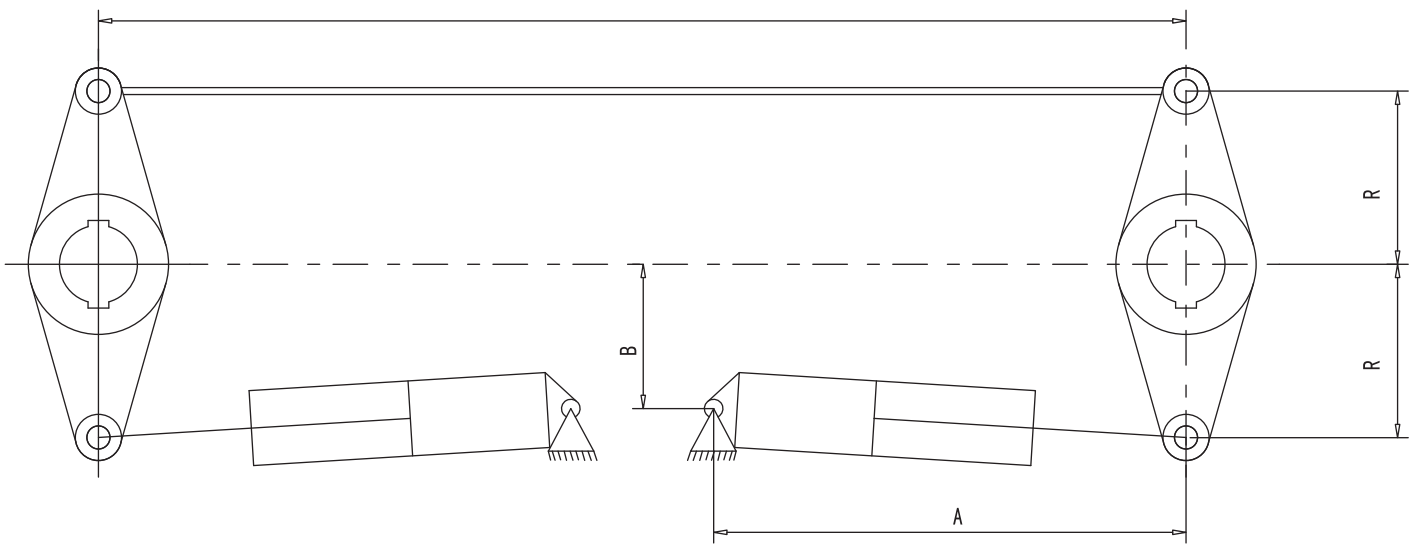
型 号 Type		6.3	10	16	20	25	30	40	50	63	75	100	125	160	
公称扭矩 Torque at maximum working oil pressure	kN.m	6.3	10	16	20	25	30	40	50	63	75	100	125	160	
转舵速度 Rudder turning speed	deg./sec.	65/12													
舵杆直径 Diameter of ram	mm	60	110	120	130	135	150	160	170	175	210	230	250	270	
舵柄半径 Normal tiller radius	mm	230		300					480		520		600		
工作压力 Maximum working oil pressure	MPa	6.2	6.5	7.5	9.1	10.9	8	10.3	12.5	8.4	11.1	14.7	11.8	15	
设计压力 Safety valve pressure (Design pressure)	MPa	7.8	8.1	9	10.9	13.2	9.6	12.4	15.7	10.5	13.9	18.4	14.8	18.5	
电动机 Electric Motor	功率 Output	kW	1.5	2.2	3		5.5	7.5		11		15	18.5	22	
	转速 Revolution	rpm	同步转速 1500r/min 4极 1500 (synchronous speed)												
蓄能器 Accumulator	容 积 Cubage	L	80		180										
直流电机 Direct current Motor	功 率 Output	kW				3		5.5	7.5		10		13	17	22
尺 寸 Dimensions	A	852	852	820	820	820	980	980	1336	1336	1382	1382	1453	1453	
	B	200	200	250	250	250	200	200	300	300	325	325	350	350	
	R	230	230	300	300	300	300	300	480	480	520	520	600	600	

★注：上表中的液压舵机的正常转舵角为 $\pm 35^\circ$ ，电源频率50Hz。
如需特殊要求的液压舵机，请与我们联系，沟通。

★ Note: The above list is complied for rudder turning angle $\pm 35^\circ$ deg.and electric source of 50Hz.
Steering gear for special particulars are available with us high workmanship design.



Specification & Dimension 适用于 FOR **DYB-6.3 ~ 250-20-2**



■ 可以提供此说明范围外的液压舵机 Out of scope of Supply

说明 Specification (DYB-***-20-2)

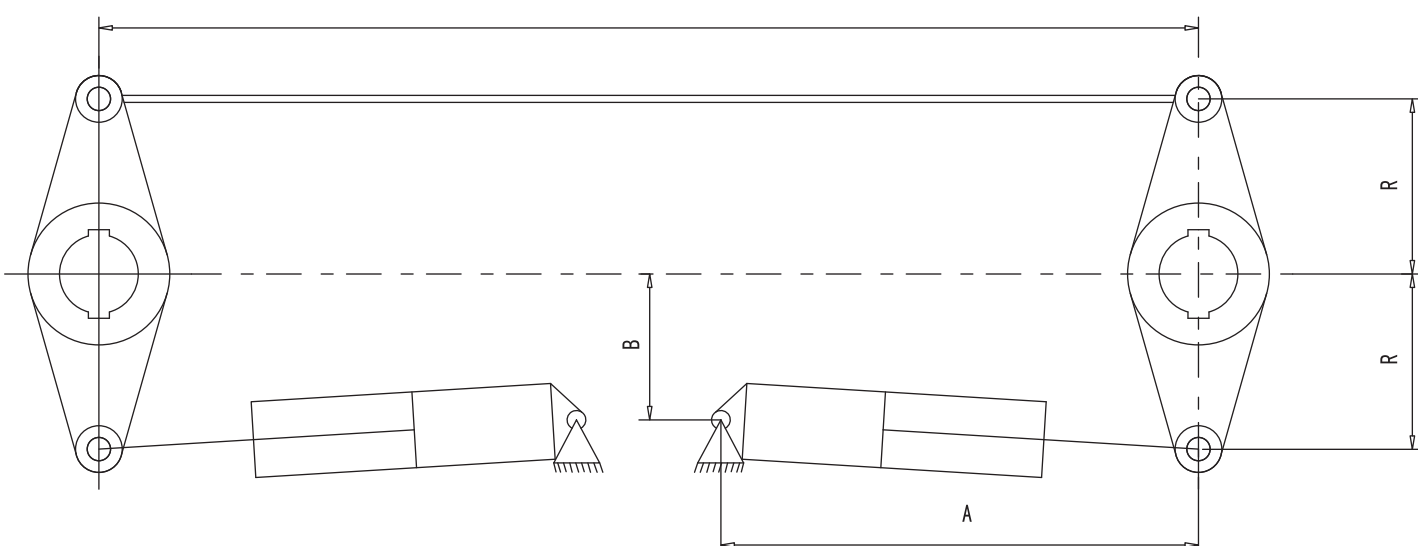
型 号 Type		6.3	10	16	20	25	30	40	50	63	75	100	125	160	200	250			
公称扭矩 Torque at maximum working oil pressure	kN.m	6.3	10	16	20	25	30	40	50	63	75	100	125	160	200	250			
转 舵 速 度 Rudder turning speed	deg./sec.	65/20																	
舵 杆 直 径 Diameter of ram	mm	60	110	120	130	135	150	160	170	175	210	230	250	270	290	300			
舵 柄 半 径 Normal tiller radius	mm	230		300					480		520		600		650	725			
工 作 压 力 Maximum working oil pressure	MPa	6.2	6.5	7.5	9.1	10.9	8	10.3	12.5	8.4	11.1	14.7	11.8	15	12.4	15.5			
设 计 压 力 Safety valve pressure (Design pressure)	MPa	7.8	8.1	9	10.9	13.2	9.6	12.4	15.7	10.5	13.9	18.4	14.8	18.5	15.5	19.4			
电动机 Electric Motor	功 率 Output	kW	1.1		2.2		3		4		5.5		7.5		11		15	18.5	22
	转 速 Revolution	rpm	同步转速 1500r/min					4极		1500（synchronous speed）									
尺 寸 Dimensions		A	852	852	820	820	820	980	980	1336	1336	1382	1382	1453	1453	1703	1830		
		B	200	200	250	250	250	200	200	300	300	325	325	350	350	3320	3320		
		R	230	230	300	300	300	300	300	480	480	520	520	600	600	650	725		

