

ini[®] 意宁液压 INI HYDRAULIC



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



2015 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 21 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、渔机、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 21 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
1# Metalworking Workshop



二号金工车间
2# Metalworking Workshop



三号金工车间
3# 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



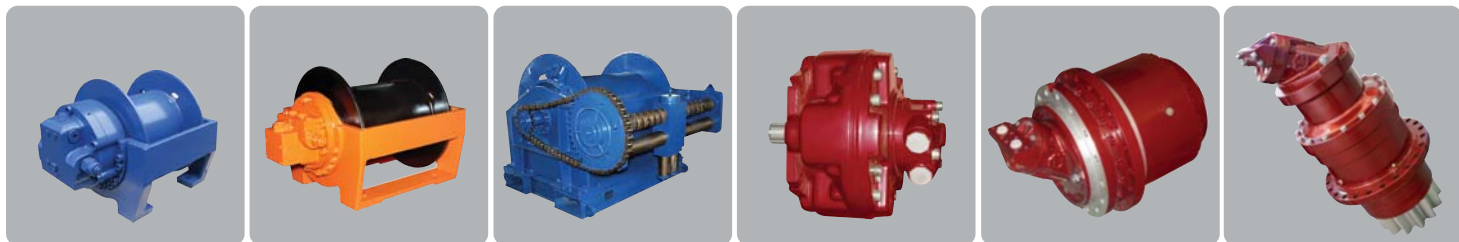
德国 / 日本进口双主轴车铣复合加工中心
Double-spindle turning & milling & boring machining center imported from Germany and Japan



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

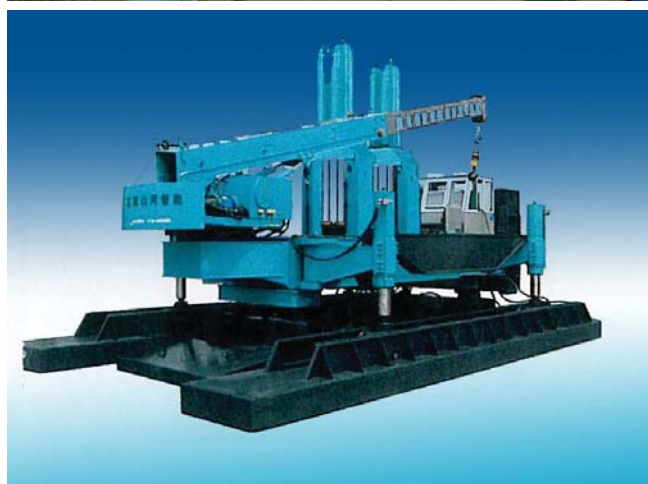
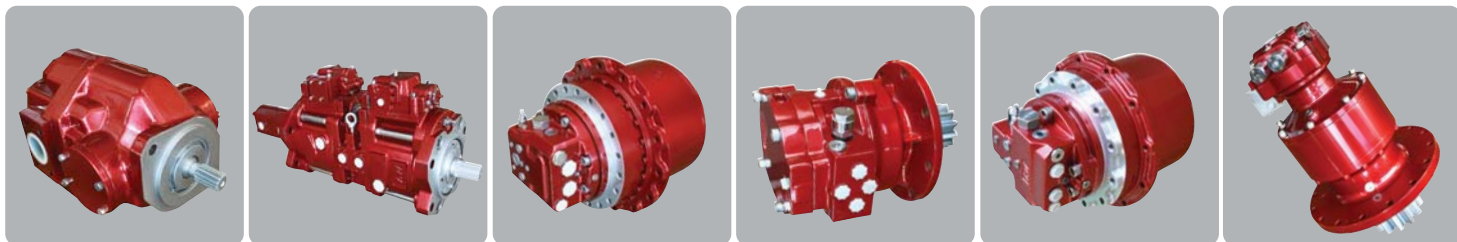


意
宁
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压
INI HYDRAULIC



产品展示 & 应用

Product Shows & Applications



产品展示 & 应用

Product Shows & Applications

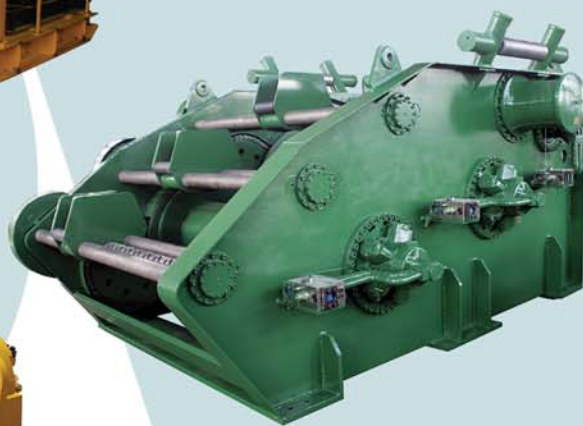


产品展示 & 应用

Product Shows & Applications



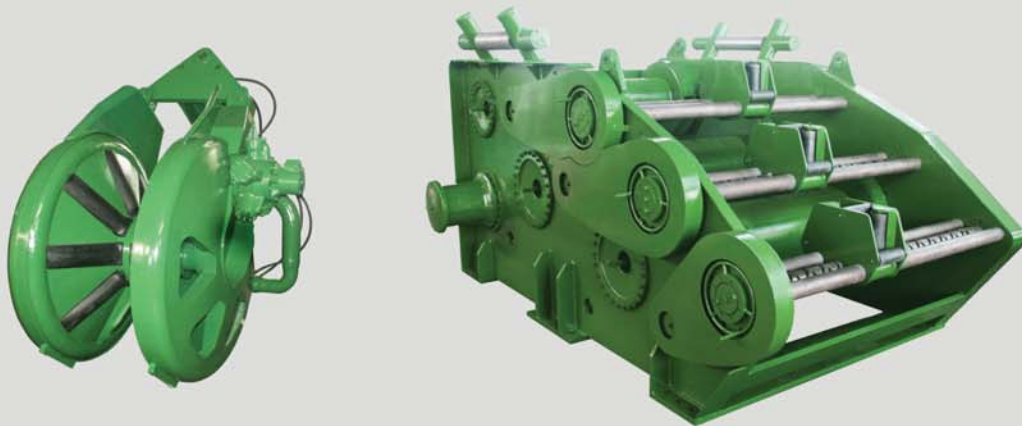
意宁液压
INI HYDRAULIC



产品展示 & 应用

Product Shows & Applications

出口印尼的金枪鱼围网捕鱼船多卷筒绞车和动力滑车



产品展示 & 应用

Product Shows & Applications

为荷兰港口定制1600吨电动海洋浮吊绞车



产品展示 & 应用

Product Shows & Applications

为英国石油（BP）公司顶级海上石油平台配套专用液压绞车



为上海、天津、常州“城市摩天轮”配套行星齿轮箱



产品展示 & 应用

Product Shows & Applications

国内首台 150 吨“恒张力拖曳绞车”出口俄罗斯



国内吊管机绞车配套率 95% 以上



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Section 1: hydraulic transmission drive
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Section 2: winch

2015 版:

-
- ① 第三册: 液压泵、液压马达、液压系统、泵站 共 159 页 total 159 pages
Section 1: hydraulic pump, hydraulic motor, hydraulic system, hydraulic power pack
 - ② 第四册: 行星减速机(含液压制动器) 共 71 页 total 71 pages
Section 3: planetary gearbox (with hydraulic brake)

2013 版:

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

第三册: 液压泵、液压马达、液压系统、泵站 Section 3: hydraulic pump, hydraulic motor, hydraulic system, hydraulic power pack

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I3V 系列变量柱塞泵

1、概述

I3V 系列柱塞泵是斜盘式轴向柱塞变量泵，该产品采用本公司多年的设计经验及先进的加工手段，并在严格的质量管理体系下监制的，有效地保证了高的承载能力和运行的可靠性。

2、特性

I3V 系列泵是高压、高效率斜盘式柱塞泵，该泵主要有以下几个特点：

(1) 高功率密度

由于采用半圆柱形的斜盘，实现了产品的高压化和小型轻量化，增加了功率密度，而且串联型变量双泵设有辅助齿轮泵，实现了传动效率的提高和整体的小型轻量化。

(2) 高效率，高自吸能力

通过采用球面配流盘和最佳液压平衡设计，使转子组件运转稳定可靠，在低压及低速工作条件下也能获得很高的效率。

(3) 长寿命、低噪音

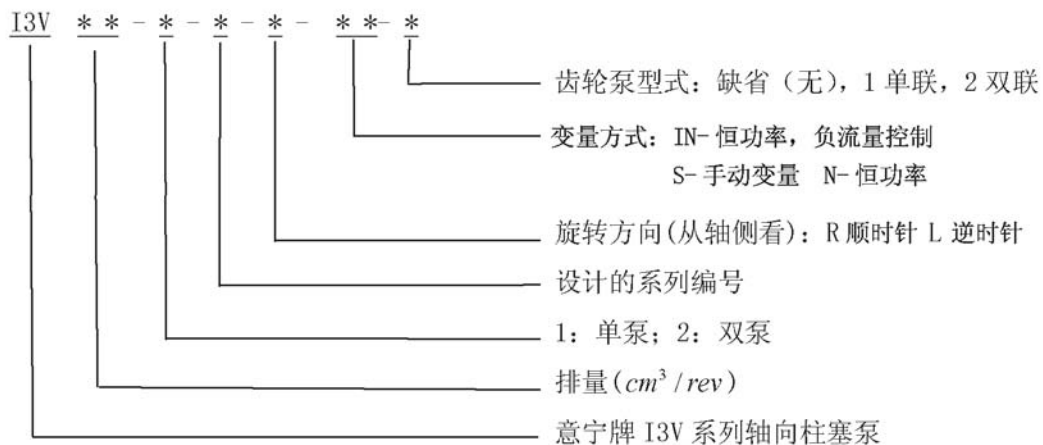
由于采用可承受高负荷的主轴承、以及柱塞回程机构可补偿滑靴磨损，高负荷轴承和转子组件采用特殊耐磨材料，使产品具有长寿命及高可靠性。刚性连接及配流设计改善并实现了低噪音。

(4) 多种变量控制方式

可以采用机械、液压、电器作为输入动力的各种控制方式。

顺应时代发展要求，我公司在多年的丰富设计经验和实践基础上，进一步提高功率密度、效率、可靠性，追求最优的功能设计，研制出了 I3V 系列斜盘式轴向柱塞泵，该产品被广泛用于工程机械、起重运输机械、建筑机械以及机床、船舶、矿山、冶金等各类机械领域。

3、型号说明



I3V Series Pump

1. Brief Introduction

I3V series pump is swash plate type axial piston pump . I3V Series Pump are designed on the basis of our profound knowledge and long experience , and manufactured under the strict quality control system , thus ensuring I3V series has high efficiency and high reliability .

