

宁波亿加机械有限公司

NINGBO EAJEA MACHINERY CO., LTD

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caj^{ea}[®]
亿 加



COMPANY PROFILE

公司简介 >

宁波亿加机械有限公司是一家专业从事研发,生产和销售液压减速机、液压绞车、电动减速机、电动绞车等传动设备的制造公司。公司本着诚信经营、真诚合作、互盈互利的原则为广大客户提供优质、耐用、安全可靠的产品。

亿加机械紧跟世界液压传动设备的发展趋势,以创造世界先进水平的液压传动设备为目标,严格进行制造过程中的质量控制,公司主要生产行走减速机、回转减速机、卷扬减速机、液压绞车、电动绞车等,采用2级或3级行星齿轮传动,结构紧凑、安装简单的特点,被广泛应用于工程机械、矿山机械、石油机械、煤矿机械、船舶设备、军工、特种车辆等行业。如石油猫道、摊铺机、掘进机、船舶克令吊、旋挖钻机、液压方钻、运梁车、履带自卸车等设备。

我们坚持“亿心同创、加力共赢”的宗旨;“以质量求生存、以创新求发展”的质量方针;“真诚合作、用户至上”的服务理念;不断追求高品质的产品、优质的服务来满足不同客户的需求。

NingBo EAJEA Machinery Co.,Ltd. is a manufacturing company specializing in the research and development, production and sales of hydraulic reducers, hydraulic winches, electric reducers, electric winches and other transmission equipment. The company adheres to the principle of honest operation, sincere cooperation and mutual benefit, providing customers with high-quality, durable, safe and reliable products.

EAJEA closely follows the development trend of global hydraulic transmission equipment, aiming to create hydraulic transmission equipment at the world's advanced level. It strictly controls the quality during the manufacturing process. The company mainly produces traveling reducers, rotary reducers, winch reducers, hydraulic winches, electric winches, etc. It adopts 2-stage or 3-stage planetary gear transmission, featuring compact structure and simple installation. It is widely applied in industries such as construction machinery, mining machinery, petroleum machinery, coal mining machinery, Marine equipment, military industry, and special vehicles. Such as oil catways, pavers, tunnel boring machines, ship cranes, rotary drilling RIGS, hydraulic square drills, beam transporters, crawler dump trucks and other equipment.

We adhere to the tenet of "creating with one heart and achieving win-win results through additional efforts". The quality policy of "surviving by quality and developing by innovation" The service philosophy of "sincere cooperation and customer first" Constantly pursue high-quality products and excellent services to meet the needs of different customers.

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ET 行走减速机

ET TRAVEL REDUCER



产品概述

E系列行走、卷扬减速机由内置多片式制动器、多级行星齿轮、行星架组成。该产品采用本公司优秀的设计理念及先进的加工技术，有效的保证了较高的承载能力和运行的可靠性。它的特点是工作效率高、可靠性好、结构紧凑、工作压力高、可实现变速驱动。行走减速机直接与车轮或履带驱动连接。卷扬减速机用于驱动液压绞车、液压绞盘。

所列出的减速机表示公司已经投入生产的产品，我们也可根据客户要求提供其他安装尺寸及不同速比型号的产品。我们可在客户选型阶段为客户提供相关咨询服务，为客户找到适合的解决方案。如有需要请与本公司技术或销售人员联系。

该类产品可选择液压马达驱动或电机直接驱动，已广泛用于旋挖钻机的履带行走及主卷扬，轮式和履带式起重机的行走驱动，煤矿掘进机行走驱动，压路机、摊铺机，高空作业车轮驱动，平板车车轮驱动，石油钻并动力猫道，船舶克令吊，履带式平推自卸车等设备。

结构特点

- 紧凑的，节省空间的2级或者3级行星传动的结构形式
- 坚固的轴承结构可支承设备的部分重量
- 安装简单
- 换油方便
- 内装多片停车制动器
- 低噪音运行

选型指南

静液压传动装置只起传递功率的作用，功率和扭矩与转速相关。
 输入速度n1(rpm)输出速度n2(rpm)。
 输入扭矩T1(N·m)输出扭矩T2(N·m)。
 ①减速比:齿轮箱减速比包括有效减速比和公称减速比，有效减速比是齿轮箱输入速度和输出速度的比值，公称减速比为元整后接近有效减速比的比值。

$$i=n1/n2=T2/T1$$
 ②输出扭矩T2:T2=9550*P'/n2*ηP' 表示输入功率(KW)。η表示效率(简单起见我们不考虑减速机的效率)。

Product Overview

E series walking and winch reducer is composed of built-in multi-disc brake, multi-stage planetary gear and planetary carrier. The product adopts the company's excellent design concept and advanced processing technology, which effectively ensures high bearing capacity and operation reliability. It is characterized by high working efficiency, good reliability, compact structure, high working pressure, and can realize variable speed drive. The travel reducer is directly connected to the wheel or track drive. The winch reducer is used to drive hydraulic winches and hydraulic winches.

The reducers listed represent the products that have been put into production by the company, and we can also provide other installation sizes and models with different speed ratios according to customer requirements. We can provide relevant consulting services to customers during the customer selection stage to find the right solution for their customers. If necessary, please contact the company's technical or sales staff.

This kind of product can choose hydraulic motor drive or motor direct drive, has been widely used in rotary drilling rig crawler walking and main winch, wheeled and crawler crane walking drive, coal mine roadheader walking drive, road roller, paver, aerial work wheel drive, flat truck wheel drive, oil drilling power catwalk, ship crane, crawler side push dump truck and other equipment.

Specal Features

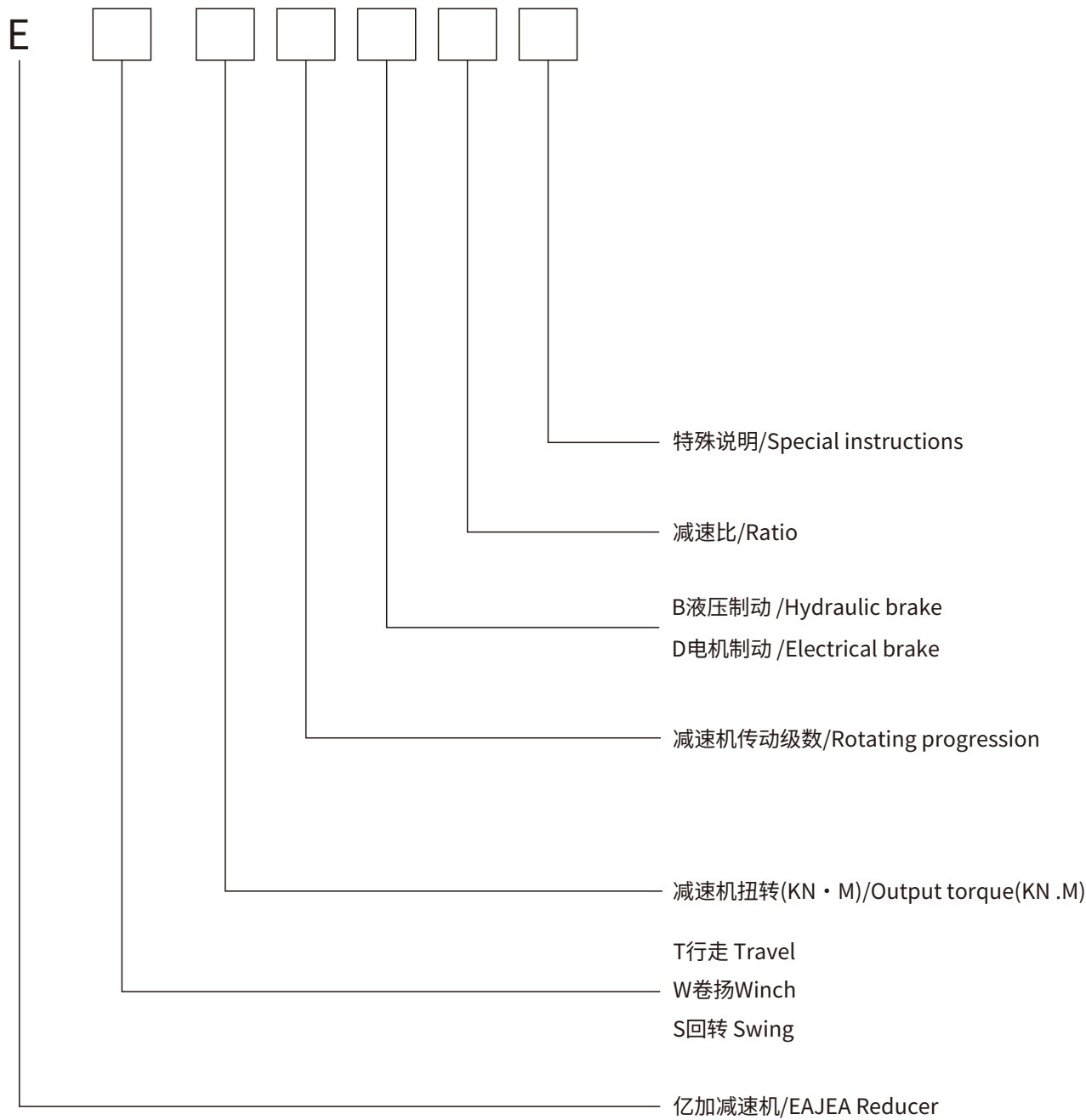
- Compact, space-saving, two- or three-stage planetary gear design
- Robust bearing system absorbing the forces exerted by the ring gear
- Simple mounting
- Easy oil change
- Integrated multiple-disk holding brake
- Low-noise running

Guide of Selection

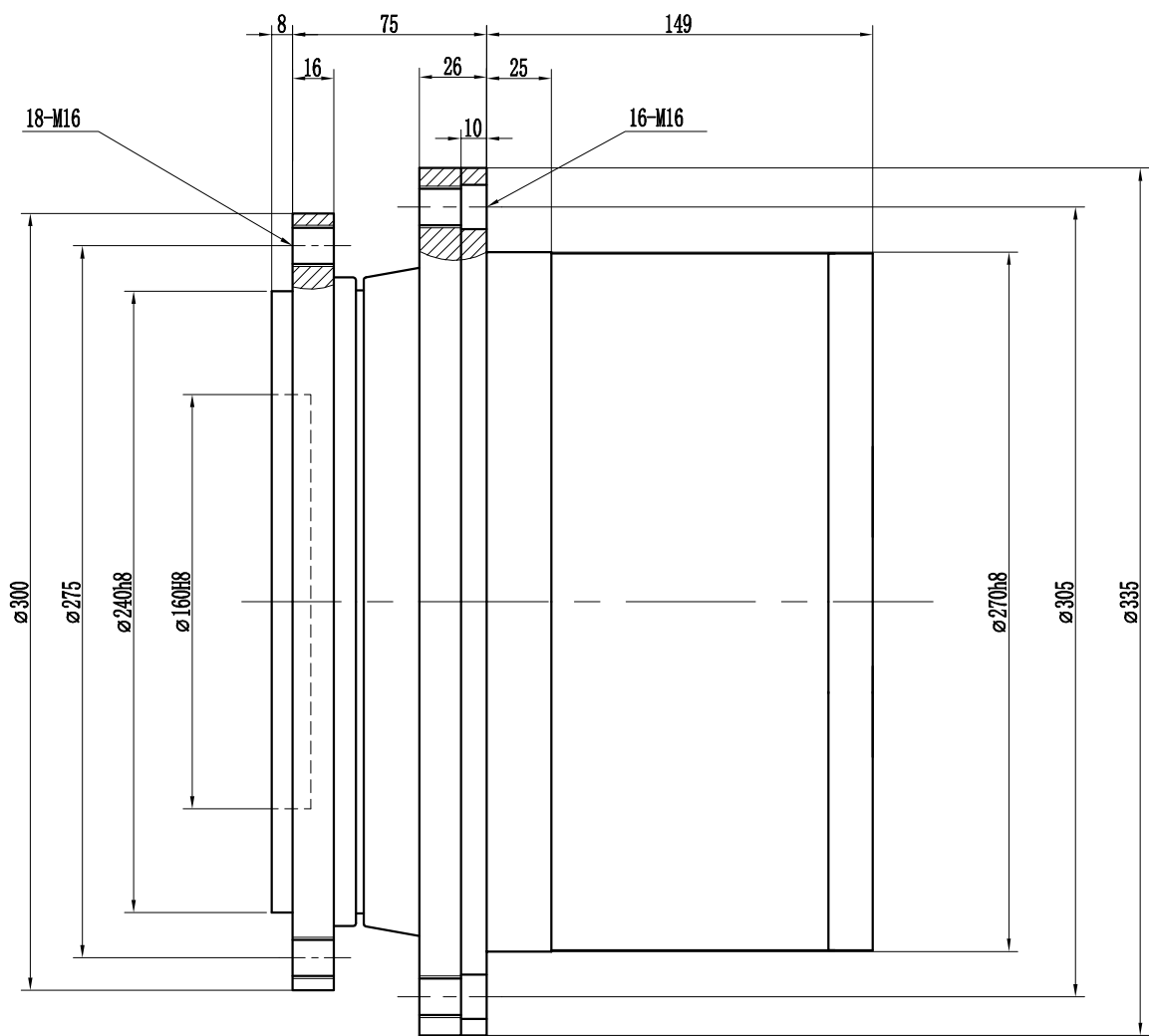
Hydrostatic drives only has thefunction of transmitting power, Power and torquecorrelate with rotation speed.
 input speed n1(rpm) output speed n2(rpm).
 input torque T1(N"m) output torque T1(N"m).
 ① Ratio i: ratio of gearbox includes valid ratio and nominal ratio, valid ratio is therate of input speed and output speed, while the nominal ratio is theclosest ratioto the valid ratio after rounding off.i=n1/n2=T2/T1
 2 Output Torque T2: T2=9550*p'/n2*η .p' input power(kW). η Efficiency(Here theefficiency of reducer was not considerd)

型号说明

MODEL DESCRIPTION



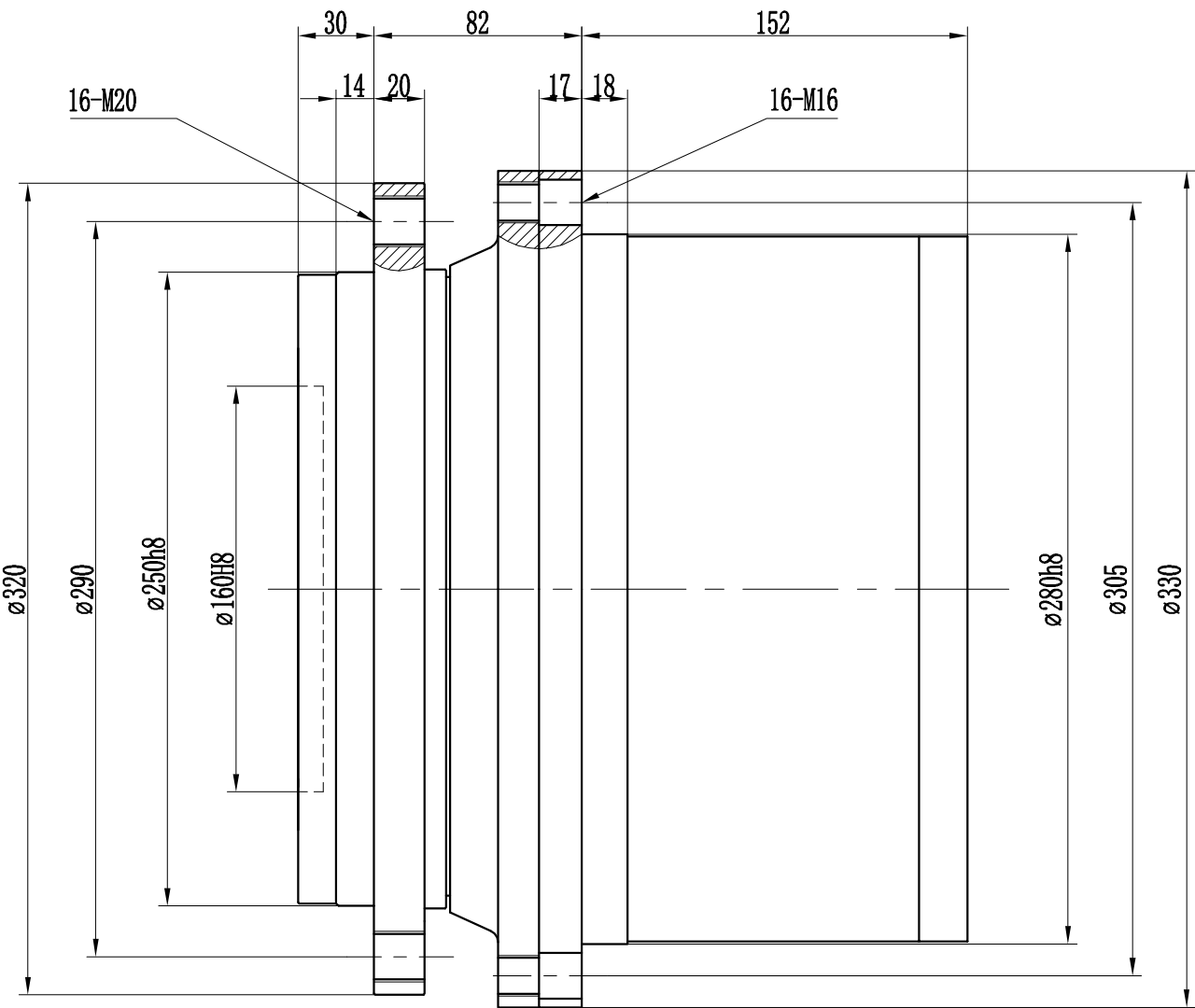
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技术参数 TECHNICAL PARAMETER

最大输出扭矩 Max output torque Tmax N · M	传动比 Ratio	最大输入转速 Max input rotating rpm	制动扭矩 Brake torque TBmax N · M	制动器工作压力 Brake working pressure MPa	液压马达 Hydraulic motor	重量 Weight Kg
13000	16.3 22.6 32.1 37.6	4000	400	1.8-5	A2FE45-Z A2FE56-Z A2FE63-Z A6VE55-Z	85
减速机输入转向与输出转向相反, 除表中所列传动比外, 对有批量的产品传动比可以另选。 输出转速允用值(样本中未规定)因实际工况而有所变化, 详情请咨询本公司相关技术人员。 Input rotating direction is of reverse to that of output and except the rotatin aio listed in the talble, the rotating ratio for the bulk products could be otherwise chosen. The allowed value for the output rotaing (as stated in the example) may varies according to the specific working condition and details could be consulted with our technicians.						

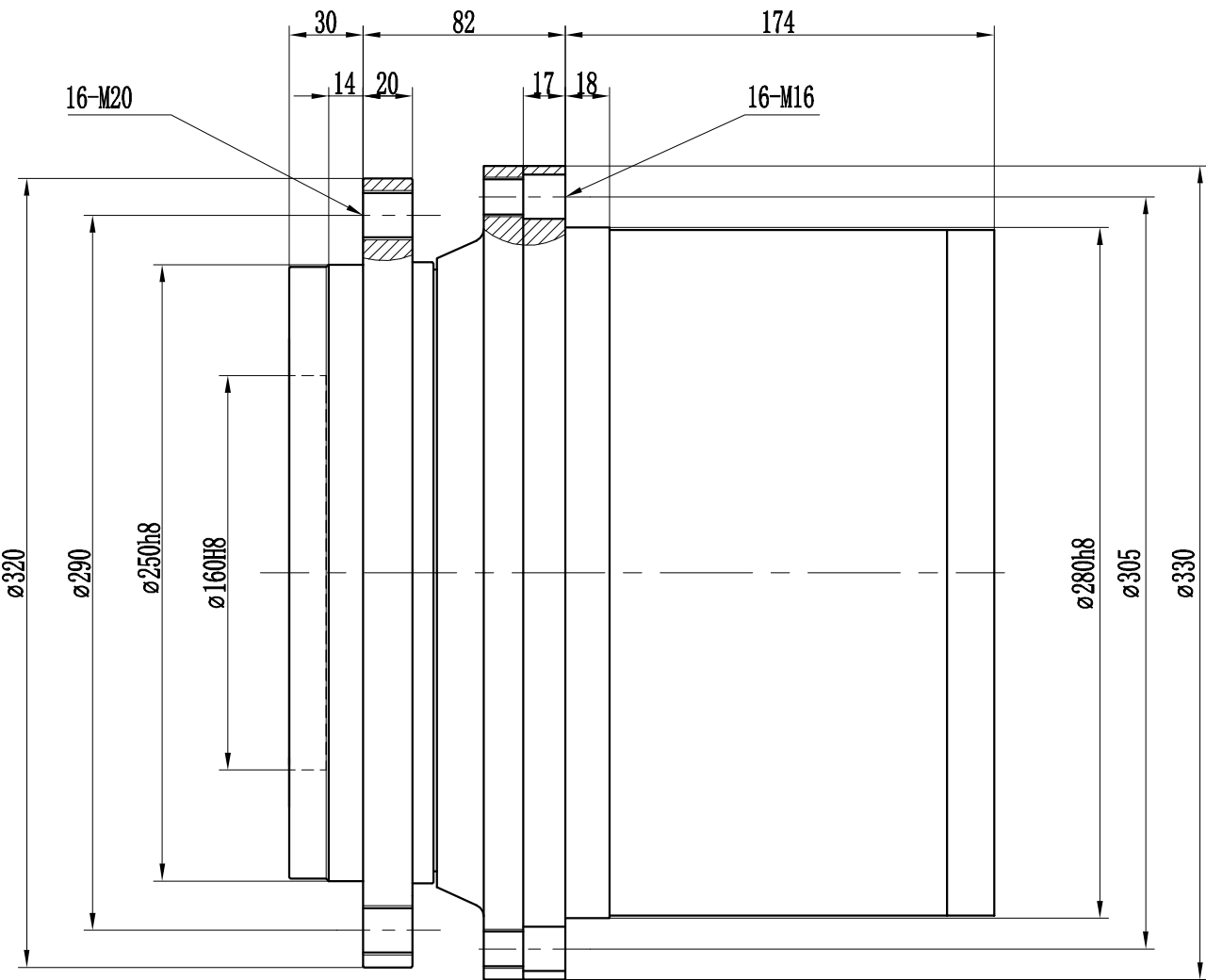
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技术参数 TECHNICAL PARAMETER

最大输出扭矩 Max output torque Tmax N·M	传动比 Ratio	最大输入转速 Max input rotating rpm	制动扭矩 Brake torque TBmax N·M	制动器工作压力 Brake working pressure MPa	液压马达 Hydraulic motor	重量 Weight Kg
17000	26.4 32.1 45.4 54	4000	400	1.8-5	A2FE45-Z A2FE56-Z A2FE63-Z A6VE55-Z	90
减速机输入转向与输出转向相反, 除表中所列传动比外, 对有批量的产品传动比可以另选。 输出转速允用值(样本中未规定)因实际工况而有所变化, 详情请咨询本公司相关技术人员。 Input rotating direction is of reverse to that of output and except the rotatin aio listed in the talble, the rotating ratio for the bulk products could be otherwise chosen. The allowed value for the output rotaing (as stated in the example) may varies according to the specific working condition and details could be consulted with our technicians.						

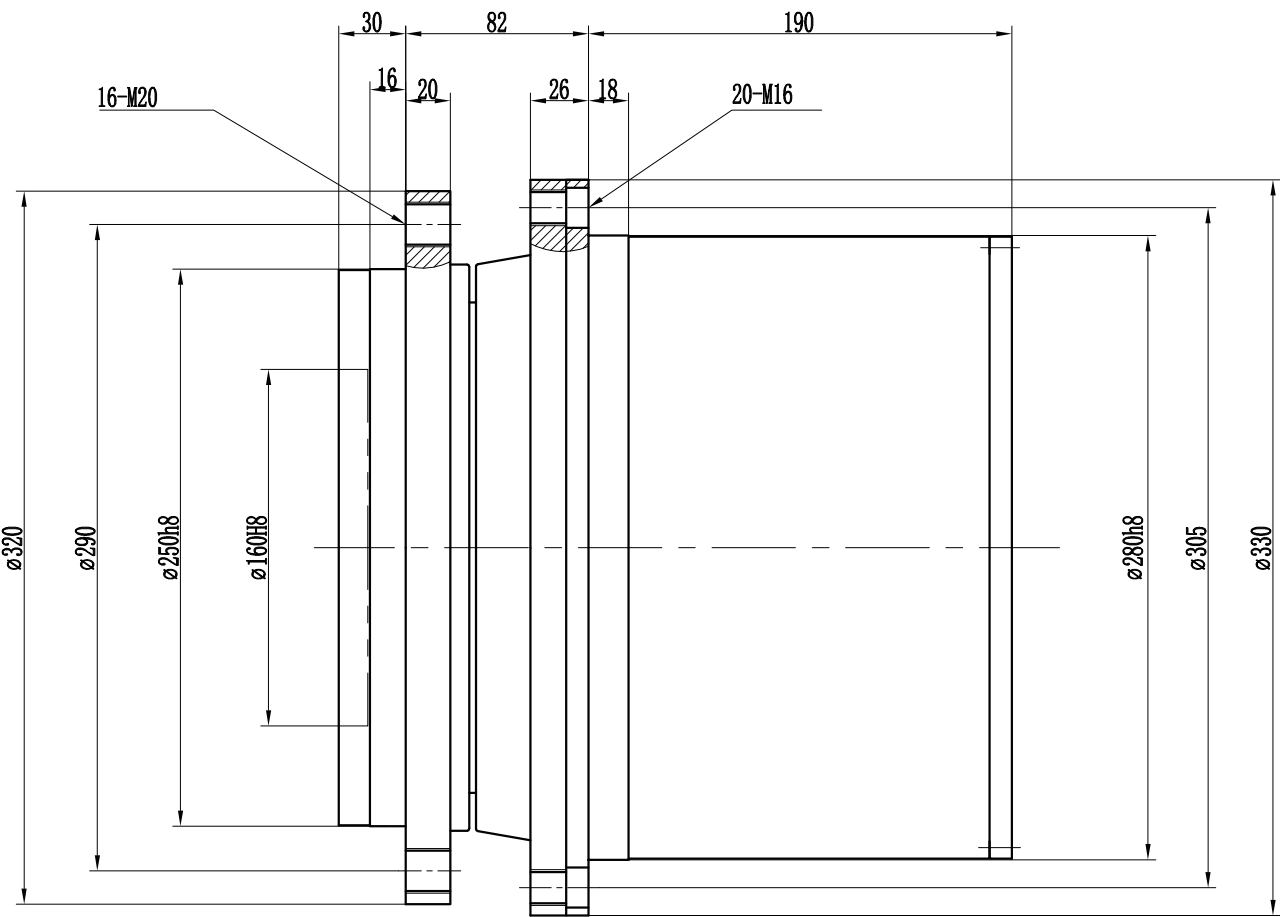
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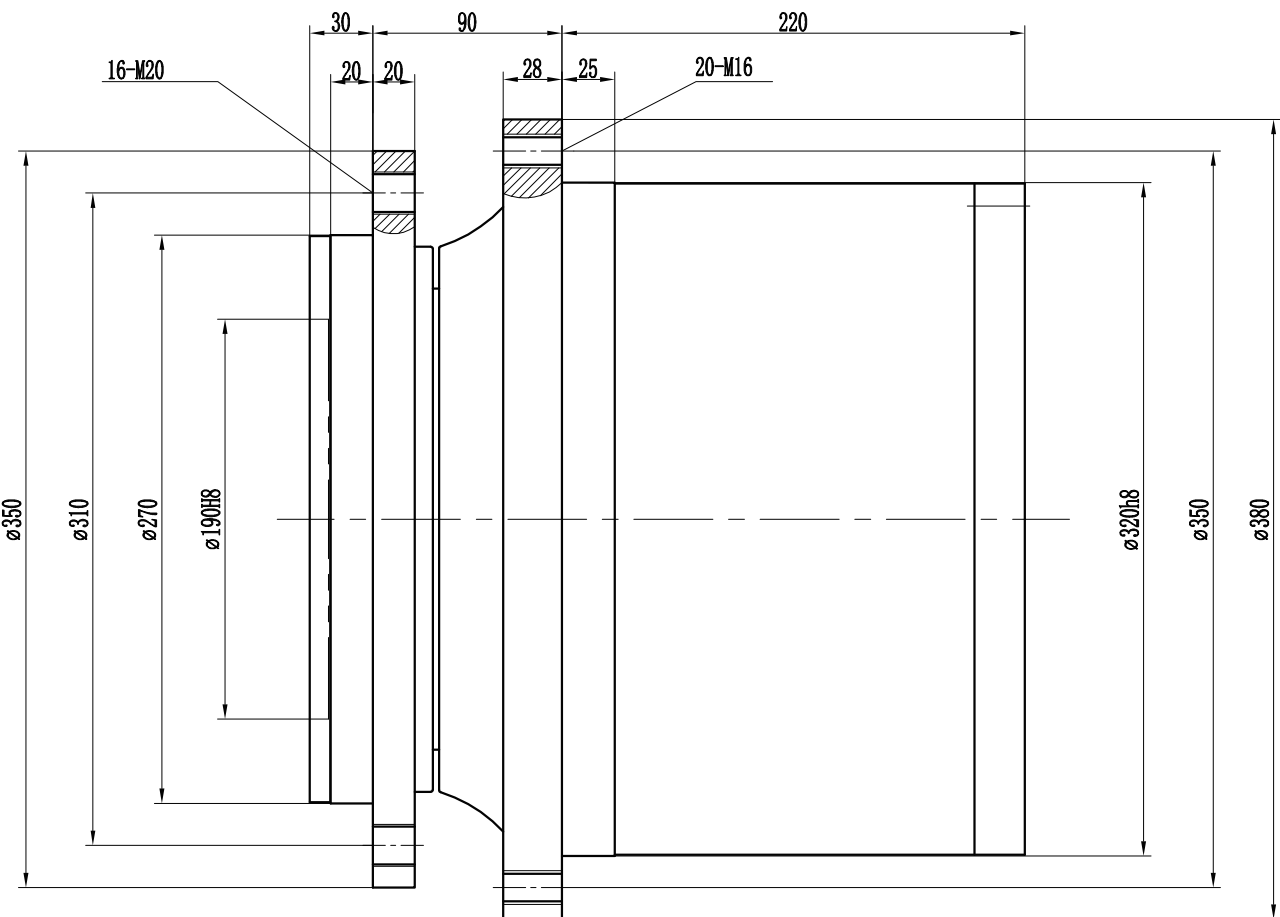
技术参数 TECHNICAL PARAMETER

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17000	77.9 88.2 102.6	4000	400	1.8-5	A2FE45-Z A2FE56-Z A2FE63-Z A6VE55-Z	100
减速机输入转向与输出转向相反, 除表中所列传动比外, 对有批量的产品传动比可以另选。 输出转速允用值(样本中未规定)因实际工况而有所变化, 详情请咨询本公司相关技术人员。 Input rotating direction is of reverse to that of output and except the rotatin aio listed in the talble, the rotating ratio for the bulk products could be otherwise chosen. The allowed value for the output rotaing (as stated in the example) may varies according to the specific working condition and details could be consulted with our technicians.						

