

ini® 意宁液压 INI HYDRAULIC



>>> [Http: //www.china-ini.com](http://www.china-ini.com)



2014 Catalogue

[企业简介] Brief Introduction



意宁液压股份有限公司总部位于宁波市北仑国家级开发区，公司总面积占地 360 余亩，已有建筑面积 150000 m²，注册资金 28100 万元人民币，现有员工 550 人，技术人员占 20% 以上，由享受国务院津贴的国家级液压专家教授级高级工程师任总经理，博士、硕士、高级工程师、工程师、助理工程师组成的省级静液压驱动工程技术中心具有很强的创新研发设计能力。公司有 2 名德国 ZF 公司退休专家作为公司的荣誉员工，常来公司指导和帮助工作。公司已拥有 16 项发明专利，30 项实用新型和外观专利，还有多项发明专利正在审查中。公司专业生产液压泵、液压马达、静液压驱动装置、液压绞车、行星减速机、高精度同步分流器、液压系统成套装置等产品，企业利用自主知识产权生产的产品，已在国内海洋工程、农机、渔船、工程机械、石油、煤矿、地质勘探、船舶、冶金、轻工、园林、环保等行业中广泛应用，并已出口到东南亚、中东、德国、美国、英国、奥地利、荷兰、澳大利亚、土耳其、印度、巴西、俄罗斯、韩国等地区和国家。

公司拥有最新的先进加工设备 350 余台套，其中进口设备占 50% 以上，数控设备占 80% 以上，拥有三坐标测量仪、齿轮测量中心、万能齿轮测量仪、光谱分析仪、全数字超声波探伤仪、数字万能工具显微镜、颗粒计数器等检测仪器 63 台套，已建立了液压泵、液压马达、静液压驱动装置型式试验室、净化装配室和 16 个各种产品的出厂试验台。公司已通过 ISO9001:2008 和 CCSR9001，ISO14001 环境体系认证，清洁生产认证、质量体系认证、CCS 船级社型式认证、CE 认证和欧盟船用设备指令 EC 型式认证。公司已被评定为国家重点扶持的高新技术企业，浙江省和宁波市专利示范企业、宁波市技术创新示范企业，产品已被评为宁波市和浙江省名牌产品。公司多次承担国家火炬计划项目、国家重点新产品项目和国家重大科技成果转化项目。产品多次获得行业、省和宁波市科技进步一、二、三等奖。

The head office of INI HYDRAULIC CO.,LTD is located in Beilun district, Ningbo, a national level industrial area. The company covers a total area of 240,000 sqm, with building area of 150,000 sqm. The register capital is CNY 281,000,000. We have 550 employees, and professional technicians account for more than 20%. We have strong research and develop capability. The provincial level R&D team consists of our general manager (who is a national level hydraulic expert & professional senior engineer that takes special subsidy awarded by the state council), doctors, masters, senior engineers, engineers, and assistant engineers. We invited two retired experts from ZF Company in Germany to help us. We got 16 invention patents and 30 practical innovation and figure patents. Several patents are under reviewing. We specialize in manufacturing hydraulic pumps, hydraulic motors, hydrostatic drives, hydraulic winches, planetary gearboxes, high precision synchronizing flow dividers and whole set of hydraulic systems.

These patented products have been widely used in offshore application, agriculture, fishing, construction machinery, petroleum, coal mining, geological prospecting, marine, metallurgical, light industry, and environmental protection and other industries. Our products have been exported to USA, UK, Austria, Netherlands, Australia, Russia, Germany, Turkey, Brazil, Southeast Asia, Middle East, India, Russia, Korea and other countries in the world.

We have more than 350 sets of advanced manufacturing equipment. 50% were imported, and CNC machines account for more than 80%. We have 63 sets of inspection machines, including three 3D measuring machines, gear measuring machines, universal gear measuring machines, optical spectrum analyzers, digital ultrasonic inspection machines, universal toolmaker's microscope, and particle counters. We set up type approval test labs for hydraulic pumps, hydraulic motors and hydrostatic drives, dust free assembly workshop and 16 test stands to do factory tests for various types of products.

We got ISO9001:2008, CCSR9001, and ISO14001 certification, clean production certification, CCS certification, CE certification, and EC type MED certification. Our company was honored as national level high-tech enterprise, supported by the government, patent pilot enterprise in Zhejiang province and Ningbo city, and Ningbo high-tech innovation enterprise. Our products are regarded as famous brand in Ningbo. We have been responsible for national torch projects and major scientific & technological achievements transformation projects several times. We won the first prize, second prize and third prize of Zhengjiang and Ningbo science and technology advancement award several times.

[企业展示] Company Shows



公司大门
Company Gate



公司全景
Company Overview



研发中心
R&D Center



工艺研究所
Mechanical Technology Institute



与德国专家技术交流
Communication with Expert



德国专家在本公司办公
German Experts Study



马达装配车间
Motor Assembly



静液压驱动装配车间
Hydrostatic Assembly



绞车装配车间
Winch Assembly



一号金工车间
1st Metalworking Workshop



二号金工车间
2nd Metalworking Workshop



三号金工车间
3rd Metalworking Workshop



绞车试验台
Winch Testing



静液压驱动试验室
Hydrostatic Lab



齿轮磨床
Gear Grinding Machine



三坐标测量仪
Three Coordinate Measuring Machine



瑞士进口数控精密万能磨床
CNC precision universal grinding machine imported from Switzerland



德国 / 日本进口卧式加工中心
Horizontal machining center imported from Germany and Japan



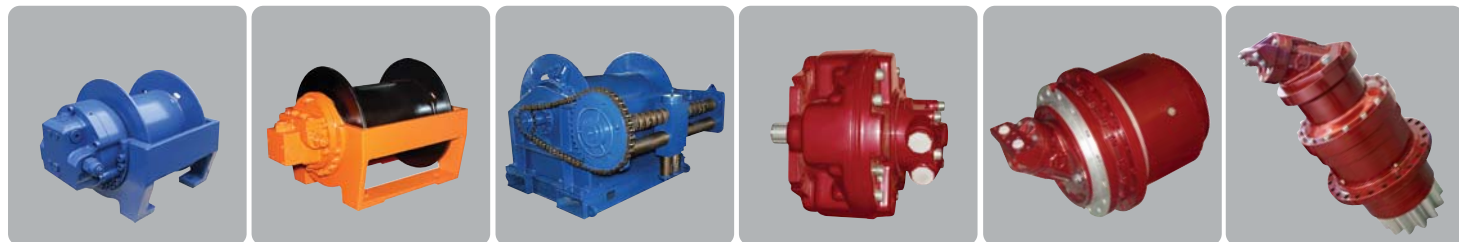
德国 / 日本进口双主轴车铣复合加工中心
Double-spindle turning & milling & boring machining center imported from Germany and Japan



日本进口双主轴车铣复合自动加工中心
Automatic double-spindle turning & milling & boring machining center imported from Japan

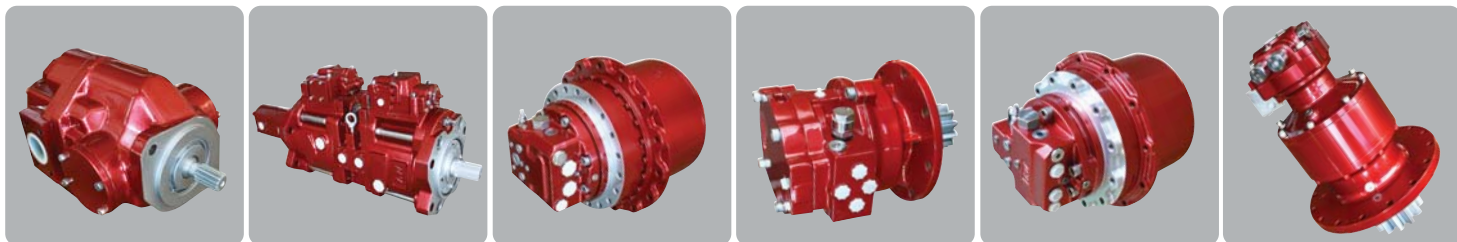
产品展示 & 应用

Product Shows & Applications

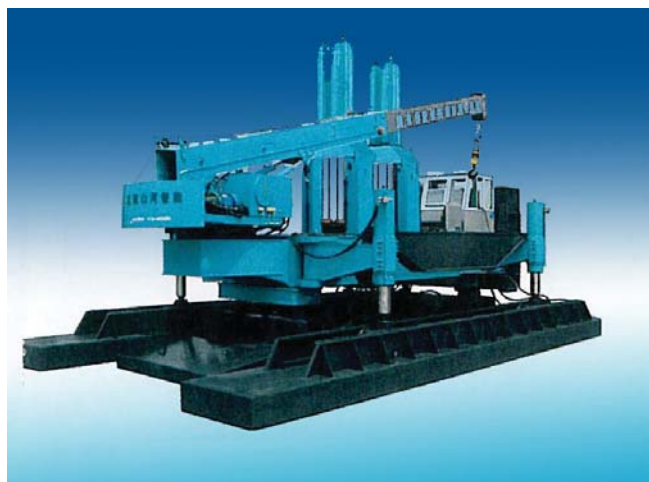


产品展示 & 应用

Product Shows & Applications



意
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INI HYDRAULIC



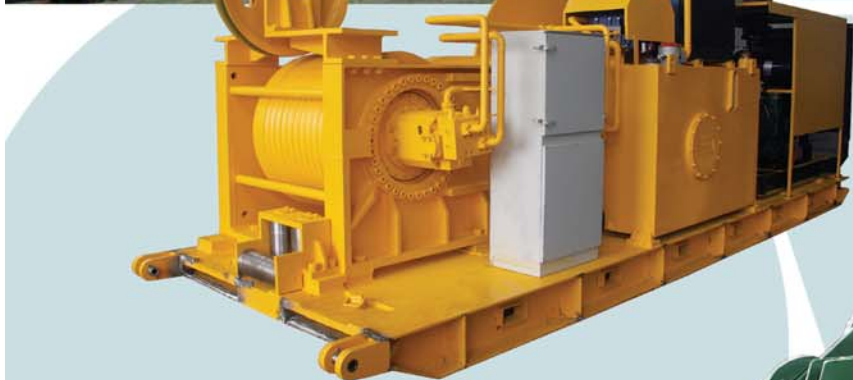
产品展示 & 应用

Product Shows & Applications

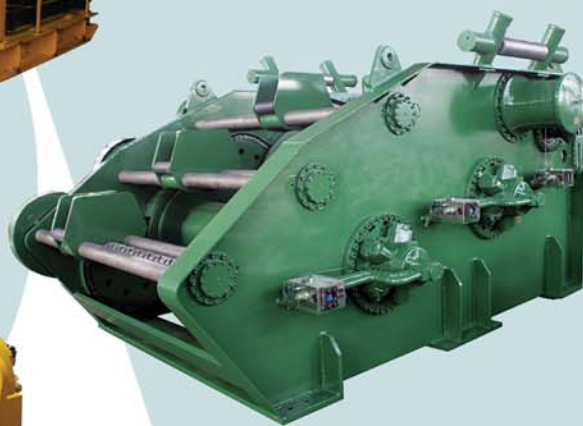


产品展示 & 应用

Product Shows & Applications



意宁液压
INI HYDRAULIC



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2012 版:

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Section 1: hydraulic pump, hydraulic motor, hydraulic system, hydraulic power pack | 共 159 页 total 159 pages |
| ② 第二册: 液压传动装置
Section 2: hydraulic transmission drive | 共 83 页 total 83 pages |
| ③ 第三册: 行星减速机(含液压制动器)
Section 3: planetary gearbox (with hydraulic brake) | 共 56 页 total 56 pages |
| ④ 第四册: 绞车
Section 4: winch | 共 139 页 total 139 pages |

2013 版:

- | | |
|--|-----------------------|
| ① 第五册: 螺纹插装阀
Section 5: Screw-in cartridge valves | 共 20 页 total 20 pages |
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2014 版:

- | | |
|--|-------------------------|
| ① 第一册: 液压传动装置
Section 1: hydraulic transmission drive | 共 118 页 total 118 pages |
| ② 第二册: 绞车
Section 2: winch | 共 162 页 total 162 pages |

第一册: 液压传动装置

Section 1:Hydraulic Transmission Drive

- | | |
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IAP/IAM 系列定量斜盘式轴向柱塞泵 / 马达

IAP/IAM Serial Fixed Displacement Swash Plate Axial Piston Pump/Motor

1、概述 Description

直轴斜盘结构的轴向柱塞元件，具有固定排量，在开式或闭式回路中用作静液压传动的泵和马达。当作为泵工作时，流量与驱动转速和排量成正比。当作为马达工作时，输出转速与流量成正比而与排量成反比。输出扭矩随高压侧与低压侧之间的压差而加大。

Axial piston swash plate unit is designed with fixed displacement, and used as either pump or motor in hydrostatic driver, in open or closed circuit. If operated as a pump, the flow is proportional to the drive speed and displacement. If operated as a motor, the output speed is proportional to the flow and inversely proportional to displacement. The output torque varies with the pressure drop between inlet and outlet ports.

2、特点 Special Features

- 带有久经考验的球面配流盘的高性能旋转组件具有自动对中、圆周速度低、效率高的优点。

High performance rotary group with well-proven spherical control area has the advantages: self-centering, low peripheral speed, high efficiency.

- 卓越自吸能力和转速

Excellent self-priming capability and max. speed.

- ISO 安装法兰，轴向和径向尺寸小，结构紧凑，功率集成度高。

ISO mounting flange, compact design for axial and radial dimensions, high specific power.

- 马达控制用的各种阀可以安装在马达上。

Various control valves are available for IAM motor.

- 噪音低。

Low noise.

订货型号 Ordering Code

斜盘式定量柱塞泵: IAP

Swash plate fixed pump: IAP

斜盘式定量柱塞马达: IAM

Swash plate fixed motor: IAM

排量 (ml/rev) Displacement

25	28	32	40	45	50	56	63
70	80	90	100	107	112	120	125
140	160	180					

旋转方向 (面向输出轴看)

顺时针方向: R Direction of rotation

逆时针方向: L

双向转动: W

IAP 63 R N A 1

通油盘 (Plate): 1、2、3、4、5

轴伸结构 Shaft end

I型 II型

DIN5480花键 Z A Spline

平键 P B Parallel key

密封 Seals

丁腈橡胶 N

氟橡胶 F

订货示例

IAM63WNA3

IAM定量马达

排量: 63ml/rev

旋转方向: W双向

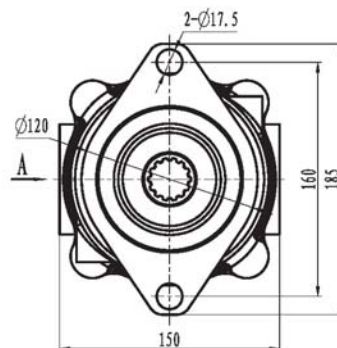
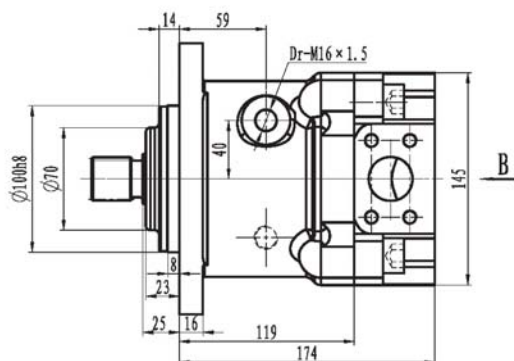
密封: N丁腈橡胶

轴伸: A花键

通油盘: 3号通油盘

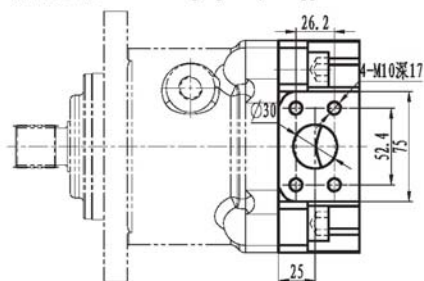
IAP/IAM 技术参数 Specifications

排量(ml/rev) Displacement Vg (ml/rev)	最高转速 Max. Speed Ω_{\max} (rpm)	最高压力 Max. Pressure Pmax (bar)	当量扭矩 Specific Torque Tk (N. m/bar)	扭矩在 Torque At P=350bar	壳体注油量 Case Volume L	质量 Mass Kg
25	3500	350	0.398	139.3	0.3	20
28	3500	350	0.446	156.1	0.3	20
32	3500	350	0.509	178.2	0.3	20
40	3500	350	0.637	222.9	0.3	20
45	3500	350	0.725	253.8	0.5	28
50	3500	350	0.796	278.6	0.5	28
56	3500	350	0.89	280	0.5	28
63	3500	350	1.003	351	0.5	28
70	3000	350	1.115	390.2	0.7	35
80	3000	350	1.274	445.9	0.7	35
90	3000	350	1.433	501.6	0.7	35
100	3000	350	1.592	557.2	0.9	42
107	3000	350	1.704	596.4	0.9	42
112	3000	350	1.783	624.1	0.9	42
120	3000	350	1.91	668.5	0.9	42
125	3000	350	1.99	696.5	1.1	51
140	3000	350	2.229	780.2	1.1	51
160	2500	350	2.547	891.5	1.1	51
180	2250	350	2.866	1003.1	1.1	51

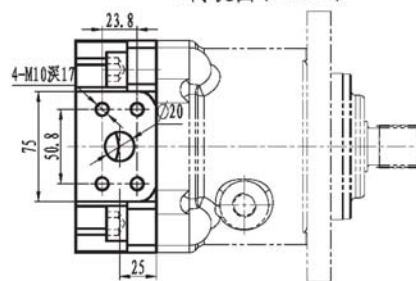


通油盘型式: 1 用于泵 (开式系统) Used as pump in open circuits

1-侧面法兰油口 SAE flange ports, at opposite side

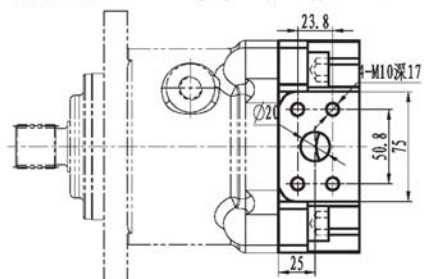


A向视图 (view A)

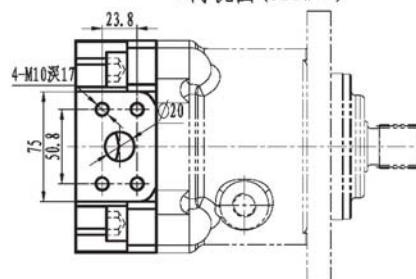


通油盘型式: 2 用于马达 (开式、闭式系统) Used as pump or motor in open or closed circuits

2-侧面法兰油口 SAE flange ports, at opposite side

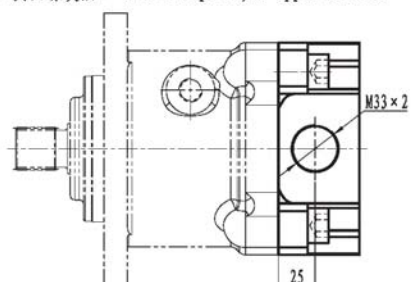


A向视图 (view A)

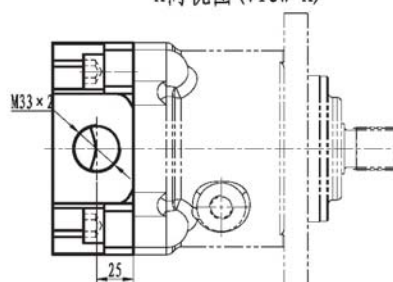


通油盘型式: 3 用于马达 (开式、闭式系统) Used as motor in open or closed circuits

3-侧面螺纹油口 Threaded ports, at opposite side

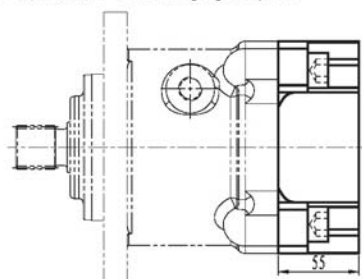


A向视图 (view A)

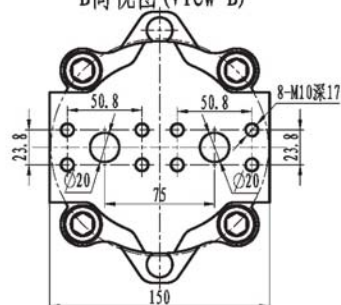


通油盘型式: 4 用于马达 (开式、闭式系统) Used as motor in open or closed circuits

4-端面法兰油口 SAE flange ports, rear

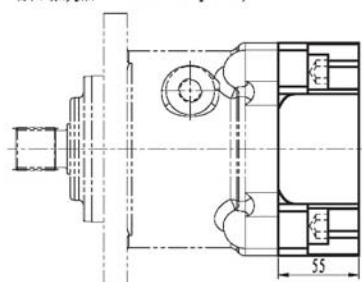


B向视图 (View B)

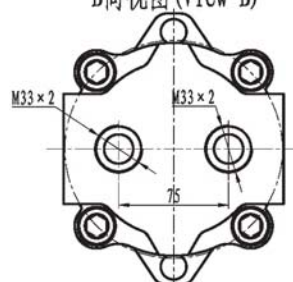


通油盘型式: 5 用于马达 (开式、闭式系统) Used as motor in open or closed circuits

5-端面螺纹油口 Threaded ports, rear

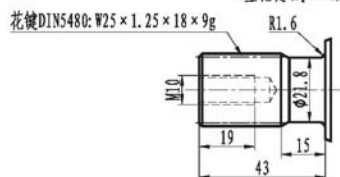


B向视图 (View B)

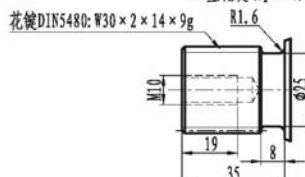


轴伸结构 Shaft end

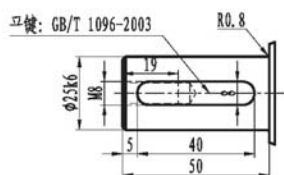
I型花键 (spline)



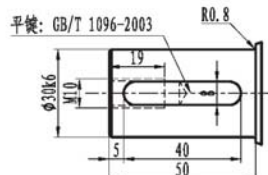
II型花键 (spline)

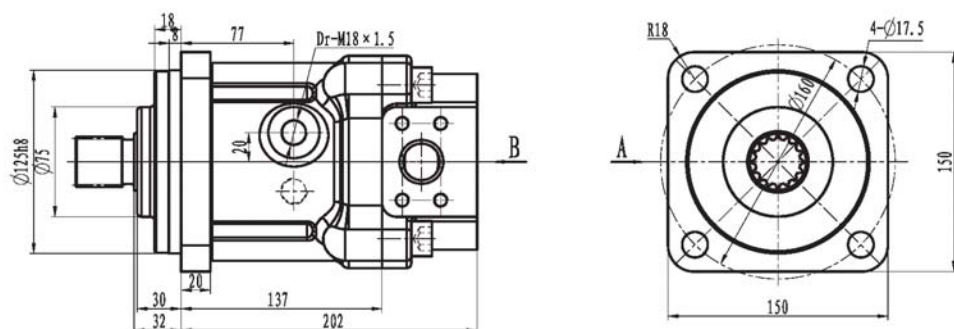


I型平键 (parallel key)



II型平键 (parallel key)

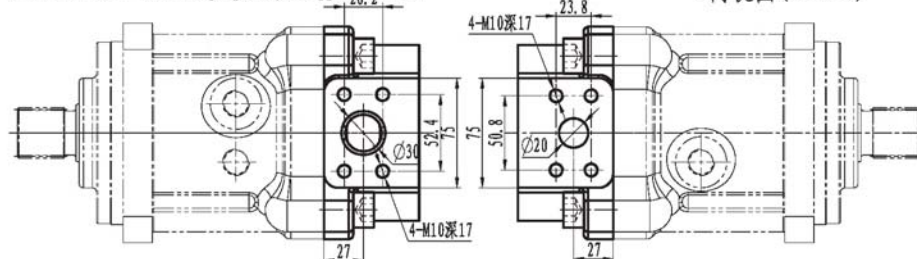




通油盘型式: 1 用于泵 (开式系统) Used as pump in open circuits

1-侧面法兰油口 SAE flange ports, at opposite side

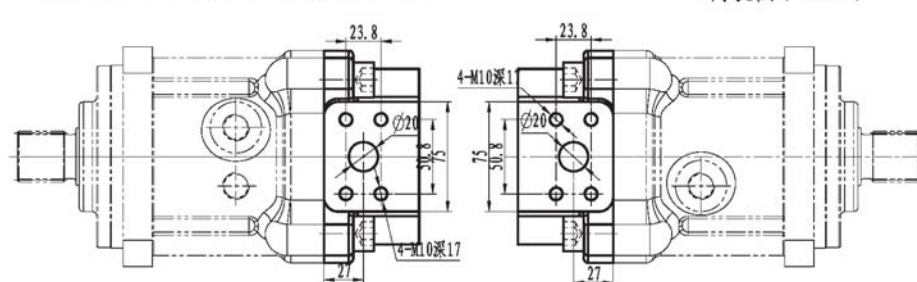
A向视图 (view A)



通油盘型式: 2 用于马达 (开式、闭式系统) Used as pump or motor in open or closed circuits

2-侧面法兰油口 SAE flange ports, at opposite side

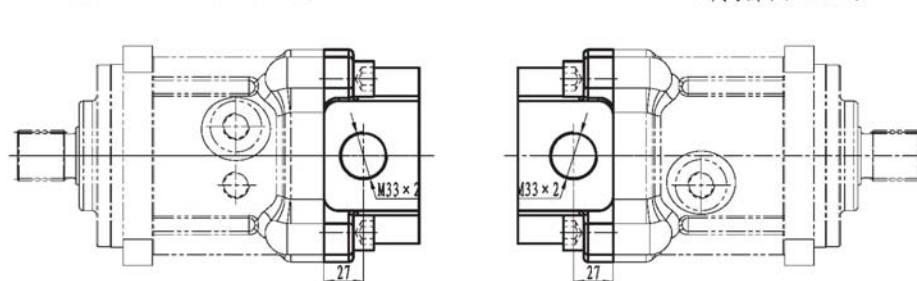
A向视图 (view A)



通油盘型式: 3 用于马达 (开式、闭式系统) Used as motor in open or closed circuits

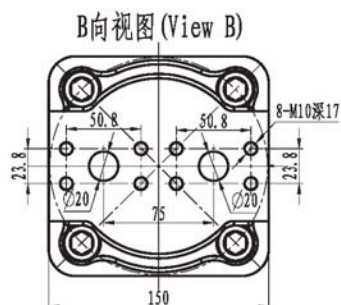
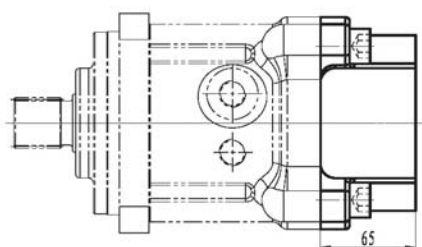
3-侧面螺纹油口 Threaded ports, at opposite side

A向视图 (view A)



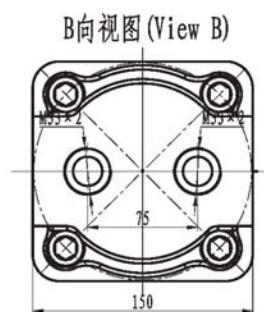
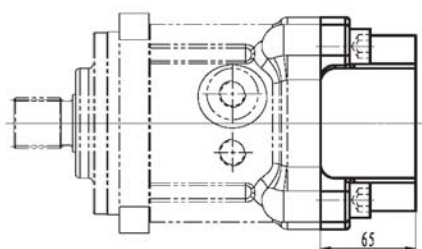
通油盘型式: 4 用于马达 (开式、闭式系统) Used as motor in open or closed circuits

4-端面法兰油口 SAE flange ports, rear



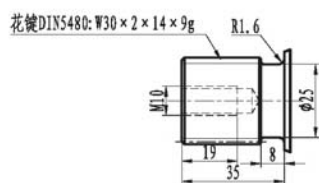
通油盘型式: 5 用于马达 (开式、闭式系统) Used as motor in open or closed circuits

5-端面螺纹油口 Threaded ports, rear

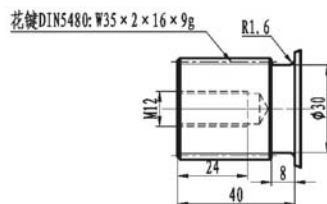


轴伸结构: Shaft end

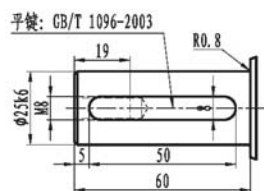
I型花键 (spline)



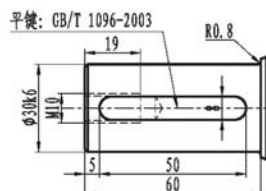
II型花键 (spline)

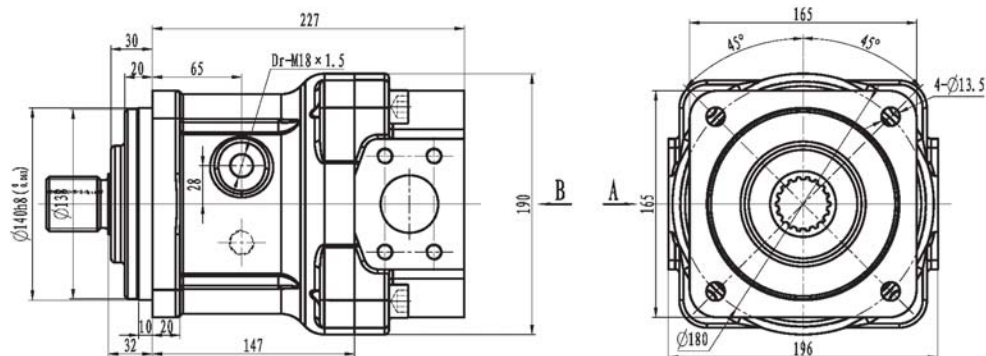


I型平键 (parallel key)



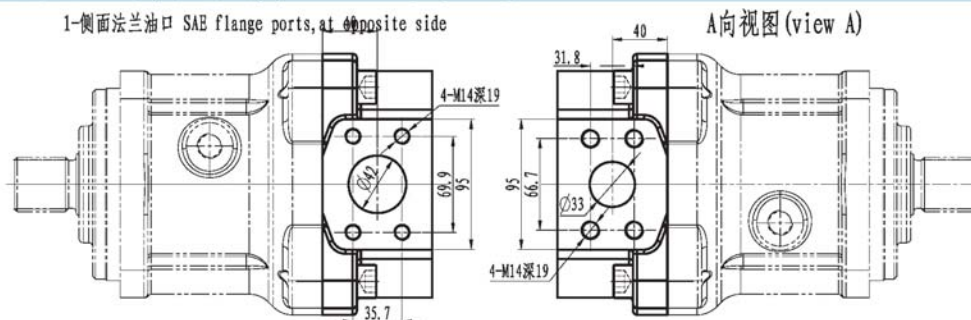
II型平键 (parallel key)





通油盘型式: 1 用于泵 (开式系统) Used as pump in open circuits

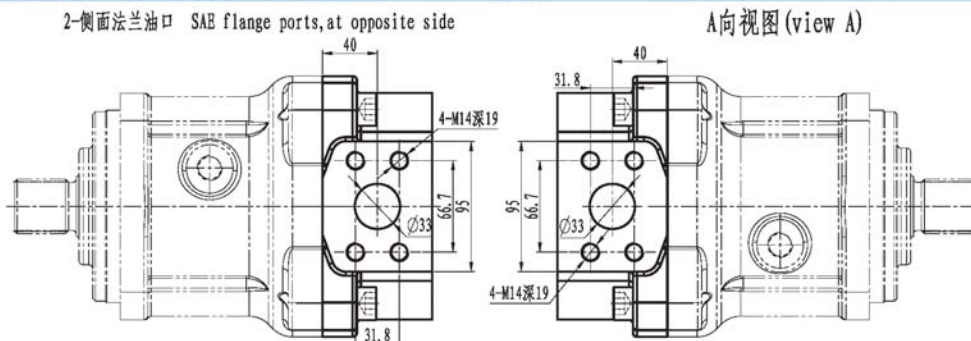
1-侧面法兰油口 SAE flange ports, at opposite side



A向视图 (view A)

通油盘型式: 2 用于马达 (开式、闭式系统) Used as pump or motor in open or closed circuits

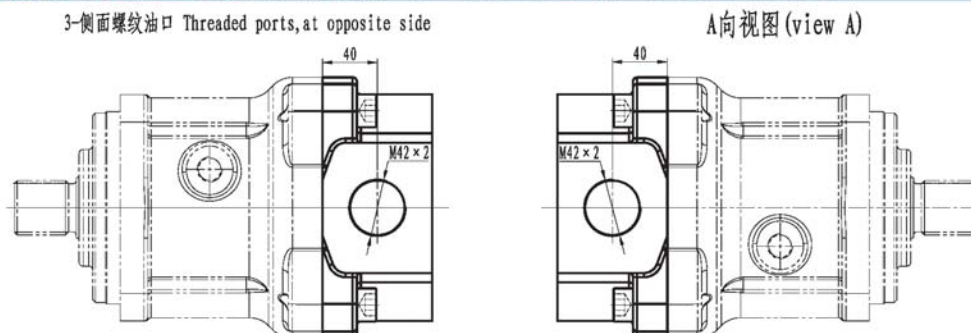
2-侧面法兰油口 SAE flange ports, at opposite side



A向视图 (view A)

通油盘型式: 3 用于马达 (开式、闭式系统) Used as motor in open or closed circuits

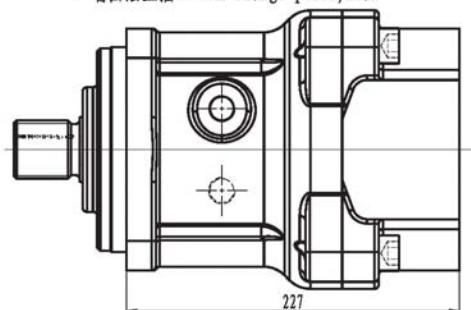
3-侧面螺纹油口 Threaded ports, at opposite side



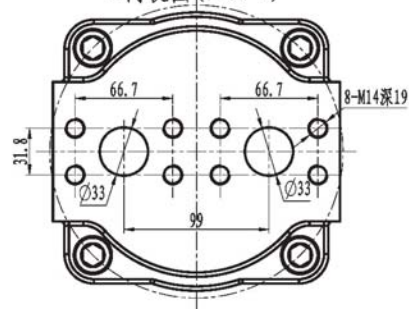
A向视图 (view A)

通油盘型式: 4 用于马达 (开式、闭式系统) Used as motor in open or closed circuits

4-端面法兰油口 SAE flange ports, rear

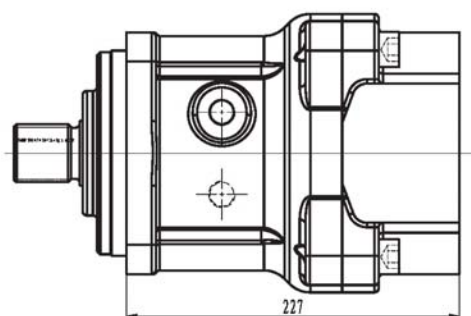


B向视图 (View B)

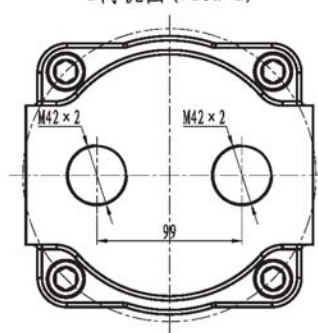


通油盘型式: 5 用于马达 (开式、闭式系统) Used as motor in open or closed circuits

5-端面螺纹油口 Threaded ports, rear



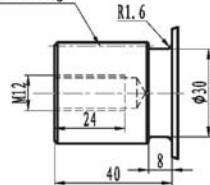
B向视图 (View B)



轴伸结构 Shaft end

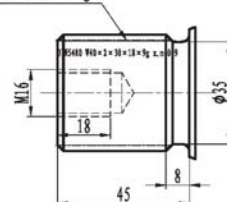
I型花键 (spline)

花键DIN5480: W35 × 2 × 16 × 9g



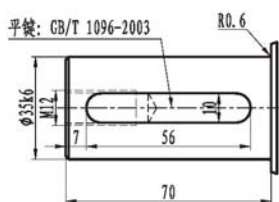
II型花键 (spline)

花键DIN5480: W40 × 2 × 18 × 9g



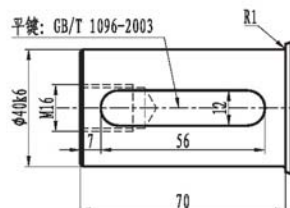
I型平键 (parallel key)

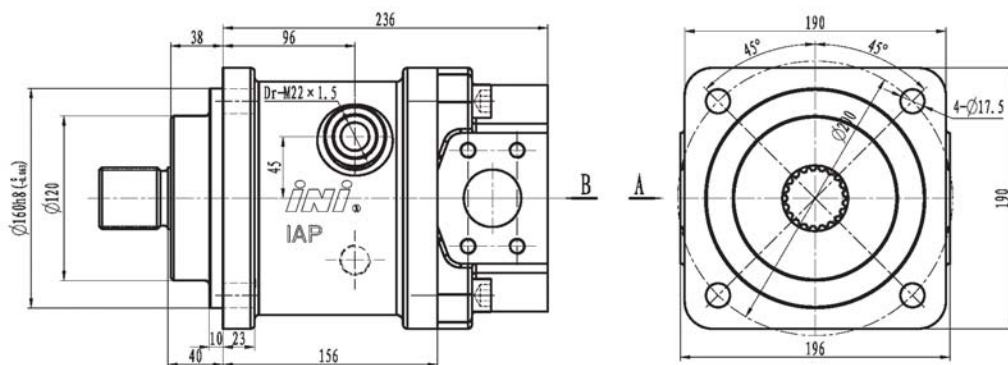
平键: GB/T 1096-2003



II型平键 (parallel key)

平键: GB/T 1096-2003

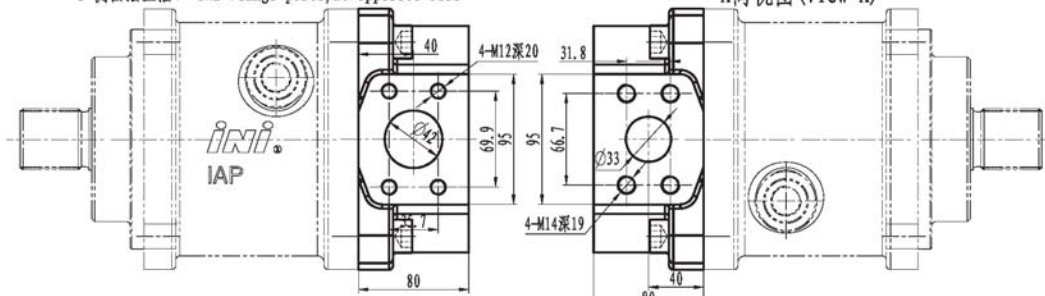




通油盘型式: 1 用于泵 (开式系统) Used as pump in open circuits

1-侧面法兰油口 SAE flange ports, at opposite side

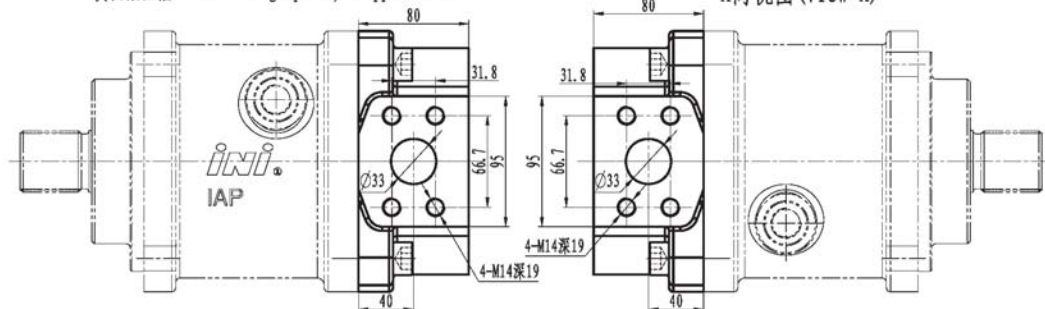
A向视图 (view A)



通油盘型式: 2 用于马达 (开式、闭式系统) Used as pump or motor in open or closed circuits

2-侧面法兰油口 SAE flange ports, at opposite side

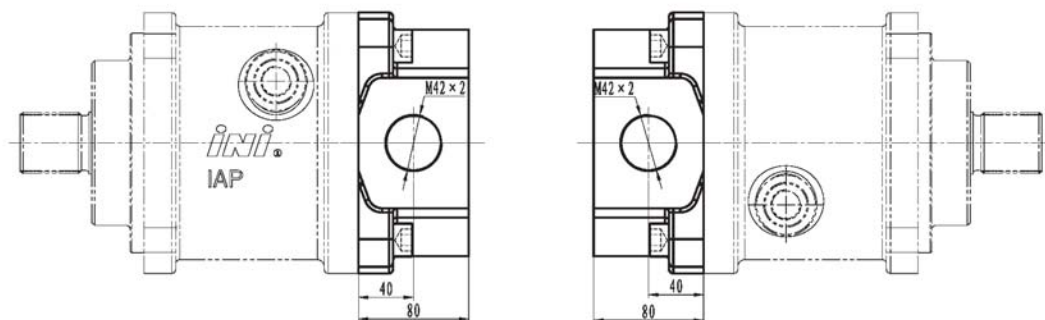
A向视图 (view A)



通油盘型式: 3 用于马达 (开式、闭式系统) Used as motor in open or closed circuits

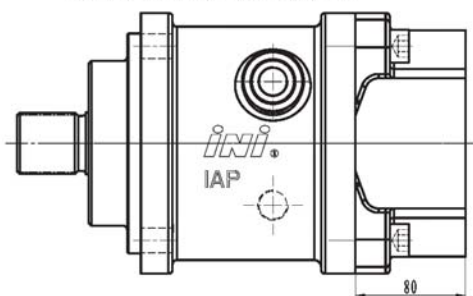
3-侧面螺纹油口 Threaded ports, at opposite side

A向视图 (view A)

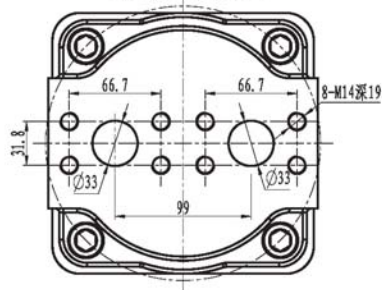


通油盘型式: 4 用于马达 (开式、闭式系统) Used as motor in open or closed circuits

4-端面法兰油口 SAE flange ports, rear

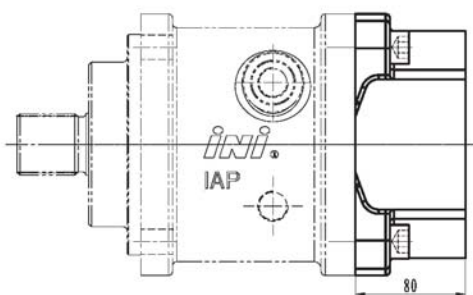


B向视图 (View B)

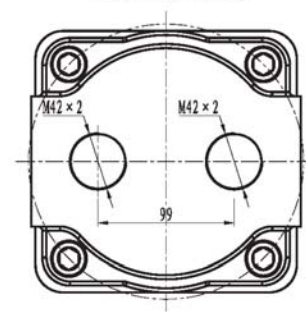


通油盘型式: 5 用于马达 (开式、闭式系统) Used as motor in open or closed circuits

5-端面螺纹油口 Threaded ports, rear



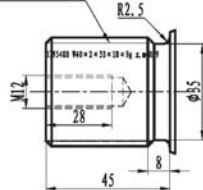
B向视图 (View B)



轴伸结构 Shaft end

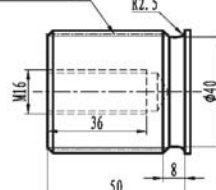
I型花键 (spline)

花键 DIN5480: W40 x 2 x 18 x 9g



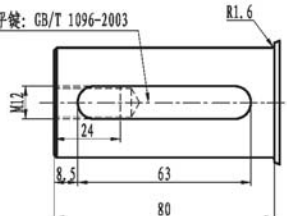
II型花键 (spline)

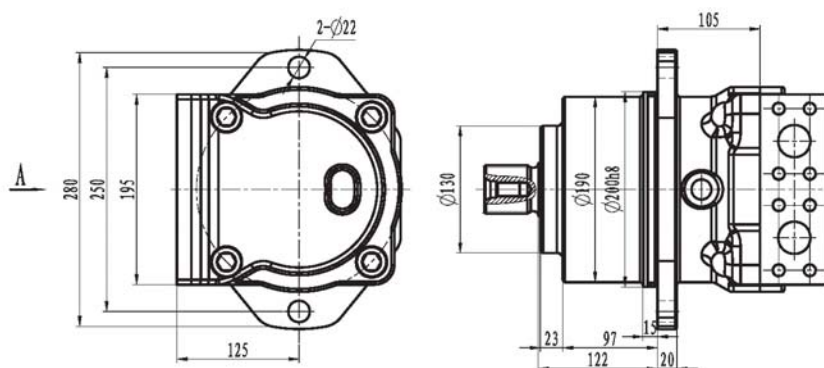
花键 DIN5480: W45 x 2 x 21 x 9g



I型平键 (parallel key)

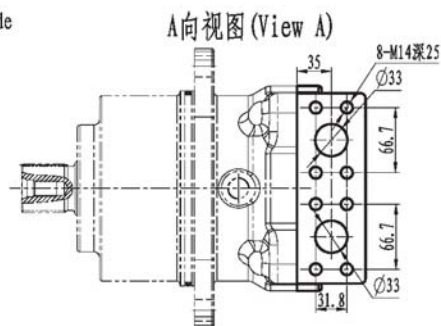
平键: GB/T 1096-2003





通油盘型式: 1 用于泵、马达 (开式、闭式系统) Used as pump or motor in open or closed circuits

1-侧面法兰油口 SAE flange ports, at opposite side

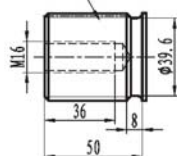


轴伸结构 Shaft end

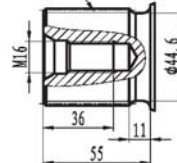
I型花键 (Spline)

II型花键 (Spline)

花键DIN5480: W45 × 2 × 21 × 9g



花键DIN5480: W50 × 2 × 24 × 9g



IGY × × T 系列履带驱动用静液压驱动装置（行走马达）

1、概述

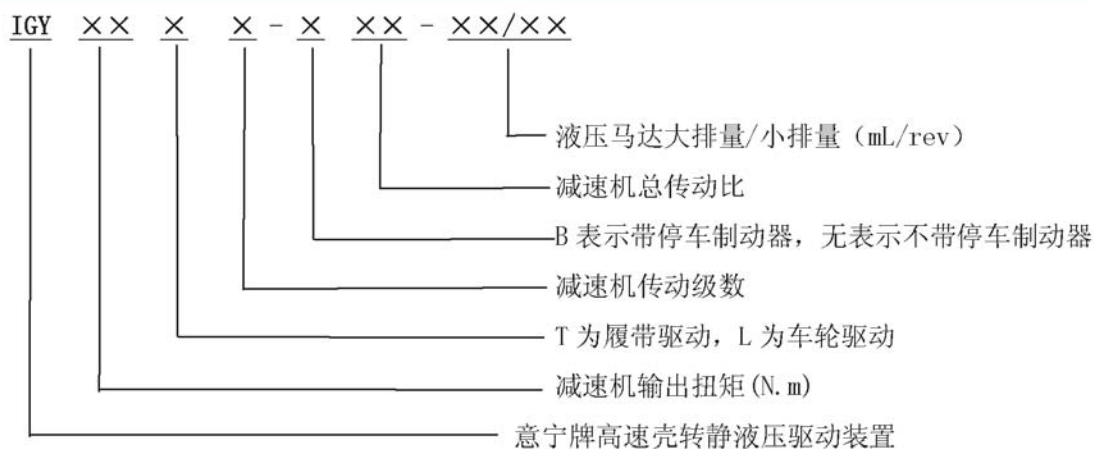
IGY1400~54000T系列产品由集成于减速机内部的可变排量高速轴向柱塞马达、多片式制动器、行星减速机及功能阀块组成。它的特点是工作效率高、可靠性好、结构紧凑、工作压力高、可实现变速驱动，其输出为转动的外壳，可直接驱动履带或车轮。

该系列产品设计中采用了国内外先进技术并结合本公司长期积累的经验，其外形联接尺寸和技术性能参数与日韩公司（如Nabotesco、KYB、NACHI、Doosan、JEIL、JESUNG）进口产品一致。因此可替代日本、韩国进口的同类产品。

所列出的液压驱动装置型号表示公司已投产的产品。我们也可根据客户要求提供其它安装尺寸及不同传动比的型号。如有需要，请与本公司联系。

该类产品已广泛用于履带挖掘机行走驱动，履带式起重机行走驱动，路面铣刨机行走驱动，煤碳掘进机行走驱动，压路机、自行式钻机履带驱动等领域。产品不但已在国内三一重工、徐工集团、中联重科、山河智能、郑州宇通、杭重等重点用户中使用，并出口到东南亚、中东、印度、韩国、荷兰、德国、俄罗斯、意大利、奥地利、丹麦、英国、澳大利亚等国家及地区。

2、型号说明



3、型号举例

IGY4800T2-B45-34/17 表示高速壳转静液压驱动装置输出扭矩为 4800N.m, 用于履带驱动，采用二级行星减速，带停车制动器，总传动比为 45，液压马达低速挡排量为 34mL/rev, 高速挡排量为 17mL/rev。

IGY××T Hydrostatic Drive Series (Travel Motor)

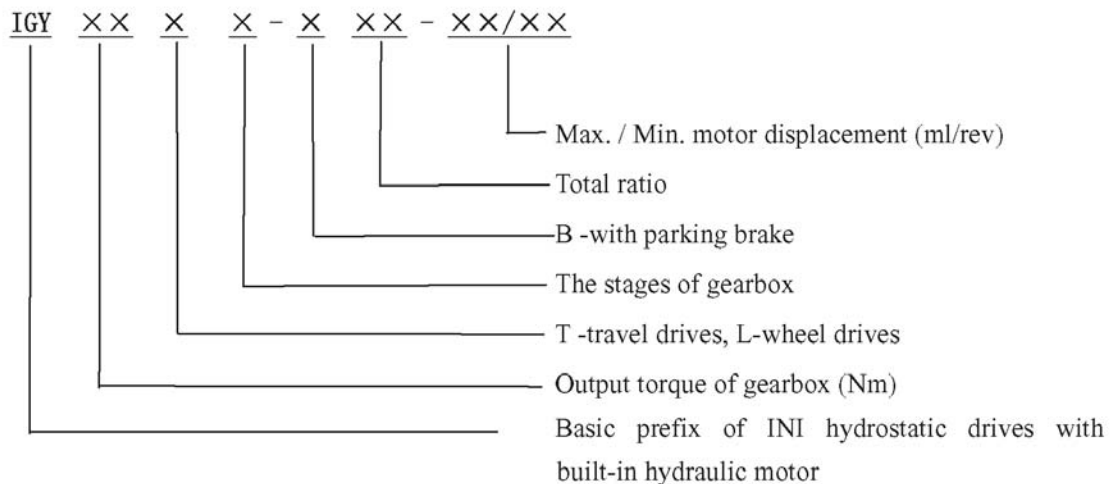
1. Brief Introduction

The IGY××T hydrostatic drive series consist of built-in variable displacement piston motor, multi-disc brake, planetary gearbox, and functional valve block. The drives feature high working efficiency, long life, great reliability, compact design, high working pressure and Hi-low speed switch control. The case-rotation type travel drives not only can be directly installed inside the crawler or wheel, but also can be used in road header or milling machine for power turning drives.