★注：上表中的液压舵机的正常转舵角为 $\pm 35^{\circ}$ deg, 电源频率50Hz。
如需特殊要求的液压舵机，请与我们工程师联系，沟通。

★ Note: The above list is complied for rudder turning angle $\pm 35^{\circ}$ deg.and electric source of 50Hz.
Steering gear for special particulars are available with us high workmanship design.



Specification & Dimension 适用于 FOR **DYB-6.3 ~ 250-28-2**



■ 可以提供此说明范围外的液压舵机 Out of scope of Supply

说明 Specification (DYB-***-28-2)

型 号 Type		6.3	10	16	20	25	30	40	50	63	75	100	125	160	200	250	
公称扭矩 Torque at maximum working oil pressure	kN.m	6.3	10	16	20	25	30	40	50	63	75	100	125	160	200	250	
转舵速度 Rudder turning speed	deg./sec.	65/28															
舵杆直径 Diameter of ram	mm	60	110	120	130	135	150	160	170	175	210	230	250	270	290	300	
舵柄半径 Normal tiller radius	mm	230		300			360		480		520		600		650	725	
工作压力 Maximum working oil pressure	MPa	6.2	6.5	7.5	9.1	10.9	6.9	8.8	12.5	8.4	11.1	14.7	11.8	15	12.4	15.5	
设计压力 Safety valve pressure (Design pressure)	MPa	7.8	8.1	9	10.9	13.2	8.3	10.6	15.7	10.5	13.9	18.4	14.8	18.5	15.5	19.4	
电动机 Electric Motor	功 率 Output	kW	0.75	1.1		2.2		3		4		5.5	7.5		11	15	18.5
	转 速 Revolution	rpm	同步转速 1500r/min 4极 1500 (synchronous speed)														
尺 寸 Dimensions	A	852	852	820	820	820	1130	1130	1336	1336	1382	1382	1453	1453	1703	1830	
	B	200	200	250	250	250	300	300	300	300	325	325	350	350	3320	3320	
	R	230	230	300	300	300	360	360	480	480	520	520	600	600	650	725	

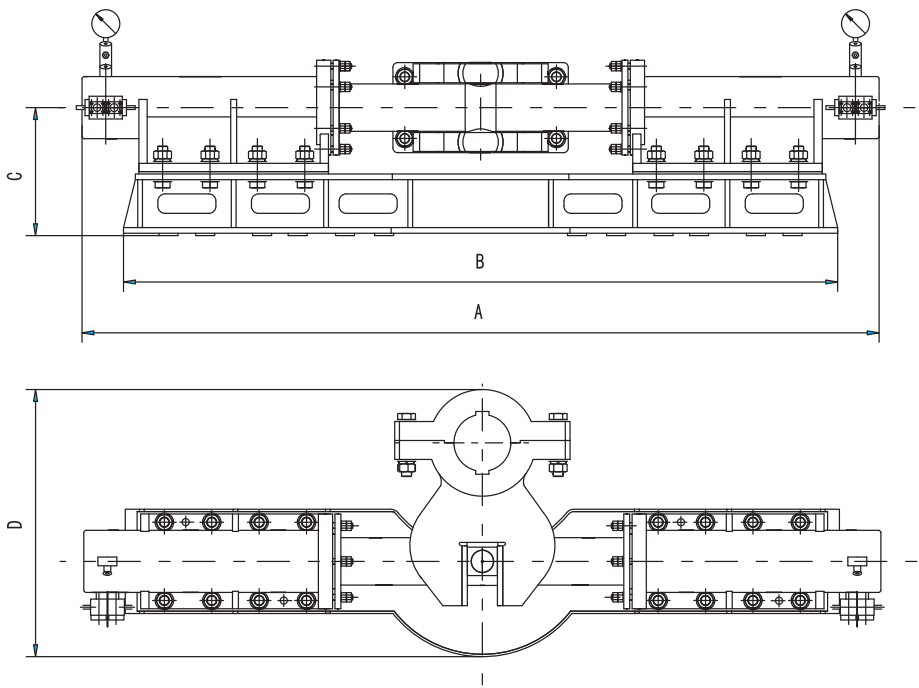
★注：上表中的液压舵机的正常转舵角为 $\pm 35^{\circ}$ deg, 电源频率50Hz。
如需特殊要求的液压舵机，请与我们工程师联系，沟通。

★ Note: The above list is complied for rudder turning angle $\pm 35^{\circ}$ deg.and electric source of 50Hz.
Steering gear for special particulars are available with us high workmanship design.



