

引进 创新 超越
IMPORTING INNOVATION EXCELLING

宁波威克斯液压有限公司
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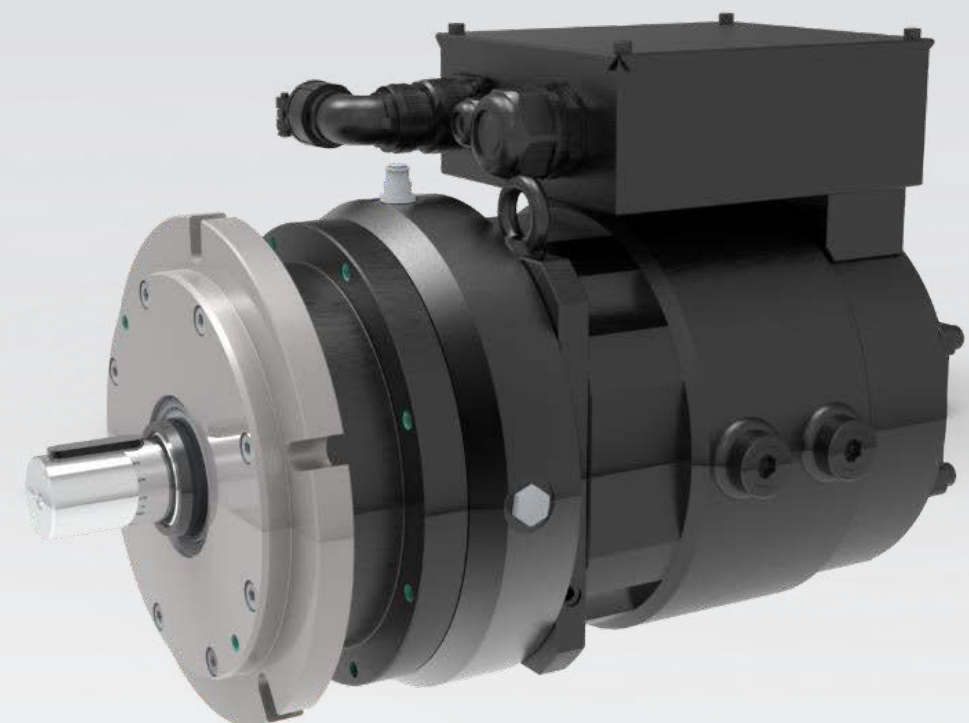


NINGBO VICKS HYDRAULIC CO.,LTD.

宁波威克斯液压有限公司

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行星减速机熔胶传动系统节能方案
Planetary Reducer Integrated Energy-Saving Solution





工厂实景/Factory Live-action

关于我们

宁波威克斯液压有限公司是上市公司鲍斯股份（股份代码：300441）控股子公司，创始于2007年，是一家拥有多项发明专利的国家高新技术企业，现有10条世界领先的液压泵生产检测流水线。年产液压泵15万多台，节能伺服系统1万多套，提供节能电储料成套解决方案（直驱驱控一体机、行星伺服一体机、齿轮箱伺服一体机）。

公司是叶片泵行业新标准修订主持单位，工信部专精特新“小巨人”企业；荣获中国液气密行业技术进步二等奖、区长质量奖和国家创新基金项目支持。

公司拥有VG系列超高压内啮合齿轮泵最高压力40Mpa、最高转速4000r/min，排量范围3-320ml/r，世界首创ABT系列伺服叶片泵，T6、T7、V、VQ、V10、V20、SQP、PV2R叶片泵，M3B、M4C、M4D、M4E、25/26M、35/36M、45/46M、50/51M叶片马达的核心技术，A4VSO、A10VSO31、A10VSO32、A10VO52/53、A11VO柱塞泵。产品通过中国CCS、挪威DNV、美国ABS、法国BV、英国LR、日本NKK等世界六大权威船级社认证，广泛应用在注塑橡塑、压铸、工程、船舶、农机、油压、打包、港口等机械行业。

公司是台湾台达、奥地利KEBA、菲仕电机、韵升股份、美的集团、日本住友的战略合作伙伴。

公司坚持引进、创新、超越的发展之路和优质、高效、低耗、安全的经营理念，致力于打造世界著名的液压泵制造商及伺服节能成套解决方案专家，为装备升级造“中国心脏”。

公司以学习、和谐、坚持、专业为企业文化的核心思想，倡导至真、至善、至美的价值观和开明开拓、和谐和乐的精神。

ABOUT US

Ningbo Vicks Hydraulic Co., Ltd. is a holding subsidiary of the listed company Baosi Stock (stock code: 300441). It is founded in 2007. It is a national high-tech enterprise with a number of invention patents. There are 10 world leading production and testing lines for hydraulic pumps. With an annual output of more than 150,000 pcs hydraulic pumps, more than 10,000 sets energy-saving servo system, and supply complete solutions for electric melt glue energy-saving. (Direct drive integrated machine, Planetary reducer integrated machine, Gearbox servo integrated machine).

The company is the host of the revision of the new standard of the vane pump industry, praised by the Ministry of Industry and Information Technology as the new title "Little Giant" enterprise. We won the second prize of technology progress by China Hydraulics Pneumatics & Seals Association. Also we got the district mayor's quality award and the National Innovation Fund project support.

The company has core technology of VG series high pressure internal gear pumps (Max. Pressure 40Mpa, Max. Speed 4000r/min and Discharge range 3-320ml/r), World-first ABT series servo vane pumps, T6, T7, V, VQ, V10, V20, SQP, PV2R series vane pumps and M3B, M4C, M4D, M4E, 25/26M, 35/36M, 45/46M, 50/51M series vane motors, A4VSO, A10VSO31, A10VSO32, A10VO 52/53, A11VO piston pumps. Our products are certified by the world's top six authoritative classification societies such as Chinese CCS, Norway DNV, American ABS, French BV, British LS and Japan NKK, and are widely used in injection molding, die-casting, engineering, ships, agricultural machinery, hydraulic, packaging, ports and other machinery industries.