The drives adopt our patented technology and design experience. The Dimensions and technical performance of the drives conform to Nebtesco, KYB, Nachi, and TONGMYUNG. So our drives can also be used for replacement.

The drives described in this catalog are of the standard type. Other design variants with different ratio, dimensions, and power characteristics are available if so requested for specific applications. The drives have been widely applied in crawler excavator, crawler cranes, road milling machine, road header, road roller, track vehicles, aerial platform, and self-propel drill rigs. The drives not only have been used by domestic customer such as SANY, XCMG, ZOOMLION, but also have been exported to Southeast Asia, Middle East, India, South Korea, Netherlands, Germany and Russia and so on.

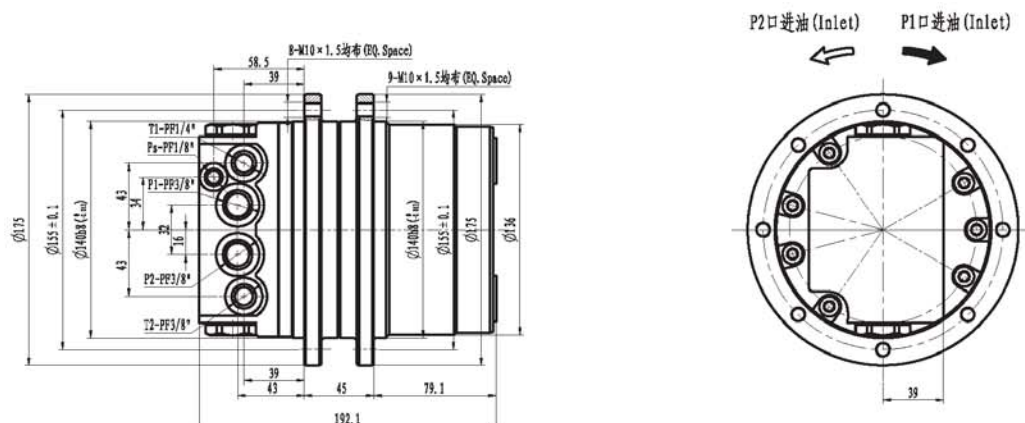
2. Model Options



3. Options Example

IGY4800T2-B45-34/17 represents that the drive has output torque of 4800Nm, two stages planetary gearbox for travel drives with a total ratio of 45, fitted with a multi-disc parking brake, and high speed axial hydraulic motor. The hydraulic motor has a variable displacement (two speed) of 34ml/rev in low speed position and 17ml/rev in high speed position.

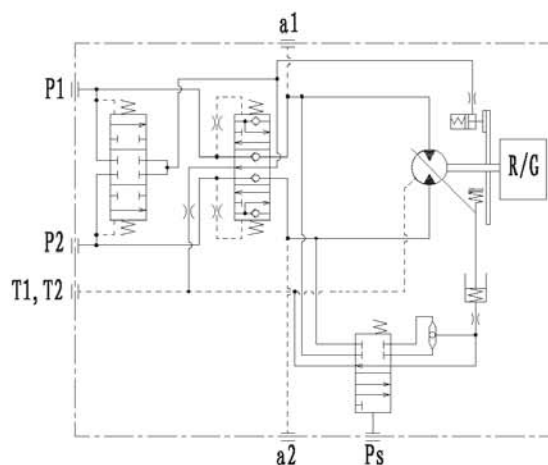
外形尺寸 Dimensions



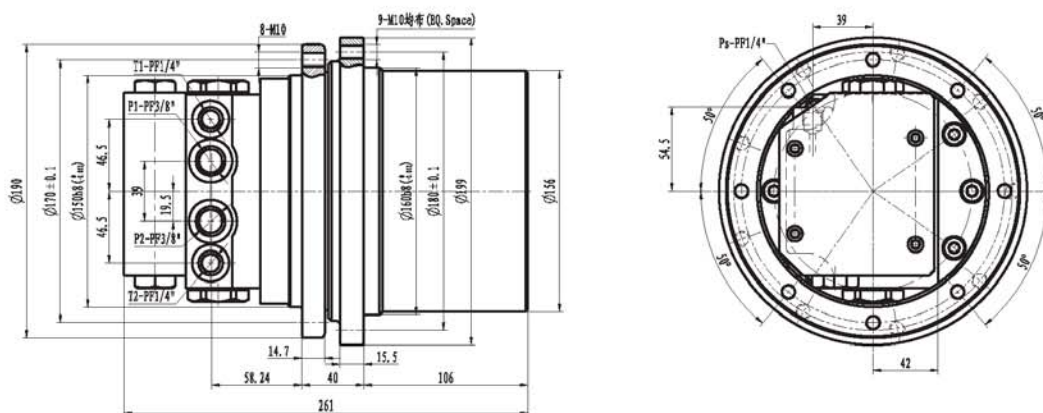
技术参数 Specifications

最大输出扭矩 Max. Output Torque	最大总排量 Max. Total Displacement	液压马达排量 Motor Displacement	传动比 Gear Ratio	最高转速 Max. Speed	最大流量 Max. Flow	最高压力 Max. Pressure	重量 Mass	适用机重 Applicable Vehicle Mass
N. m	ml/rev	ml/rev		rpm	L/min	MPa	Kg	Ton
1396	458.3	11.4/7.3 16.5/10.6	36.96 25.26	80	20	24.5	17	1~1.5

液压原理图



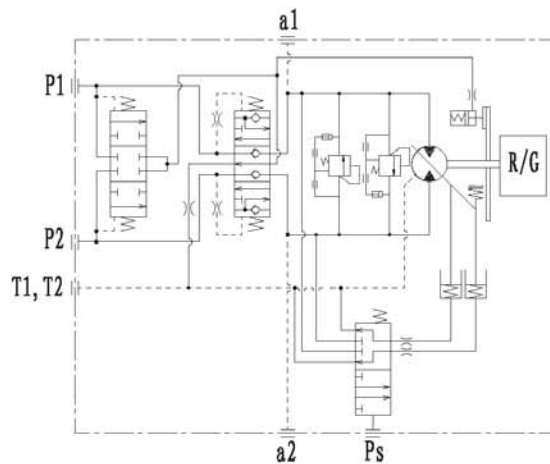
外形尺寸 Dimensions



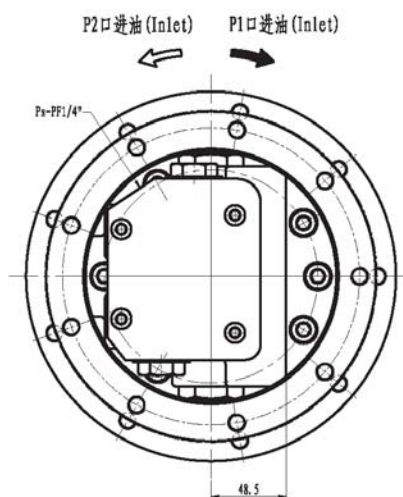
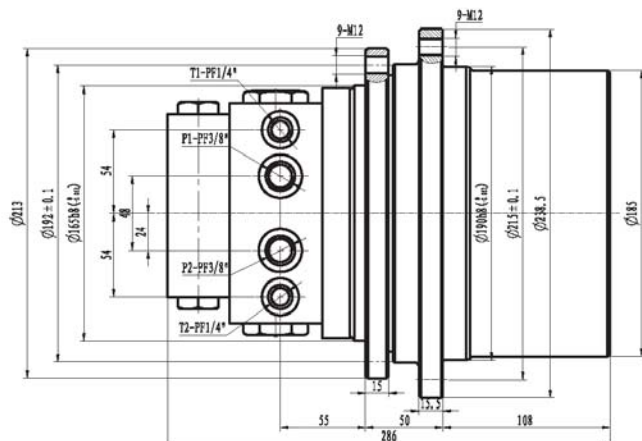
技术参数 Specifications

最大输出扭矩 Max. Output Torque N.m	最大总排量 Max. Total Displacement ml/rev	液压马达排量 Motor Displacement ml/rev	传动比 Gear Ratio	最高转速 Max. Speed rpm	最大流量 Max. Flow L/min	最高压力 Max. Pressure MPa	重量 Mass Kg	适用机重 Applicable Vehicle Mass Ton
2160	773	11.4/7.3 16.5/10.6	33.980 36.474 42.958	70	30	24.5	27	2~3

液压原理图



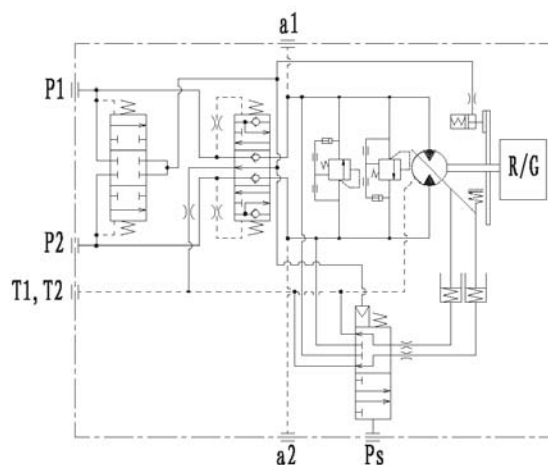
外形尺寸 Dimensions



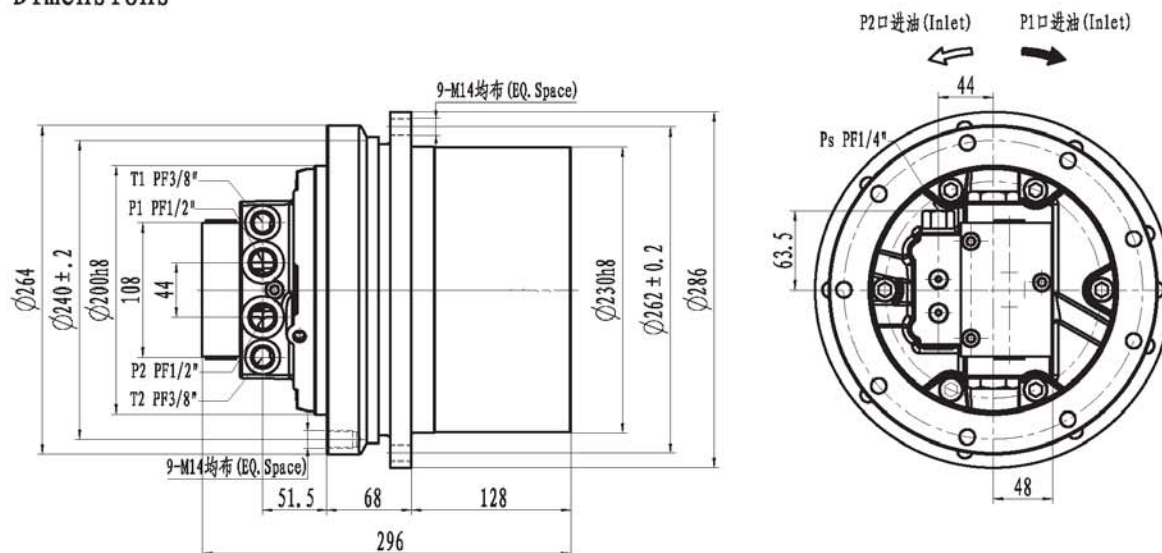
技术参数 Specifications

最大输出扭矩 Max. Output Torque N.m	最大总排量 Max. Total Displacement ml/rev	液压马达排量 Motor Displacement ml/rev	传动比 Gear Ratio	最高转速 Max. Speed rpm	最大流量 Max. Flow L/min	最高压力 Max. Pressure MPa	重量 Mass Kg	适用机重 Applicable Vehicle Mass Ton
3140	954	18.0/9.0	45 48.636 53	60	40	27.5	37	3~4

液压原理图



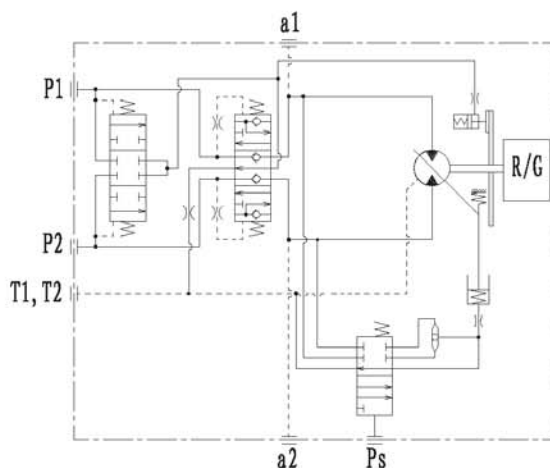
外形尺寸 Dimensions



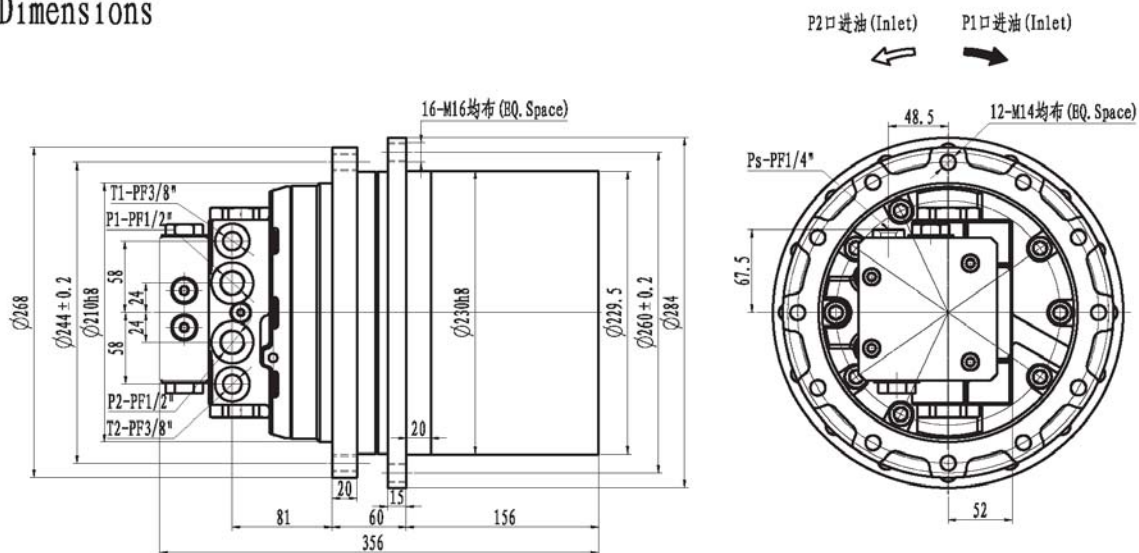
技术参数 Specifications

最大输出扭矩 Max. Output Torque	最大总排量 Max. Total Displacement	液压马达排量 Motor Displacement	传动比 Gear Ratio	最高转速 Max. Speed	最大流量 Max. Flow	最高压力 Max. Pressure	重量 Mass	适用机重 Applicable Vehicle Mass
N. m	ml/rev	ml/rev		rpm	L/min	MPa	Kg	Ton
7000	1874.3	34.9/22.7 34.9/17.5	45.057 53.706	55	60	30	60	5~6

液压原理图



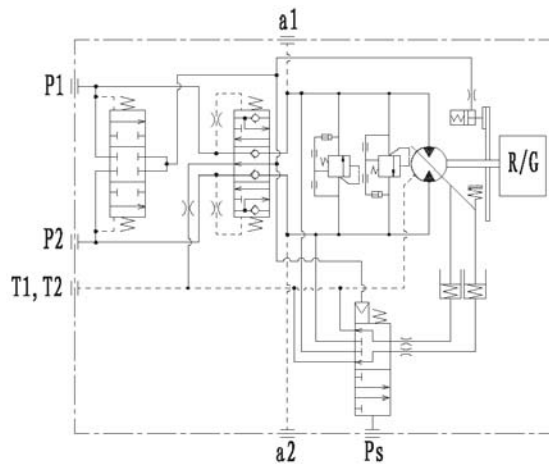
外形尺寸 Dimensions



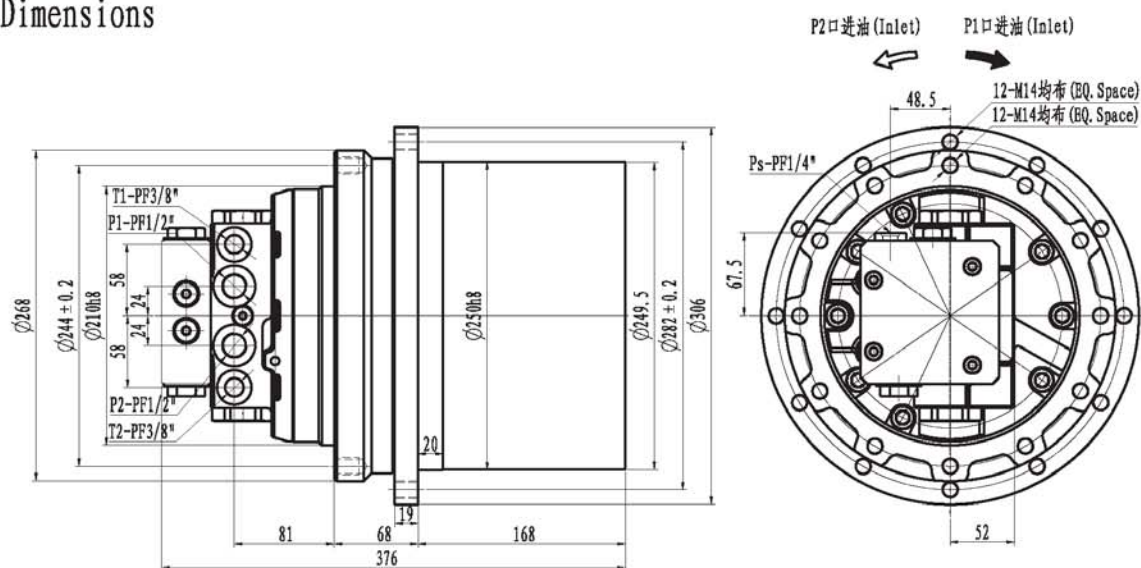
技术参数 Specifications

最大输出扭矩 Max. Output Torque	最大总排量 Max. Total Displacement	液压马达排量 Motor Displacement	传动比 Gear Ratio	最高转速 Max. Speed	最大流量 Max. Flow	最高压力 Max. Pressure	重量 Mass	适用机重 Applicable Vehicle Mass
N.m	ml/rev	ml/rev		rpm	L/min	MPa	Kg	Ton
9000	2750.7	51.9/34 44.4/26.6	53	55	80	30	75	6 ~ 8

液压原理图



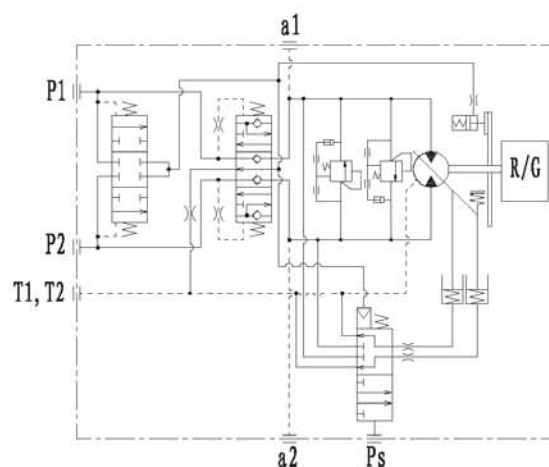
外形尺寸 Dimensions



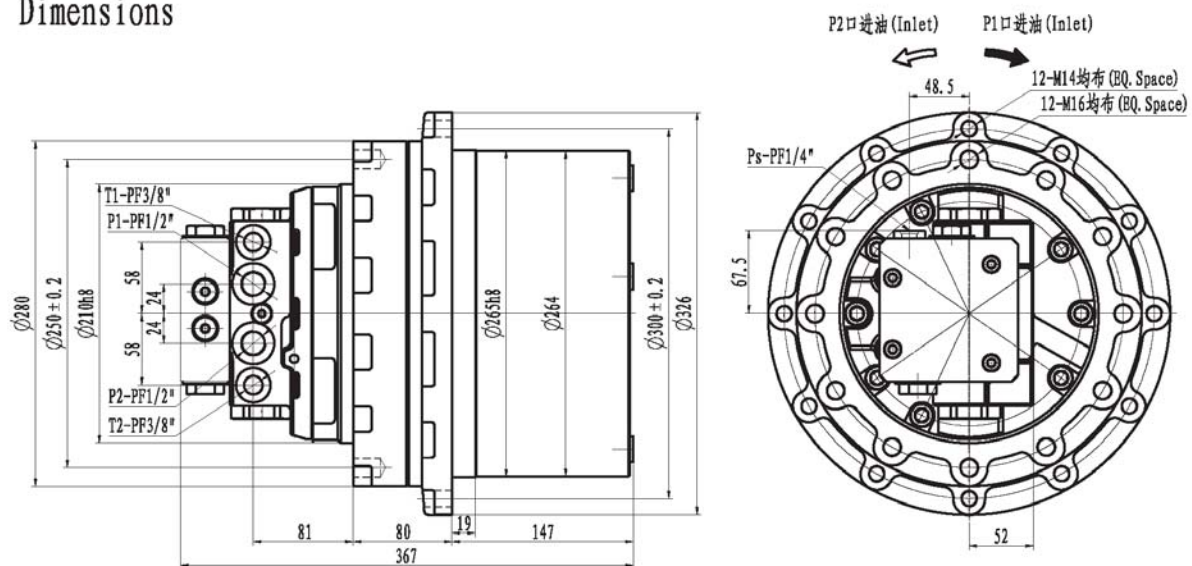
技术参数 Specifications

最大输出扭矩 Max. Output Torque N.m	最大总排量 Max. Total Displacement ml/rev	液压马达排量 Motor Displacement ml/rev	传动比 Gear Ratio	最高转速 Max. Speed rpm	最大流量 Max. Flow L/min	最高压力 Max. Pressure MPa	重量 Mass Kg	适用机重 Applicable Vehicle Mass Ton
9000	2787.3	51.9/34 44.4/26.6 51.9/28.4 44.4/22.2	53.706	55	80	30	85	7~8

液压原理图



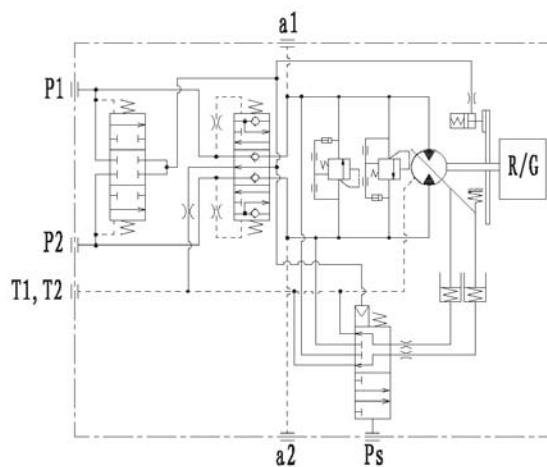
外形尺寸 Dimensions



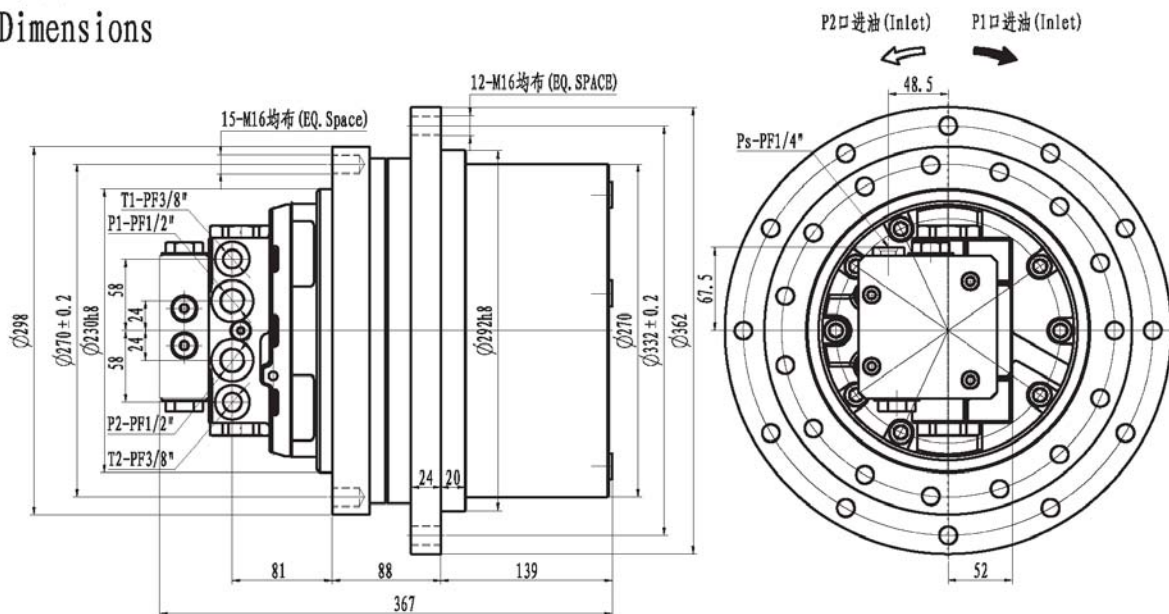
技术参数 Specifications

最大输出扭矩 Max. Output Torque N.m	最大总排量 Max. Total Displacement ml/rev	液压马达排量 Motor Displacement ml/rev	传动比 Gear Ratio	最高转速 Max. Speed rpm	最大流量 Max. Flow L/min	最高压力 Max. Pressure MPa	重量 Mass Kg	适用机重 Applicable Vehicle Mass Ton
10000	3311.2	51.9/34 44.4/26.6	53 63.8	55	80	30	95	8~9

液压原理图



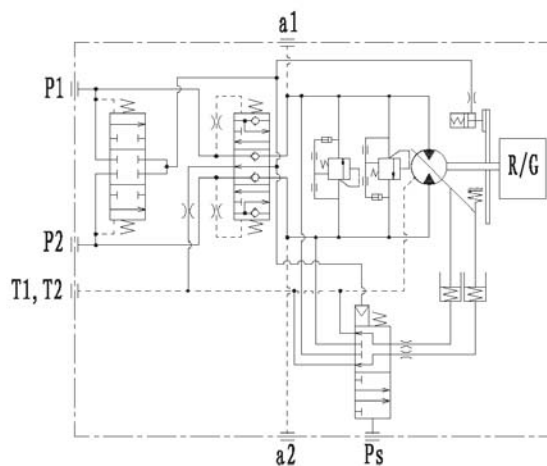
外形尺寸 Dimensions



技术参数 Specifications

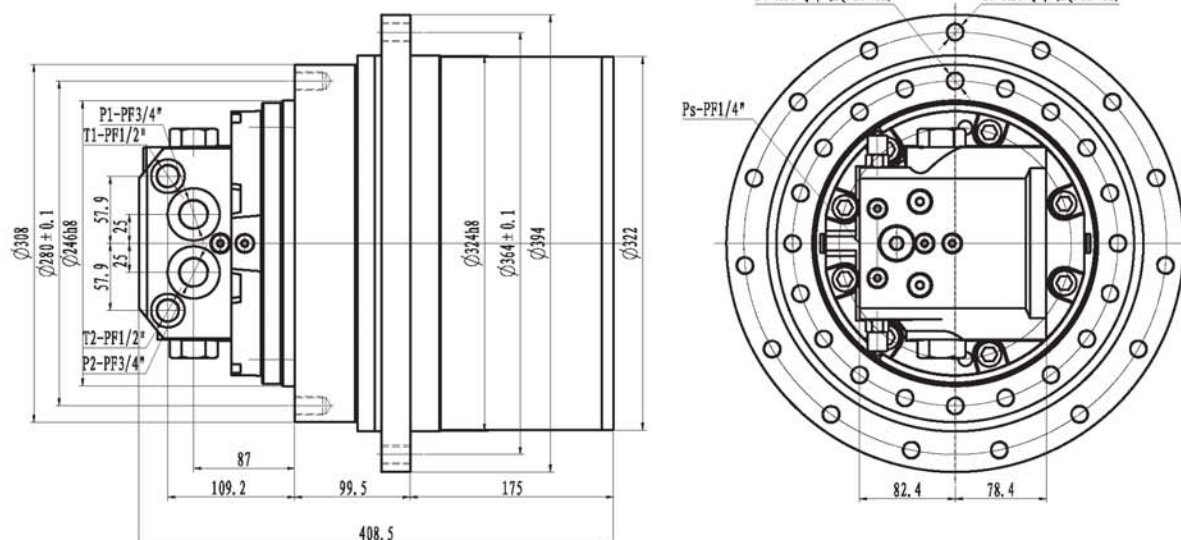
最大输出扭矩 Max. Output Torque	最大总排量 Max. Total Displacement	液压马达排量 Motor Displacement	传动比 Gear Ratio	最高转速 Max. Speed	最大流量 Max. Flow	最高压力 Max. Pressure	重量 Mass	适用机重 Applicable Vehicle Mass
N.m	ml/rev	ml/rev		rpm	L/min	MPa	Kg	Ton
12000	2750.7	51.9/34 44.4/26.6	53	55	80	30	110	9~10

液压原理图



外形尺寸

Dimensions

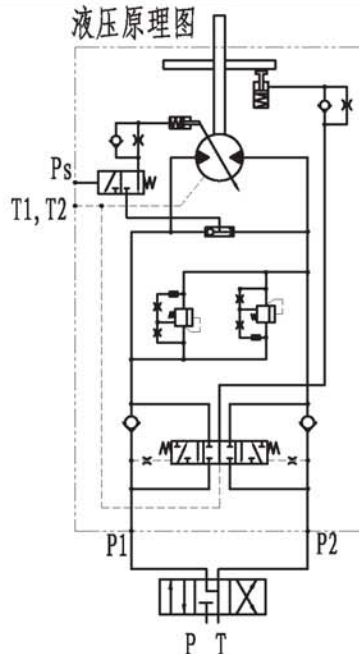


技术参数

Specifications

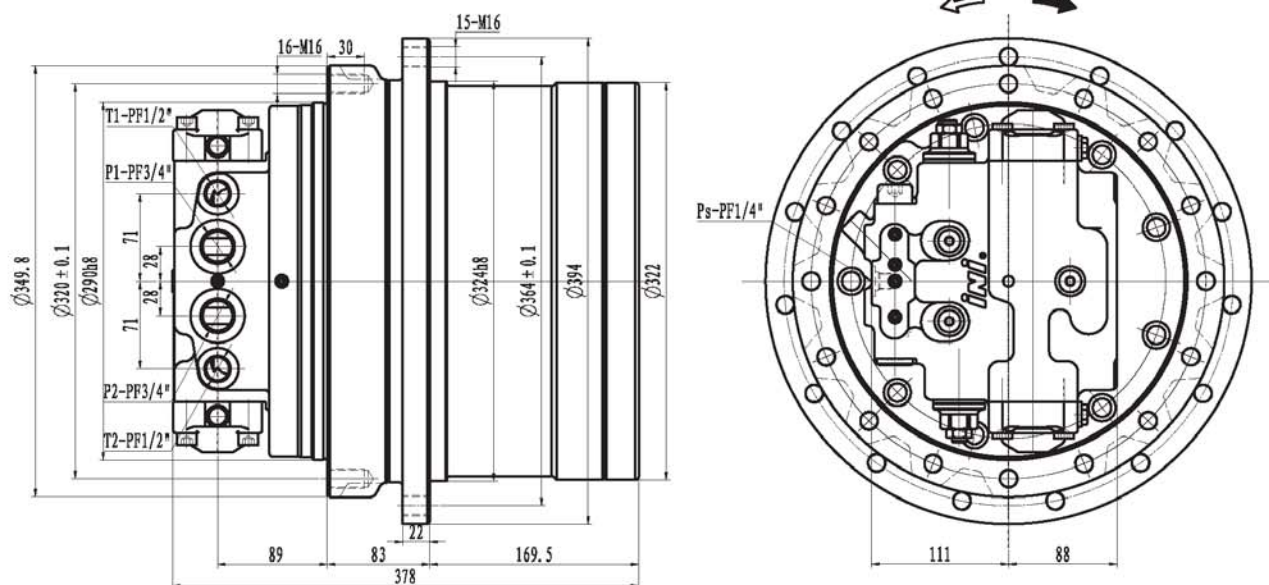
最大输出扭矩	最大总排量	液压马达排量		传动比	最高转速	最大流量	最高压力	重量	适用机重
Max. Output Torque	Max. Total Displacement	Motor Displacement		Gear Ratio	Max. Speed	Max. Flow	Max. Pressure	Mass	Applicable Vehicle Mass
N.m	ml/rev	ml/rev			rpm	L/min	MPa	Kg	Ton
18000	4862.6	87.3/55.5 80.3/35.3	87.3/43.1 69.2/43.1	55.7	55	150	35	140	10~12

液压原理图



外形尺寸

Dimensions

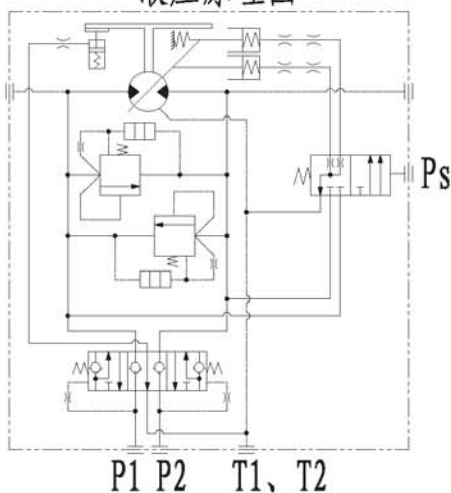


技术参数

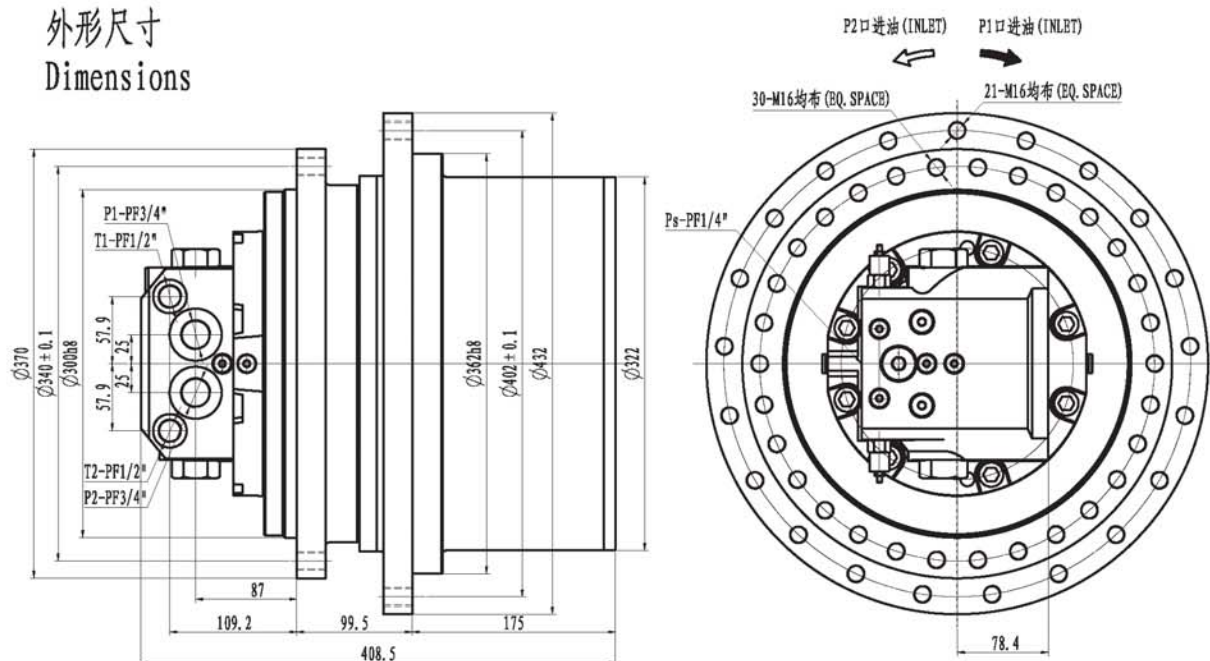
Specifications

最大输出扭矩	最大总排量	液压马达排量	传动比	最高转速	最大流量	最高压力	重量	适用机重
Max. Output Torque	Max. Total Displacement	Motor Displacement	Gear Ratio	Max. Speed	Max. Flow	Max. Pressure	Mass	Applicable Vehicle Mass
N.m	ml/rev	ml/rev		rpm	L/min	MPa	Kg	Ton
17700	4416	87.3/55.5 80.3/35.3	47 50.579	55	150	35	155	10~12

液压原理图



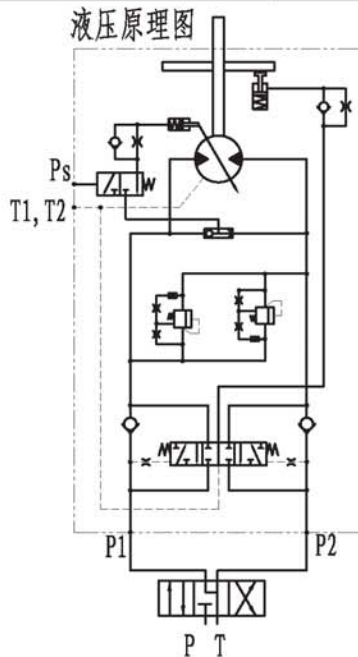
外形尺寸 Dimensions



技术参数 Specifications

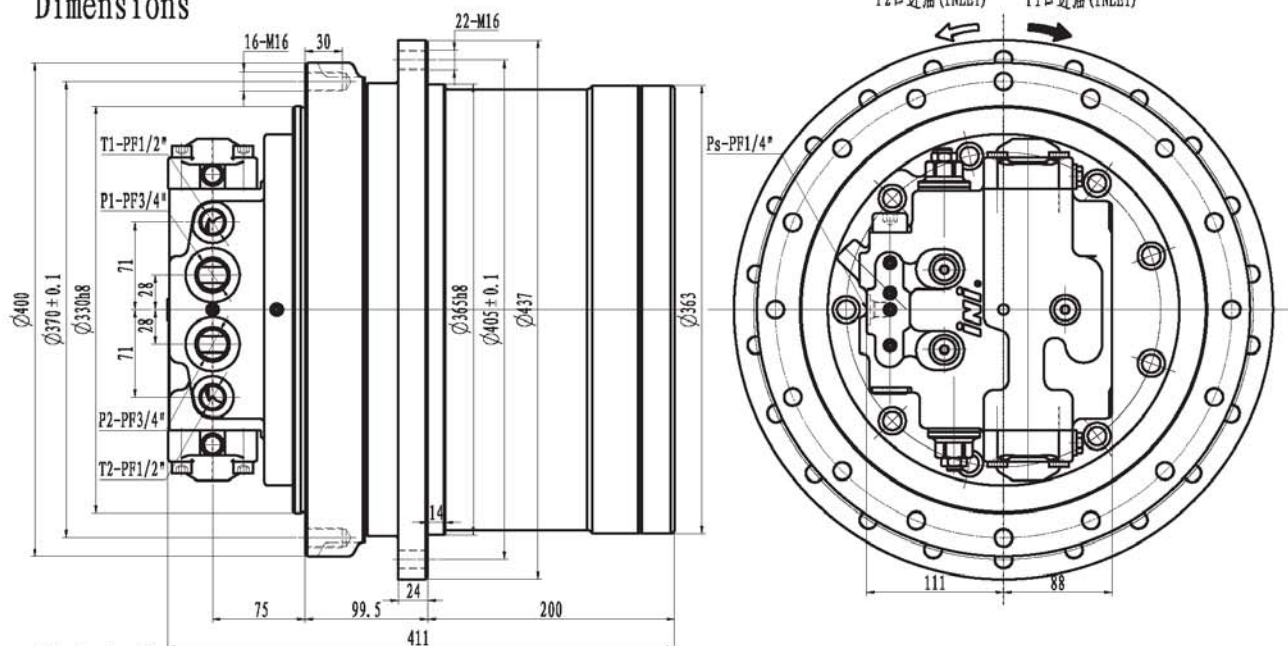
最大输出扭矩 Max. Output Torque N.m	最大总排量 Max. Total Displacement ml/rev	液压马达排量 Motor Displacement ml/rev	传动比 Gear Ratio	最高转速 Max. Speed rpm	最大流量 Max. Flow L/min	最高压力 Max. Pressure MPa	重量 Mass Kg	适用机重 Applicable Vehicle Mass Ton
24000	4862.6	87.3/55.5 80.3/35.3	55.7	50	150	35	180	14~16

液压原理图



外形尺寸

Dimensions

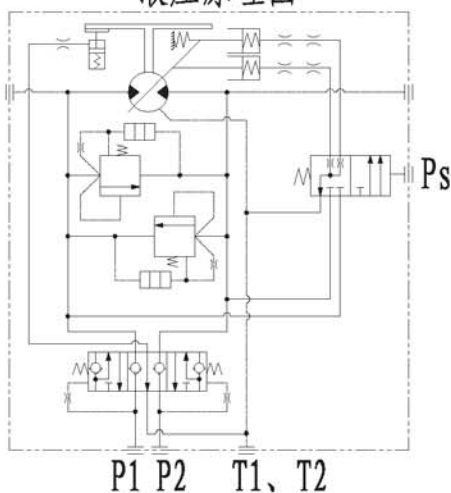


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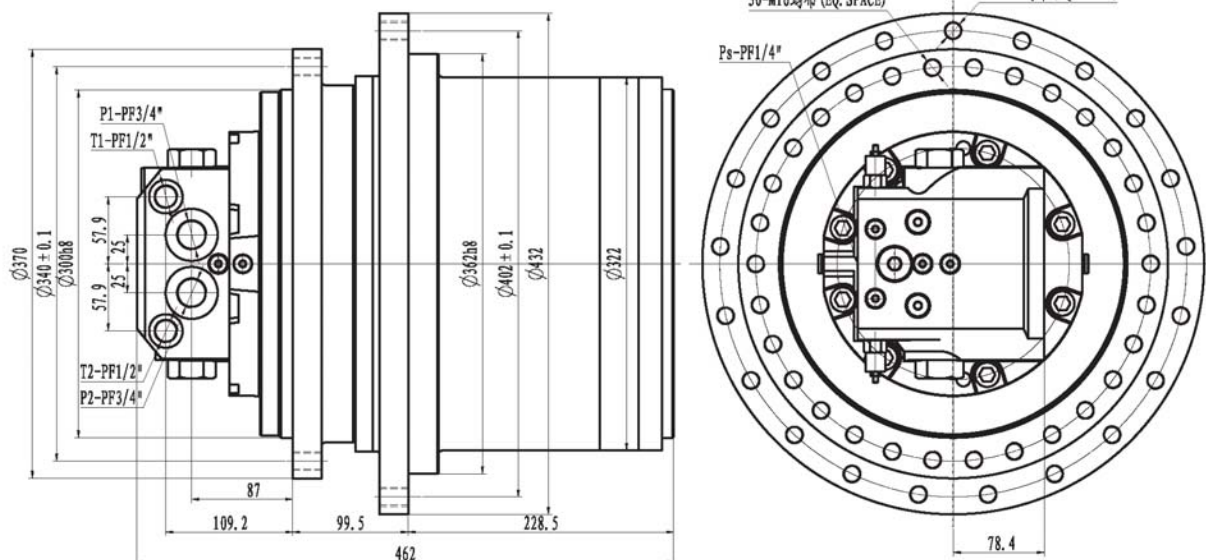
Specifications

最大输出扭矩	最大总排量	液压马达排量		传动比	最高转速	最大流量	最高压力	重量	适用机重
Max. Output Torque	Max. Total Displacement	Motor Displacement		Gear Ratio	Max. Speed	Max. Flow	Max. Pressure	Mass	Applicable Vehicle Mass
N.m	ml/rev	ml/rev			rpm	L/min	MPa	Kg	Ton
23500	5020	87.3/55.5	87.3/43.1	47	50	150	35	190	14~16
		80.3/35.3	69.2/43.1	57.5					

液压原理图



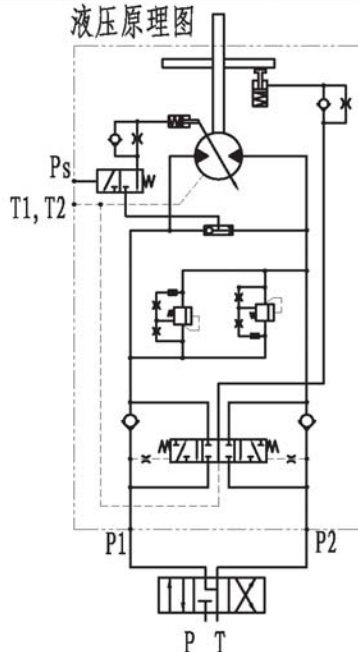
外形尺寸 Dimensions



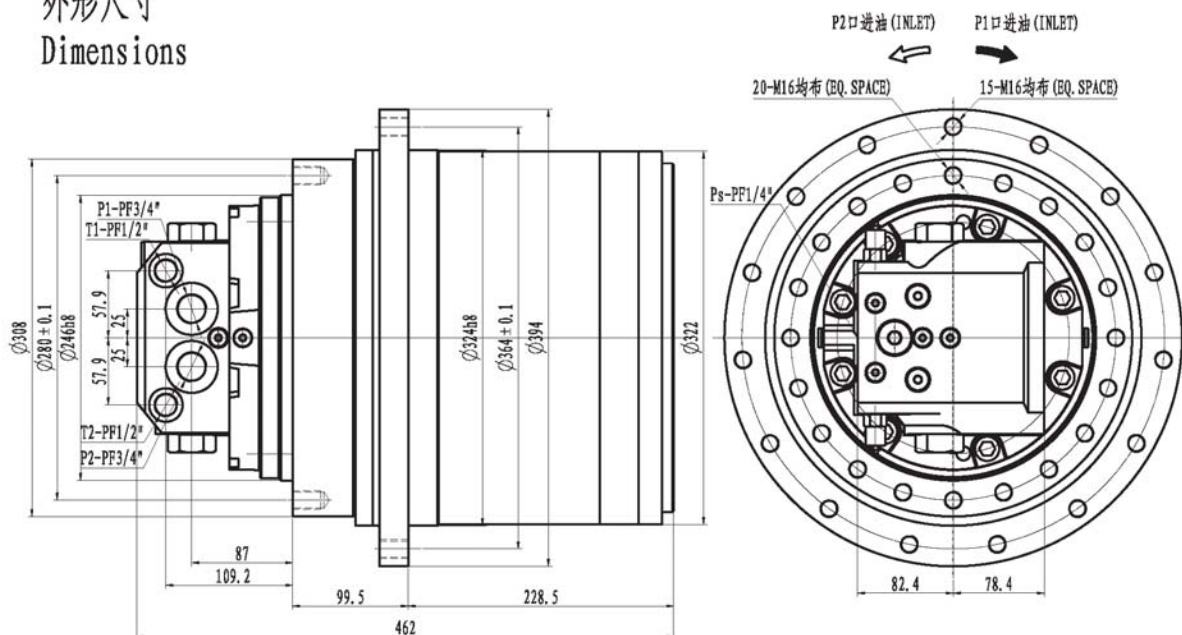
技术参数 Specifications

最大输出扭矩 Max. Output Torque N.m	最大总排量 Max. Total Displacement ml/rev	液压马达排量 Motor Displacement ml/rev	传动比 Gear Ratio	最高转速 Max. Speed rpm	最大流量 Max. Flow L/min	最高压力 Max. Pressure MPa	重量 Mass Kg	适用机重 Applicable Vehicle Mass Ton
28000	7158.6	87.3/55.5 80.3/35.3	82	30	150	28	200	14~18

液压原理图

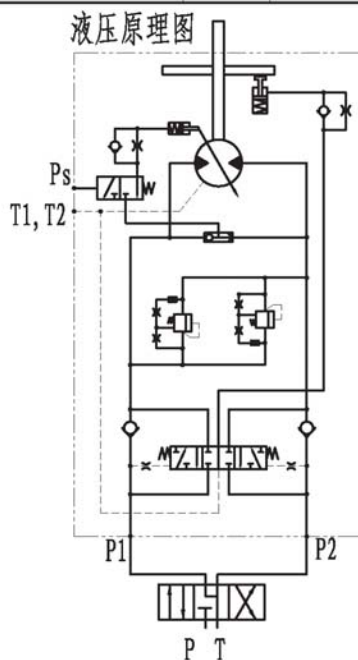


外形尺寸 Dimensions

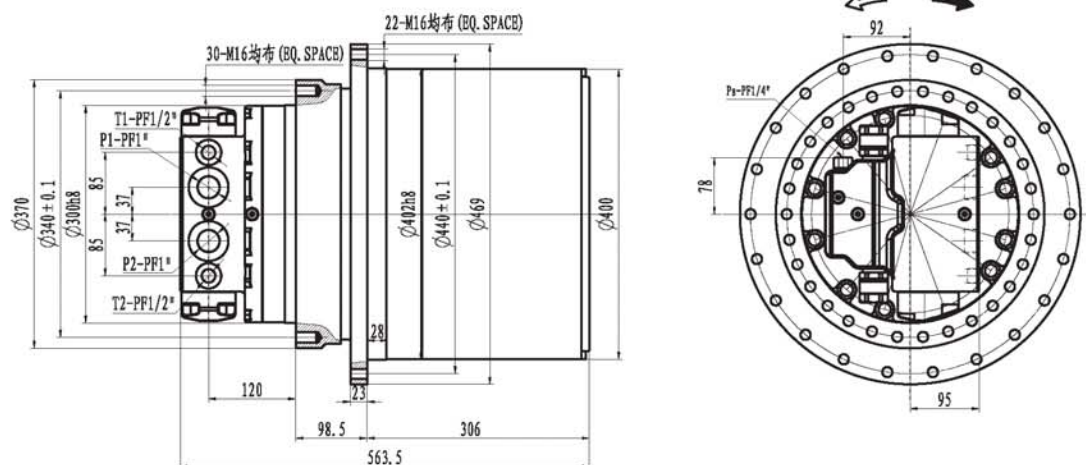


技术参数 Specifications

最大输出扭矩 Max. Output Torque N. m	最大总排量 Max. Total Displacement ml/rev	液压马达排量 Motor Displacement ml/rev	传动比 Gear Ratio	最高转速 Max. Speed rpm	最大流量 Max. Flow L/min	最高压力 Max. Pressure MPa	重量 Mass Kg	适用机重 Applicable Vehicle Mass Ton
28000	7158.6	87.3/55.5 80.3/35.3	82	30	150	28	180	14~18



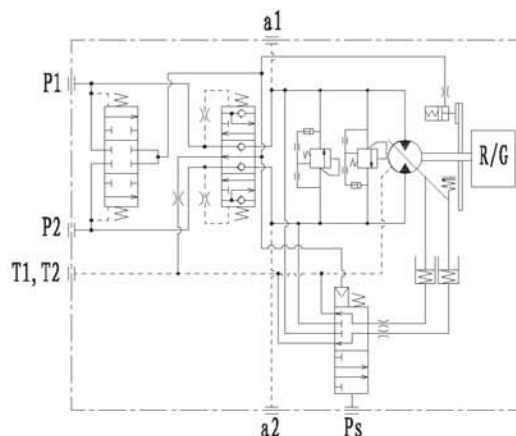
外形尺寸 Dimensions



技术参数 Specifications

最大输出扭矩 Max. Output Torque N.m	总排量 Total Displacement ml/rev	液压马达排量 Motor Displacement ml/rev	传动比 Gear Ratio	转速 Speed rpm	最大流量 Max. Flow L/min	最高压力 Max. Pressure MPa	重量 Mass Kg	适用机重 Applicable Vehicle Mass Ton
40000	7328.7/4319.7	143.7/84.1	51	26/42	250	35	280	20
42000	7721.4/4671.6	151.4/91.6	51	26/42	250	35	280	20-23
44000	8180.4/5110.2	160.4/100.2	51	26/42	250	35	280	20-23
48000	8751.6/5655.9	171.6/110.9	51	26/42	250	35	280	23-25
51000	9389.1/6262.8	184.1/122.8	51	26/42	250	35	280	25-30
54000	9919.5/6767.7	194.5/132.7	51	26/42	250	35	280	30-35

液压原理图



IGT 系列履带驱动用静液压驱动装置（行走马达）

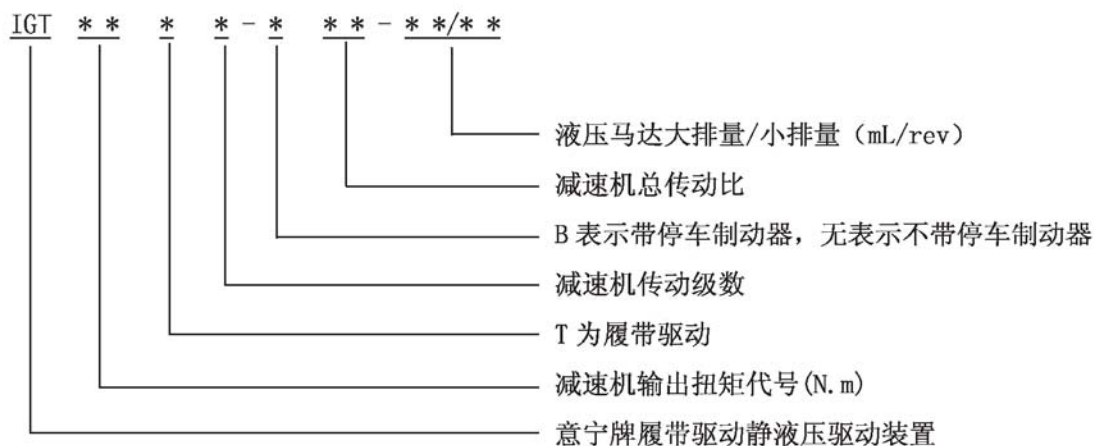
1、概述

IGT 系列行走用静液压驱动装置由集成于减速机内部的可变排量高速轴向柱塞马达、多片式制动器、行星减速机及功能阀块组成。它的特点是工作效率高、可靠性强、结构紧凑、工作压力高、可实现变速驱动，其输出为转动的外壳，可直接驱动履带、车轮，也可用于掘进机、铣刨机动力头驱动和绞车等驱动装置中。

该系列产品设计中采用了本公司专利技术，所列出的液压驱动装置型号表示公司已投产的产品。我们也可根据客户要求提供其它安装尺寸及不同传动比的型号。如有需要，请与本公司联系。

该类产品已广泛用于履带挖掘机行走驱动，履带式起重机行走驱动，路面铣刨机行走驱动，煤碳掘进机行走驱动，压路机、自行式钻机履带驱动和绞车驱动等领域。产品不但已在国内三一重工、徐工集团、宇通等重点用户中使用，并出口到东南亚、中东、印度、韩国、荷兰、德国和俄罗斯等国家及地区。

2、型号说明



3、型号举例

IGT80T3-B99-172/111 表示高速壳转静液压驱动装置输出扭矩为 80000N.m, 用于履带驱动，采用三级行星减速，带停车制动器，总传动比为 99，液压马达低速挡排量为 172mL/rev, 高速挡排量为 111mL/rev。

4. 本系列产品中的液压马达实际排量可以根据用户需求在小于最大排量范围内适当改变。用户选型订货时可提出具体要求，选用时请与本公司设计部门联系。

IGT Hydrostatic Drive Series (Travel Motor)

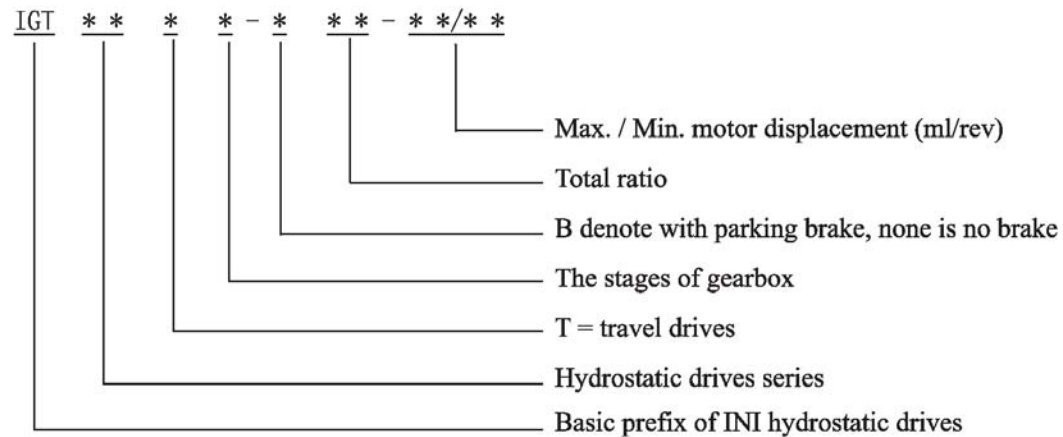
1. Brief Introduction

The IGT hydrostatic drive series consist of built-in variable displacement piston motor, multi-disc brake, planetary gearbox, and functional valve block. The drives feature high working efficiency, long life, great reliability, compact design, high working pressure and Hi-low speed switch control. The case-rotation type travel drives not only can be directly installed inside the crawler or wheel, but also can be used in road header or milling machine for power turning drives and winch drives.