拨叉式液压舵机(单舵型)
Fork Hydraulic steering (single rudder)

Specification & Dimension 适用于 FOR **DYA-30 ~ 250-12**



■可以提供此说明范围外的液压舵机 Out of scope of Supply

说明 Specification (DYA-***-12)

型 号 Type		30	40	50	63	75	100	125	160	200	250	
公 称 扭 矩 Torque at maximum working oil pressure		kN.m	30	40	50	63	75	100	125	160	200	250
转 舵 速 度 Rudder turning speed		deg/sec.	65/12									
舵 杆 直 径 Diameter of ram		mm	150	170	175		200		240			
舵 柄 半 径 Normal tiller radius		mm	220	240	300		350		450		500	
工 作 压 力 Maximum working oil pressure		MPa	8	9.4	9.2	11.3	8.9	11.5	11.7	14.4	12.2	14.9
设 计 压 力 Safety valve pressure (Design pressure)		MPa	10	11.8	11.5	14.1	11.2	14.3	14.6	18	15.3	18.6
电动机 Electric Motor	功 率 Output	kW	4	5.5		7.5		11	15		18.5	22
	转 速 Revolution	rpm	同步转速 1500r/min 4极									
直流电机 Direct current Motor	功 率 Output	kW	4	5.5		7.5		10	13		17	22
	转 速 Revolution	rpm	1500r/min 1500 (synchronous speed)									
尺 寸 Dimensions		A	1460	1900	2240	2240	2628	2628	2956	2956	3400	3400
		B	1780	1660	2050	2050	2459	2459	2790	2790	3050	3050
		C	360	330	360	360	380	380	400	400	480	480
		D	650	650	720	720	810	810	1045	1045	1130	1130

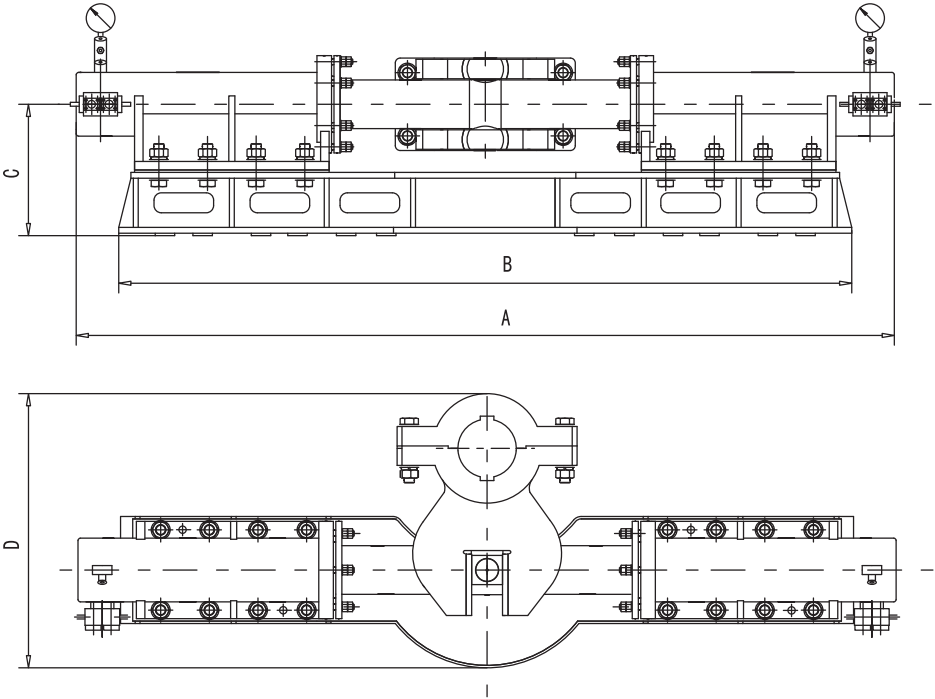
★注：上表中的液压舵机的正常转舵角为±35deg，电源频率50Hz。如需特殊要求的液压舵机，请与我们工程师联系，沟通。

★ Note: The above list is compiled for rudder turning angle ±35 deg,and electric source of 50Hz. Steering gear for special particulars are available with us high workmanship design.



拨叉式液压舵机(单舵型)
Fork Hydraulic steering (single rudder)

Specification & Dimension 适用于 FOR **DYA-30 ~ 600-20**



■可以提供此说明范围外的液压舵机 Out of scope of Supply

说明 Specification (DYA-***-20)

型 号 Type		30	40	50	63	75	100	125	160	200	250	320	360	400	500	600
公称扭矩 Torque at maximum working oil pressure	kN.m	30	40	50	63	75	100	125	160	200	250	320	360	400	500	600
转舵速度 Rudder turning speed	deg/sec.	65/20														
舵杆直径 Diameter of ram	mm	150	170	175		200		240				275	350	360	400	
舵柄半径 Normal tiller radius	mm	220	240	300		350		450		500		570	500		600	
工作压力 Maximum working oil pressure	MPa	8	9.4	9.2	11.3	8.9	11.5	11.7	14.4	12.2	14.9	12.8	15.4	17	17.5	18.5
设计压力 Safety valve pressure (Design pressure)	MPa	10	11.8	11.5	14.1	11.2	14.3	14.6	18	15.3	18.6	16	19.3	21.3	23	24.5
电动机 Electric Motor	功 率 Output	kW	2.2	3	4		5.5	7.5	11		15	18.5	22	30		
	转 速 Revolution	rpm	同步转速 1500r/min 4极 1500 (synchronous speed)													
尺 寸 Dimensions	A	1460	1900	2240	2240	2628	2628	2956	2956	3400	3400	3918	3660	3660	4000	4000
	B	1780	1660	2050	2050	2459	2459	2790	2790	3050	3050	3570	3320	3320	3750	3750
	C	360	330	360	360	380	380	400	400	480	480	560	580	580	580	580
	D	650	650	720	720	810	810	1045	1045	1130	1130	1305	1545	1545	1650	1650