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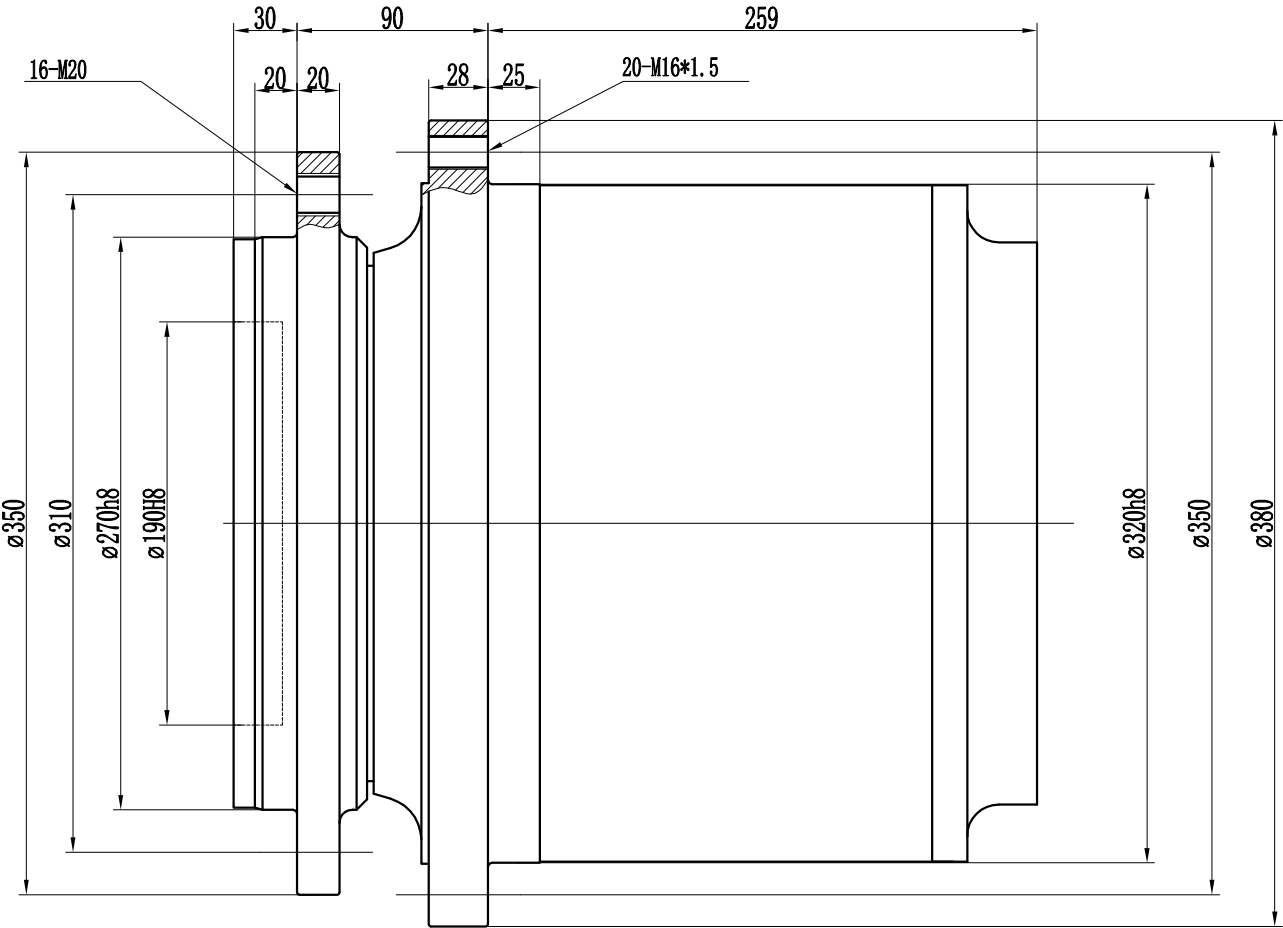
技术参数 TECHNICAL PARAMETER

最大输出扭矩 Max output torque Tmax N·M	传动比 Ratio	最大输入转速 Max input rotating rpm	制动扭矩 Brake torque TBmax N·M	制动器工作压力 Brake working pressure MPa	液压马达 Hydraulic motor	重量 Weight Kg
24000	90.1 102.6 120.5	3500	300	1.8-5	A2FE56-Z A2FE63-Z A6VE55-Z	110
减速机输入转向与输出转向相反, 除表中所列传动比外, 对有批量的产品传动比可以另选。 输出转速允用值(样本中未规定)因实际工况而有所变化, 详情请咨询本公司相关技术人员。 Input rotating direction is of reverse to that of output and except the rotatin aio listed in the talble, the rotating ratio for the bulk products could be otherwise chosen. The allowed value for the output rotaing (as stated in the example) may varies according to the specific working condition and details could be consulted with our technicians.						

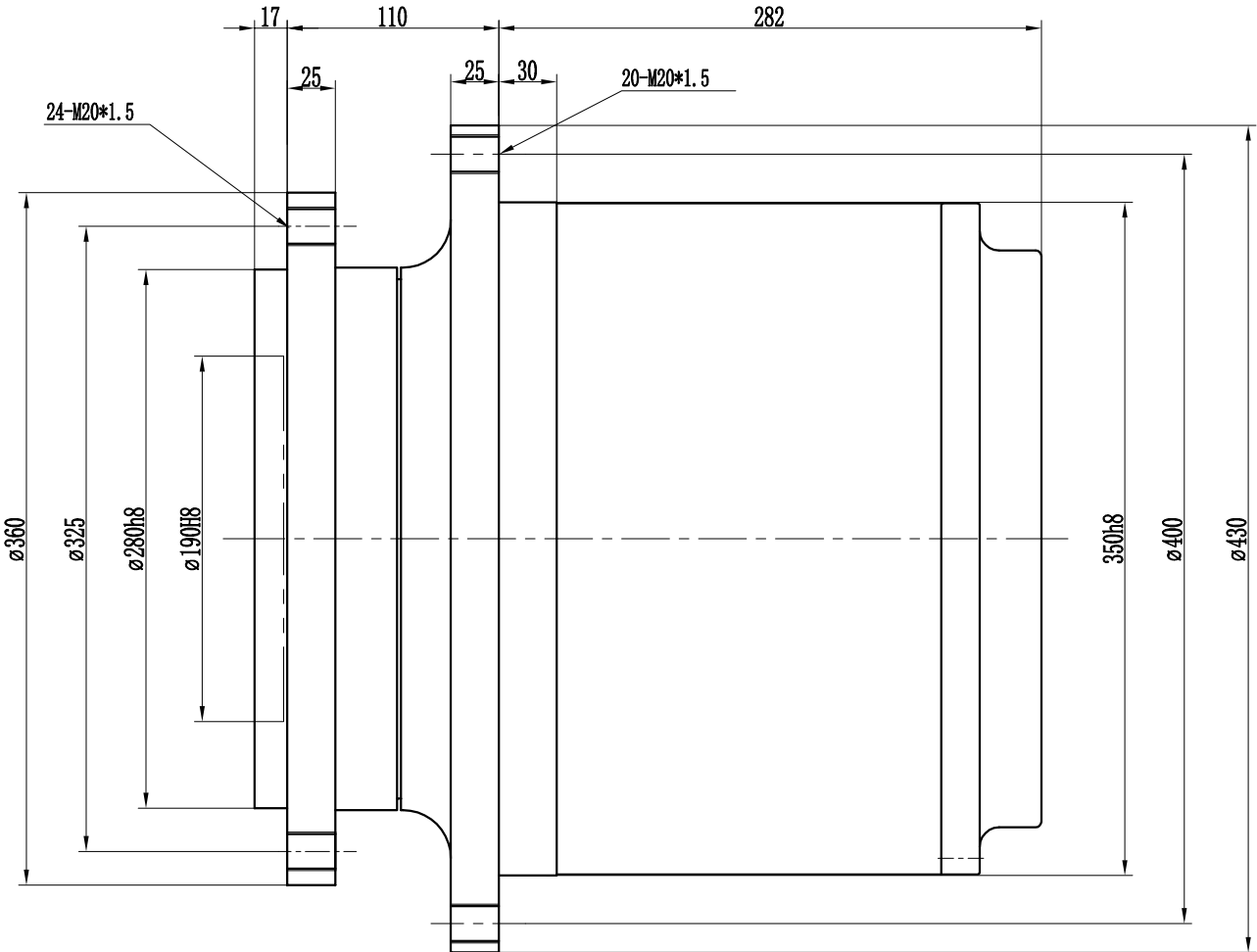
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26000	50.5 62	3500	700	1.8-5	A2FE80-A A2FE90-A A6VE80-A	150
减速机输入转向与输出转向相反, 除表中所列传动比外, 对有批量的产品传动比可以另选。 输出转速允用值(样本中未规定)因实际工况而有所变化, 详情请咨询本公司相关技术人员。 Input rotating direction is of reverse to that of output and except the rotatin aio listed in the talble, the rotating ratio for the bulk products could be otherwise chosen. The allowed value for the output rotaing (as stated in the example) may varies according to the specific working condition and details could be consulted with our technicians.						

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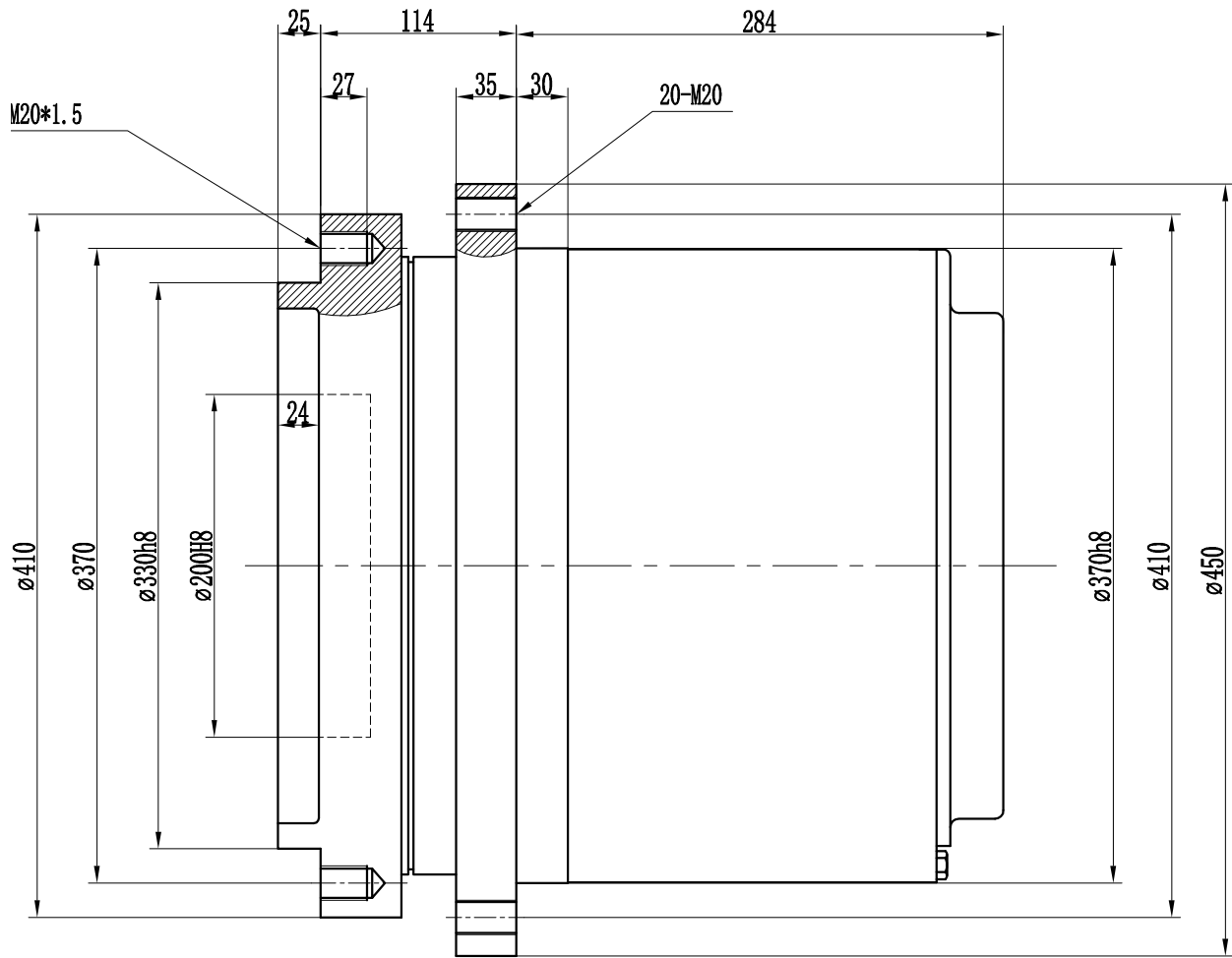
技术参数 TECHNICAL PARAMETER

最大输出扭矩 Max output torque Tmax N·M	传动比 Ratio	最大输入转速 Max input rotating rpm	制动扭矩 Brake torque TBmax N·M	制动器工作压力 Brake working pressure MPa	液压马达 Hydraulic motor	重量 Weight Kg
36000	67 67 79.4 92.2 100 116.3 139.8	3500	700	1.8-5	A2FE80-A A2FE90-A A6VE80-A	170
减速机输入转向与输出转向相反，除表中所列传动比外，对有批量的产品传动比可以另选。 输出转速允用值(样本中未规定)因实际工况而有所变化，详情请咨询本公司相关技术人员。 Input rotating direction is of reverse to that of output and except the rotatin aio listed in the talble, the rotating ratio for the bulk products could be otherwise chosen. The allowed value for the output rotaing (as stated in the example) may varies according to the specific working condition and details could be consulted with our technicians.						

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50000	84.2 91.1 99.8 146.4 185	3500	700	1.8-5	A2FE80-A A2FE90-A A6VE80-A	230
减速机输入转向与输出转向相反，除表中所列传动比外，对有批量的产品传动比可以另选。 输出转速允用值(样本中未规定)因实际工况而有所变化，详情请咨询本公司相关技术人员。 Input rotating direction is of reverse to that of output and except the rotatin aio listed in the talble, the rotating ratio for the bulk products could be otherwise chosen. The allowed value for the output rotaing (as stated in the example) may varies according to the specific working condition and details could be consulted with our technicians.						

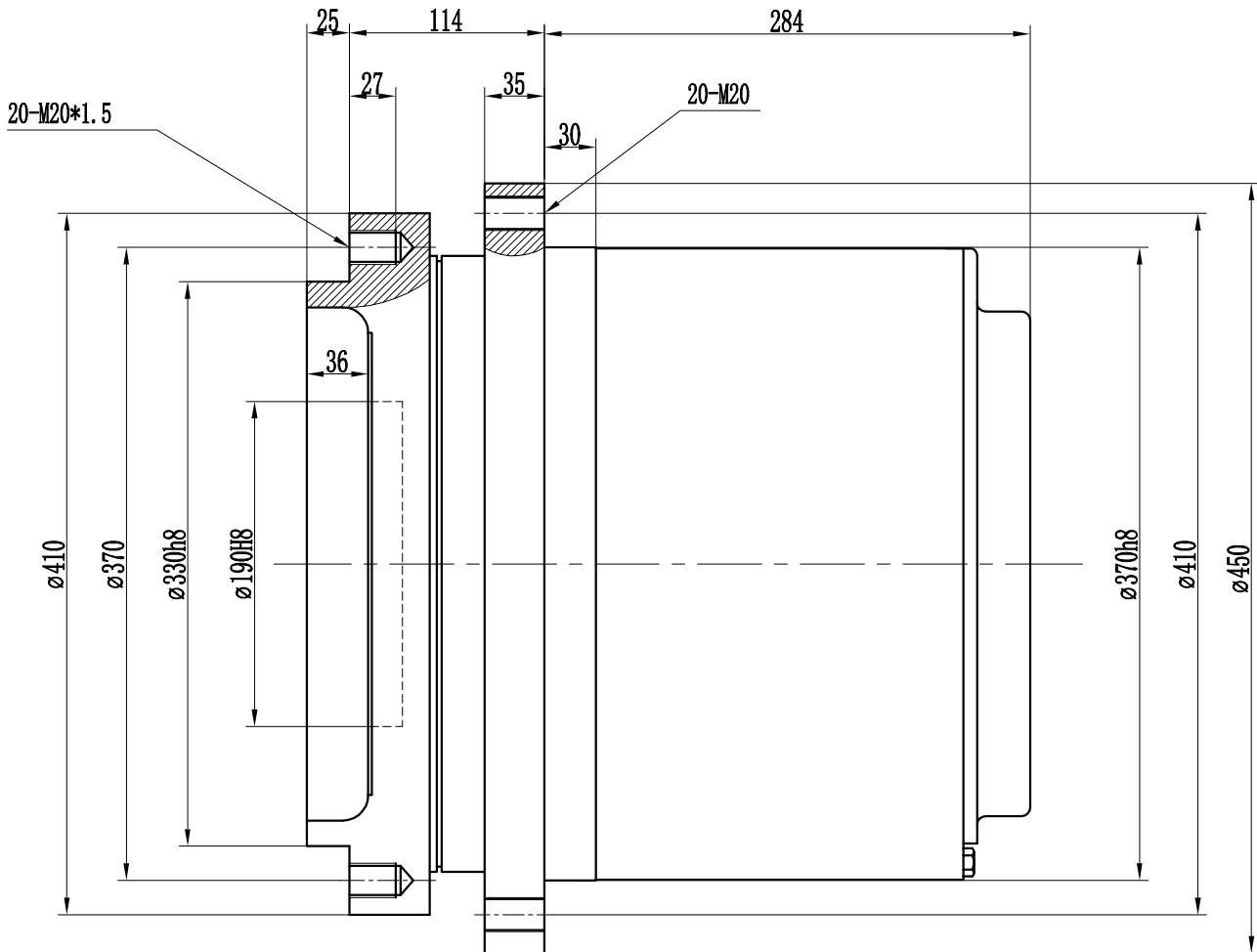
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技术参数 TECHNICAL PARAMETER

最大输出扭矩 Max output torque Tmax N·M	传动比 Ratio	最大输入转速 Max input rotating rpm	制动扭矩 Brake torque TBmax N·M	制动器工作压力 Brake working pressure MPa	液压马达 Hydraulic motor	重量 Weight Kg
60000	86.5 94.8 105.5 119.8 139.9 169.9	3600	725	1.8-5	A2FE107-Z A2FE125-Z	260
减速机输入转向与输出转向相反，除表中所列传动比外，对有批量的产品传动比可以另选。 输出转速允用值(样本中未规定)因实际工况而有所变化，详情请咨询本公司相关技术人员。 Input rotating direction is of reverse to that of output and except the rotatin aio listed in the talble, the rotating ratio for the bulk products could be otherwise chosen. The allowed value for the output rotaing (as stated in the example) may varies according to the specific working condition and details could be consulted with our technicians.						

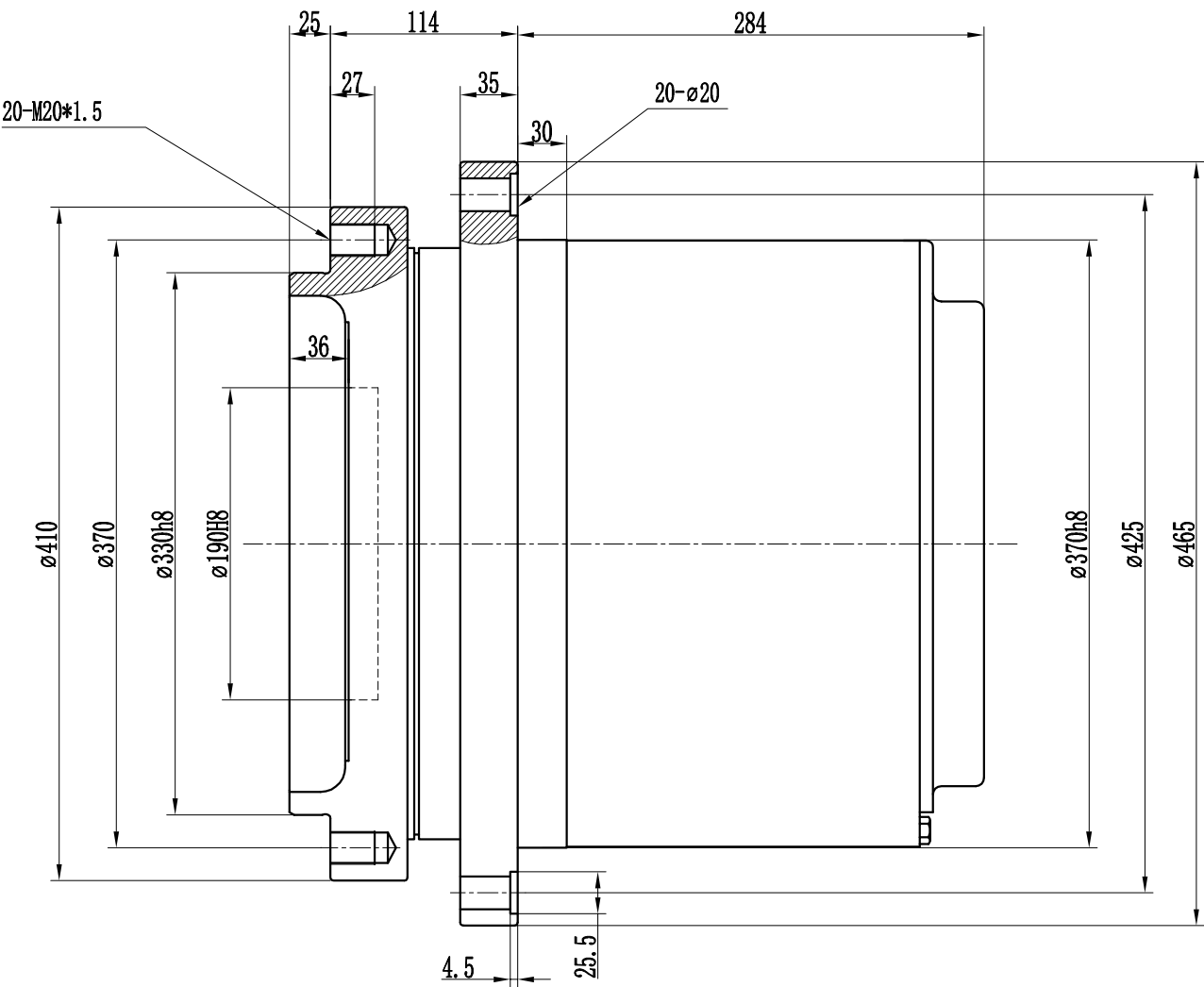
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60000	86.5 94.8 105.5 119.8 139.9 169.9	3600	725	1.8-5	A2FE80-A A2FE90-A	260
减速机输入转向与输出转向相反，除表中所列传动比外，对有批量的产品传动比可以另选。 输出转速允用值(样本中未规定)因实际工况而有所变化，详情请咨询本公司相关技术人员。 Input rotating direction is of reverse to that of output and except the rotatin aio listed in the talble, the rotating ratio for the bulk products could be otherwise chosen. The allowed value for the output rotaing (as stated in the example) may varies according to the specific working condition and details could be consulted with our technicians.						

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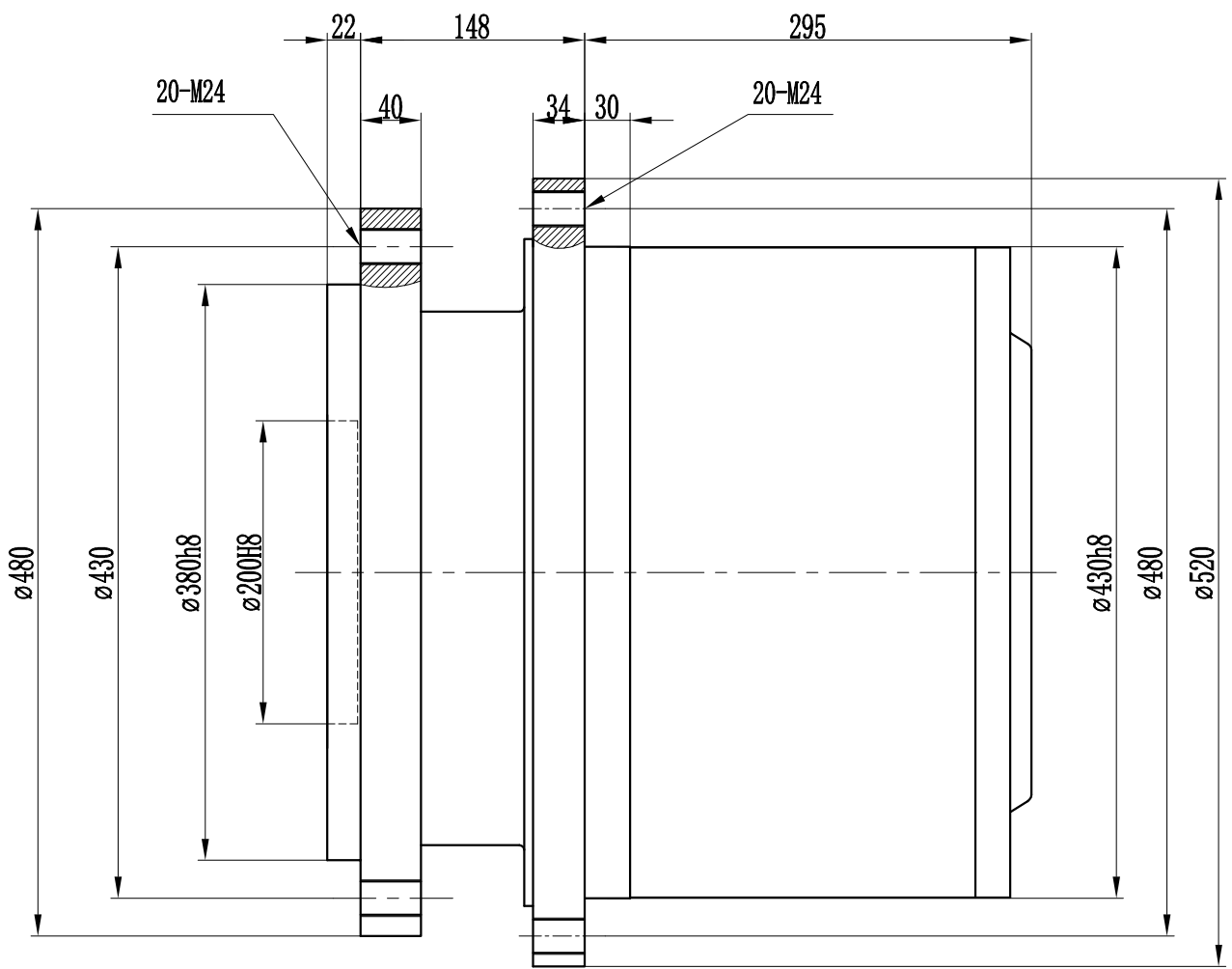


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60000	86.5 94.8 105.5 119.8 139.9 169.9	3600	725	1.8-5	A2FE80-A A2FE90-A	260

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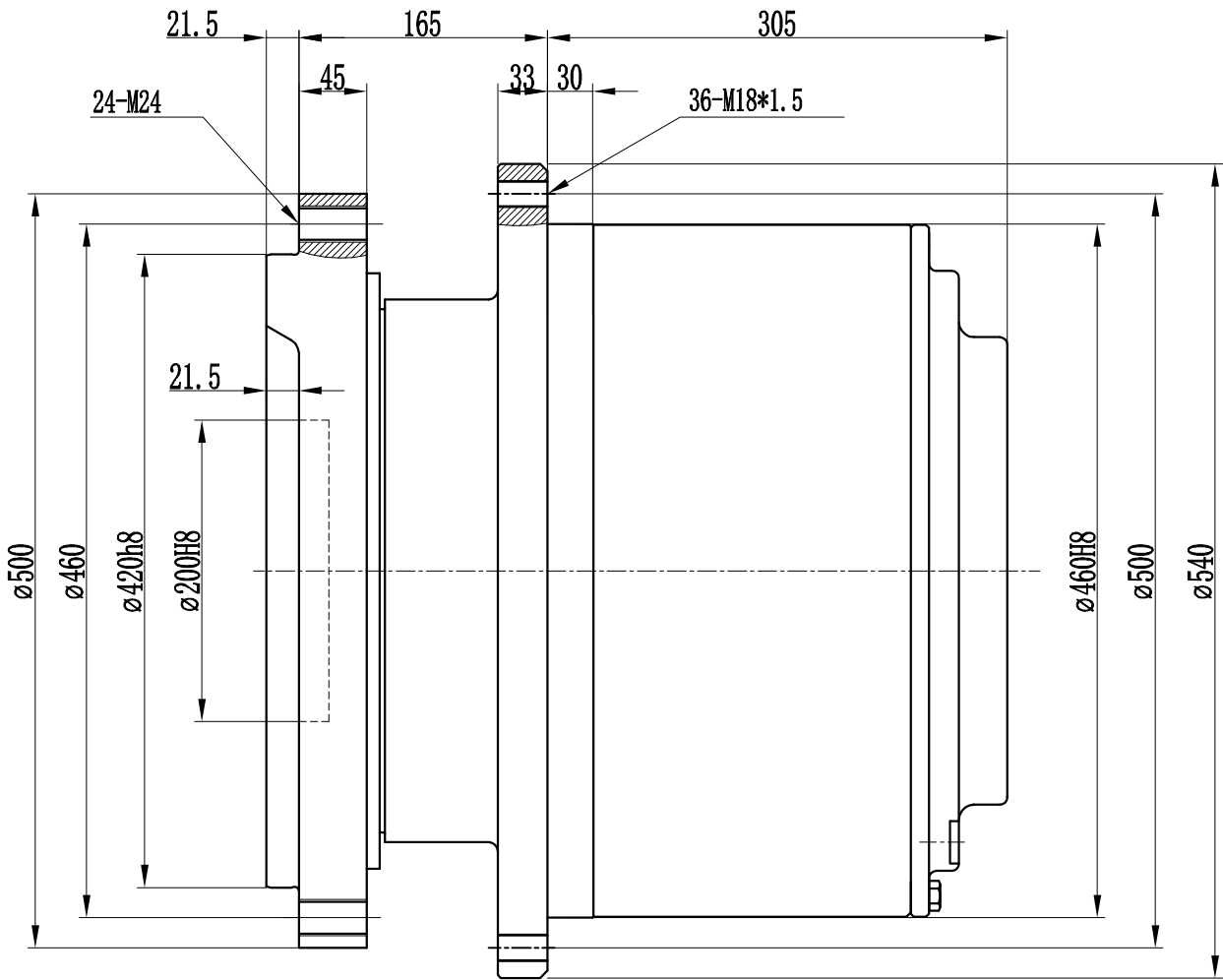