The drives adopt our patented technology and design experience. The drives described in this catalog are of the standard type. Other design variants with different ratio, dimensions, and power characteristics are available if so requested for specific applications.

The drives have been widely applied in crawler excavator, crawler cranes, road milling machine, road header, road roller, track vehicles, aerial platform, self-propel drill rigs and winch drives. The drives not only have been used by domestic customer such as SANY, XCMG, YUTONG, but also have been exported to Southeast Asia, Middle East, India, South Korea, Netherlands, Germany and Russia and so on.

2. Model Options



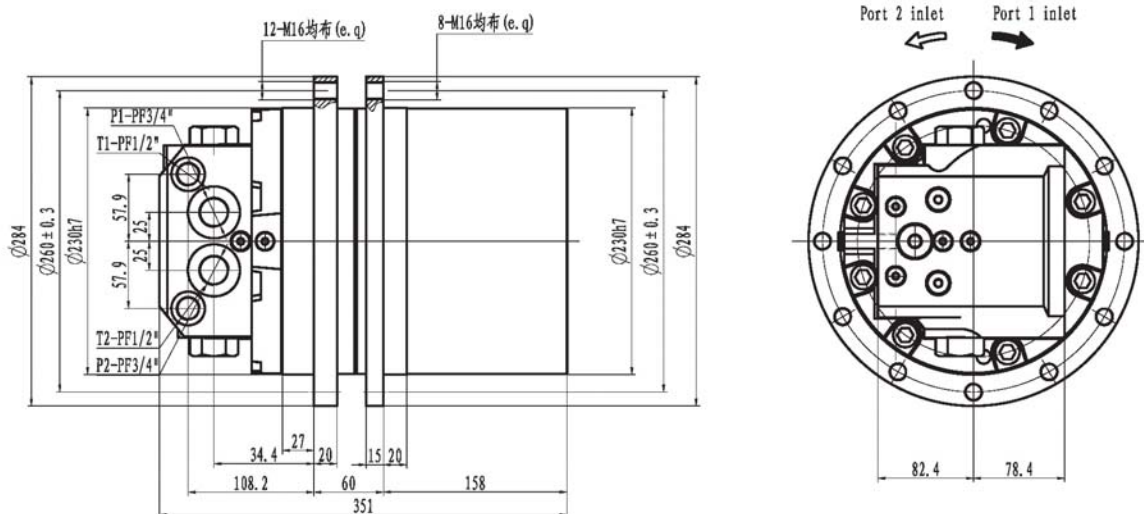
3. Options Example

IGT80T3-B99-172/111 represents that the series drive is 80 with maximum output torque of 80kNm, three stages planetary gearbox with a total ratio of 99, fitted with a multi-disc parking brake, and high speed axial hydraulic motor. The hydraulic motor has a variable displacement (two speed) of 172ml/rev in low speed position and 111ml/rev in high speed position.

4. The displacement of hydraulic motor could be changed according to request of users. Before then, please contact with R.D department

外形尺寸

Dimensions

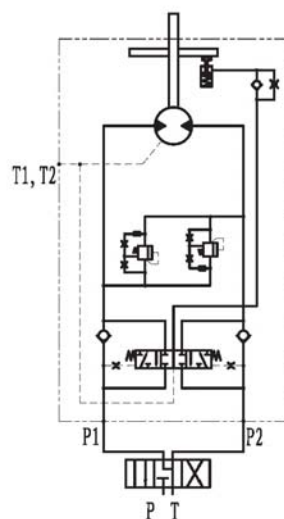


技术参数

Technical Data

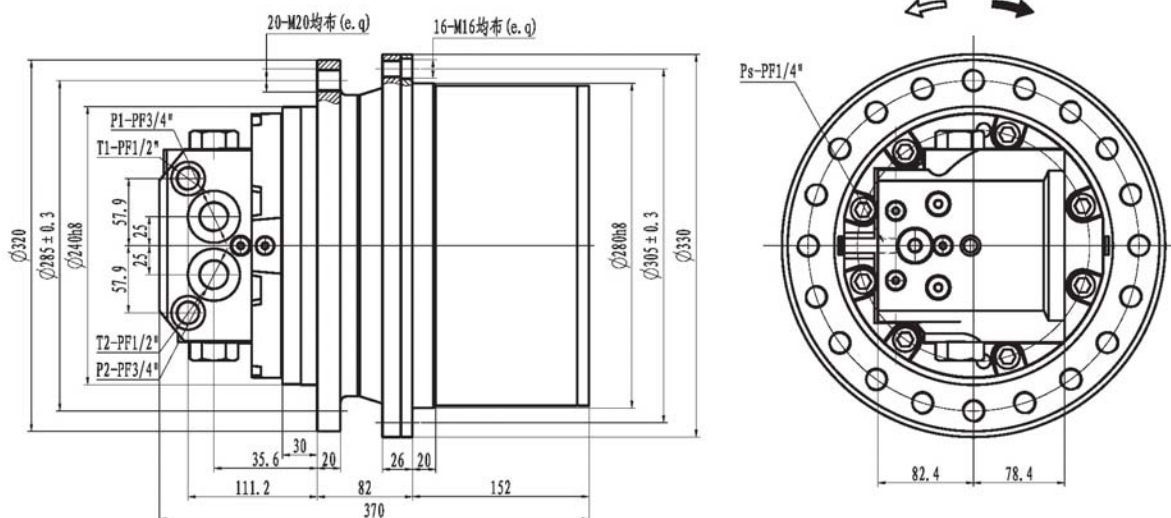
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Max. Output Torque	Max. Total Displacement	Max. Motor Displacement	Gear Ratio	Max. Speed	Speed Ratio	Max. Flow	Max. Pressure	Mass	Applicable Vehicle Mass
N.m	ml/rev	ml/rev		rpm	High/Low	L/min	MPa	Kg	Ton
9000	3937.2	87.3	20.4 · 25.6 29.6 · 35.6 45.1	2800	—	150	35	100	6 ~ 9

液压原理图



外形尺寸

Dimensions

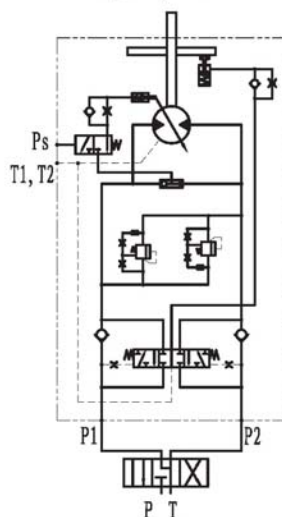


技术参数

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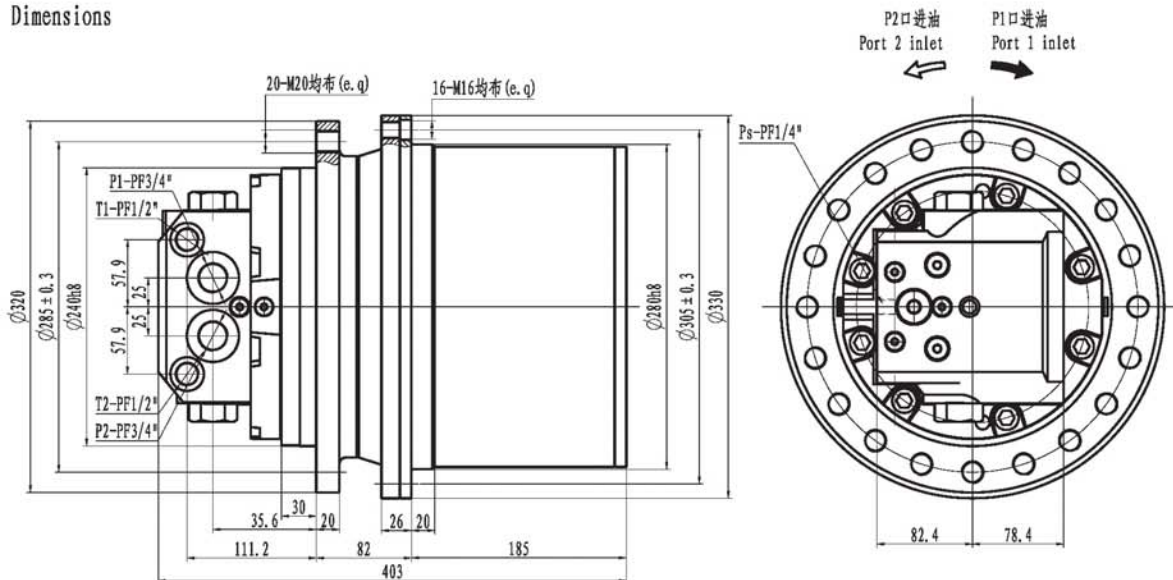
最大输出扭矩 Max. Output Torque	最大总排量 Max. Total Displacement	最大马达排量 Max. Motor Displacement	传动比 Gear Ratio	最高输入转速 Max. Speed	高低速比 Speed Ratio	最大流量 Max. Flow	最高压力 Max. Pressure	重量 Mass	适用机重 Applicable Vehicle Mass
N.m	ml/rev	ml/rev		rpm	High/Low	L/min	MPa	Kg	Ton
17000	4714.2	87.3	26.4 · 32.1 37.6 · 45.4 54	2800	Max. 1.8	150	35	150	8~12

液压原理图



外形尺寸

Dimensions

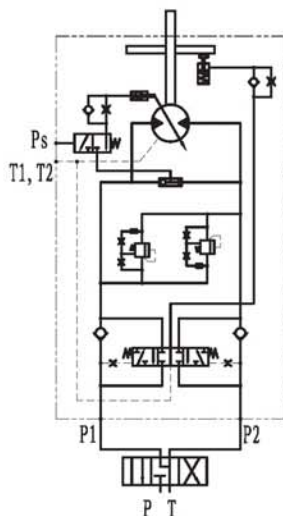


技术参数

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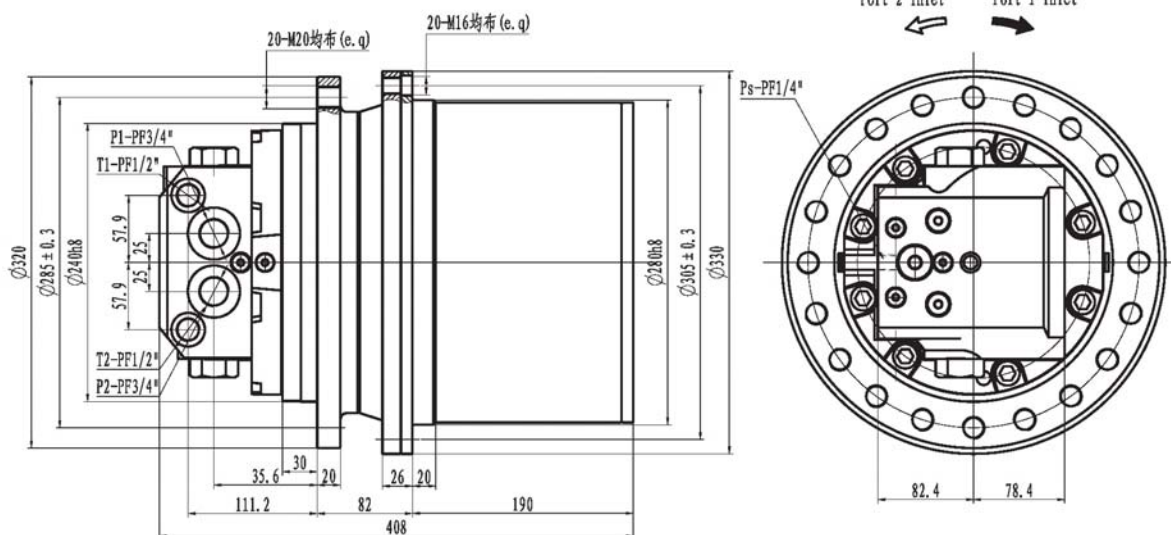
最大输出扭矩	最大总排量	最大马达排量	传动比	最高输入转速	高低速比	最大流量	最高压力	重量	适用机重
Max. Output Torque	Max. Total Displacement	Max. Motor Displacement	Gear Ratio	Max. Speed	Speed Ratio	Max. Flow	Max. Pressure	Mass	Applicable Vehicle Mass
N.m	ml/rev	ml/rev		rpm	High/Low	L/min	MPa	Kg	Ton
17000	8957	87.3	77.9 · 88.2 102.6	2800	Max. 1.8	150	35	165	8~12

液压原理图



外形尺寸

Dimensions

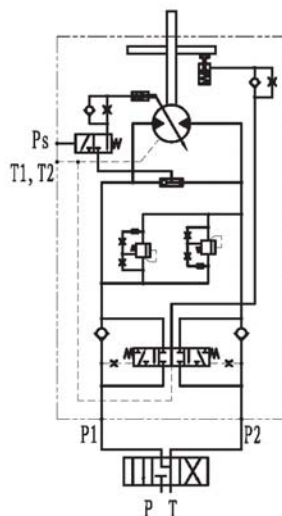


技术参数

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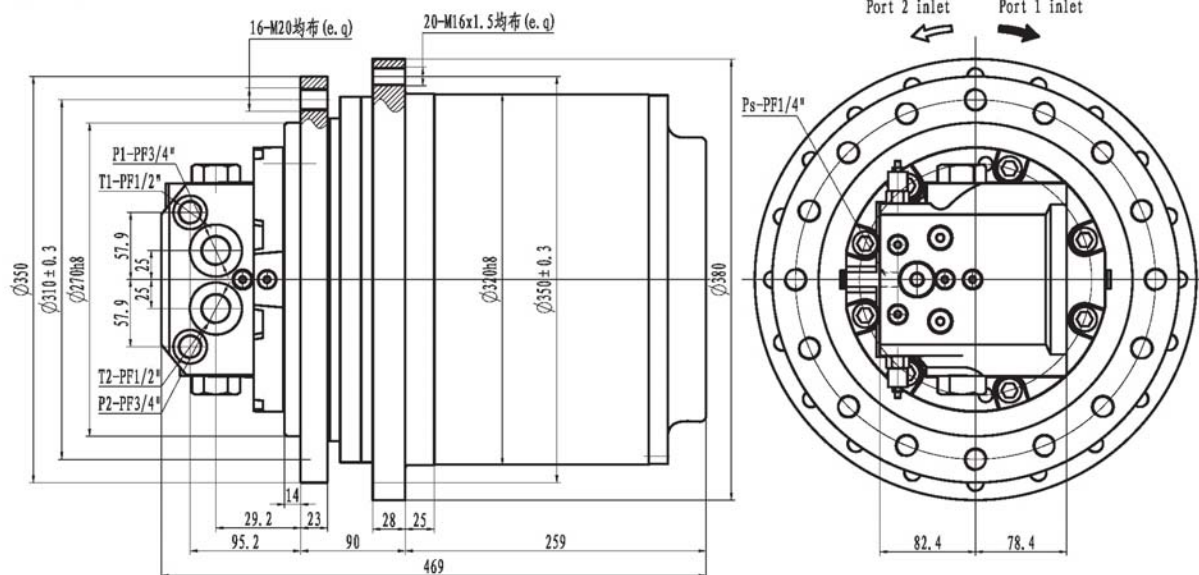
最大输出扭矩	最大总排量	最大马达排量	传动比	最高输入转速	高/低速比	最大流量	最高压力	重量	适用机重
Max. Output Torque	Max. Total Displacement	Max. Motor Displacement	Gear Ratio	Max. Speed	Speed Ratio	Max. Flow	Max. Pressure	Mass	Applicable Vehicle Mass
N·m	ml/rev	ml/rev		rpm	High/Low	L/min	MPa	Kg	Ton
24000	11977.6	87.3	90.1 · 102.6 120.5 · 137.2	2800	Max. 1.8	150	35	170	12 ~ 15

液压原理图



外形尺寸

Dimensions

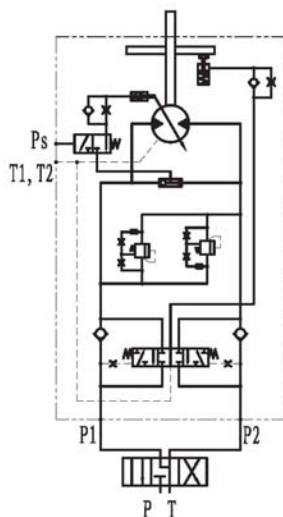


技术参数

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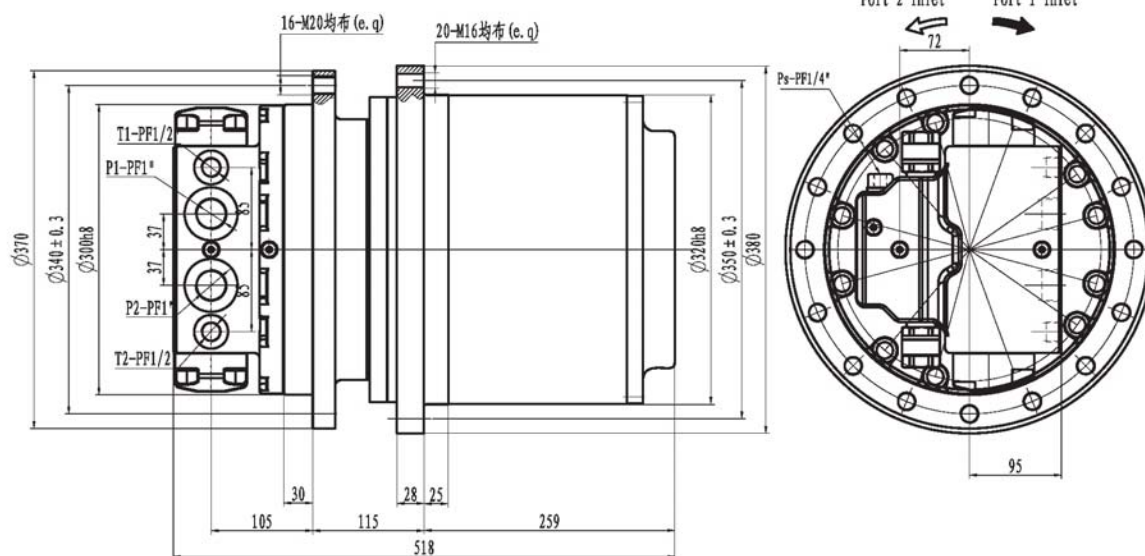
最大输出扭矩	总排量	最大马达排量	传动比	最高输入转速	高低速比	最大流量	最高压力	重量	适用机重
Max. Output Torque	Total Displacement	Max. Motor Displacement	Gear Ratio	Max. Speed	Speed Ratio	Max. Flow	Max. Pressure	Mass	Applicable Vehicle Mass
N.m	ml/rev	ml/rev		rpm	High/Low	L/min	MPa	Kg	Ton
36000	11384 / 5607	87.3	67 · 79.4 100 · 116.6 130.4	2800	Max. 1.8	150	35	235	15 ~ 25

液压原理图



外形尺寸

Dimensions

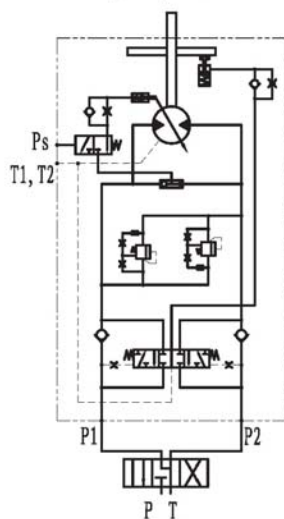


技术参数

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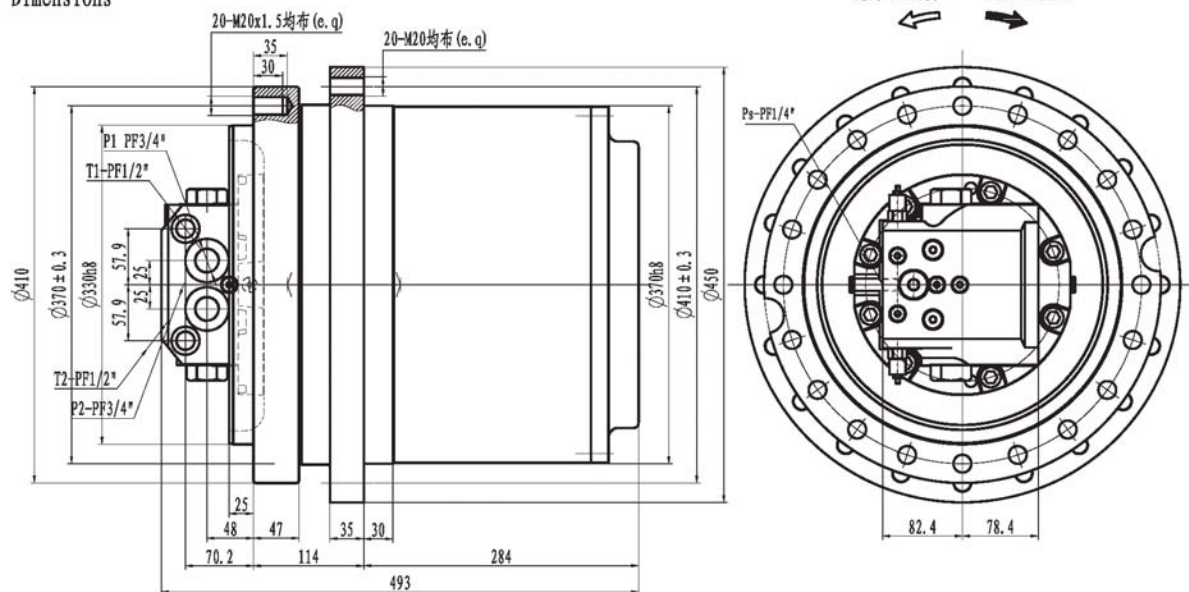
最大输出扭矩	最大总排量	马达排量	传动比	最高输入转速	高低速比	最大流量	最高压力	重量	适用机重
Max. Output Torque	Max. Total Displacement	Motor Displacement	Gear Ratio	Max. Speed	Speed Ratio	Max. Flow	Max. Pressure	Mass	Applicable Vehicle Mass
N.m	ml/rev	ml/rev		rpm	High/Low	L/min	MPa	Kg	Ton
36000	14832.3	171.6	67 · 79.4 100 · 116.6 130.4	2800	Max. 1.8	150	35	255	20 ~ 35

液压原理图



外形尺寸

Dimensions

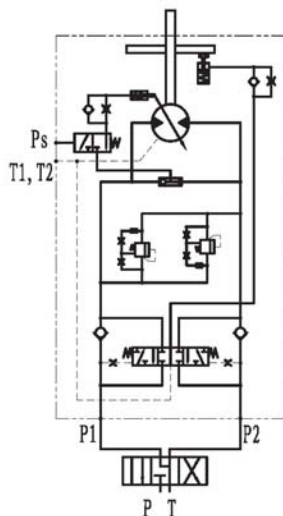


技术参数

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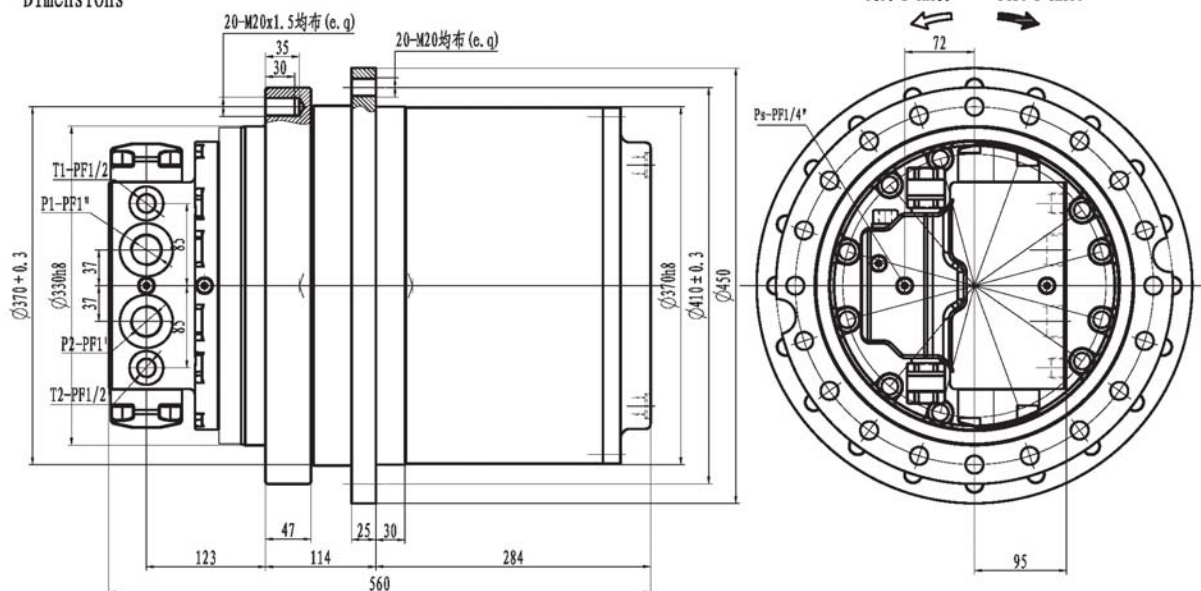
最大输出扭矩 Max. Output Torque N.m	总排量 Total Displacement ml/rev	马达排量 Motor Displacement ml/rev	传动比 Gear Ratio	最高输入转速 Max. Speed rpm	高低速比 Speed Ratio High/Low	最大流量 Max. Flow L/min	最高压力 Max. Pressure MPa	重量 Mass Kg	适用机重 Applicable Vehicle Mass Ton
60000	14832.3 / 5607	87.3/55.5	86.5 · 94.8 105.5 · 119.8 139.9 · 169.9	2800	Max. 1.8	150	35	300	25 ~ 40

液压原理图



外形尺寸

Dimensions

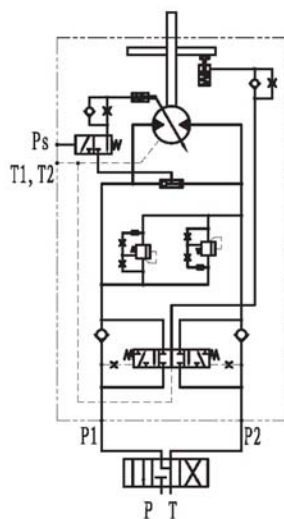


技术参数

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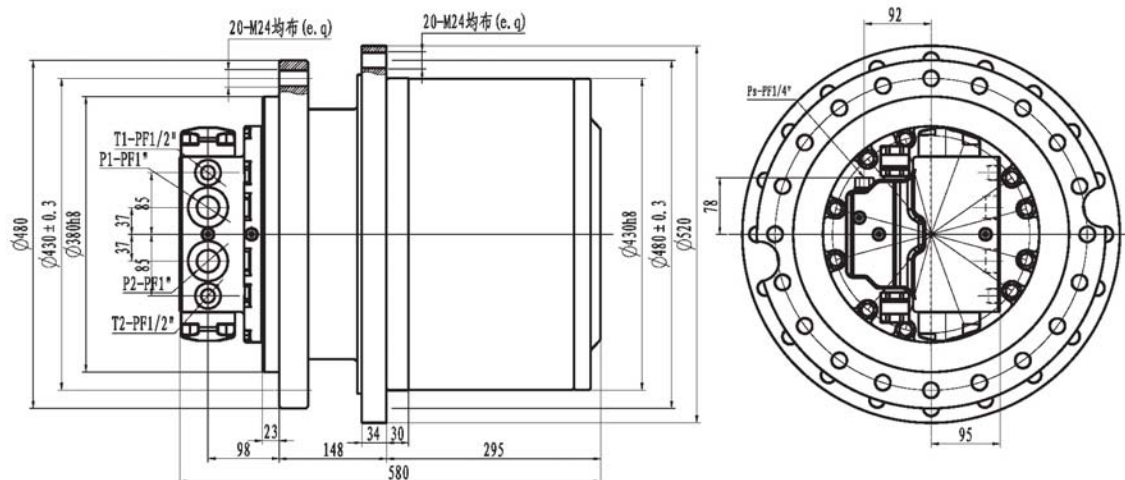
最大输出扭矩	最大总排量	马达排量	传动比	最高输入转速	高低速比	最大流量	最高压力	重量	适用机重
Max. Output Torque	Max. Total Displacement	Motor Displacement	Gear Ratio	Max. Speed	Speed Ratio	Max. Flow	Max. Pressure	Mass	Applicable Vehicle Mass
N.m	ml/rev	ml/rev		rpm	High/Low	L/min	MPa	Kg	Ton
60000	29154.84	171.6/111	86.5 · 94.8 105.5 · 119.8 139.9 · 169.9	2800	Max. 1.8	150	35	300	25 ~ 40

液压原理图



外形尺寸

Dimensions

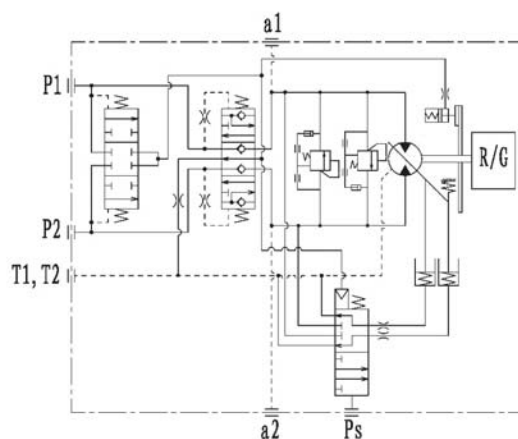


技术参数

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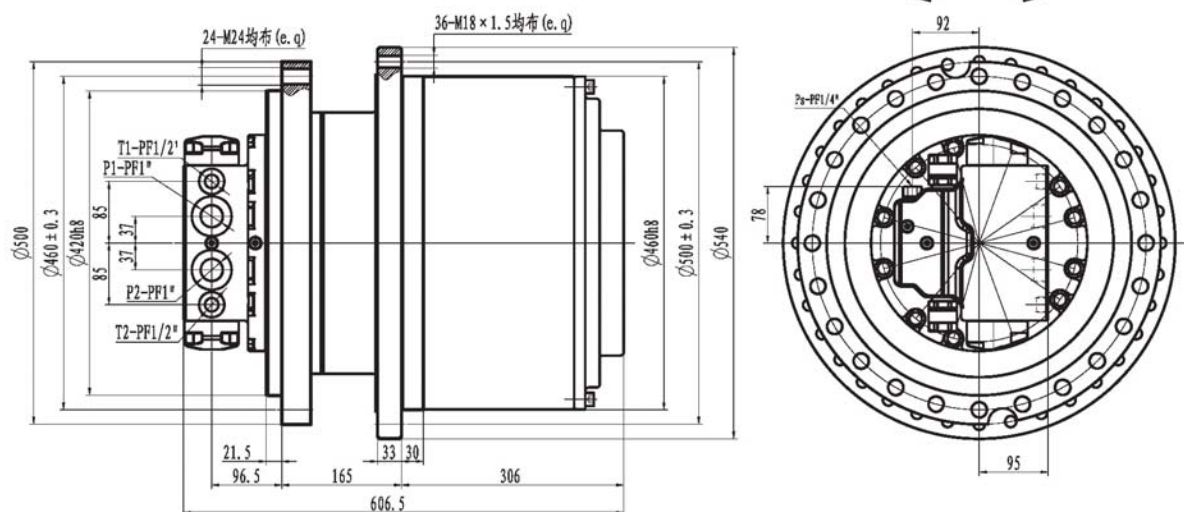
最大输出扭矩	最大总排量	马达排量	传动比	最高输入转速	高低速比	最大流量	最高压力	重量	适用机重
Max. Output Torque	Max. Total Displacement	Motor Displacement	Gear Ratio	Max. Speed	Speed Ratio	Max. Flow	Max. Pressure	Mass	Applicable Vehicle Mass
N.m	ml/rev	ml/rev		rpm	High/Low	L/min	MPa	Kg	Ton
80000	31814.6	171.6	76.7 · 99	2500	Max. 2	250	35	435	35 ~ 50
		171.6/111	110.9 · 126.9 149.9 · 185.4						

液压原理图



外形尺寸

Dimensions

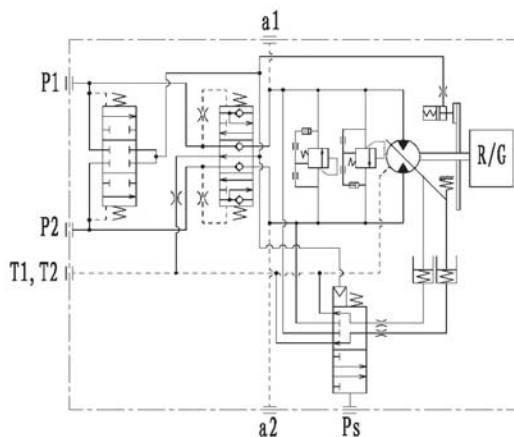


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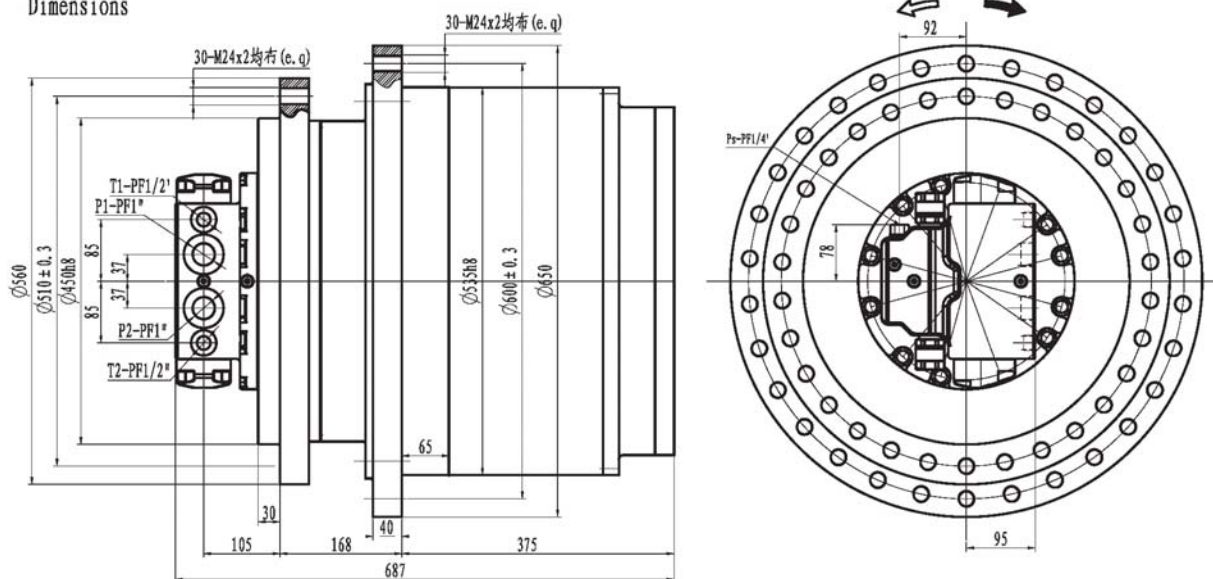
最大输出扭矩	最大总排量	马达排量	传动比	最高输入转速	高低速比	最大流量	最高压力	重量	适用机重
Max. Output Torque	Max. Total Displacement	Motor Displacement	Gear Ratio	Max. Speed	Speed Ratio	Max. Flow	Max. Pressure	Mass	Applicable Vehicle Mass
N.m	ml/rev	ml/rev		rpm	High/Low	L/min	MPa	Kg	Ton
110000	36894	171.6	95.8 · 114.8	2500	Max. 2	250	35	485	50 ~ 80
		171.6/111	128.6 · 147.2 173.9 · 215						

液压原理图



外形尺寸

Dimensions

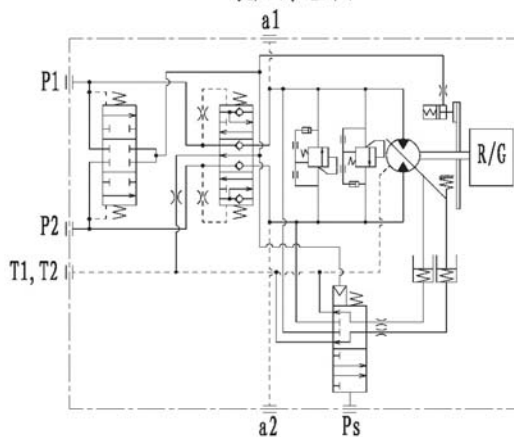


技术参数

Technical Data

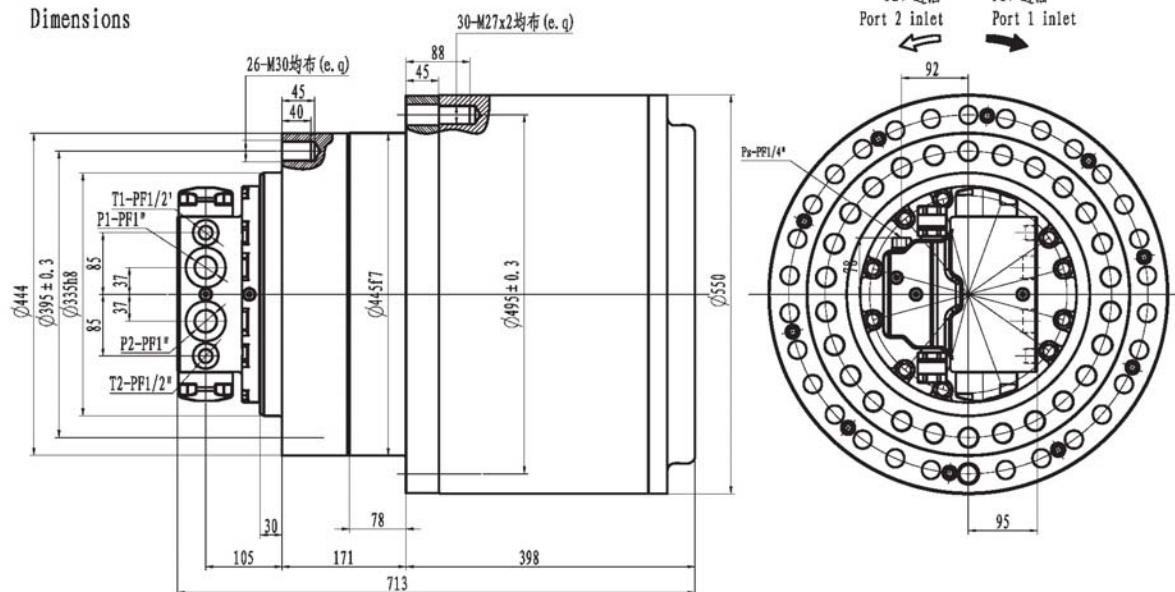
最大输出扭矩	最大总排量	马达排量	传动比	最高输入转速	高低速比	最大流量	最高压力	重量	适用机重
Max. Output Torque	Max. Total Displacement	Motor Displacement	Gear Ratio	Max. Speed	Speed Ratio	Max. Flow	Max. Pressure	Mass	Applicable Vehicle Mass
N.m	ml/rev	ml/rev		rpm	High/Low	L/min	MPa	Kg	Ton
160000	43071.6	171.6 171.6/111	161.8 · 210.8 251	2500	Max. 2	250	35	750	60~110

液压原理图



外形尺寸

Dimensions

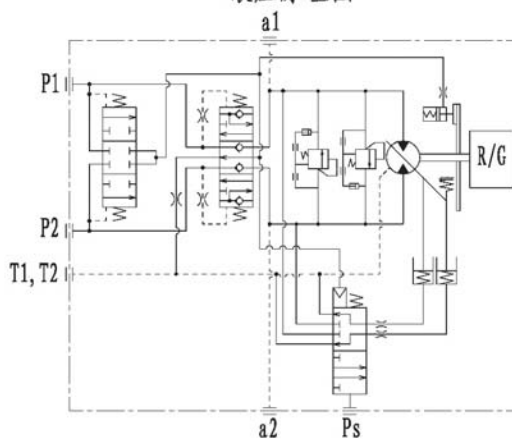


技术参数

Technical Data

最大输出扭矩	最大总排量	马达排量	传动比	最高输入转速	高低速比	最大流量	最高压力	重量	适用机重
Max.Output Torque	Max.Total Displacement	Motor Displacement	Gear Ratio	Max.Speed	Speed Ratio	Max.Flow	Max.Pressure	Mass	Applicable Vehicle Mass
N.m	ml/rev	ml/rev		rpm	High/Low	L/min	MPa	Kg	Ton
180000	43071.6	171.6	161.8 · 210.8 251	2500	Max. 2	250	35	750	60 ~ 110
		171.6/111							

液压原理图



IGY × × L 系列静液压驱动装置（车轮马达）

1、概述

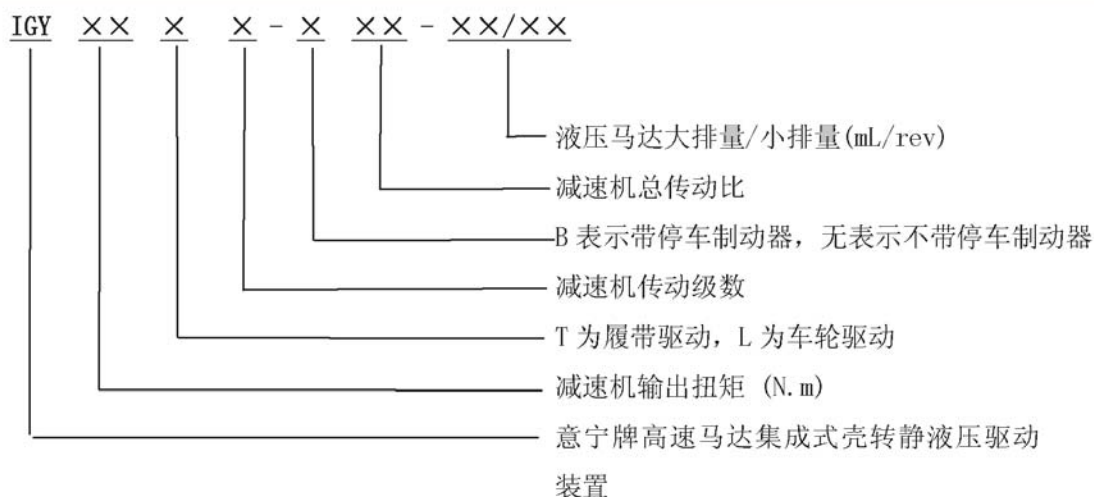
IGY××L 系列车轮用静液压驱动装置设计中采用了本公司的专利技术,它由集成于减速机内部的可变排量高速轴向柱塞马达、多片式制动器、行星减速机及功能阀块组成。它的特点是工作效率高、可靠性强、结构紧凑、工作压力高、可实现高、低两挡速度的切换,其输出为转动的外壳,转动的外壳配置了可承受大的轴向、径向负载的轴承和高强度螺栓,因而可直接与车轮连接,驱动车轮转动。

该系列产品的外形安装尺寸和主要技术参数与美国菲尔费德 (FAIRFIELD) 公司产品相类同,因此可以替代进口产品,该产品可以用于闭式系统亦可用于开式系统。

样本中所列出的车轮马达表示公司已投产的产品。我们也可根据客户要求提供其它安装尺寸及不同传动比的型号,也可以单独提供安装其它公司高速马达的行星减速机。如有需要,请与本公司研发中心联系。

该类产品已广泛用于高空作业车、压路机、轮式挖掘机、轨道车辆等轮式机械领域,。产品不但已在国内知名高空作业车及压路机生产厂家中使用,且产品已出口到俄罗斯、西班牙等欧洲国家。

2、型号说明



3、型号举例

IGY3400L2-B47-21/10 表示高速壳转静液压驱动装置输出扭矩为 3400N.m, 用于车轮驱动, 采用二级行星减速, 带停车制动器, 总传动比为 47, 液压马达低速挡排量为 21mL/rev, 高速挡排量为 10mL/rev。

IGY××L Hydrostatic Drive Series (Wheel Motor)

1. Brief Introduction

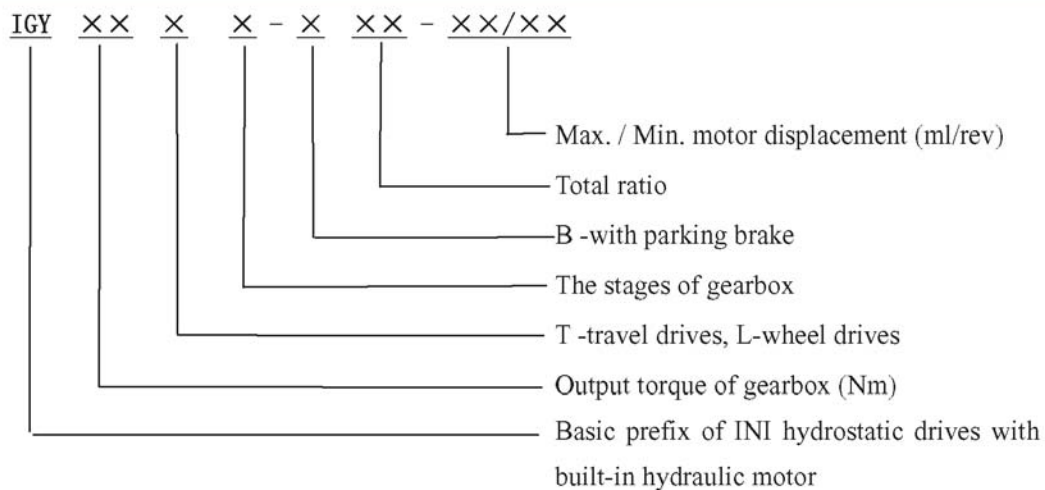
The IGY××L hydrostatic drive series adopt our patented technology and advanced manufacture method. The series consist of built-in variable displacement piston motor, multi-disc brake, planetary gearbox, and functional valve block. The drives feature high working efficiency, great reliability, compact design, high working pressure and Hi-low speed switch control. Due to high load capacity bearing and bolts, the drives can be directly installed in the wheel of mobile vehicles.