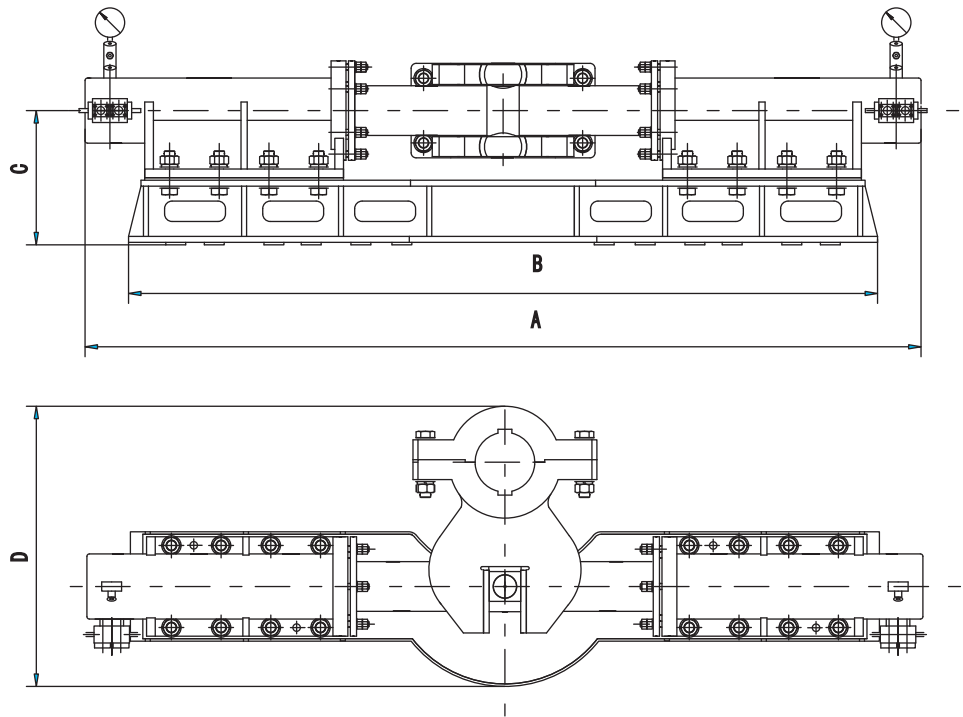
★注：上表中的液压舵机的正常转舵角为±35deg，电源频率50Hz。如需特殊要求的液压舵机，请与我们工程师联系，沟通。

★ Note: The above list is compiled for rudder turning angle ±35 deg,and electric source of 50Hz. Steering gear for special particulars are available with us high workmanship design.



拨叉式液压舵机(单舵型)
Fork Hydraulic steering (single rudder)

Specification & Dimension 适用于 FOR **DYA-30 ~ 600-28**



■ 可以提供此说明范围外的液压舵机 Out of scope of Supply

说明 Specification (DYA-***-28)

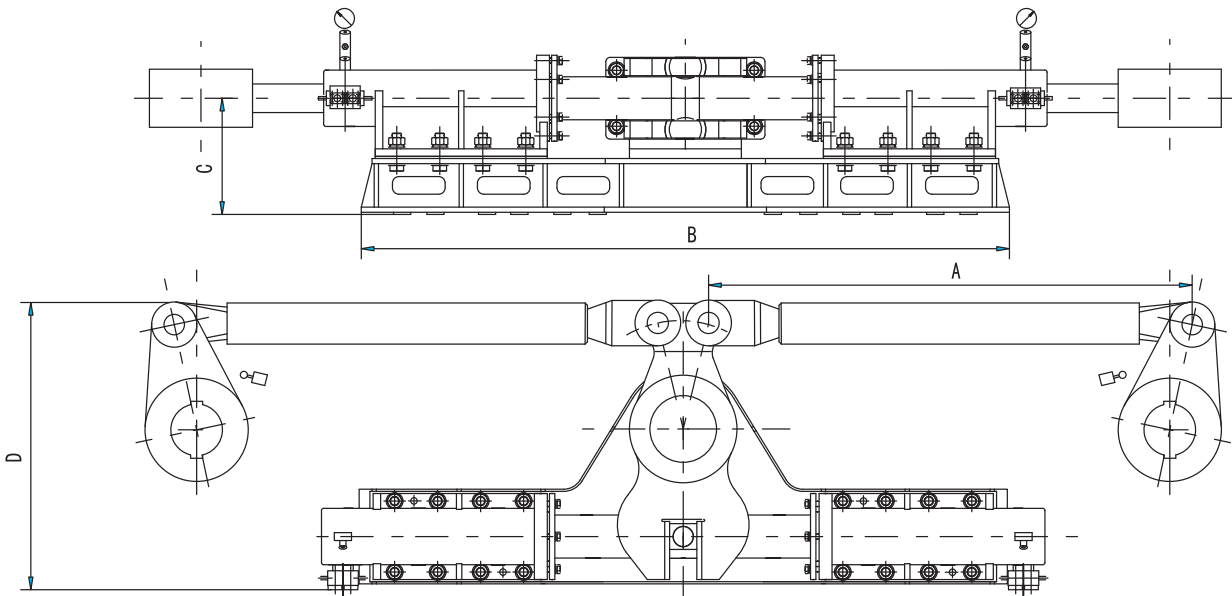
型 号 Type		30	40	50	63	75	100	125	160	200	250	320	360	400	500	600	
公称扭矩 Torque at maximum working oil pressure	kN.m	30	40	50	63	75	100	125	160	200	250	320	360	400	500	600	
转 舵 速 度 Rudder turning speed	deg/sec.	65/28															
舵 杆 直 径 Diameter of ram	mm	150	170	175		200		240			275	350	360	400			
舵 柄 半 径 Normal tiller radius	mm	220	240	300		350		450		500		570	500		600		
工 作 压 力 Maximum working oil pressure	MPa	8	9.4	9.2	11.3	8.9	11.5	11.7	14.4	12.2	14.9	12.8	15.4	17	17.5	18.5	
设 计 压 力 Safety valve pressure (Design pressure)	MPa	10	11.8	11.5	14.1	11.2	14.3	14.6	18	15.3	18.6	16	19.3	21.3	23	24.5	
电动机 Electric Motor	功 率 Output	kW	1.5	2.2	3		4	5.5	7.5		11	15	18.5	22	30	37	45
	转 速 Revolution	rpm	同步转速 1500r/min 4极 1500 (synchronous speed)														
尺 寸 Dimensions	A	1460	1900	2240	2240	2628	2628	2956	2956	3400	3400	3918	3660	3660	4000	4000	
	B	1780	1660	2050	2050	2459	2459	2790	2790	3050	3050	3570	3320	3320	3750	3750	
	C	360	330	360	360	380	380	400	400	480	480	560	580	580	580	580	
	D	650	650	720	720	810	810	1045	1045	1130	1130	1305	1545	1545	1650	1650	

★注：上表中的液压舵机的正常转舵角为 $\pm 35^{\circ}$ deg，电源频率50Hz。
如需特殊要求的液压舵机，请与我们工程师联系，沟通。



拨叉式液压舵机(双舵型)
Fork Hydraulic steering (double rudders)

Specification & Dimension 适用于 FOR **DYA-30 ~ 250-12-2**



■ 可以提供此说明范围外的液压舵机 Out of scope of Supply

说明 Specification (DYA-***-12-2)