技术参数 TECHNICAL PARAMETER

最大输出扭矩 Max output torque Tmax N·M	传动比 Ratio	最大输入转速 Max input rotating rpm	制动扭矩 Brake torque TBmax N·M	制动器工作压力 Brake working pressure MPa	液压马达 Hydraulic motor	重量 Weight Kg
80000	76.7 99 110.9 126.9 149.9 185.4	3000	1000	1.8-5	A2FE107-Z A2FE125-Z A2FE160-Z A6VE160-Z	370

减速机输入转向与输出转向相反, 除表中所列传动比外, 对有批量的产品传动比可以另选。
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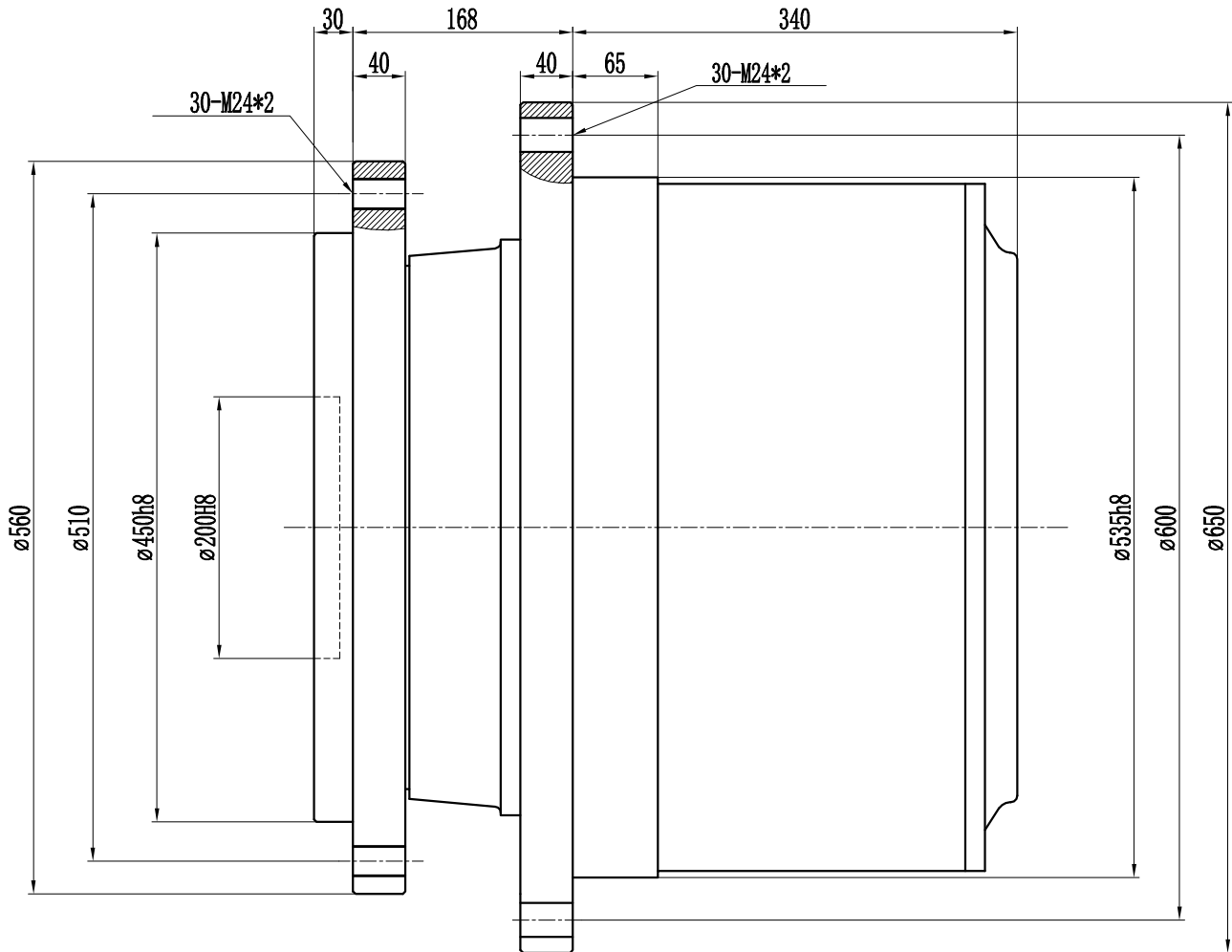
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技术参数 TECHNICAL PARAMETER

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110000	95.8 114.8 128.6 147.2 173.9 215	3000	1100	1.8-5	A2FE107-Z A2FE125-Z A2FE160-Z A6VE160-Z	410
减速机输入转向与输出转向相反, 除表中所列传动比外, 对有批量的产品传动比可以另选。 输出转速允用值(样本中未规定)因实际工况而有所变化, 详情请咨询本公司相关技术人员。 Input rotating direction is of reverse to that of output and except the rotatin aio listed in the talble, the rotating ratio for the bulk products could be otherwise chosen. The allowed value for the output rotaing (as stated in the example) may varies according to the specific working condition and details could be consulted with our technicians.						

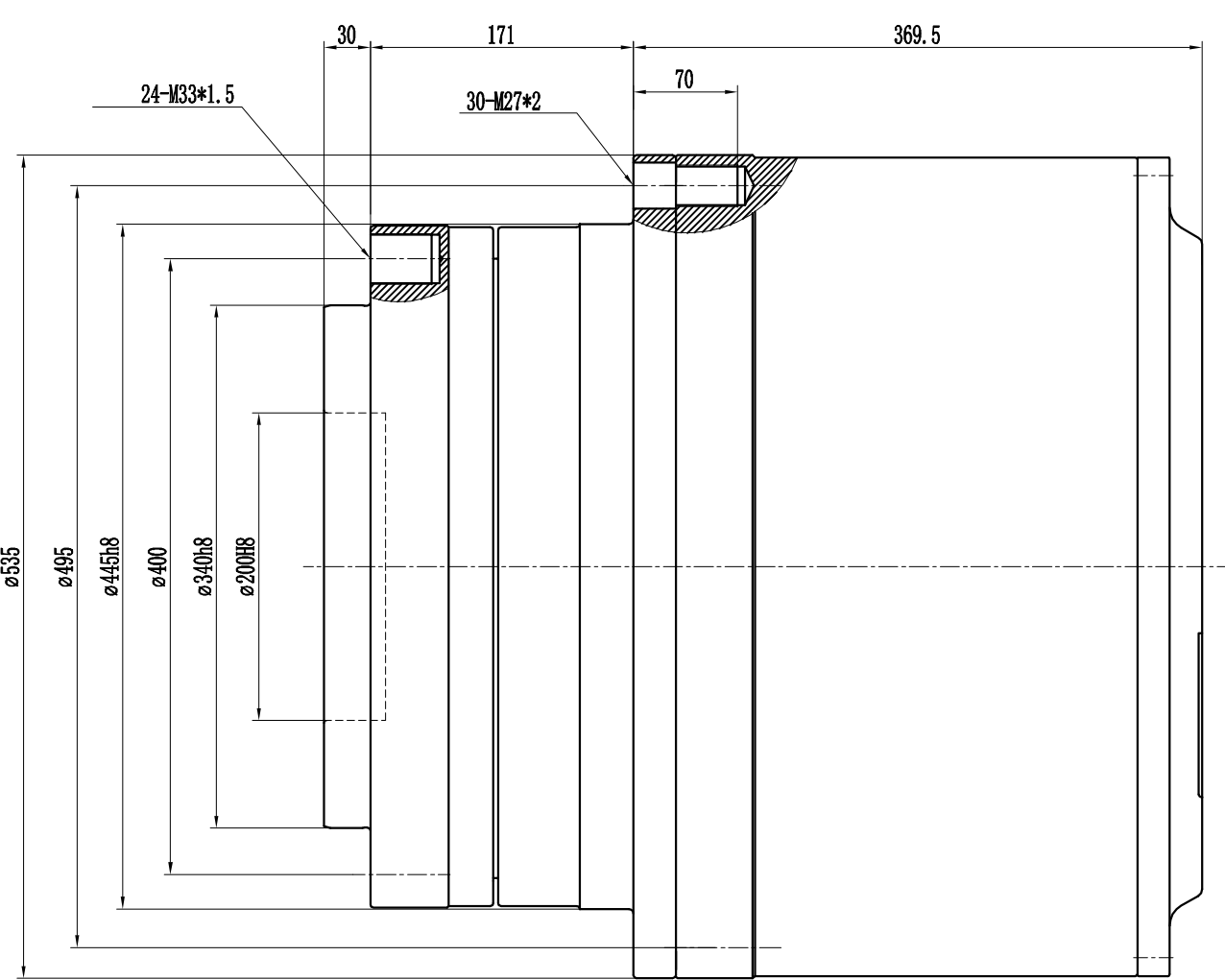
ET8160



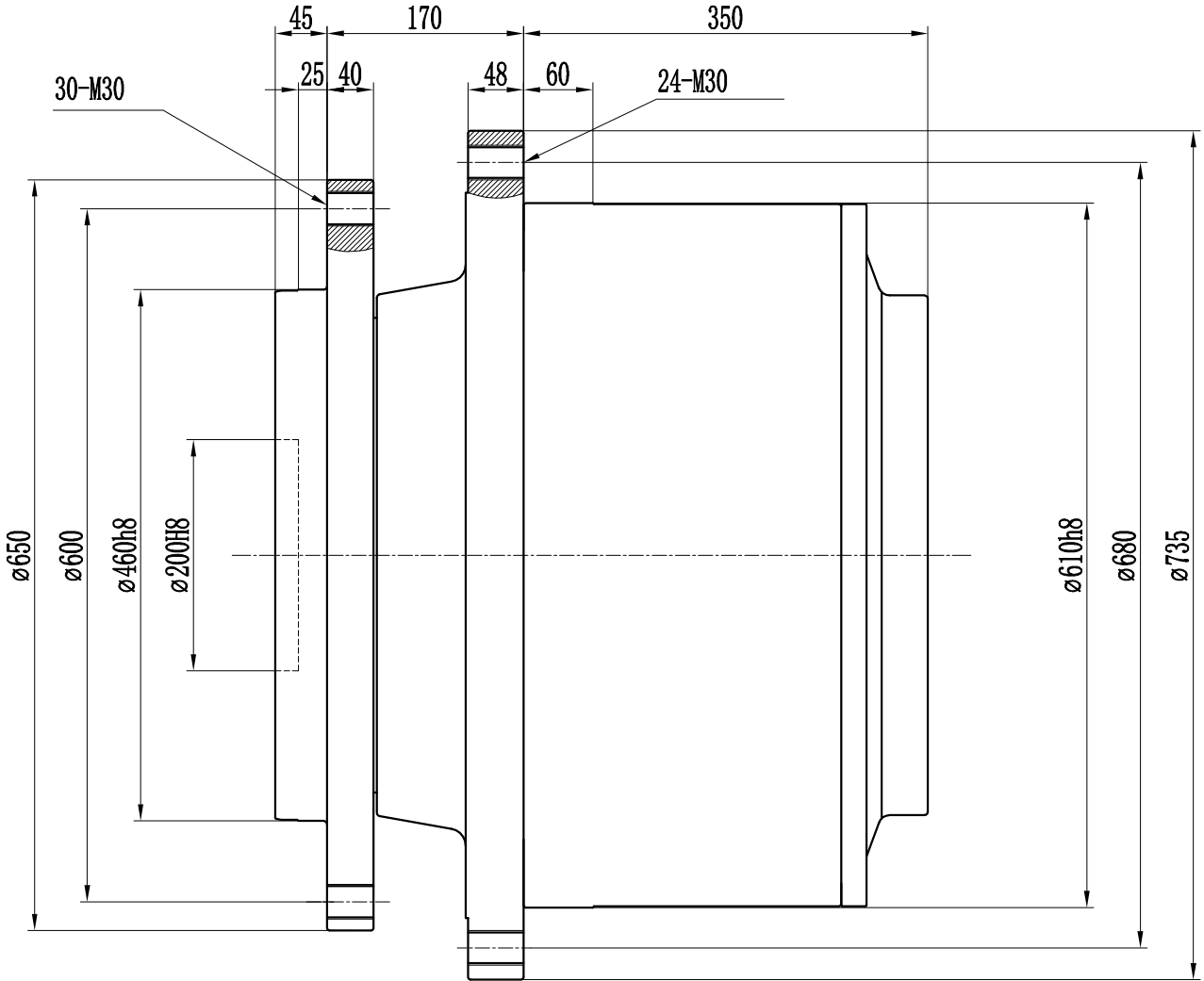
技术参数 TECHNICAL PARAMETER

最大输出扭矩 Max output torque Tmax N·M	传动比 Ratio	最大输入转速 Max input rotating rpm	制动扭矩 Brake torque TBmax N·M	制动器工作压力 Brake working pressure MPa	液压马达 Hydraulic motor	重量 Weight Kg
160000	133.1 145.8 161.8 182.6 210.8 251	3000	1150	1.8-5	A2FE160-Z A2FE180-Z A6VE160-Z	650
减速机输入转向与输出转向相反, 除表中所列传动比外, 对有批量的产品传动比可以另选。 输出转速允用值(样本中未规定)因实际工况而有所变化, 详情请咨询本公司相关技术人员。 Input rotating direction is of reverse to that of output and except the rotatin aio listed in the talble, the rotating ratio for the bulk products could be otherwise chosen. The allowed value for the output rotaing (as stated in the example) may varies according to the specific working condition and details could be consulted with our technicians.						

ET8160-T



ET8220



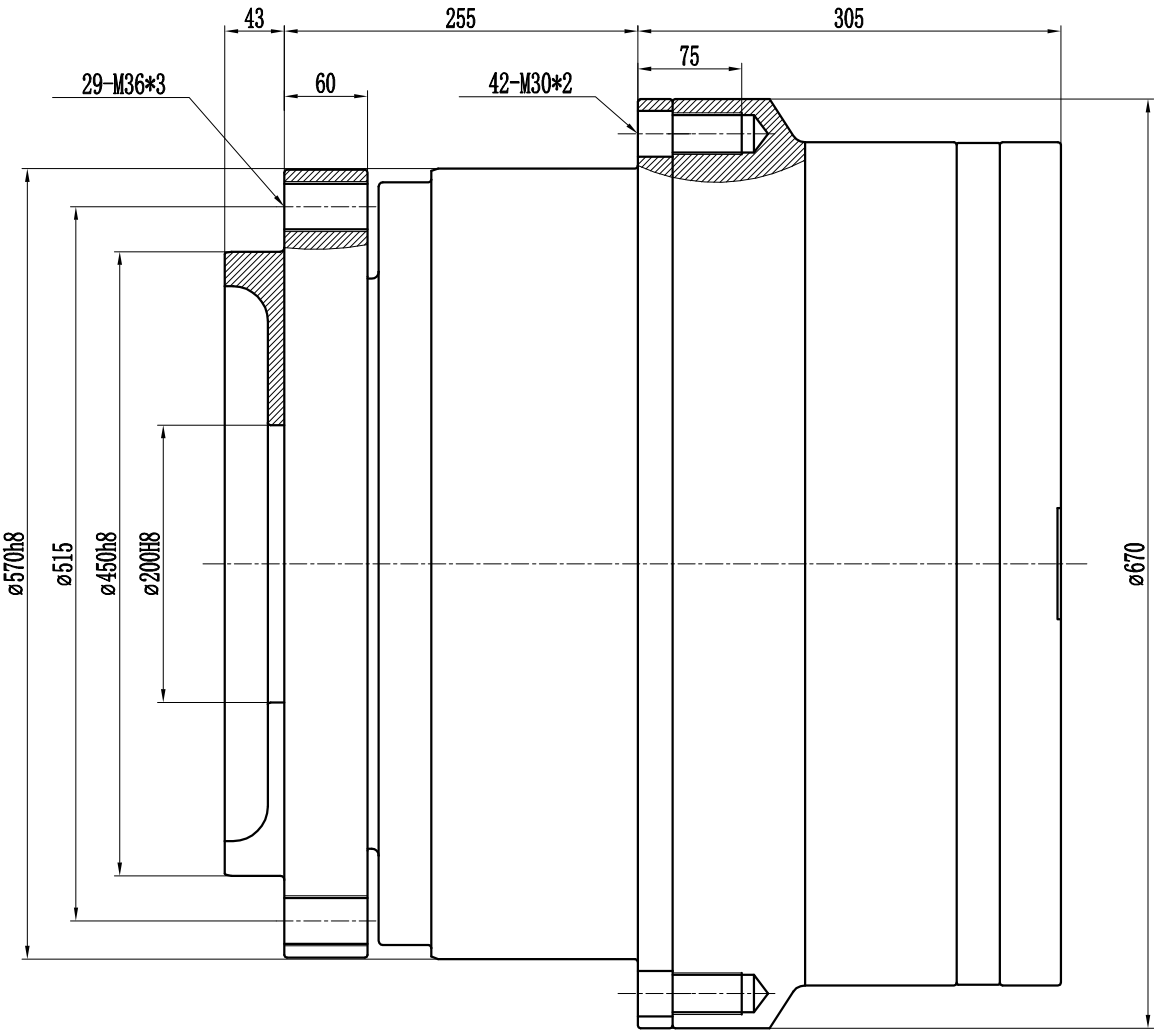
技术参数 TECHNICAL PARAMETER

最大输出扭矩 Max output torque Tmax N·M	传动比 Ratio	最大输入转速 Max input rotating rpm	制动扭矩 Brake torque TBmax N·M	制动器工作压力 Brake working pressure MPa	液压马达 Hydraulic motor	重量 Weight Kg
160000	251	3000	1150	1.8-5	A2FE160-Z A6VE160-Z	680
减速机输入转向与输出转向相反, 除表中所列传动比外, 对有批量的产品传动比可以另选。 输出转速允用值(样本中未规定)因实际工况而有所变化, 详情请咨询本公司相关技术人员。 Input rotating direction is of reverse to that of output and except the rotatin aio listed in the talble, the rotating ratio for the bulk products could be otherwise chosen. The allowed value for the output rotaing (as stated in the example) may varies according to the specific working condition and details could be consulted with our technicians.						

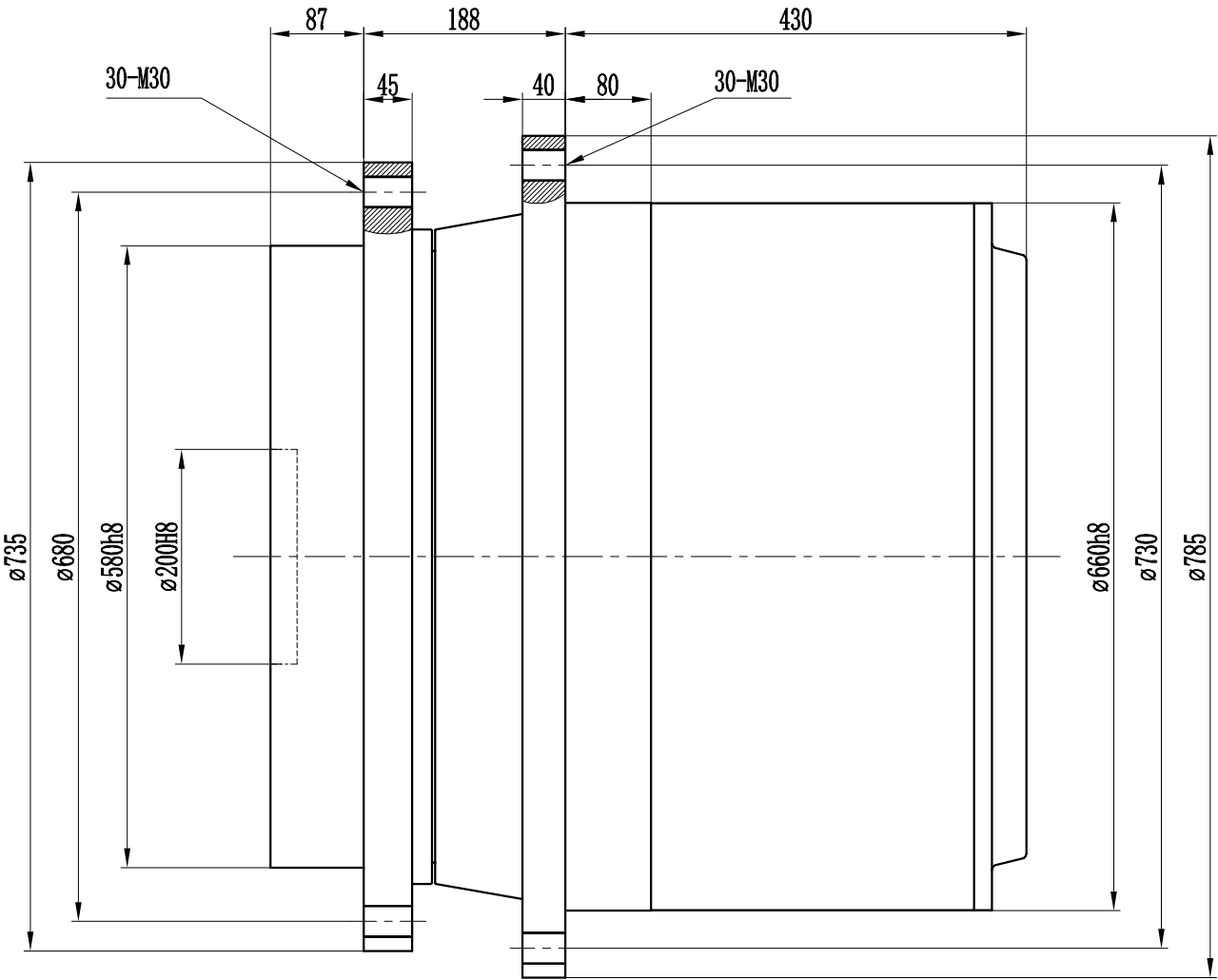
技术参数 TECHNICAL PARAMETER

最大输出扭矩 Max output torque Tmax N·M	传动比 Ratio	最大输入转速 Max input rotating rpm	制动扭矩 Brake torque TBmax N·M	制动器工作压力 Brake working pressure MPa	液压马达 Hydraulic motor	重量 Weight Kg
220000	188.9 246.1 293 365	3000	1200	1.8-5	A2FE160-Z A2FE180-Z A6VE160-Z	850
减速机输入转向与输出转向相反, 除表中所列传动比外, 对有批量的产品传动比可以另选。 输出转速允用值(样本中未规定)因实际工况而有所变化, 详情请咨询本公司相关技术人员。 Input rotating direction is of reverse to that of output and except the rotatin aio listed in the talble, the rotating ratio for the bulk products could be otherwise chosen. The allowed value for the output rotaing (as stated in the example) may varies according to the specific working condition and details could be consulted with our technicians.						

ET8220-T



ET8330



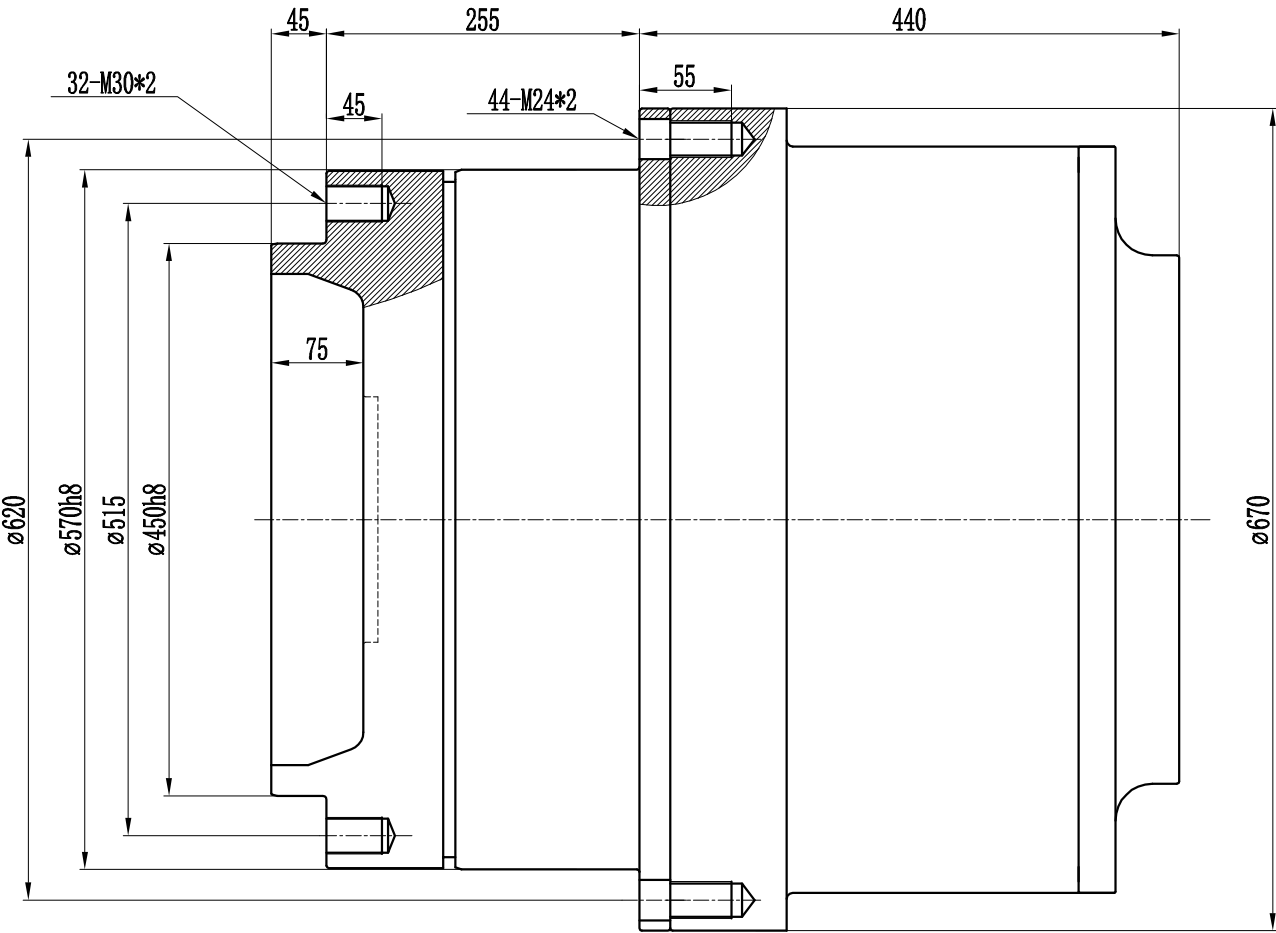
技术参数 TECHNICAL PARAMETER

最大输出扭矩 Max output torque Tmax N·M	传动比 Ratio	最大输入转速 Max input rotating rpm	制动扭矩 Brake torque TBmax N·M	制动器工作压力 Brake working pressure MPa	液压马达 Hydraulic motor	重量 Weight Kg
220000	365	3000	1200	1.8-5	A2FE160-Z A6VE160-Z	880
减速机输入转向与输出转向相反, 除表中所列传动比外, 对有批量的产品传动比可以另选。 输出转速允用值(样本中未规定)因实际工况而有所变化, 详情请咨询本公司相关技术人员。 Input rotating direction is of reverse to that of output and except the rotatin aio listed in the talble, the rotating ratio for the bulk products could be otherwise chosen. The allowed value for the output rotaing (as stated in the example) may varies according to the specific working condition and details could be consulted with our technicians.						

技术参数 TECHNICAL PARAMETER

最大输出扭矩 Max output torque Tmax N·M	传动比 Ratio	最大输入转速 Max input rotating rpm	制动扭矩 Brake torque TBmax N·M	制动器工作压力 Brake working pressure MPa	液压马达 Hydraulic motor	重量 Weight Kg
330000	168.9 209.9 252 302.4	2500	2500	1.8-5	A2FE250-Z A6VE250-Z	1250
减速机输入转向与输出转向相反, 除表中所列传动比外, 对有批量的产品传动比可以另选。 输出转速允用值(样本中未规定)因实际工况而有所变化, 详情请咨询本公司相关技术人员。 Input rotating direction is of reverse to that of output and except the rotatin aio listed in the talble, the rotating ratio for the bulk products could be otherwise chosen. The allowed value for the output rotaing (as stated in the example) may varies according to the specific working condition and details could be consulted with our technicians.						