The Dimensions and technical performance of the drives conform to the Fairfield type. The drives can also be used for replacement in closed loop system or open loop system.

The drives described in this catalog are of the standard type. Other design variants with different ratio, dimensions, power characteristics and different hydraulic motor are available if so requested for specific applications.

The drives have been widely applied in aerial platform, road roller, wheeled excavator, track vehicles, and other wheeled mobile equipment. The drives not only have been used by domestic famous aerial platform and road roller company, but also have been exported to Russia, Spain and so on.

2. Model Options

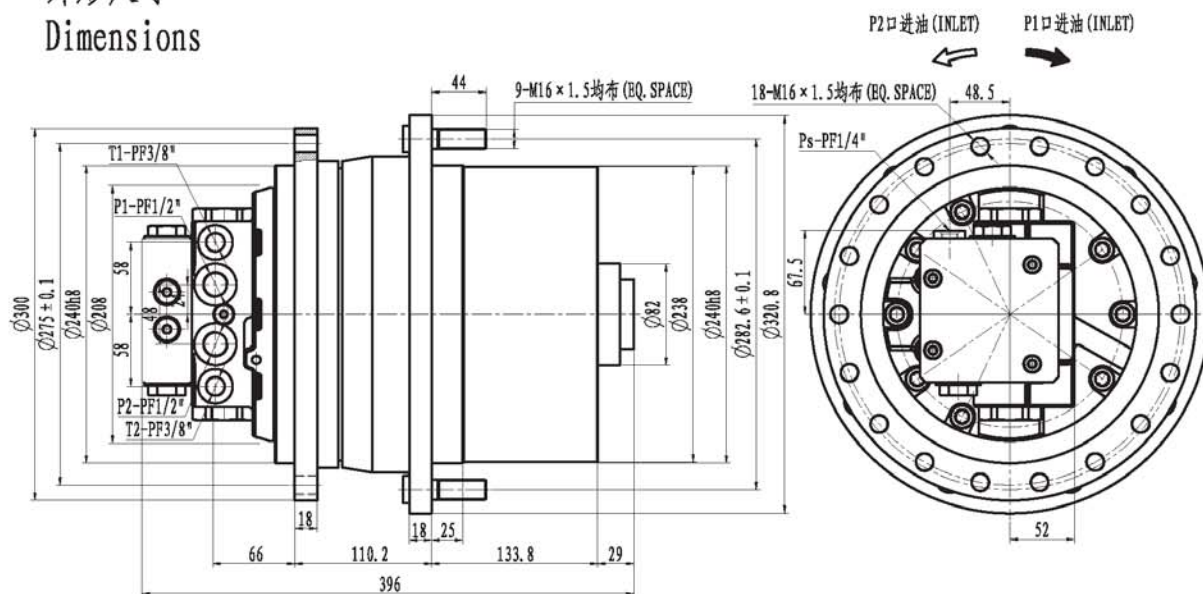


3. Options Example

IGY3400L2-B47-21/10 represents that the drive has output torque of 3400Nm, two stages planetary gearbox for wheel drives with a total ratio of 47, fitted with a multi-disc parking brake, and high speed axial hydraulic motor. The hydraulic motor has a variable displacement (two speed) of 21ml/rev in low speed position and 10ml/rev in high speed position.

外形尺寸

Dimensions



技术参数

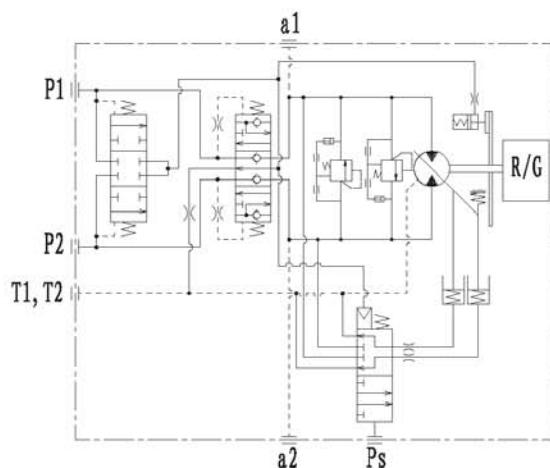
Specifications

最大输出扭矩 Max. Output Torque N. m	最大总排量 Max. Total Displacement ml/rev	液压马达排量 Motor Displacement ml/rev	传动比 Gear Ratio	最高转速 Max. Speed rpm	最大流量 Max. Flow L/min	最高压力 Max. Pressure MPa	重量 Mass Kg	适用机重 Applicable Vehicle Mass Ton
10000	2673.8	51.9/34 44.4/26.6 51.9/28.4 44.4/22.2	42.123 51.518	55	80	35	120	8~10

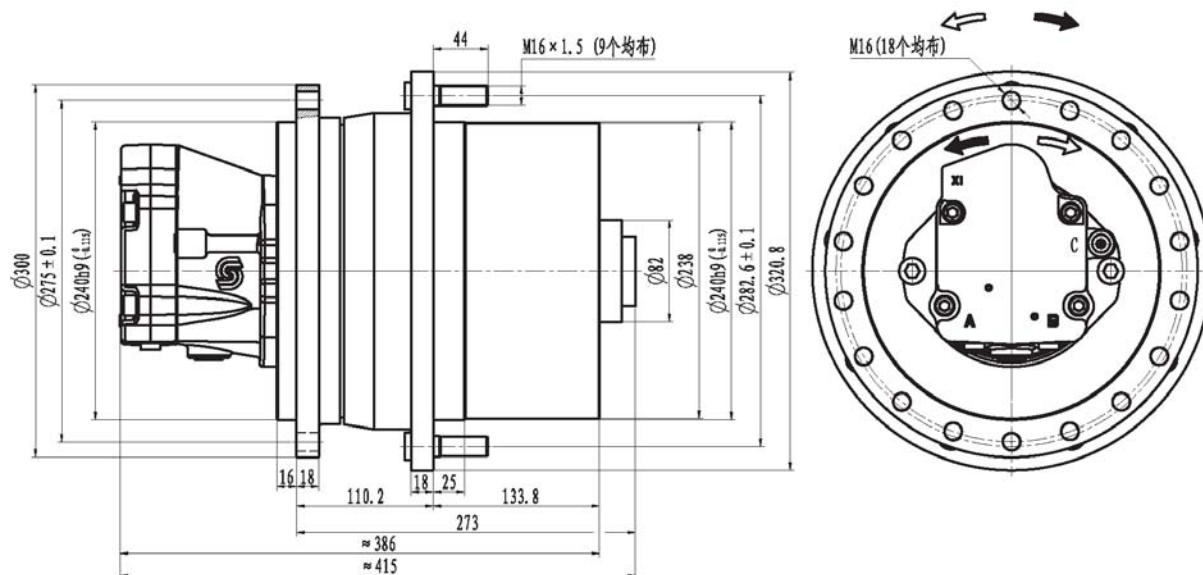
注：本产品适用于开式系统，如需闭式系统产品请联系应用工程师。

Note: The product suitable for open loop system, if you need closed loop system product, please contact iNi appl. engineer.

液压原理图



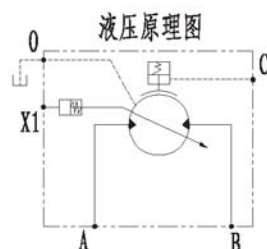
外形尺寸



技术参数

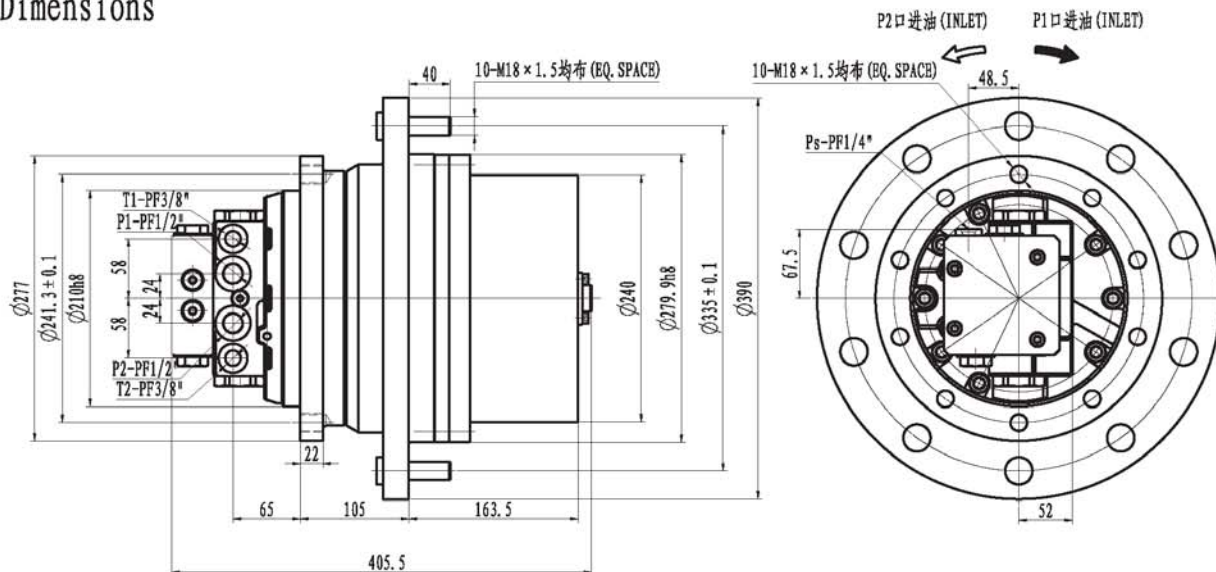
输出扭矩 (N·m)		传动比	制动器			液压马达		
连续	最大		静制动扭矩 (N·m)	初始释放压力 (MPa)	完全释放压力 (MPa)	型号	最高压力 (MPa)	最高转速 (r/min)
5500	11000	46.435	230	1.2	1.8	萨澳-丹佛斯 KC/LC系列插装马达	35	3500
		42.123	260					

1、本产品适用于闭式系统；
2、本产品配置有离合解锁机构，可以方便实现故障下拖行；



外形尺寸

Dimensions



技术参数

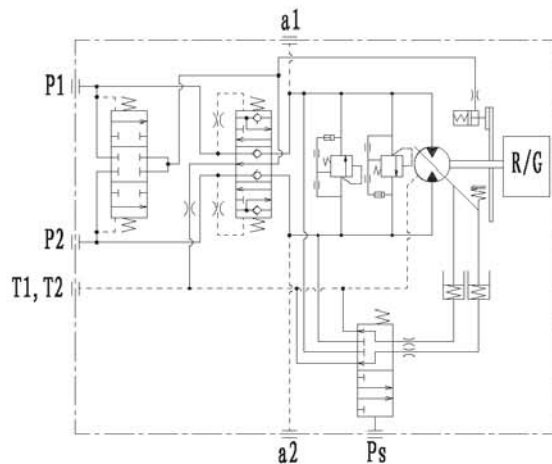
Specifications

最大输出扭矩	最大总排量	液压马达排量		传动比	最高转速	最大流量	最高压力	重量	适用机重
Max. Output Torque	Max. Total Displacement	Motor Displacement		Gear Ratio	Max. Speed	Max. Flow	Max. Pressure	Mass	Applicable Vehicle Mass
N. m	ml/rev	ml/rev			rpm	L/min	MPa	Kg	Ton
15000	4019.6	51.9/34 44.4/26.6	51.9/28.4 44.4/22.2	77.449	35	80	30	180	18

注：本产品适用于开式系统，如需闭式系统产品请联系应用工程师。

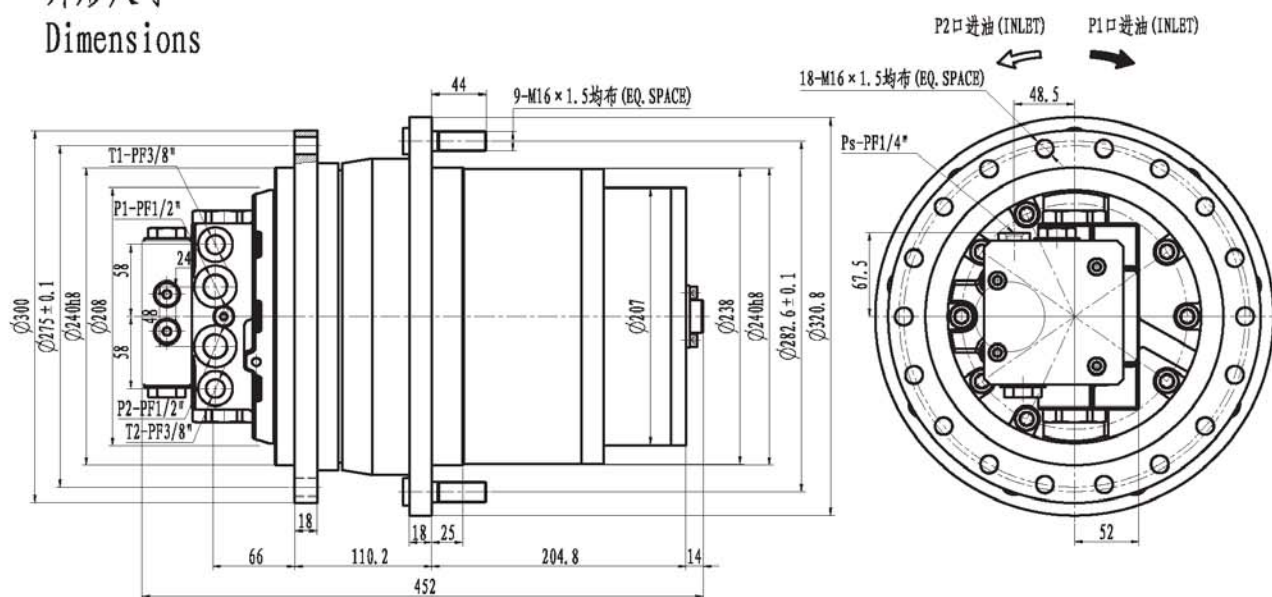
Note: The product suitable for open loop system, if you need closed loop system product, please contact iNi appl. engineer.

液压原理图



外形尺寸

Dimensions



技术参数

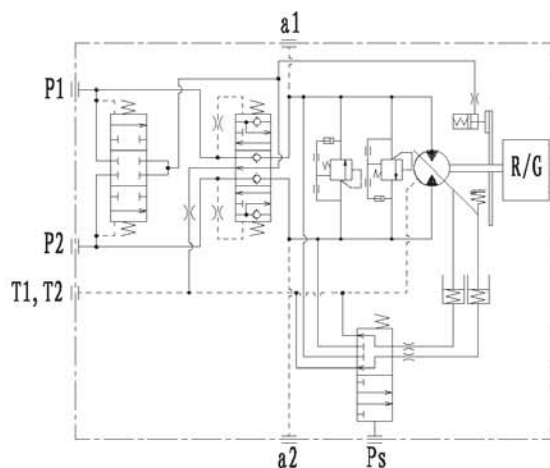
Specifications

最大输出扭矩 Max. Output Torque N.m	最大总排量 Max. Total Displacement ml/rev	液压马达排量 Motor Displacement ml/rev	传动比 Gear Ratio	最高转速 Max. Speed rpm	最大流量 Max. Flow L/min	最高压力 Max. Pressure MPa	重量 Mass Kg	适用机重 Applicable Vehicle Mass Ton
15000	4883.0	51.9/34 44.4/26.6 51.9/28.4 44.4/22.2	94.087	30	80	25	180	18

注：本产品适用于开式系统，如需闭式系统产品请联系应用工程师。

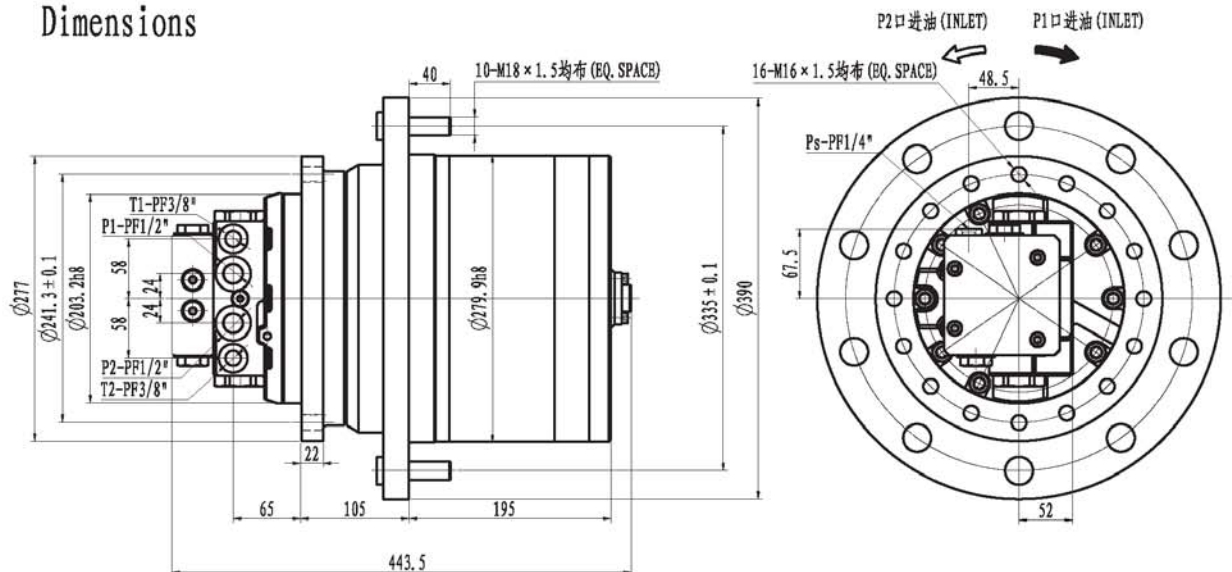
Note: The product suitable for open loop system, if you need closed loop system product, please contact iNi appl. engineer.

液压原理图



外形尺寸

Dimensions



技术参数

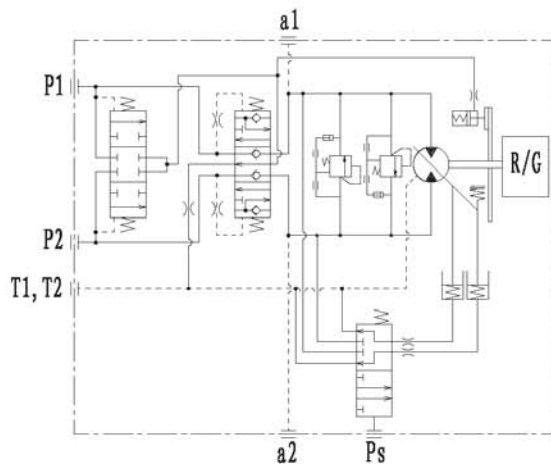
Specifications

最大输出扭矩 Max. Output Torque N. m	最大总排量 Max. Total Displacement ml/rev	液压马达排量 Motor Displacement ml/rev	传动比 Gear Ratio	最高转速 Max. Speed rpm	最大流量 Max. Flow L/min	最高压力 Max. Pressure MPa	重量 Mass Kg	适用机重 Applicable Vehicle Mass Ton
17000	4856	51.9/34 44.4/26.6	93.565	30	80	30	200	18

注：本产品适用于开式系统，如需闭式系统产品请联系应用工程师。

Note: The product suitable for open loop system, if you need closed loop system product, please contact iNi appl. engineer.

液压原理图

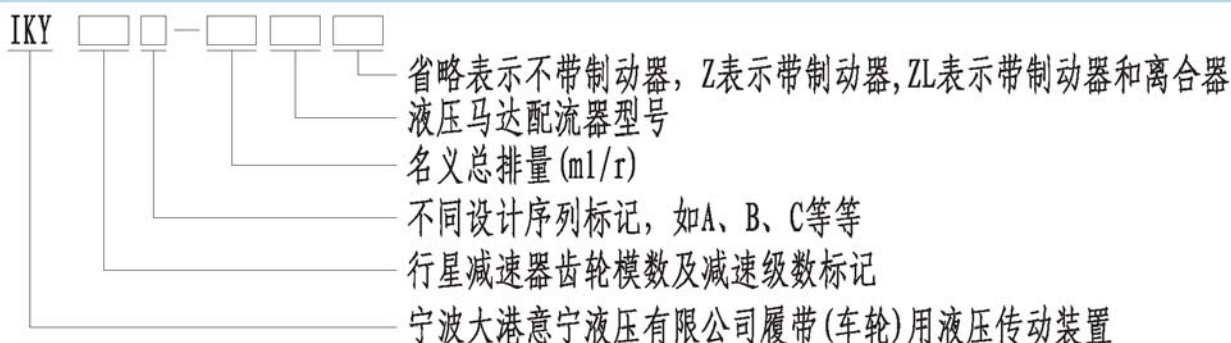


IKY系列履带（车轮）用液压传动装置

1、概述

IKY系列履带（车轮）用液压传动装置由具有制动功能的阀组、液压马达、制动器、一级或二级行星减速器组成。它的特点是工作和起动效率高、工作可靠，其输出为转动的外壳，可直接与车轮或履带驱动链轮相连接，由于轴向尺寸较小，因而可内藏在车轮或履带内，这一特点提高了行走机械的整机通过能力，并使整机的结构紧凑外形美观。因而该产品已广泛用于工程车辆、履带挖掘机、非开挖钻机、潜孔钻机、轨道车辆、煤炭掘进机、矿山钻机、旋挖钻机等设备的履带或车轮的驱动装置中，产品不但畅销全国，并出口到新加坡、印度、韩国、荷兰等地区。

2、型号说明：



3、型号说明举例：

IKY34A-6500D240201Z表示行星减速器为二级减速，齿轮模数第一级3mm，第二级为4mm，设计序列为A，名义总排量为6500ml/r，液压马达配流器型号为D240201，带制动器。

4、名词解释：

(1) 总排量(ml/r)：液压传动装置每转一周所需要的油量。

$$\text{总排量 (ml/r)} = \text{液压马达排量 (ml/r)} \times \text{减速比}$$

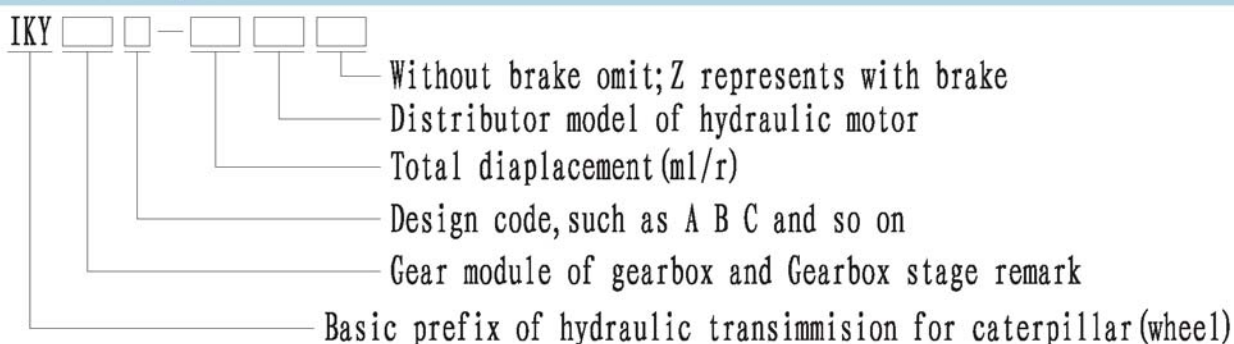
$$(2) \text{ 泵理论供油流量 (L/min)} = \frac{\text{总排量 (ml/r)} \times \text{液压传动装置输出轴转速 (r/min)}}{1000}$$

IKY Series Hydraulic Transmission For Caterpillar (Wheel)

1、Brief introduction

IKY series hydraulic transmission for caterpillar (wheel) consist of a variety of valve block with the function of brake, hydraulic motor, one or two level planetary gearbox. a number of excellent features distinguish from other similar products in design: high efficiency of startup and operation, high reliability, the revolved casing as output can directly connect with the chain wheel of caterpillar drive. Due to the small axial dimension, the hydraulic transmission can be set inside of wheel or caterpillar. They not only improve the trafficability of the motion machine, but also make the figure compact and elegant. So they have been widely applied in construction vehicle, track wheel, caterpillar excavator, caterpillar motion drive mechanism of a variety of drillers and caterpillar mining machine.

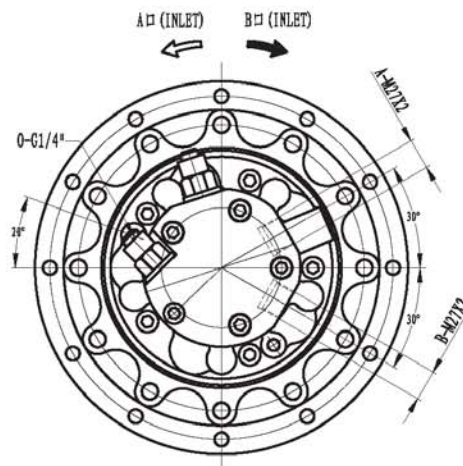
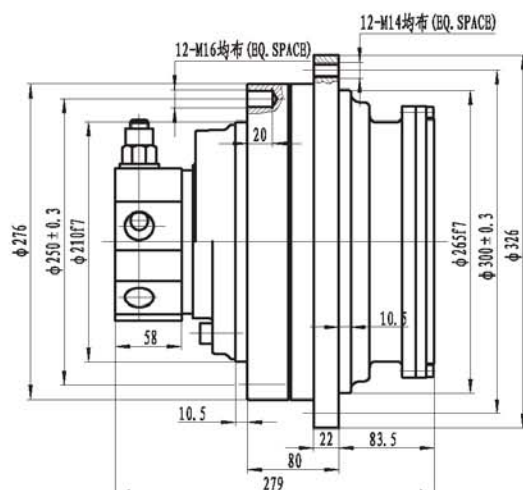
2、Model options



3、Options example

IKY34A-6500D240201Z represents that planetary gearbox have two stage, the 1st stage gear module is 3mm and the 2nd stage is 4mm, the serial label is A, nominal total displacement is 6500 cc/rev and distributor model is D240201 with brake.

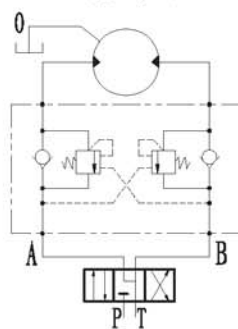
外形尺寸 Dimensions



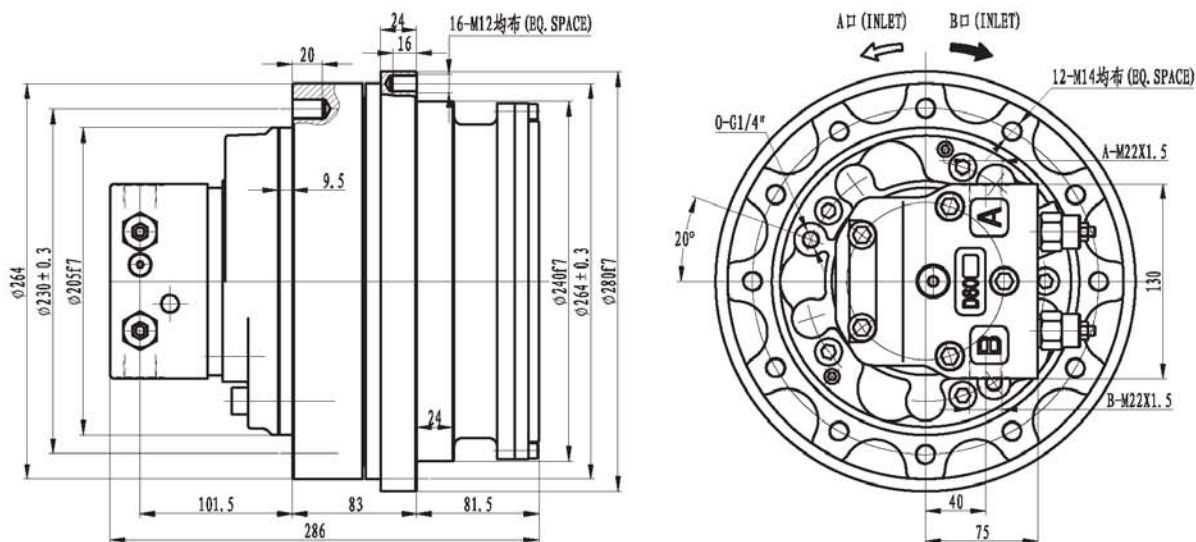
技术参数 Specifications

型号 Model	最大输出扭矩 (N·m) Max. Output Torque	转速 (rpm) Speed	传动比 Ratio	最高压力 (MPa) Max. Pressure	总排量 (ml/r) Total Displacement	液压马达 Hydraulic Motor 型号 排量 (ml/r) Model Displacement	重量 (Kg) Mass	适用机重 (ton) Applicable Vehicle Mass
IKY2.5B-1200D1202	3100	1-90	6	20	1146	INM05-200D1202 191	55	3.5
IKY2.5B-1000D1202	2670	1-90	6	20	996	INM05-170D1202 166	55	3
IKY2.5B-900D1202	2430	1-100	6	20	906	INM05-150D1202 151	55	3
IKY2.5B-800D1202	2080	1-100	6	20	774	INM05-130D1202 129	55	2.5
IKY2.5B-700D1202	1850	1-100	6	20	690	INM05-110D1202 115	55	2.5
IKY2.5B-520D1202	1380	1-110	6	20	516	INM05-90D1202 86	55	1~2
IKY2.5B-450D1202	1190	1-110	6	20	444	INM05-75D1202 74	55	1~2
IKY2.5B-570D1202	1550	1-200	3	20	573	INM05-200D1202 191	60	1~2
IKY2.5B-500D1202	1335	1-200	3	20	498	INM05-170D1202 166	60	1~2
IKY2.5B-450D1202	1215	1-210	3	20	453	INM05-150D1202 151	60	1~2
IKY2.5B-390D1202	1040	1-210	3	20	387	INM05-130D1202 129	60	1~2

液压原理图



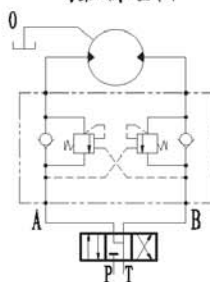
外形尺寸 Dimensions



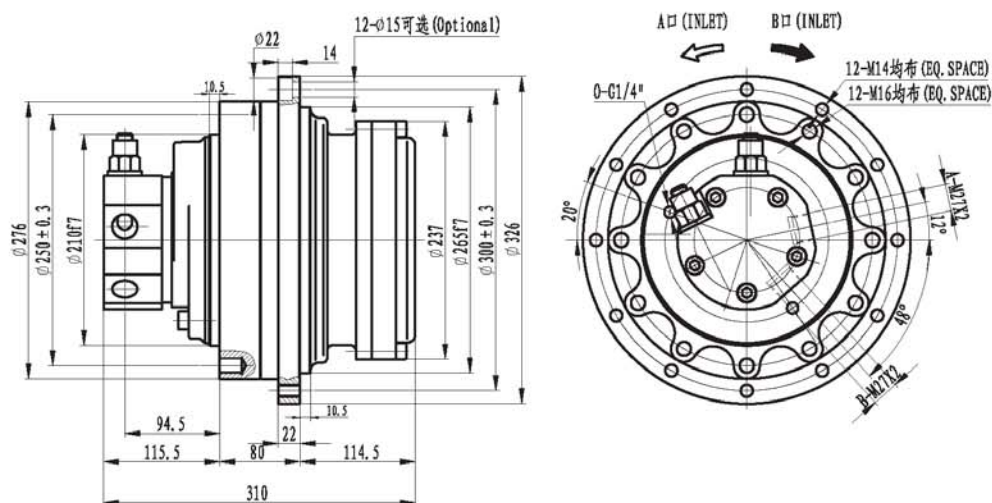
技术参数 Specifications

型号 Model	最大输出扭矩(N·m) Max. Output Torque	转速 (rpm) Speed	传动比 Ratio	最高压力(MPa) Max. Pressure	总排量 (ml/r) Total Displacement	液压马达 Hydraulic Motor 型号 排量(ml/r) Model Displacement	重量(Kg) Mass	适用机重(ton) Applicable Vehicle Mass
IKY2.5B-1200D1202	3100	1-90	6	20	1146	INM05-200D1202 191	55	3.5
IKY2.5B-1000D1202	2670	1-90	6	20	996	INM05-170D1202 166	55	3
IKY2.5B-900D1202	2430	1-100	6	20	906	INM05-150D1202 151	55	3
IKY2.5B-800D1202	2080	1-100	6	20	774	INM05-130D1202 129	55	2.5
IKY2.5B-700D1202	1850	1-100	6	20	690	INM05-110D1202 115	55	2.5
IKY2.5B-520D1202	1380	1-110	6	20	516	INM05-90D1202 86	55	1~2
IKY2.5B-450D1202	1190	1-110	6	20	444	INM05-75D1202 74	55	1~2
IKY2.5B-570D1202	1550	1-200	3	20	573	INM05-200D1202 191	60	1~2
IKY2.5B-500D1202	1335	1-200	3	20	498	INM05-170D1202 166	60	1~2
IKY2.5B-450D1202	1215	1-210	3	20	453	INM05-150D1202 151	60	1~2
IKY2.5B-390D1202	1040	1-210	3	20	387	INM05-130D1202 129	60	1~2

液压原理图



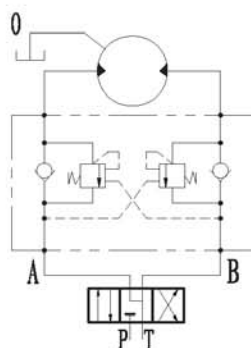
外形尺寸 Dimensions



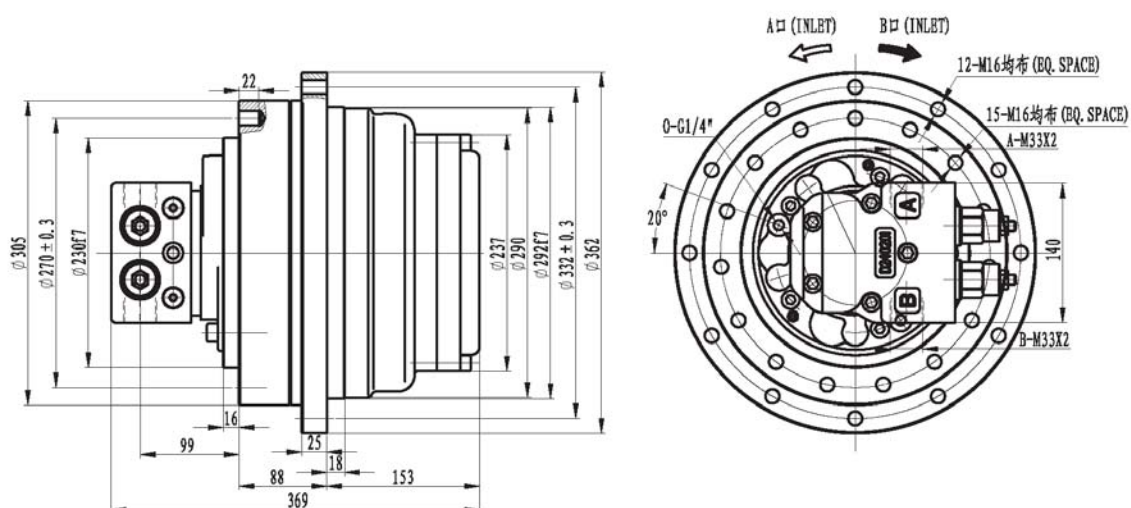
技术参数 Specifications

型号 Model	最大输出扭矩 (N·m) Max. Output Torque	转速 (rpm) Speed	传动比 Ratio	最高压力 (MPa) Max. Pressure	总排量 (ml/r) Total Displacement	液压马达 Hydraulic Motor	重量 (Kg) Mass	适用机重 (ton) Applicable Vehicle Mass
						型号 排量 (ml/r) Model Displacement		
IKY2.52.5A-3600D1202	8000	0.4-32	19	18	3629	INM05-200D1202 191	80	7~8
IKY2.52.5A-3200D1202	8000	0.4-38	19	20	3154	INM05-170D1202 166	80	7~8
IKY2.52.5A-2900D1202	7300	0.4-42	19	20	2869	INM05-150D1202 151	80	6~7
IKY2.52.5A-2500D1202	6300	0.4-46	19	20	2451	INM05-130D1202 129	80	5~6
IKY2.52.5A-2200D1202	5600	0.4-50	19	20	2185	INM05-110D1202 115	80	5~6
IKY2.52.5A-1600D1202	4200	0.4-58	19	20	1634	INM05-90D1202 86	80	4~5
IKY2.52.5A-1400D1202	3600	0.4-63	19	20	1406	INM05-75D1202 74	80	4~5

液压原理图



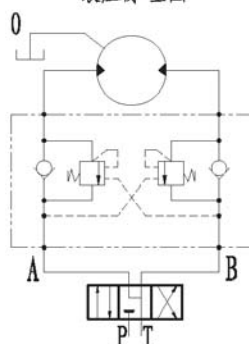
外形尺寸 Dimensions



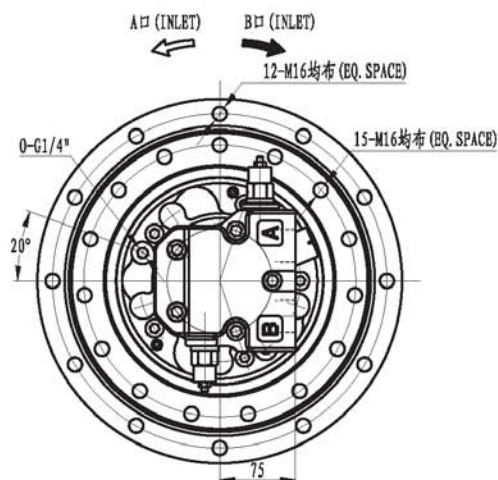
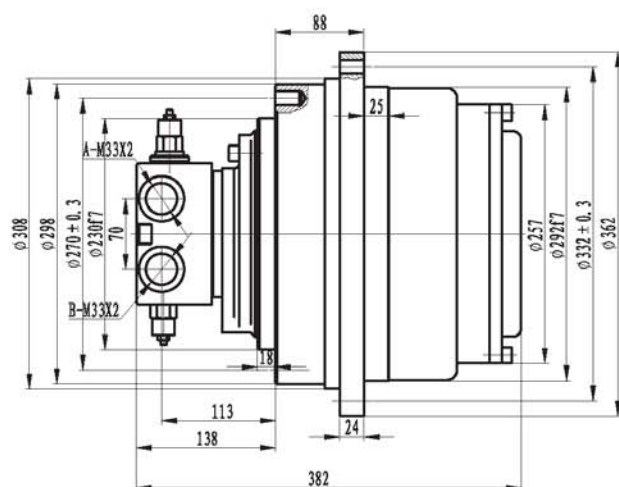
技术参数 Specifications

型号 Model	最大输出扭矩 (N·m) Max. Output Torque	转速 (rpm) Speed	传动比 Ratio	最高压力 (MPa) Max. Pressure	总排量 (ml/r) Total Displacement	液压马达 Hydraulic Motor 型号 排量 (ml/r) Model Displacement	重量 (Kg) Mass	适用机重 (ton) Applicable Vehicle Mass
IKY2.52.5B-4600D2402	9600	0.25-32	24	17	4584	INM05-200D2402 191	100	8-10
IKY2.52.5B-4000D2402	9600	0.25-33	24	19	3984	INM05-170D2402 166	100	8-10
IKY2.52.5B-3600D2402	9600	0.25-36	24	20	3624	INM05-150D2402 151	100	8-10
IKY2.52.5B-3100D2402	9500	0.25-42	24	23	3096	INM05-130D2402 129	100	8-10
IKY2.52.5B-2800D2402	8470	0.25-45	24	23	2760	INM05-110D2402 115	100	8-10
IKY2.52.5B-2100D2402	6330	0.25-50	24	23	2064	INM05-90D2402 86	100	8-10

液压原理图



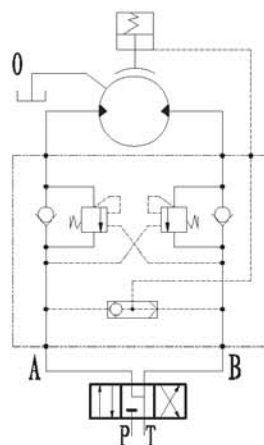
外形尺寸 Dimensions



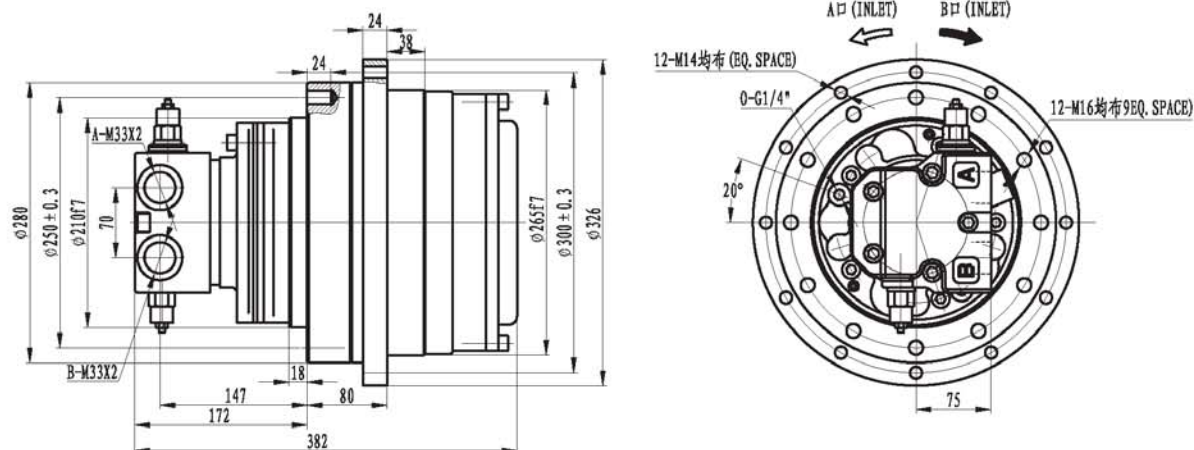
技术参数 Specifications

型号 Model	最大输出扭矩 (N·m) Max. Output Torque	转速 (rpm) Speed	传动比 Ratio	最高压力 (MPa) Max. Pressure	总排量 (ml/r) Total Displacement	液压马达 Hydraulic Motor		重量 (Kg) Mass	适用机重 (ton) Applicable Vehicle Mass
						型号 Model	排量 (ml/r) Displacement		
IKY2.53A-3600D240201Z	10000	0.3-36	19	21	3629	INM05-200D240201	191	110	8~10
IKY2.53A-3200D240201Z	8700	0.3-40	19	21	3154	INM05-170D240201	166	110	8~10
IKY2.53A-2900D240201Z	8500	0.3-45	19	23	2869	INM05-150D240201	151	110	6~8
IKY2.53A-2500D240201Z	7260	0.3-50	19	23	2451	INM05-130D240201	129	110	6~8
IKY2.53A-2200D240201Z	6470	0.3-55	19	23	2185	INM05-110D240201	115	110	6~8

液压原理图



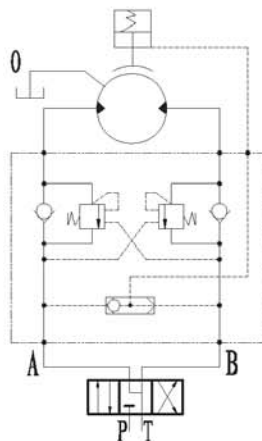
外形尺寸 Dimensions



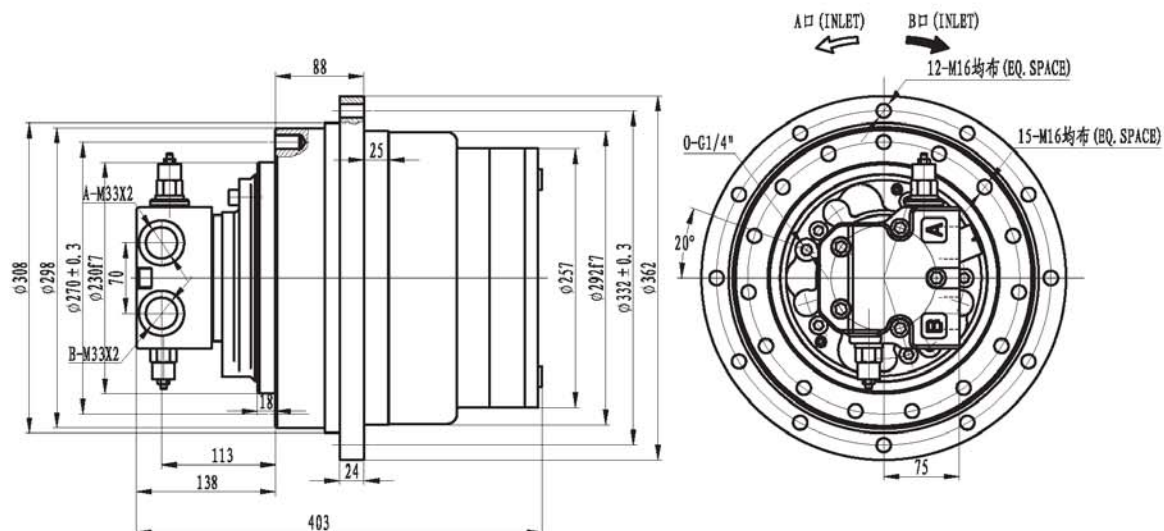
技术参数 Specifications

型号 Model	最大输出扭矩 (N·m) Max. Output Torque	转速 (rpm) Speed	传动比 Ratio	最高压力 (MPa) Max. Pressure	总排量 (ml/r) Total Displacement	液压马达 Hydraulic Motor		重量 (Kg) Mass	适用机重 (ton) Applicable Vehicle Mass
						型号 Model	排量 (ml/r) Displacement		
IKY2.53B-2900D240201Z	8500	0.3-42	19	23	2869	INM05-150D240201	151	100	6-8
IKY2.53B-2500D240201Z	7260	0.3-48	19	23	2451	INM05-130D240201	129	100	6-8
IKY2.53B-2200D240201Z	6470	0.3-55	19	23	2185	INM05-110D240201	115	100	6-8
IKY2.53B-1600D240201Z	4840	0.3-58	19	23	1634	INM05-90D240201	86	100	6-8
IKY2.53B-1400D240201Z	4160	0.3-63	19	23	1406	INM05-75D240201	74	100	6-8

液压原理图



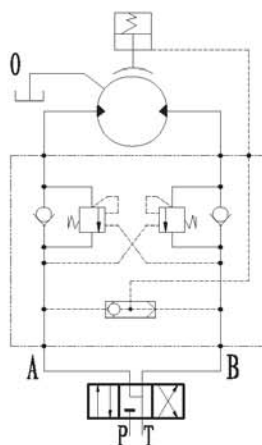
外形尺寸 Dimensions



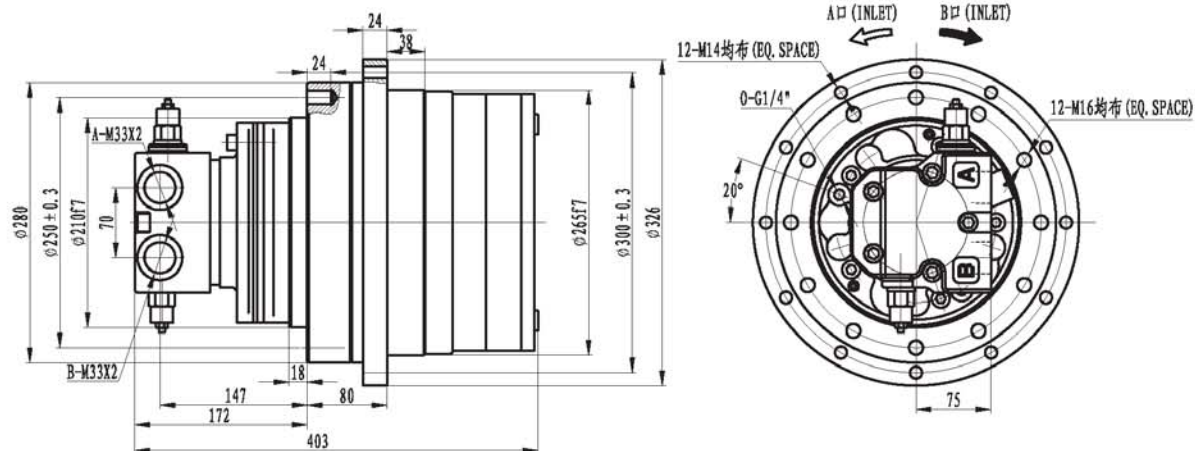
技术参数 Specifications

型号 Model	最大输出扭矩 (N·m) Max. Output Torque	转速 (rpm) Speed	传动比 Ratio	最高压力 (MPa) Max. Pressure	总排量 (ml/r) Total Displacement	液压马达 Hydraulic Motor		重量 (Kg) Mass	适用机重 (ton) Applicable Vehicle Mass
						型号 Model	排量 (ml/r) Displacement		
IKY33A-3600D240201Z	10000	0.3-36	19	21	3629	INM05-200D240201	191	110	8~10
IKY33A-3200D240201Z	8700	0.3-40	19	21	3154	INM05-170D240201	166	110	8~10
IKY33A-2900D240201Z	8500	0.3-45	19	23	2869	INM05-150D240201	151	110	6~8
IKY33A-2500D240201Z	7260	0.3-50	19	23	2451	INM05-130D240201	129	110	6~8
IKY33A-2200D240201Z	6470	0.3-55	19	23	2185	INM05-110D240201	115	110	6~8