The company is strategic partner of Taiwan DELTA, Austria KEBA, PHASE motor, Yunsheng Group, Midea Group and SUMITOMO Pump.

Ningbo Vicks adheres to the development path of introduction, innovation and transcendence, and the business philosophy of high quality, high efficiency, low power consumption and safety, and is committed to building a world-renowned hydraulic pump manufacturer and servo energy-saving complete solution expert. We want to make a "Chinese heart" for industrial equip.



办公区/Office



科研中心/Scientific Research Centre



生活区/Staff Living Area

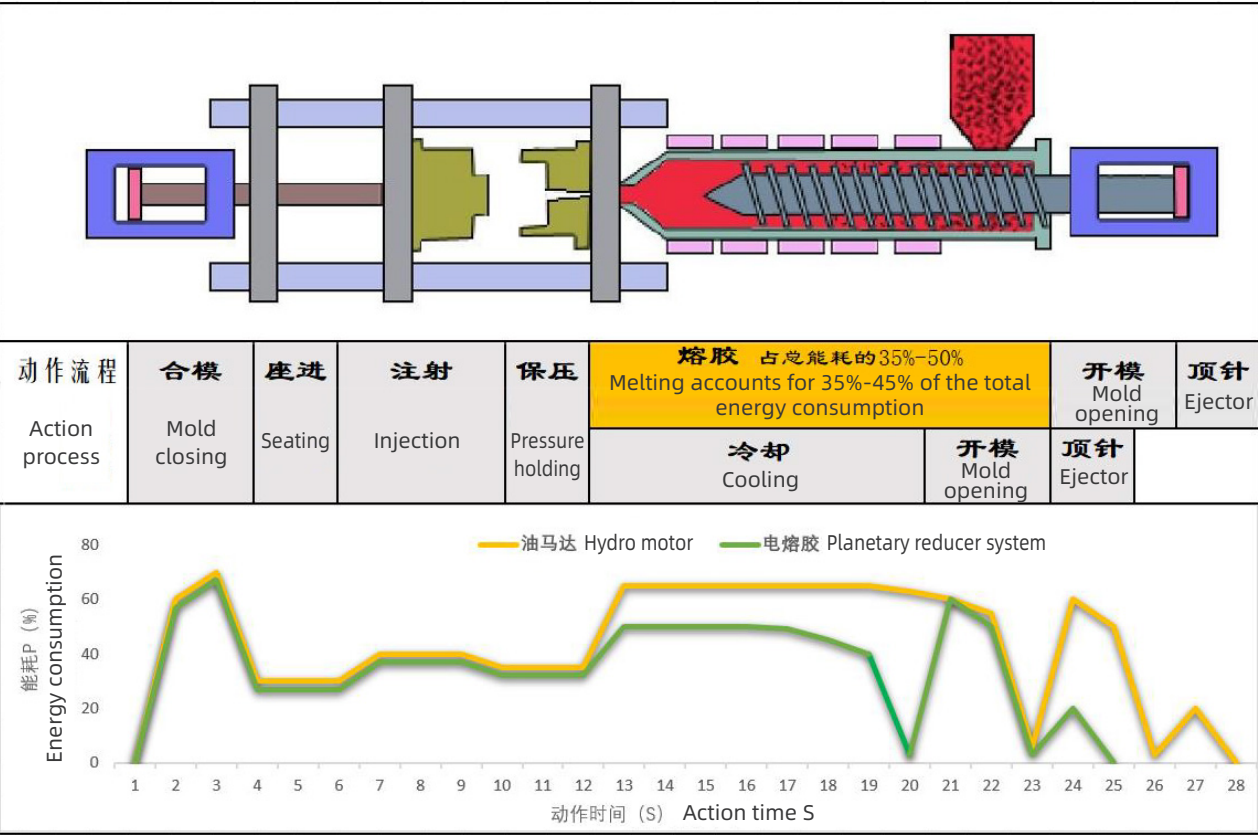


活动中心/Activity Center

一、产品特点 Product Features

注塑成型是利用塑料的热物理性质，原料在料筒内熔融和均化。均匀塑化后，经注射、流动充模、保压和冷却后成型得到注射制品。油泵和电机是注塑机动力来源，是液压传动系统的主要组成部分，电气控制系统与液压传动系统合理配合，才可实现注塑机的工艺过程要求和各种程序动作。宁波威克斯通过对注塑成型过程的研究，自主研发的行星伺服一体机熔胶传动系统节能方案，在提升动力与传动效率的同时达到降低能耗的目标。

Injection molding utilizes the thermophysical properties of plastics to melt and homogenize the raw materials in the barrel. After uniform plasticization, the injection products are obtained through injection, flow filling, pressure holding and cooling. The oil pump and motor are the power sources of the injection molding machine and the main components of the hydraulic transmission system. The electrical control system and the hydraulic transmission system are reasonably coordinated to achieve the process requirements and various program actions of the injection molding machine. Ningbo Vicks has developed a planetary reducer integrated energy-saving solution for the melt transmission system through research on the injection molding process, which achieves the goal of reducing energy consumption while improving power and transmission efficiency.