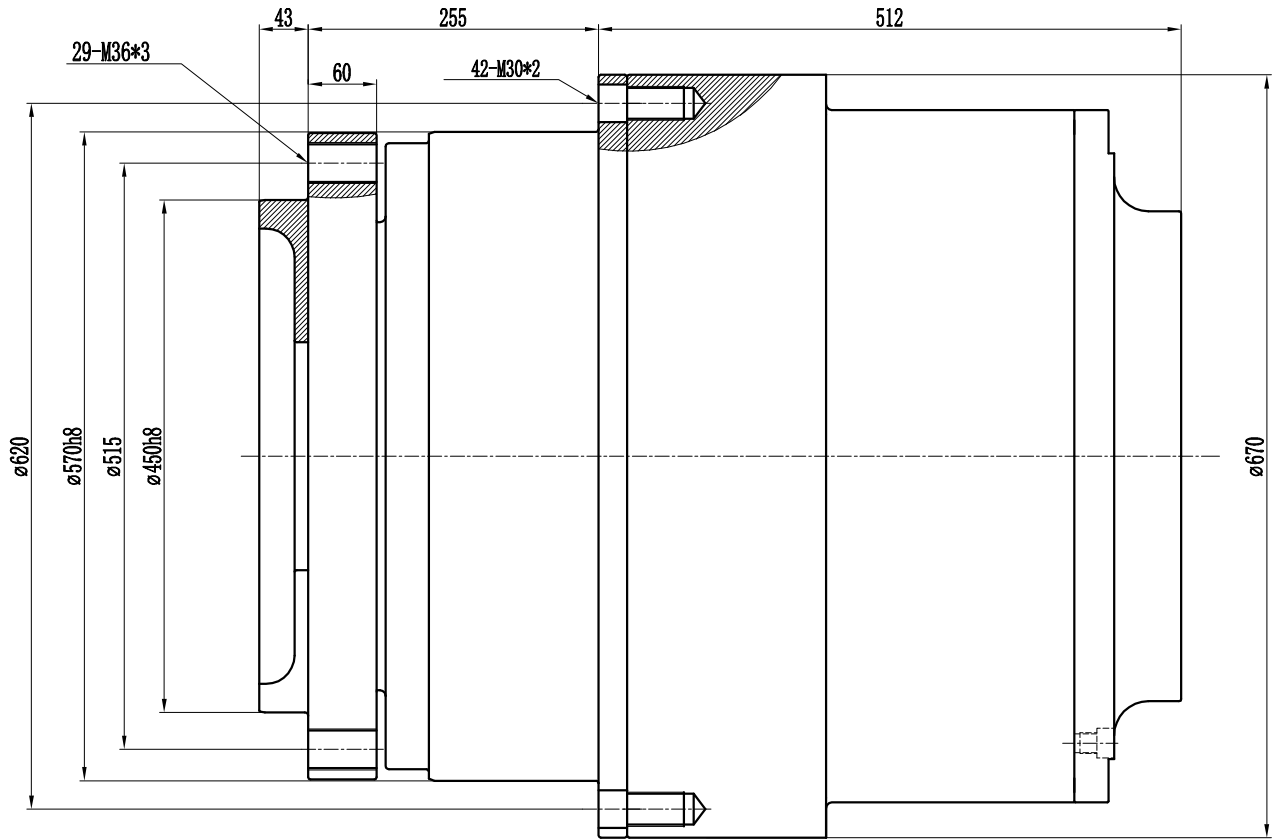
ET8330-T



技术参数 TECHNICAL PARAMETER

最大输出扭矩 Max output torque Tmax N·M	传动比 Ratio	最大输入转速 Max input rotating rpm	制动扭矩 Brake torque TBmax N·M	制动器工作压力 Brake working pressure MPa	液压马达 Hydraulic motor	重量 Weight Kg
330000	302.4	3500	2500	1.8-5	A2FE250-Z A6VE250-Z	1250
减速机输入转向与输出转向相反, 除表中所列传动比外, 对有批量的产品传动比可以另选。 输出转速允用值(样本中未规定)因实际工况而有所变化, 详情请咨询本公司相关技术人员。 Input rotating direction is of reverse to that of output and except the rotatin aio listed in the talble, the rotating ratio for the bulk products could be otherwise chosen. The allowed value for the output rotaing (as stated in the example) may varies according to the specific working condition and details could be consulted with our technicians.						

ET8450

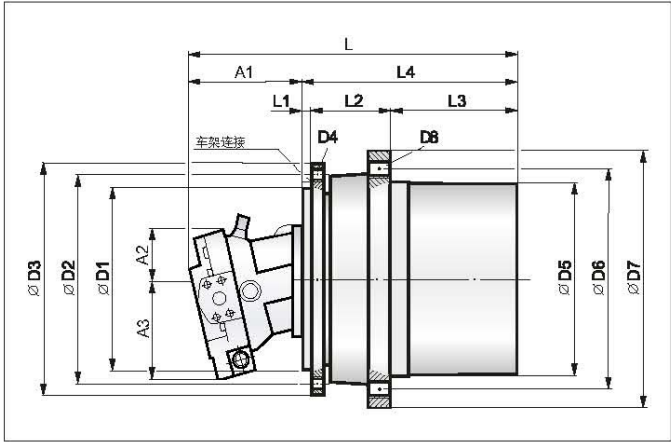


技术参数 TECHNICAL PARAMETER

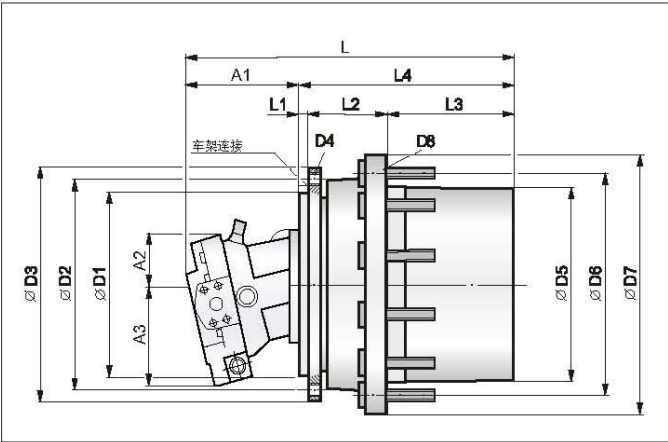
最大输出扭矩 Max output torque Tmax N·M	传动比 Ratio	最大输入转速 Max input rotating rpm	制动扭矩 Brake torque TBmax N·M	制动器工作压力 Brake working pressure MPa	液压马达 Hydraulic motor	重量 Weight Kg
450000	421.7 653	2500	3500	1.8-5	A2FE250-Z A6VE250-Z	1350
减速机输入转向与输出转向相反, 除表中所列传动比外, 对有批量的产品传动比可以另选。 输出转速允用值(样本中未规定)因实际工况而有所变化, 详情请咨询本公司相关技术人员。 Input rotating direction is of reverse to that of output and except the rotatin aio listed in the talble, the rotating ratio for the bulk products could be otherwise chosen. The allowed value for the output rotaing (as stated in the example) may varies according to the specific working condition and details could be consulted with our technicians.						

ET8000系列

尺寸



型号T（带螺纹孔）



型号L（带轮毂螺栓）

额定型号	型号	D1	D2	D3	D4	D5	D6 mm	D7	D8	L	L1	L2	L3	L4	A1	A2	A3
8130 E	T	250	290	320	16xM20	280	305	330	16xM16	1) ¹⁾	14	82	166	262	2) ²⁾	2) ²⁾	2) ²⁾
8130 E	L	270	300	325	18xM16	280	335	372	10xM ³⁾	1) ¹⁾	14	90	158	262	2) ²⁾	2) ²⁾	2) ²⁾
8140 F	T	240	285	320	20xM20	280	305	330	20xM16	1) ¹⁾	14	82	195.5	291.5	2) ²⁾	2) ²⁾	2) ²⁾
8144 E	TL	300	340	374	16xM20x1.5	350	400	435	12xM ⁶⁾	1) ¹⁾	14	90	215	349	2) ²⁾	2) ²⁾	2) ²⁾
8145 F	T	270	310	350	16xM20	320	350	380	20xM16x1.5	1) ¹⁾	10	90	200	300	2) ²⁾	2) ²⁾	2) ²⁾
8150 E	T	330	370	410	20xM20	360	400	440	16xM20	1) ¹⁾	12	90	252.5	354.5	2) ²⁾	2) ²⁾	2) ²⁾
8150 E	L	330	370	410	19xM20	365	415	455	12xM ⁶⁾	1) ¹⁾	12	90	252.5	354.5	2) ²⁾	2) ²⁾	2) ²⁾
8160 F	T	330	370	410	20xM20	360	400	440	16xM20	1) ¹⁾	14	114	254	382	2) ²⁾	2) ²⁾	2) ²⁾
8170 F	T	330	370	410	20xM20x1.5	400	450	490	20xM20x1.5	1) ¹⁾	14	90	284	388	2) ²⁾	2) ²⁾	2) ²⁾
8180 E	T	380	430	480	20xM24	430	480	520	24xM24	1) ¹⁾	14.5	148	229.5	392	2) ²⁾	2) ²⁾	2) ²⁾
8185 F	T	380	430	480	20xM24	430	480	520	20xM24	1) ¹⁾	23	148	283.5	464.5	2) ²⁾	2) ²⁾	2) ²⁾
8190 F	T	420	460	500	24xM24	460	500	540	36xM18x1.5	1) ¹⁾	21.5	165	294	480.5	2) ²⁾	2) ²⁾	2) ²⁾

“尺寸”页中所给的值适用于标准连接尺寸。对于不同的马达/减速机组合则需要附加马达座与减速机的连接尺寸。
 其他尺寸可按要求供货

1) 与液压马达型号相关

2) 与液压马达型号及控制方式相关

3) ET 8130 E
 10xM22x1,5 长度=62 mm
 10xM22x1.5长度=67 mm

4) ET 8144E/ET 8150 E
 12xM22x1.5 长度=50 mm

技术参数

型号	额定 输出扭矩 Nm	传动比 i	静态制动力矩 Nm	重量约为 无马达 kg	相匹配的液压马达
8130 E ¹⁾	20000	26.0·32.3·39.2·50.6	2)	85	A2FE 45·56·63/ A6VE 55·60
8140 F	30000	90.4·102.8·120.4·137.1	2)	95	A2FE 45·56·63/ A6VE 55·60
8144 E ⁶⁾	30000	23.0·26.4·31.3	2)	180	A6VE 115·160·170
8145 F	36000	115.0·138.8·161.0	2)	120	A2FE45·56·63·80·90/ A6VE 55·60·80
8150 E ⁶⁾	42000	32.3·35.4·41.4·50.6	2)	200	A2FE 80·90/ A6VE 80·107·115·160
8160 F	52000	73.8·100.5·116.1·138.9	2)	240	A2FE80·90·107·125/ A6VE 80·85·107·115
8170 F	70000	95.0·107.3·124.1·140.5	2)	250	A2FE 107·125/ A6VE 107·115
8180 E	70000	44.1·50.6·54.7	2)	330	A6VE 160·170·200·215
8185 F	100000	76.4·98.7·110.0·126.6· 147.0·185.1	2)	400	A2FE 107·125·160·180/ A6VE 107·115·160·170
8190 F	130000	93.8·121.1·140.1·167.9 ·209.0	2)	460	A2FE 107·125·160·180/ A6VE 107·115·160·170

1)该型号可配备动态制动器(技术上并非能够配合所有适配的马达)

2)与液压马达型号相关

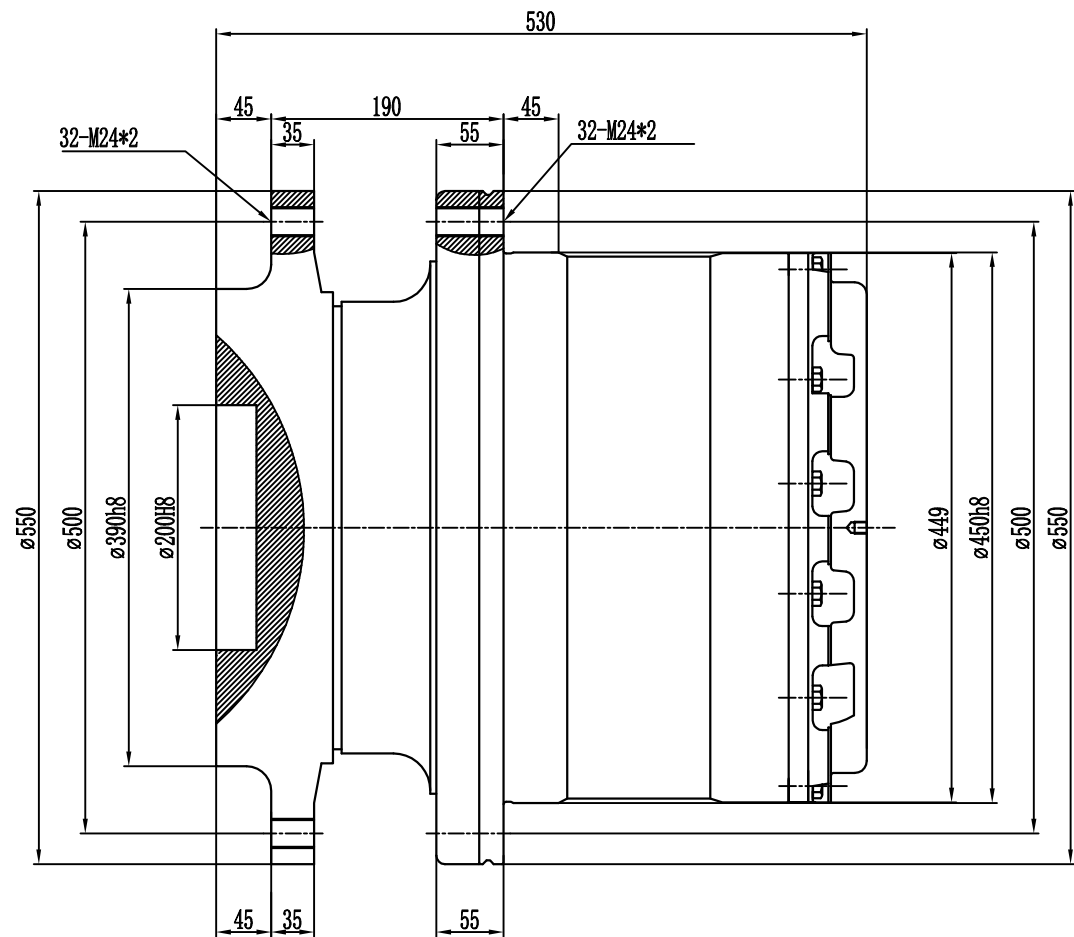
3)设备特有

4)马达旋转180°安装,使马达连接朝下。以避免马达法兰与制动器端口干涉。

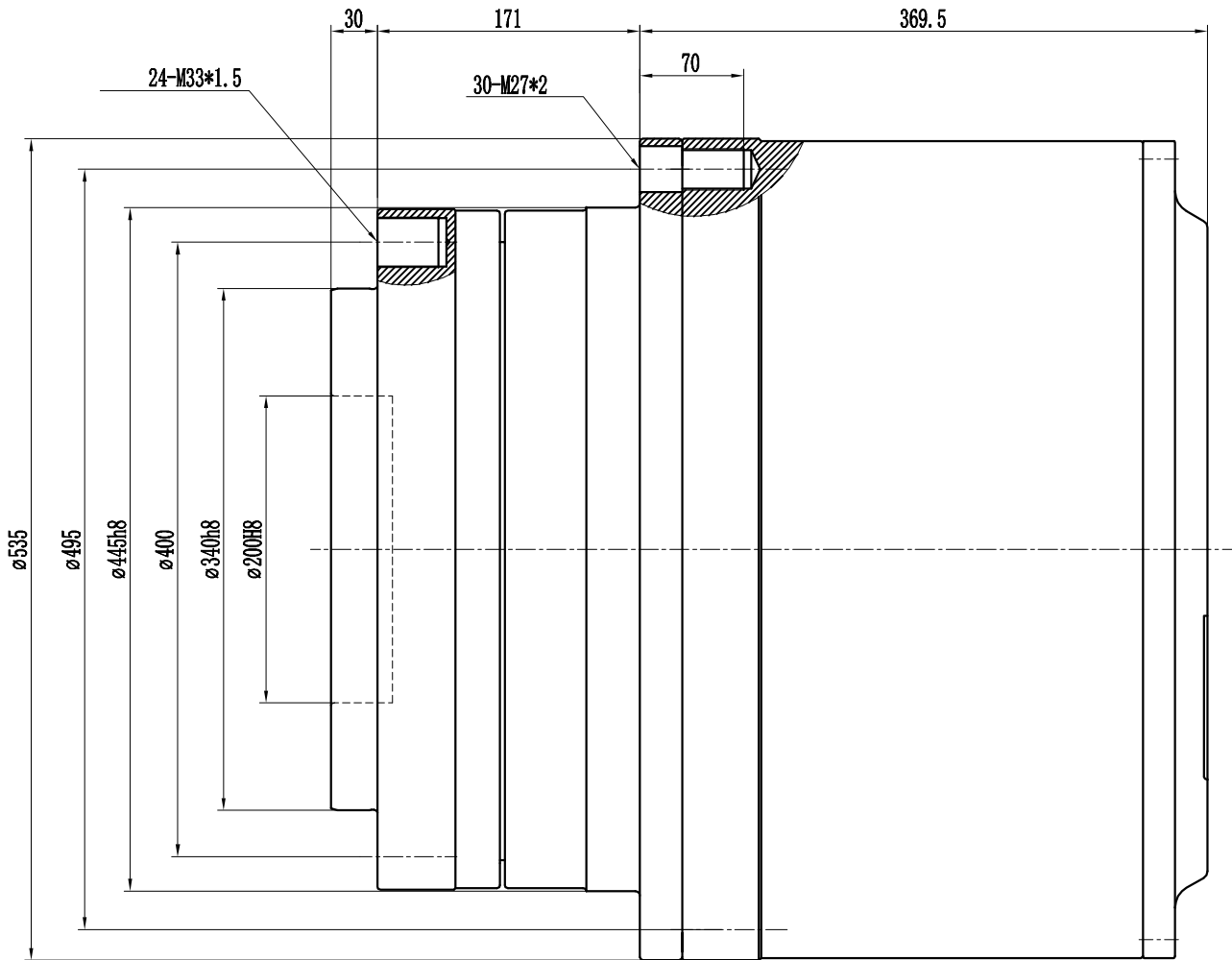
5)配备制动器的减速机需要连接到有特殊法兰结构的马达上。

6)仅限于与动态制动配合使用。

ET9130



ET9180



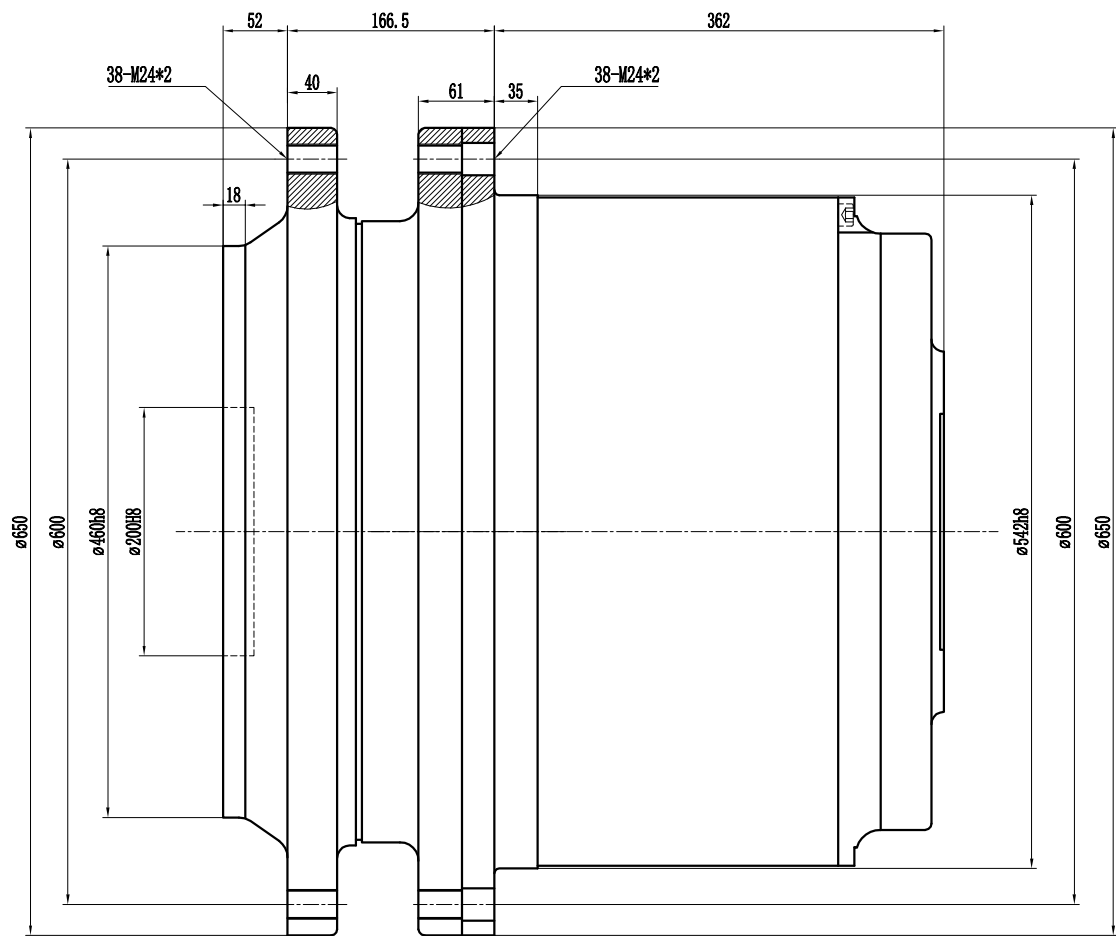
技术参数 TECHNICAL PARAMETER

最大输出扭矩 Max output torque Tmax N·M	传动比 Ratio	最大输入转速 Max input rotating rpm	制动扭矩 Brake torque TBmax N·M	制动器工作压力 Brake working pressure MPa	液压马达 Hydraulic motor	重量 Weight Kg
130000	115 123 167 206	3500	800	1.8-5	107 125 160 180	450
减速机输入转向与输出转向相反, 除表中所列传动比外, 对有批量的产品传动比可以另选。 输出转速允用值(样本中未规定)因实际工况而有所变化, 详情请咨询本公司相关技术人员。 Input rotating direction is of reverse to that of output and except the rotatin aio listed in the talbe, the rotating ratio for the bulk products could be otherwise chosen. The allowed value for the output rotaing (as stated in the example) may varies according to the specific working condition and details could be consulted with our technicians.						

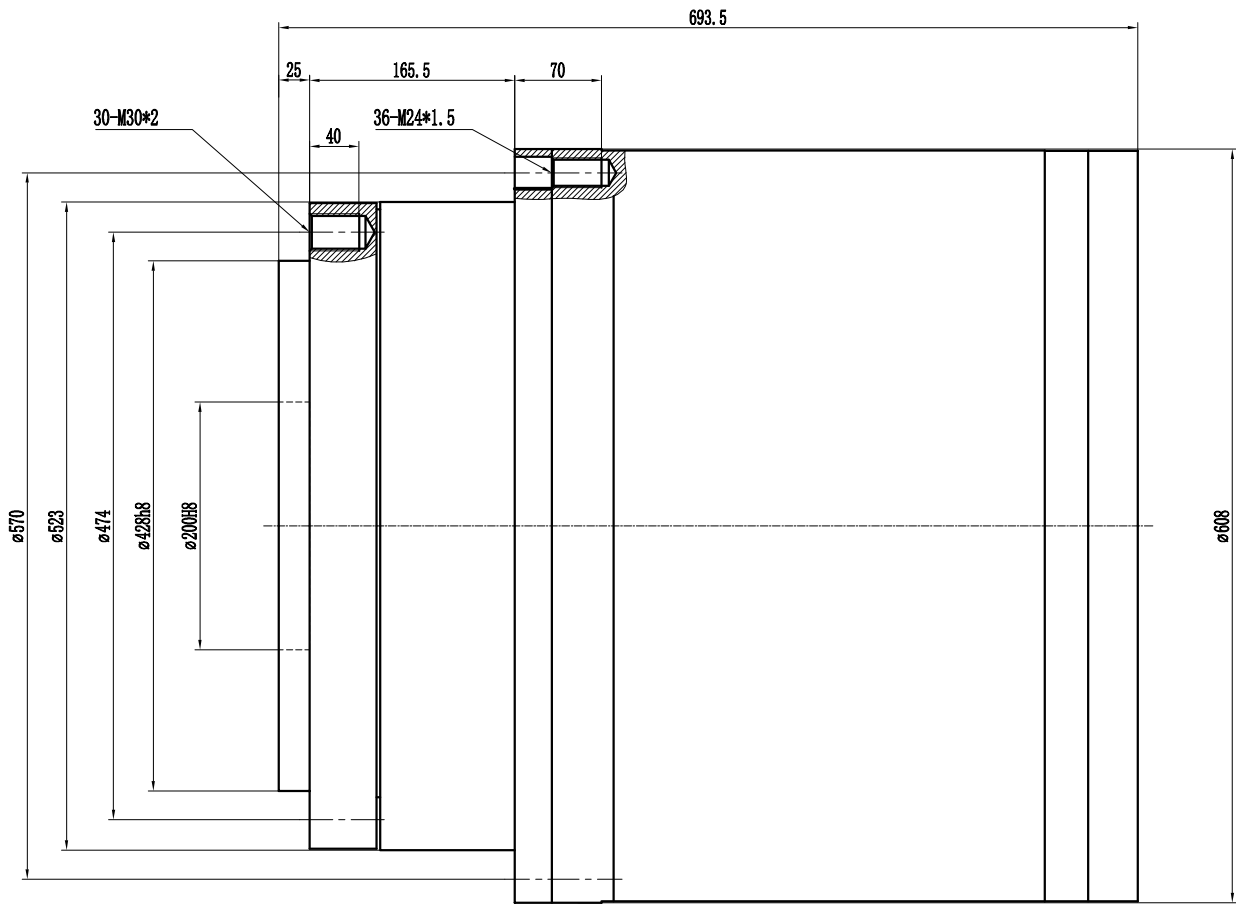
技术参数 TECHNICAL PARAMETER

最大输出扭矩 Max output torque Tmax N·M	传动比 Ratio	最大输入转速 Max input rotating rpm	制动扭矩 Brake torque TBmax N·M	制动器工作压力 Brake working pressure MPa	液压马达 Hydraulic motor	重量 Weight Kg
180000	206 281	3500	1200	1.8-5	160 180	650
减速机输入转向与输出转向相反, 除表中所列传动比外, 对有批量的产品传动比可以另选。 输出转速允用值(样本中未规定)因实际工况而有所变化, 详情请咨询本公司相关技术人员。 Input rotating direction is of reverse to that of output and except the rotatin aio listed in the talbe, the rotating ratio for the bulk products could be otherwise chosen. The allowed value for the output rotaing (as stated in the example) may varies according to the specific working condition and details could be consulted with our technicians.						

ET9220



ET9260



技术参数 TECHNICAL PARAMETER

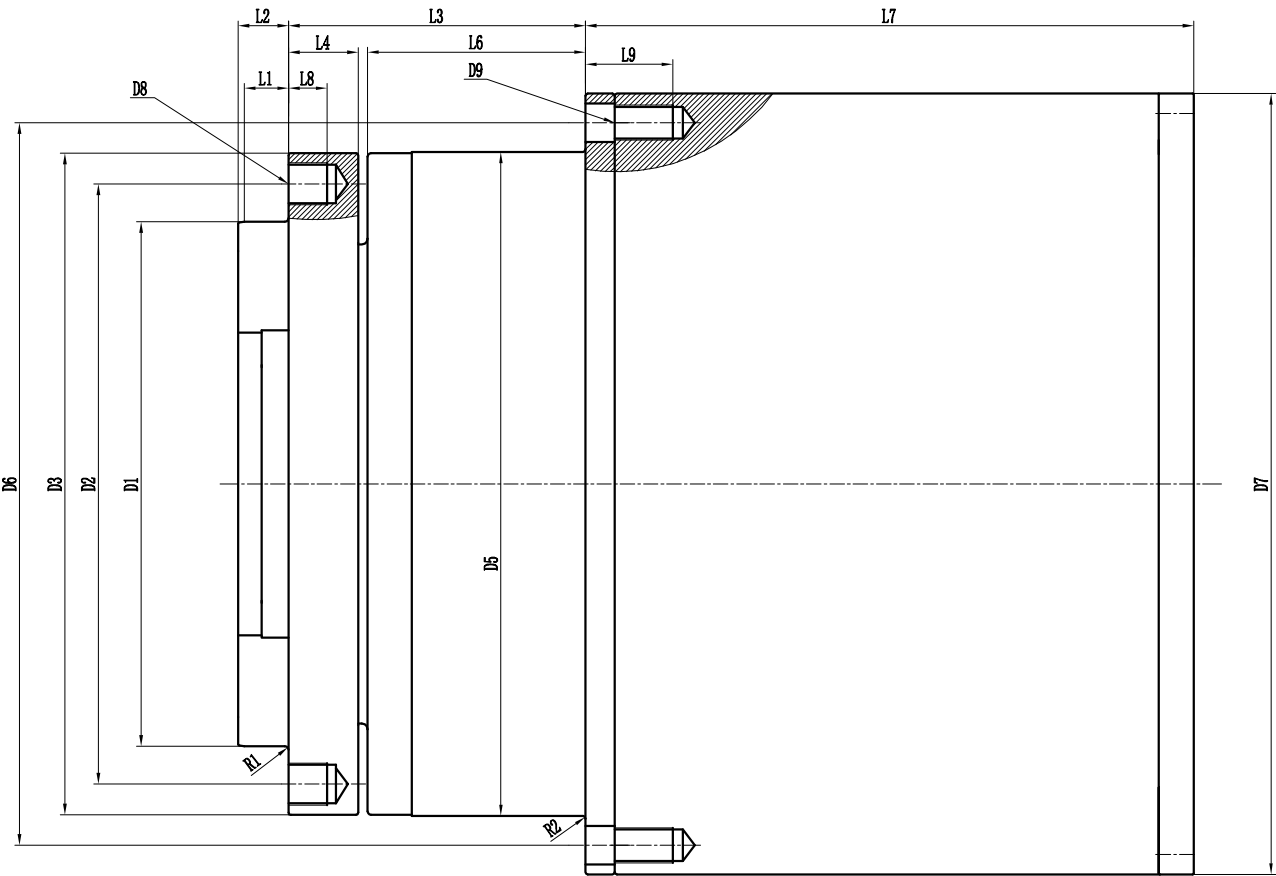
最大输出扭矩 Max output torque Tmax N·M	传动比 Ratio	最大输入转速 Max input rotating rpm	制动扭矩 Brake torque TBmax N·M	制动器工作压力 Brake working pressure MPa	液压马达 Hydraulic motor	重量 Weight Kg
220000	165 190 248 345	3000	1200	1.8-5	160 180	750
减速机输入转向与输出转向相反, 除表中所列传动比外, 对有批量的产品传动比可以另选。 输出转速允用值(样本中未规定)因实际工况而有所变化, 详情请咨询本公司相关技术人员。 Input rotating direction is of reverse to that of output and except the rotatin aio listed in the talble, the rotating ratio for the bulk products could be otherwise chosen. The allowed value for the output rotaing (as stated in the example) may varies according to the specific working condition and details could be consulted with our technicians.						