2. Features

I3V series pump have features as follows:

1 . High Power Density

By a half log type swash plate, a lighter and more compact machine with higher pressure rating and increased power density was obtained .

2 . High Efficiency and Large Self-Priming Capability

The spherical valve plate and improved hydraulic balance provide stable cylinder rotation, thus achieving high efficiency even in a low pressure and low speed operating range.

3. Long Life and Low Noise

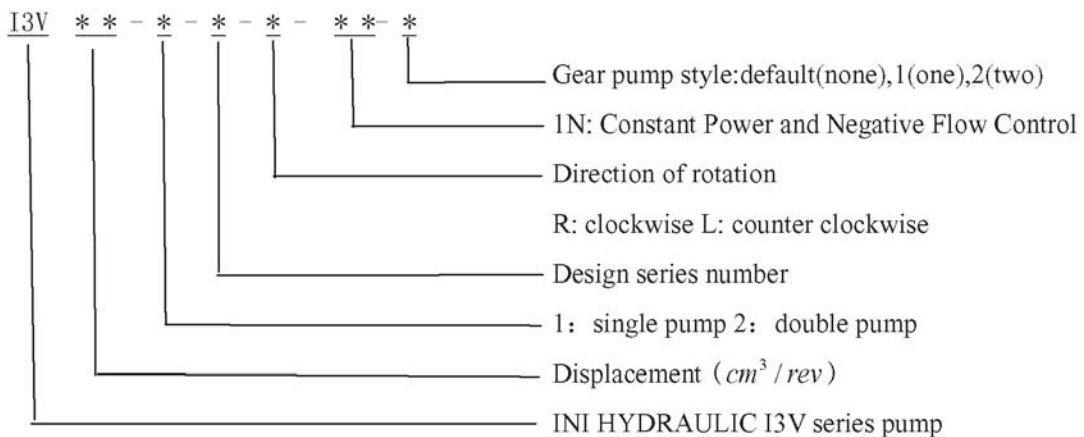
A long life is obtained by adopting main bearings of large capacity and the piston return mechanism that compensates for the wear of the shoes. Even less noise has been achieved because of the optimum design of the valve plate and the casing rigidity.

4 . Nice control performance

The tilting angle control of the swash plate is conducted by the hydraulic pressure piston which composes the pilot and the servo mechanism .

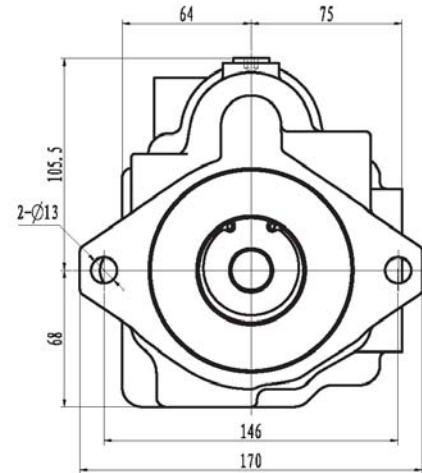
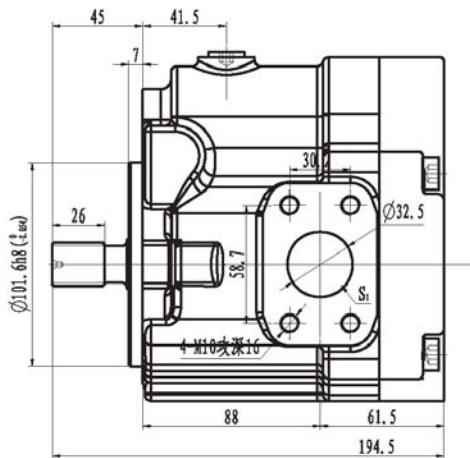
I3V series pump has optimum function design and is provided with further improved power density, efficiency, and reliability, based upon our long and rich experience. I3V series pump are utilized world-wide to provide the power source for hydraulic excavators cranes, construction machines, car carrier and many other special purpose vehicles.

3. Model Options

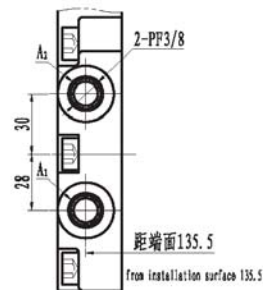


外形尺寸

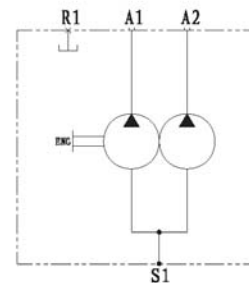
Dimensions



出口尺寸 delivery port



液压原理图 Hydraulic Principle



外花键输入参数

Dimensions of shaft end

型号 type	齿数 no. of teeth	径节 diametral pitch	压力角 pressure angle	齿顶圆直径 major diameter	齿根圆直径 base diameter	跨棒距 min measurement over two pins	量棒直径 pin diameter	花键标准 involute spline rule
I3V2-10S	13	16/32	30°	$\phi 21.8_{-0.13}^0$	$\phi 18.16_{-0.11}^0$	24.94	3.048	ANSI B92.1-1970

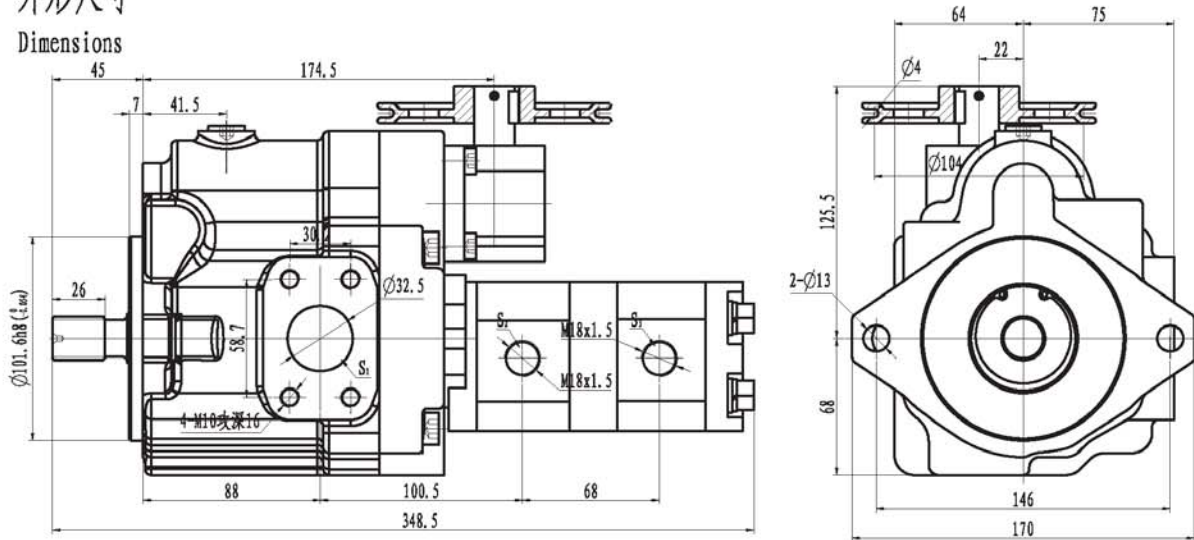
主要性能参数

Main Specifications

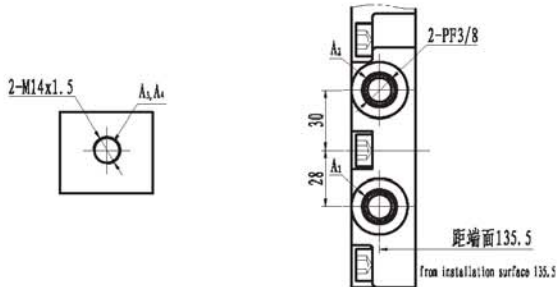
型号 pump size	排量 (mL/r) displacement	压力 pressure (MPa)		转速 speed (r/min)		转向 direction of rotation	适用机重 (Ton) Applicable Vehicle Mass (Ton)	
		额定 rated	最高 peak	额定 rated	最高 peak			
I3V2-10S	2x10	20	23	2300	2500	从轴端看逆时针 counter clockwise (viewed from shaft end)	L	2
I3V1-20S	20							

外形尺寸

Dimensions

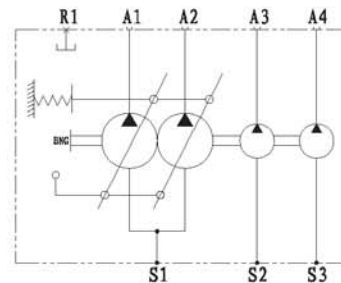


出口口尺寸 delivery port



液压原理图

Hydraulic Principle



外花键输入参数

Dimensions of shaft end

型号 type	齿数 no. of teeth	径节 diametral pitch	压力角 pressure angle	齿顶圆直径 major diameter	齿根圆直径 base diameter	跨棒距 min measurement over two pins	量棒直径 pin diameter	花键标准 involute spline rule
I3V2-10S	13	16/32	30°	$\phi 21.8_{-0.13}^0$	$\phi 18.16_{-0.11}^0$	24.94	3.048	ANSI B92.1-1970

主要性能参数

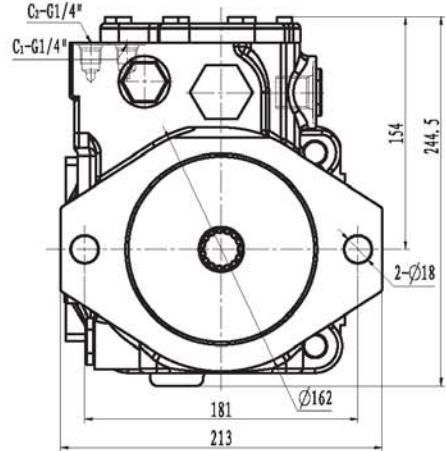
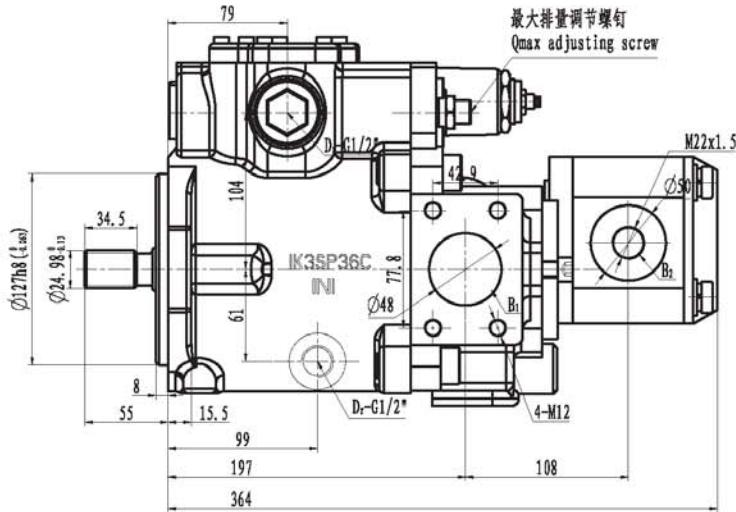
Main Specifications