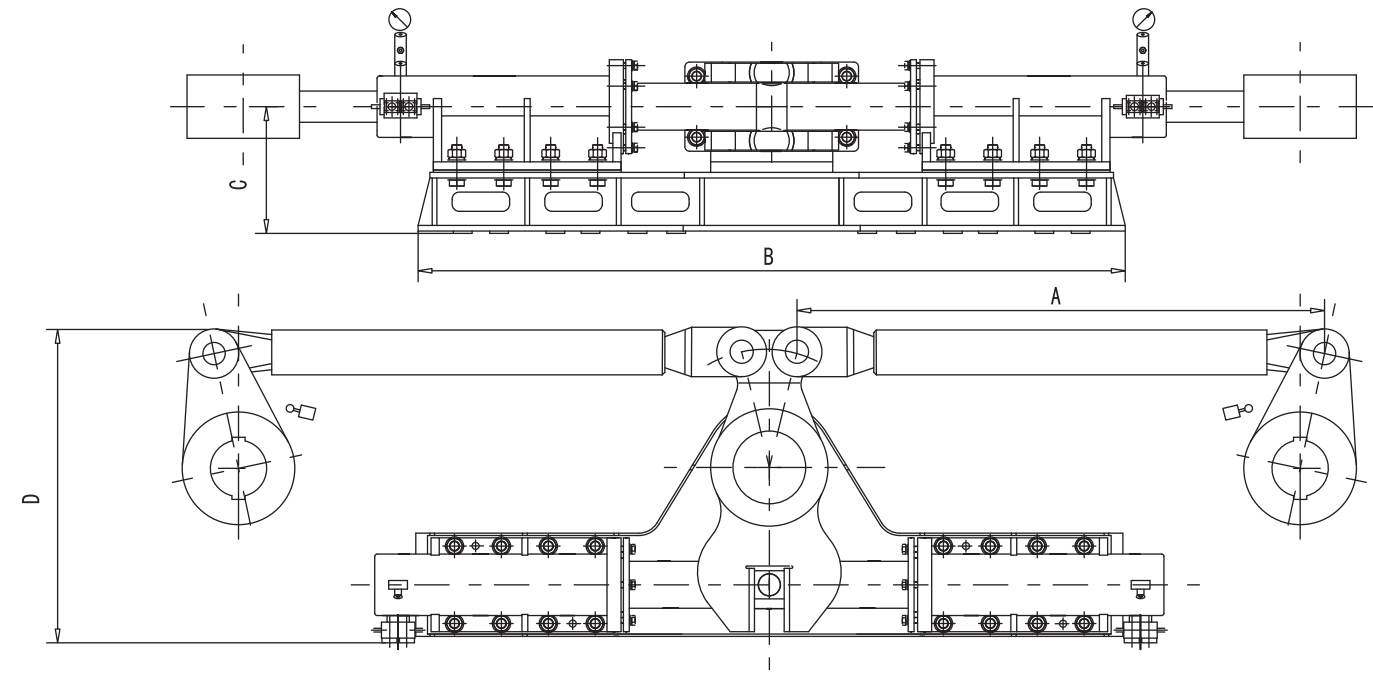
型 号 Type		30	40	50	63	75	100	125	160	200	250	
公称扭矩 Torque at maximum working oil pressure	kN.m	30	40	50	63	75	100	125	160	200	250	
转舵速度 Rudder turning speed	deg/sec.	65/12										
舵杆直径 Diameter of ram	mm	150	170	175		200		240				
边舵半径 Side tiller radius	mm	220	240	350			450			500		
舵柄半径 Normal tiller radius	mm	220	240	300		350		450		500		
工作压力 Maximum working oil pressure	MPa	8	9.4	9.2	11.3	8.9	11.5	11.7	14.4	12.2	14.9	
设计压力 Safety valve pressure (Design pressure)	MPa	10	11.8	11.5	14.1	11.2	14.3	14.6	18	15.3	18.6	
电动机 Electric Motor	功率 Output	kW	4	5.5		7.5		11	15		18.5	22
	转速 Revolution	rpm	同步转速 1500r/min 4极 1500 (synchronous speed)									
直流电机 Direct current Motor	功率 Output	kW	4	5.5		7.5		10	13		17	22
	转速 Revolution	rpm	1500r/min									
尺 寸 Dimensions	A	3900	4800	3500	3500	5500	5500	5000	5000	5500	5500	
	B	1780	1660	2050	2050	2459	2459	2790	2790	3050	3050	
	C	360	330	360	360	380	380	400	400	480	480	
	D	650	750	950	950	1100	1100	1220	1220	1300	1300	

★注：上表中的液压舵机的正常转舵角为 $\pm 35^{\circ}$ deg，电源频率50Hz。
如需特殊要求的液压舵机，请与我们工程师联系，沟通。



拨叉式液压舵机(双舵型)
Fork Hydraulic steering (double rudders)

Specification & Dimension 适用于 FOR **DYA-30 ~ 600-20-2**



■ 可以提供此说明范围外的液压舵机 Out of scope of Supply

说明 Specification (DYA-***-20-2)

型 号 Type		30	40	50	63	75	100	125	160	200	250	320	360	400	500	600	
公 称 扭 矩 Torque at maximum working oil pressure		kN.m	30	40	50	63	75	100	125	160	200	250	320	360	400	500	600
转 舵 速 度 Rudder turning speed		deg/sec.	65/20														
舵 杆 直 径 Diameter of ram		mm	150	170	175		200		240			275		350	360	400	
边 舵 半 径 Side tiller radius		mm	220	300	350		450			500		600	650		700		
舵 柄 半 径 Normal tiller radius		mm	220	240	300		350		450		500		570	500		600	
工 作 压 力 Maximum working oil pressure		MPa	8	9.4	9.2	11.3	8.9	11.5	11.7	14.4	12.2	14.9	12.8	15.4	17	17.5	18.5
设 计 压 力 Safety valve pressure (Design pressure)		MPa	10	11.8	11.5	14.1	11.2	14.3	14.6	18	15.3	18.6	16	19.3	21.3	23	24.5
电动机 Electric Motor	功 率 Output	kW	2.2	3	4		5.5	7.5	11		15	18.5	22	30			
	转 速 Revolution	rpm	同步转速 1500r/min 4极 1500 (synchronous speed)														
尺 寸 Dimensions		A	3900	4800	3500	3500	5500	5500	5000	5000	5500	5500	6500	7000	7000	7500	7500
		B	1780	1660	2050	2050	2459	2459	2790	2790	3050	3050	3570	3320	3320	3750	3750
		C	360	330	360	360	380	380	400	400	480	480	560	580	580	580	580
		D	650	750	950	950	1100	1100	1220	1220	1300	1300	1305	1545	1545	1650	1650