技术参数 TECHNICAL PARAMETER

最大输出扭矩 Max output torque Tmax N·M	传动比 Ratio	最大输入转速 Max input rotating rpm	制动扭矩 Brake torque TBmax N·M	制动器工作压力 Brake working pressure MPa	液压马达 Hydraulic motor	重量 Weight Kg
260000	245 251 345	3000	1200	1.8-5	160 180	900
减速机输入转向与输出转向相反, 除表中所列传动比外, 对有批量的产品传动比可以另选。 输出转速允用值(样本中未规定)因实际工况而有所变化, 详情请咨询本公司相关技术人员。 Input rotating direction is of reverse to that of output and except the rotatin aio listed in the talble, the rotating ratio for the bulk products could be otherwise chosen. The allowed value for the output rotaing (as stated in the example) may varies according to the specific working condition and details could be consulted with our technicians.						

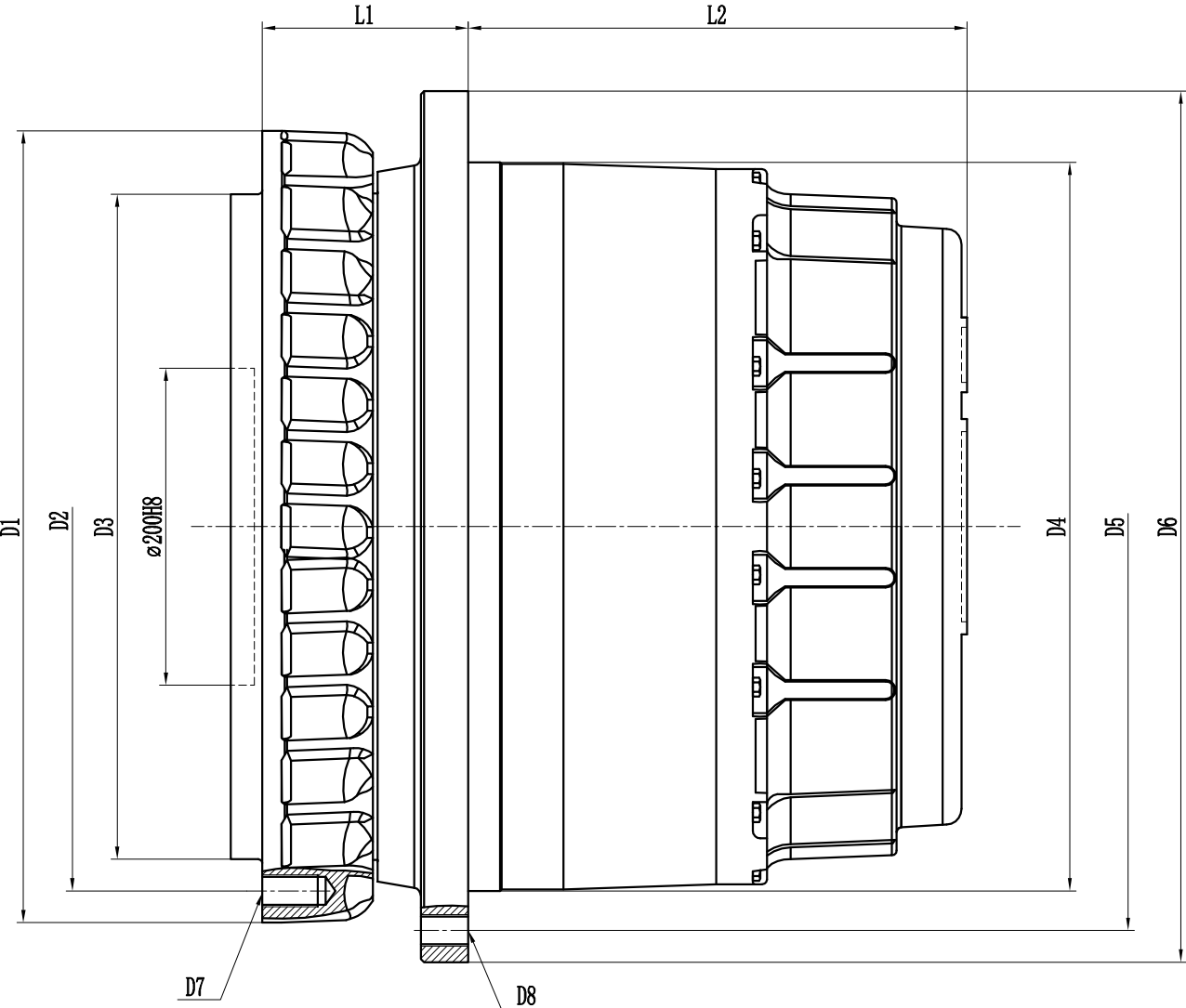
ET9000系列

技术参数 TECHNICAL PARAMETER



型号 Model	ET9440	ET9560	ET9620	ET9650	ET9700
减速比 Ratio i	352 414 555 637	357 739	249 293 328 462	682	377
最大输出扭矩 Max Output torque N•M	440000	560000	620000	650000	700000
制动扭矩 Brake torque TBmax N•M	1000	1000	1200	1200	1300
液压马达 Motor	160 250	160	2*250 500	2*215	2*250 500
重量 Weight Kg	1300	2000	3000	1700	3400
L1 mm	40	40	30	40	30
L2 mm	43	43	33	43	33
L3 mm	255	255	405	255	405
L4 mm	40	45	96	89	96
L5 mm	—	—	—	—	—
L6 mm	25	120	306	117	306
L7 mm	—	—	401	—	526
L8 mm	40	45	50	45	50
L9 mm	70	70	65	70	65
R1 mm	4	4	4	4	4
R2 mm	4	4	5	4	5
D1 mm	450	450	668	450	668
D2 mm	515	515	726	515	726
D3 mm	569	569	779	563	779
D4 mm	669	763	—	—	—
D5 mm	570	570	782	570	780
D6 mm	620	620	830	620	850
D7 mm	670	670	880	763	900
D8 mm	M36*3	M36*1.5	M36*1.5	M36*1.5	M36*1.5
D9 mm	M30*3	M30*1.5	M30*1.5	M30*1.5	M36*1.5
Qty D8/D9	30/30	29/42	30/45	29/42	30/45

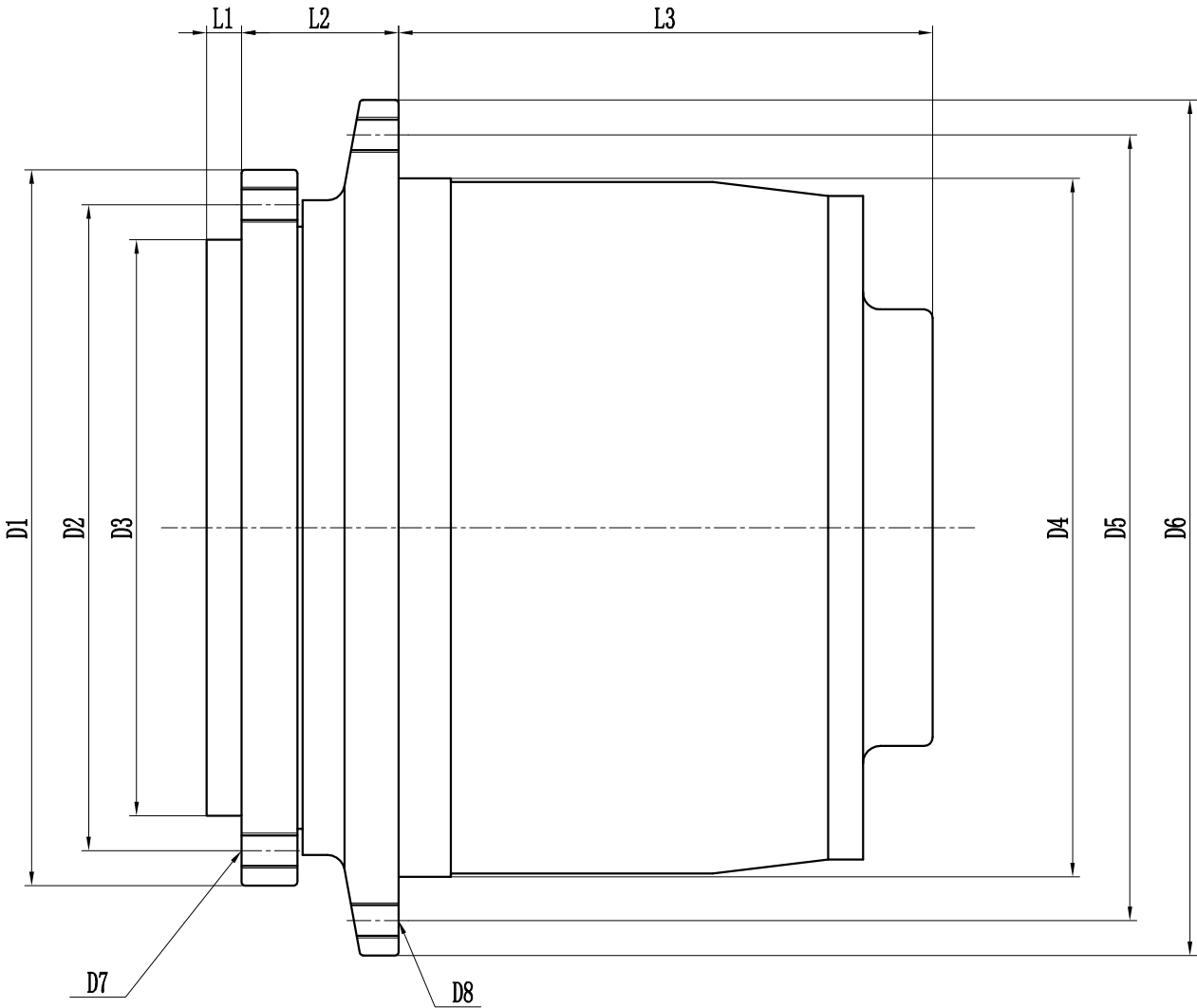
ET7000系列



技术参数 TECHNICAL PARAMETER

型号 Model	ET7710	ET7711	ET7713	ET7715	ET7716	ET7717	ET7718
减速比 Ratio i	55-123	89-173	108 142	108 156	83 113 175	131-210	207
最大输出扭矩 Max Output torque N·M	36000	45000	60000	85000	100000	130000	180000
制动扭矩 Brake torque TBmax N·M	600	800	800	1000	1200	1200	1200
液压马达 Motor	56 63	80 90	80 90	107 125	125 160	160 180	160 180
重量 Weight Kg	200	270	310	350	400	630	750
L1 mm	91	110	110	130	165	170	170
L2 mm	243	265	280	315	308	350	350
D1 mm	375	425	425	500	500	570	570
D2 mm	340	325	325	460	460	510	510
D3 mm	300	290	290	420	420	450	450
D4 mm	350	410	410	460	460	560	576
D5 mm	400	455	455	510	500	610	626
D6 mm	435	490	490	550	550	660	670
D7 mm	M20*2.5	M20*2.5	M20*2.5	M20*2.5	M24*3	M30*3.5	M24*3
D8 mm	M20*2.5	M20*2.5	M20*2.5	M20*2.5	M18*1.5	M24*3	M24*3
Qty D7/D8	16/16	24/24	24/24	24/24	24/36	20/24	30/20

ET3000系列



技术参数 TECHNICAL PARAMETER

型号 Model	ET3200	ET3300	ET3500	ET3700	ET3850	ET31100
减速比 Ratio i	81.5 92.3 107.5 130.3	81.4 92.2 107.4 130.1	105.8 119.9 139.5 169	119.5 135.3 157.5 190.7	94 108.9	133-210
最大输出扭矩 Max Output torque N·M	25000	35000	45000	70000	85000	110000
制动扭矩 Brake torque TBmax N·M	600	800	800	1000	1200	1200
液压马达 Motor	45 56 63	45 56 63	80 90	107 125	125 160	160 180
重量 Weight Kg	150	170	210	310	—	—
L1 mm	30	32	15	27.5	—	—
L2 mm	82	91	91	90	—	—
L3 mm	240	248	282	306	—	—
D1 mm	240	240	270	306	—	—
D2 mm	285	285	310	370	—	—
D3 mm	381	381	415	410	—	—
D4 mm	320	350	382	400	—	—
D5 mm	380	400	380	450	—	—
D6 mm	410	435	460	490	—	—
D7 mm	M20	M20	M24	M20	—	—
D8 mm	M16	M20	M20	M20	—	—
Qty D7/D8	20/20	20/16	24/24	20/20	—	—

EW 卷扬减速机

EW HOIST REDUCER



产品概述

静夜压卷扬减速机是卷扬机构的理想驱动装置。在非常艰苦恶劣的使用工况下能提供完美的性能并被证明物超所值。

卷扬减速机适用于所有已知的诸如汽车和履带式起重机，铁路起重机，舰船甲板，码头和集装箱起重机的卷扬机构，因其非常紧凑故可直接安装于卷筒内部，节省空间。另外，其设计亦易于安装。

表面硬化齿轮和氮化内齿圈的采用使之具有低噪音运作的特点，始终如一的高制造标准保证了极好的承载能力和工作可靠性。轮齿采用L+S计算机优化设计并具有最高的安全程度。此减速机特点是具有最优的总效率。

本样本中所述减速机经常更新和技术改进。为满足用户对尺寸和输出需要，我们可按要求做更进一步的变形结构。

无论何时需要，即便在项目阶段，我们随时准备着给您建议并提供帮助，以期为您找到最合适的解决办法。

结构特点

- 模块化结构的高强度行星减速机
- 结构紧决，节省空间，两级或三级行星齿轮传动设计
- 可承受钢丝绳牵引力的高承级能力的轴承系统
- 安装简单
- 一体化的多片式义持制动器
- 低噪声运转
- 高效率
- 长寿命
- 换油方便
- 另外，其设计简单易于安装

选型指南

此减速机设计基于多年的实践经验。

技术参数中所指最大输出转矩T max, 对应FEM第1部分,第3版和第1X部分(FEM-欧盟标准), 以及DIN15020, 机构载荷状态分级L2.机构利用等级T5, 对应于机构工作级别M5, 参考输出转速为最大每分钟25转.如果卷扬机构分级为其它机构工作级别, 则其所需输出转矩必须采用系数K进行修正。

Product Overview

Hydrostatic winch drives of type are the ideal driving components for winches.In the most arduous applications and under inclement operating conditions they have given excel-lent performance and proven their worth. winch drives are used in all known winch types.eg for use in mobile and cranes,shipboard,docksideand container track-laying cranes,railway cranes.As a result of their extremely compact shape the gears can be directly mounted in the cable drums in a space-savingmanner,furthermore,they have been designed for ease of installation.

The use of case-hardened gearwheels and nitrited annulus gears has resulted n ow-raise running characteristics, and a consistently high manufacturing standard ensuresexcellent load carrying ability and outstanding operational reliability.

The teeth of the gearwheels are optimized on the basis of L+S computer programsand yield highest safety margins.

The drives feature an optimum total efficiencyThe gear units described in this bulletin are subject to con-stant updating and technical advancement, To suit the specific needs of our customers with respect to dimensions and output further variants can be made available on request.

We are prepared to give advice and provide assistance whenever needed, even in the project stage, to find the most ap-propriate application solution for you.

Specal Features

- High-duty planetary gearbox of modular construction
- Compact,space-saving,two- or three-stage planetary gear design
- Robust bearing system absorbing the forces exerted by the ring gear
- Simple mounting
- Integrated multiple-disk holding brake
- Low-noise running
- High efficiency
- Long service life
- Easy oil change
- In addition, its design is simple and easy to install

Guide of Selection

The gearbox design is based on many years of practical application experience.The maximum output torques Tmax indicated under technical data for crane applications relate to FEM Section 1, 3rd Edi-tion and

Section IX (FEM - Federation Europeenne de la Manutention), as well as DIN 15020, collective load class L2, service time category T5 corresponding to driver group M5.

The reference output speed is 25 revolutions per minute maximum.If the swing drive is classified in another driver group the re-quired output torque must be converted by applying factor K.

机构工作级别和机构利用等级

Service time categoryf/机构利用等级				T2	T3	T4	T5	T6	T7	T8
Assumed average service time per day in hours 假定每天平均工作 小时				0.25–0.5	0.5–1	1–2	2–4	4–8	8–16	> 16
Theoretic service time per day in hours 理论工作寿命 小时				400–500	800–1600	1600–3200	3200–6300	3600–12500	12500–25000	25000–50000
Collective Load Class/ 载荷状态分级				Driver Group with K Factor/机构工作级别及系数K						
Collective groups/载荷状态组	L1	light 轻	maximum loads occurring in exceptional cases only, slight loads constantly 偶尔承受最大载荷 经常承受轻的载荷	M1 0.90	M2 0.90	M3 0.90	M4 0.90	M5 0.95	M6 1.05	M7 1.2
	L2	medium 中	small,medium and maximum loads about equally distributed over service time 工作时间内轻、中和最大载荷分布平均	M2 0.90	M3 0.95	M4 0.95	M5 1	M6 1.15	M7 1.30	M8 1.50
	L3	heavy 重	oads always near maximum 经常承受接近最大的载荷	M3 1.05	M4 1.05	M5 1.10	M6 1.25	M7 1.40	M8 1.60	M8 1.80
	L4	very heavy 特重	always maximum loads 经常承受最大载荷	M4 1.25	M5 1.30	M6 1.45	M7 1.62	M8 1.85	M8 2.10	M8 2.40

减速机选型

T₂=输出转矩

F=单绳拉力 N

D_w=相应卷绕直径 m

T_{2k}=修正的输出转矩

K按上表所给机构利用等级和载荷状态所对应的系数。

减速机选型时T_{2k}必须≤T_{2max}(见样本)。

Gearbox Selection

T₂=output torque

F=cable pull in N

D_w=relevant winding diameter in m

$$T_2 = \frac{F \cdot D_w}{2}$$

T_{2k}=corrected output torque

K Factor according to service time category and collective group given the table

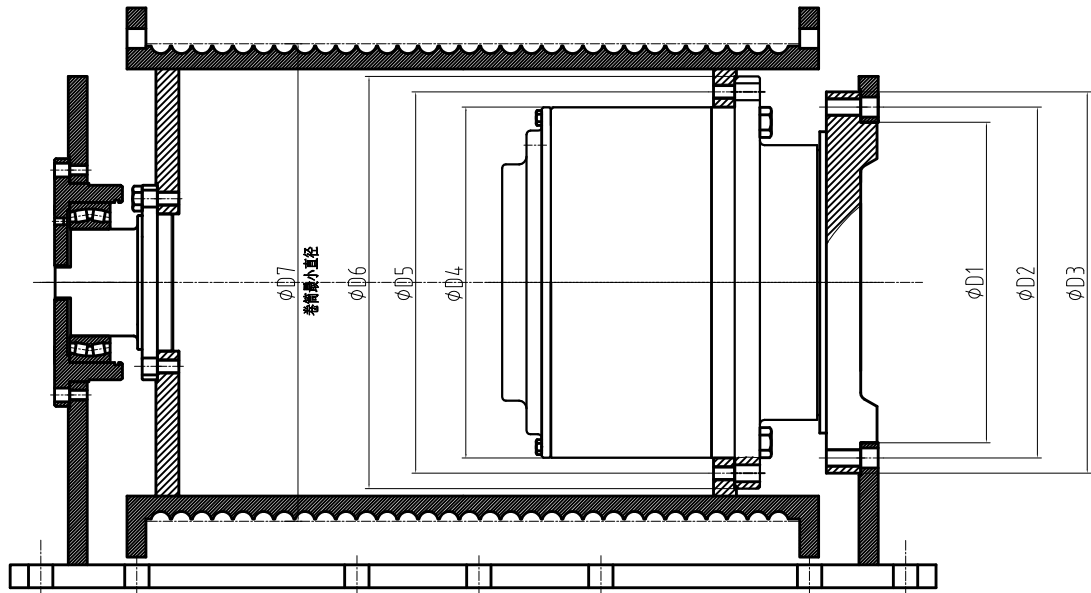
$$T_{2K} = T_2 \cdot K$$

T_{2k}of the gearbox be selected must be≤T_{2max} (acc.to bulletin)

分级示例
 Classifications Examples

Type of Crane (Designation) 起重机类型 (名称)	Component Operated(1) 工作元件	Type of Driver/机构类型				
		Hoisting 起升	Swinging 回转	Level 变幅	trolley 小车运行	Crane 大车运行
erection cranes/安装用起重机		M2-M3	M2-M3	M1-M2	M1-M2	M2-M3
loading bridges/桥式起重机	hook/吊钩	M5-M6	M4	-	M4-M5	M5-M6
loading bridges!桥式起重机	grab or magnet 抓斗或磁铁	M7-M8	M6	-	M6-M7	M7-M8
workshop cranes/车间用起重机		M6	M4	-	M4	M5
overhead travelling cranes,ram cranes,scrap yard cranes 天车，旁锤起重机，废钢场起重机	grab or magnet 抓斗或磁铁	M8	M6	-	M6-M7	M7-M8
unloading bridges, container gantry cranes 卸料桥，集装箱用门式起重机	吊钩或磁铁	M6-M7	M5-M6	M3-M4	M6-M7	M4-M5
other gantry cranes(with trolley and /or live ring) 其它门式起重机(带小车和/或转台)	hook/吊钩	M4-MS	M4-M5	-	M4-M5	M4-M5
unloading bridges,container gantry cranes(with trolley and / or live ring) 卸料桥，集装箱用门式起重机 (带小车和/或转台)	grab or magnet 抓斗或磁铁	M8	M5-M6	M3-M4	M7-M8	M4-M5
berth cranes,shipyard cranes, dismantling cranes船台起重机， 船坞起重机.拆卸用起重机	hook/吊钩	M5-M6	M4-M5	M4-M5	M4-M5	M5-M6
dockside cranes (sleware,gantrytype floating cranes， floating sheer legs 港口起重机(可转动,门式)， 浮式起重机,浮式起重架	hook/吊钩	M6-M7	M5-M6	M5-M6	-	M3-M4
dockside cranes (sleware,gantrytype floating cranes. floating sheer legs 港口起重机(可转动，门式)， 浮式起孟机，浮式起重架	grab or magnet 抓斗或磁铁	M7-M8	M6-M7	M6-M7	-	M4-M5
floating cranes and floating sheerleg: 打very high b15 (normally above 100t) 浮式起重机和浮起重架， 用于非常高的负荷(一般在100t以上)		M3-M4	M3-M4	M3-M4	-	-
shipboard cranes/甲板起重机	hook/吊钩	M4	M3-M4	M3-M4	M2	M5-M6
shipboard cranes/甲板起重机	grab or magnet 吊钩	M5-M6	M3-M4	M3-M4	M4-M5	M3-M4
tower cranes for construction sites 塔式起重机用于建筑工地		M4	M5	M4	M3	M4-M5
derrick tower gantry/门式塔架		M2-M3	MI-M2	MI-M2	-	-
railroad cranes for con structi on sites 铁路起重机，批准用于铁路维修		M3-M4	M2-M3	M2-M3	-	-
vehicle-mounted crane/车辆起重机	hook/吊钩	M3-m4	M3-M4	M2-M3	-	-

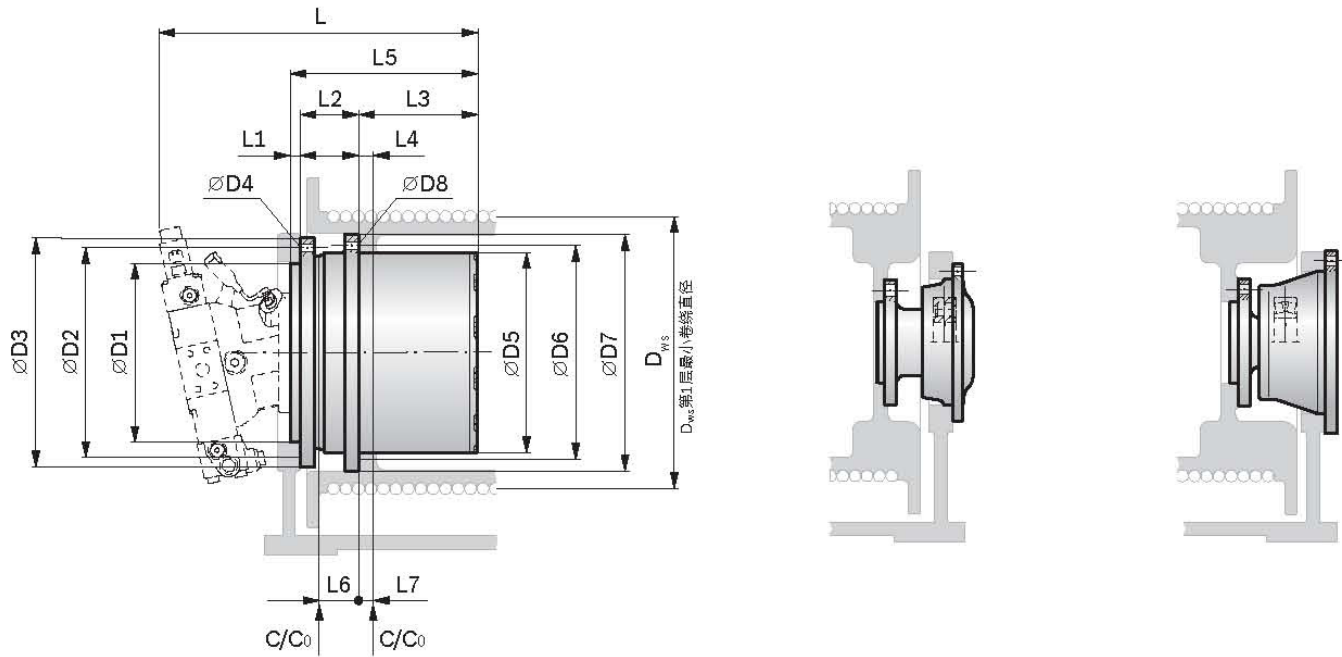
EW8系列卷扬



技术参数
 TECHNICAL PARAMETER

型号 Model	EW8017	EW8036	EW8060	EW8080	EW8110	EW8160	EW8220	EW8330
传动比 Ratio I	26.4 32.1 45.4 54	67 79.4 100 116.7	86.5 94.8 105.5 119.8 139.9 169.9	76.7 99 126.9 149.9 185.4	95.8 114.8 128.6 147.2 173.9 215	145.8 182.6 210.8 251	188.9 246.1 293	168.9 209.9 252 302.4
最大输出扭矩 Max Output torque N·M	13000	26000	43000	67000	100000	140000	195000	280000
最大拉力 Max Pull KN	65000	110000	160000	220000	300000	380000	450000	600000
液压马达 Motor	45 56 63 55	80 90	80 90 107 125	107 125 160	125 160 180	125 160 180	125 160 180	250
重量 Weight Kg	95	165	260	370	400	650	960	1300
D1 mm	250	270	330	380	420	450	460	580
D2 mm	290	310	370	430	460	510	600	680
D3 mm	320	350	410	480	500	560	650	735
D4 mm	280	320	370	430	460	435	610	660
D5 mm	305	350	410	480	500	600	680	730
D6 mm	330	380	450	520	540	650	735	785
D7 mm	380	450	520	600	650	750	850	930

EW5系列卷扬



型号	D _{ws}	D1	D2	D3	D4 mm	D5	D6	D7	D8
5130 E	380	250	290	320	16xM20	280	305	330	16x φ17.5
5146 E	440	270	310	350	16xM20	320	350	380	20x φ17.5
5146 F	440	270	310	350	16xM20	320	350	380	20x φ17.5
5150 E	500	330	370	410	20xM20x1.5	360	400	440	16x φ22
5170 F	545	330	370	410	20xM24	400	440	474	20x φ22
5185 E	600	380	430	480	20xM24	430	480	520	20x φ26
5190 E	650	380/420	430/460	466/500	28xM24/24xM24x2	460	500	540	36x φ22