液压原理图



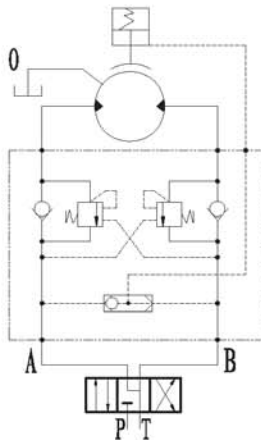
外形尺寸 Dimensions



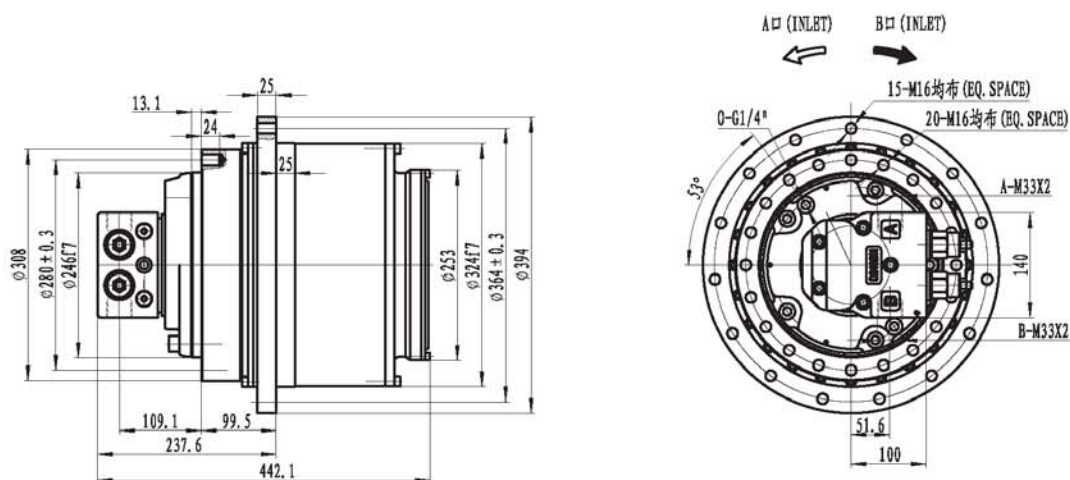
技术参数 Specifications

型号 Model	最大输出扭矩 (N·m) Max. Output Torque	转速 (rpm) Speed	传动比 Ratio	最高压力 (MPa) Max. Pressure	总排量 (ml/r) Total Displacement	液压马达 Hydraulic Motor		重量 (Kg) Mass	适用机重 (ton) Applicable Vehicle Mass
						型号 Model	排量 (ml/r) Displacement		
IKY33B-2900D240201Z	8500	0.3 - 42	19	23	2869	INW05-150D240201	151	100	6-8
IKY33B-2500D240201Z	7260	0.3 - 48	19	23	2451	INW05-130D240201	129	100	6-8
IKY33B-2200D240201Z	6470	0.3 - 55	19	23	2185	INW05-110D240201	115	100	6-8
IKY33B-1600D240201Z	4840	0.3 - 58	19	23	1634	INW05-90D240201	86	100	6-8
IKY33B-1400D240201Z	4160	0.3 - 63	19	23	1406	INW05-75D240201	74	100	6-8

液压原理图



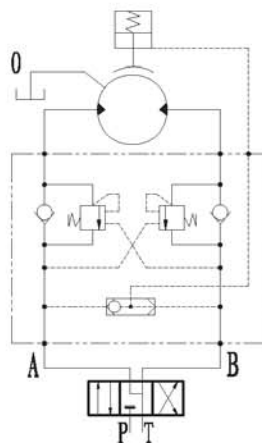
外形尺寸 Dimensions



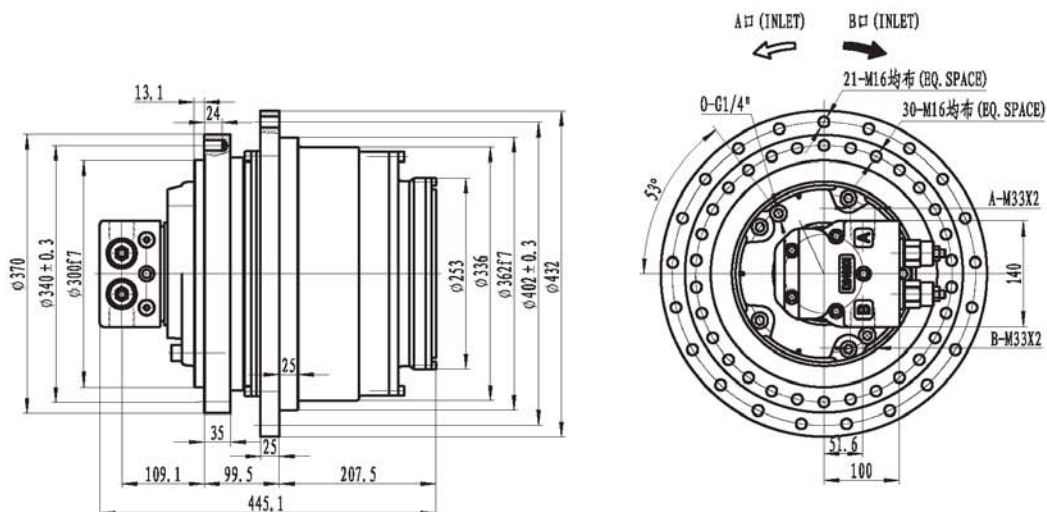
技术参数 Specifications

型号 Model	最大输出扭矩 (N·m) Max. Output Torque	转速 (rpm) Speed	传动比 Ratio	最高压力 (MPa) Max. Pressure	总排量 (ml/r) Total Displacement	液压马达 Hydraulic Motor		重量 (kg) Mass	适用机重 (ton) Applicable Vehicle Mass
						型号 Model	排量 (ml/r) Displacement		
IKY34A-7500D240201Z	23000	0.2-29	37.5	23.5	7537.5	INM1-200D240201	201	200	14 ~ 18
IKY34A-6500D240201Z	19700	0.2-30	37.5	23.5	6450	INM1-175D240201	172	200	12 ~ 14
IKY34A-5800D240201Z	17700	0.2-32	37.5	23.5	5775	INM1-150D240201	154	200	10 ~ 12
IKY34A-3700D240201Z	11400	0.2-32	37.5	23.5	3712.5	INM1-100D240201	99	200	8 ~ 10
IKY34A-5300D240201Z	16300	0.2-40	26.5	23.5	5326.5	INM1-200D240201	201	210	12 ~ 14
IKY34A-4400D240201Z	13600	0.2-42	26.5	23.5	4458	INM1-175D240201	172	210	10 ~ 12
IKY34A-4100D240201Z	12500	0.2-45	26.5	23.5	4081	INM1-150D240201	154	210	8 ~ 10

液压原理图



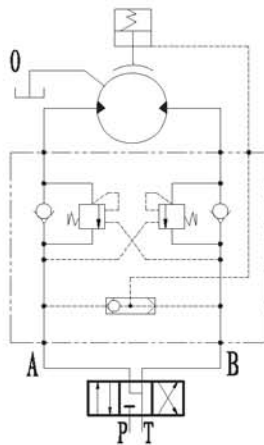
外形尺寸 Dimensions



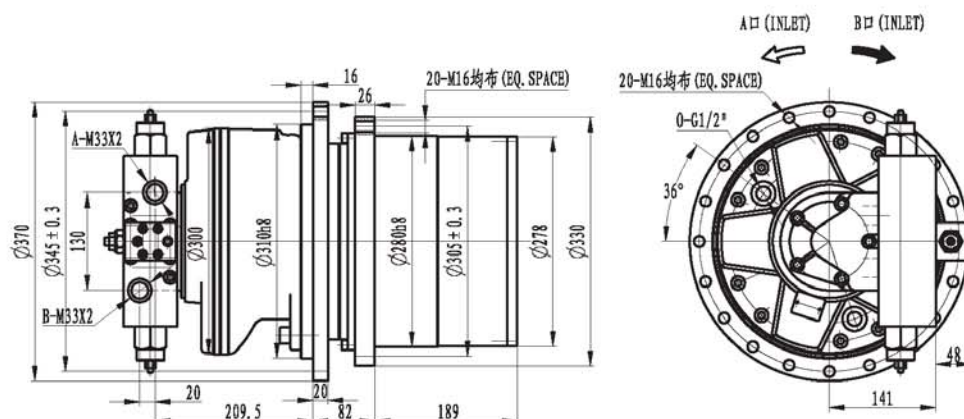
技术参数 Specifications

型号 Model	最大输出扭矩 (N·m) Max. Output Torque	转速 (rpm) Speed	传动比 Ratio	最高压力 (MPa) Max. Pressure	总排量 (ml/r) Total Displacement	液压马达 Hydraulic Motor		重量 (Kg) Mass	适用机重 (ton) Applicable Vehicle Mass
						型号 Model	排量 (ml/r) Displacement		
IKY34B-7500D240201Z	23000	0.2-29	37.5	23.5	7537.5	INM1-200D240201	201	240	14 ~ 18
IKY34B-6500D240201Z	19700	0.2-30	37.5	23.5	6450	INM1-175D240201	172	240	12 ~ 14
IKY34B-5800D240201Z	17700	0.2-32	37.5	23.5	5775	INM1-150D240201	154	240	10 ~ 12
IKY34B-3700D240201Z	11400	0.2-32	37.5	23.5	3712.5	INM1-100D240201	99	240	8 ~ 10
IKY34B-5300D240201Z	16300	0.2-40	26.5	23.5	5326.5	INM1-200D240201	201	250	12 ~ 14
IKY34B-4400D240201Z	13600	0.2-42	26.5	23.5	4458	INM1-175D240201	172	250	10 ~ 12
IKY34B-4100D240201Z	12500	0.2-45	26.5	23.5	4081	INM1-150D240201	154	250	8 ~ 10

液压原理图



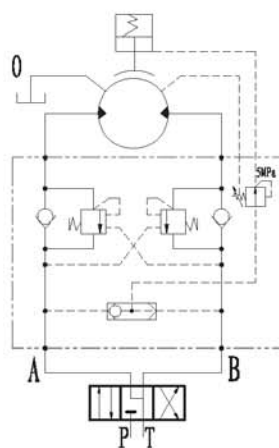
外形尺寸 Dimensions



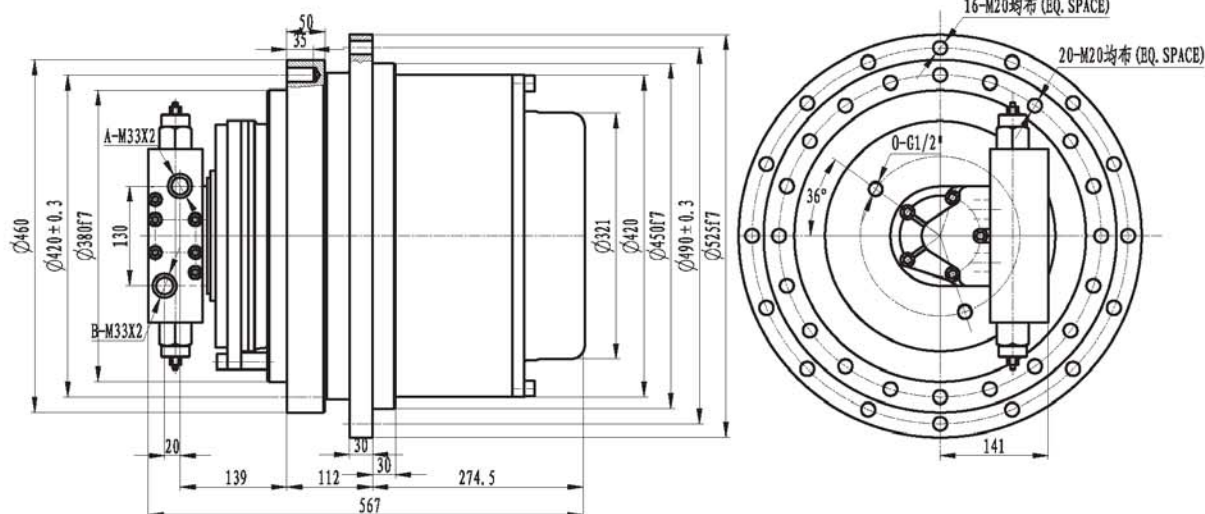
技术参数 Specifications

型号 Model	最大输出扭矩 (N·m) Max. Output Torque	转速 (rpm) Speed	传动比 Ratio	最高压力 (MPa) Max. Pressure	总排量 (ml/r) Total Displacement	液压马达 Hydraulic Motor		重量 (Kg) Mass	适用机重 (ton) Applicable Vehicle Mass
						型号 Model	排量 (ml/r) Displacement		
IKY44A-9600D47F2402011Z	24000	0.1-30	19.4	20	9564.2	INM2-500D47F2402011	493	200	16~18
IKY44A-8300D47F2402011Z	21000	0.1-30	19.4	20	8245	INM2-420D47F2402011	425	200	14~16
IKY44A-6800D47F2402011Z	17000	0.1-30	19.4	20	6731.8	INM2-350D47F2402011	347	200	12~14

液压原理图



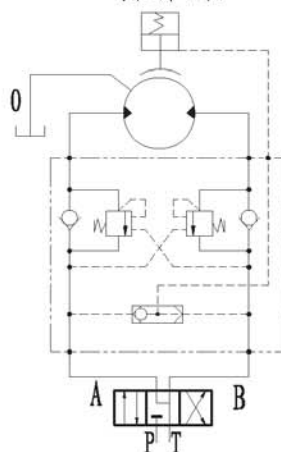
外形尺寸 Dimensions



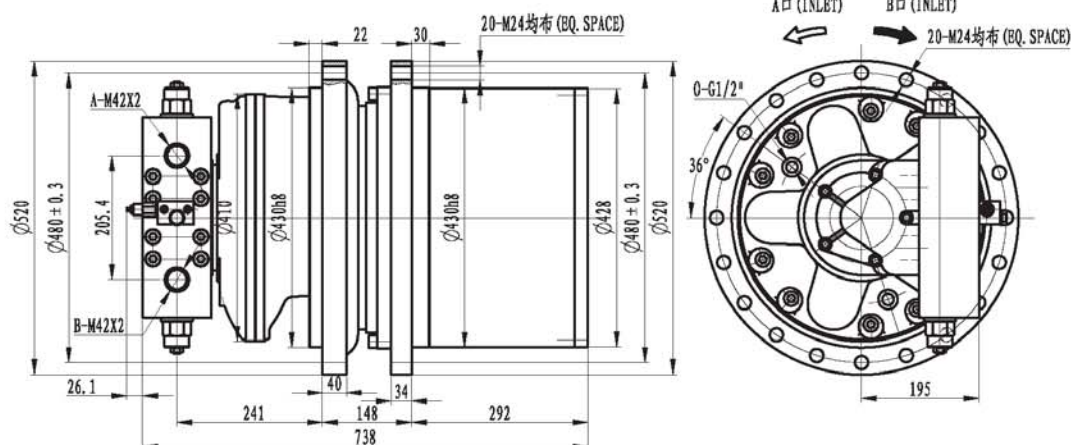
技术参数 Specifications

型号 Model	最大输出扭矩 (N·m) Max. Output Torque	转速 (rpm) Speed	传动比 Ratio	最高压力 (MPa) Max. Pressure	总排量 (ml/r) Total Displacement	液压马达 Hydraulic Motor		重量 (Kg) Mass	适用机重 (ton) Applicable Vehicle Mass
						型号 Model	排量 (ml/r) Displacement		
IKY45A-1600D47F240201Z	48000	0.2 - 15	37.5	23	15937.5	INM2-420D47F240201	425	240	24 ~ 30
IKY45A-1300D47F240201Z	39000	0.2 - 19	37.5	23	13012.5	INM2-350D47F240201	347	240	20 ~ 24
IKY45A-1150D47F240201Z	34000	0.2 - 21	37.5	23	11400	INM2-300D47F240201	304	240	18 ~ 24
IKY45A-950D47F240201Z	28000	0.2 - 26	37.5	23	9412.5	INM2-250D47F240201	251	240	16 ~ 18

液压原理图



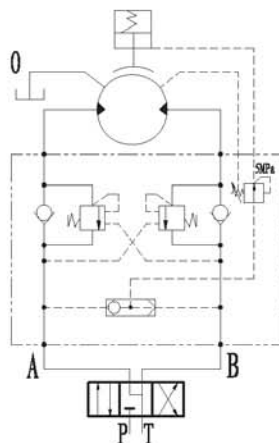
外形尺寸 Dimensions



技术参数 Specifications

型号 Model	最大输出扭矩 (N·m) Max. Output Torque	转速 (rpm) Speed	传动比 Ratio	最高压力 (MPa) Max. Pressure	总排量 (ml/r) Total Displacement	液压马达 Hydraulic Motor		重量 (Kg) Mass	适用机重 (ton) Applicable Vehicle Mass
						型号 Model	排量 (ml/r) Displacement		
IKY66A-26000D90F4802011Z	80000	0.1-11	19.4	24	25530.4	INM4-13000D90F4802011	1316	425	50
IKY66A-25000D90F4802011Z	75000	0.1-12	19.4	24	24191.8	INM4-12000D90F4802011	1250	425	45
IKY66A-22000D90F4802011Z	67000	0.1-14	19.4	24	21650.4	INM4-11000D90F4802011	1100	425	40

液压原理图



IYH 系列液压回转

1. 概述

IYH系列液压回转装置是由本公司自主研发，由液压马达、液压常闭多片式制动器、行星减速器、配流器等组成。并可根据各种工况要求带不同的配流器，配流器中集成了相应的液压阀，如平衡阀、过载阀、高压梭阀等。该系列回转具有结构紧凑、体积小、重量轻、外形美观等特点，在性能方上则具有安全性好、低速稳定性好、噪音小，运行可靠等特点，该产品主要用在随车起重机、汽车起重机、高空作业车等设备中，产品不但畅销三一重工等国内企业，并已出口到美国、奥地利、俄罗斯、澳大利亚、荷兰、印尼、韩国等国家。

2. 型号说明



3. 型号举例

IYH22A-1500D120221表示行星减速器一级、二级齿轮模数分别为2、2，设计序列号为A，回转额定扭矩为1500N. m，配流器的型号为D120221。

4. 参数说明

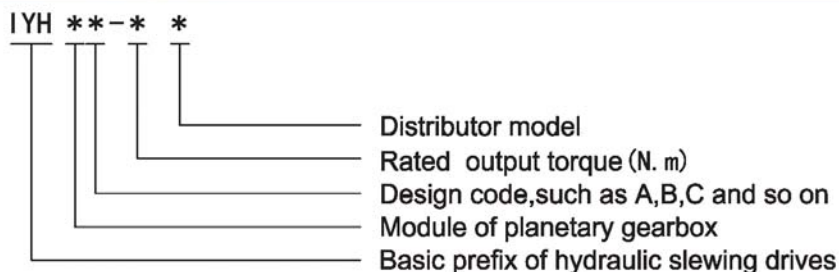
- 总排量是指回转装置每转一转所需供给的理论供油流量，单位为 (ml/r)。
- 供油流量是指泵的理论供油流量，计算中应考虑系统容积效率 (L/min)。

IYH series hydraulic slewing drives

1. Brief introduction

IYH series hydraulic slewing drives are self-developed with independent intellectual property rights. And they are mainly consist of hydraulic motor, multi-disc hydraulic brake, C type planetary gearbox and distributor. hydraulic motor can choose different distributor according to the working conditions, such as counterbalance valve, overload valve, shuttle valve, speed control directional valve and other function's valve. This series hydraulic slewing drives featured compact and elegant figure, small size and light weight, and a high efficiency and power, low noise and good operating performance. Therefore, the series hydraulic slewing drives have been widely used in mobile crane, vehicle crane, aerial platform, tracked vehicle and so on. IYH series hydraulic slewing drives have been well sold in China company such as SANY, and also have been exported to the USA, Japan, Australia, Russia, Austria, Netherlands, Indonesia, Korea and other areas in the world.

2. Model options

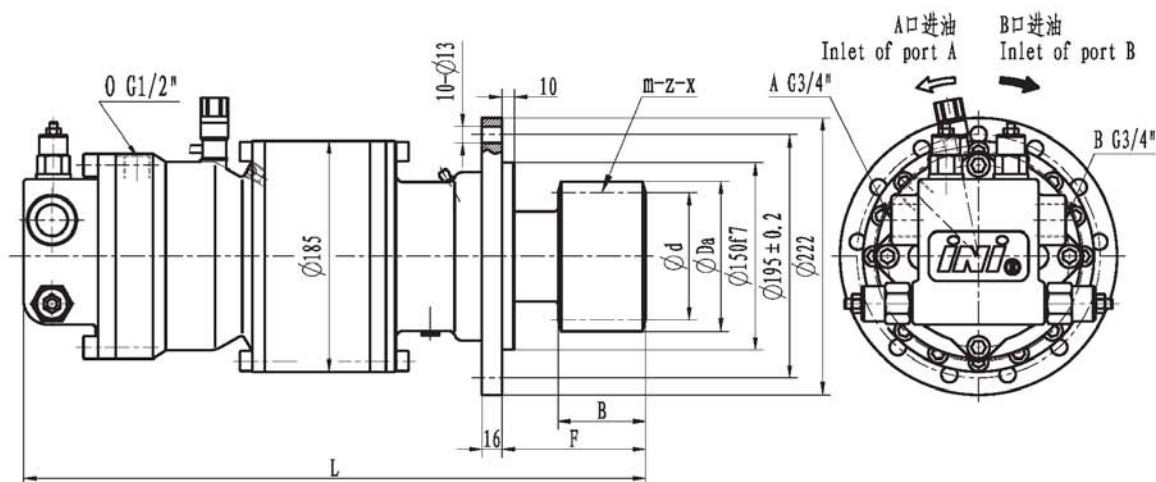


3. Options example

IYH22A-1500D120221 represents that the hydraulic slewing drives adopts two levels planetary gearbox, and the modules of the gearbox are 2 and 2 respectively, the design code is A, the rated output torque is 1500N.m, distributor model is D120221.

4. Parameter description

- a. Total displacement represents the capacity of oil supply per revolution.
- b. Flow of oil supply indicates theoretical flow of pump when the volumetric efficiency is considered as 90%–94%.



回转主要技术性能参数

Main specification

型号 Model	额定输出扭矩 Rated torque (N.m)	额定输出转速 Rated Speed (r/min)	总排量 Total displacement (ml/r)	额定压力 System Rated pressure (MPa)	供油流量 Supply oil flow (L/min)	液压马达型号 Hydraulic motor	减速器型号 (传动比) Gearbox model (Ratio)
IYH22A-1500D120221	1500	0-12	2857.5	6	40	BM5-125D120221	C22 (i=22.86)
IYH22A-2000D120221	2000	0-12	2857.5	7			
IYH22A-2500D120221	2500	0-12	2857.5	9			
IYH22A-3000D120221	3000	0-12	2857.5	11			

回转输出齿轮外形图尺寸

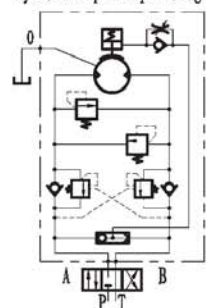
Gear drawing

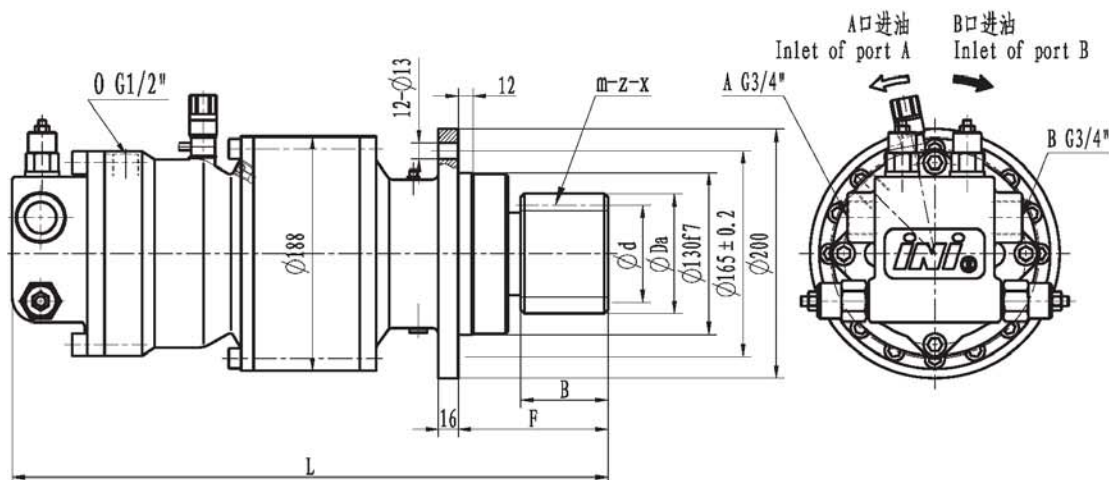
模数 Module (m)	齿数 Teeth (z)	变位系数 Shife coefficient (x)	分度圆 Reference diameter (ϕd)	齿顶圆 Tip diameter (ϕDa)	齿轮宽度 Facewidth (B)	F	L
6	17	0.5	102	118.8	60	105	489
8	11	0.5	88	111	88	133	517
8	17	0.5	136	158.4	88	133	517
10	13	0.5	130	160	90	135	519

- 备注：1、小齿轮的选用必须考虑输出扭矩的大小，以保住齿轮和传动轴的强度；
2、配流器的选用应参照系统允许供油量的大小，上述配流器和小齿轮仅为常用形式；
3、公司可根据客户提供各种规格形式的回转装置，详情请与本公司联系。

- Note: 1.The selection of pinion should refer to output torque to obtain the strength of drive elements;
2.The distribute can be supplied with a wide range of pressure and flow value,aboved is standard type;
3.The company can supply a wide range of slew drive according to customer requirement.Please contact us for the details.

液压原理图
Hydraulic principle diagram





回转主要技术性能参数

Main specification

型号 Model	额定输出扭矩 Rated torque (N.m)	额定输出转速 Rated Speed (r/min)	总排量 Total displacement (ml/r)	额定压力 System Rated pressure (MPa)	供油流量 Supply oil flow (L/min)	液压马达型号 Hydraulic motor	减速器型号 (传动比) Gearbox model (Ratio)
IYH22B-1500D120221	1500	0-12	2857.5	6	40	BM5-125D120221	C22 (i=22.86)
IYH22B-2000D120221	2000	0-12	2857.5	7			
IYH22B-2500D120221	2500	0-12	2857.5	9			
IYH22B-3000D120221	3000	0-12	2857.5	11			

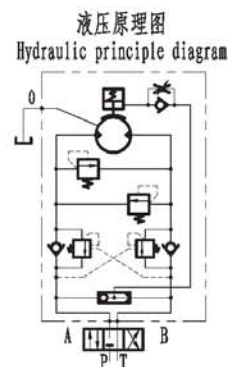
回转输出齿轮外形图尺寸

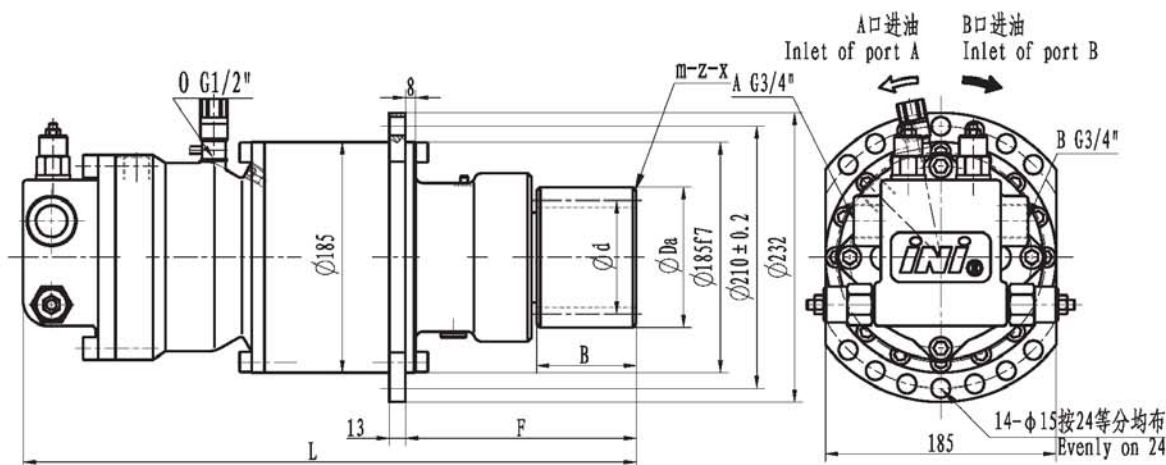
Gear drawing

模数 Module (m)	齿数 Teeth (z)	变位系数 Shife coefficient (x)	分度圆 Reference diameter (ϕd)	齿顶圆 Tip diameter (ϕDa)	齿轮宽度 Facewidth (B)	F	L
6	17	0.5	102	118.8	60	110	478
8	11	0.5	88	111	88	138	506
8	17	0.5	136	158.4	88	138	506
10	13	0.5	130	160	90	140	508

- 备注: 1、小齿轮的选用必须考虑输出扭矩的大小, 以保住齿轮和传动轴的强度;
2、配流器的选用应参照系统允许供油量的大小, 上述配流器和小齿轮仅为常用形式;
3、公司可根据客户提供各种规格形式的回转装置, 详情请与本公司联系。

- Note: 1. The selection of pinion should refer to output torque to obtain the strength of drive elements;
2. The distribute can be supplied with a wide range of pressure and flow value, aboved is standard type;
3. The company can supply a wide range of slew drive according to customer requirement. Please contact us for the details.





回转主要技术性能参数

Main specification

型号 Model	额定输出扭矩 Rated torque (N.m)	额定输出转速 Rated Speed (r/min)	总排量 Total displacement (ml/r)	额定压力 System Rated pressure (MPa)	供油流量 Supply oil flow (L/min)	液压马达型号 Hydraulic motor	减速器型号 (传动比) Gearbox model (Ratio)
IYH22C-1500D120221	1500	0-12	2857.5	6	40	BM5-125D120221	C22 (i=22.86)
IYH22C-2000D120221	2000	0-12	2857.5	7			
IYH22C-2500D120221	2500	0-12	2857.5	9			
IYH22C-3000D120221	3000	0-12	2857.5	11			

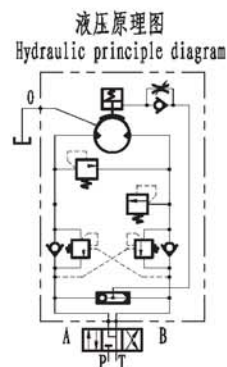
回转输出齿轮外形图尺寸

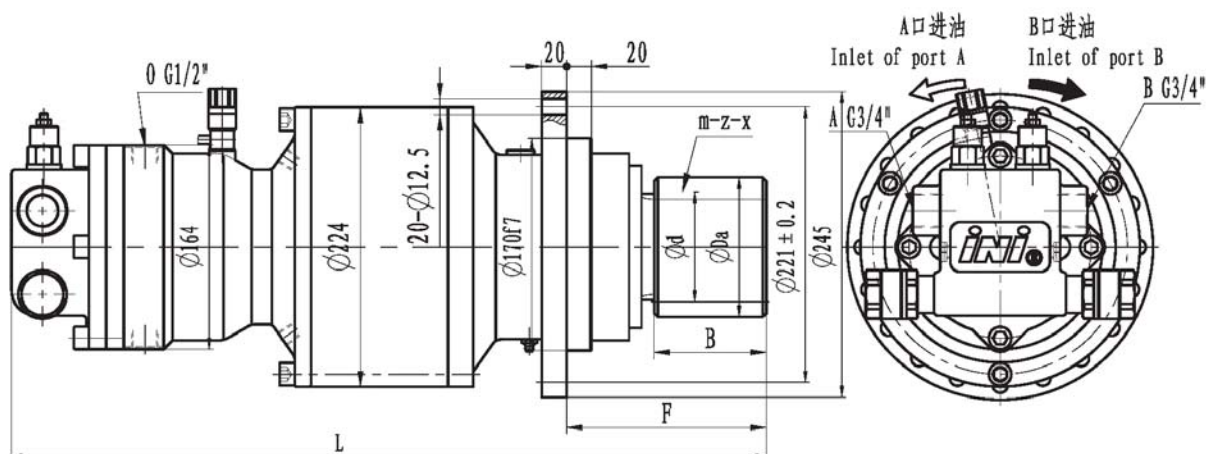
Gear drawing

模数 Module (m)	齿数 Teeth (z)	变位系数 Shife coefficient (x)	分度圆 Reference diameter (ϕd)	齿顶圆 Tip diameter (ϕDa)	齿轮宽度 Facewidth (B)	F	L
6	17	0.5	102	118.8	60	165	492
8	11	0.5	88	111	88	193	520
8	17	0.5	136	158.4	88	193	520
10	13	0.5	130	160	90	195	522

- 备注：1、小齿轮的选用必须考虑输出扭矩的大小，以保住齿轮和传动轴的强度；
2、配流器的选用应参照系统允许供油量的大小，上述配流器和小齿轮仅为常用形式；
3、公司可根据客户需要提供各种规格形式的回转装置，详情请与本公司联系。

- Note: 1. The selection of pinion should refer to output torque to obtain the strength of drive elements;
2. The distribute can be supplied with a wide range of pressure and flow value, aboved is standard type;
3. The company can supply a wide range of slew drive according to customer requirement. Please contact us for the details.





回转主要技术性能参数
Main specification

型号 Model	额定输出扭矩 Rated torque (N.m)	额定输出转速 Rated Speed (r/min)	总排量 Total displacement (ml/r)	额定压力 System Rated pressure (MPa)	供油流量 Supply oil flow (L/min)	液压马达型号 Hydraulic motor	减速器型号 (传动比) Gearbox model (Ratio)
IYH33A-4000D120221	4000	0-39	2325	14.5	100	BM5-125D120221	C33(i=18.6)
IYH33A-5000D120221	5000	0-30	2976	14.5	100	BM5-160D120221	
IYH33A-6000D120221	6000	0-20	3726	13.5	83	BM5-200D120221	
IYH33A-7000D120221	6600	0-15.5	3726	15	65	BM5-200D120221	

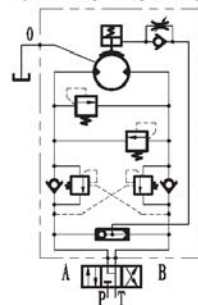
回转输出齿轮外形图尺寸
Gear drawing

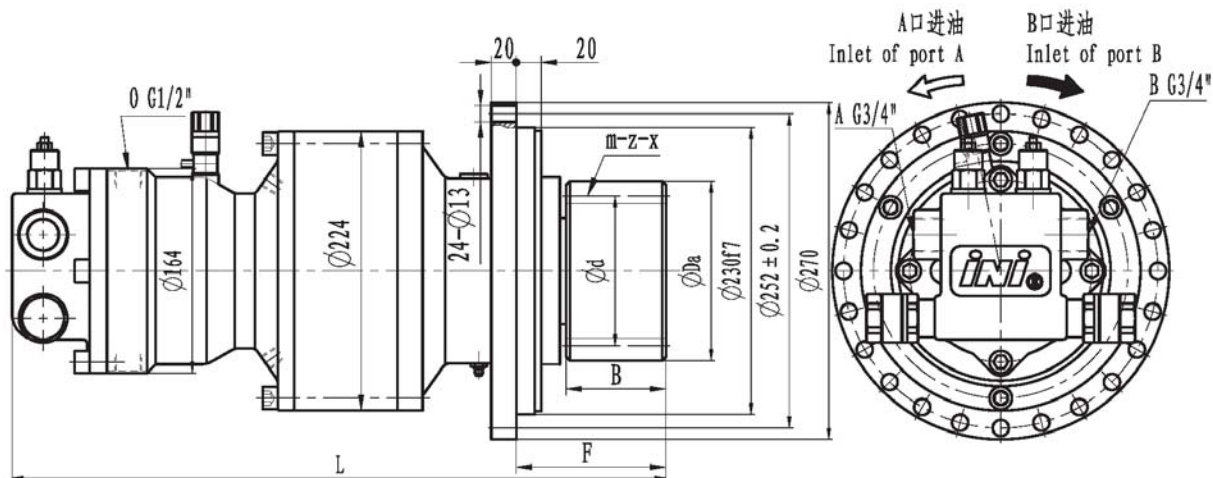
模数 Module (m)	齿数 Teeth (z)	变位系数 Shife coefficient (x)	分度圆 Reference diameter (ϕd)	齿顶圆 Tip diameter (ϕDa)	齿轮宽度 Facewidth (B)	F	L
8	11	0.5	88	112	90	160	605
8	15	0.5	120	144	90	160	605
10	12	0.5	120	149	90	160	605
10	13	0.5	130	159	90	160	605

备注: 1、小齿轮的选用必须考虑输出扭矩的大小,以保住齿轮和传动轴的强度;
2、配流器的选用应参照系统允许供油量的大小,上述配流器和小齿轮仅为常用形式;
3、公司可根据客户需要提供各种规格形式的回转装置,详情请与本公司联系。

Note: 1. The selection of pinion should refer to output torque to obtain the strength of drive elements;
2. The distribute can be supplied with a wide range of pressure and flow value, aboved is standard type;
3. The company can supply a wide range of slew drive according to customer requirement. Please contact us for the details.

液压原理图
Hydraulic principle diagram





回转主要技术性能参数

Main specification

型号 Model	额定输出扭矩 Rated torque (N.m)	额定输出转速 Rated Speed (r/min)	总排量 Total displacement (ml/r)	额定压力 System Rated pressure (MPa)	供油流量 Supply oil flow (L/min)	液压马达型号 Hydraulic motor	减速器型号 (传动比) Gearbox model (Ratio)
IYH33B-4000D120221	4000	0-39	2325	14.5	100	BM5-125D120221	C33(i=18.6)
IYH33B-5000D120221	5000	0-30	2976	14.5	100	BM5-160D120221	
IYH33B-6000D120221	6000	0-20	3726	13.5	83	BM5-200D120221	
IYH33B-7000D120221	6600	0-15.5	3726	15	65	BM5-200D120221	

回转输出齿轮外形图尺寸

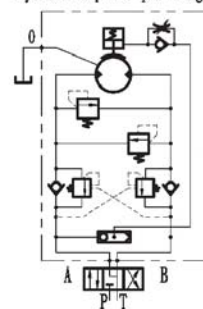
Gear drawing

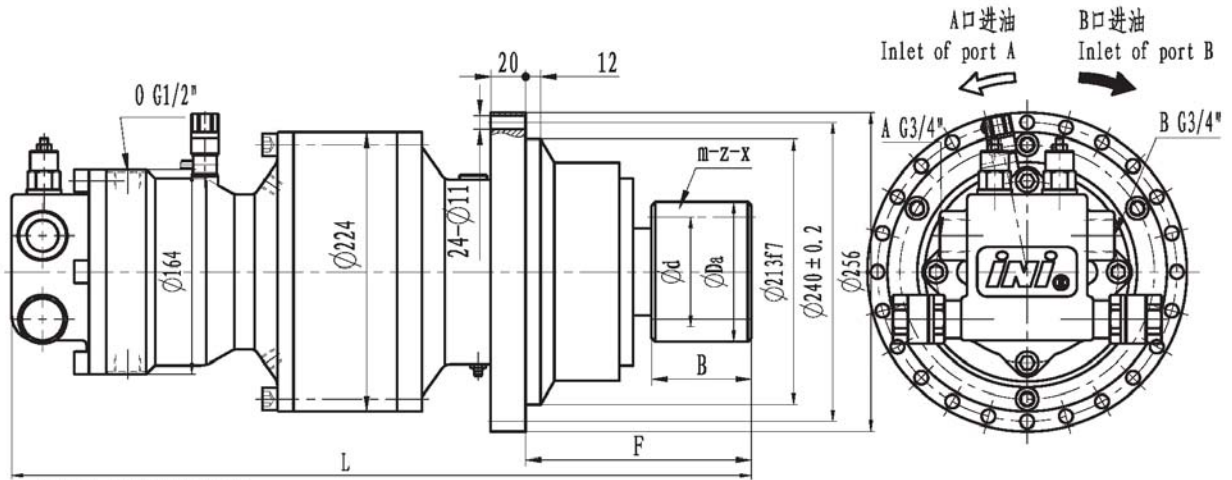
模数 Module (m)	齿数 Teeth (z)	变位系数 Shife coefficient (x)	分度圆 Reference diameter (Ød)	齿顶圆 Tip diameter (ØDa)	齿轮宽度 Facewidth (B)	F	L
8	11	0.5	88	112	90	160	605
8	15	0.5	120	144	90	160	605
10	12	0.5	120	149	90	160	605
10	13	0.5	130	159	90	160	605

- 备注: 1、小齿轮的选用必须考虑输出扭矩的大小,以保住齿轮和传动轴的强度;
2、配流器的选用应参照系统允许供油量的大小,上述配流器和小齿轮仅为常用形式;
3、公司可根据客户需要提供各种规格形式的回转装置,详情请与本公司联系。

- Note: 1.The selection of pinion should refer to output torque to obtain the strength of drive elements;
2.The distribute can be supplied with a wide range of pressure and flow value,aboved is standard type;
3.The company can supply a wide range of slew drive according to customer requirement.Please contact us for the details.

液压原理图
Hydraulic principle diagram





回转主要技术性能参数

Main specification

型号 Model	额定输出扭矩 Rated torque (N.m)	额定输出转速 Rated Speed (r/min)	总排量 Total displacement (ml/r)	额定压力 System Rated pressure (MPa)	供油流量 Supply oil flow (L/min)	液压马达型号 Hydraulic motor	减速器型号 (传动比) Gearbox model (Ratio)
IYH33C-4000D120221	4000	0-39	2325	14.5	100	BM5-125D120221	C33 (i=18.6)
IYH33C-5000D120221	5000	0-30	2976	14.5	100	BM5-160D120221	
IYH33C-6000D120221	6000	0-20	3726	13.5	83	BM5-200D120221	
IYH33C-7000D120221	6600	0-15.5	3726	15	65	BM5-200D120221	

回转输出齿轮外形图尺寸

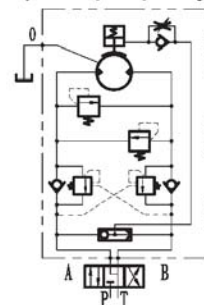
Gear drawing

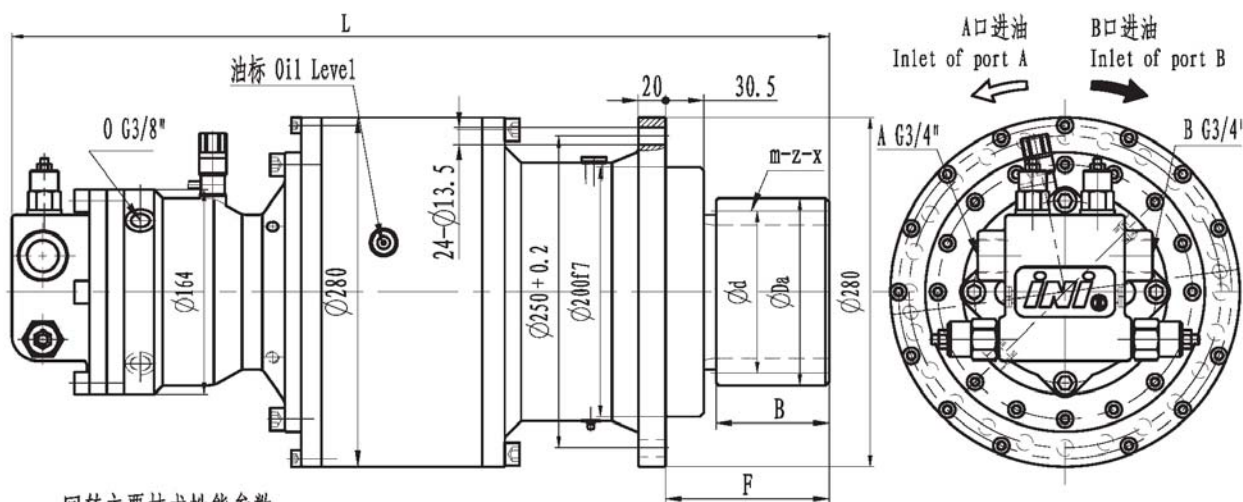
模数 Module (m)	齿数 Teeth (z)	变位系数 Shife coefficient (x)	分度圆 Reference diameter (Ød)	齿顶圆 Tip diameter (ØDa)	齿轮宽度 Facewidth (B)	F	L
8	11	0.5	88	112	90	160	605
8	15	0.5	120	144	90	160	605
10	12	0.5	120	149	90	160	605
10	13	0.5	130	159	90	160	605

- 备注: 1、小齿轮的选用必须考虑输出扭矩的大小, 以保住齿轮和传动轴的强度;
2、配流器的选用应参照系统允许供油量的大小, 上述配流器和小齿轮仅为常用形式;
3、公司可根据客户提供各种规格形式的回转装置, 详情请与本公司联系。

- Note: 1. The selection of pinion should refer to output torque to obtain the strength of drive elements;
2. The distribute can be supplied with a wide range of pressure and flow value, aboved is standard type;
3. The company can supply a wide range of slew drive according to customer requirement. Please contact us for the details.

液压原理图
Hydraulic principle diagram





回转主要技术性能参数
Main specification

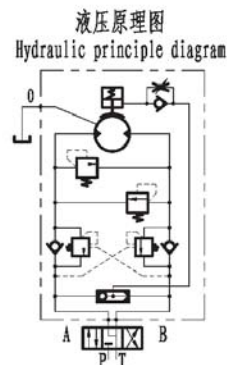
型号 Model	额定输出扭矩 Rated torque (N.m)	额定输出转速 Rated Speed (r/min)	总排量 Total displacement (ml/r)	额定压力 System Rated pressure (MPa)	供油流量 Supply oil flow (L/min)	液压马达型号 Hydraulic motor	减速器型号 (传动比) Gearbox model (Ratio)
IYH33D-7000D120221	7000	0-15	5296	12	87	BM5-160D120221	C33 (i=33.1)
IYH33D-9000D120221	9000	0-15	5296	16	87	BM5-160D120221	
IYH33D-10000D120221	10000	0-8	6620	13	60	BM5-200D120221	
IYH33D-12000D120221	12000	0-8	6620	15	60	BM5-200D120221	

回转输出齿轮外形图尺寸
Gear drawing

模数 Module (m)	齿数 Teeth (z)	变位系数 Shife coefficient (x)	分度圆 Reference diameter (ϕd)	齿顶圆 Tip diameter (ϕDa)	齿轮宽度 Facewidth (B)	F	L
10	13	0.1	130	150	90	131	655
10	15	0.5	150	180	100	141	665
12	13	0.5	156	192	100	141	665
12	14	0.5	168	204	100	141	665

- 备注: 1、小齿轮的选用必须考虑输出扭矩的大小,以保住齿轮和传动轴的强度;
2、配流器的选用应参照系统允许供油量的大小,上述配流器和小齿轮仅为常用形式;
3、公司可根据客户需要提供各种规格形式的回转装置,详情请与本公司联系。

- Note: 1.The selection of pinion should refer to output torque to obtain the strength of drive elements;
2.The distribute can be supplied with a wide range of pressure and flow value,aboved is standard type;
3.The company can supply a wide range of slew drive according to customer requirement.Please contact us for the details.

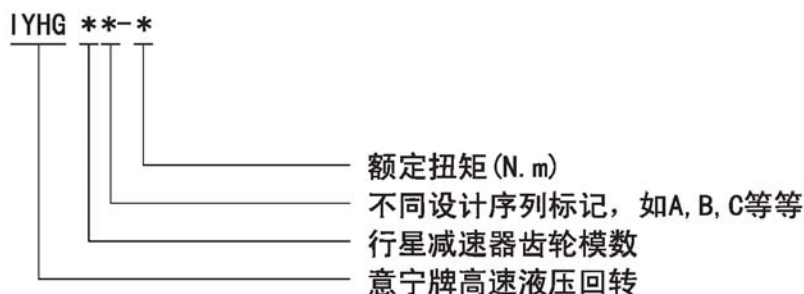


IYHG 系列液压回转

1. 概述

IYHG系列液压回转装置是由本公司自主研发，由变量轴向柱塞马达、多级行星减速器、过载保护阀组等组成。它的特点是结构紧凑、体积小、重量轻、工作压力高、工作稳定性好、外形美观、通过外控油口可以实现高低速切换，其输出齿轮通过与齿条啮合驱动动力头前进或后退。该产品主要用于驱动水平定向钻推拉装置，产品不但畅销徐工、德威土行孙、北京威猛等国内知名企业，并已出口到美国、奥地利、俄罗斯、澳大利亚、荷兰、印尼、韩国等国家。

2. 型号说明



3. 型号举例

IYHG33A-3000表示行星减速器一级、二级齿轮模数分别为3、3，设计序列为A，回转额定扭矩为3000N. m。

4. 参数说明

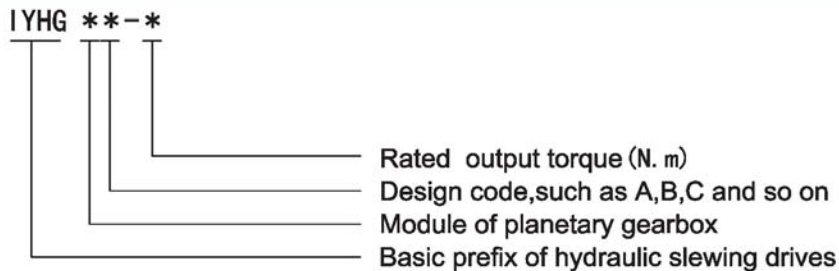
- 总排量是指回转装置每转一转所需供给的理论供油流量，单位为 (ml/r)。
- 供油流量是指泵的理论供油流量，计算中应考虑系统容积效率 (L/min)。

IYHG series hydraulic slewing drives

1. Brief introduction

IYHG series hydraulic slewing drives are self-developed with independent intellectual property rights. And they are mainly consist of variable displacement axial piston motor, multi-gear planetary gearbox, and relief valve block. It features compact design, light weight, high work pressure, good stability, and you can get small displacement when give oil flow to the control port "X" and the output gear of the drives mesh with the rack pinion make the power head back and forth. IYHG series hydraulic slewing drives have been well sold in China company such as XCMG, DW/TXS CONSTRUCTION and also have been exported to the USA, Japan, Russia, Austria, Australia, Nethelands, Indonsia, Korea and other areas in the world.