型号 pump size	排量 (mL/r) displacement	压力 pressure (MPa)		转速 speed (r/min)		辅助泵排量 (mL/r) gear pump displacement		辅助泵压力 (MPa) gear pump pressure		辅助泵转速 (r/min) gear pump speed			转向 direction of rotation	适用机重 (Ton) Applicable Vehicle Mass (Ton)
		额定 rated	最高 peak	额定 rated	最高 peak	前泵 front	后泵 rear	额定 rated	最高 peak	最低 min	额定 rated	最高 peak		
I3V2-10S	2x10	20	23	2300	2500	4	4	16	20	300	2000	3000	从轴端看逆时针 counter clockwise (viewed from shaft end)	2
I3V1-20S														

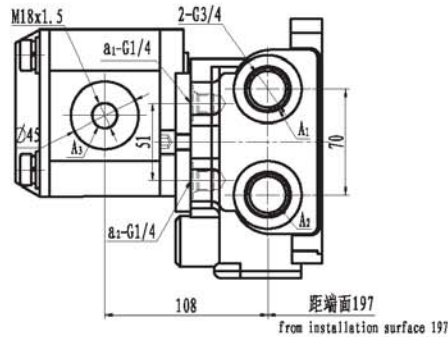
注: (1) 配套齿轮泵可根据用户需求做出更改。

NT0B: (1) gear pump style can be change according to customer's need.

外形尺寸 Dimensions

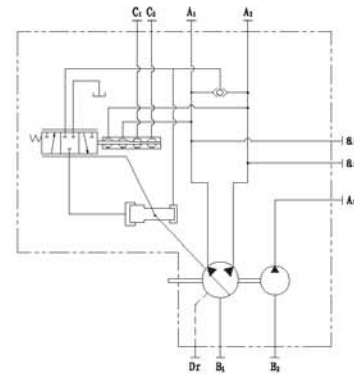


出油口尺寸 delivery port



液压原理图

Hydraulic Principle



外花键输入参数

Dimensions of shaft end

型号 type	齿数 no. of teeth	径节 diametral pitch	压力角 pressure angle	齿顶圆直径 major diameter	齿根圆直径 base diameter	跨棒距 min measurement over two pins	量棒直径 pin diameter	花键标准 involute spline rule
I3V2-36N	15	16/32	30°	φ24.98 ⁰ _{-0.13}	φ21.5 ⁰ _{-0.13}	28.228	3.048	ANSI B92.1-1970

主要性能参数

Main Specifications

型号 pump size	排量 (mL/r) displacement	压力 pressure (MPa)		转速 speed (r/min)		辅助泵排量 (mL/r) gear pump displacement		辅助泵压力 (MPa) gear pump pressure		辅助泵转速 (r/min) gear pump speed		转向 direction of rotation	适用机重 (Ton) Applicable Vehicle Mass (Ton)
		额定 rated	最高 peak	额定 rated	最高 peak	额定 rated	最高 peak	最低 min	额定 rated	最高 peak			
I3V2-36N	2x36	29.4	31.4	2000	2300	10, 12.5, 14	20	25	400	2500	3000	从轴端看顺时针 clockwise (viewed from shaft end)	8
						16, 19.2, 20							
						23, 25, 26.5							
						30, 32							

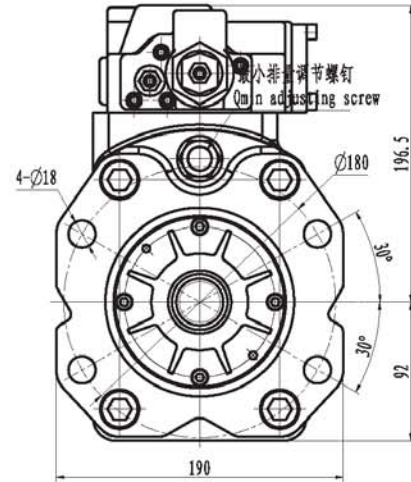
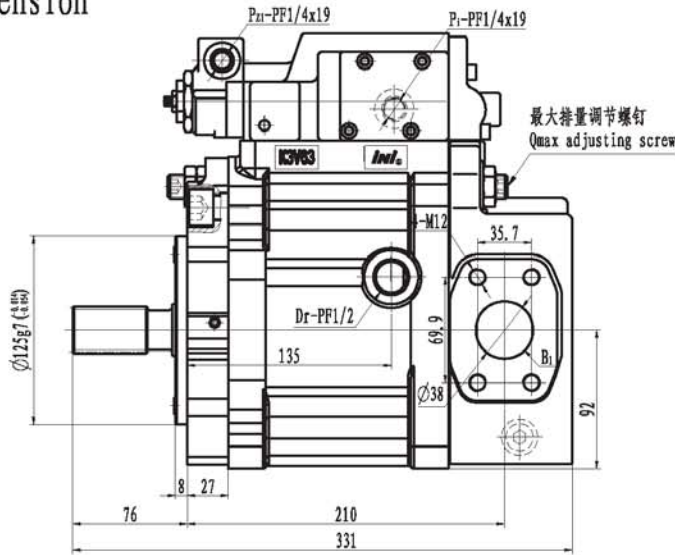
注: (1) 主泵排量可变, 最大排量可根据用户需求设定。

(2) 配套齿轮泵可根据用户需求做出更改。

NTOE: (1) main pump displacement is variable, it can be set according to customer's need.

(2) gear pump style can be change according to customer's need.

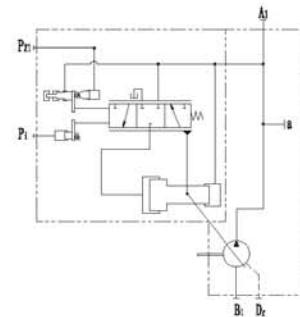
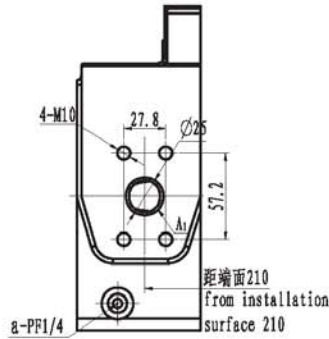
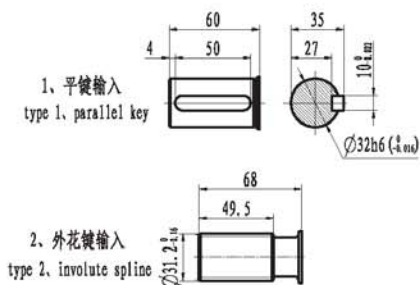
外形尺寸 Dimension



输入型式
Type of shaft end

出口尺寸
delivery port

液压原理图
Hydraulic Principle



渐开线外花键输入参数

Dimensions of involute spline shaft end

型号 type	齿数 no. of teeth	径节 diametral pitch	压力角 pressure angle	齿顶圆直径 major diameter	齿根圆直径 base diameter	跨棒距 min measurement over two pins	量棒直径 pin diameter	花键标准 involute spline rule
I3V63-1IN	14	12/24	30°	Φ31.2 ^{+0.16}	Φ27 ^{-0.16}	34.406	3.6	ANSI B92.1-1970

主要性能参数

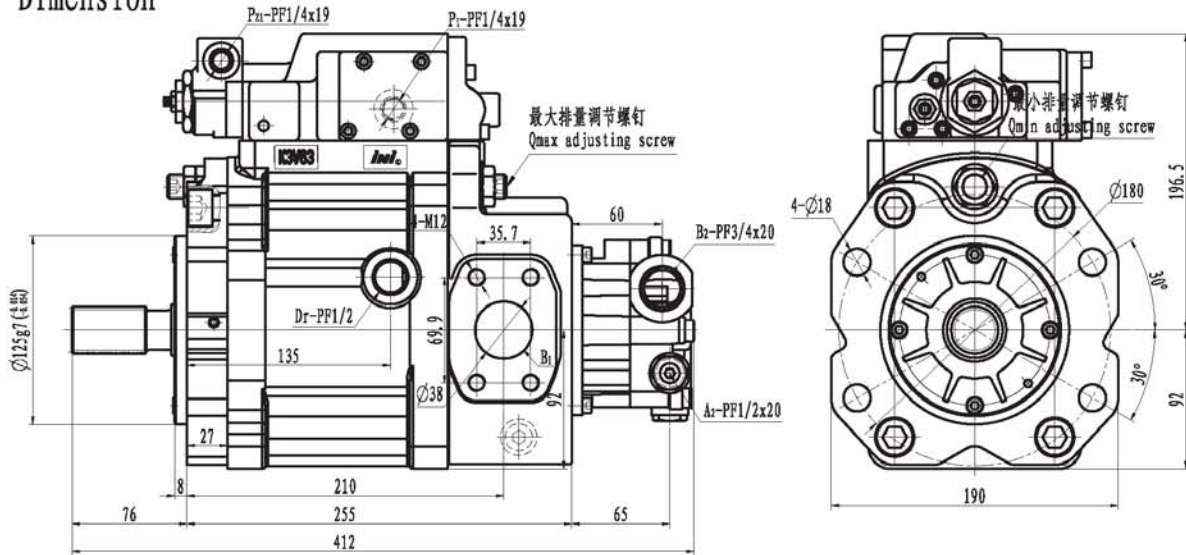
Main Specifications

型号 pump size	排量(ml/r) displacement	压力 pressure (MPa)		最高转速 peak speed (r/min)		转向 direction of rotation 从轴端看顺时针(或逆时针) clockwise or counter clockwise (viewed from shaft end)	适用机重(Ton) Applicable Vehicle Mass (Ton)
		额定 rated	最高 peak	自吸最高 max self priming	最高 peak		
I3V63-1IN	63	31.4	34.3	2650	3250	12 ~ 15	

注：主泵排量在20~63范围内可变，最大排量可根据用户需求设定。

NT0B: main pump displacement is variable, it can be set according to customer's need.