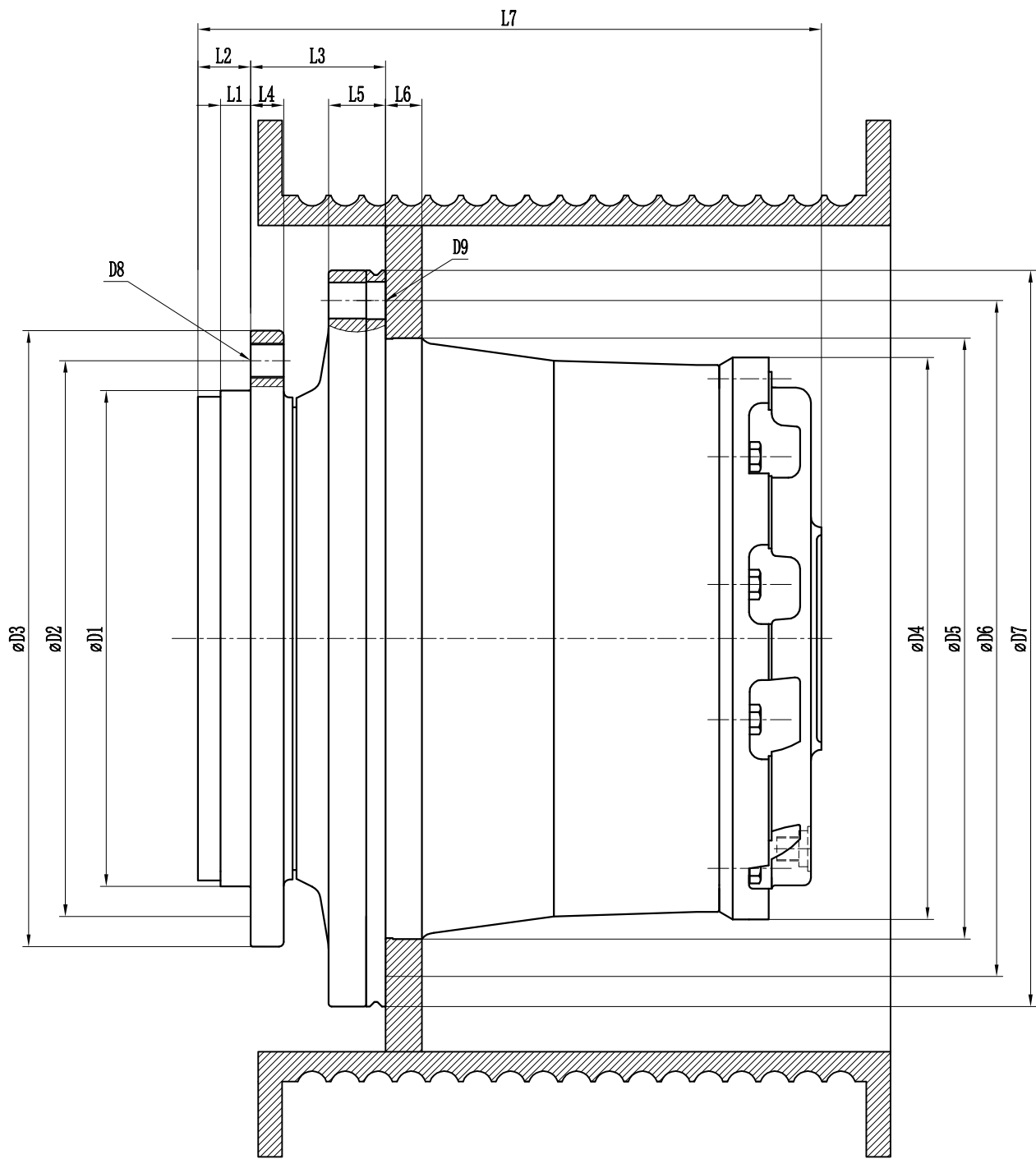
型号	L1	L2	L3	L4 mm	L5 ¹⁾	L6	L7	C/C ₀ (kN)	L mm
5130 E	14	82	166	20	262~334	40.7	52.9	241/480	1)
5146 E	14	90	184.5	25	288.5~360.5	53.1	53.1	177/424	1)
5146 F	14	90	220.5	25	324.5~396.5	53.1	53.1	177/424	1)
5150 E	12	90/108.5	234/252.5	30	354.5~378.5	46.8/65.3	115.2/96.7	276/571	1)
5170 F	14	90/114	260/284	30	388~435	43.7/67.7	102.8/78.8	258/607	1)
5185 E	23	148	282	30	453~501	92.6	47.6	405/1000	1)
5190 E	21,5	115/165	294/334	23	480.5~528.5	75.5/125.5	104.5/54.5	490/1202	1)

1) 取决于马达的型号

技术数据

型号	输出扭矩 ²⁾ T _{2 MAX} Nm	单绳拉力 max. ²⁾ kN	传动比 i	静态制动力矩 ³⁾ T _{Br max} Nm	相匹配的液压马达	重量约为 无马达 ⁴⁾ kg
5130 E	14000	73	26.0·32.3. 39.2·50.6	689	A2FEN56·63·80·90·107 A2FEM 45·56·63·80·90 A2FEH45·56·63·80·90/A6VE 55·60	87
5146 E	22000	95	27.6	725	A2FEN56·63·80·90·107/A2FEM 45·56·80·90 A2FEH45·56·63·80·90/A6VE55·60·80·85 A6VM 107·115	136
5146 F	26000	118	68.0·80.6 101.6·118.3	668 480	A2FEN56·63·80·90·107/A2FEM45·56·80·90 A2FEH 45·56·63·80·90/A2FMM107 ⁵⁾ ·125 ⁵⁾ A2FMH 107 ⁵⁾ ·125 ⁵⁾ /A6VE55·60·80·85	140
5150 E ⁵⁾	30000	120	32.3·35.4 41.4·50.6 54.7	1448 989 755	A2FEN90·107/A2FEM80·90·107·125 A2FEH 80·90·107·125/A2FM 160·180 A6VE80·85·107·115·160·170/A6VM 160·170	200
5170 F ⁵⁾	45000	165	63.9·83.1 9.50·107.3 124.1·162.5	1221 995 755	A2FE 160·180/A2FEN 90·107 A2FEM 80·90·107·125/A2FEH80·90·107·125 A2FMM 107 ⁶⁾ ·125 ⁶⁾ /A2FMH 107 ⁶⁾ ·125 ⁶⁾ A6VE80·85·107·115·160·170 A6VM 107·140·150·160·170	265
5185 F ⁵⁾	70000	233	76.4·98.7 110.0·126.6 147.0·185.1	1448 989	A2FE160·180/A2FEN90·107 A2FFM80·90·107·125 A2FFH80·90·107·125 A6VE 107·115·160·170 A6VM 160·200·215·250	358
5190 F ⁵⁾	10500	323	75.0·93.8 116.0·121.1 140.1·167.9 209.0	2080 1872 1448 989	A2FE160·180/A2FEM107·125 A2FEH 107·125 A6VE107·115·160·170 A2FM200·250 A6VM200·215·250	430

EW9系列卷扬



技术参数 TECHNICAL PARAMETER

型号 Model	EW9080	EW9100	EW9130	EW9180	EW9220	EW9260
传动比 Ratio i	121 137 147 187	95 121 175 192 226	115 123 167 206	206 281	190 248 345	245 251 345
额定扭矩 Nominal Torque N·M	45000	70000	100000	145000	165000	180000
液压马达 Motor	80 90 107 125	107 125 160	125 160 180	180	160 180 200 250	250
重量 Weight Kg	260	330	450	650	750	900
L1 mm	12	35/37	45	30	18	21
L2 mm	25	35/37	45	30	52	45
L3 mm	110	165	190	168	166.5	170
L4 mm	24	28	35	40	40	40
L5 mm	36	53	58	56	61	48
L6 mm	30	43	45	21.5	35	60
L7 mm	413	461/463	530	534.5	580.5	579
D1 mm	330	390	390	450	460	460
D2 mm	370	460	500	510	600	520
D3 mm	410	500	550	560	650	570
D4 mm	374	407	449	528	540	608
D5 mm	400	408	450	535	542	610
D6 mm	450	460	500	600	600	680
D7 mm	490	500	550	650	650	735
D8 mm	M24*2	M24*2	M24*2	M24*2	M24*2	M30*2
D9 mm	φ 26	φ 26	φ 26	φ 26	φ 26	φ 32
Qty D8/D9	20/20	30/24	32/32	30/30	38/38	24/24

ES 回转减速机

ES SWING REDUCER



产品概述

ES系列液压回转减速机是理想的传动装置。是轮式或履带式挖掘机、旋挖钻机、履带和汽车起重机、船用克令吊等设备理想的回转减速部件，在非常恶劣的使用工况下能提供可靠的性能。

由于使用了经硬化处理的齿轮和经氮化处理的内齿圈，同时生产工艺质量很高，因而保证了该设备非常好的承载能力，运行可靠和低噪音。产品结构紧凑，节省空间，效率高，寿命长，内置多片式制动器，安装与保养方便。

所列出的液压回转减速机表示公司已经投入生产的产品，我们也可根据客户要求提供其他安装尺寸及不同速比型号的产品。我们可在客户选型阶段为客户提供相关咨询服务，为客户找到满意的解决方案。如有需要请与本公司技术或销售人员联系。

结构特点

- 模块化结构的高性能行址减速机
- 紧凑，省空间的2级或者3级行星齿轮结构
- 轴承系统坚固，能吸收来自回转支承的力
- 安装简单
- 内装多片式停车制动器
- 低噪声运转
- 效率高
- 寿命长
- 换油方便

制动器

按照标准，传动装置中装有一个弹簧制动液压释放的多片式停车制动器。

$TBR(\text{最小静态制动力矩})=1.3 \cdot T1(\text{输入扭矩})$

Product Overview

ES series hydraulic slewing reducer is the ideal transmission device. It is an ideal slewing and deceleration component for wheeled or crawler excavators, rotary drilling rigs, crawler and truck cranes, marine cranes and other equipment, providing reliable performance under very harsh operating conditions.

Thanks to the use of hardened gears and nitrided internal ring gears, as well as the high quality of the production process, the machine guarantees a very good load-bearing capacity, reliable operation and low noise. The product is compact, space-saving, efficient, long-lasting, and has a built-in multi-disc brake, which is easy to install and maintain.

The listed hydraulic slewing reducers represent the products that the company has already put into production, and we can also provide other installation sizes and different speed ratio models according to customer requirements. We can provide customers with relevant consulting services at the customer selection stage to find satisfactory solutions for customers. If necessary, please contact the company's technical or sales staff.

Specal Features

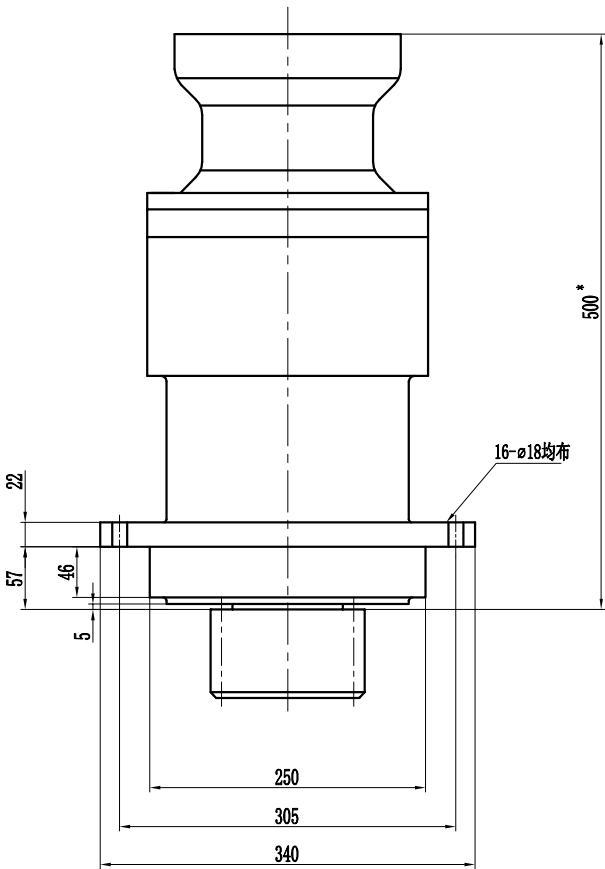
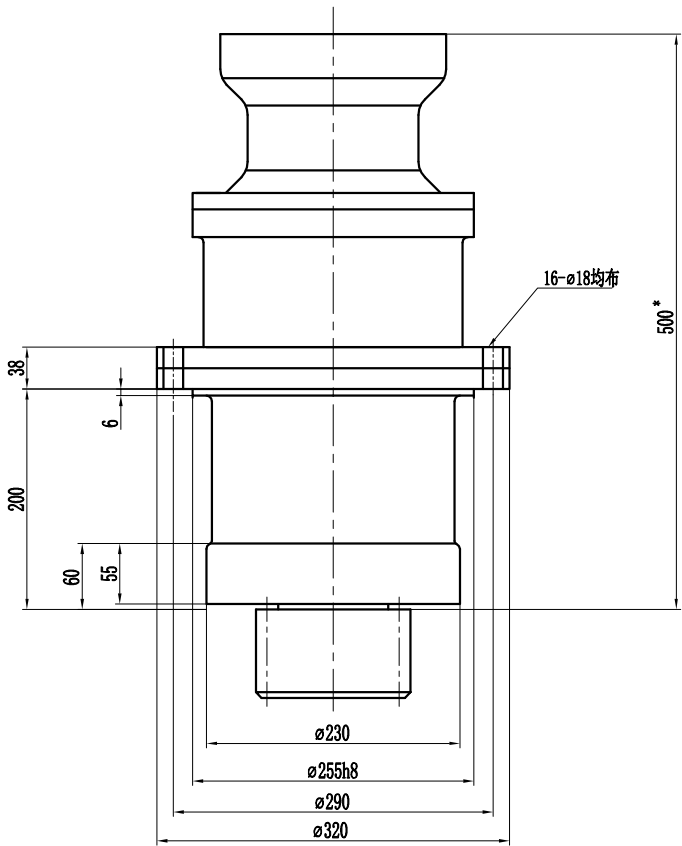
- High-duty planetary gearbox of modular construction
- Compact, space-saving, two- or three-stage planetary gear design
- Robust bearing system absorbing the forces exerted by the ring gear
- Simple mounting
- Integrated multiple-disk holding brake
- Low-noise running
- High efficiency
- Long service life
- Easy oil change

Brake

The standard supply scope includes a spring-loaded, hydraulically released multiple-disk parking brake arranged on the input side.

$TBr \text{ sta.min}=1.3 \cdot T1(\text{input torque})$

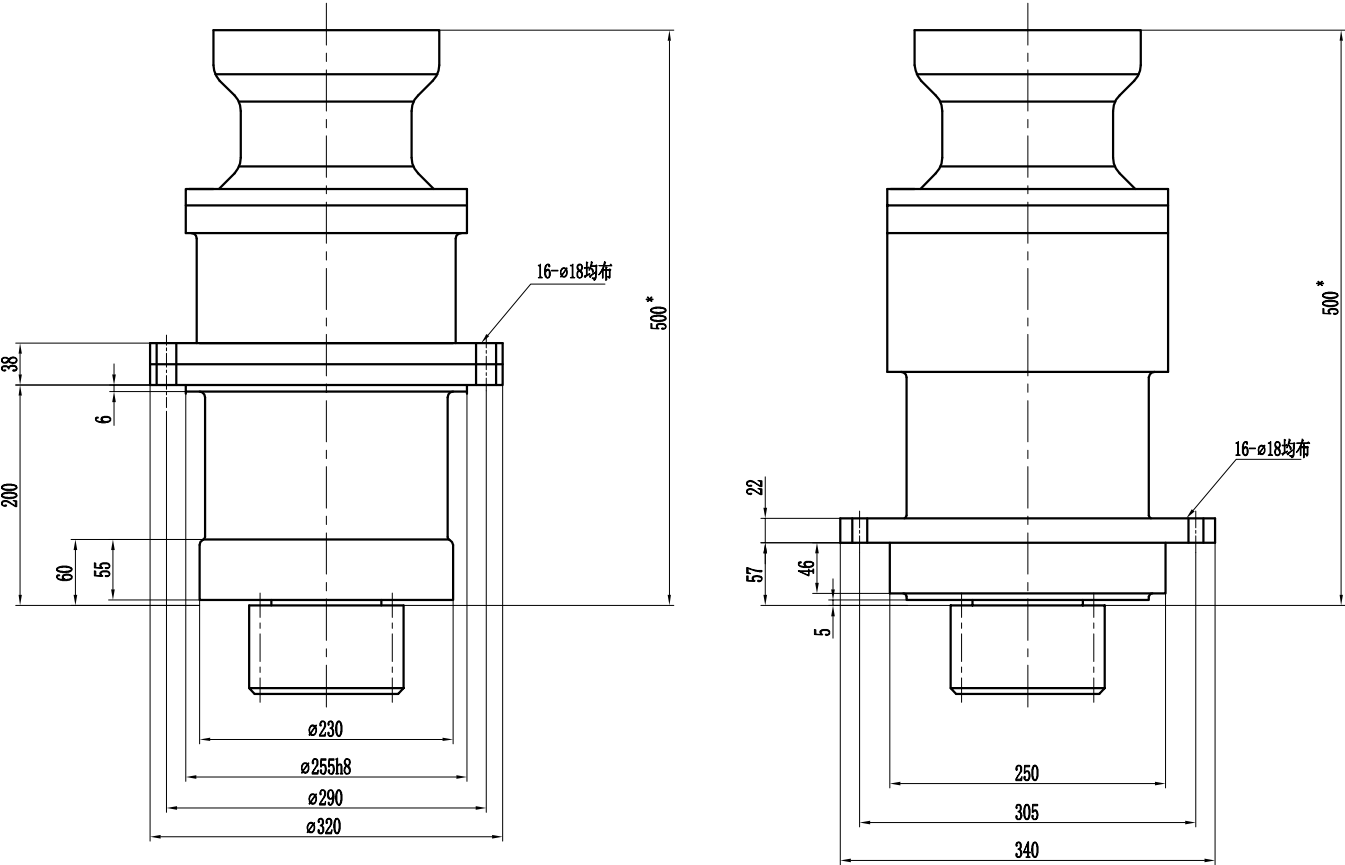
ES8017



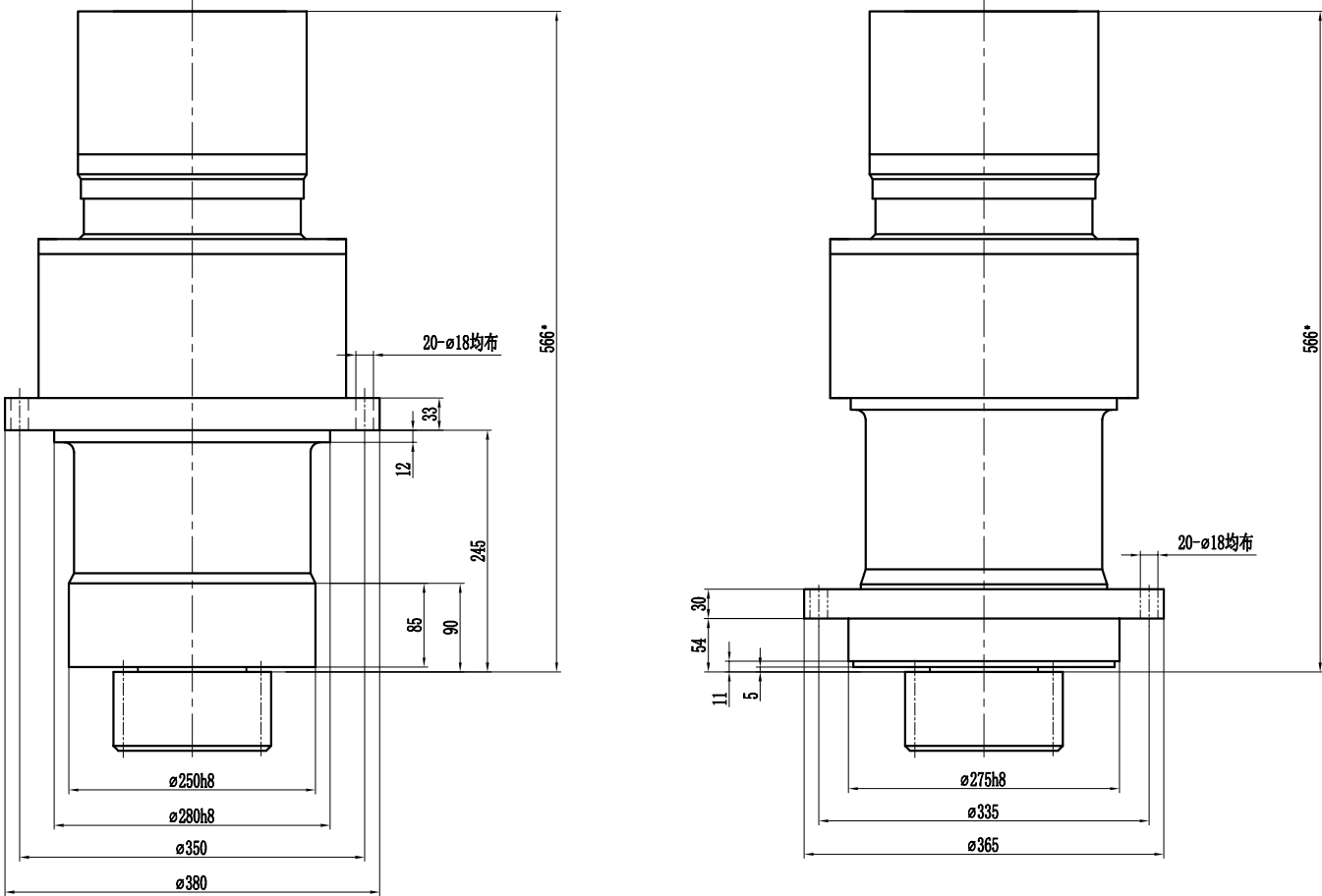
技术参数 TECHNICAL PARAMETER

最大输出扭矩 Max output torque Tmax N·M	传动比 Ratio	最大输入转速 Max input rotating rpm	制动扭矩 Brake torque TBmax N·M	制动器工作压力 Brake working pressure MPa	液压马达 Hydraulic motor	重量 Weight Kg
12500	27.4 33.1 46.4	3000	450	1.8-5	A2FE45-Z A2FE56-Z A2FE63-Z	125
减速机输入转向与输出转向相同。 输出转速允用值(样本中未规定)因实际工况的而有所变化,详情请咨询本公司相关技术人员 Input rotating direction is of reverse to that of output. The allowed value for the output rotaling (not stated in the example may varies according to the specific working condition and details could be consulted with our technicians.						

ES8017



ES8036



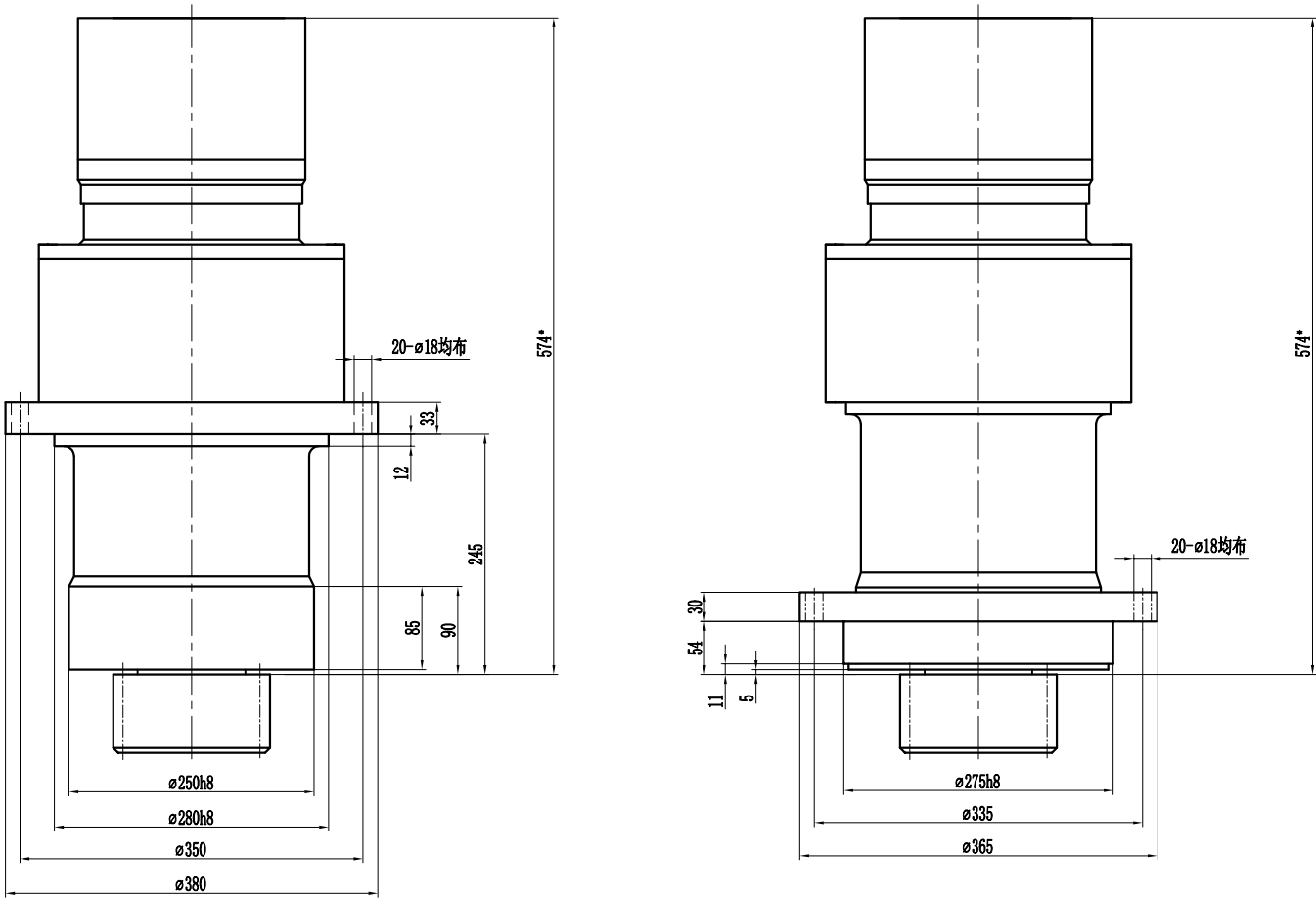
技术参数 TECHNICAL PARAMETER

最大输出扭矩 Max output torque Tmax N·M	传动比 Ratio	最大输入转速 Max input rotating rpm	制动扭矩 Brake torque TBmax N·M	制动器工作压力 Brake working pressure MPa	液压马达 Hydraulic motor	重量 Weight Kg
13000	78.9 89.2 103.6	3000	450	1.8-5	A2FE45-Z A2FE56-Z A2FE63-Z	140
减速机输入转向与输出转向相同。 输出转速允用值(样本中未规定)因实际工况的而有所变化, 详情请咨询本公司相关技术人员 Input rotating direction is of reverse to that of output. The allowed value for the output rotaling (not stated in the example may varies according to the specific working condition and details could be consulted with our technicians.						

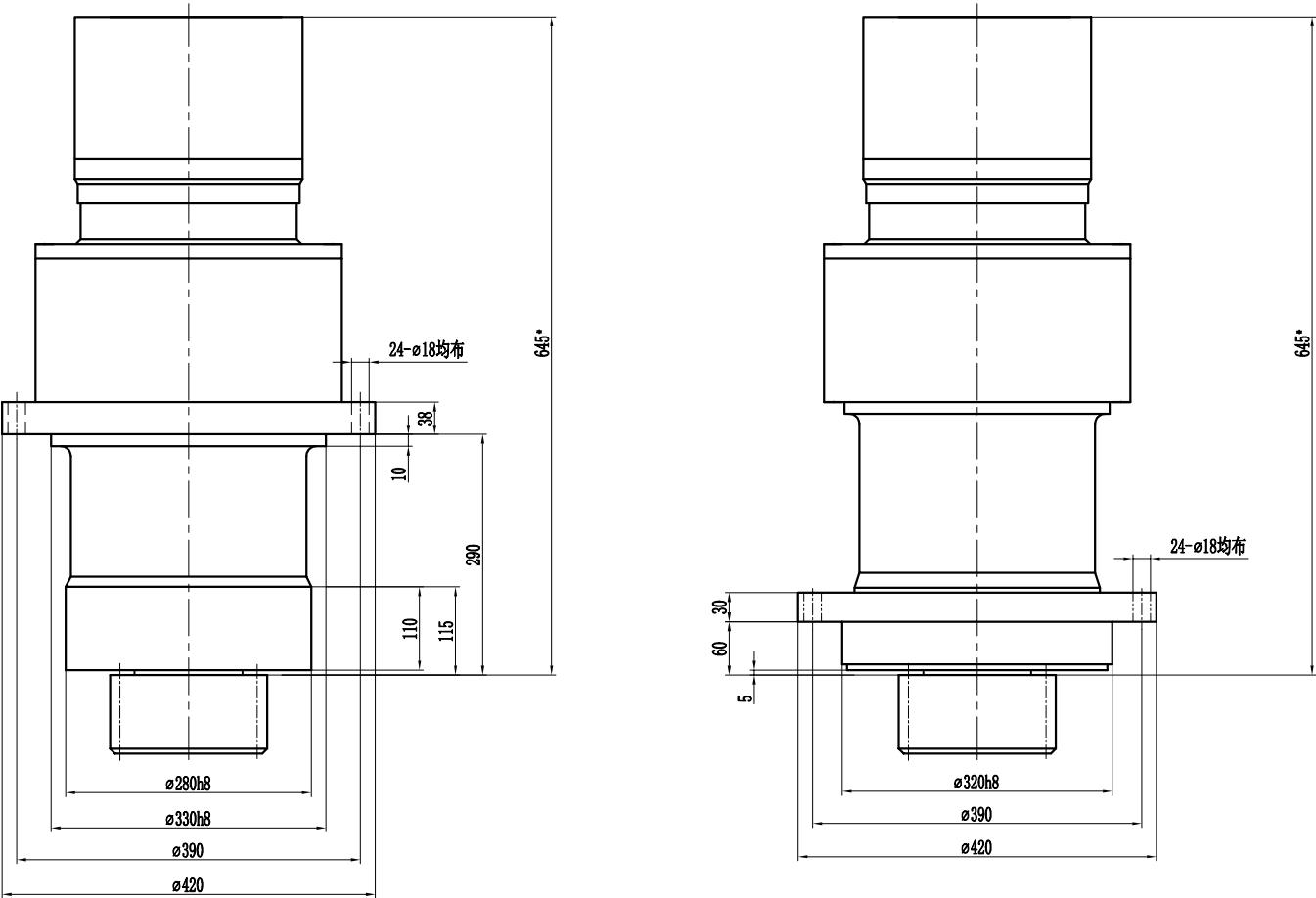
技术参数 TECHNICAL PARAMETER

最大输出扭矩 Max output torque Tmax N·M	传动比 Ratio	最大输入转速 Max input rotating rpm	制动扭矩 Brake torque TBmax N·M	制动器工作压力 Brake working pressure MPa	液压马达 Hydraulic motor	重量 Weight Kg
28500	24 28.9	3000	550	1.8-5	A2FE45-Z A2FE56-Z A2FE63-Z	190
减速机输入转向与输出转向相同。 输出转速允用值(样本中未规定)因实际工况的而有所变化, 详情请咨询本公司相关技术人员 Input rotating direction is of reverse to that of output. The allowed value for the output rotaling (not stated in the example may varies according to the specific working condition and details could be consulted with our technicians.						