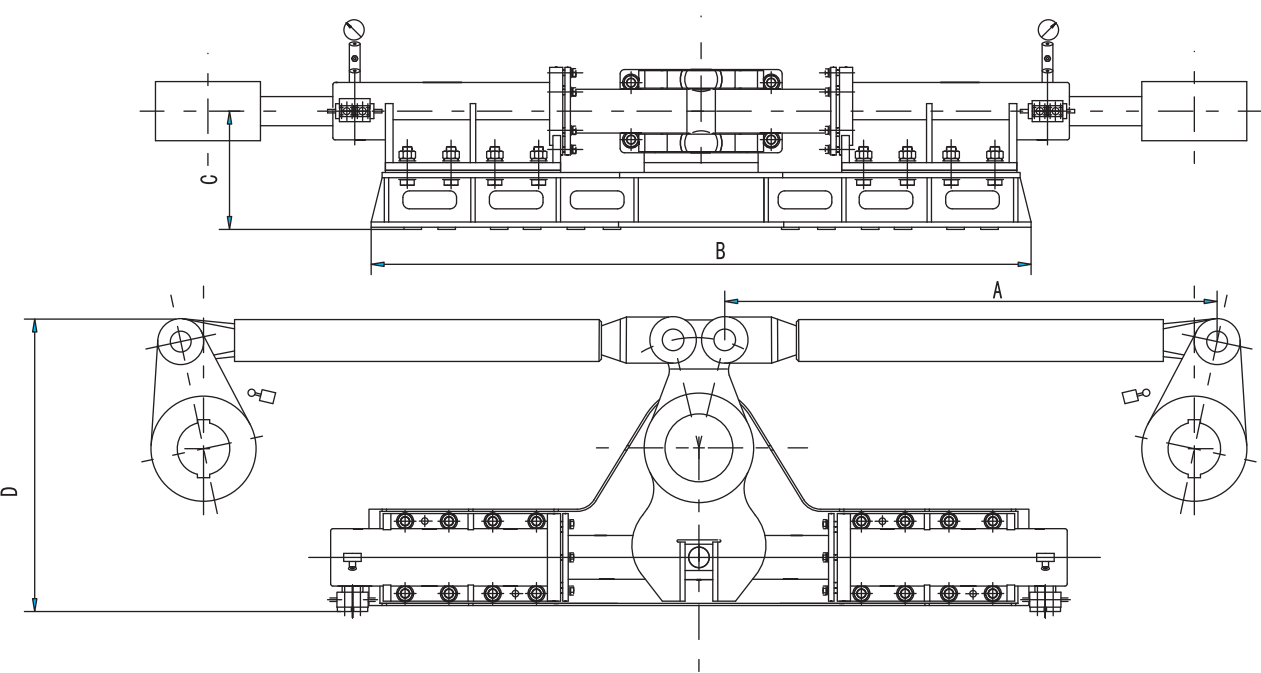
★注：上表中的液压舵机的正常转舵角为 $\pm 35^{\circ}$ deg，电源频率50Hz。
如需特殊要求的液压舵机，请与我们工程师联系，沟通。

★ Note: The above list is complied for rudder turning angle $\pm 35^{\circ}$ deg, and electric source of 50Hz.
Steering gear for special particulars are available with us high workmanship design.



拨叉式液压舵机(双舵型)
Fork Hydraulic steering (double rudders)

Specification & Dimension 适用于 FOR **DYA-30 ~ 600-28-2**



■ 可以提供此说明范围外的液压舵机 Out of scope of Supply

说明 Specification (DYA-***-28-2)

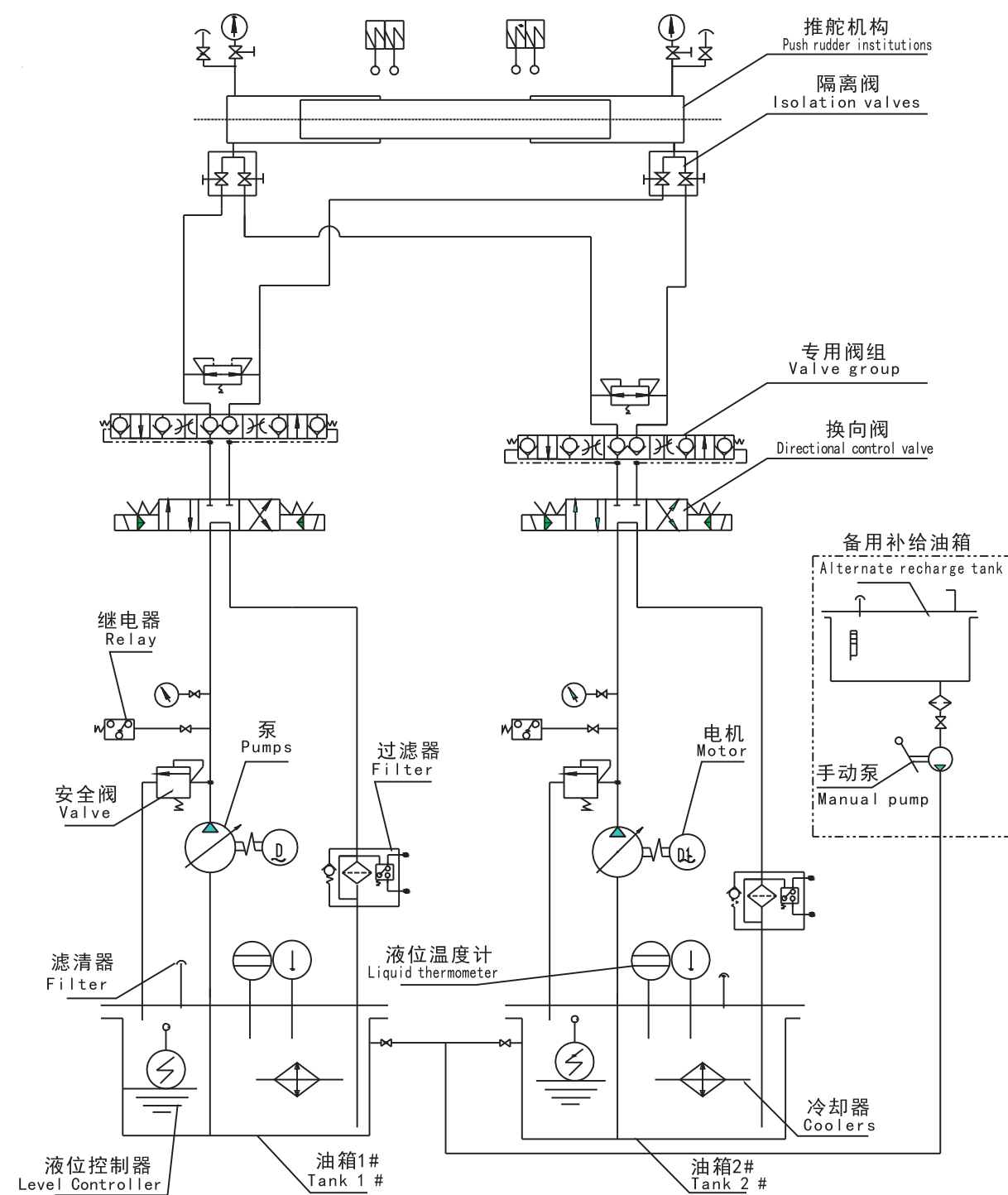
型 号 Type		30	40	50	63	75	100	125	160	200	250	320	360	400	500	600	
公 称 扭 矩 Torque at maximum working oil pressure		kN.m	30	40	50	63	75	100	125	160	200	250	320	360	400	500	600
转 舵 速 度 Rudder turning speed		deg./sec.	65/28														
舵 杆 直 径 Diameter of ram		mm	150	170	175		200		240			275	350	360	400		
边 舵 半 径 Side tiller radius		mm	220	300	350		450			500		600	650		700		
舵 柄 半 径 Normal tiller radius		mm	220	240	300		350		450		500		570	500		600	
工 作 压 力 Maximum working oil pressure		MPa	8	9.4	9.2	11.3	8.9	11.5	11.7	14.4	12.2	14.9	12.8	15.4	17	17.5	18.5
设 计 压 力 Safety valve pressure (Design pressure)		MPa	10	11.8	11.5	14.1	11.2	14.3	14.6	18	15.3	18.6	16	19.3	21.3	23	24.5
电动机 Electric Motor	功 率 Output	kW	1.5	2.2	3		4	5.5	7.5		11	15	18.5	22	30	37	45
	转 速 Revolution	rpm	同步转速 1500r/min 4极 1500 (synchronous speed)														
尺 寸 Dimensions		A	3900	4800	3500	3500	5500	5500	5000	5000	5500	5500	6500	7000	7000	7500	7500
		B	1780	1660	2050	2050	2459	2459	2790	2790	3050	3050	3570	3320	3320	3750	3750
		C	360	330	360	360	380	380	400	400	480	480	560	580	580	580	580
		D	650	750	950	950	1100	1100	1220	1220	1300	1300	1305	1545	1545	1650	1650