二、产品命名规则 Product naming rules

ABT-X -003 G -0 6S- 000750 - 17W

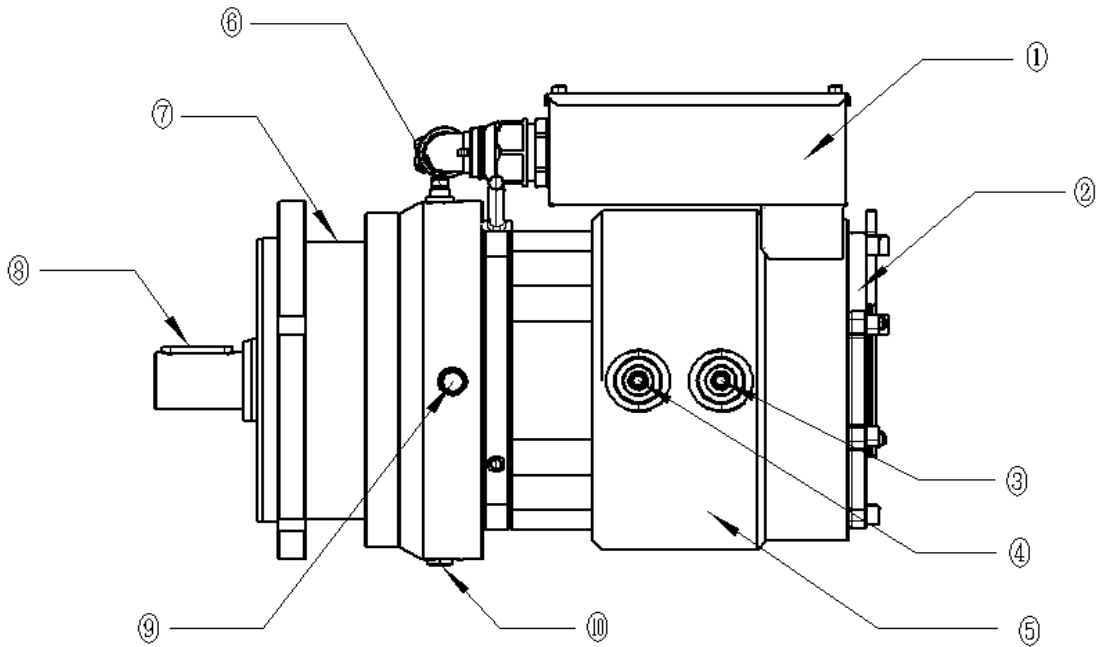
① ② ③ ④ ⑤ ⑥ ⑦

编号 No.	定义 Definition	分类 Classification
①	电熔胶产品系列 Series of electro-melting servo system	ABT-X: 行星一体机 Planetary servo integrated machine
②	减速机代号 Reducer code	003、006 等 (G代表高速) 003, 006, etc. (G represents high speed)
③	减速比 Reduction ratio	齿轮箱减速比 Gearbox reduction ratio
④	输出轴连接类型 Output shaft connection type	S: 标准花键 standard spline P: 标准平键 standard flat key X: 特殊定制键 special custom key
⑤	最大扭矩 Maximum torque	齿轮箱输出最大扭矩 Gearbox output maximum torque
⑥	电机额定转速 Motor rated speed	12: 表示电机额定转速1200 15: 表示电机额定转速1500 17: 表示电机额定转速1700 20: 表示电机额定转速2000 12: indicates motor rated speed 1200 15: indicates motor rated speed 1500 17: indicates motor rated speed 1700 20: indicates motor rated speed 2000
⑦	冷却方式 Cooling method	W: 油冷 Oil cooling F: 风冷 Air cooling

三、部件说明 Component Description

四、型号规格 Model Specifications

4.1 ABT专利行星一体机系列产品规格 Planetary Integrated servo Machine Series Specifications



规格 Terminal Box	电熔胶产品规格 (EC1系列) Electromelt Product Specifications (EC1 Series)	适应吨位 T Applicable Tonnage	最大螺杆 直径 MM Maximum Screw Diameter	最大螺杆 扭矩 Nm Maximum Screw Torque	最大输出 转速 Maximum Output Speed	齿轮箱输出 扭矩 Nm Gearbox Output Torque	驱动器额定 功率 KW Drive Rated Power	电机额定 功率 KW Motor Rated Power	电机额定 电流 A Motor Rated Current	电机最高 转速 RPM Motor Maximum Speed	总重量 KG Total Weight	齿轮箱 减速比 Gearbox Reduction Ratio	传动方式 Transmission Mode
03系列 Series	ABT-X-003-08S-000750-20W	80-160	45	649	290	750	11	10.5	15.8	2500	76.5	8.5	行星 Planetary
	ABT-X-003-08S-000750-20F	80-160	45	649	290	750	11	10.5	15.8	2500	76.5	8.5	行星 Planetary
06系列 Series	ABT-X-006-09S-001400-20W	150-250	60	1371	260	1400	18	17.2	30.6	2500	100	9.5	行星 Planetary
	ABT-X-006-09S-001400-20F	150-250	60	1371	260	1400	18	17.2	30.6	2500	100	9.5	行星 Planetary
08系列 Series	ABT-X-008-09S-002000-17W	240-320	70	2047	220	2000	22	21.4	32.2	2100	148	9.5	行星 Planetary
	ABT-X-008-09S-002000-17F	240-320	70	2047	220	2000	22	26.4	37.7	2100	137	9.5	行星 Planetary
11系列 Series	ABT-X-011-09S-003000-17W	300-400	80	2897	220	3000	30	30.3	45	2100	162	9.5	行星 Planetary
	ABT-X-011-09S-003700-17W	300-400	85	3392	220	3700	37	40.9	62	2100	162	9.5	行星 Planetary
16系列 Series	ABT-X-016-10S-004000-17W	400-500	90	3935	210	4000	45	40.9	62	2100	205.5	10	行星 Planetary
	ABT-X-016-10S-004800-17W	400-500	95	4529	210	4800	45	50.7	78.2	2100	205.5	10	行星 Planetary
31系列 Series	ABT-X-031-10S-006500-15W	500-750	105	5875	180	6500	55	70.7	137.8	1800	444.5	10	行星 Planetary
	ABT-X-031-10S-007500-15W	500-750	110	6631	180	7500	75	70.7	137.8	1800	445.5	10	行星 Planetary
200系列 Series	ABT-X-200-10P-006500-15W	500-750	105	5875	180	6500	55	70.7	137.8	1800	445.5	10	行星 Planetary
	ABT-X-200-10P-007500-15W	500-750	110	6631	180	7500	75	70.7	137.8	1800	445.5	10	行星 Planetary
270系列 Series	ABT-X-270-10P-010000-12W	800-1000	125	9245	150	10000	75	81.7	158	1500	554	10	行星 Planetary
325系列	ABT-X-325-16P-014000-17W	1000-1200	140	12413	130	14000	90	117.5	189.1	2100	/	16	行星 Planetary
400系列 Series	ABT-X-400-16P-018000-17W	1300-1600	160	17565	130	18000	110	142.4	231.2	2100	/	16	行星 Planetary
470系列 Series	ABT-X-470-20P-028000-17W	1700-2000	185	25621	100	28000	130	142.4	231.2	2100	/	20	行星 Planetary
	ABT-X-470-24P-035000-17W	1850-2300	200	31378	80	35000	130	169.1	274.5	2100	/	24	行星 Planetary
510系列 Series	ABT-X-510-24P-037000-17W	1850-2300	210	35622	80	37000	160	169.1	274.5	2100	/	24	行星 Planetary
	ABT-X-510-24P-045000-17W	2100-2500	220	40202	80	45000	180	195.8	317.9	2100	/	24	行星 Planetary
560系列 Series	ABT-X-560-24P-054000-17W	2300-2800	235	47722	75	54000	220	240.3	415.7	1900	/	24	行星 Planetary
	ABT-X-560-24P-062000-17W	2500-2800	250	56052	75	62000	280	275.9	464	1900	/	24	行星 Planetary
	ABT-X-560-24P-070000-13W	2800-4000	260	62069	60	70000	220	231.4	398.3	1500	/	24	行星 Planetary
	ABT-X-560-24P-078000-13W	3300-5000	270	68468	60	78000	280	265.4	444.7	1500	/	24	行星 Planetary