2. Model options



3. Options example

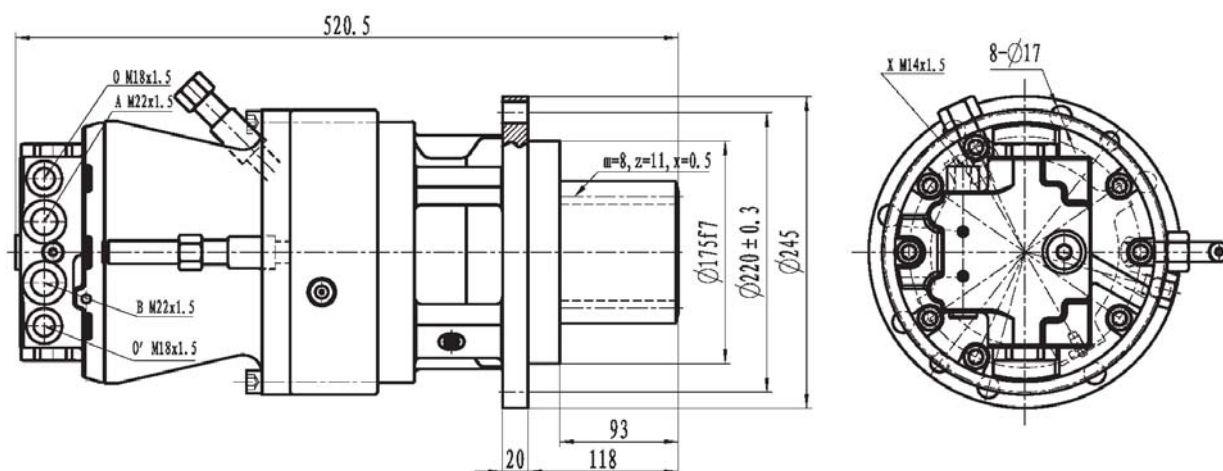
IYHG33A-3000 represents that the hydraulic slewing drives adopts two levels planetary gearbox, and the modules of the gearbox are 3 and 3 respectively, the design mode is A, the rated output torque is 1500N.m.

4. Parameter description

- Total displacement represents the capacity of oil supply per revolution.
- Flow of oil supply indicates theoretical flow of pump when the volumetric efficiency is considered as 90%–94%.

外形尺寸

Dimension

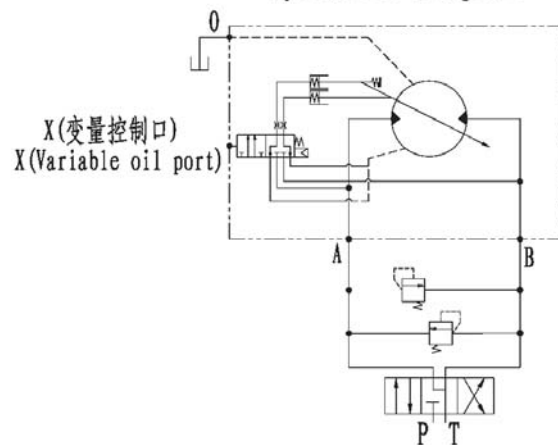


技术参数

Technical Data

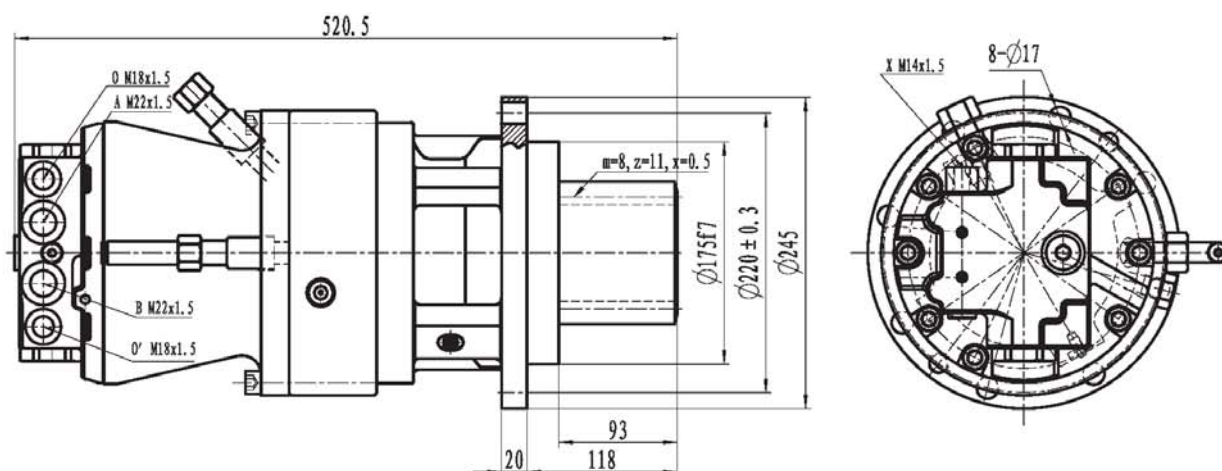
额定输出扭矩 Output Torque (N·m)	转速 Speed (r/min)	传动比 Ratio	额定压力 Rated Pressure (MPa)	总排量 Displacement (ml/r)	液压马达排量 Motor Displacement (ml/r)	总重量 Weight (Kg)	适用机型 Machine type
3000/1050	26/75	20.06	25	1041.11 366.5	51.9 18.27	70	非开挖钻机 Drilling rig

液压原理图
Hydraulic diagram



外形尺寸

Dimension

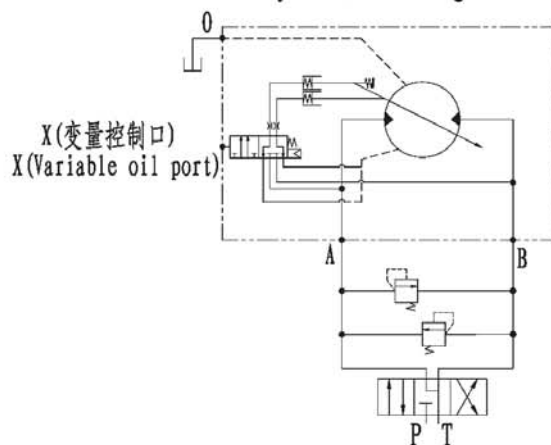


技术参数

Technical Data

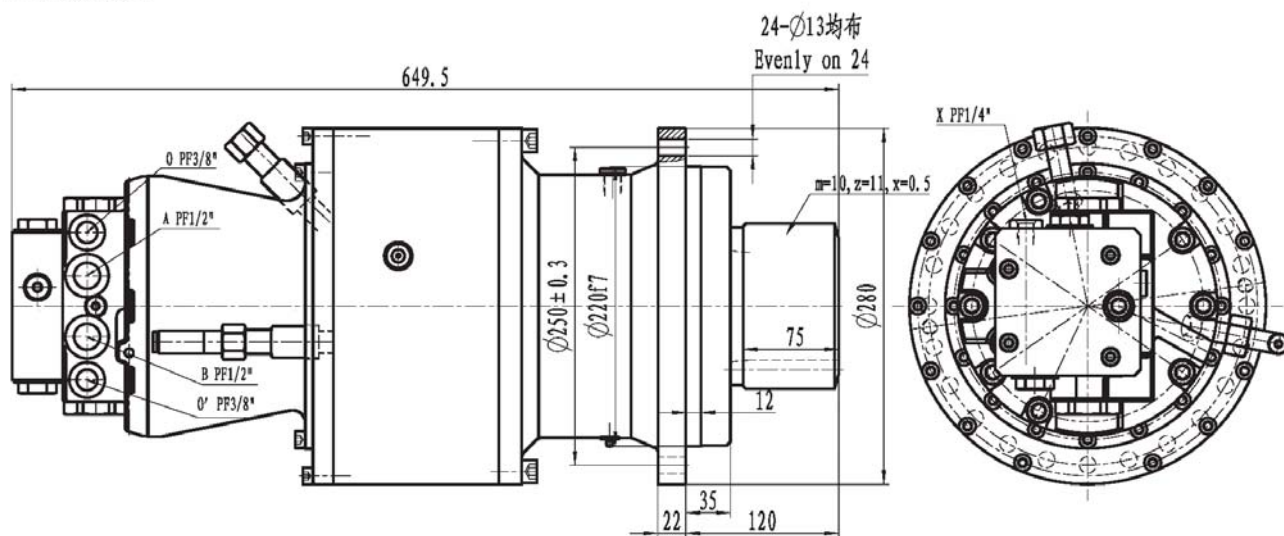
额定输出扭矩 Output Torque (N · m)	转速 Speed (r/min)	传动比 Ratio	额定压力 Rated Pressure (MPa)	总排量 Displacement (ml/r)	液压马达排量 Motor Displacement (ml/r)	总重量 Weight (Kg)	适用机型 Machine type
4000/1250	26/75	26.44	25	1372.24 483.06	51.9 18.27	70	非开挖钻机 Drilling rig

液压原理图 Hydraulic diagram



外形尺寸

Dimension

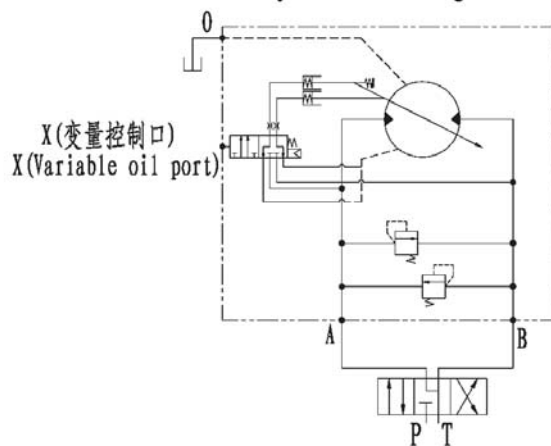


技术参数

Technical Data

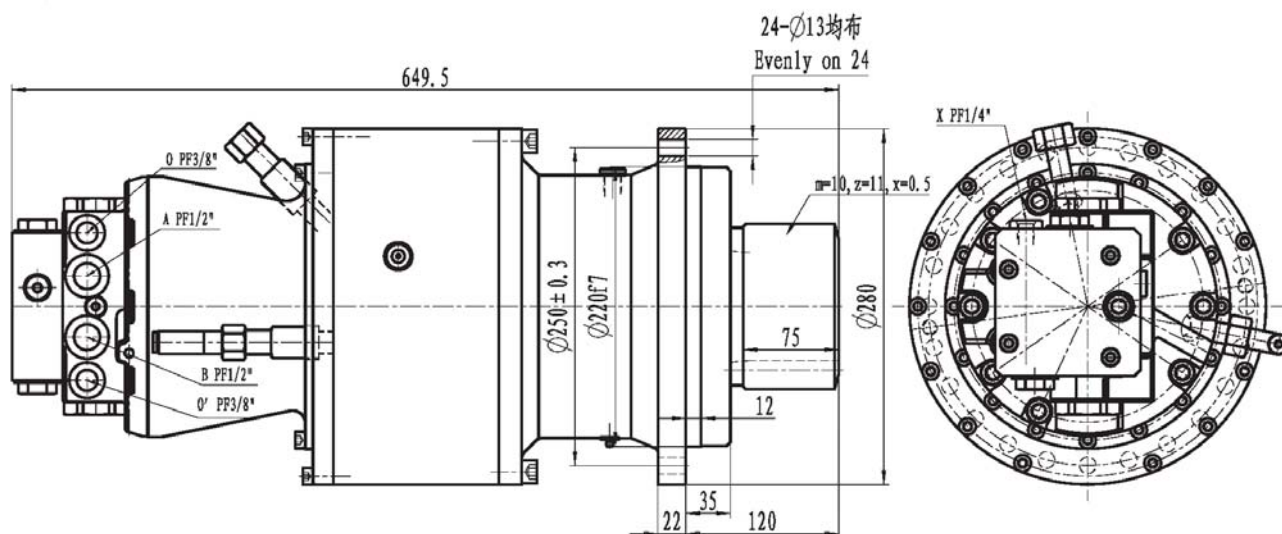
额定输出扭矩 Output Torque (N·m)	转速 Speed (r/min)	传动比 Ratio	额定压力 Rated Pressure (MPa)	总排量 Displacement (ml/r)	液压马达排量 Motor Displacement (ml/r)	总重量 Weight (Kg)	适用机型 Machine type
5667/1500	34/88	33.1	27	1717.89 756.997	51.9 22.87	145	非开挖钻机 Drilling rig

液压原理图
Hydraulic diagram



外形尺寸

Dimension

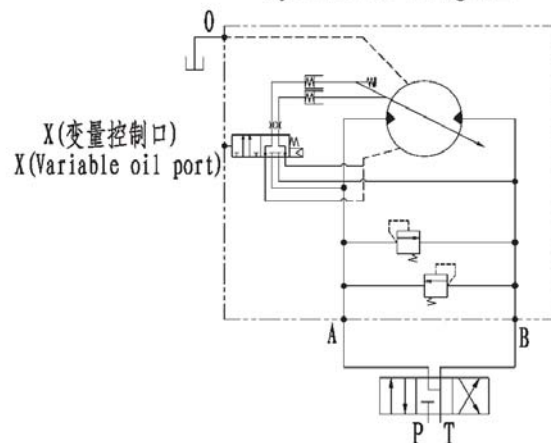


技术参数

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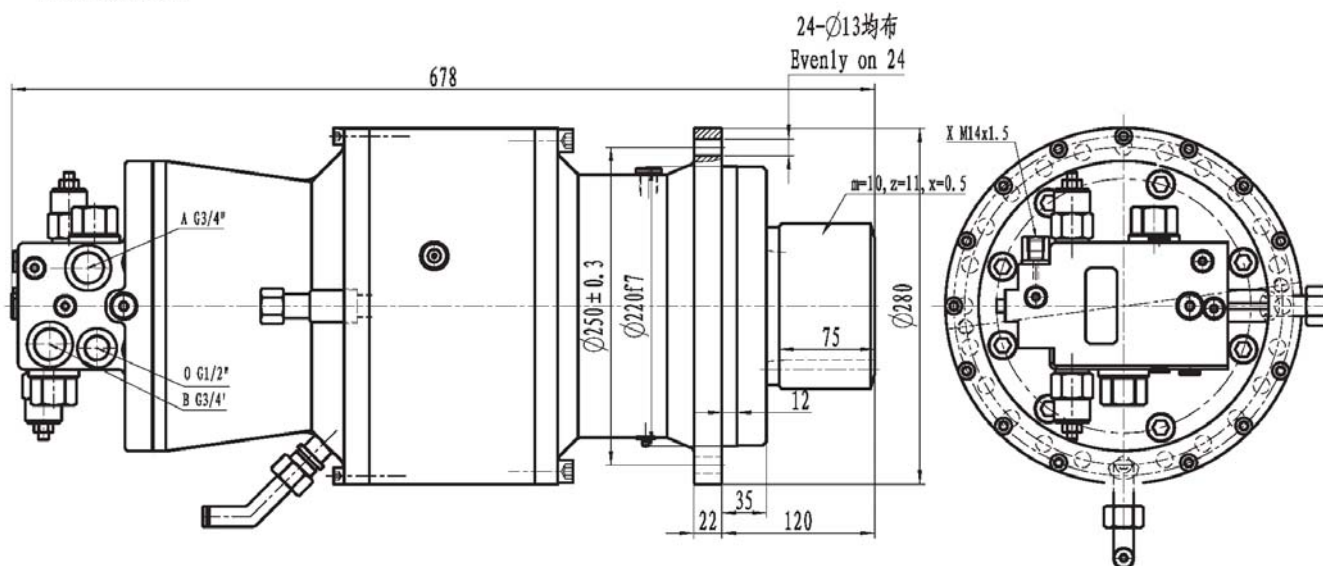
额定输出扭矩 Output Torque (N · m)	转速 Speed (r/min)	传动比 Ratio	额定压力 Rated Pressure (MPa)	总排量 Displacement (ml/r)	液压马达排量 Motor Displacement (ml/r)	总重量 Weight (Kg)	适用机型 Machine type
7129/2800	31/70	33.1	27	2244 989	51.9 22.87	145	非开挖钻机 Drilling rig

液压原理图 Hydraulic diagram



外形尺寸

Dimension

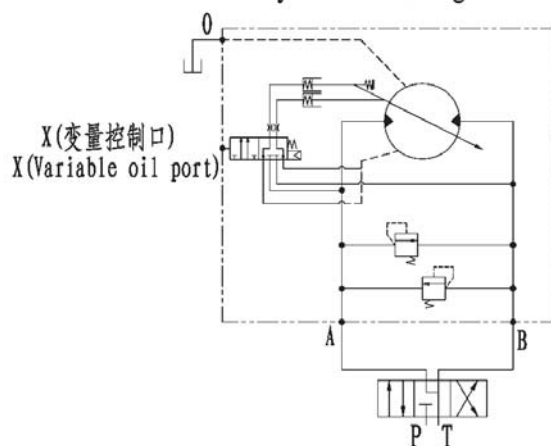


技术参数

Technical Data

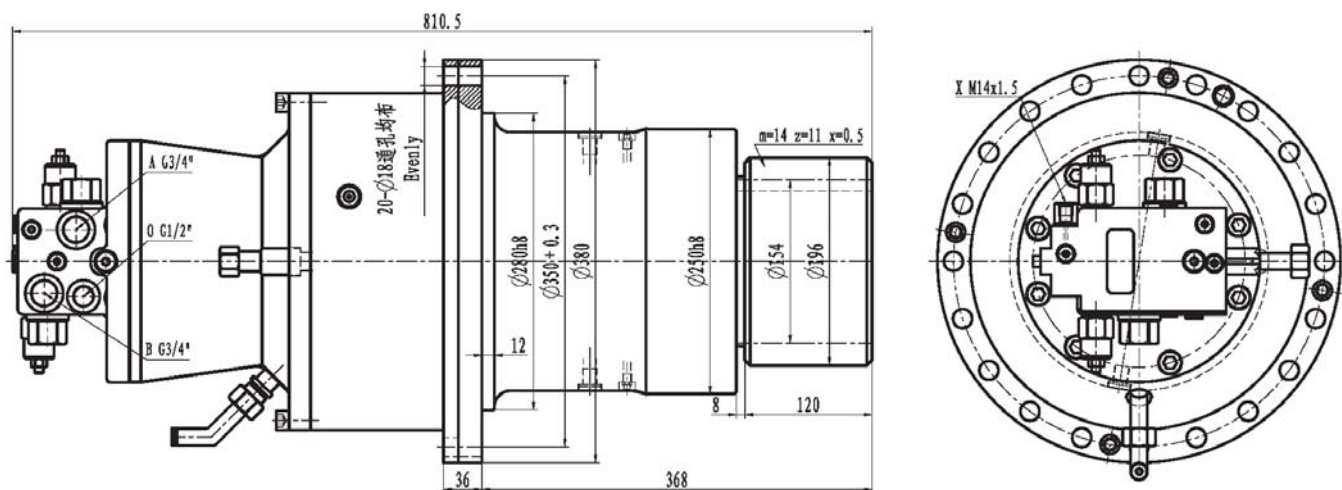
额定输出扭矩 Output Torque (N · m)	转速 Speed (r/min)	传动比 Ratio	额定压力 Rated Pressure (MPa)	总排量 Displacement (ml/r)	液压马达排量 Motor Displacement (ml/r)	总重量 Weight (Kg)	适用机型 Machine type
9000/3850	40/90.5	33.1	27	2648 1158.5	80 35	160	非开挖钻机 Drilling rig

液压原理图 Hydraulic diagram



外形尺寸

Dimension

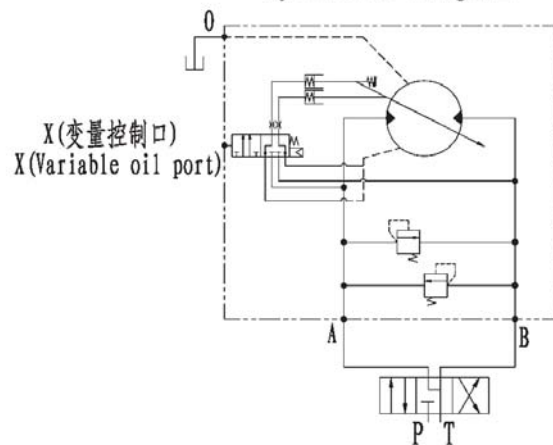


技术参数

Technical Data

额定输出扭矩 Output Torque (N · m)	转速 Speed (r/min)	传动比 Ratio	额定压力 Rated Pressure (MPa)	总排量 Displacement (ml/r)	液压马达排量 Motor Displacement (ml/r)	总重量 Weight (Kg)	适用机型 Machine type
12000/4000	35/70	38.6	28	3370 1664	87.3 43.1	220	非开挖钻机 Drilling rig

液压原理图 Hydraulic diagram



IWYHG 系列高速液压回转装置

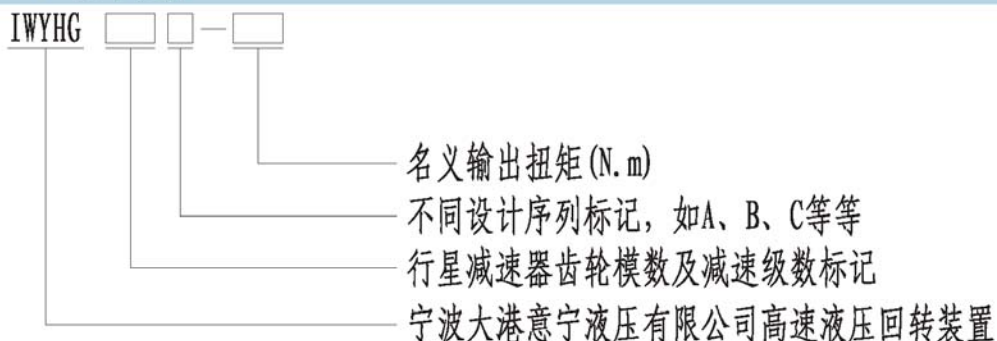
1、概述

IWYHG系列挖掘机用液压回转装置由具有制动功能的阀组、液压马达、制动器、多级行星减速器组成。它的特点是工作压力高、工作稳定，可有效吸收液压及外载荷冲击，其输出齿轮轴，直接带动回转平台的齿圈，整机尺寸紧凑，重量轻，并使整机的结构紧凑外形美观。节省空间，安装与保养方便。

因而该产品已广泛用于工程车辆、履带挖掘机、高空作业车、轨道车辆、等设备的回转平台的驱动装置中，还可用于非开控钻机齿轮齿条驱动装置。产品不但畅销全国，并出口到新加坡、印度、韩国、荷兰等国家及地区。

所列出的产品型号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它安装尺寸及不同传动比的产品。如有需要，请与本公司技术或销售部联系。

2、型号说明:



3、型号说明举例:

IWYHG 33A - 2800表示行星减速器为二级减速，齿轮模数第一级3mm，第二级为3mm，设计序列为A，名义输出扭矩为2800N.m。

4、名词解释:

(1) 总排量 (ml/r): 液压传动装置每转一周所需要的油量。

$$\text{总排量 (ml/r)} = \text{液压马达排量 (ml/r)} \times \text{减速比}$$

$$(2) \text{ 泵理论供油流量 (L/min)} = \frac{\text{总排量 (ml/r)} \times \text{液压传动装置输出轴转速 (r/min)}}{1000}$$

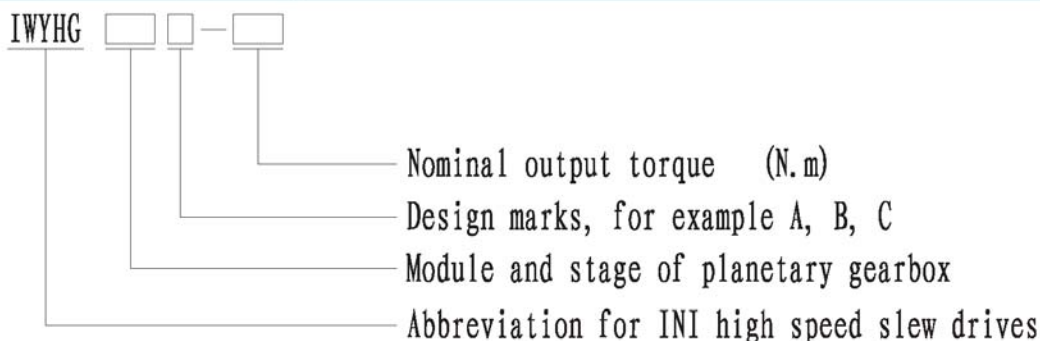
IWYHG high speed hydraulic slewing drives series

1. brief introduction :

IWYHG high speed hydraulic slewing drives series are designed for excavators. It consists of valve block with brake function, hydraulic motor, brake, multi-stage planetary gearbox. It features high working pressure, good stability, compact design, light weight, easy installation and maintenance. It can bear hydraulic and external load impact. The output gear shaft can directly drive the ring gear on the slewing platform. With above advantages, these products are widely used in slewing platform drives in construction vehicles, crawler excavators, aerial platforms, tracked vehicles and so on. They are not only popular in Chinese market, but also exported to Singapore, India, Korea, Netherlands and other countries in the world.

The models listed in this catalogue are already put into production. We can also produce different products according to different installation dimension and reduction ratio requested by customers. Please contact our technical department or sales department for more information if need.

2. Model selection:



3. Example of model no:

IWYHG 33A -2800 means the slewing drive has two-stage planetary gearboxes, module of first stage gearbox is 3mm, module of second stage gearbox is 3mm, the design mark is A, and the nominal output torque is 2800N.m.

4. Definition

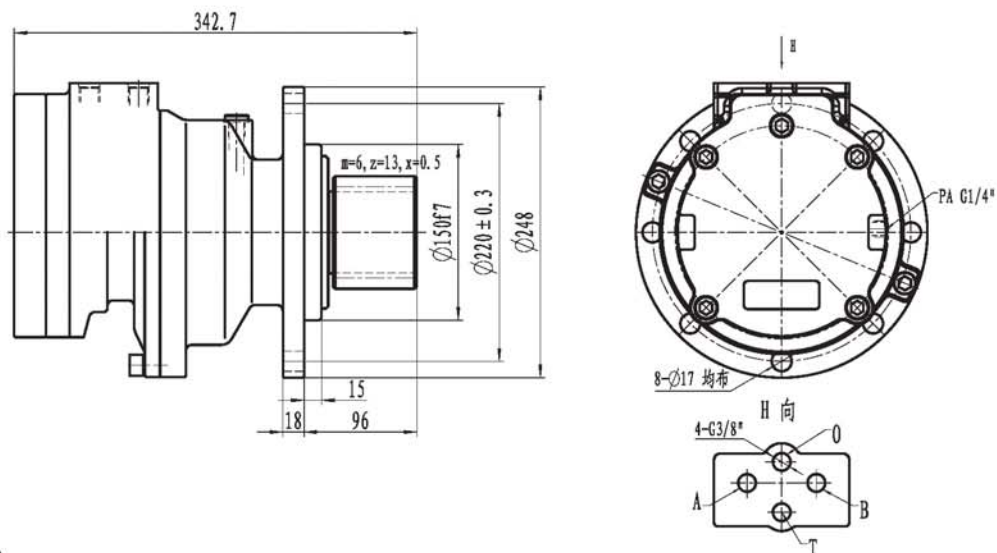
- 1) Total displacement (ml/r) is the amount of oil needed for one rotation of hydraulic transmission drive.

Total displacement (ml/r) = displacement of hydraulic motor (ml/r) * reduction ratio

- 2) Theoretical oil flow of the pump (l/min) = total displacement (ml/r) * output shaft speed of hydraulic transmission drive (r/min) / 1000

外形尺寸

Dimension

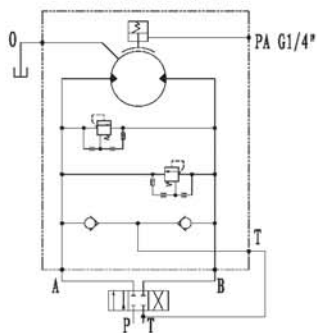


技术参数

Technical Data

额定输出扭矩 Output Torque (N · m)	转速 Speed (r/min)	传动比 Ratio	额定压力 Rated Pressure (MPa)	总排量 Displacement (ml/r)	液压马达排量 Motor Displacement (ml/r)	总重量 Weight (Kg)	适用机重 Excavator type (Ton)
1000	0-100	30.33	21.5	401.93	20.306	50	3.5

液压原理图
Hydraulic diagram



此回转装置的控制阀中位机能必须为“0”型；

The neutral position of the control valve must be “0” type;

马达补油口T要与控制阀T口连接；

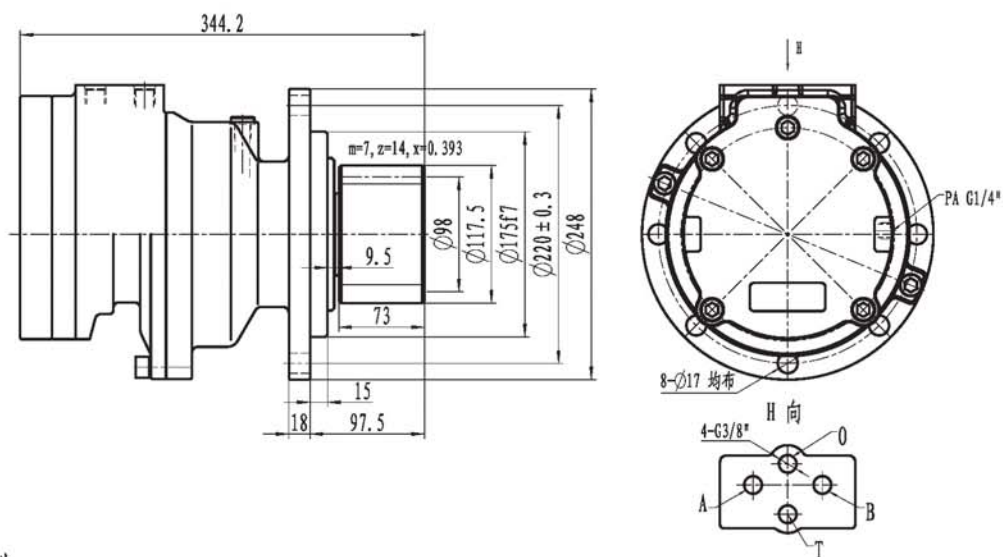
The oil boost port T of hydraulic motor should be connected with T port of control valve;

制动器最大耐压5MPa。

Maximum pressure of the brake is 5MPa.

外形尺寸

Dimension

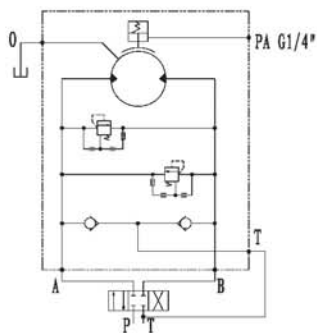


技术参数

Technical Data

额定输出扭矩 Output Torque (N·m)	转速 Speed (r/min)	传动比 Ratio	额定压力 Rated Pressure (MPa)	总排量 Displacement (ml/r)	液压马达排量 Motor Displacement (ml/r)	总重量 Weight (Kg)	适用机重 Excavator type (Ton)
1400	48-91	30.33	21.5	564	18.6	50	5

液压原理图
Hydraulic diagram



此回转装置的控制阀中位机能必须为“0”型；

The neutral position of the control valve must be “0” type;

马达补油口T要与控制阀T口连接；

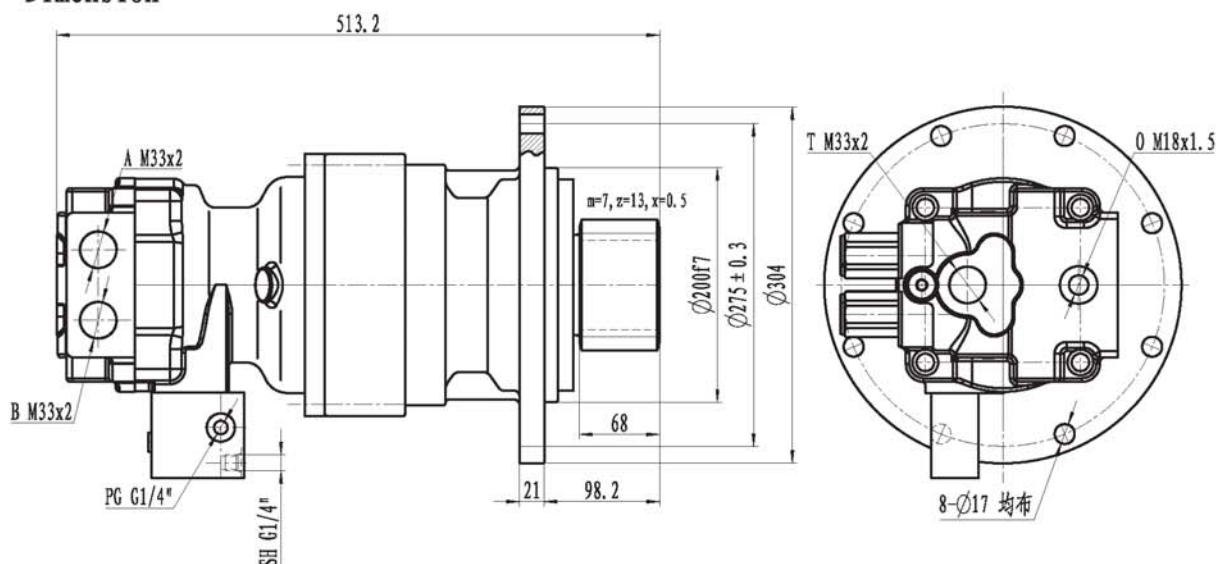
The oil boost port T of hydraulic motor should be connected with T port of control valve;

制动器最大耐压5MPa。

Maximum pressure of the brake is 5MPa.

外形尺寸

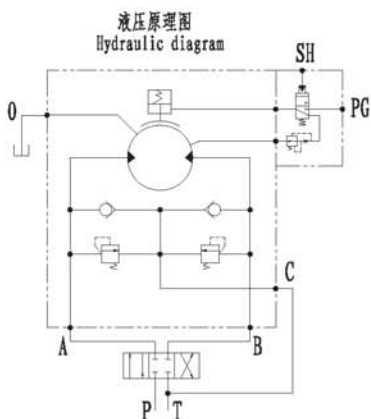
Dimension



技术参数

Technical Data

额定输出扭矩 Output Torque (N·m)	转速 Speed (r/min)	传动比 Ratio	额定压力 Rated Pressure (MPa)	总排量 Displacement (ml/r)	液压马达排量 Motor Displacement (ml/r)	总重量 Weight (Kg)	适用机重 Excavator type (Ton)
2600	0-80	19.46	20	1028.87	52.871	70	7-8



此回转装置的控制阀中位机能必须为“0”型；

The neutral position of the control valve must be “0” type;

马达补油口T要与控制阀T口连接；

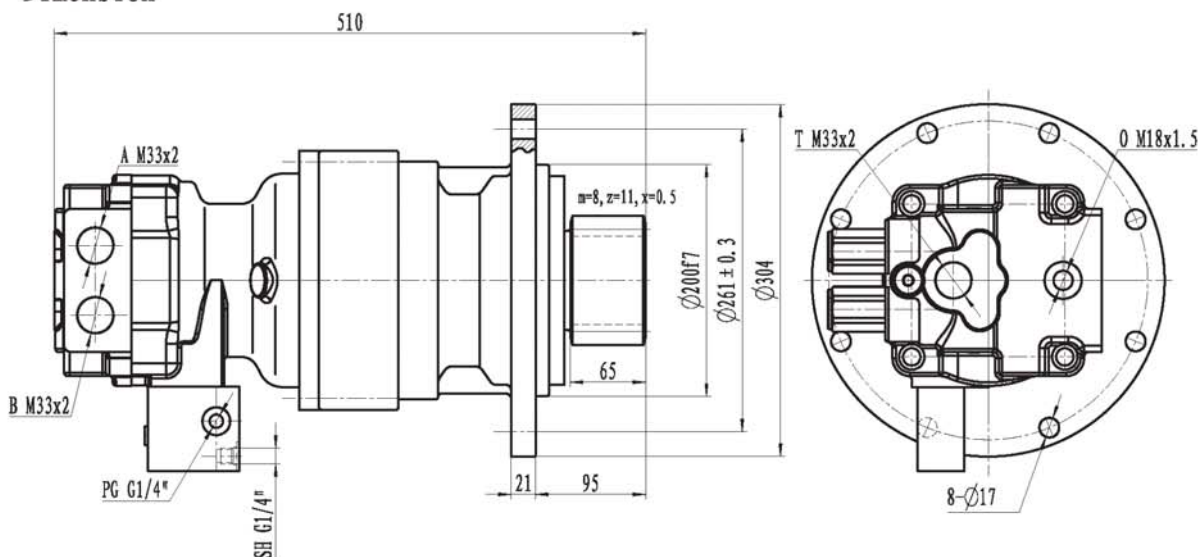
The oil boost port T of hydraulic motor should be connected with T port of control valve;

制动器最大耐压5MPa。

Maximum pressure of the brake is 5MPa.

外形尺寸

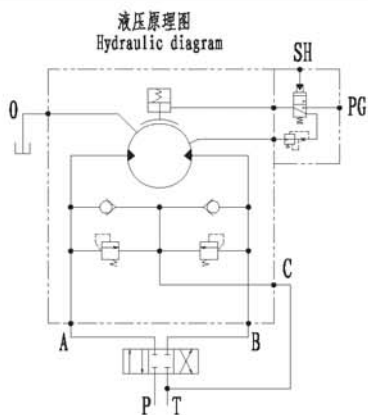
Dimension



技术参数

Technical Data

额定输出扭矩 Output Torque (N · m)	转速 Speed (r/min)	传动比 Ratio	额定压力 Rated Pressure (MPa)	总排量 Displacement (ml/r)	液压马达排量 Motor Displacement (ml/r)	总重量 Weight (Kg)	适用机重 Excavator type (Ton)
2600	0-80	19.46	20	1028.87	52.871	70	8



此回转装置的控制阀中位机能必须为“0”型;

The neutral position of the control valve must be “0” type;

马达补油口T要与控制阀T口连接;

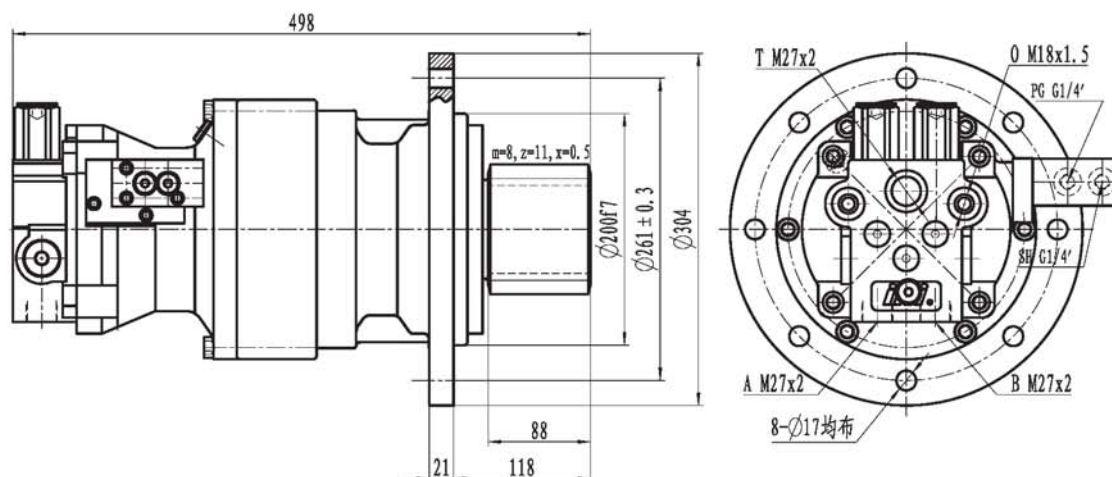
The oil boost port T of hydraulic motor should be connected with T port of control valve;

制动器最大耐压5MPa。

Maximum pressure of the brake is 5MPa.

外形尺寸

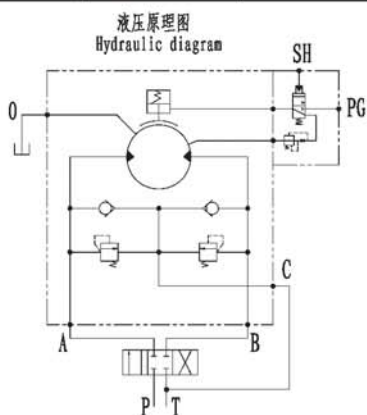
Dimension



技术参数

Technical Data

额定输出扭矩 Output Torque (N · m)	转速 Speed (r/min)	传动比 Ratio	额定压力 Rated Pressure (MPa)	总排量 Displacement (ml/r)	液压马达排量 Motor Displacement (ml/r)	总重量 Weight (Kg)	适用机重 Excavator type (Ton)
1900	0-102	19.46	22	701.436	36.045	70	7-8T轮式



此回转装置的控制阀中位机能必须为“0”型；

The neutral position of the control valve must be “0” type;

马达补油口T要与控制阀T口连接；

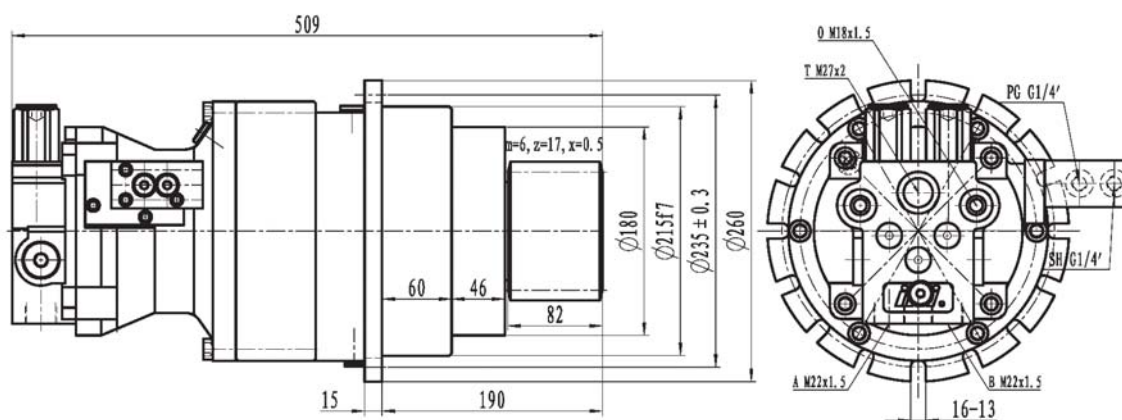
The oil boost port T of hydraulic motor should be connected with T port of control valve;

制动器最大耐压5MPa。

Maximum pressure of the brake is 5MPa.

外形尺寸

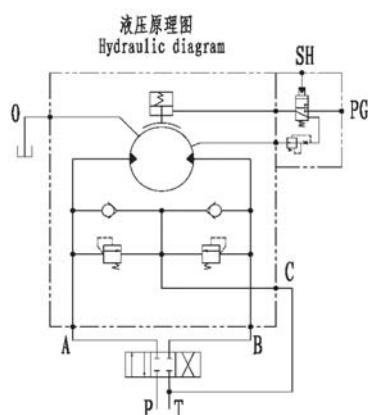
Dimension



技术参数

Technical Data

额定输出扭矩 Output Torque (N·m)	转速 Speed (r/min)	传动比 Ratio	额定压力 Rated Pressure (MPa)	总排量 Displacement (ml/r)	液压马达排量 Motor Displacement (ml/r)	总重量 Weight (Kg)	适用机重 Excavator type (Ton)
1300	0-53.2	19.46	14	856.372	44	70	6-8T轮式



此回转装置的控制阀中位机能必须为“0”型;

The neutral position of the control valve must be “0” type;

马达补油口T要与控制阀T口连接;

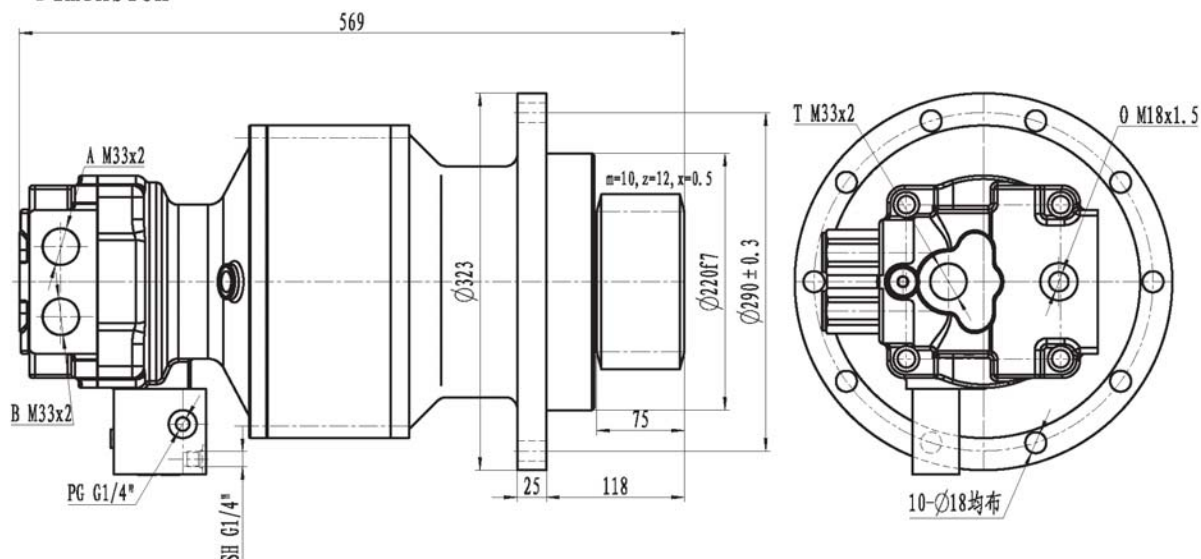
The oil boost port T of hydraulic motor should be connected with T port of control valve;

制动器最大耐压5MPa.

Maximum pressure of the brake is 5MPa.

外形尺寸

Dimension

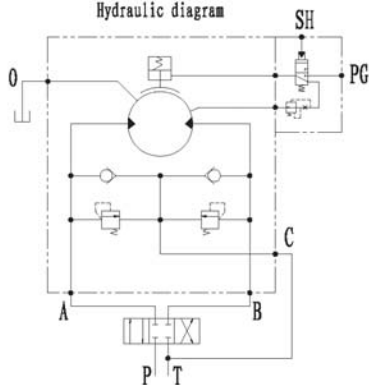


技术参数

Technical Data

额定输出扭矩 Output Torque (N·m)	转速 Speed (r/min)	传动比 Ratio	额定压力 Rated Pressure (MPa)	总排量 Displacement (ml/r)	液压马达排量 Motor Displacement (ml/r)	总重量 Weight (Kg)	适用机重 Excavator type (Ton)
3500	0-80	18.4	23	1192.9	64.832	90	12-14

液压原理图
Hydraulic diagram



此回转装置的控制阀中位机能必须为“0”型；

The neutral position of the control valve must be “0” type;

马达补油口T要与控制阀T口连接；

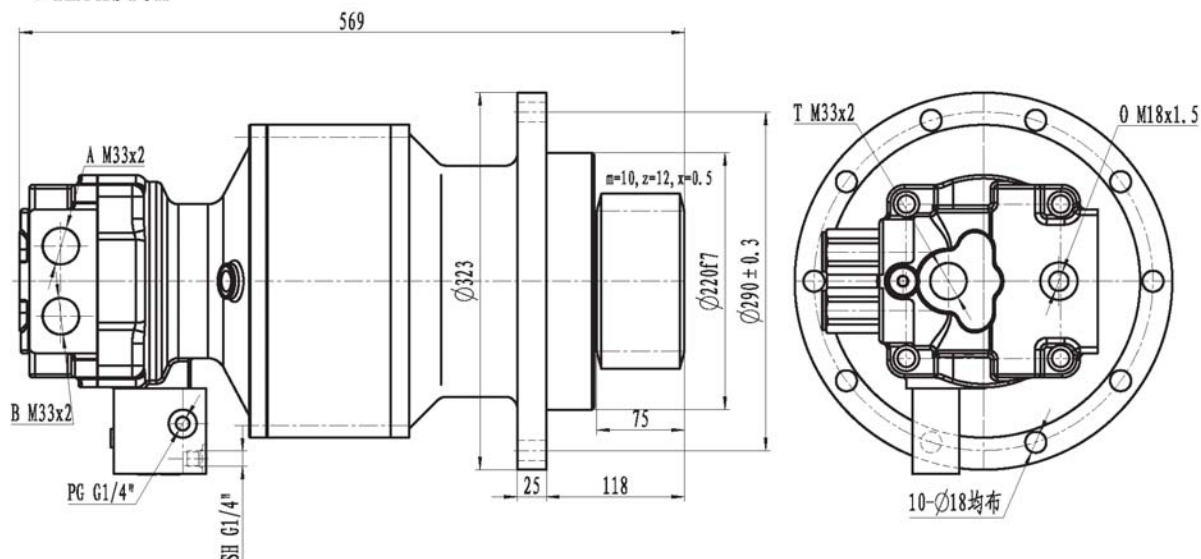
The oil boost port T of hydraulic motor should be connected with T port of control valve;

制动器最大耐压5MPa。

Maximum pressure of the brake is 5MPa.

外形尺寸

Dimension

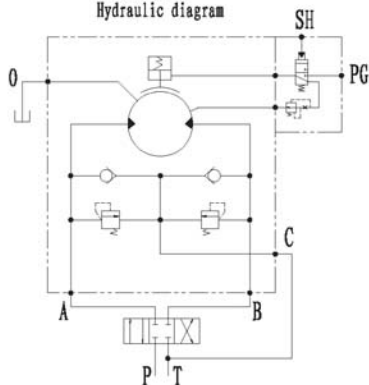


技术参数

Technical Data

额定输出扭矩 Output Torque (N·m)	转速 Speed (r/min)	传动比 Ratio	额定压力 Rated Pressure (MPa)	总排量 Displacement (ml/r)	液压马达排量 Motor Displacement (ml/r)	总重量 Weight (Kg)	适用机重 Excavator type (Ton)
4000	0-100	18.4	26	1192.9	64.832	90	14-16

液压原理图
Hydraulic diagram



此回转装置的控制阀中位机能必须为“0”型;

The neutral position of the control valve must be “0” type;

马达补油口T要与控制阀T口连接;

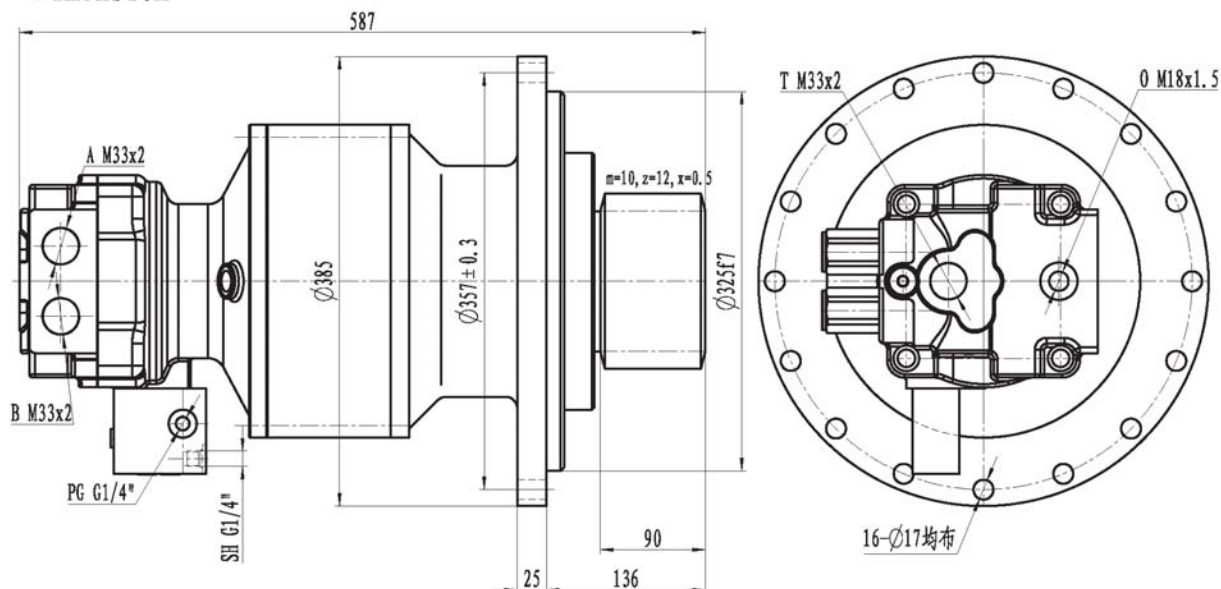
The oil boost port T of hydraulic motor should be connected with T port of control valve;

制动器最大耐压5MPa.