★注：上表中的液压舵机的正常转舵角为 $\pm 35^{\circ}$ deg，电源频率50Hz。
如需特殊要求的液压舵机，请与我们工程师联系，沟通。

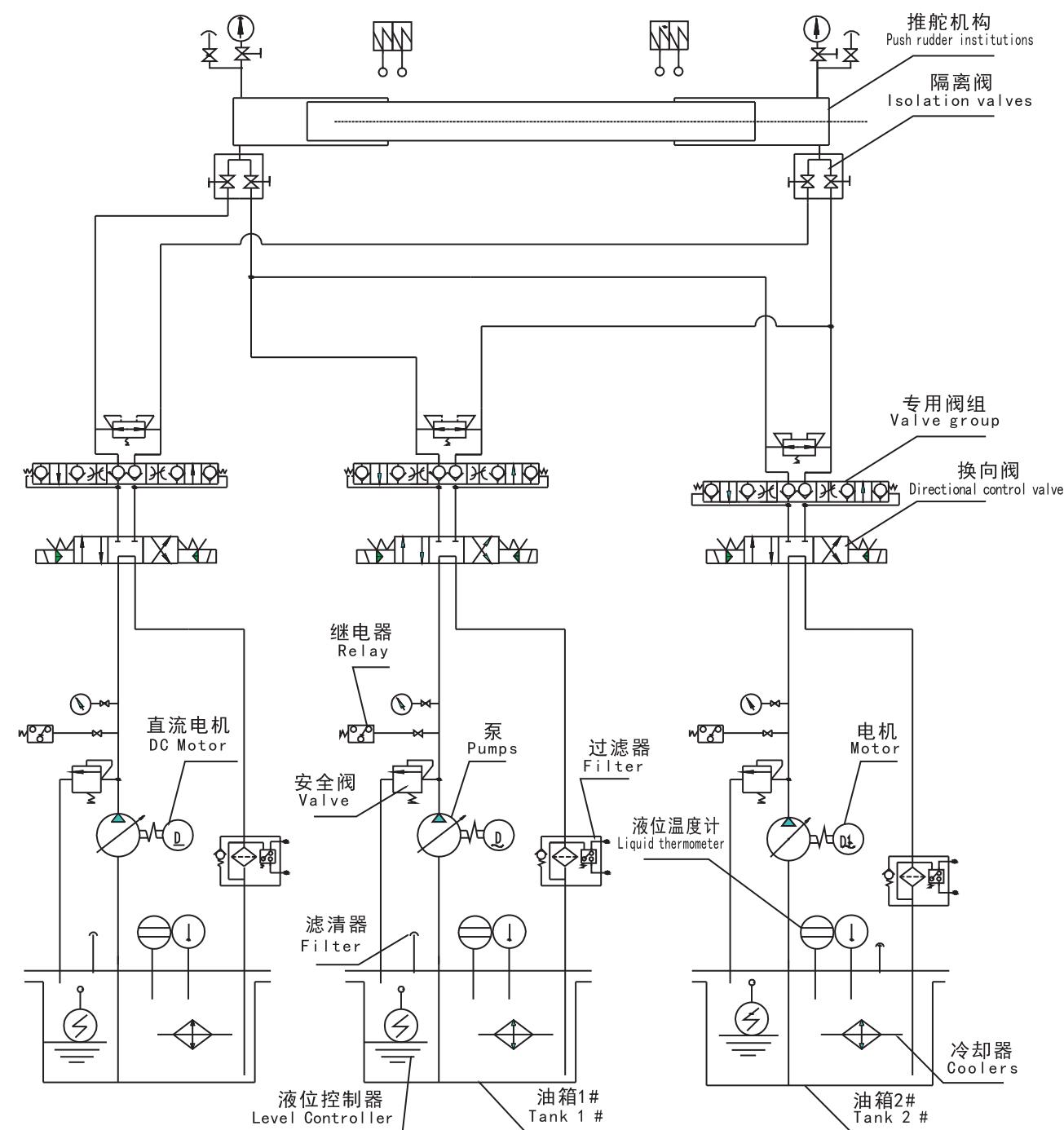
★ Note: The above list is complied for rudder turning angle $\pm 35^{\circ}$ deg, and electric source of 50Hz.
Steering gear for special particulars are available with us high workmanship design.