ES8036



ES8050



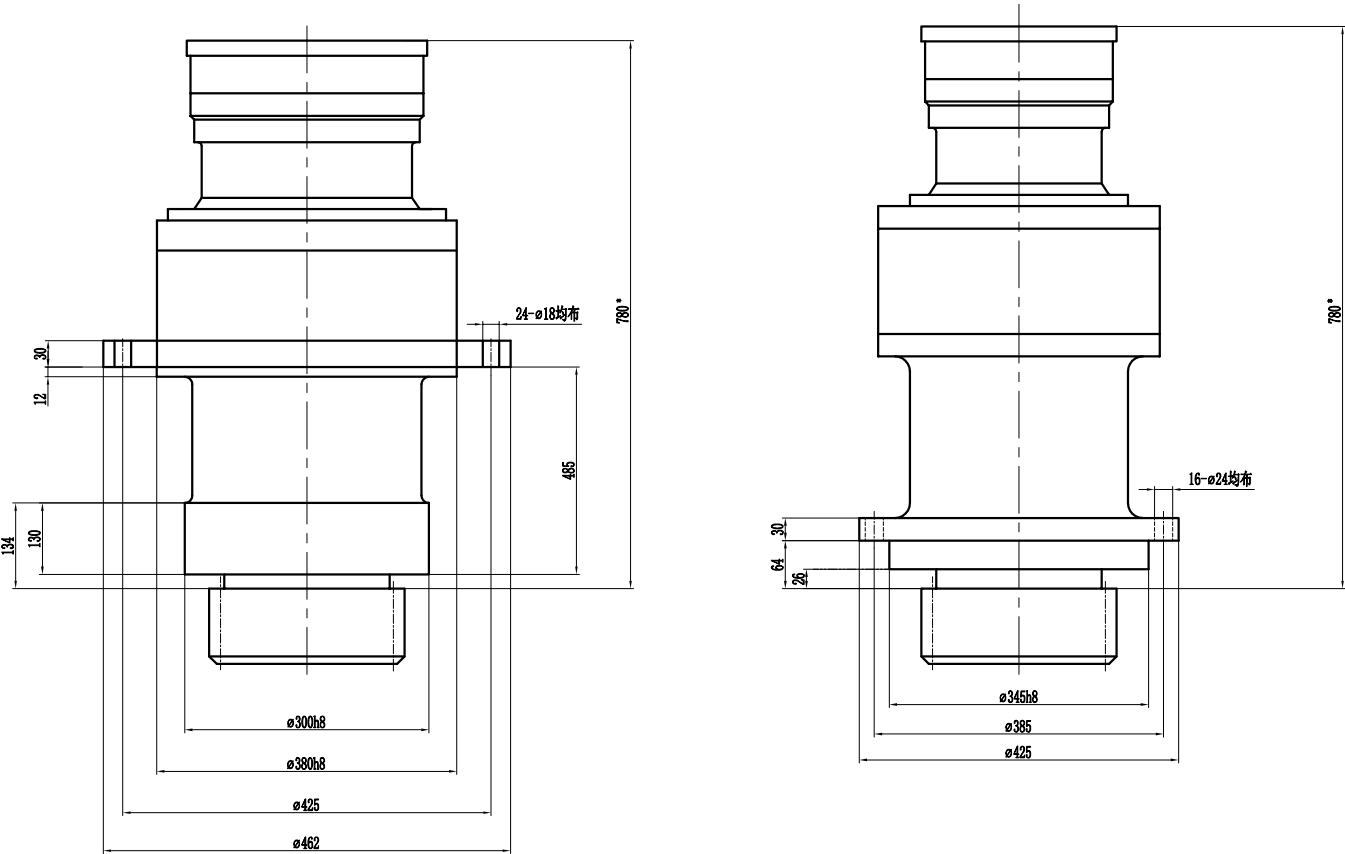
技术参数 TECHNICAL PARAMETER

最大输出扭矩 Max output torque Tmax N·M	传动比 Ratio	最大输入转速 Max input rotating rpm	制动扭矩 Brake torque TBmax N·M	制动器工作压力 Brake working pressure MPa	液压马达 Hydraulic motor	重量 Weight Kg
29000	67.9 80.4 101 117.6	3000	550	1.8-5	A2FE45-Z A2FE56-Z A2FE63-Z	220
减速机输入转向与输出转向相同。 输出转速允用值(样本中未规定)因实际工况的而有所变化, 详情请咨询本公司相关技术人员 Input rotating direction is of reverse to that of output. The allowed value for the output rotaling (not stated in the example may varies according to the specific working condition and details could be consulted with our technicians.						

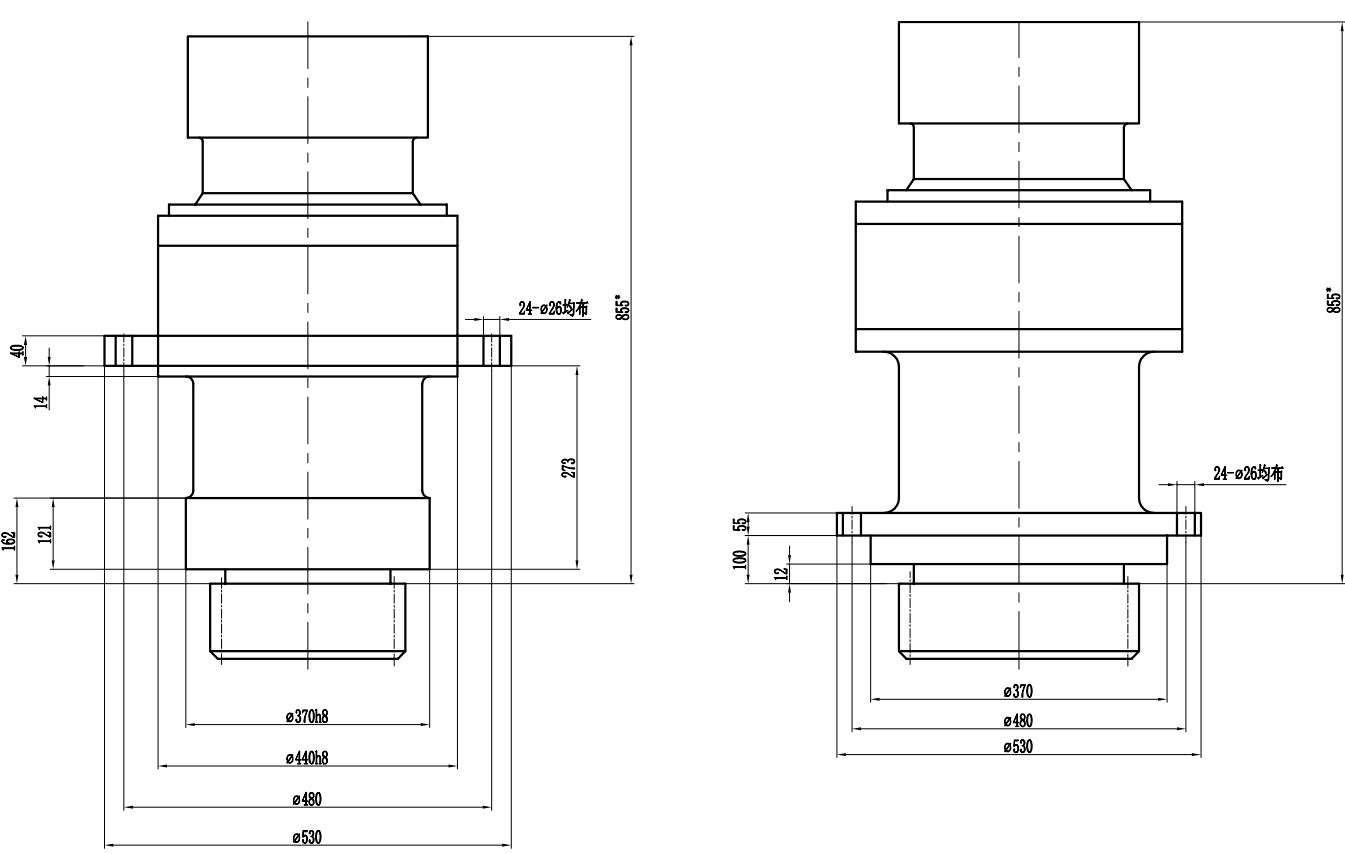
技术参数 TECHNICAL PARAMETER

最大输出扭矩 Max output torque Tmax N·M	传动比 Ratio	最大输入转速 Max input rotating rpm	制动扭矩 Brake torque TBmax N·M	制动器工作压力 Brake working pressure MPa	液压马达 Hydraulic motor	重量 Weight Kg
38000	100.7 111.9 126.7 147.4	2500	800	1.8-5	A2FE80-A A2FE90-A	420
减速机输入转向与输出转向相同。 输出转速允用值(样本中未规定)因实际工况的而有所变化, 详情请咨询本公司相关技术人员 Input rotating direction is of reverse to that of output. The allowed value for the output rotaling (not stated in the example may varies according to the specific working condition and details could be consulted with our technicians.						

ES8060



ES8080



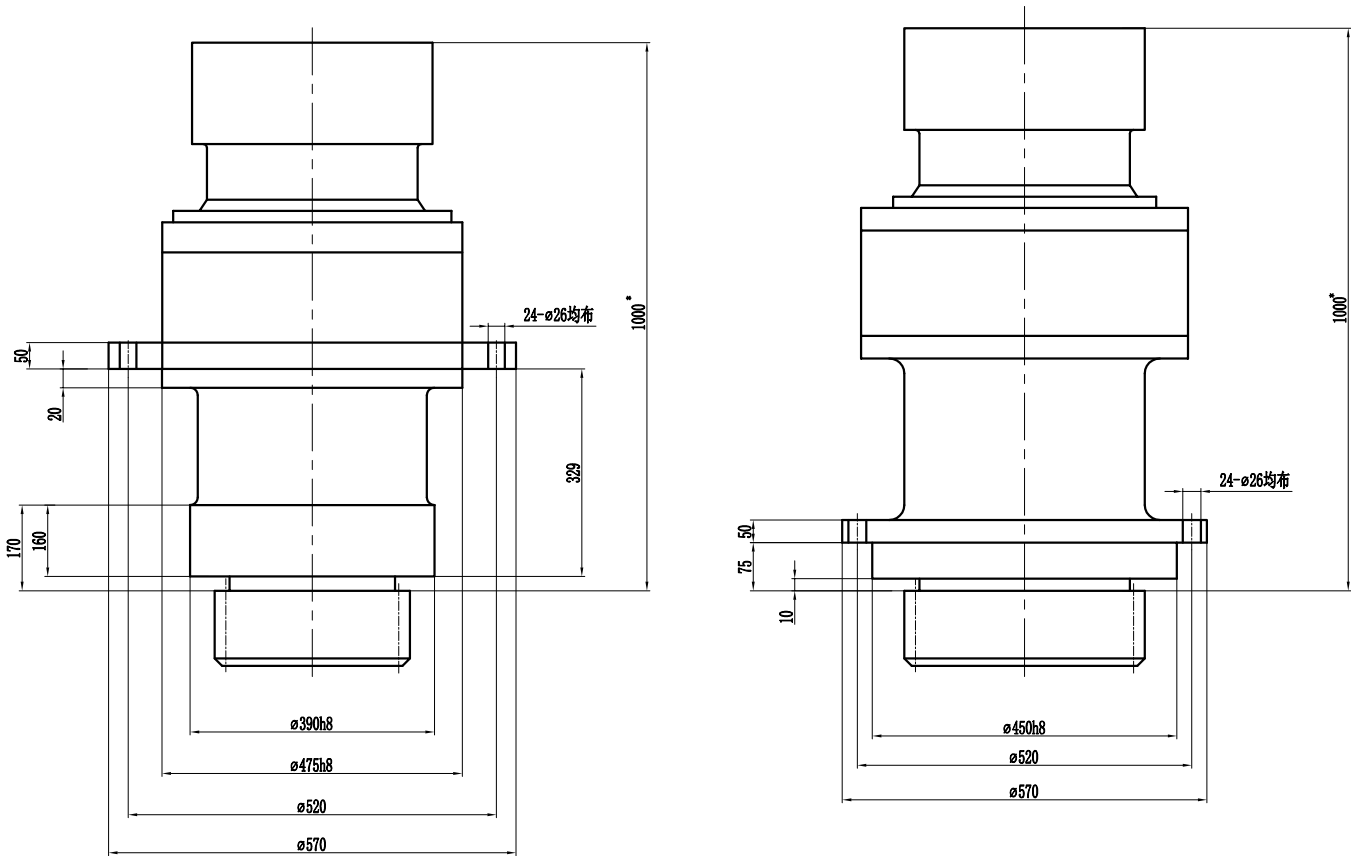
技术参数 TECHNICAL PARAMETER

最大输出扭矩 Max output torque Tmax N·M	传动比 Ratio	最大输入转速 Max input rotating rpm	制动扭矩 Brake torque TBmax N·M	制动器工作压力 Brake working pressure MPa	液压马达 Hydraulic motor	重量 Weight Kg
48500	87.5 95.8 106.5 120.8 140.9 170.9	2500	800	1.8-5	A2FE80-A A2FE90-A	480
减速机输入转向与输出转向相同。 输出转速允用值(样本中未规定)因实际工况的而有所变化, 详情请咨询本公司相关技术人员 Input rotating direction is of reverse to that of output. The allowed value for the output rotaling (not stated in the example may varies according to the specific working condition and details could be consulted with our technicians.						

技术参数 TECHNICAL PARAMETER

最大输出扭矩 Max output torque Tmax N·M	传动比 Ratio	最大输入转速 Max input rotating rpm	制动扭矩 Brake torque TBmax N·M	制动器工作压力 Brake working pressure MPa	液压马达 Hydraulic motor	重量 Weight Kg
68500	80.2 99.9 111.8 127.9 150.9 186.4	2500	900	1.8-5	A2FE107-Z A2FE125-Z	600
减速机输入转向与输出转向相同。 输出转速允用值(样本中未规定)因实际工况的而有所变化, 详情请咨询本公司相关技术人员 Input rotating direction is of reverse to that of output. The allowed value for the output rotaling (not stated in the example may varies according to the specific working condition and details could be consulted with our technicians.						

ES8110



液压绞车
WINCH



产品概述

E系列液压绞车采用本公司专业技术,由带单向平衡阀及控制制动器的高压梭阀组成的各种集成阀块、液压马达、Z型制动器、行星减速机、卷筒、机架以及离合器等部件组成,用户只需配备泵站和即可。由于绞车自带阀组,它不但简化了液压系统而且提高了传动装置的工作可靠性。除此,它还具有启动和工作时效率高、功率大、能耗小、噪音低、外形美观、结构紧凑、经济性好的特点。该产品可广泛应用于建筑工程、石油、地质勘探、船舶甲板机械等设备中。

参数说明

- 该系列绞车的总排量为卷筒每转一转的供油量。
- 供油量是泵站的理论流量,即在考虑系统效率90%的情况下所得的计算值。
- 容绳量为绞车的理论最大容绳量,实际允许的有效容绳量应考虑保留3圈钢丝绳不用,以防绳头脱出。

Product Overview

E series hydraulic winch by the company of professional technology, all kinds of integrated valve block, a hydraulic motor, Z type brake, planetary reducer, reel, rack and clutch components by high-pressure shuttle valve with one-way balance valve and brake control components, users only need to pump and can be equipped with. Because the winch has a valve group it not only simplifies the hydraulic system, but also improves the reliability of the transmission device. In addition, it has the characteristics of high starting time, high working efficiency, high power consumption, low energy consumption, low noise, beautiful appearance, compact structure and good economy. The product can be widely used in construction engineering, petroleum, geological exploration, ship deck MACHINERY and other equipment.

Specal Features

- The total displacement of the series of winch is the oil supply quantity when the reel rotates one circle.
- The oil supply quantity is the theoretical flow of the pump station, namely, the calculated value of pump station under the conditions of considering the system efficiency of 90%.
- The rope capacity of reel is the theoretica max capacity to hold the rope. The actually allowable effective rope capacity should consider keeping 3 loops of steel wire rope unused to prevent the rope end from disengagement.

型号举例

EW50-80、20-ZP表示

钢丝绳的第一层拉力为50KN。卷筒容绳量为80M,钢丝绳直径 $\phi 20$,带制动器及单向平衡阀。

Specification Example

Description of parameters

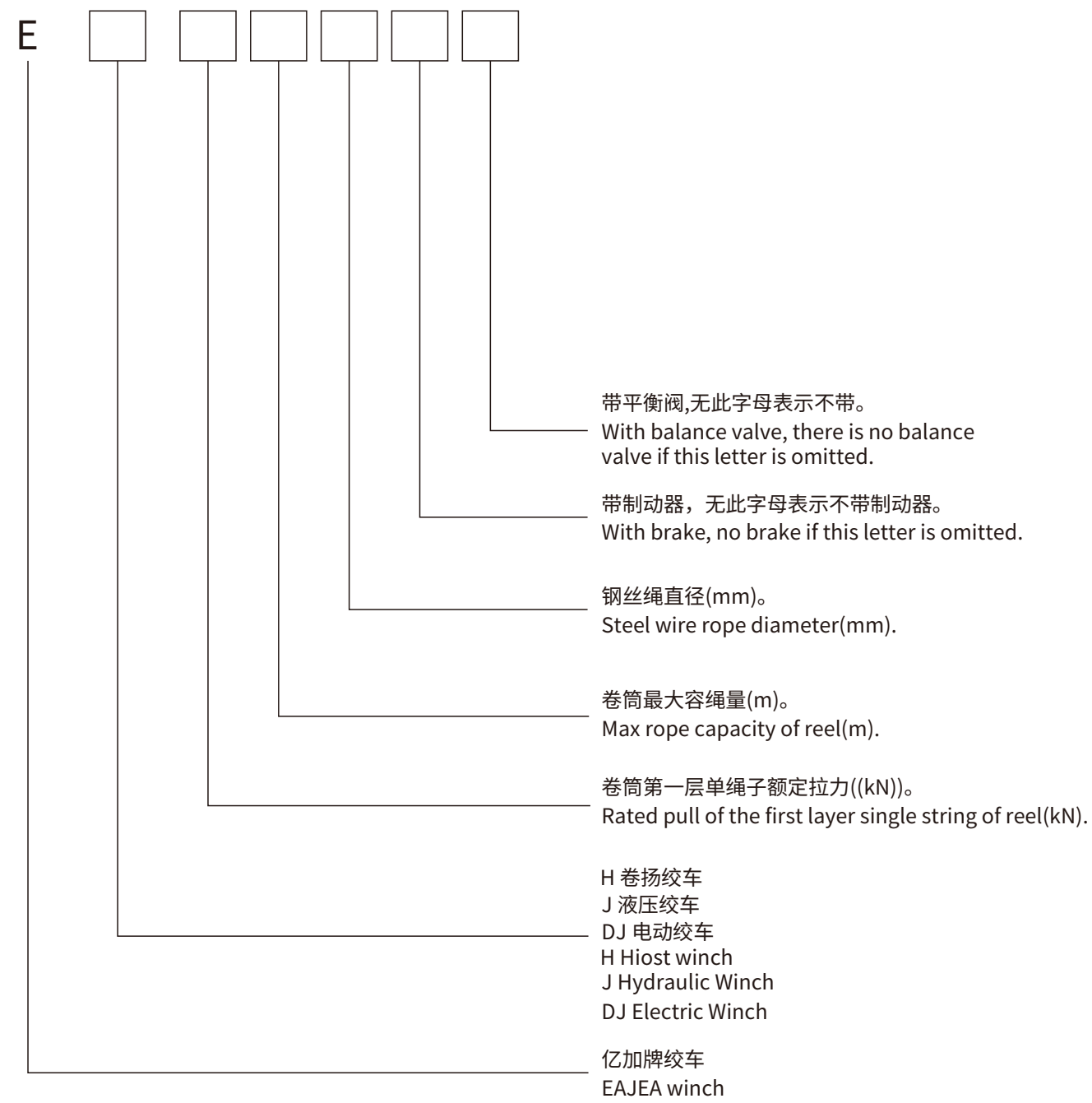
The hydraulic winch with the pull force of 50KN at the first alyer of steel wirerope; The wire capacity of the reel is 80 m and the diameter of steel wire ropeis b20. It has brake and the one way balance valve.

技术参数 TECHNICAL PARAMETER

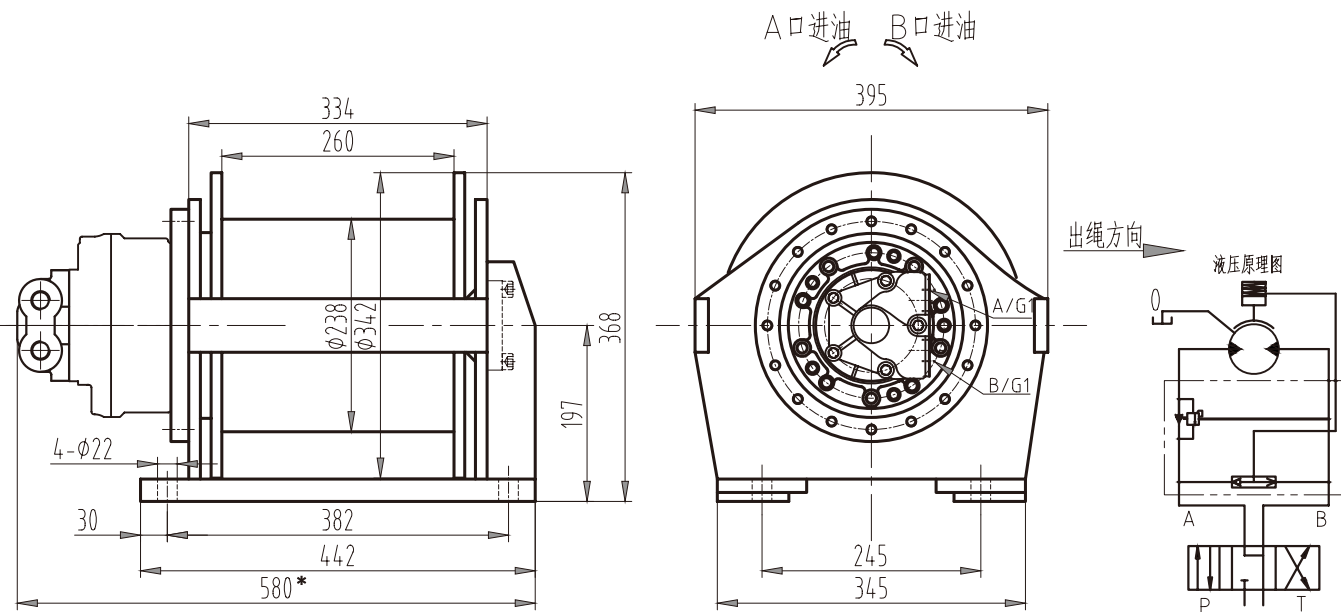
最大输出扭矩 Max output torque Tmax N·M	传动比 Ratio	最大输入转速 Max input rotating rpm	制动扭矩 Brake torque TBmax N·M	制动器工作压力 Brake working pressure MPa	液压马达 Hydraulic motor	重量 Weight Kg
93500	88.6 96.8 129.6 148.2 174.9	2000	1000	1.8-5	A2FE107-Z A2FE125-Z	630
减速机输入转向与输出转向相同。 输出转速允用值(样本中未规定)因实际工况的而有所变化,详情请咨询本公司相关技术人员 Input rotating direction is of reverse to that of output. The allowed value for the output rotaling (not stated in the example may varies according to the specific working condition and details could be consulted with our technicians.						

型号说明

MODEL DESCRIPTION



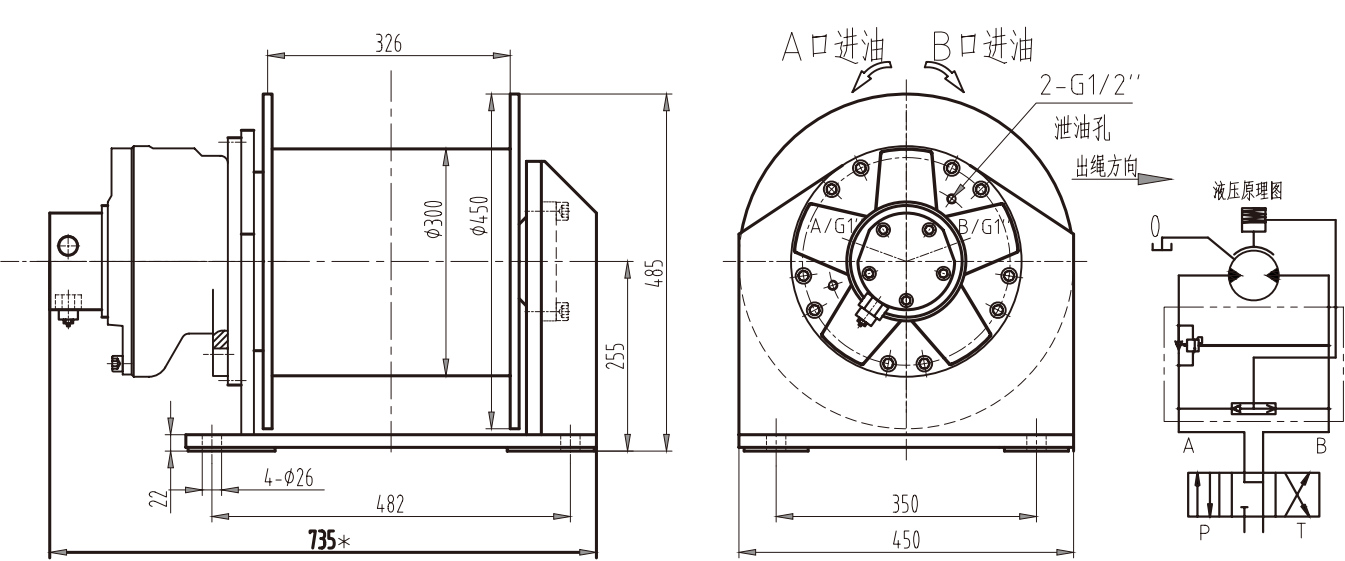
EJ 20



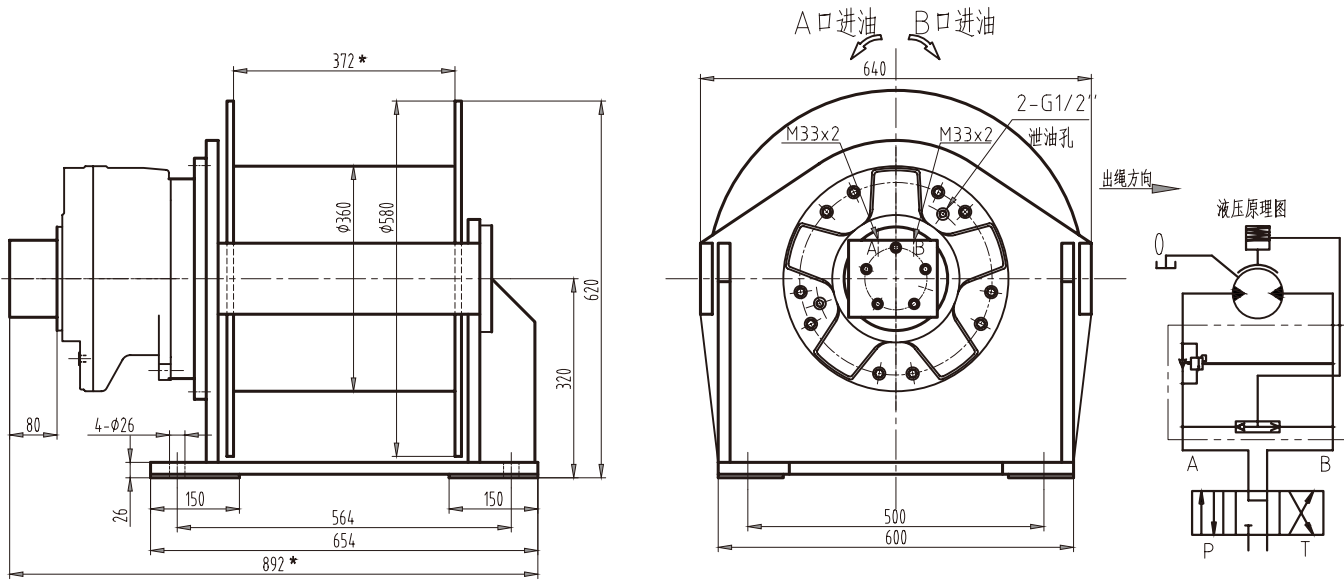
技术参数 TECHNICAL PARAMETER

型号 Model	第一层 First Layer		容绳量 Rope Capacity m	总排量 Total Displacement ml/r	工作压差 Difference of Working Pressures Mpa	钢丝绳直径 Steel wire Diameter m	液压马达型号 Model of hydraulic motor	行星减速器型号 Model of planetary reducer	重量 Weight kg
	拉力 Pull force KN	绳速 Rope speed m/min							
EJ10-60.10-ZP	10	0-40	60	575	15	φ10	GM05-110D1201	EC2.5-5.5	130
EJ20-50.12-ZP	20	0-40	50	1050	15	φ12	GM05-200D1201	EC2.5-5.5	220

EJ 40



EJ 60



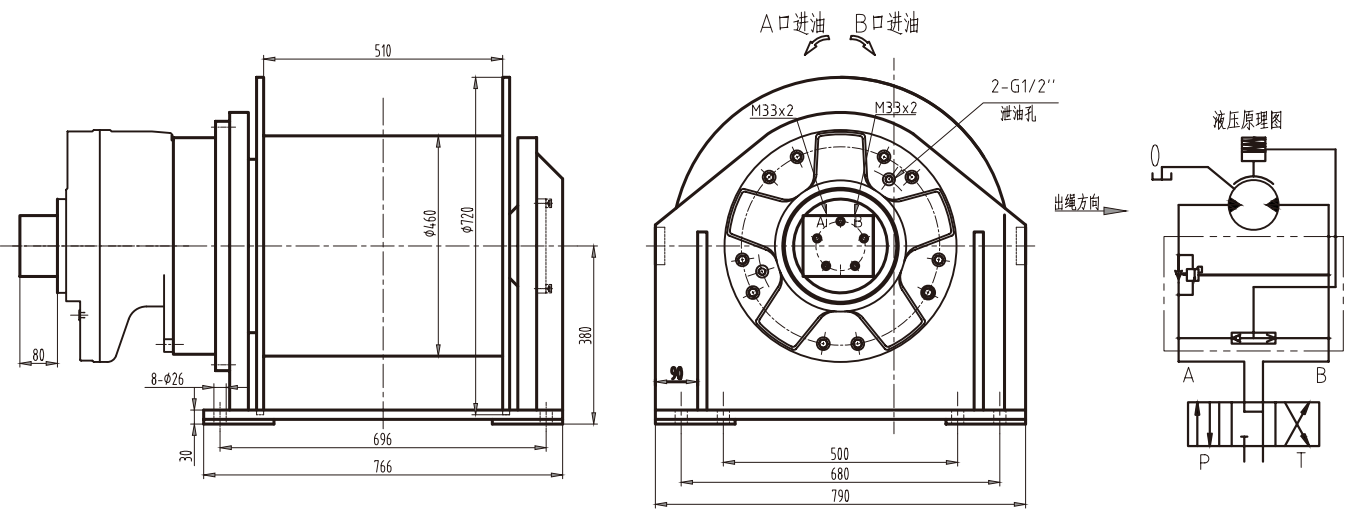
技术参数 TECHNICAL PARAMETER

型号 Model	第一层 First Layer		容绳量 Rope Capacity m	总排量 Total Displacement ml/r	工作压差 Difference of Working Pressures Mpa	钢丝绳直径 Steel wire Diameter m	液压马达型号 Model of hydraulic motor	行星减速器型号 Model of planetary reducer	重量 Weight kg
	拉力 Pull force KN	绳速 Rope speed m/min							
EJ30-70.14-ZP	30	0-40	70	2500	15	φ14	GM2-500D2401	EC3-5	230
EJ40-60.16-ZP	40	0-40	60	3300	15	φ16	GM2-600D2401	EC3-5.5	370