Maximum pressure of the brake is 5MPa.

外形尺寸

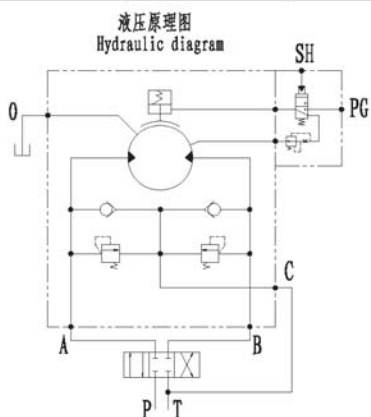
Dimension



技术参数

Technical Data

额定输出扭矩 Output Torque (N·m)	转速 Speed (r/min)	传动比 Ratio	额定压力 Rated Pressure (MPa)	总排量 Displacement (ml/r)	液压马达排量 Motor Displacement (ml/r)	总重量 Weight (Kg)	适用机重 Excavator type (Ton)
4000	0-100	18.4	26	1192.9	64.832	90	14-16



此回转装置的控制阀中位机能必须为“0”型;

The neutral position of the control valve must be “0” type;

马达补油口T要与控制阀T口连接;

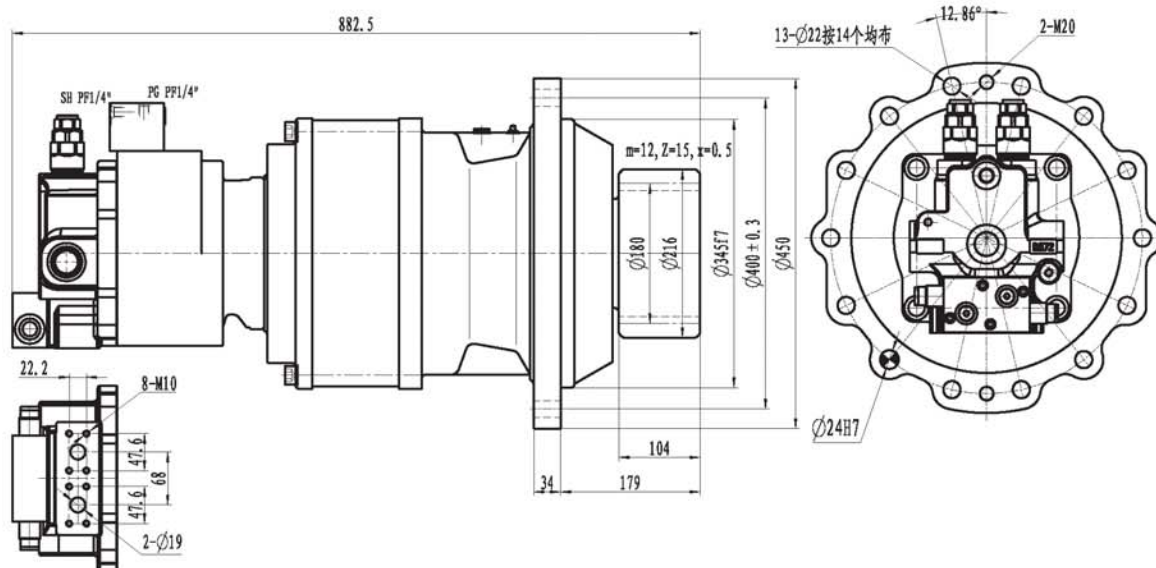
The oil boost port T of hydraulic motor should be connected with T port of control valve;

制动器最大耐压5MPa.

Maximum pressure of the brake is 5MPa.

外形尺寸

Dimension

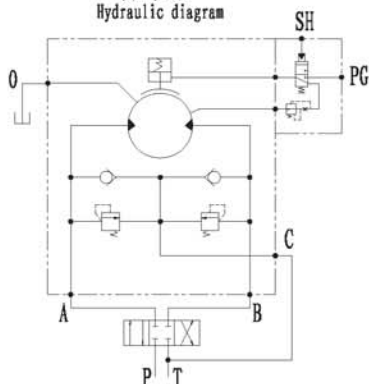


技术参数

Technical Data

额定输出扭矩 Output Torque (N · m)	转速 Speed (r/min)	传动比 Ratio	额定压力 Rated Pressure (MPa)	总排量 Displacement (ml/r)	液压马达排量 Motor Displacement (ml/r)	总重量 Weight (Kg)	适用机重 Excavator type (Ton)
12000	0-67	20.036	28	3438.13	171.6	125	20-25

液压原理图
Hydraulic diagram



此回转装置的控制阀中位机能必须为“O”型:

The neutral position of the control valve must be "0" type;

马达补油口T要与控制阀T口连接:

The oil boost port T of hydraulic motor should be connected with T port of control valve;

制动器最大耐压5MPa。

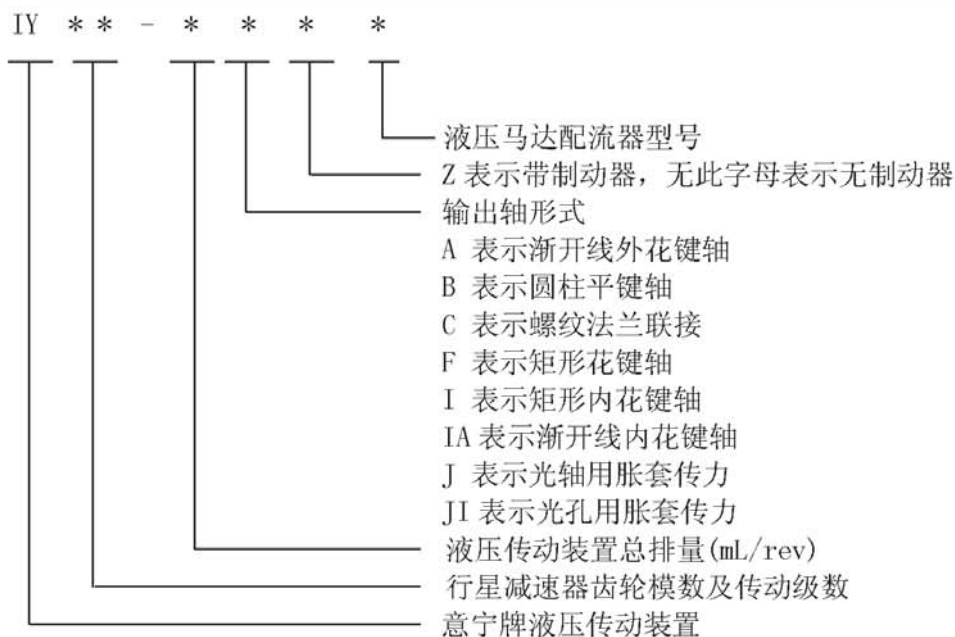
Maximum pressure of the brake is 5MPa.

IY 系列液压传动装置

1、概述

IY系列液压传动装置由液压马达、行星减速器、片式制动器及各种功能配流器组成。它具有径向尺寸小、重量轻、扭矩大，输出轴可承受较大的径向与轴向外力，起动效率高(0.87~0.9)，优越的低速稳定性，传动效率高，低噪音，经济性好等特点。因而广泛适用于建筑工程、铁路、公路、船舶、石油、煤矿、冶金等各种机械中。根据不同需要，用户可选配制动器及集成各种功能阀件的配流器。

2、型号说明



3、型号举例

IY2.5—800CD31 表示该液压传动装置采用单级行星减速器传动，齿轮箱模数为 2.5，总排量为 800mL/rev，输出轴采用螺纹法兰联接，液压马达配流器型号为 D31。

4、参数说明

- 1) 总排量为液压马达排量乘以减速器传动比；
- 2) 额定扭矩是在系统压力为 16MPa 或 20MPa 时，考虑了压力损失 2MPa 和相应传动效率后的实际输出扭矩；
- 3) 传动效率包括液压马达的机械效率和行星减速器机械效率。

5、选型说明

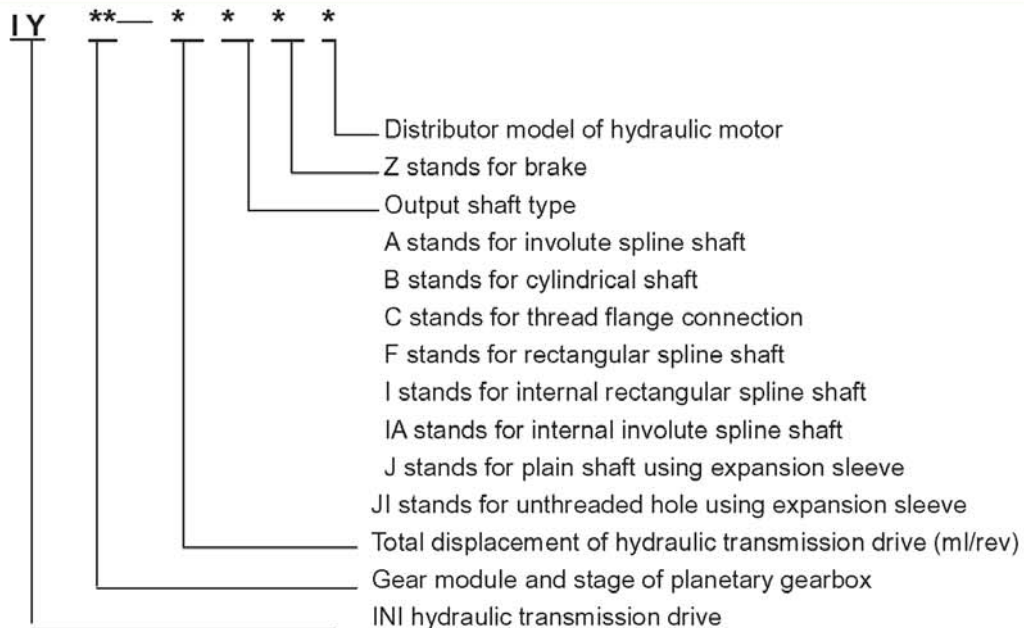
- 1) IY液压传动装置允许在高背压下工作。在连续工作时，许用背压10MPa；
- 2) 壳体允许最高压力为0.1MPa，当系统回油背压高于0.1MPa时，订货时应注明回油背压；
- 3) 液压油：建议使用高质量抗磨、防泡沫、抗氧化的矿基液压油，理想工作油温为30°C~50°C，允许温度为-20°C~80°C，当油温高于60°C和低于10°C时，必须用低凝液压油。液压油粘度为40~60厘沱，允许为5~3000厘沱；当选用水基乳化液作为介质时，用户应及时与本公司联系，以保证提供适用的产品；
- 4) 液压油过滤精度推荐为25 μm，或更高过滤精度；
- 5) 液压传动装置均可双向旋转，具体转向见附图。如用户要求与图示转向相反，请在订货时注明；
- 6) 泄油管定位：IY传动装置允许任何方向安装。为保证马达内各运动副的润滑，要求在工作之前将马达壳体内充满液压油，泄油口位置的选择必须保证运转中壳体充满液压油。当马达输出轴朝下时，泄油口应装一只0.5bar单向阀；
- 7) 配流器的选择：各型液压传动装置可以根据不同工况要求选用各种规格的配流器，选择配流器的原则应按使用压力、转速、流量、联接方式和所集成阀组要求来考虑；配流器安装：配流器进出油口方向允许按外形安装联接位置以72°为间隔旋转，但当松开螺钉旋转时，要当心不能损坏平面“O”型圈的密封功能。
- 8) 各型产品用户有超功率使用要求时，可与本公司联系，在对液压马达和行星减速器运动部件的材质和表面进行特殊处理后，产品的性能和传动功率可以有较大的提高，但制造成本和价格也会相应提高；
- 9) 相应的传动装置加上输出齿轮可制成回转装置，如需选购回转装置，请直接与本公司联系。

IY hydraulic transmission drives series

1. Brief introduction

IY series hydraulic transmission drives consist of hydraulic motor, planetary gearbox, disc brake and multi-function distributor. It features small radial dimension, light weight, high torque and high starting efficiency, good stability at low speed, low noise and good economy. In addition, the output shaft can bear large external radial and axial load. They are widely used in construction engineering, railway, road, ship, petroleum, coal mine, metallurgy industries. Different brakes and distributors with functional valves are available to meet customers' requirements.

2. Model Options



3. Options Example

IY2.5-800CD31 represents that the hydraulic transmission drive uses one stage planetary gearbox, gearbox module is 2.5, total displacement is 800ml/rev, the output shaft uses thread flange connection, and the distributor of the hydraulic motor is D31.

4. Specification explanation

- 1) Total displacement is determined by hydraulic motor displacement multiplies transmission ratio of planetary gearbox.
- 2) Rated torque is the actual output torque considering pressures lose of 2MPa and transmission efficiency when the system pressure is 16Mpa or 20Mpa.
- 3) Transmission efficiency includes mechanical and volumetric efficiency of hydraulic motor and mechanical efficiency of planetary gearbox.

5. Selection instruction

- 1) IY series hydraulic transmission drives can run at high back pressure. The allowable back pressure is 10MPa under continuous working condition.
- 2) The maximum allowable pressure of casing is 0.1Mpa. If the back pressure at the system return line is higher than 0.1MPa, please specify it when place an order.
- 3) Hydraulic oil: It's recommended to use high quality mineral-based hydraulic oil, which is anti-wear, anti-foam and anti-oxidation. The ideal oil temperature is between 30℃ and 50℃, and the allowable oil temperature is between -20℃ and 80℃. If the temperature is higher than 60℃ or lower than 10℃, please use low-freezing hydraulic oil. The oil viscosity is between 40cSt and 60cSt, and allowable viscosity is between 5cSt and 3000cSt. If customer chooses water-based emulsified liquid as medium, please contact us for right products.
- 4) It is recommended to use hydraulic oil with a filter rating of 25 μm or even higher.
- 5) The hydraulic transmission drives are bi-directional. See attached drawings for more information. Reverse direction is available if customers request so when place an order.
- 6) Positioning of drain line. IY hydraulic transmission drives can be installed in any direction. To ensure the smooth movement of kinematic pairs in the hydraulic motor, please fill the motor casing with hydraulic oil. The oil drain port must be positioned in such a way that there is always sufficient hydraulic oil in the motor casing. If the output shaft is pointing downward, please add a check valve of 0.5bar at the oil drain port.
- 7) Selection of distributors: Customers can choose different types of distributors for the hydraulic transmission drive based on different working conditions. Please take into consideration working pressure, speed, flow, connection type and function of integral valve block when select distributors.
Installation of distributor: The direction of oil port can rotate by every 72 ° Please take care not to damage the O ring when rotate the distributor.
- 8) If customers require over power operation, please contact us. We can greatly improve the performance of the product and transmission power by giving special treatment to the material and surface of moving parts inside planetary gearbox.
- 9) We can add an output gear to the hydraulic transmission drives to gain hydraulic slewing drives, if you need it please contact us.

IY2.5系列液压传动装置

IY2.5 Hydraulic transmission dives

型 号 Model	总排量(ml/rev) Total displacement	额定扭矩(N.m) Rated torque		转速范围 (r/min) Speed	液压马达型号 Motor model	行星减速器型号 Gearbox model	制动器型号 Brake	可选配流器型号 Distributor
		16 MPa	20 MPa					
IY2.5-450 * * *	430	843	1084	0~100	INM05-90	C2.5A(i=5)	Z052.5	D31,D60*** D40,D120*** D47,D240***
IY2.5-630 * * *	645	1264	1626		INM05-130			
IY2.5-800 * * *	830.5	1628	2093		INM05-150	C2.5D(i=5.5)		
IY2.5-1000 * * *	1050.5	2059	2648		INM05-200			

注：总排量为液压马达排量乘以减速器传动比；

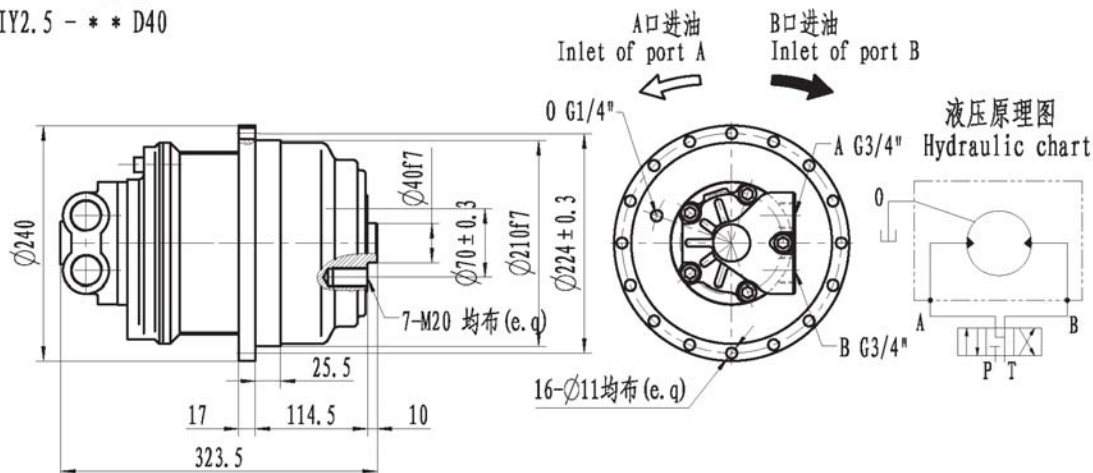
额定扭矩是系统压力（16MPa、20MPa）下考虑压力损失2MPa和传动效率后的实际扭矩；

Note: Total displacement is determined by hydraulic motor displacement multiplies transmission ratio of planetary gearbox.

Rated torque is the output torque considering pressures lose of 2MPa and transmission efficiency when the system pressure is 16MPa or 20MPa.

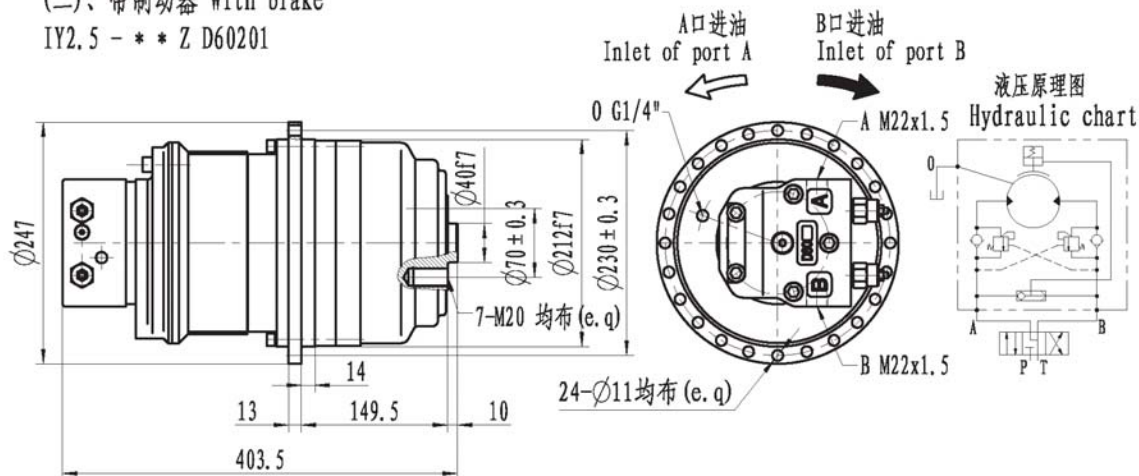
(一)、无制动器 Without brake

IY2.5 - ** D40

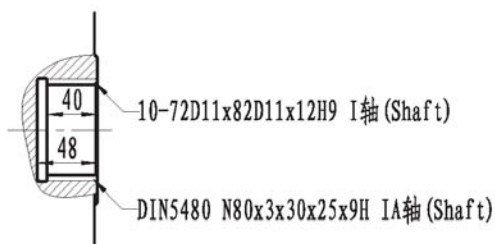
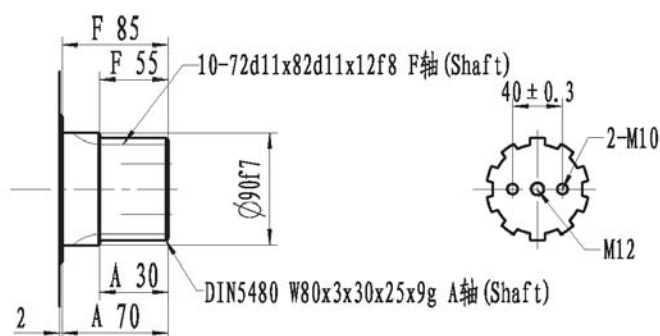
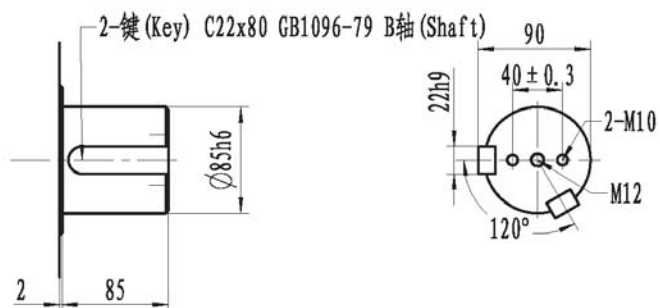


(二)、带制动器 With brake

IY2.5 - ** Z D60201



IY2.5 系列输出轴尺寸:
IY2.5 Series shaft dimensions:



注: 外形联接尺寸及输出轴有特殊要求, 请与我们直接联系
Note: Please contact us if there are any requirements from customer

IY3系列液压传动装置

IY3 Hydraulic transmission dives

型号 Model	总排量 (ml/rev) Total displacement	额定扭矩 (N.m) Rated torque		转速范围 (r/min) Speed	液压马达型号 Motor model	行星减速器型号 Gearbox model	制动器型号 Brake	可选配流量器型号 Distributor
		16 MPa	20 MPa					
IY3-700 ***	693	1358	1747	1~80	INM1-100	C3 (i=7)	Z13	D31, D60*** D40, D120*** D47, D240***
IY3-1000 ***	1078	2113	2717		INM1-150			
IY3-1700 ***	1701	3273	4028		INM1-250			
IY3-2200 ***	2198	4229	5437		INM1-320			

注：总排量为液压马达排量乘以减速器传动比；

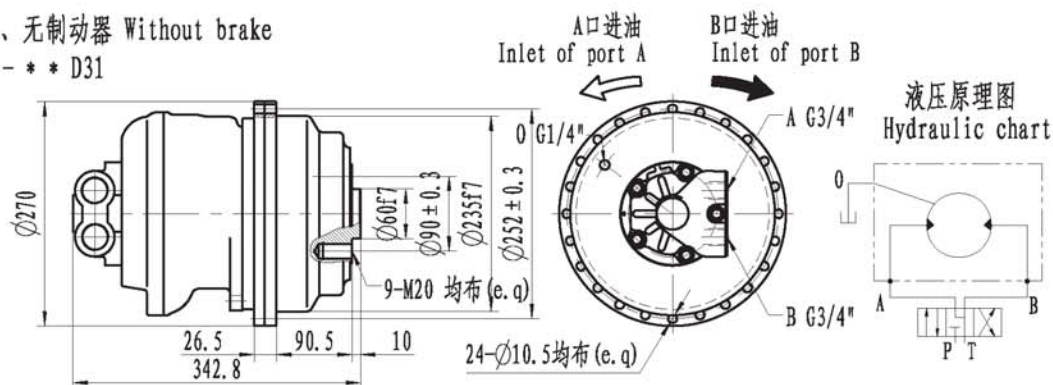
额定扭矩是系统压力 (16MPa、20MPa) 下考虑压力损失和传动效率后的实际扭矩；

Note: Total displacement is determined by hydraulic motor displacement multiplies transmission ratio of planetary gearbox.

Rated torque is the output torque considering pressures lose of 2MPa and transmission efficiency when the system pressure is 16MPa or 20MPa.

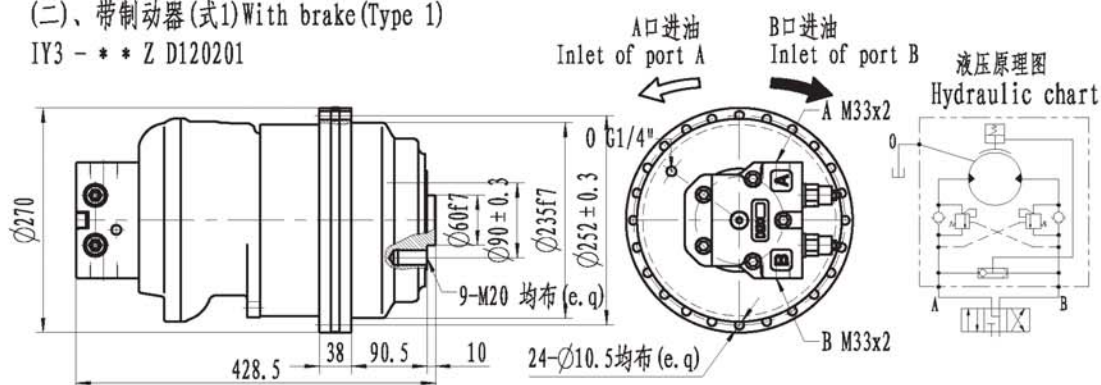
(一)、无制动器 Without brake

IY3 - * * D31



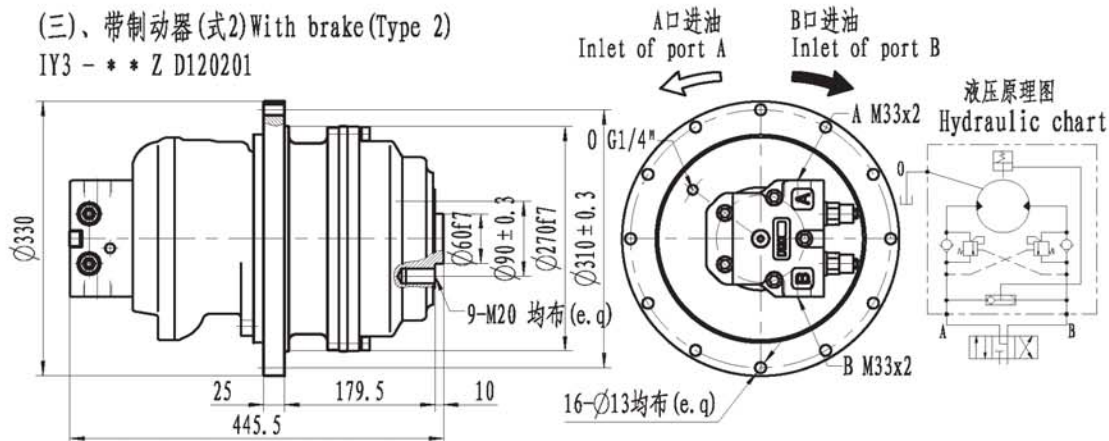
(二)、带制动器 (式1) With brake (Type 1)

IY3 - * * Z D120201



(三)、带制动器 (式2) With brake (Type 2)

IY3 - * * Z D120201



IY3 系列液压传动装置

IY3 Hydraulic transmission dives

型 号 Model	总排量(ml/rev) Total displacement	额定扭矩(N.m) Rated torque		转速范围 (r/min) Speed	液压马达型号 Motor model	行星减速器型号 Gearbox model	制动器型号 Brake	可选配流量型号 Distributor
		16 MPa	20 MPa					
IY3-2000 * * *	1908.5	3742	4811	1~85	INM2-350	C3D(i=5.5)	Z23	D31, D60***
IY3-2500 * * *	2337.5	4583	5892	1~65	INM2-420			D40, D120***
IY3-2750 * * *	2711.5	5316	6835	1~60	INM2-500			D47, D240***
IY3-3400 * * *	3426.5	6593	8476	1~45	INM2-630			

注: 总排量为液压马达排量乘以减速器传动比:

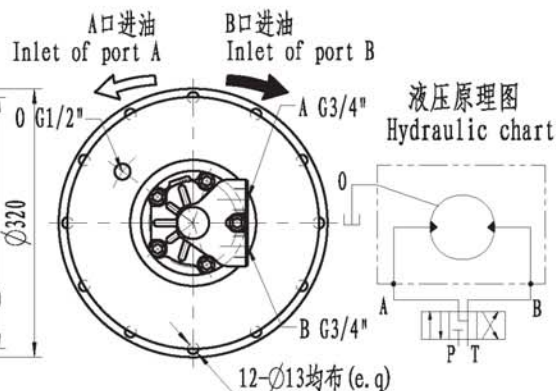
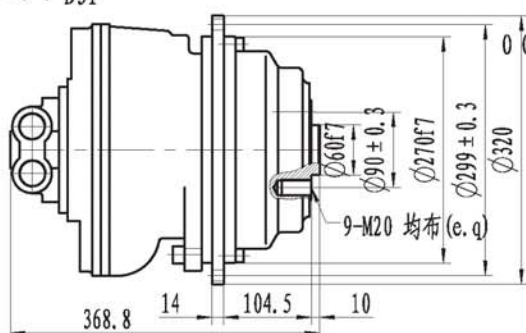
额定扭矩是系统压力(16MPa、20MPa)下考虑压力损失2MPa和传动效率后的实际扭矩:

Note: Total displacement is determined by hydraulic motor displacement multiplies transmission ratio of planetary gearbox.

Rated torque is the output torque considering pressures lose of 2MPa and transmission efficiency when the system pressure is 16Mpa or 20Mpa.

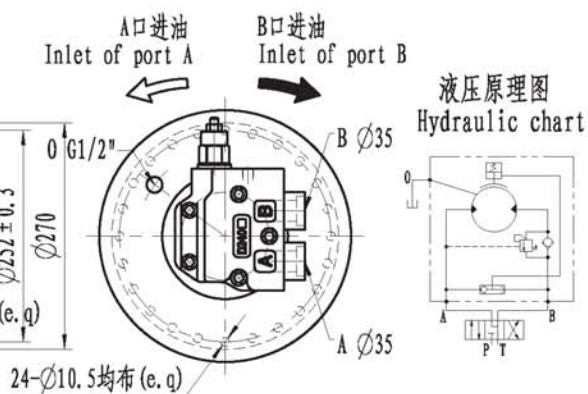
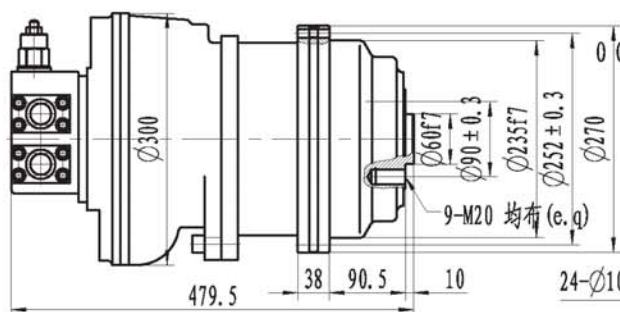
(一)、无制动器 Without brake

IY3 - * * D31



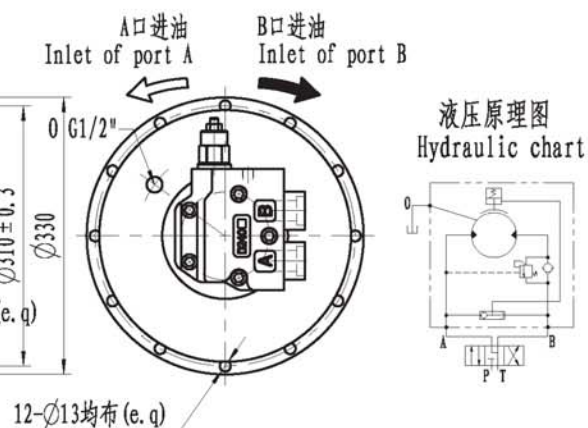
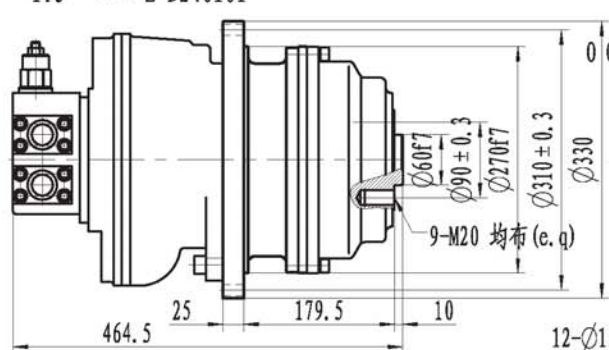
(二)、带制动器(式1)With brake (Type 1)

IY3 - * * Z D240101

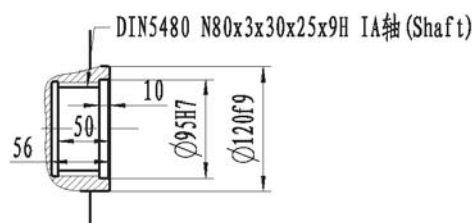
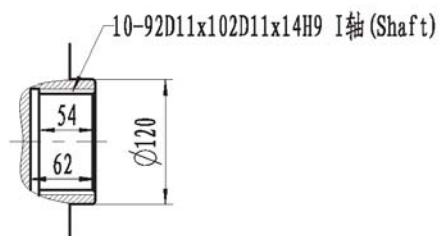
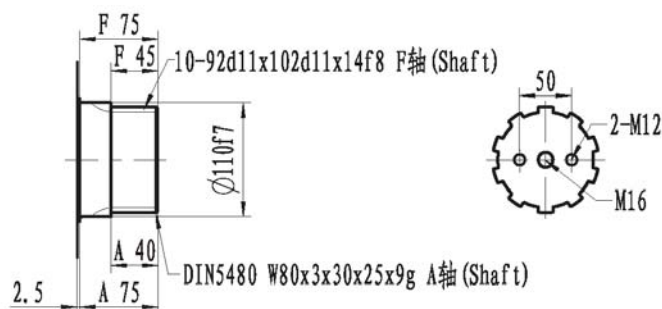
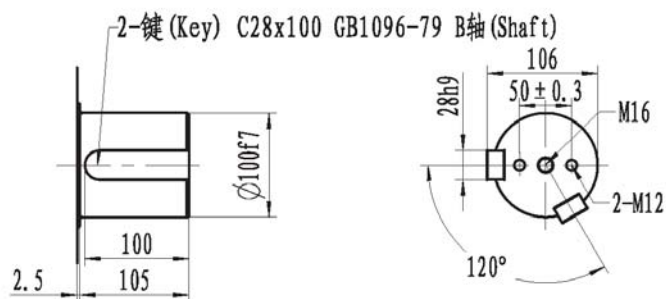


(三)、带制动器(式2)With brake (Type 2)

IY3 - * * Z D240101



IY3 系列输出轴尺寸:
IY3 Series shaft dimensions:



注: 外形联接尺寸及输出轴有特殊要求, 请与我们直接联系
Note: Please contact us if there are any requirements from customer

IY4系列液压传动装置

IY4 Hydraulic transmission dives

型号 Model	总排量 (ml/rev) Total displacement	额定扭矩 (N.m) Rated torque		转速范围 (r/min) Speed	液压马达型号 Motor model	行星减速器型号 Gearbox model	制动器型号 Brake	可选配流量器型号 Distributor
		16 MPa	20 MPa					
IY4-3400 ***	3402	6640	8537	1~70	INM3-500	C4 (i=7)	Z34	D40, D47, D90, D120*** D240*** D480***
IY4-4200 ***	4165	8014	10303	1~60	INM3-600			
IY4-4800 ***	4830	9293	11949	1~50	INM3-700			
IY4-5500 ***	5544	10667	13715	1~40	INM3-800			

注：总排量为液压马达排量乘以减速器传动比；

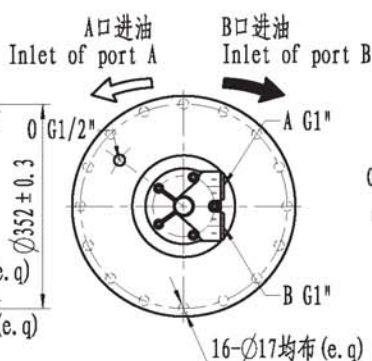
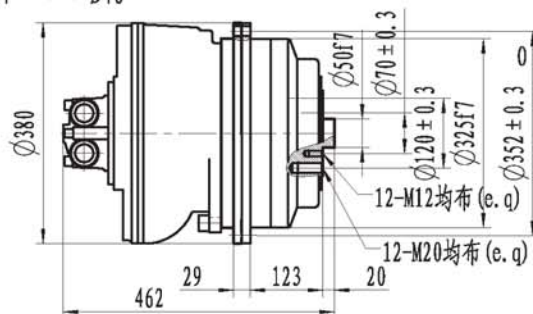
额定扭矩是系统压力 (16MPa、20MPa) 下考虑压力损失 2MPa 和传动效率后的实际扭矩；

Note: Total displacement is determined by hydraulic motor displacement multiplies transmission ratio of planetary gearbox.

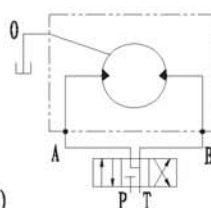
Rated torque is the output torque considering pressures lose of 2MPa and transmission efficiency when the system pressure is 16MPa or 20MPa.

(一)、无制动器 Without brake

IY4 - * * D40

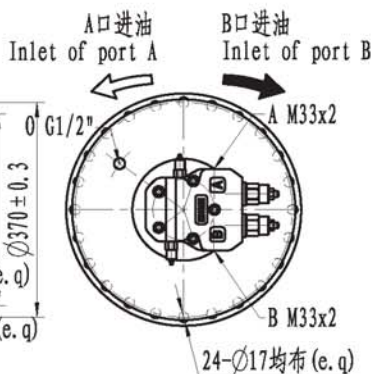
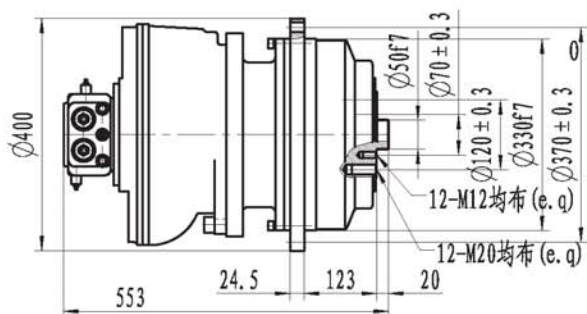


液压原理图
Hydraulic chart

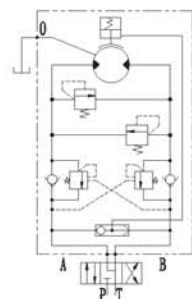


(二)、带制动器(式1) With brake (Type 1)

IY4 - * * Z D240221

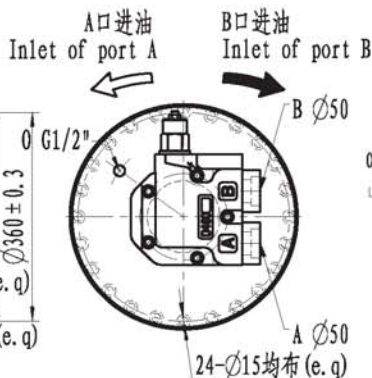
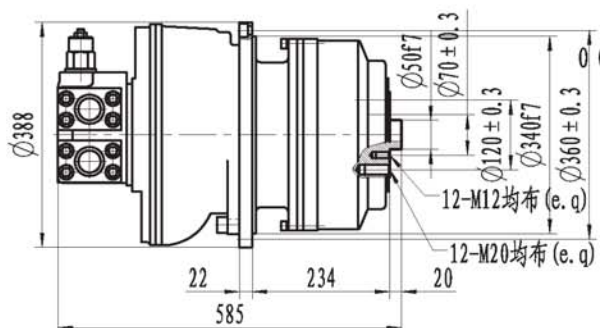


液压原理图
Hydraulic chart

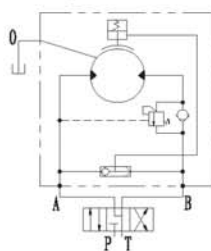


(三)、带制动器(式2) With brake (Type 2)

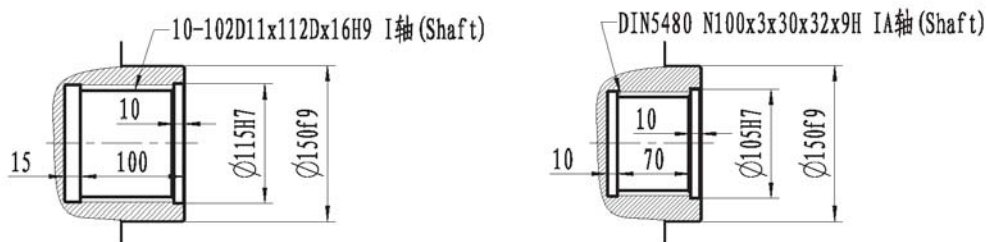
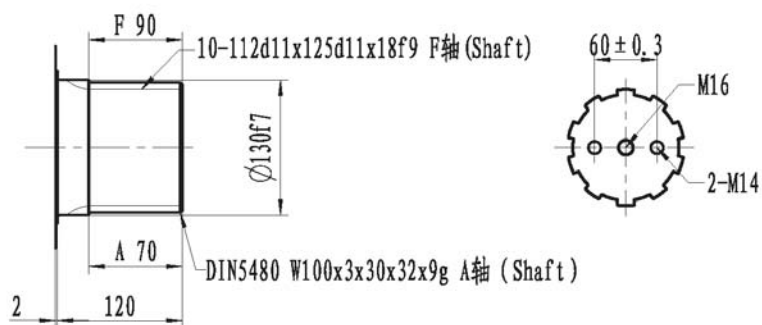
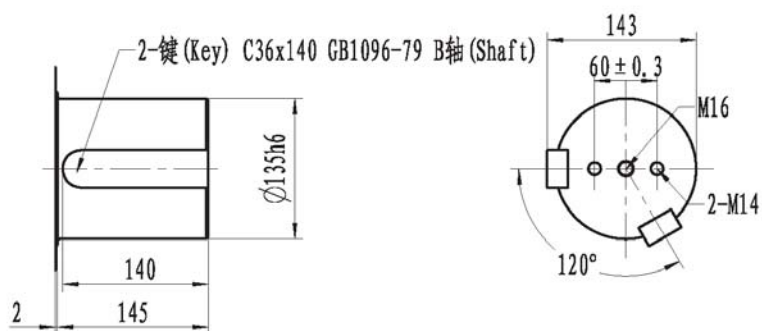
IY4 - * * Z D480101



液压原理图
Hydraulic chart



IY4 系列输出轴尺寸:
IY4 Series shaft dimensions:



注: 外形联接尺寸及输出轴有特殊要求, 请与我们直接联系
Note: Please contact us if there are any requirements from customer

IY5 系列液压传动装置

IY5 Hydraulic transmission dives

型号 Model	总排量 (ml/rev) Total displacement	额定扭矩 (N.m) Rated torque		转速范围 (r/min) Speed	液压马达型号 Motor model	行星减速器型号 Gearbox model	制动器型号 Brake	可选配流器型号 Distributor
		16 MPa	20 MPa					
IY5-7200 ***	7154	13675	17698	0.5 ~ 40	INM4-900	C5 (i=7)	Z55	D240***
IY5-7800 ***	7812	15031	19325	0.5 ~ 32	INM4-1100			D480***
IY5-9200 ***	9212	19384	24922	0.5 ~ 25	INM4-1300			D90, D90F480***

注：总排量为液压马达排量乘以减速器传动比；

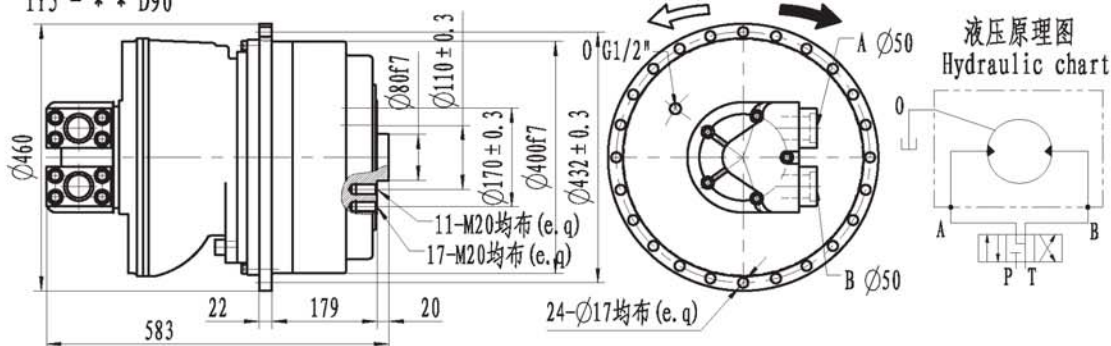
额定扭矩是系统压力 (16MPa、20MPa) 下考虑压力损失 2MPa 和传动效率后的实际扭矩；

Note: Total displacement is determined by hydraulic motor displacement multiplies transmission ratio of planetary gearbox.

Rated torque is the output torque considering pressures lose of 2MPa and transmission efficiency when the system pressure is 16MPa or 20MPa.

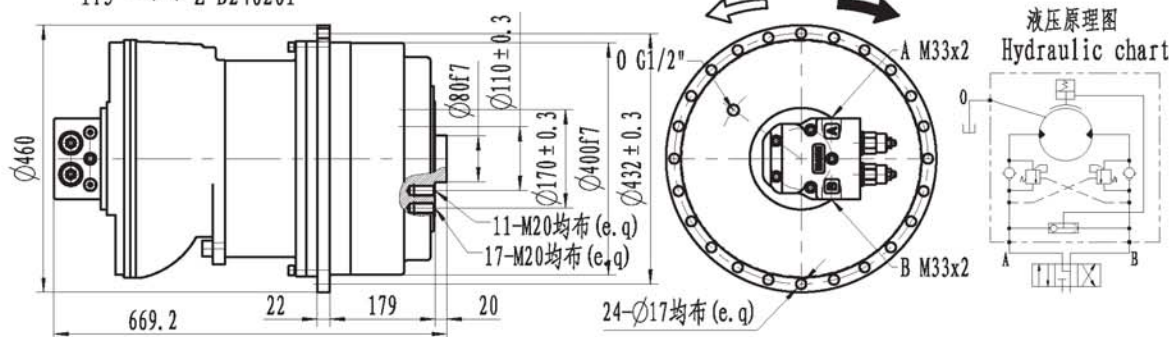
(一)、无制动器 Without brake

IY5 - ** D90



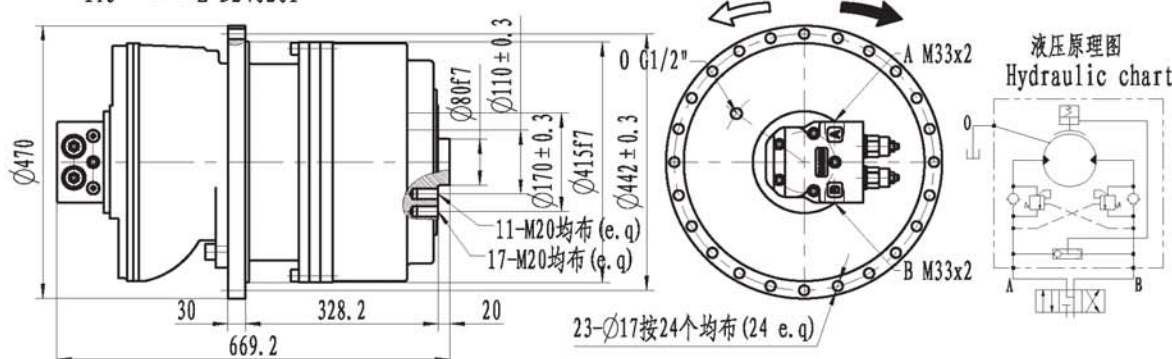
(二)、带制动器 (式1) With brake (Type 1)

IY5 - ** Z D240201



(三)、带制动器 (式2) With brake (Type 2)

IY5 - ** Z D240201



IY5系列液压传动装置

IY5 Hydraulic transmission dives

型号 Model	总排量 (ml/rev) Total displacement	额定扭矩 (N.m) Rated torque		转速范围 (r/min) Speed	液压马达型号 Motor model	行星减速器型号 Gearbox model	制动器型号 Brake	可选配流器型号 Distributor
		16 MPa	20 MPa					
IY5-10000 ***	9988	20029	25752	0.5~20	INM5-1800	CSD (i=5.5)	Z55	D240***
IY5-11000 ***	11038.5	22136	28460	0.5~15	INM5-2000			D480*** D90, D90R480***

注：总排量为液压马达排量乘以减速器传动比；

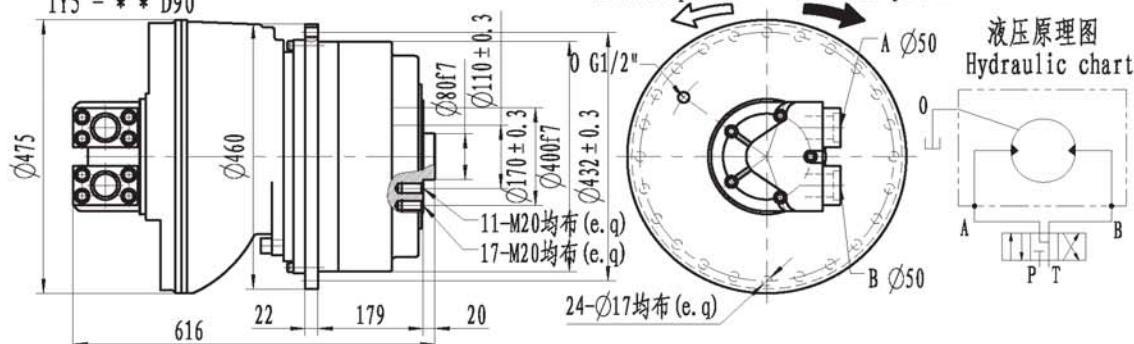
额定扭矩是系统压力 (16MPa、20MPa) 下考虑压力损失2MPa和传动效率后的实际扭矩；

Note: Total displacement is determined by hydraulic motor displacement multiplies transmission ratio of planetary gearbox.