4.2 ABT 行星一体机高速系列产品规格
 Planetary Integrator High Speed Series Specifications

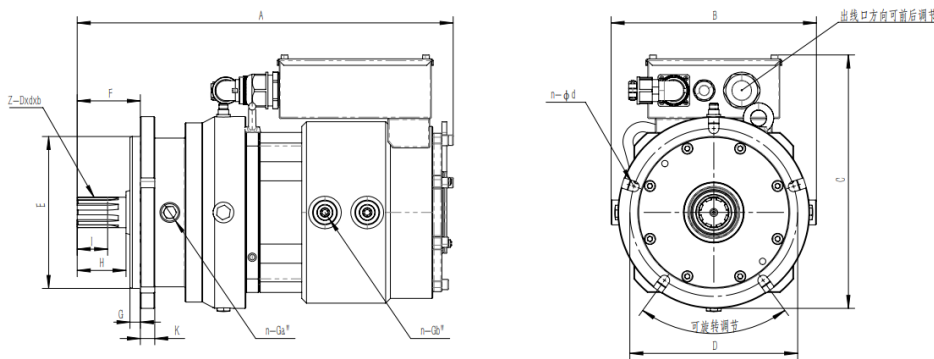
规格 Terminal Box	电熔胶产品规格 (EC1系列) Electromelt Product Specifications (EC1 Series)	适应吨位 T Applicable Tonnage	最大螺杆 直径 MM Maximum Screw Diameter	最大螺杆 扭矩 Nm Maximum Screw Torque	最大输出 转速 Maximum Output Speed	齿轮箱输出 扭矩 Nm Gearbox Output Torque	驱动器额定 功率 KW Drive Rated Power	电机额定 功率 KV Motor Rated Power	电机额定 电流 A Motor Rated Current	电机最高 转速 RPM Motor Maximum Speed	总重量 KG Total Weight	齿轮箱 减速比 Gearbox Reduction Ratio	传动方式 Transmission Mode
03S系列 Series	ABT-X-003G-06S-000650-20W	80-230	45	558	400	650	15	17.2	30.6	2500	92	6.25	行星 Planetary
	ABT-X-003G-06S-000650-20F	80-230	45	558	400	650	15	17.2	30.6	2500	92	6.25	行星 Planetary
06S系列 Series	ABT-X-006G-06S-001000-20W	160-260	60	1146	360	1000	22	22.0	46.1	2200	108	5.9	行星 Planetary
	ABT-X-006G-06S-001000-20F	160-260	60	1146	360	1000	22	22.0	46.1	2200	105	5.9	行星 Planetary
08S系列 Series	ABT-X-008G-08S-001500-20W	260-500	65	1400	320	1500	30	25.1	43.8	2500	148	7.8	行星 Planetary
	ABT-X-008G-08S-002000-20W	260-600	75	2003	320	2000	37	35.6	62	2500	162	7.8	行星 Planetary
11S系列 Series	ABT-X-011G-08S-003000-20W	320-600	80	2353	300	3000	45	48.2	82.6	2400	177.5	7.8	行星 Planetary
16S系列 Series	ABT-X-016G-10S-004000-20W	400-750	90	3159	230	4000	45	48.2	82.6	2300	205.5	10	行星 Planetary
31S系列 Series	ABT-X-031G-10S-006000-17W	500-800	100	4111	210	6000	55	80.1	146.4	2100	457.5	10	行星 Planetary
	ABT-X-031G-10S-006500-17W	500-800	110	5217	210	6500	75	80.1	146.4	2100	457.5	10	行星 Planetary
200S系列 Series	ABT-X-200G-10P-006000-17W	800-1000	100	4111	210	6000	55	80.1	146.4	2100	457.5	10	行星 Planetary
	ABT-X-200G-10P-006500-17W	800-1000	110	5217	210	6500	75	80.1	146.4	2100	457.5	10	行星 Planetary
270S系列 Series	ABT-X-270G-10P-007500-17W	800-1000	120	6485	180	7500	75	103.7	187.4	1800	554	10	行星 Planetary