适用于海船28s, 内河20s
Apply to ships 28s, river 20s



适用于内河12s
Applies to inland 12s





故障现象	原 因	排除方法
1. 机组启动后油泵不排油，系统无压力	电动机反向运转 吸油管堵塞或漏气油箱油位过低 背压阀压力调得太低	调整电动机接线 检修吸油管，按规定加油 调整至规定值
2. 操舵时舵机不动作	电磁铁不动作 电磁阀方向装反了 电磁阀阀芯卡死 高压溢流阀压力调得太低 旁通阀开着或关不死 高压溢流阀失灵 双联截止阀关着 油泵漏泄严重	检修或更换电磁铁 重新安置 检修或更换 调整至规定值 调整至规定值 清洗或更换重新配磁 清洗或更换 打开该阀 检修或更换
3. 油泵与联轴器温度过高，系统油温过高	连接情况不良 油液粘度过高，油太脏 油泵效率太低 推舵油缸密封圈压得太紧 油箱油面太高 环境温度过高 油箱表面太脏，影响散热 截止阀没有全部打开 背压阀压力调得过高 系统中压力过高	检查和调整电动机与油泵的连接情况，保持同心 更换清洗的油液 更换油泵 适当放松 按规定加油 改善环境温度或采取降温措施 保持油箱外表清洁 将截阀全部打开 重新调整至规定值 重新调整，销轴与衬套间隙 符合规定值
4. 系统中发出严重噪声	油箱内油量不足 吸油管接头漏气 油泵质量低劣 电液阀阀芯动作不灵活 电液阀弹簧疲劳或损坏 油路中有脏物或液油不畅 油液太脏 油液粘度太大 电液阀阀芯移动速度过快	按规定加油 拧紧或更换垫片 检修或更换 检修或更换电液阀 更换弹簧 检查清洗 更换清洗油液 更换适当油液 调节阻尼器
5. 柱塞产生爬行	系统中进入空气	检查进气的原因和部位（如各管接头阀件连接和放气阀是否关死等），并消除它



Symptoms	The reasons for	Troubleshooting methods
1. units are not starting after the oil pump, the system has no oil pressure	Motor reverse running Suction tubing clogging or leakage of the fuel tank low oil level Back pressure valve pressure too low	Adjusting the motor wiring Maintenance suction tubing, refueling Adjustment to the specified value
2. the Steering action when the servos to not	Electromagnet not action Solenoid valve direction mounted reverse The death of electromagnetic valve card High pressure relief valve with pressure too low By-pass valve is open or closed undead High pressure relief valve failure Twin valves closed Oil pump leak to serious	Maintenance or replacement of an electromagnet Relocation Maintenance or replacement Adjustment to the specified value Adjustment to the specified value Clean or replace magnetic blending again Clean or replace Open the trap is Maintenance or replacement
3. the oil pump and coupling temperature is too high, System excessive oil	Connectivity adverse Oil viscosity too high, oil too dirty Oil pump efficiency is too low Push rudder pressure cylinder seals—too tight Tank oil level is too high The ambient temperature is too high Tank surface too dirty, the effects of heat dissipation Not all of the open valves Back pressure valve pressure too high System pressure too high	Check and adjust the connection to the motor and pump keeps concentric Replacement cleaning of oil Replace the pump Appropriate to relax According to regulations refueling Improve the environmental temperature or take cooling measures Keep the fuel tank clean appearance Will be truncated valve all open Resize to the specified value Resize, PIN and bushings gap Consistent with the specified value
4. the issue of serious noise in the system	Tank oil quantity shortage Air leakage suction pipe Pump the inferior quality Electro-hydraulic valve action is not flexible Electro-hydraulic valve spring fatigue, or damaged There is no dust or in the pipeline of liquid oil poorly Oil too dirty Oil viscosity is too large Electro-hydraulic valve move too fast	According to regulations refueling Tighten or replace the gasket Maintenance or replacement Maintenance or replacement of electro-hydraulic valve Replacement Springs Check washing Replacement cleaning fluids Replace the appropriate oil Adjust the damper
5. the plunger produce crawling	System into the air	Check the intake of reason and parts (such as the various pipe joint fillers connection is closed and bleed to death, etc.), and to eliminate it

型号 Type	安全负 载 Safety Load (kN)	最大工 作半径 Max Working Rod (m)	最小工 作半径 Min Working Rod (m)	提升速度 Hoisting Speed (m/min)	旋转速度 Slewing Speed (m/min)	变幅时间 Luffing Time (s)	提升高度 Hoisting Height (m)	回转范围 Slewing Angle (°)	允许倾斜 (众斜/横斜) Permissible Heeling (transverse/longi- tudinal)	电机型号 Motor Type	功率 Power (kW)
YQ1	10	6~12	1.6~3.3	15	1	60	30	360°	2° /~5°	YH132M-4	7.5
YQ1.5	15	8~14	2.2~3.7	15	1	60	30	360°	2° /~5°	YH160M-4	11
YQ2	20	5~15	1.4~4.0	15	1	60	30	360°	2° /~5°	YH160L-4	15
YQ3	30	8~18	2.2~4.8	15	0.9	70	30	360°	2° /~5°	YH180L-4	22
YQ5	50	12~20	3.3~5.3	15	0.75	80	30	360°	2° /~5°	YH225S-4	37
YQ8	80	12~20	3.3~5.3	15	0.75	100	40	360°	2° /~5°	YH225M-4	55
YQ10	100	12~20	3.3~5.3	15	0.75	110	40	360°	2° /~5°	YH280S-4	75
YQ15	150	12~20	3.3~5.3	15	0.6	110	50	360°	2° /~5°	YH280M-4	90
YQ20	200	15~25	4~5.6	15	0.6	120	50	360°	2° /~5°	YH280S-4	75*2
YQ25	250	15~30	4~7.9	15	0.5	130	50	360°	2° /~5°	YH280M-4	90*2
YQ30	300	15~30	4~7.9	15	0.4	140	60	360°	2° /~5°	YH280M-4	90*2

■ 可以提供此说明范围外的产品Out of scope of supoly



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4



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13



14

- 1、办公室Office
- 2、数控等离子火焰下料机Numerical control plasma flame blanking machine
- 3、滚齿机Hobbing machine
- 4、龙门刨床 planing machine
- 5、立式车床Vertical lathe
- 6、卧式镗床Horizontal boring machine
- 7、管路投油机Pipeline Serial connection cleaning machine

- 8、锚机试验塔The windlass test tower
- 9、舵机试验台The steering gear test rig
- 10、数显万能拉伸试验机Digital display universal tensile test machine
- 11、冲击试验机Impact test machine
- 12、超声波探伤仪Ultrasonic flaw detector
- 13、时效振动器Aging vibrator
- 14、里氏硬度器Richter hardness tester