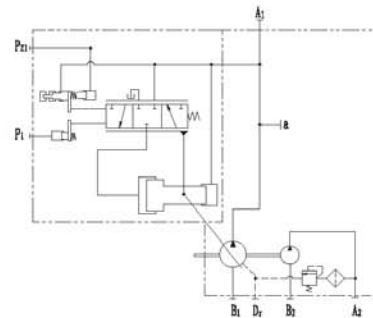
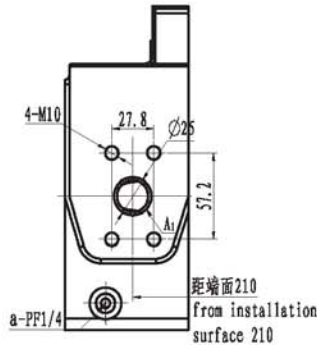
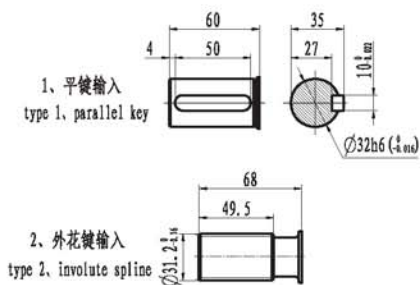
外形尺寸 Dimension



输入型式
Type of shaft end

出口尺寸
delivery port

液压原理图
Hydraulic Principle



渐开线外花键输入参数

Dimensions of involute spline shaft end

型号 type	齿数 no. of teeth	径节 diametral pitch	压力角 pressure angle	齿顶圆直径 major diameter	齿根圆直径 base diameter	跨棒距 min measurement over two pins	量棒直径 pin diameter	花键标准 involute spline rule
I3V63-1IN	14	12/24	30°	$\phi 31.2_{-0.16}^0$	$\phi 27_{-0.16}^0$	34.406	3.6	ANSI B92.1-1970

主要性能参数

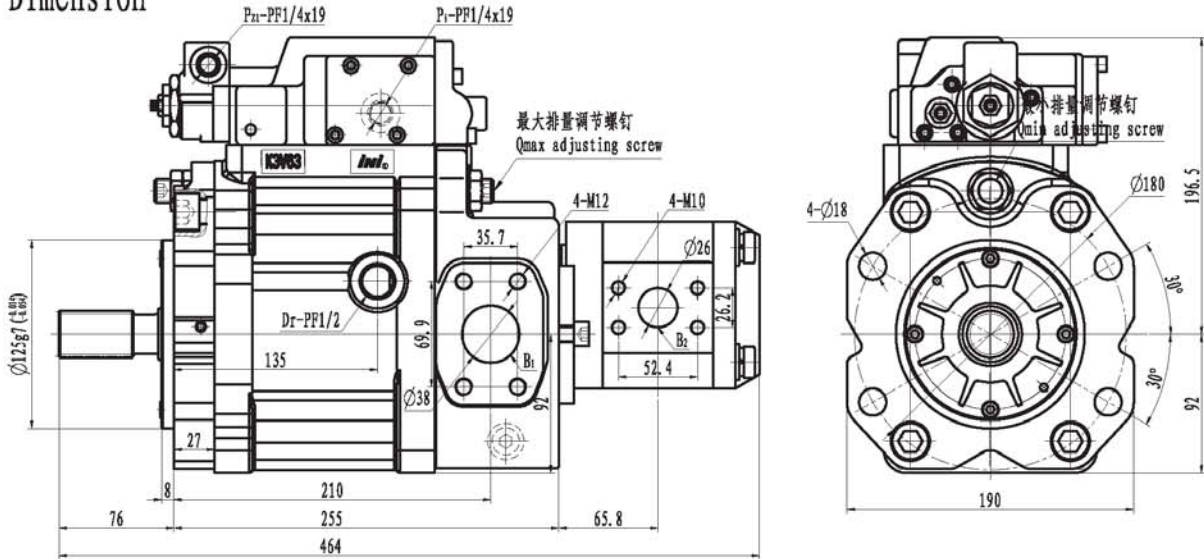
Main Specifications

型号 pump size	排量 (mL/r) displacement	压力 (MPa) pressure		最高转速 (r/min) peak speed		辅助泵排量 (mL/r) gear pump displacement		辅助泵额定压力 (MPa) gear pump rated pressure		辅助泵额定转速 (r/min) gear pump rated speed		转向 direction of rotation	适用机重 (Ton) Applicable Vehicle Mass (Ton)
		额定 rated	最高 peak	额定 rated	最高 peak	额定 rated	最高 peak	额定 rated	最高 peak	额定 rated	最高 peak		
I3V63-1IN	63	31.4	34.3	2650	3250	12	5	3250	从轴端看顺时针 clockwise (viewed from shaft end)	12 ~ 15			

注: 主系排量在20~63范围内可变, 最大排量可根据用户需求设定。

NT0B: main pump displacement is variable, it can be set according to customer's need.

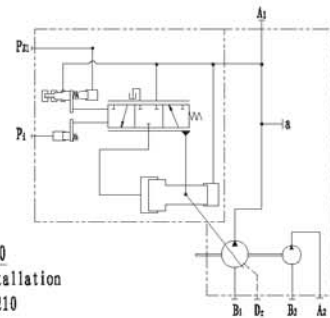
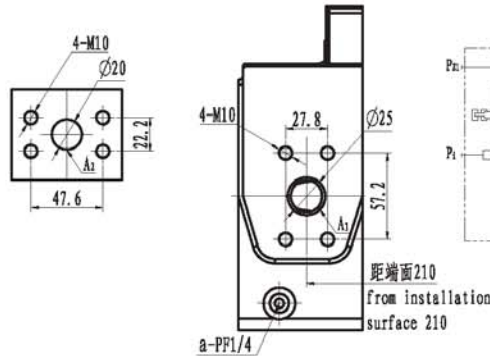
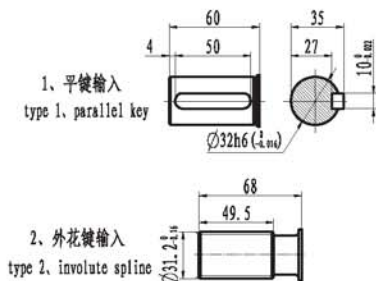
外形尺寸 Dimension



输入型式
Type of shaft end

出口尺寸
delivery port

液压原理图
Hydraulic Principle



渐开线外花键输入参数

Dimensions of involute spline shaft end

型号 type	齿数 no. of teeth	径节 diametral pitch	压力角 pressure angle	齿顶圆直径 major diameter	齿根圆直径 base diameter	跨棒距 min measurement over two pins	量棒直径 pin diameter	花键标准 involute spline rule
I3V63-1IN	14	12/24	30°	φ31.2 ⁰ _{-0.16}	φ27 ⁰ _{-0.16}	34.406	3.6	ANSI B92.1-1970

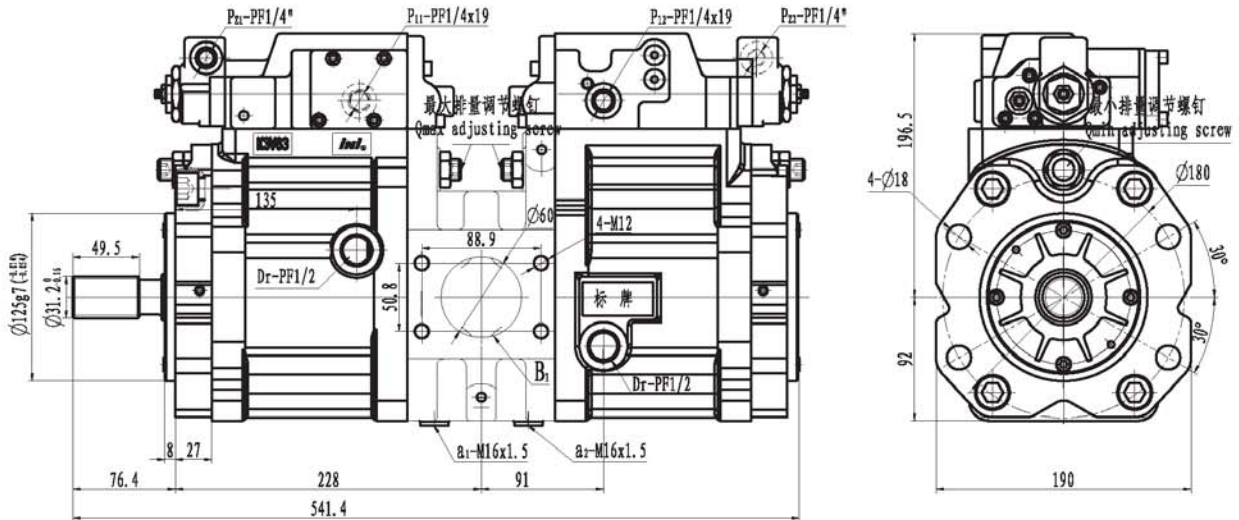
主要性能参数

Main Specifications

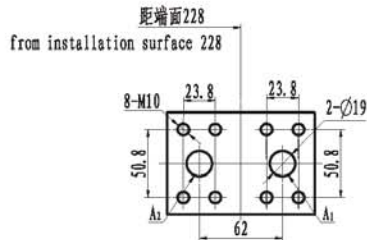
型号 pump size	排量(mL/r) displacement	压力 pressure (MPa)		最高转速 peak speed (r/min)		辅助泵排量 (mL/r)		辅助泵压力 (MPa)		辅助泵转速 (r/min)		转向 direction of rotation	适用机重 (Ton) Applicable Vehicle Mass (Ton)
		额定 rated	最高 peak	最高 max. peak	最高 peak	额定 rated	最高 peak	最低 min	额定 rated	最高 peak			
I3V63-1IN	63	31.4	34.3	2650	3250	10, 12.5, 14	20	25	400	2500	3000	从轴端看顺时针(流进时) clockwise or counter clockwise (viewed from shaft end)	12~15
						16, 19.2, 20							
						23, 25, 26.5							
						30, 32							

注: (1) 主泵排量在20~63范围内可变, 最大排量可根据用户需求设定, NTOB: (1) main pump displacement is variable, it can be set according to customer's need.
(2) 配套齿轮泵可根据用户需求做出更改。 (2) gear pump style can be change according to customer's need.