4.3 一体冷却配置表
 Integrated cooling configuration table

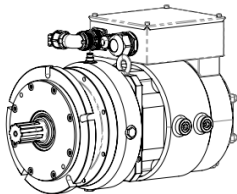
规格 Specifications	电熔胶产品规格 Electromelt product specifications	一体冷却 Integrated cooling
03系列 Series	ABT-X-003-08S-000750-20W	ABT-200R022-3B0350-C032L
06系列 Series	ABT-X-006-09S-001400-20W	ABT-200R022-3B0350-C032L
08系列 Series	ABT-X-008-09S-002000-17W	ABT-200R022-3B0350-C032L
11系列 Series	ABT-X-011-09S-003000-17W	ABT-200R022-3B0750-C064L
	ABT-X-011-09S-003700-17W	ABT-200R022-3B0750-C064L
16系列 Series	ABT-X-016-10S-004000-17W	ABT-200R022-3B0750-C064L
	ABT-X-016-10S-004800-17W	ABT-200R022-3B0750-C064L
31系列 Series	ABT-X-031-10S-006500-15W	ABT-200R022-3B0750-C064L
	ABT-X-031-10S-007500-15W	ABT-200R022-3B0750-C064L
200系列 Series	ABT-X-200-10P-006500-15W	ABT-200R022-3B0750-C064L
	ABT-X-200-10P-007500-15W	ABT-200R022-3B0750-C064L
270系列 Series	ABT-X-270-10P-010000-12W	ABT-200R038-3B2200-C160L
325系列 Series	ABT-X-325-16P-014000-17W	ABT-200R038-3B2200-C160L
400系列 Series	ABT-X-400-16P-018000-17W	ABT-200R038-3B2200-C160L
470系列 Series	ABT-X-470-16P-028000-17W	ABT-200R038-3B2200-C160L
	ABT-X-470-24P-035000-17W	ABT-200R038-3B2200-C160L
510系列 Series	ABT-X-510-24P-037000-17W	ABT-200R038-3B2200-C160L
	ABT-X-510-24P-045000-17W	ABT-200R038-3B2200-C160L
560系列 Series	ABT-X-560-24P-054000-17W	ABT-200R038-3B3000-C200L
	ABT-X-560-24P-062000-17W	ABT-200R038-3B3000-C200L
	ABT-X-560-24P-070000-13W	ABT-200R038-3B3000-C200L
	ABT-X-560-24P-078000-13W	ABT-200R038-3B3000-C200L
03S系列 Series	ABT-X-003-06S-000650-20W	ABT-200R022-3B0350-C032L
06S系列 Series	ABT-X-006-06S-001000-20W	ABT-200R022-3B0350-C032L
08S系列 Series	ABT-X-008-08S-001500-20W	ABT-200R022-3B0750-C064L
	ABT-X-008-08S-002000-20W	ABT-200R022-3B0750-C064L
11S系列 Series	ABT-X-011-08S-003000-20W	ABT-200R022-3B0750-C064L
16S系列 Series	ABT-X-016-10S-004000-20W	ABT-200R022-3B0750-C064L
31S系列 Series	ABT-X-031-10S-006000-17W	ABT-200R022-3B0750-C064L
	ABT-X-031-10S-006500-17W	ABT-200R022-3B0750-C064L
200S系列 Series	ABT-X-200-10P-006000-17W	ABT-200R022-3B0750-C064L
	ABT-X-200-10P-006500-17W	ABT-200R022-3B0750-C064L
270S系列 Series	ABT-X-270-10P-007500-17W	ABT-200R038-3B2200-C160L

五、外形尺寸 Dimensions

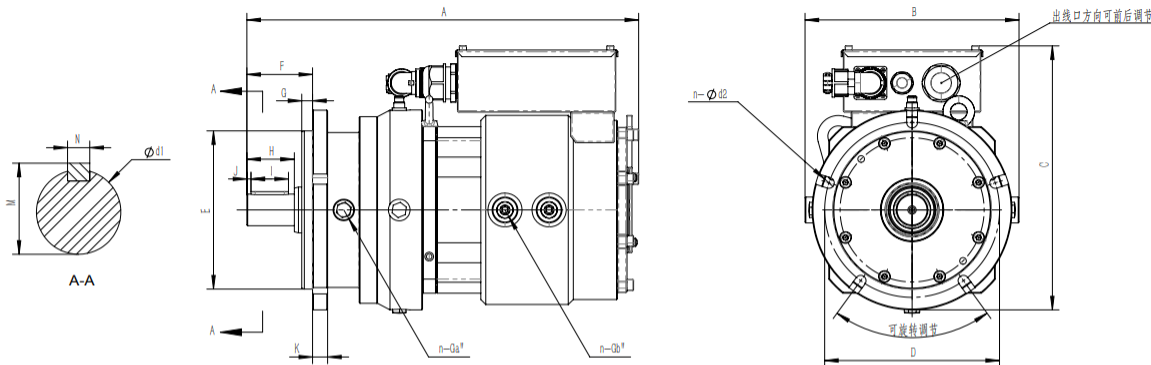
5.1 ABT 系列-标准花键 Series - Standard Spline