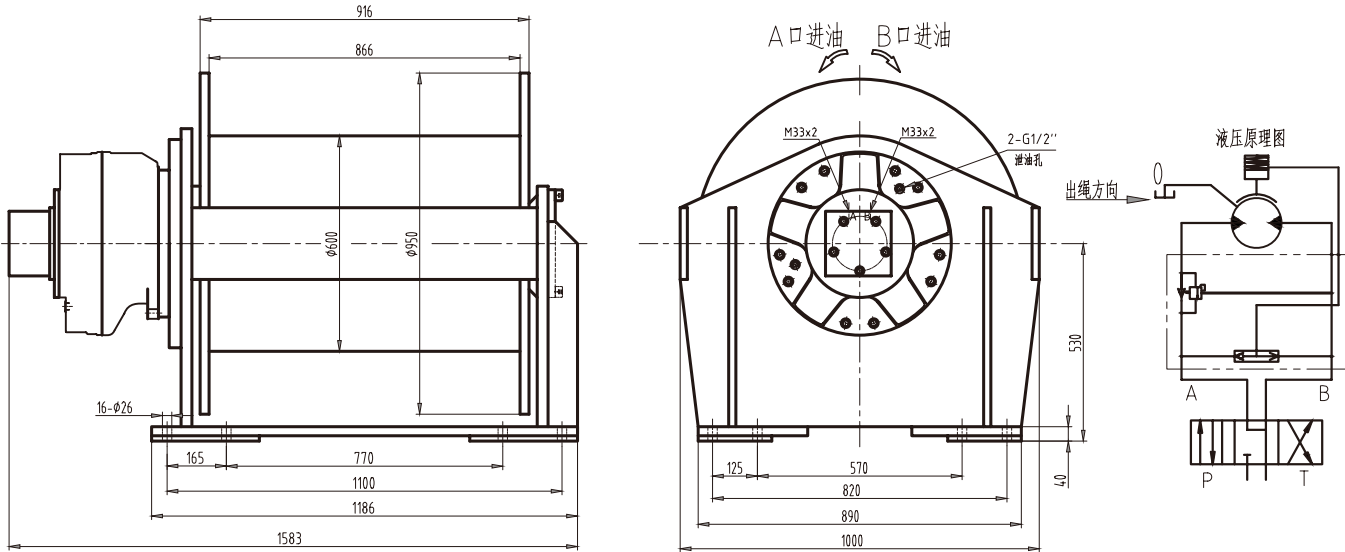
技术参数 TECHNICAL PARAMETER

型号 Model	第一层 First Layer		容绳量 Rope Capacity m	总排量 Total Displacement ml/r	工作压差 Difference of Working Pressures Mpa	钢丝绳直径 Steel wire Diameter m	液压马达型号 Model of hydraulic motor	行星减速器型号 Model of planetary reducer	重量 Weight kg
	拉力 Pull force KN	绳速 Rope speed m/min							
EJ50-70.20-ZP	50	0-40	70	4500	16	φ20	GM3-900D2401	EC4-5	390
EJ60-70.20-ZP	60	0-40	70	5500	16	φ20	GM3-1000D2401	EC4-5.5	400

EJ 100



EJ 150



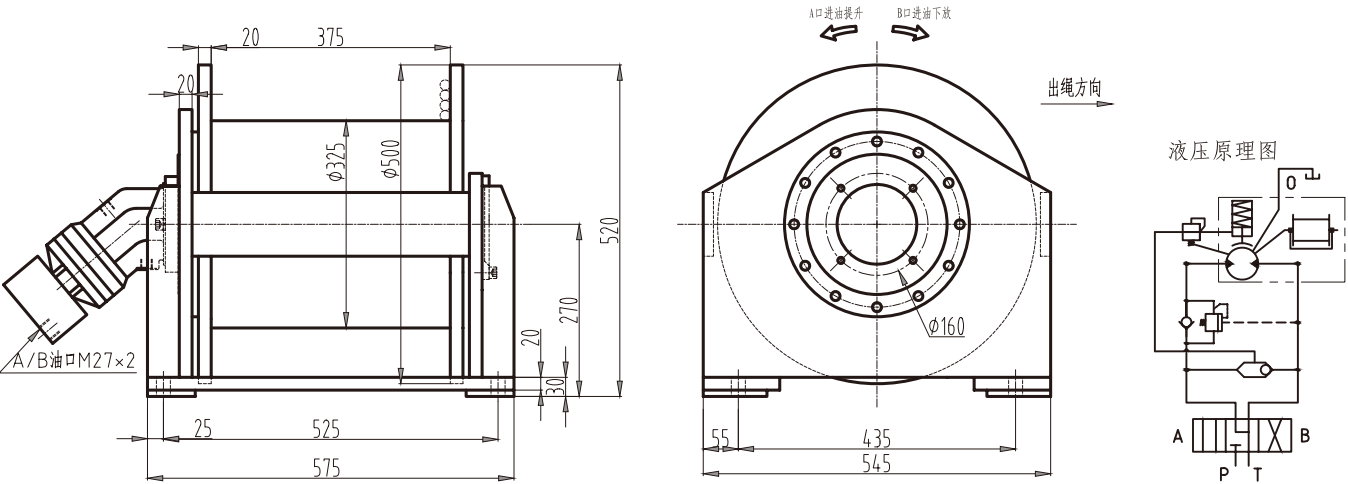
技术参数 TECHNICAL PARAMETER

型号 Model	第一层 First Layer		容绳量 Rope Capacity m	总排量 Total Displacement ml/r	工作压差 Difference of Working Pressures Mpa	钢丝绳直径 Steel wire Diameter m	液压马达型号 Model of hydraulic motor	行星减速器型号 Model of planetary reducer	重量 Weight kg
	拉力 Pull force KN	绳速 Rope speed m/min							
EJ80-100.24-ZP	80	0-40	100	6500	17	φ24	GM4-1300D2401	EC5-5	800
EJ100-90.28-ZP	100	0-40	90	11000	17	φ28	GM5-2000D2401	EC5-5.5	1100

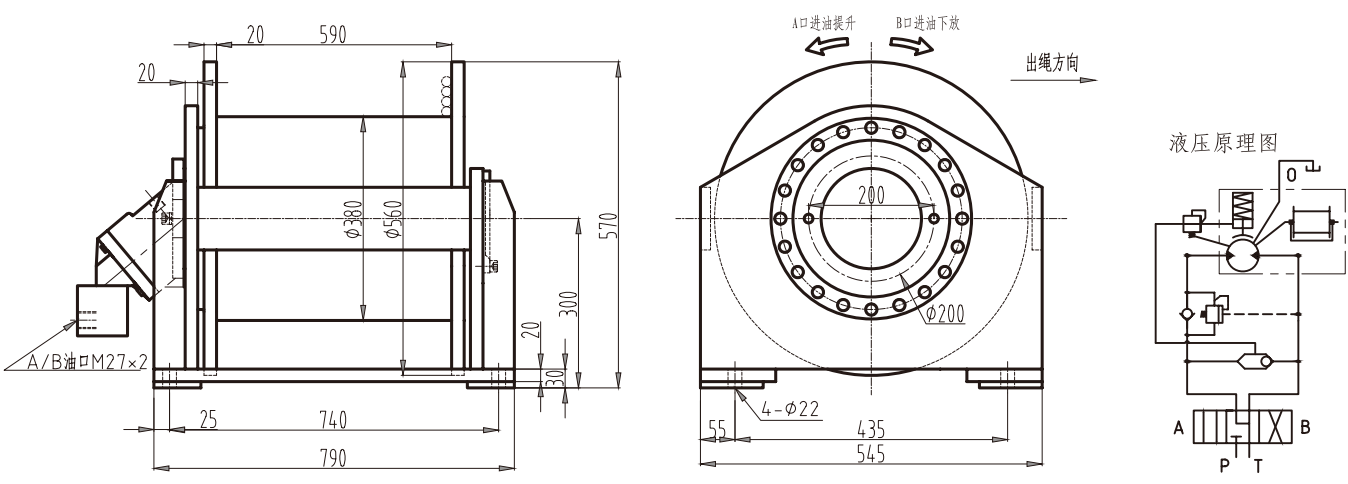
技术参数 TECHNICAL PARAMETER

型号 Model	第一层 First Layer		容绳量 Rope Capacity m	总排量 Total Displacement ml/r	工作压差 Difference of Working Pressures Mpa	钢丝绳直径 Steel wire Diameter m	液压马达型号 Model of hydraulic motor	行星减速器型号 Model of planetary reducer	重量 Weight kg
	拉力 Pull force KN	绳速 Rope speed m/min							
EJ120-170.30-ZP	120	0-30	170	13750	18	φ30	GM6-2500D4801	EC6-5.5	1600
EJ150-150.32-ZP	150	0-30	150	16500	18	φ32	GM6-3000D4801	EC6-5.5	1800

EH 30



EH 50



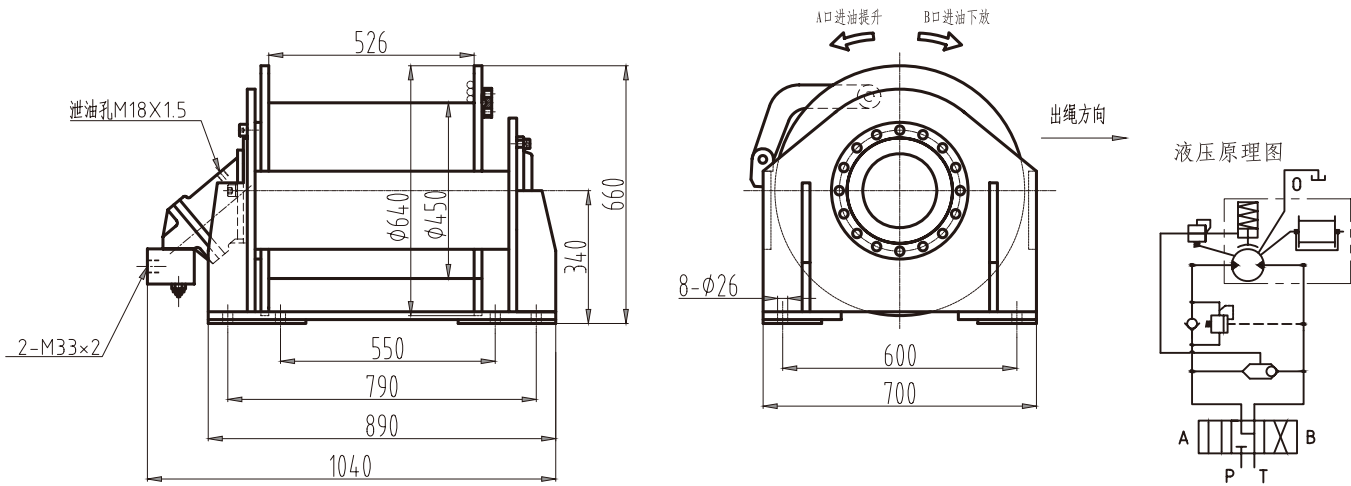
技术参数 TECHNICAL PARAMETER

型号 Model	钢丝绳层数 Layer	拉力 Pull force K/N	绳速 Rope speed m/min	容量 Rope Capacity m	总排量 Total Displacement ml/r	工作压差 Difference of Working Pressures Mpa	钢丝绳直径 Steel wire Diameter m	液压马达 Hydraulic motor	减速机速比 Ratio I
EH20-100.14-ZP	1	20	75	29	1195	20	φ14	A2F45/ 6.1W-VZL10	26.5
	2	15	82	60					
	3	12	90	95					
EH30-100.14-ZP	1	30	53	29	2095	20	φ14	A2F56/ 6.1W-VZL10	37.4
	2	25	60	60					
	3	20	67	95					

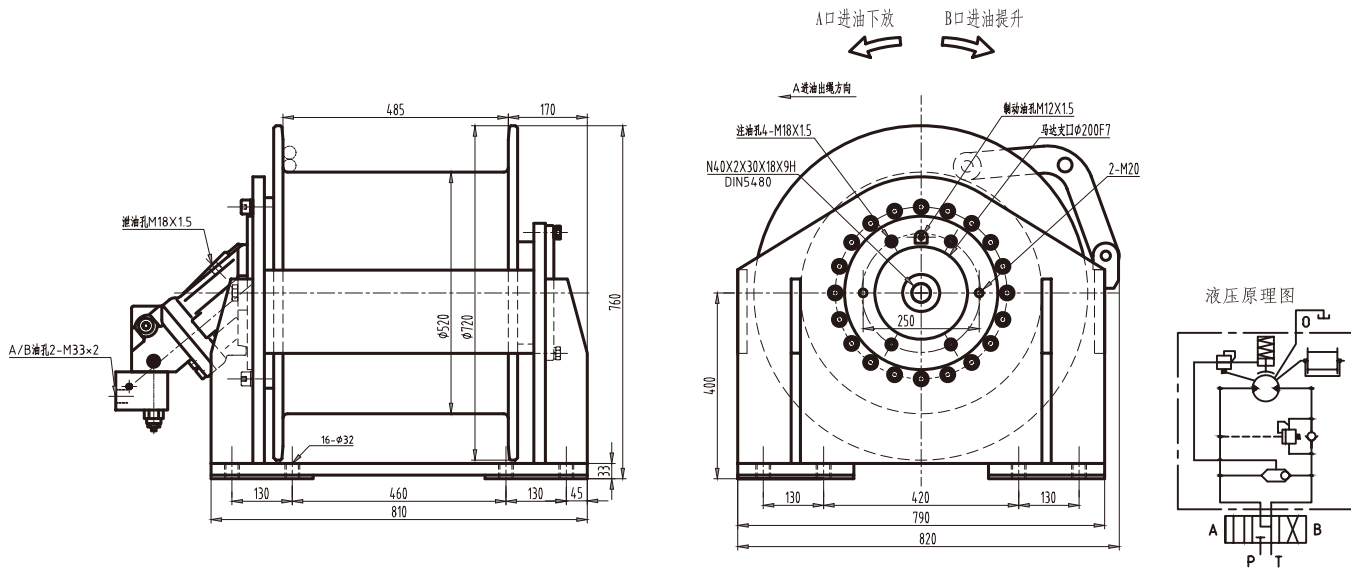
技术参数 TECHNICAL PARAMETER

型号 Model	钢丝绳层数 Layer	拉力 Pull force K/N	绳速 Rope speed m/min	容量 Rope Capacity m	总排量 Total Displacement ml/r	工作压差 Difference of Working Pressures Mpa	钢丝绳直径 Steel wire Diameter m	液压马达 Hydraulic motor	减速机速比 Ratio I
EH40-165.16-ZP	1	40	31	50	4368	20	φ16	A2FE56 /6.1W-VZL10	77.9
	2	34	34	105					
	3	28	38	165					
EH50-165.16-ZP	1	50	31	50	6464	20	φ16	A2FE63 /6.1W-VZL10	102.6
	2	43	34	105					
	3	35	38	165					

EH 80



EH 120



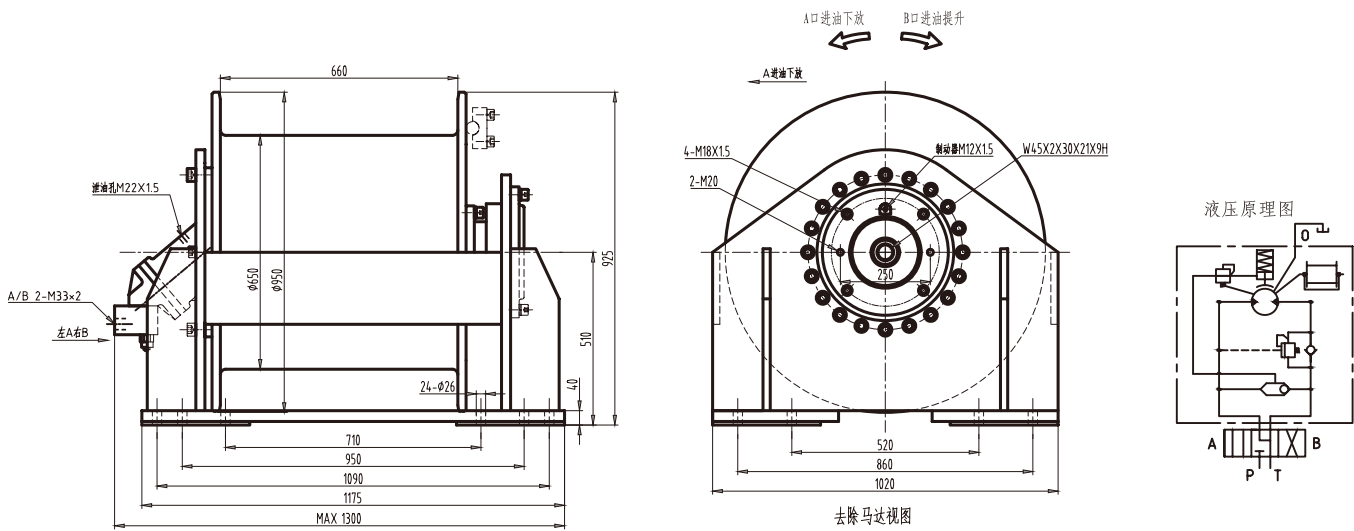
技术参数 TECHNICAL PARAMETER

型号 Model	钢丝绳层数 Layer	拉力 Pull force K/N	绳速 Rope speed m/min	容量 Rope Capacity m	总排量 Total Displacement ml/r	工作压差 Difference of Working Pressures Mpa	钢丝绳 直径 Steel wire Diameter m	液压马达 Hydraulic motor	减速机速比 Ratio I
EH60-110.20-ZP	1	60	35	36	8000	20	φ20	A2FE80 /6.1W-VAL10	1100
	2	50	40	76					
	3	40	46	113					
EH80-110.20-ZP	1	80	29	36	10530	20	φ20	A2FE90 /6.1W-VAL10	116.2
	2	70	34	76					
	3	60	40	113					

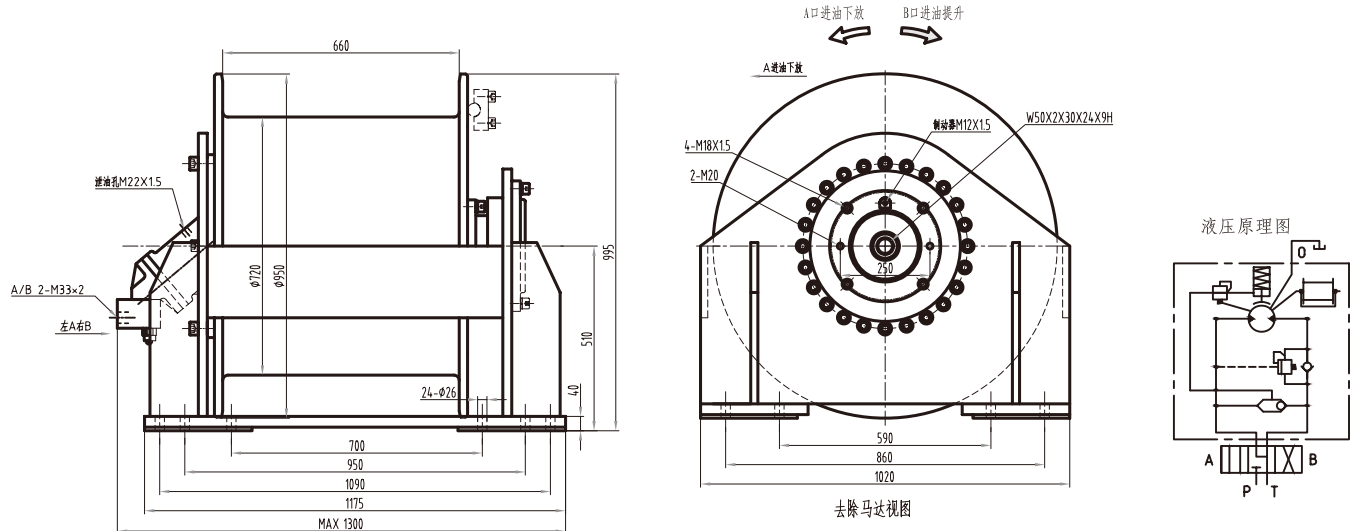
技术参数 TECHNICAL PARAMETER

型号 Model	钢丝绳层数 Layer	拉力 Pull force K/N	绳速 Rope speed m/min	容量 Rope Capacity m	总排量 Total Displacement ml/r	工作压差 Difference of Working Pressures Mpa	钢丝绳 直径 Steel wire Diameter m	液压马达 Hydraulic motor	减速机速比 Ratio I
EH100-100.26-ZP	1	100	37	29	11342	22	φ26	A2FE107/ 6.1W-VZL10	106
	2	85	41	62					
	3	72	46	100					
EH120-100.26-ZP	1	120	27	29	17484	22	φ26	A2FE125/ 6.1W-VZL10	139.9
	2	105	30	62					
	3	95	34	100					

EH 180



EH 250



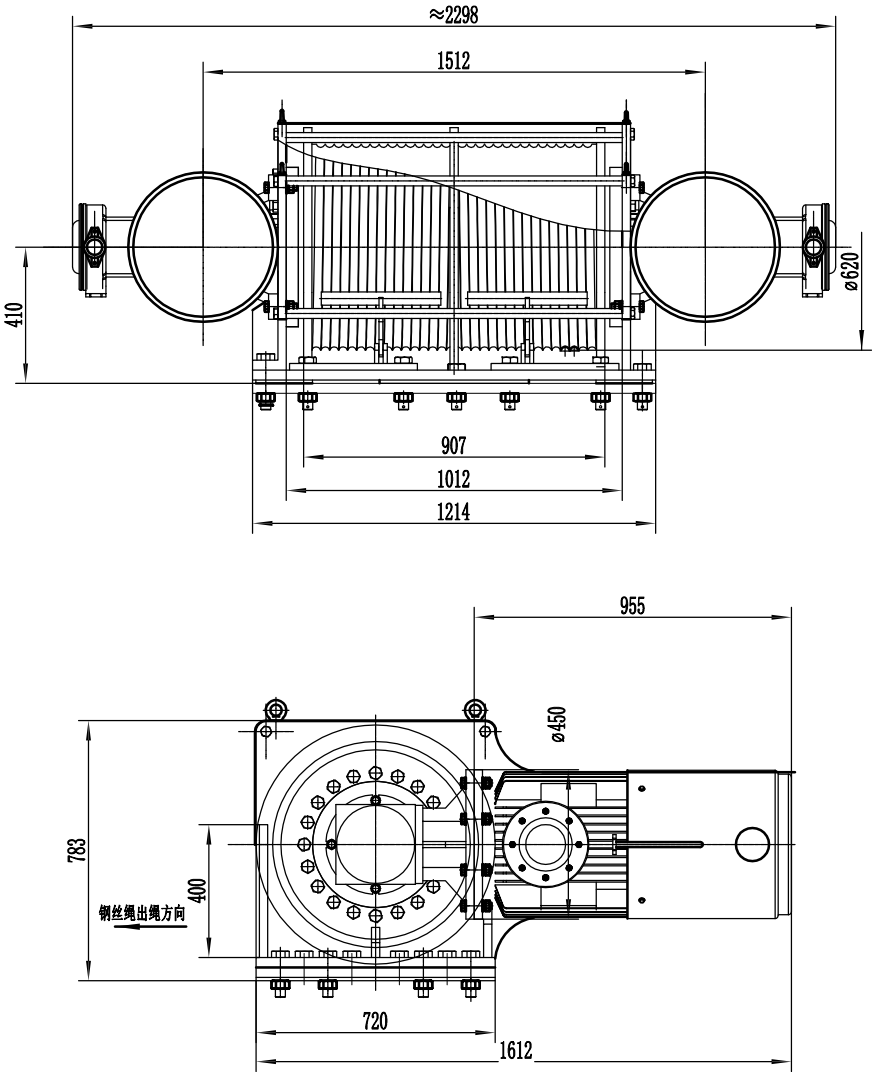
技术参数
 TECHNICAL PARAMETER

型号 Model	钢丝绳层数 Layer	拉力 Pull force K/N	绳速 Rope speed m/min	容量 Rope Capacity m	总排量 Total Displacement ml/r	工作压差 Difference of Working Pressures Mpa	钢丝绳 直径 Steel wire Diameter m	液压马达 Hydraulic motor	减速机速比 Ratio I
EH150-150.30-ZP	1	150	32	45	23984	25	φ30	A2FE160 /6.1W-VAL10	149.9
	2	130	35	95					
	3	110	40	150					
EH180-150.30-ZP	1	180	27	45	29680	25	φ30	A2FE160 /6.1W-VAL10	185.5
	2	160	31	95					
	3	130	35	150					

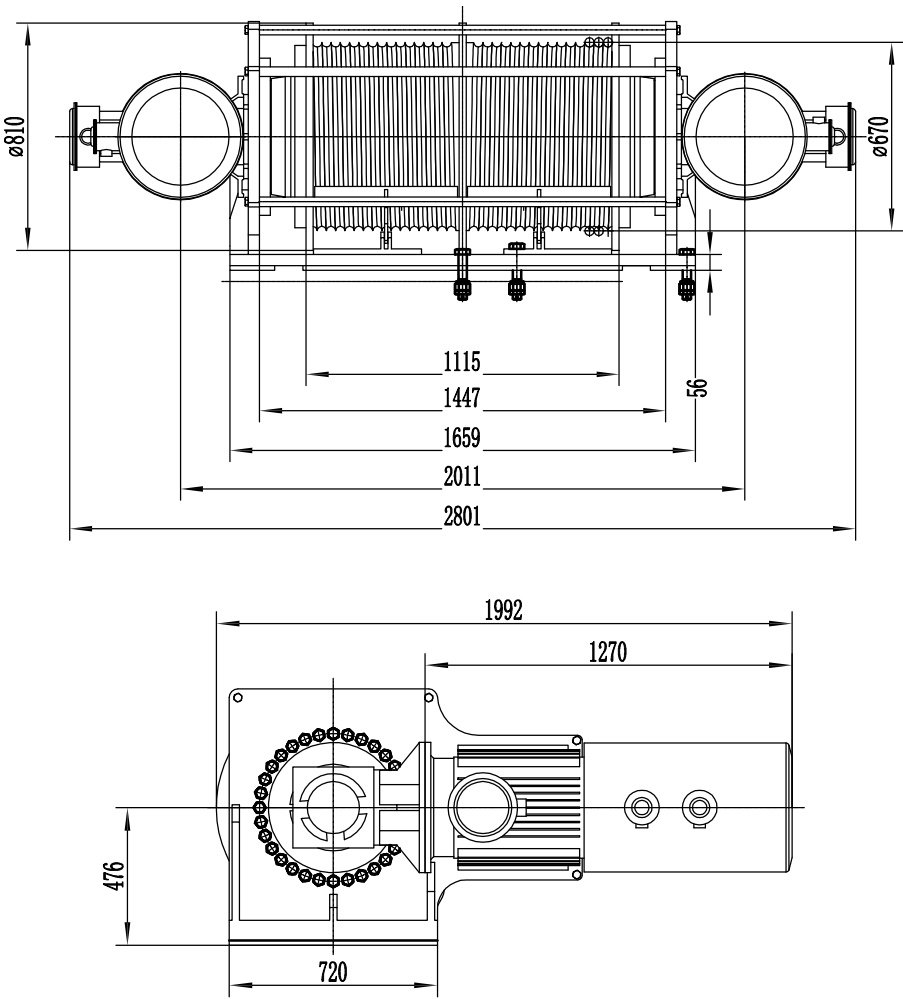
技术参数
 TECHNICAL PARAMETER

型号 Model	钢丝绳层数 Layer	拉力 Pull force K/N	绳速 Rope speed m/min	容量 Rope Capacity m	总排量 Total Displacement ml/r	工作压差 Difference of Working Pressures Mpa	钢丝绳 直径 Steel wire Diameter m	液压马达 Hydraulic motor	减速机速比 Ratio I
EH200-135.36-ZP	1	200	31	40	31302	25	φ36	A2FE180/ 6.1W-VAL10	173.9
	2	170	34	85					
	3	140	38	135					
EH250-135.36-ZP	1	250	26	40	38700	25	φ36	A2FE180/ 6.1W-VAL10	215
	2	230	29	85					
	3	200	33	135					

EDJ 250



EDJ 350



技术参数 TECHNICAL PARAMETER

型号 Model	钢丝绳层数 Layer	拉力 Pull force K/N	绳速 Rope speed m/min	容绳量 Rope Capacity m	钢丝绳直径 Steel wire diameter m	电机功率 POWER (KW)	电机型号 Hydraulic motor	减速机电比 Ratio I
EDJ250-55.24-ZP	1	250	35	60	φ24	2*37	YBBP-225S	166

技术参数 TECHNICAL PARAMETER

型号 Model	钢丝绳层数 Layer	拉力 Pull force K/N	绳速 Rope speed m/min	容绳量 Rope Capacity m	钢丝绳直径 Steel wire diameter m	电机功率 POWER (KW)	电机型号 Hydraulic motor	减速机电比 Ratio I
EDJ350-55.32-ZP	1	350	40	60	φ32	2*45	YBBP-225M	183