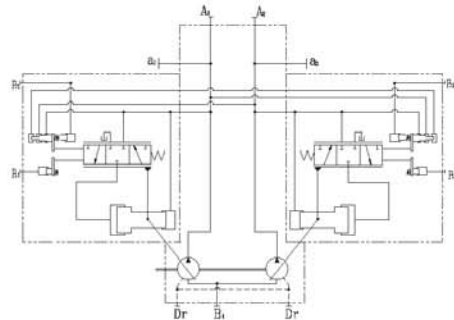
外形尺寸 Dimension



出油口尺寸 delivery port



液压原理图 Hydraulic Principle



外花键输入参数

Dimensions of shaft end

型号 type	齿数 no. of teeth	径节 diametral pitch	压力角 pressure angle	齿顶圆直径 major diameter	齿根圆直径 base diameter	跨棒距 min measurement over two pins	量棒直径 pin diameter	花键标准 involute spline rule
I3V63-2IN	14	12/24	30°	$\phi 31.2_{-0.16}^0$	$\phi 27_{-0.16}^0$	34.406	3.6	ANSI B92.1-1970

主要性能参数

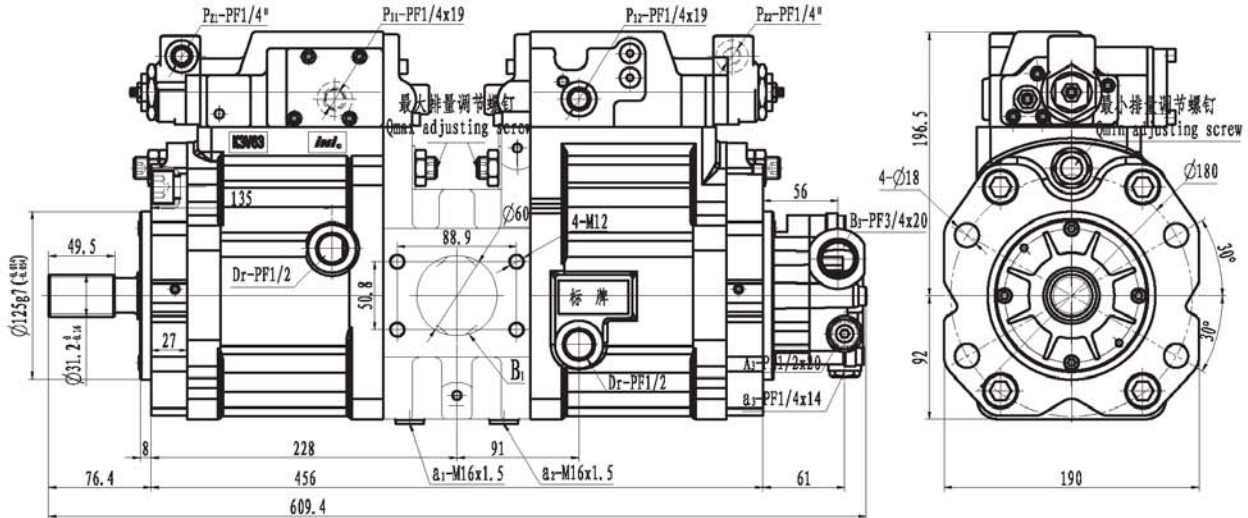
Main Specifications

型号 pump size	排量(mL/r) displacement	压力 pressure (MPa)		最高转速 peak speed (r/min)		转向 direction of rotation	适用机重(Ton) Applicable Vehicle Mass (Ton)
		额定 rated	最高 peak	自吸最高 max self priming	最高 peak		
I3V63-2IN	2x63	31.4	34.3	2650	3250	从轴端看顺时针 clockwise (viewed from shaft end)	12~15

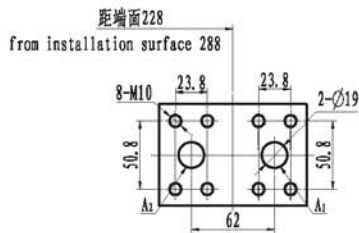
注: 主泵排量在20~63范围内可变, 最大排量可根据用户需求设定。

NOTE: main pump displacement is variable, it can be set according to customer's need.

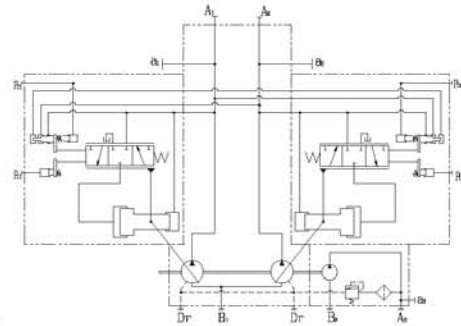
外形尺寸
Dimension



出口尺寸
delivery port



液压原理图
Hydraulic Principle



外花键输入参数

Dimensions of shaft end

型号 type	齿数 no. of teeth	径节 diametral pitch	压力角 pressure angle	齿顶圆直径 major diameter	齿根圆直径 base diameter	跨棒距 min measurement over two pins	量棒直径 pin diameter	花键标准 involute spline rule
I3V63-2IN	14	12/24	30°	∅31.2 _{-0.16}	∅27 _{-0.16}	34.406	3.6	ANSI B92.1-1970

主要性能参数

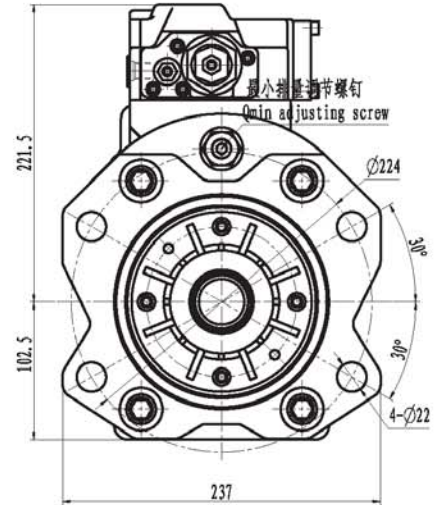
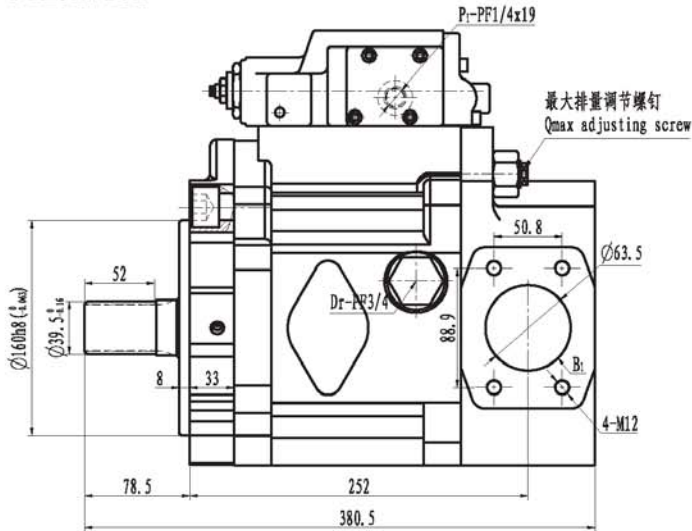
Main Specifications

型号 pump size	排量 (mL/r) displacement	压力 pressure (MPa)		最高转速 peak speed (r/min)		辅助泵排量 (mL/r) gear pump displacement	辅助泵额定压力 (MPa) gear pump rated pressure	辅助泵额定转速 (r/min) gear pump rated speed	转向 direction of rotation	适用机重 (Ton) Applicable Vehicle Mass (Ton)
		额定 rated	最高 peak	额定 rated	最高 peak					
I3V63-2IN	2x63	31.4	34.3	2650	3250	12	5	3250	从轴端看顺时针 clockwise (viewed from shaft end)	12~15

注: 主泵排量在20~63范围内可变, 最大排量可根据用户需求设定。

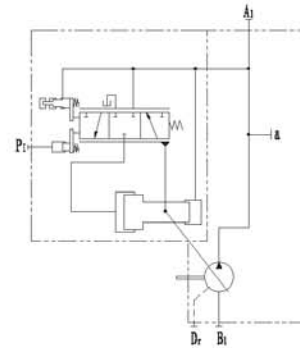
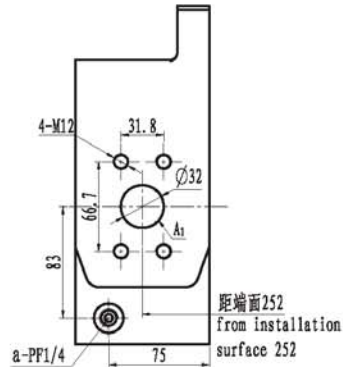
NOTE: main pump displacement is variable, it can be set according to customer's need.

外形尺寸 Dimension



出油口尺寸
delivery port

液压原理图
Hydraulic Principle



外花键输入参数
Dimensions of shaft end

型号 type	齿数 no. of teeth	模数 module	压力角 pressure angle	齿顶圆直径 major diameter	齿根圆直径 minor diameter	公法线长度 base tangent length	跨测齿数 Number of teeth spanned for base tangent length	花键标准 involute spline rule
I3V112-1IN	14	2.5	20°	$\phi 39.5^{+0.16}$	$\phi 34^{+0.16}$	$20.309^{+0.053}_{-0.118}$	3	JIS D 2001