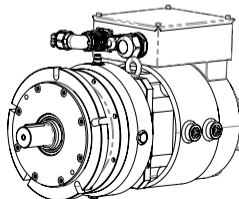
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ABT-X-003-085-000750-20W	471	257	317	210	190	79	13	61	38	18	5-φ13	***	4-G 3/8"	8-38b12x32b12x6f8
ABT-X-006-095-001400-20W	550	285	340	254	230	90	14	68	43	20	5-φ16	***	4-G 3/8"	8-42b12x36b12x7f8
ABT-X-008-095-002000-17W	564	335	392	300	256	102.5	15	75	50	25	5-φ17	2-G 3/8"	4-G 3/8"	8-50b12x46b12x9f8
ABT-X-011-095-003000-17W	603	335	392	300	256	102.5	15	75	50	25	5-φ17	2-G 3/8"	4-G 3/8"	8-50b12x46b12x9f8
ABT-X-011-095-003700-17W	644	335	421	300	256	102.5	15	75	50	25	5-φ17	2-G 3/8"	4-G 3/8"	8-50b12x46b12x9f8
ABT-X-016-105-004000-17W	702	370	439	327	301.5	148	18	100	65	32	5-φ21	2-G 3/8"	4-G 3/8"	8-72b12x62b12x12f8
ABT-X-016-105-004800-17W	747	370	439	327	301.5	148	18	100	65	32	5-φ21	2-G 3/8"	4-G 3/8"	8-72b12x62b12x12f8
ABT-X-031-105-006500-15W	851	475	491	420	380	166	20	134	80	40	5-φ25	2-G 1/2"	4-G 1/2"	10-92b12x82b12x12f8
ABT-X-031-105-007500-15W	837	475	552	420	380	166	20	134	80	35	5-φ26	2-G 1/2"	4-G 1/2"	10-92b12x82b12x12f8



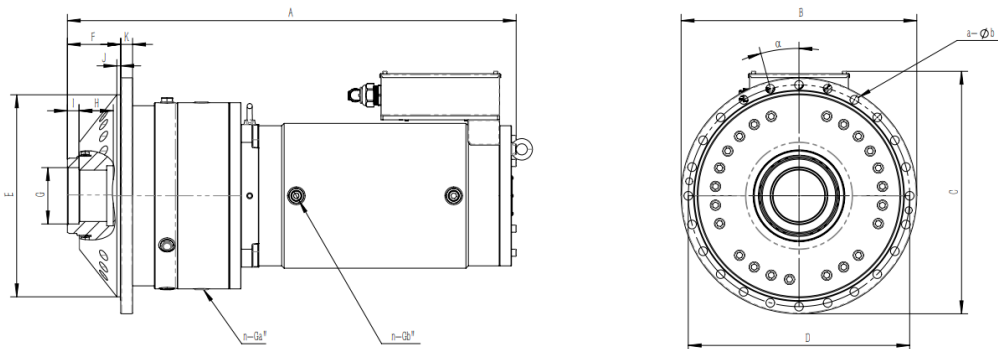
5.2 ABT系列-标准平键 Series - Standard Flat Key



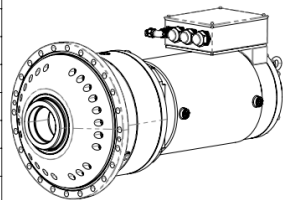
型号\尺寸 Model/Dimensions	A	B	C	D	E	F	G	H	I	J	K	M	N	φd1	n-φd2	n-Ga"	n-Gb"
ABT-X-200-10P-006500-15W	837	475	552	419.1	381	165	20	134	125	4	35	92	24	φ85	5-φ22	2-G 1/2"	4-G 1/2"
ABT-X-200-10P-007500-15W	837	475	552	419.1	381	165	20	134	125	4	35	92	24	φ85	5-φ22	2-G 1/2"	4-G 1/2"
ABT-X-270-10P-010000-12W	952	570	655	520.7	457	190	24	153	140	5	35	93	24	φ85	7-φ22	2-G 1/2"	4-G 1/2"
ABT-X-325-16P-014000-17W	1099	555	592	520.7	457	187	18	154	140	5	20	93	24	φ85	14-φ21	2-G 1/2"	4-G 1/2"
ABT-X-400-16P-018000-17W	1130	460	565	419.1	381	182	18	141	115	5	20	116	24	φ100	10-φ21	2-G 1/2"	4-G 1/2"