Rated torque is the output torque considering pressures lose of 2MPa and transmission efficiency when the system pressure is 16MPa or 20MPa.

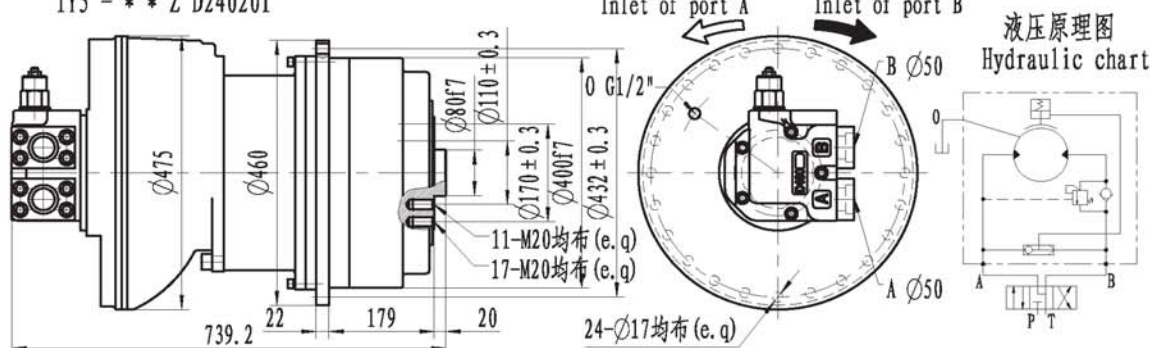
(一)、无制动器 Without brake

IY5 - ** D90



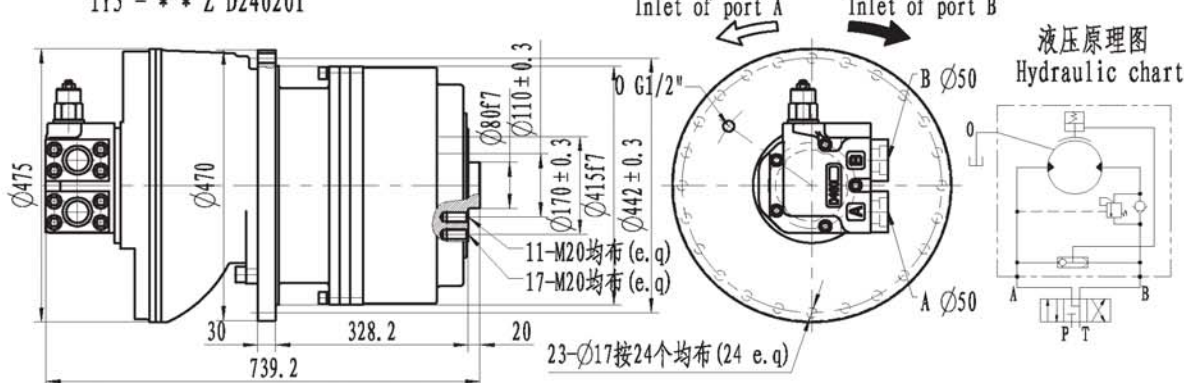
(二)、带制动器 (式1) With brake (Type 1)

IY5 - ** Z D240201

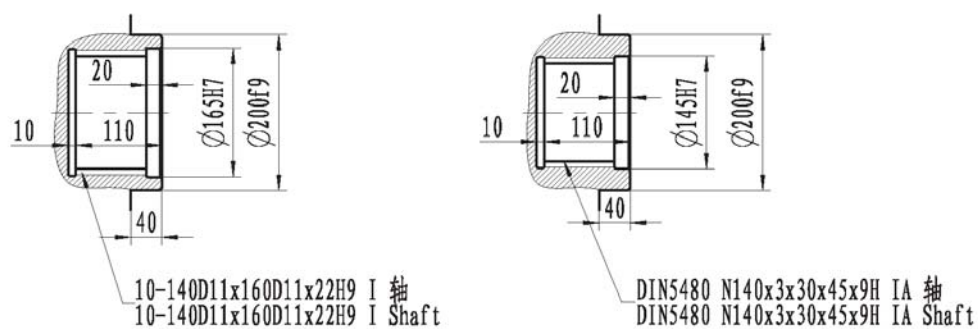
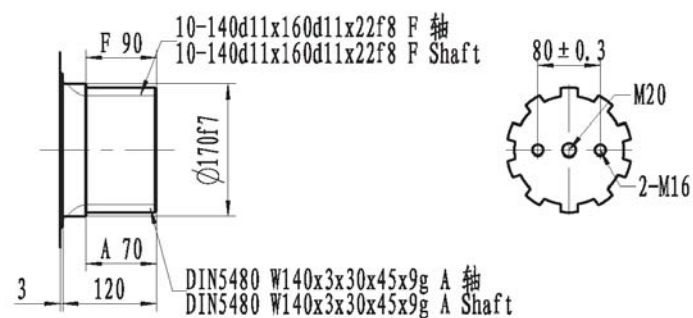
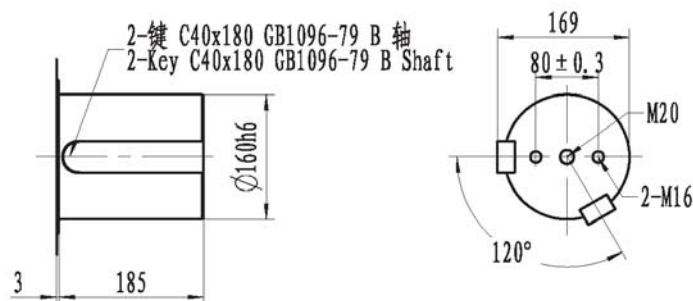


(三)、带制动器 (式2) With brake (Type 2)

IY5 - ** Z D240201



IY5 系列输出轴尺寸:
IY5 Series shaft dimensions:



注: 外形联接尺寸及输出轴有特殊要求, 请与我们直接联系
Note: Please contact us if there are any requirements from customer

IY6 系列液压传动装置

IY6 Hydraulic transmission dives

型号 Model	总排量 (ml/rev) Total displacement	额定扭矩 (N.m) Rated torque		转速范围 (r/min) Speed	液压马达型号 Motor model	行星减速器型号 Gearbox model	制动器型号 Brake	可选配流器型号 Distributor
		16 MPa	20 MPa					
IY6-14800 ***	14889	28647	36832	0.5~32	INM6-2100	C6 (i=7)	Z66	D90, D480101
IY6-17600 ***	17591	33846	43517	0.5~25	INM6-2500			D90F480***
IY6-21300 ***	21287	40958	/	0.5~20	INM6-3000			D90F720***

注：总排量为液压马达排量乘以减速器传动比；

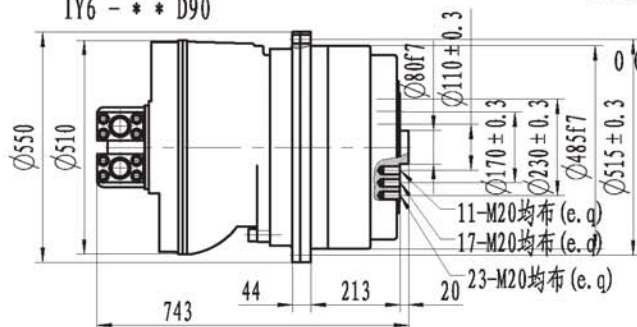
额定扭矩是系统压力 (16MPa、20MPa) 下考虑压力损失 2MPa 和传动效率后的实际扭矩；

Note: Total displacement is determined by hydraulic motor displacement multiplies transmission ratio of planetary gearbox.

Rated torque is the output torque considering pressures lose of 2MPa and transmission efficiency when the system pressure is 16MPa or 20MPa.

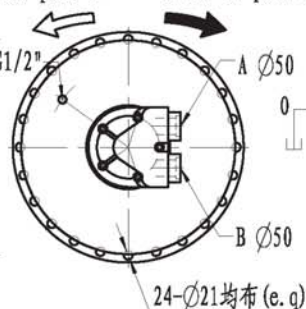
(一)、无制动器 Without brake

IY6 - ** D90

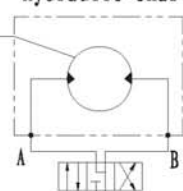


A口进油 Inlet of port A

B口进油 Inlet of port B

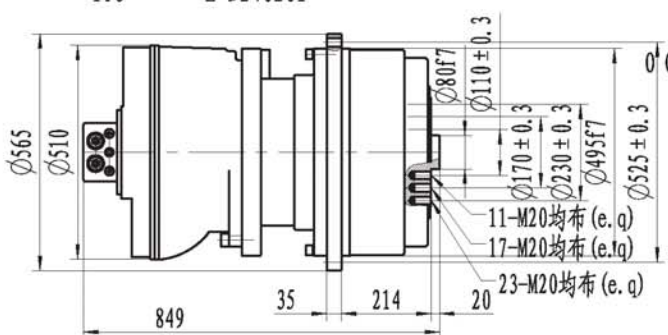


液压原理图
Hydraulic chart



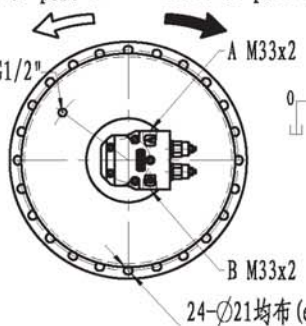
(二)、带制动器 (式1) With brake (Type 1)

IY6 - ** Z D240201

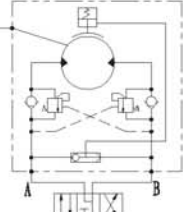


A口进油 Inlet of port A

B口进油 Inlet of port B

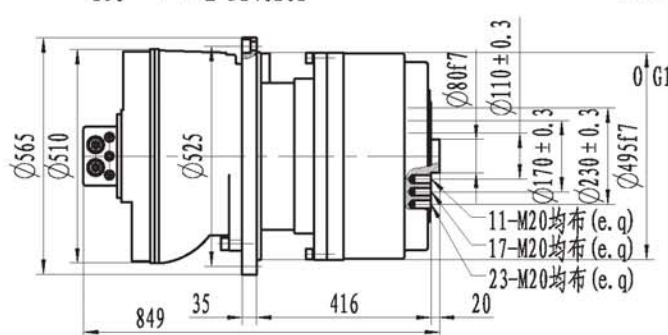


液压原理图
Hydraulic chart



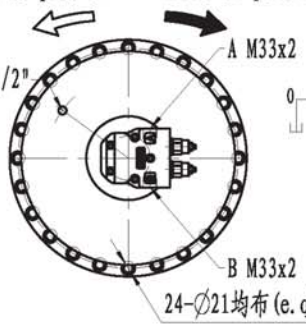
(三)、带制动器 (式2) With brake (Type 2)

IY6 - ** Z D240201

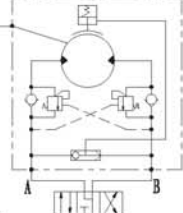


A口进油 Inlet of port A

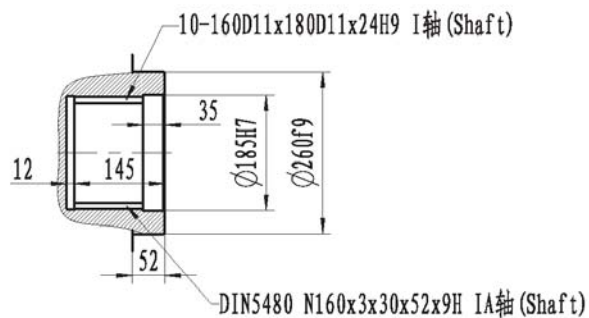
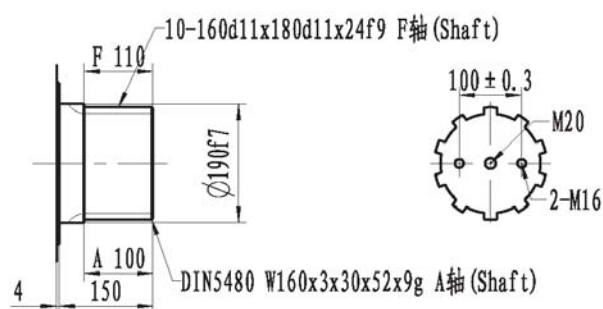
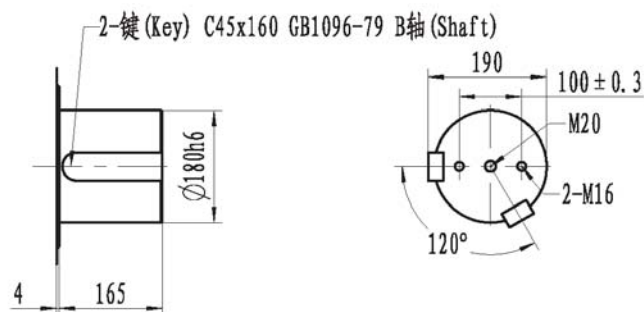
B口进油 Inlet of port B



液压原理图
Hydraulic chart



IY6 系列输出轴尺寸:
IY6 Series shaft dimensions:



注: 外形联接尺寸及输出轴有特殊要求, 请与我们直接联系
Note: Please contact us if there are any requirements from customer

IY7 系列液压传动装置

IY7 Hydraulic transmission dives

型 号 Model	总排量(ml/rev) Total displacement	额定扭矩(N.m) Rated torque		转速范围 (r/min) Speed	液压马达型号 Motor model	行星减速器型号 Gearbox model	可选配流器型号 Distributor
		16 MPa	20 MPa				
IY7-18000 * * *	17650	35394	45507	0.5~40	IHM31-3500	C7A (i=5)	D90 D250 D240*** D480***
IY7-20000 * * *	20060	40227	51720	0.5~32	IHM31-4000		
IY7-25000 * * *	24940	50013	64303	0.5~30	IHM31-5000		
IY7-27500 * * *	27434	55014	70733	0.5~25	IHM31-5000	C7D (i=5.5)	
IY7-29200 * * *	29199.5	56182	72234	0.5~20	IHM31-5500		
IY7-33800 * * *	33869	65166	83785	0.5~16	IHM31-6300		

注：总排量为液压马达排量乘以减速器传动比；

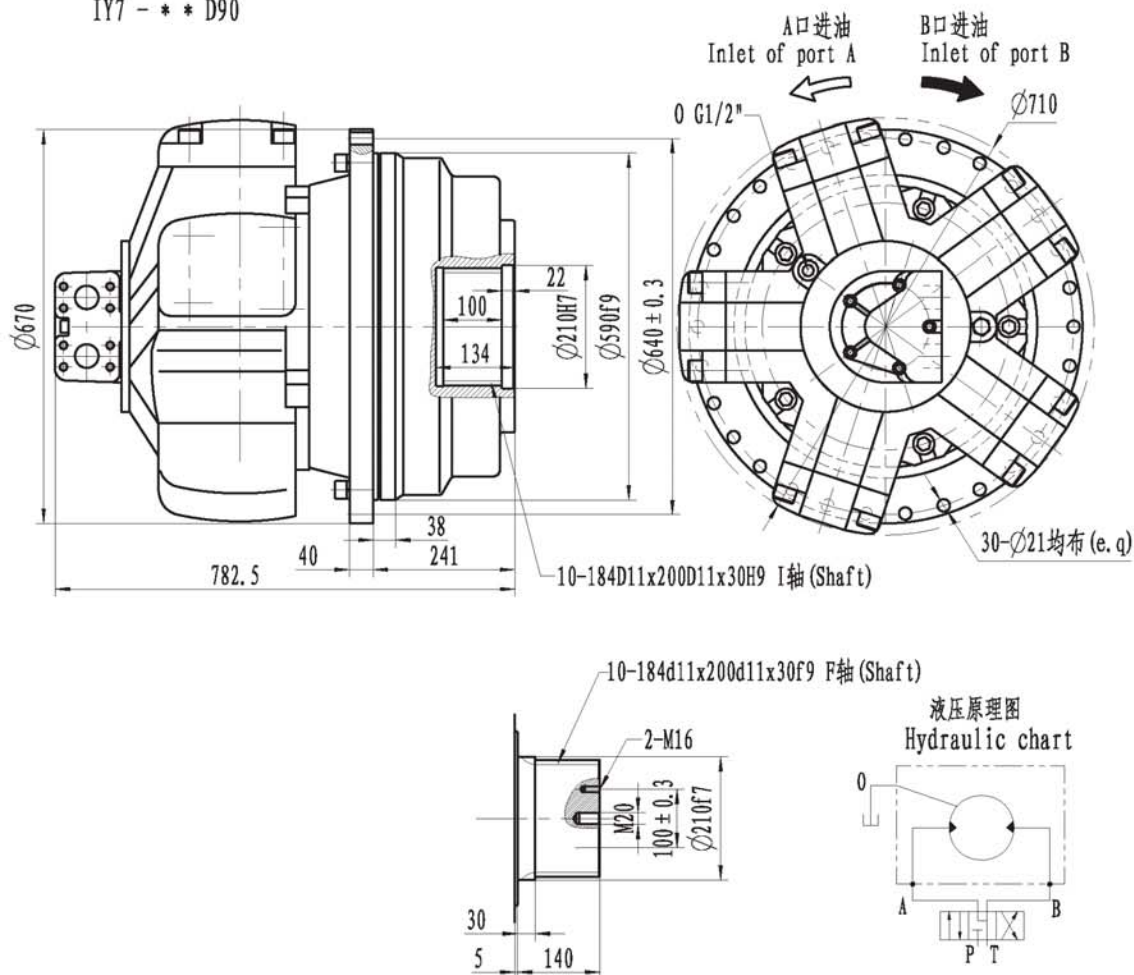
额定扭矩是系统压力 (16MPa、20MPa) 下考虑压力损失 2MPa 和传动效率后的实际扭矩；

Note: Total displacement is determined by hydraulic motor displacement multiplies transmission ratio of planetary gearbox.

Rated torque is the output torque considering pressures lose of 2MPa and transmission efficiency when the system pressure is 16MPa or 20MPa.

(一)、无制动器 Without brake

IY7 - ** D90



注：外形联接尺寸及输出轴有特殊要求，请与我们直接联系

Note: Please contact us if there are any requirements from customer

IY2.53 系列液压传动装置

IY2.53 Hydraulic transmission dives

型号 Model	总排量 (ml/rev) Total displacement	额定扭矩 (N.m) Rated torque		转速范围 (r/min) Speed	液压马达型号 Motor model	行星减速器型号 Gearbox model	制动器型号 Brake	可选配流器型号 Distributor
		16 MPa	20 MPa					
IY2.53-2400 ***	2408	4500	6000	0.25 ~ 30	INM05-90	C2.53 (i=28)	Z05	D31, D60*** D40, D120*** D47, D240***
IY2.53-3200 ***	3220	6000	8000	0.25 ~ 25	INM05-110			
IY2.53-4200 ***	4228	8000	/	0.25 ~ 20	INM05-150			

注：总排量为液压马达排量乘以减速器传动比；

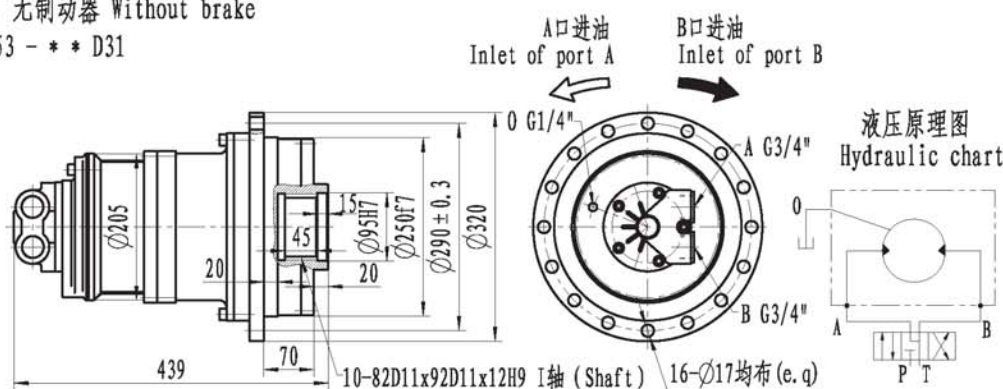
额定扭矩是系统压力 (16MPa、20MPa) 下考虑压力损失 2MPa 和传动效率后的实际扭矩；

Note: Total displacement is determined by hydraulic motor displacement multiplies transmission ratio of planetary gearbox.

Rated torque is the output torque considering pressures lose of 2MPa and transmission efficiency when the system pressure is 16Mpa or 20Mpa.

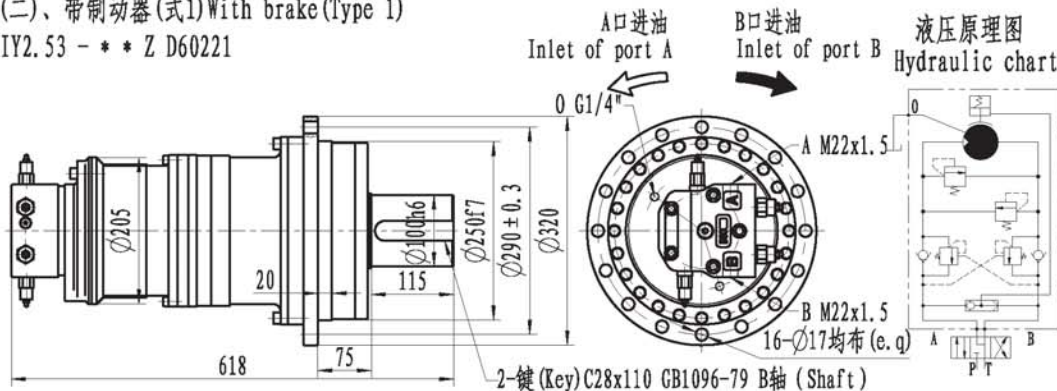
(一)、无制动器 Without brake

IY2.53 - * * D31



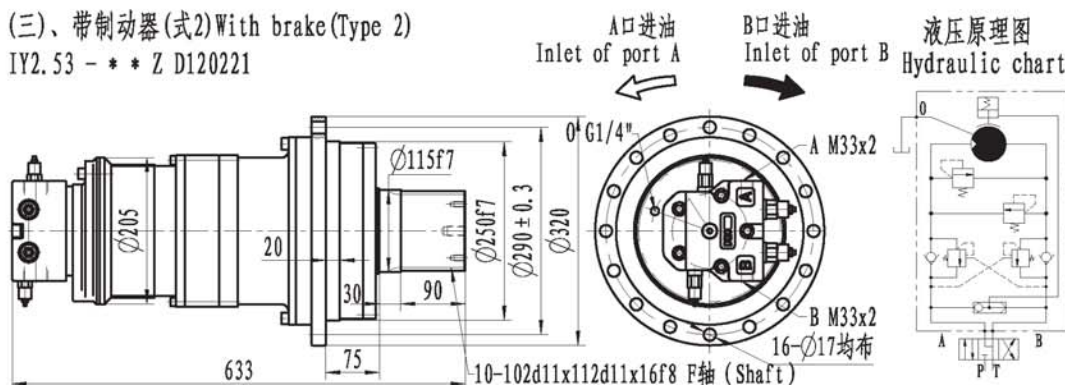
(二)、带制动器(式1) With brake (Type 1)

IY2.53 - * * Z D60221



(三)、带制动器(式2) With brake (Type 2)

IY2.53 - * * Z D120221



IY34 系列液压传动装置

IY34 Hydraulic transmission dives

型号 Model	总排量 (ml/rev) Total displacement	额定扭矩 (N.m) Rated torque		转速范围 (r/min) Speed	液压马达型号 Motor model	行星减速器型号 Gearbox model	制动器型号 Brake	可选配流器型号 Distributor
		16 MPa	20 MPa					
IY34-4300 ***	4312	8638	11100	0.2~16	INM1-150	C34 (i=28)	Z13	D40 D60*** D120*** D240***
IY34-5600 ***	5628	11275	14500		INM1-200			
IY34-6800 ***	6804	13630	17525	0.2~10	INM1-250			
IY34-8800 ***	8792	17600	/		INM1-320			

注：总排量为液压马达排量乘以减速器传动比；

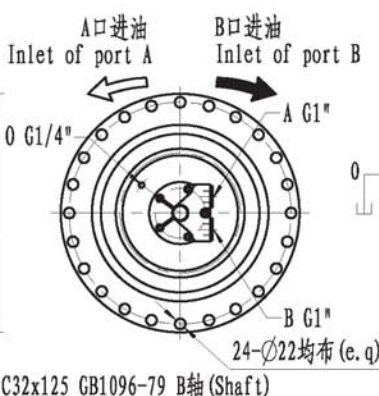
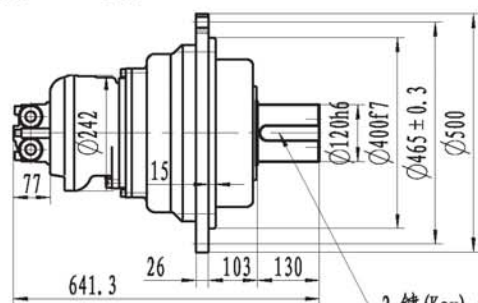
额定扭矩是系统压力 (16MPa、20MPa) 下考虑压力损失 2MPa 和传动效率后的实际扭矩；

Note: Total displacement is determined by hydraulic motor displacement multiplies transmission ratio of planetary gearbox.

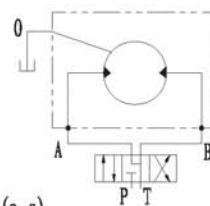
Rated torque is the output torque considering pressures lose of 2MPa and transmission efficiency when the system pressure is 16MPa or 20MPa.

(一)、无制动器 Without brake

IY34 - ** D40

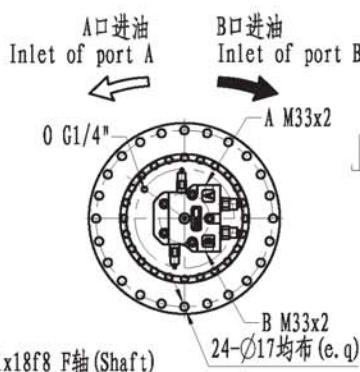
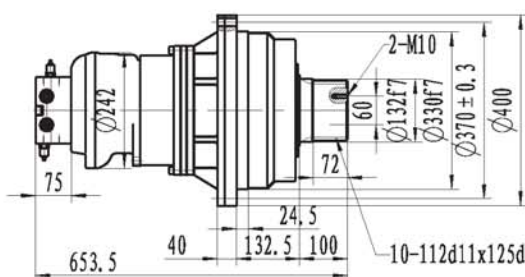


液压原理图
Hydraulic chart

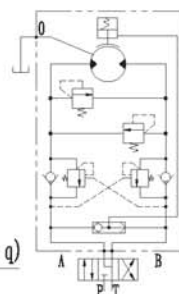


(二)、带制动器 (式1) With brake (Type 1)

IY34 - ** Z D120221

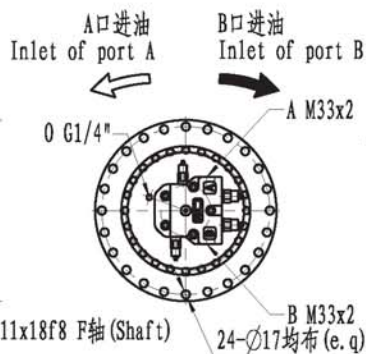
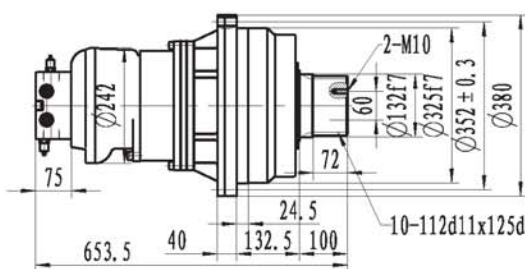


液压原理图
Hydraulic chart

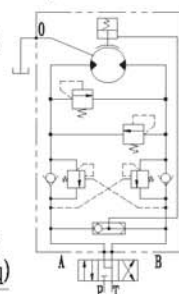


(三)、带制动器 (式2) With brake (Type 2)

IY34 - ** Z D120221



液压原理图
Hydraulic chart



IY45 系列液压传动装置

IY45 Hydraulic transmission dives

型号 Model	总排量 (ml/rev) Total displacement	额定扭矩 (N.m) Rated torque		转速范围 (r/min) Speed	液压马达型号 Motor model	行星减速器型号 Gearbox model	制动器型号 Brake	可选配流器型号 Distributor
		16 MPa	20 MPa					
IY45-11900 ***	11928	23000	29000	0.2~15	INM3-425	C45 (i=28)	Z34	D47
IY45-13600 ***	13608	25000	33000		INM3-500			D90
IY45-16600 ***	16660	32000	38000	0.2~10	INM3-600			D240***

注：总排量为液压马达排量乘以减速器传动比；

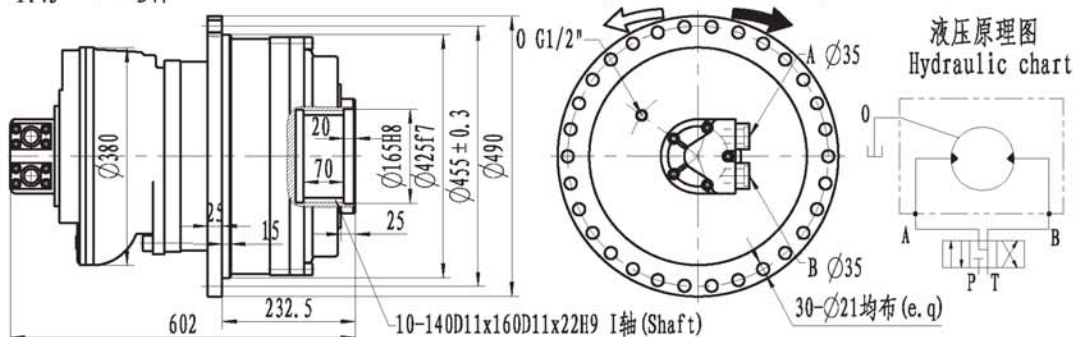
额定扭矩是系统压力 (16MPa、20MPa) 下考虑压力损失和传动效率后的实际扭矩；

Note: Total displacement is determined by hydraulic motor displacement multiplies transmission ratio of planetary gearbox.

Rated torque is the output torque considering pressures lose of 2MPa and transmission efficiency when the system pressure is 16Mpa or 20Mpa.

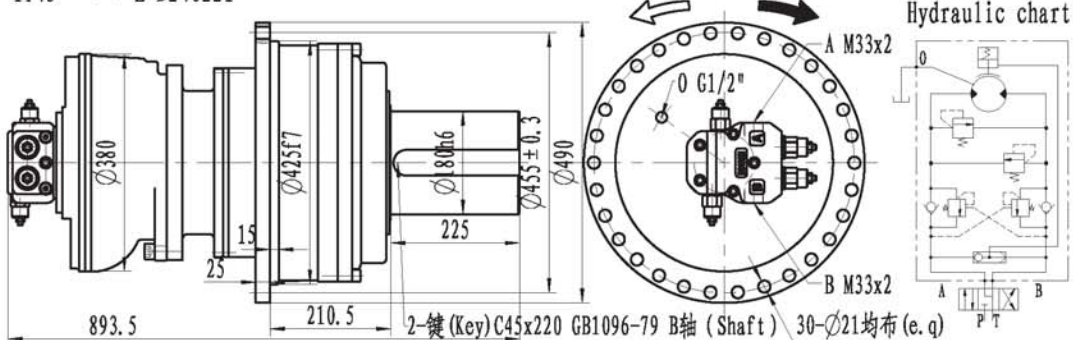
(一)、无制动器 Without brake

IY45 - ** D47



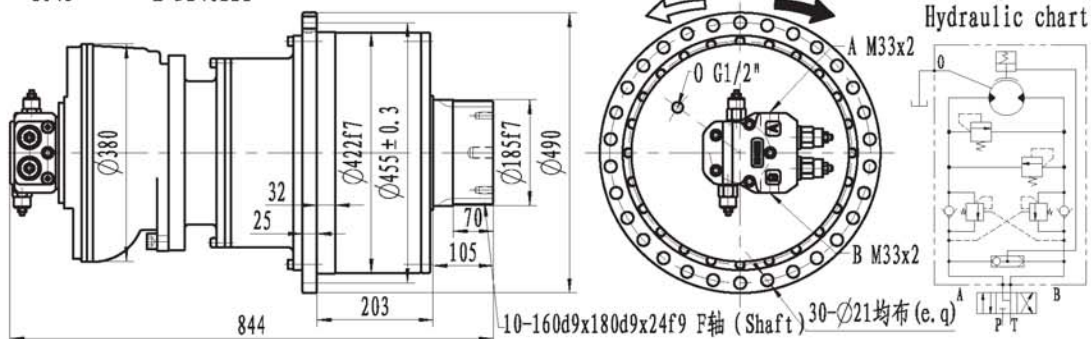
(二)、带制动器 (式1) With brake (Type 1)

IY45 - ** Z D240221



(三)、带制动器 (式2) With brake (Type 2)

IY45 - ** Z D240221



IY56 系列液压传动装置

IY56 Hydraulic transmission dives

型号 Model	总排量 (ml/rev) Total displacement	额定扭矩 (N.m) Rated torque		转速范围 (r/min) Speed	液压马达型号 Motor model	行星减速器型号 Gearbox model	制动器型号 Brake	可选配流量器型号 Distributor
		16 MPa	20 MPa					
IY56-24400 ***	24444	46000	60000	0.2~8	INM3-900	C56 (i=28)	Z45	D90 D120*** D240***
IY56-28600 ***	28616	54000	66000		INM4-1000			
IY56-31200 ***	31248	63000	/		INM4-1100			

注：总排量为液压马达排量乘以减速器传动比；

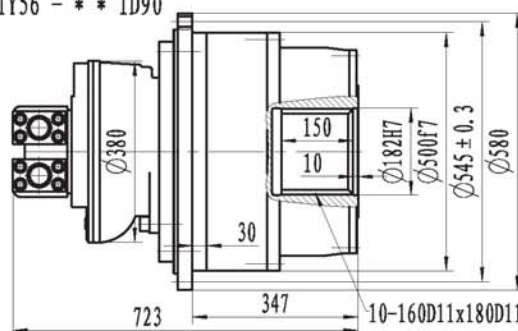
额定扭矩是系统压力 (16MPa、20MPa) 下考虑压力损失 2MPa 和传动效率后的实际扭矩；

Note: Total displacement is determined by hydraulic motor displacement multiplies transmission ratio of planetary gearbox.

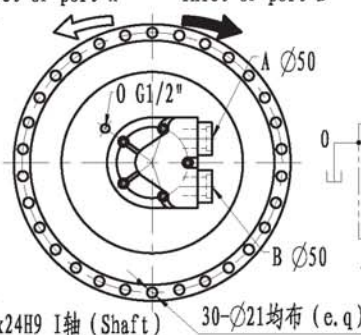
Rated torque is the output torque considering pressures lose of 2MPa and transmission efficiency when the system pressure is 16MPa or 20MPa.

(一)、无制动器 Without brake

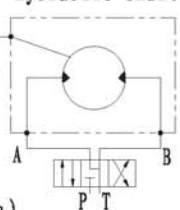
IY56 - ** ID90



A口进油 Inlet of port A B口进油 Inlet of port B

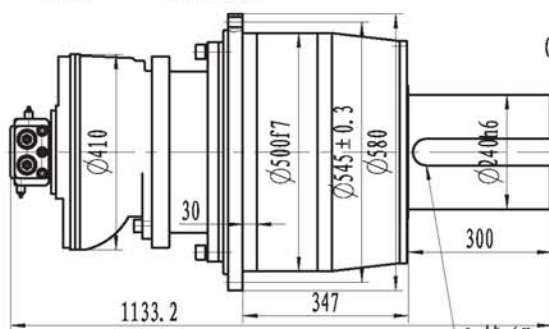


液压原理图
Hydraulic chart

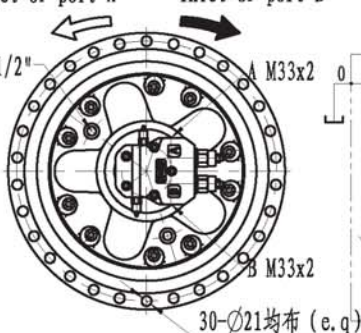


(二)、带制动器 (式1) With brake (Type 1)

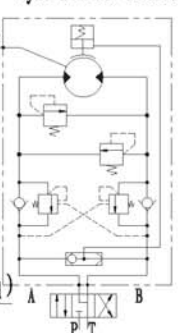
IY56 - ** BZD240221



A口进油 Inlet of port A B口进油 Inlet of port B

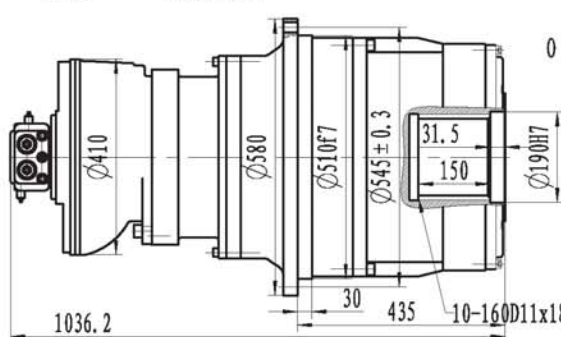


液压原理图
Hydraulic chart

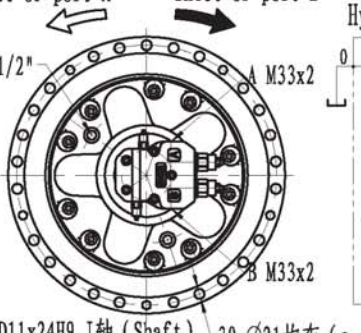


(三)、带制动器 (式2) With brake (Type 2)

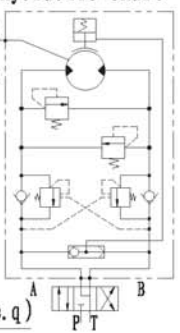
IY56 - ** IZD240221



A口进油 Inlet of port A B口进油 Inlet of port B



液压原理图
Hydraulic chart



IY67系列液压传动装置

IY67 Hydraulic transmission dives

型号 Model	总排量 (ml/rev) Total displacement	额定扭矩 (N.m) Rated torque		转速范围 (r/min) Speed	液压马达型号 Motor model	行星减速器型号 Gearbox model	制动器型号 Brake	可选配流量器型号 Distributor
		16 MPa	20 MPa					
IY67-36000 ***	35948	65000	80000	0.2~6	INM5-1600	C67 (i=22)	Z56	D90
IY67-40000 ***	39952	75000	90000		INM5-1800			D240***
IY67-46000 ***	46794	90000	/		INM6-2100			D480***

注: 总排量为液压马达排量乘以减速器传动比;

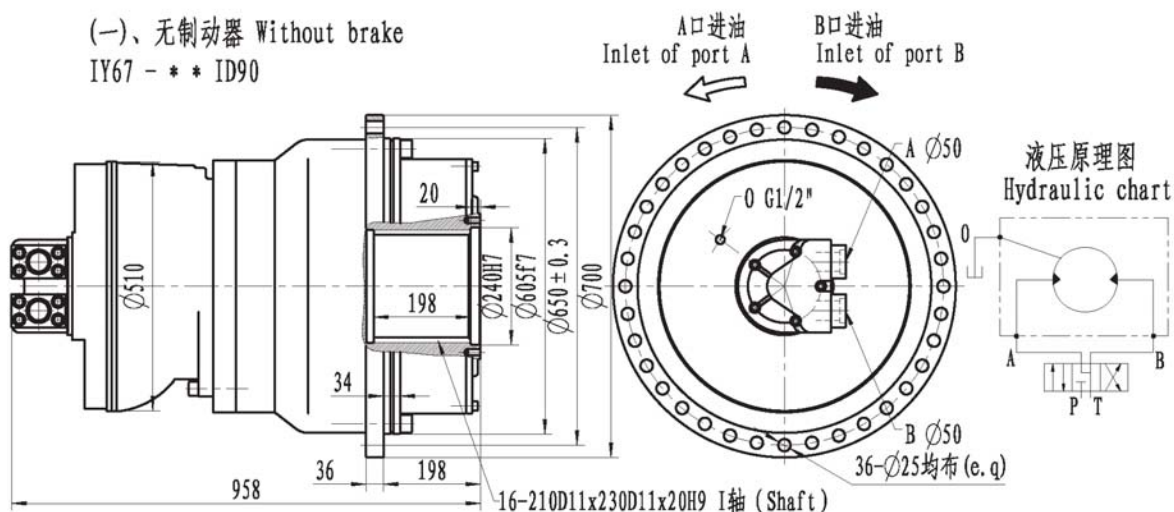
额定扭矩是系统压力 (16MPa、20MPa) 下考虑压力损失 2MPa 和传动效率后的实际扭矩;

Note: Total displacement is determined by hydraulic motor displacement multiplies transmission ratio of planetary gearbox.

Rated torque is the output torque considering pressures lose of 2MPa and transmission efficiency when the system pressure is 16Mpa or 20Mpa.

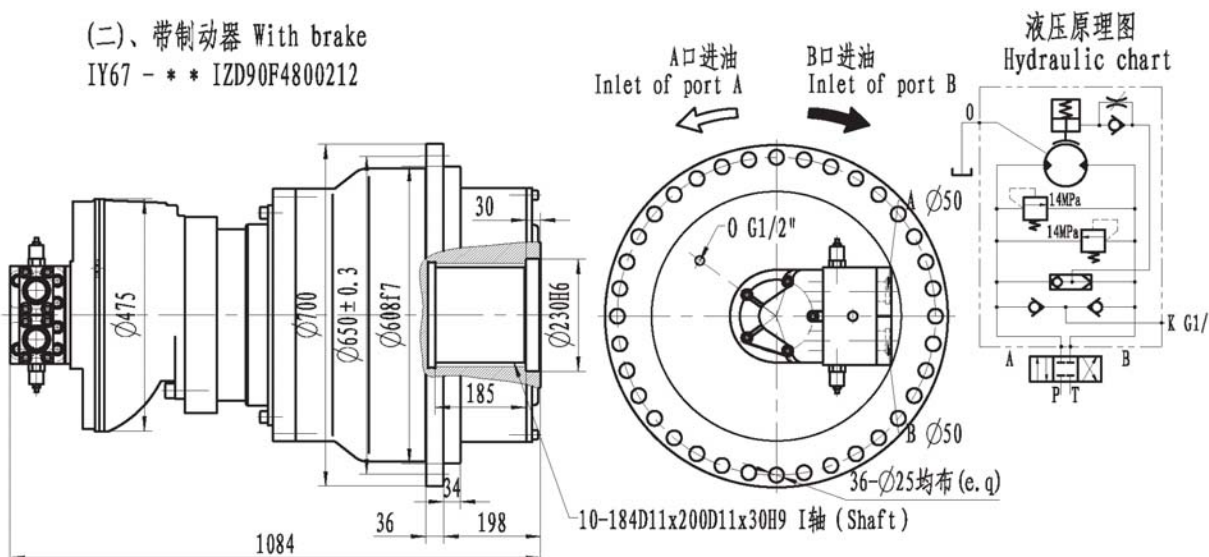
(一)、无制动器 Without brake

IY67 - ** ID90



(二)、带制动器 With brake

IY67 - ** IZD90F4800212



IY79系列液压传动装置

IY79 Hydraulic transmission dives

型号 Model	总排量 (ml/rev) Total displacement	额定扭矩 (N.m) Rated torque		转速范围 (r/min) Speed	液压马达型号 Motor model	行星减速器型号 Gearbox model	可选配流器型号 Distributor
		16 MPa	20 MPa				
IY79-55000 ***	55286	110867	142544	0.2~10	INM6-2500	C79 (i=22)	D90
IY79-67000 ***	66902	134162	172494	0.2~8	INM6-3000		D240***
IY79-80000 ***	77660	155735	200231	0.2~5	IHM31-3500		D480***

注：总排量为液压马达排量乘以减速器传动比；

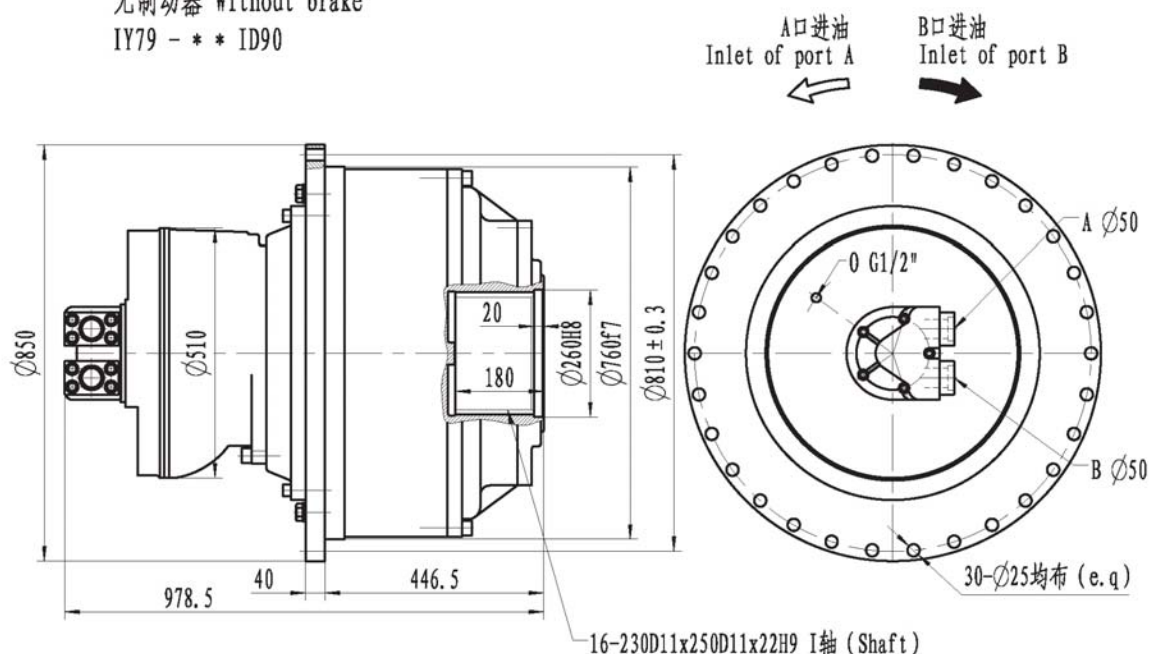
额定扭矩是系统压力 (16MPa、20MPa) 下考虑压力损失 2MPa 和传动效率后的实际扭矩；

Note: Total displacement is determined by hydraulic motor displacement multiplies transmission ratio of planetary gearbox.

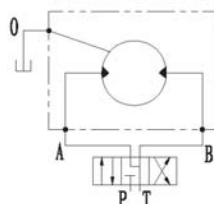
Rated torque is the output torque considering pressures lose of 2MPa and transmission efficiency when the system pressure is 16MPa or 20MPa.

无制动器 Without brake

IY79 - * * ID90

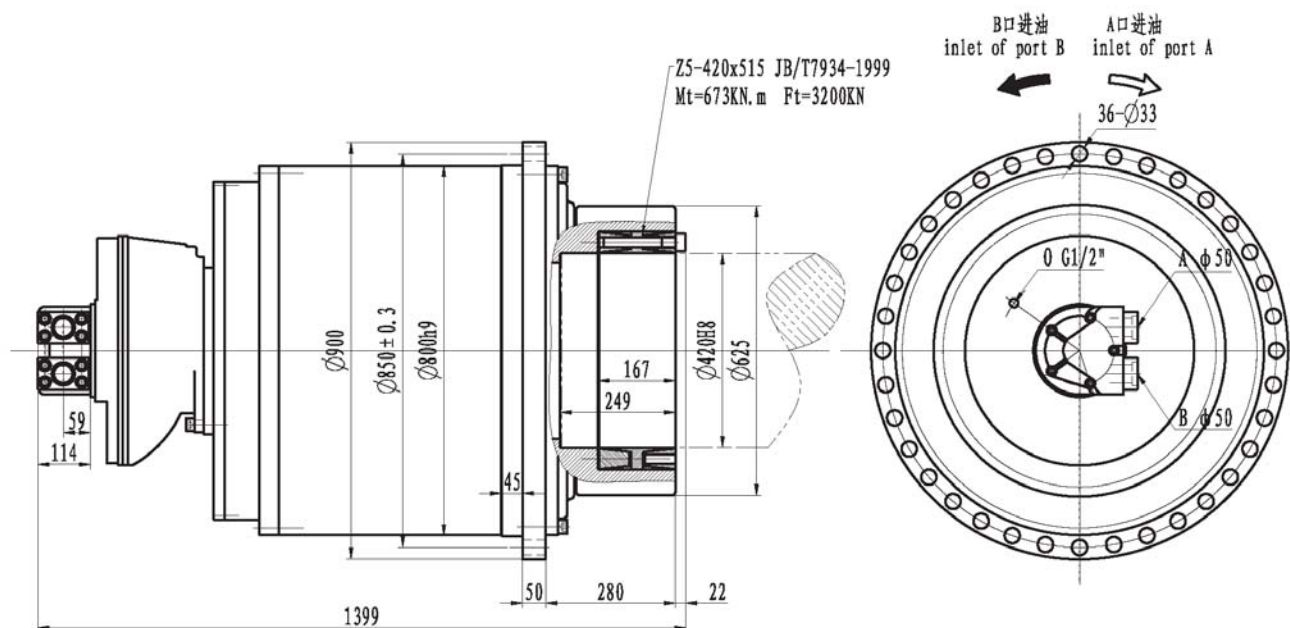


液压原理图
Hydraulic chart



IY61111-235000液压传动装置

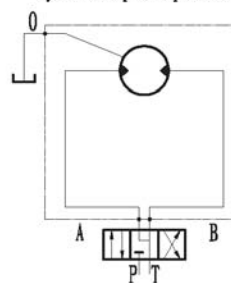
IY61111-235000 Hydraulic transmission series



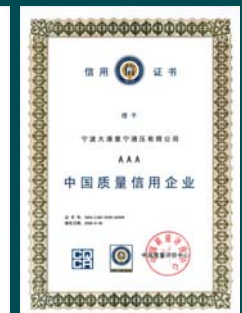
主要技术参数
Main Specification

额定扭矩	Rated torque (N.m)	550000
转速	Speed (r/min)	1
排量	Displacement (mL/r)	235125.7
系统额定压力	System rated pressure (Bar)	190
工作压力差	Work pres. diff. (Bar)	175
泵供油流量	Pump flow (L/min)	261 ($\eta_v=0.9$)
液压马达型号	Hydraulic motor type	INM5-1000D90
行星减速器型号	Planetary gearbox type	C61111 (i=226.3)

液压原理图
Hydraulic principle diagram



企业证书 Company Certificate





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