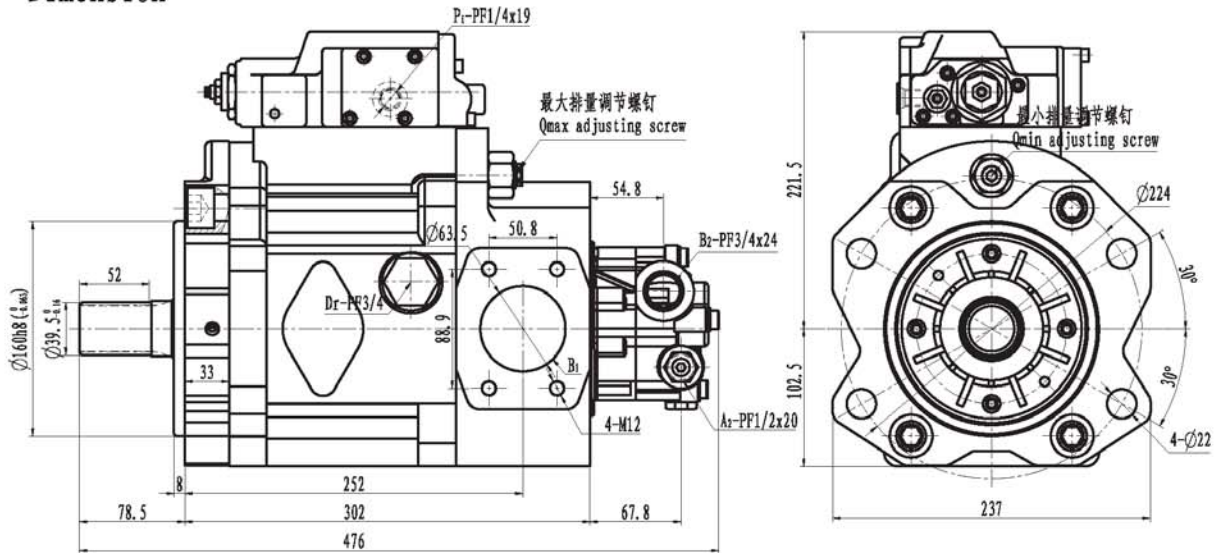
主要性能参数
Main Specifications

型号 pump size	排量 (mL/r) displacement	压力 pressure (MPa)		最高转速 peak speed (r/min)		转向 direction of rotation 从轴端看顺时针(或逆时针) clockwise or counter clockwise (viewed from shaft end)	适用机重 (Ton) Applicable Vehicle Mass (Ton)
		额定 rated	最高 peak	自吸最高 max self priming	最高 peak		
I3V112-1IN	112	31.4	34.3	2360	2700		25

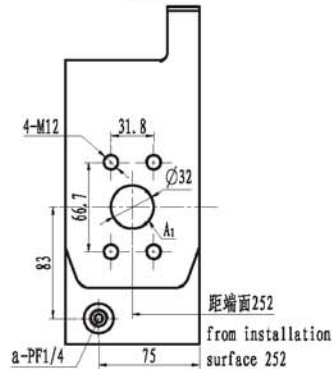
注: 主泵排量在20~116范围内可变, 最大排量可根据用户需求设定。

NOTE: main pump displacement is variable, it can be set according to customer's need.

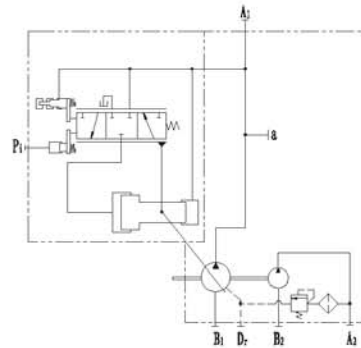
外形尺寸 Dimension



出口尺寸 delivery port



液压原理图 Hydraulic Principle



外花键输入参数 Dimensions of shaft end

型号 type	齿数 no. of teeth	模数 module	压力角 pressure angle	齿顶圆直径 major diameter	齿根圆直径 minor diameter	公法线长度 base tangent length	跨测齿数 Number of teeth spanned for base tangent length	花键标准 involute spline rule
I3V112-1IN	14	2.5	20°	$\phi 39.5^{+0.16}$	$\phi 34^{+0.16}$	20.309 $^{+0.051}_{-0.118}$	3	JIS D 2001

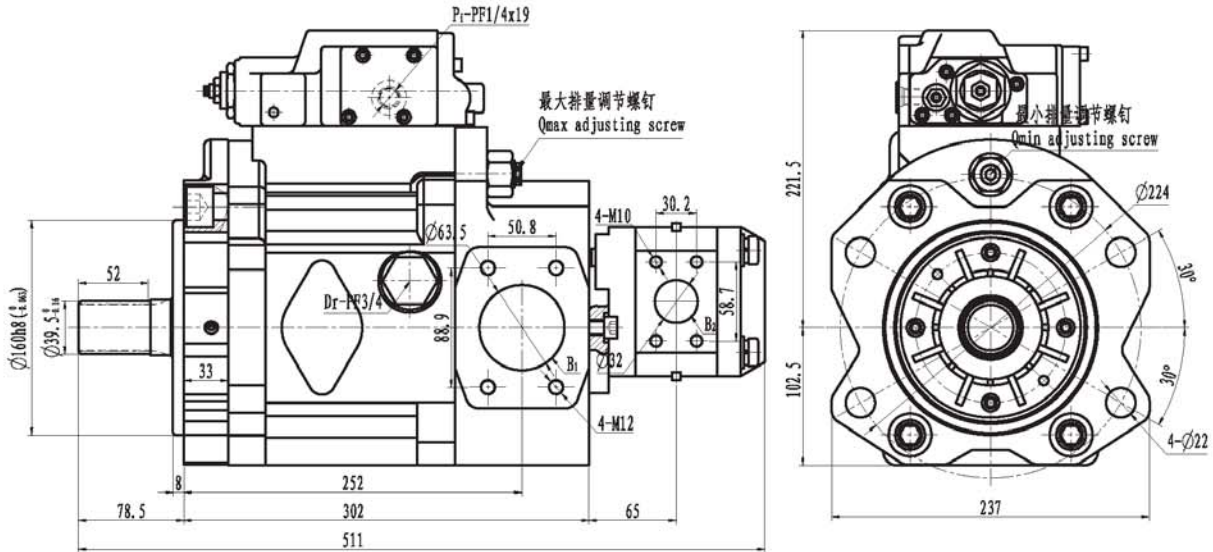
主要性能参数 Main Specifications

型号 pump size	排量 (mL/r) displacement:	压力 pressure (MPa)		最高转速 peak speed (r/min)		辅助泵排量 (mL/r) gear pump displacement:		辅助泵额定压力 (MPa) gear pump rated pressure:		辅助泵额定转速 (r/min) gear pump rated speed:		转向 direction of rotation	适用机重 (Ton) Applicable Vehicle Mass (Ton)
		额定 rated	最高 peak	额定 rated	最高 peak	额定 rated	最高 peak	额定 rated	最高 peak				
I3V112-1IN	112	31.4	34.3	2360	2700	15	5	2500				从轴端看顺时针 clockwise (viewed from shaft end)	25

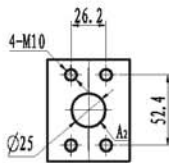
注: 主泵排量在20~116范围内可变, 最大排量可根据用户需求设定。

NOTE: main pump displacement is variable, it can be set according to customer's need.

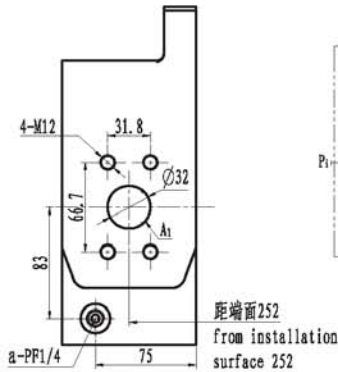
外形尺寸
Dimension



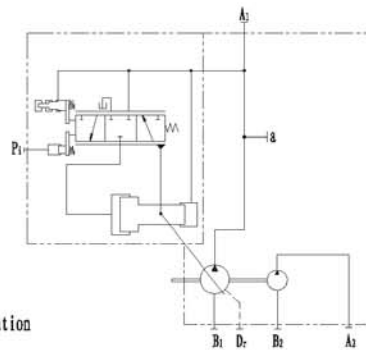
辅泵出口尺寸
gear pump delivery port



出油口尺寸
delivery port



液压原理图
Hydraulic Principle



外花键输入参数
Dimensions of shaft end

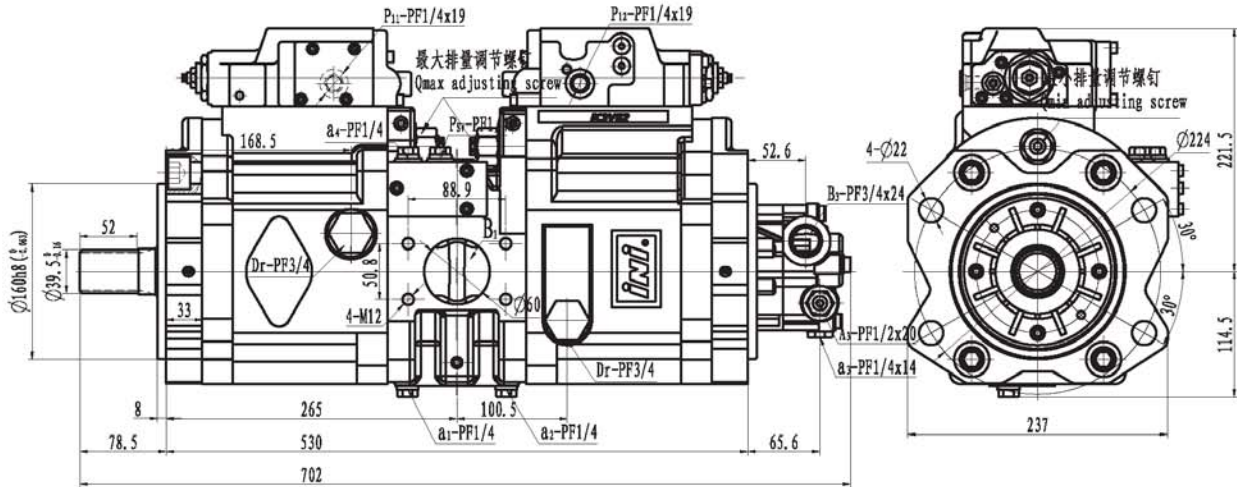
型号 type	齿数 no. of teeth	模数 module	压力角 pressure angle	齿顶圆直径 major diameter	齿根圆直径 minor diameter	公法线长度 base tangent length	跨测齿数 Number of teeth spanned for base tangent length	花键标准 involute spline rule
I3V112-1IN	14	2.5	20°	∅39.5 ⁰ _{-0.16}	∅34 ⁰ _{-0.16}	20.309 ^{-0.052} _{-0.118}	3	JIS D 2001

主要性能参数
Main Specifications

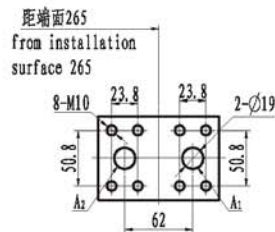
型号 pump size	排量(ml/r) displacement	压力 pressure (MPa)		最高转速 peak speed (r/min)		辅助泵排量 (ml/r)		辅助泵压力 (MPa)		辅助泵转速 (r/min)		转向 direction of rotation	适用机重 (Ton) Applicable Vehicle Mass (Ton)
		额定 rated	最高 peak	额定 rated	最高 peak	额定 rated	最高 peak	最低 min	额定 rated	最高 peak			
I3V112-1IN	112	31.4	34.3	2360	2700	27	25	30	400	2500	3000	从轴端看顺时针(或逆时针) clockwise or counter clockwise (viewed from shaft end)	25
						32							
						36							
						40	20	25					
						44							

注: (1) 主泵排量在20~112范围内可变, 最大排量可根据用户需求设定。 NTOB: (1) main pump displacement is variable, it can be set according to customer's need.
(2) 配套齿轮泵可根据用户需求做出更改。 (2) gear pump style can be change according to customer's need.