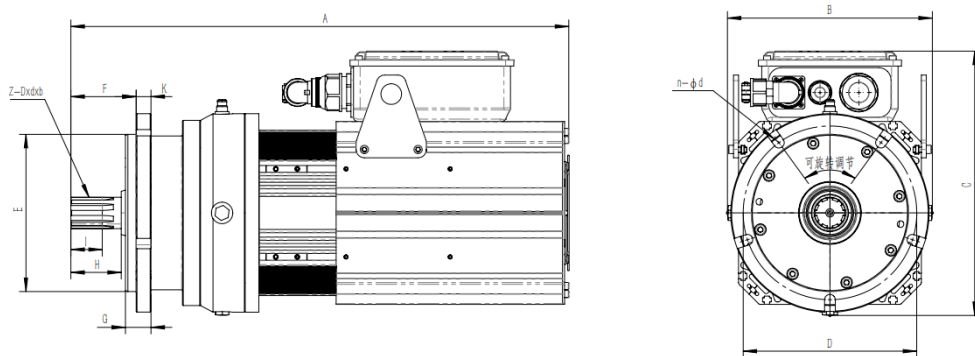
5.3 EC1 系列-重载 Series - Heavy Duty



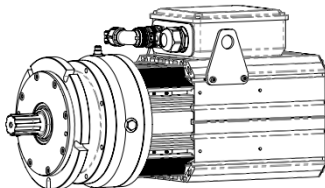
型号\尺寸 Model/Dimensions	A	B	C	D	E	F	G	H	I	J	K	α	n-Ga"	n-Gb"	a-φb	Na×b×c×d×eH
ABT-X-470-20P-028000-17W	1110	596	575	560	510	135	142	70	29.5	10	30	15°	2-G 1/2"	4-G 1/2"	24-φ22均布	N140×5×30×26×9H(DIN5480)
ABT-X-470-24P-035000-17W	1182	596	575	560	510	156.5	152	106	45.5	10	30	15°	2-G 1/2"	4-G 1/2"	24-φ22均布	N150×5×30×28×9H(DIN5480)
ABT-X-510-24P-037000-17W	1187	596	613	560	510	156.5	152	106	45.5	10	30	15°	2-G 1/2"	4-G 1/2"	24-φ22均布	N150×5×30×28×9H(DIN5480)
ABT-X-510-24P-045000-17W	1237	596	613	560	510	156.5	152	106	45.5	10	30	15°	2-G 1/2"	4-G 1/2"	24-φ22均布	N150×5×30×28×9H(DIN5480)
ABT-X-560-24P-054000-17W	1253	596	668	560	510	156.5	152	106	45.5	10	30	15°	2-G 1/2"	4-G 1/2"	24-φ22均布	N150×5×30×28×9H(DIN5480)
ABT-X-560-24P-062000-17W	1253	596	668	560	510	156.5	152	106	45.5	10	30	15°	2-G 1/2"	4-G 1/2"	24-φ22均布	N150×5×30×28×9H(DIN5480)
ABT-X-560-24P-070000-13W	1303	596	668	560	510	156.5	152	106	45.5	10	30	15°	2-G 1/2"	4-G 1/2"	24-φ22均布	N150×5×30×28×9H(DIN5480)
ABT-X-560-24P-078000-13W	1353	596	668	560	510	156.5	152	106	45.5	10	30	15°	2-G 1/2"	4-G 1/2"	24-φ22均布	N150×5×30×28×9H(DIN5480)



5.4 EC1 系列-风冷 Series - Air Cooling



型号\尺寸 Model/Dimensions	A	B	C	D	E	F	G	H	I	K	n-φd	n-Ga"	Z-Dxdxb
ABT-X-003-085-000750-20F	597.5	245	318	210	190	79	13	57	38	18	5-φ13	***	8-38b12x32b12x6f8
ABT-X-006-095-001400-20F	676.5	285	337	254	230	90	14	68	46	20	5-φ16	***	8-42b12x36b12x7f8



六、安装和储存 Installation and Storage

6.1、安装 Installation

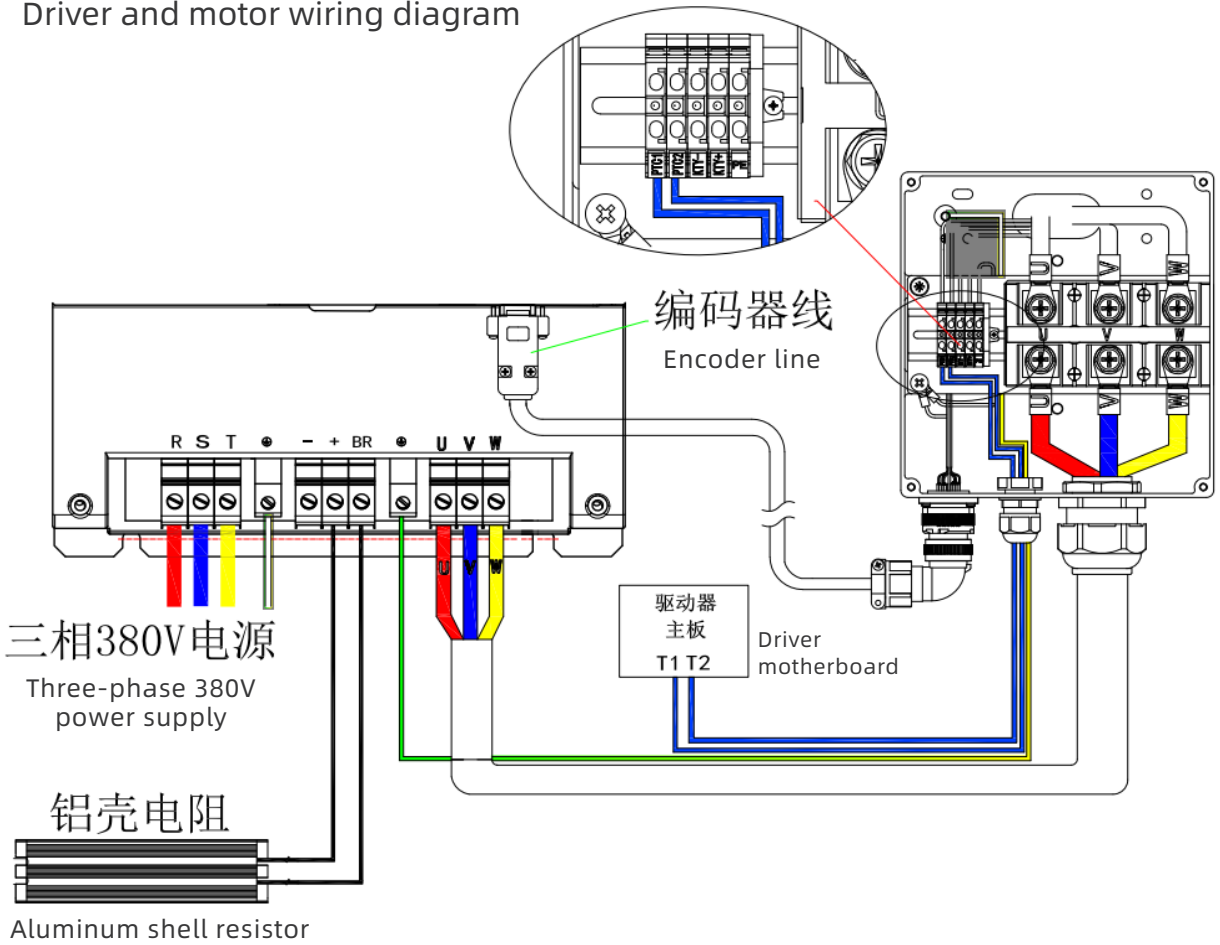
- ◆ 小心拆除本设备的包装以及其他的保护装置，特别要注意保护好结合面。
 - ◆ 查看本设备铭牌确保与订货规格一致。
 - ◆ 确保本设备在运输和起吊过程中没有损坏。
 - ◆ 确保本设备的螺栓、螺母没有松动。
 - ◆ 确保本设备没有受雨淋或受潮。
 - ◆ 确保安装本设备的结构具有足够的刚性强度足以支持本设备的重量和工作应力。
 - ◆ 确保安装面的同心度和垂直度。
 - ◆ 确保轴与轴或孔之间均已完全对齐并紧密结合。
 - ◆ 在安装本设备时，为防止本设备受到风雨或太阳暴晒，应安装防护装置并注意通风。
- ◆ Carefully remove the packaging and other protective devices of this equipment, and pay special attention to protecting the joint surface.
 - ◆ Check the nameplate of this equipment to ensure that it is consistent with the order specifications.
 - ◆ Ensure that this equipment is not damaged during transportation and lifting.
 - ◆ Ensure that the bolts and nuts of this equipment are not loose.
 - ◆ Ensure that this equipment is not exposed to rain or moisture.
 - ◆ Ensure that the structure on which this equipment is installed has sufficient rigidity to support the weight and working stress of this equipment.
 - ◆ Ensure the concentricity and verticality of the installation surface.
 - ◆ Ensure that the shafts and shafts or holes are fully aligned and tightly combined.
 - ◆ When installing this equipment, in order to prevent the equipment from being exposed to wind, rain or sun, protective devices should be installed and attention should be paid to ventilation.