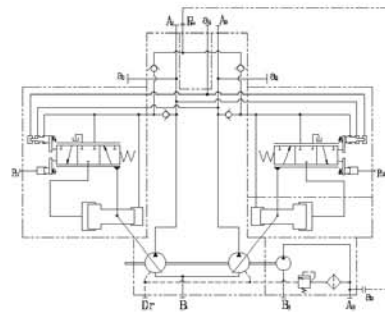
外形尺寸 Dimension



出油口尺寸 delivery port



液压原理图 Hydraulic Principle



外花键输入参数

Dimensions of shaft end

型号 type	齿数 no. of teeth	模数 module	压力角 pressure angle	齿顶圆直径 major diameter	齿根圆直径 minor diameter	公法线长度 base tangent length	跨测齿数 Number of teeth spanned for base tangent length	花键标准 involute spline rule
I3V112-2IN	14	2.5	20°	$\phi 39.5_{-0.16}^0$	$\phi 34_{-0.16}^0$	$20.309_{-0.118}^{+0.051}$	3	JIS D 2001

主要性能参数

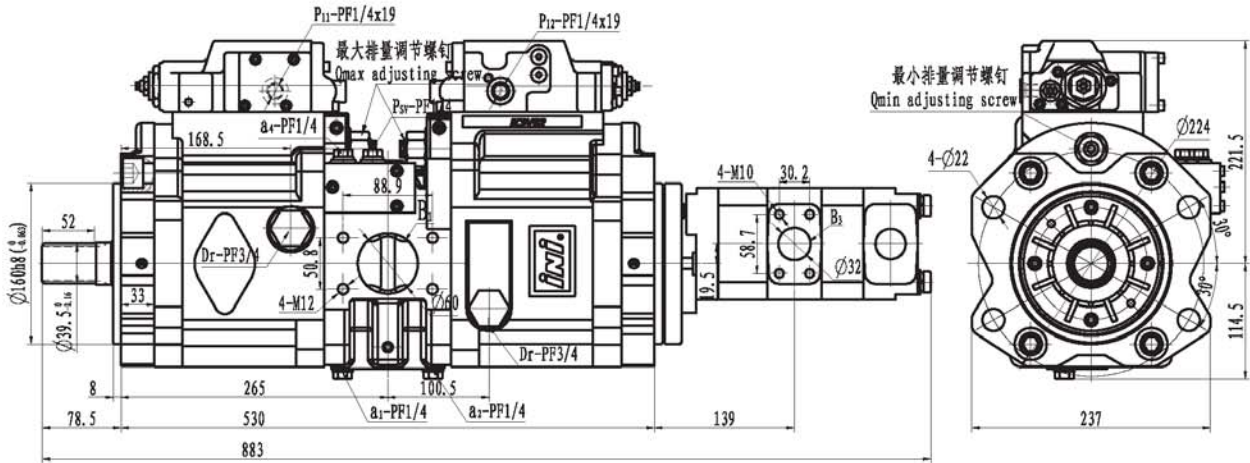
Main Specifications

型号 pump size	排量 (mL/r) displacement	压力 (MPa) pressure		最高转速 (r/min) peak speed		辅助泵排量 (mL/r) gear pump displacement	辅助泵额定压力 (MPa) gear pump rated pressure	辅助泵额定转速 (r/min) gear pump rated speed	转向 direction of rotation	适用机重 (Ton) Applicable Vehicle Mass (Ton)
		额定 rated	最高 peak	额定 rated	最高 peak					
I3V112-2IN	2x112	31.4	34.3	2360	2700	15	5	2500	从轴端看顺时针 clockwise (viewed from shaft end)	25

注：主泵排量在20~116范围内可变，最大排量可根据用户需求设定。

NOTE: main pump displacement is variable, it can be set according to customer's need.

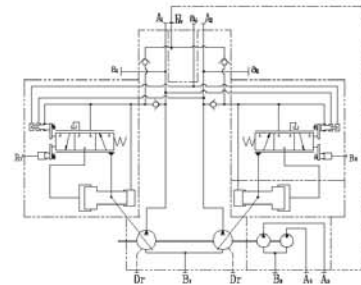
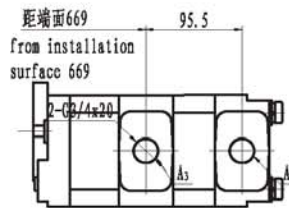
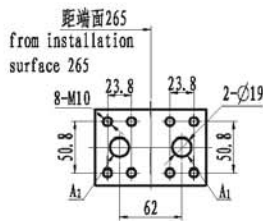
外形尺寸 Dimension



主泵出油口尺寸
main pump delivery port

辅泵出油口尺寸
gear pump delivery port

液压原理图
Hydraulic Principle



外花键输入参数

Dimensions of shaft end

型号 type	齿数 no. of teeth	模数 module	压力角 pressure angle	齿顶圆直径 major diameter	齿根圆直径 minor diameter	公法线长度 base tangential length	跨测齿数 Number of teeth spanned for base tangential length	花键标准 involute spline rule
I3V112-2IN	14	2.5	20°	φ39.5 ⁰ _{-0.16}	φ34 ⁰ _{-0.16}	20.309 ^{0-0.051} _{-0.118}	3	JIS D 2001

主要性能参数

Main Specifications

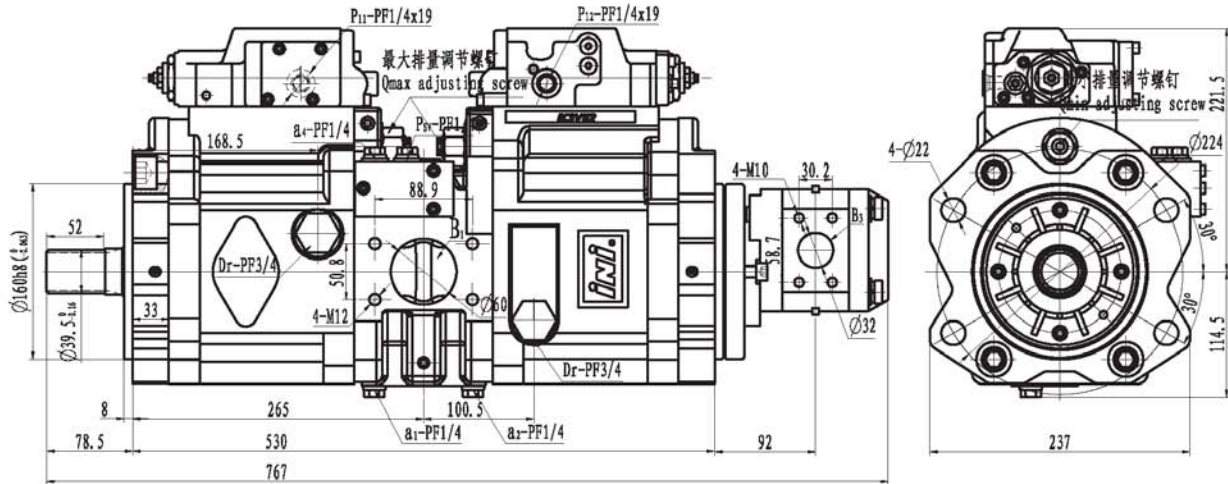
型号 pump size	排量 (ml/r) displacement	压力 pressure (MPa)		最高转速 peak speed (r/min)		辅助泵排量 (ml/r) gear pump displacement		辅助泵压力 (MPa) gear pump pressure		辅助泵转速 (r/min) gear pump speed			转向 direction of rotation	适用机重 (Ton) Applicable Vehicle Mass (Ton)
		额定 rated	最高 peak	额定 rated	最高 peak	前泵 front	后泵 rear	额定 rated	最高 peak	最低 min	额定 rated	最高 peak		
I3V112-2IN	2x112	31.4	34.3	2360	2700	32	25	25	28	600	2000	2500	从轴端看顺时针 clockwise (viewed from shaft end)	25
						32	32							
						40	20							
						40	32							

注: (1) 主泵排量在20~112范围内可变, 最大排量可根据用户需求设定。NTOB: (1) main pump displacement is variable, it can be set according to customer's need.

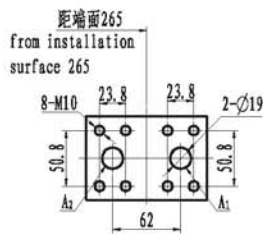
(2) 配套齿轮泵可根据用户需求做出更改。

(2) gear pump style can be change according to customer's need.

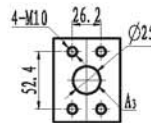
外形尺寸
Dimension



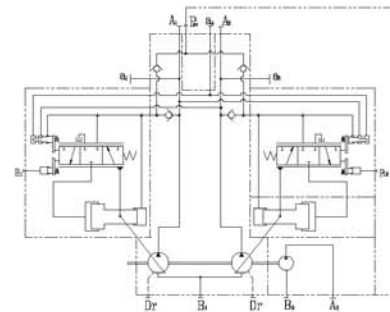
辅泵出口尺寸
gear pump delivery port



出口尺寸
delivery port



液压原理图
Hydraulic Principle



外花键输入参数

Dimensions of shaft end

型号 type	齿数 no. of teeth	模数 module	压力角 pressure angle	齿顶圆直径 major diameter	齿根圆直径 minor diameter	公法线长度 base tangential length	跨测齿数 Number of teeth spanned for base tangential length	花键标准 involute spline rule
I3V112-2IN	14	2.5	20°	Φ39.5 ⁰ _{-0.16}	Φ34 ⁰ _{-0.16}	20.309 ⁰ _{-0.018}	3	JIS D 2001

主要性能参数

Main Specifications

型号 pump size	排量 (mL/r) displacement	压力 pressure (MPa)		最高转速 peak speed (r/min)		辅助泵排量 (mL/r) gear pump displacement		辅助泵压力 (MPa) gear pump pressure		辅助泵转速 (r/min) gear pump speed		转向 direction of rotation	适用机重 (Ton) Applicable Vehicle Mass (Ton)
		额定 rated	最高 peak	最高 peak	最高 peak	最高 peak	最高 peak	最低 min	额定 rated	最高 peak			
I3V112-2IN 2x112	31.4	34.3	2360	2700	27	25	30	400	2500	3000	从轴端看顺时针 clockwise (viewed from shaft end)	25	
					32								
					36								
					40	20	25						
					44								

注: (1) 主泵排量在20~112范围内可变, 最大排量可根据用户需求设定。 NTOE: (1) main pump displacement is variable, it can be set according to customer's need.