6.2、储存 Storage

- ◆ 本设备的储存环境温度为-20℃至 40℃。
 - ◆ 不允许将本设备存放在潮湿或露天的地方。
 - ◆ 将本设备放置在一个稳定的位置，确保不会发生意外移动。
 - ◆ 如果本设备存放时间超过 3 个月，需在本设备的外表面做好防锈措施。
 - ◆ 本设备内注有润滑油，需确保透气塞朝上放置。
- ◆ The storage environment temperature of this device is -20℃ to 40℃.
 - ◆ The device is not allowed to be stored in a humid or open-air place.
 - ◆ Place the device in a stable position to ensure that it will not move accidentally.
 - ◆ If the device is stored for more than 3 months, anti-rust measures must be taken on the outer surface of the device.
 - ◆ The device is filled with lubricating oil, and it is necessary to ensure that the vent plug is placed upwards.

七、接线 Wiring

驱动和电机接线图解
 Driver and motor wiring diagram



八、保养和维护 Maintenance and care

8.1、日常保养项目 Daily maintenance items

日常检查项目按以下要求实施
 Daily inspection items shall be implemented according to the following requirements

序号 Serial number	日常检查项目 Daily inspection items	确认 Confirmation
1	检查环境温度和湿度正常、无灰尘和异物 Check that the ambient temperature and humidity are normal, and there is no dust or foreign matter	☐
2	检查无异常振动和噪音 Check that there is no abnormal vibration and noise	☐
3	检查电源电压正常 Check that the power supply voltage is normal	☐
4	检查本设备密封处是否有泄漏情况 Check whether there is leakage at the seal of this equipment	☐
5	检查电机和减速机冷却油是否正常循环 Check whether the cooling oil of the motor and reducer is circulating normally	☐

8.2、定期保养项目 Regular maintenance items

对象 Objects	标准保养周期 Standard maintenance cycle	备注 Remarks
电机 Motor	每年至少检查一次电机的绝缘电阻 Check the insulation resistance of the motor at least once a year.	使用兆欧表测量绝缘电阻。测量U、V、W其中一相与地线的电阻，确保阻值大于50MΩ Use a megohmmeter to measure the insulation resistance. Measure the resistance between one of the U, V, and W phases and the ground wire to ensure that the resistance value is greater than 50MΩ
减速机 Reducer	每 5 年或每 2 万小时一次，以二者任意一个先到达为准 Once every 5 years or every 20,000 hours, whichever comes first	根据保养要求执行 Perform according to maintenance requirements
润滑油 Lubricating oil	根据润滑油更换要求进行 Carry out according to the requirements of lubricating oil replacement	拆除泄油口螺栓，排空旧的润滑油，拧紧泄油口螺栓，加注 220 牌号及以上的工业齿轮油 Remove the oil drain bolt, drain the old lubricating oil, tighten the oil drain bolt, and fill with industrial gear oil of grade 220 or above
一体机密封系统 Integrated machine sealing system	出现漏油情况请与厂家联系维修更换 If there is oil leakage, please contact the manufacturer for repair and replacement	检查系统连接处是否存在渗油及漏油情况 Check whether there is oil seepage and oil leakage at the system connection
冷却循环装置 Cooling circulation device	每 3 个月至少检查一次冷却装置的冷却效果 Check the cooling effect of the cooling device at least once every 3 months	检测冷却装置出油温度是否正常 Check whether the oil outlet temperature of the cooling device is normal

8.3、日常维护换油 Daily maintenance oil change

时间 Time	零件 Parts	内容 Contents	解决方案 Solution
初次运行 500 小时或间隔 6 个月 First run 500 hours or 6 months interval	初始润滑油 Initial lubricant	初次保养 First maintenance	更换新的润滑油 Replace with new lubricant
	减速机外壳 Reducer housing	检测表面温度是否超过75℃ Check if the surface temperature exceeds	停机并联系我司 Stop and contact us
	外部紧固件 External fasteners	检测紧固件松动情况 Check if the fasteners are loose	拧紧到规定力矩 Tighten to the specified torque
	外部紧固件 External fasteners	检测油位情况，观察是否有油泄漏 Check the oil level and observe if there is oil leakage	根据需要维修或更换 Repair or replace as needed
之后每运行2500 小时或间隔 6 个月 After that, every 2500 hours of operation or every 6 months	润滑油 Lubricating oil	建议进行一次保养 Maintenance is recommended	更换新的润滑油 Replace with new lubricating oil
50000 小时 hours	所有密封件 All seals	查看密封件是否磨损或老化 Check if the seals are worn or aged	更换老化或磨损的密封件 Replace aged or worn seals