(2) 配套齿轮泵可根据用户需求做出更改。

(2) gear pump style can be change according to customer's need.

IAP 系列定量柱塞泵

1、概述

IAP 系列定量柱塞泵是斜盘式轴向定量柱塞泵。该产品采用本公司多年的设计经验及先进的加工手段，并在严格的质量管理体系下监制的，有效地保证了高的承载能力和运行的可靠性。

2、特性

IAP 系列定量柱塞泵是在本公司多年的设计和生产经验下制作的高压、高效率斜盘式液压泵。该泵主要有以下几个特点：

(1) 高功率密度

由于采用固定斜盘，实现了产品的高压化和小型轻量化，增加了功率密度，而且可串联辅助齿轮泵，实现了传动效率的提高和整体的小型轻量化。

(2) 高效率，高自吸能力

通过采用球面配流盘和最佳液压平衡设计，使转子组件运转稳定可靠，在低压及低速工作条件下也能获得很高的效率。

(3) 长寿命

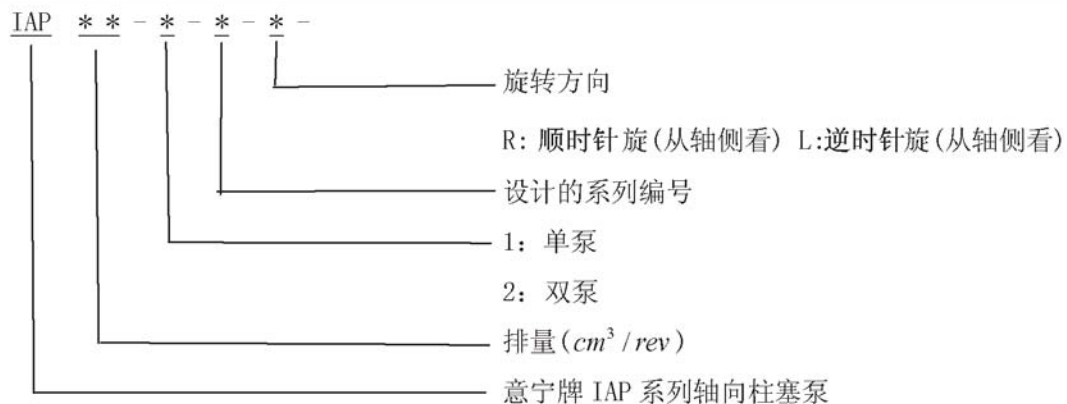
由于采用可承受高负荷的主轴承、以及柱塞回程机构可补偿滑靴磨损，高负荷轴承和转子组件采用特殊低耐磨材料，使产品具有长寿命及高可靠性。

(4) 低噪音

刚性连接及配流设计改善，实现了整体的低噪音化。

顺应时代发展要求，我公司在多年的丰富设计经验和实践基础上，进一步提高功率密度、效率、可靠性，追求最优的功能设计，研制出了 IAP 系列斜盘式轴向定量柱塞泵，该产品被广泛用于工程机械、起重运输机械、建筑机械以及机床、船舶、矿山、冶金等各类机械领域。

3、型号说明



IAP Series Pump

1. Brief Introduction

IAP series pump are swash plate type axial piston pump, and their displacement are fixed . IAP series pump are designed on the basis of our profound knowledge and long experience , and manufactured under the strict quality control system , thus ensuring IAP series has high efficiency and high reliability .

2. Features

IAP series pump have features as follows:

1 . High Power Density

By adopting a fixed swash plate , a lighter and more compact machine with higher pressure rating and increased power density was obtained . The pump can tandem arrangement a gear pump , has an increased transmission efficiency , and is lighter.

2 .High Efficiency and Large Self-Priming Capability

The spherical valve plate and improved hydraulic balance provide stable cylinder rotation, thus achieving high efficiency even in a low pressure and low speed operating range.

3. Long Life

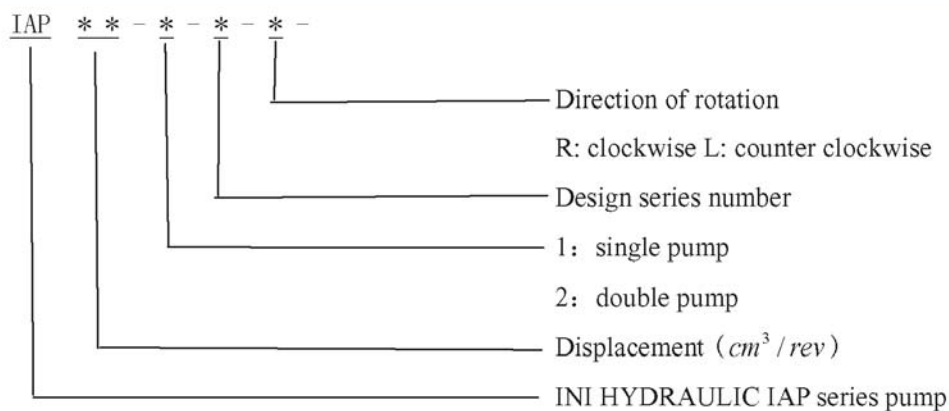
A long life is obtained by adopting main bearings of large capacity and the piston return mechanism that compensates for the wear of the shoes.

4. Low Noise

Even less noise has been achieved because of the optimum design of the valve plate and the casing rigidity.

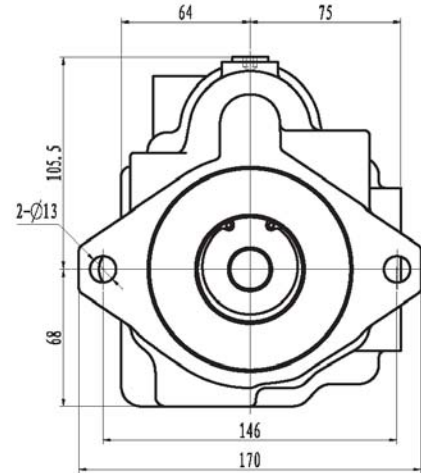
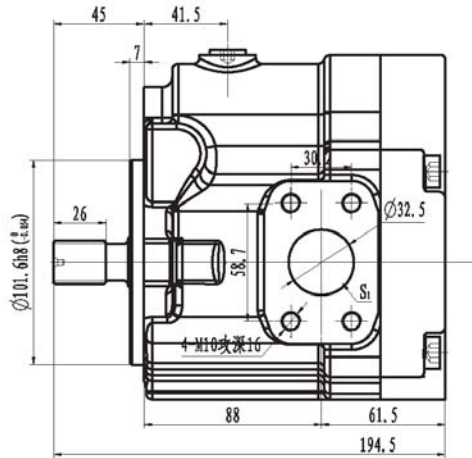
IAP series pump has optimum function design and is provided with further improved power density , efficiency, and reliability, based upon our long and rich experience, meeting the present day requirements . IAP series pump are utilized world-wide to provide the power source for hydraulic excavators , cranes , construction machines , car carrier and many other special purpose vehicles.

3. Model Options

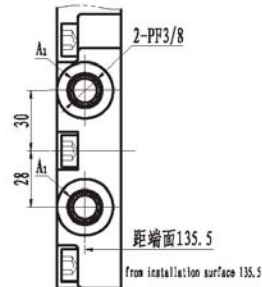


外形尺寸

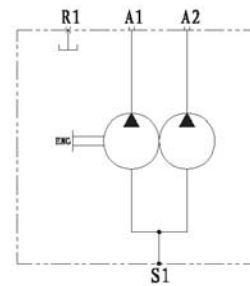
Dimensions



出油口尺寸 delivery port



液压原理图 Hydraulic Principle



外花键输入参数

Dimensions of shaft end

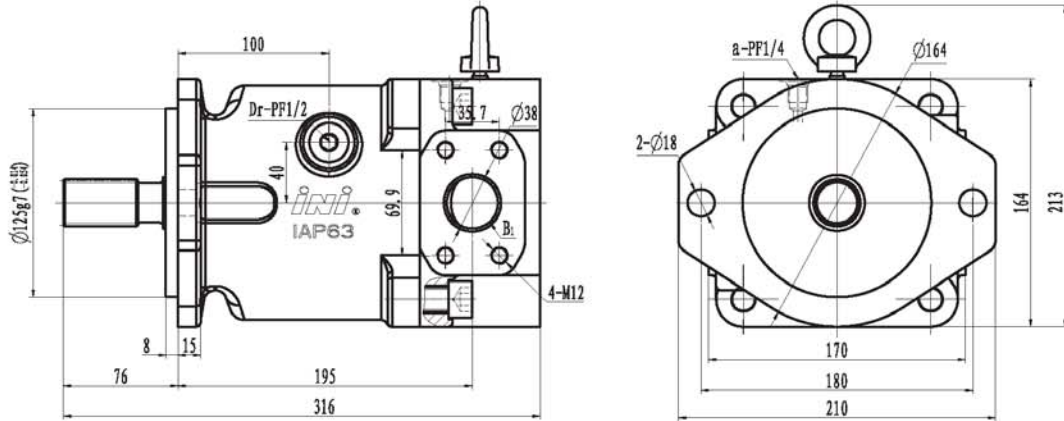
型号 type	齿数 no. of teeth	径节 diametral pitch	压力角 pressure angle	齿顶圆直径 major diameter	齿根圆直径 base diameter	跨棒距 min measurement over two pins	量棒直径 pin diameter	花键标准 involute spline rule
IAP10-2	13	16/32	30°	φ21.8 ^{+0.13}	φ18.16 ^{+0.11}	24.94	3.048	ANSI B92.1-1970

主要性能参数

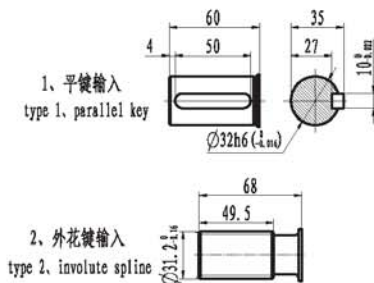
Main Specifications

型号 pump size	排量 (mL/r) displacement	压力 pressure (MPa)		转速 speed (r/min)		转向 direction of rotation	适用机重 (Ton) Applicable Vehicle Mass (Ton)
		额定 rated	最高 peak	额定 rated	最高 peak		
IAP10-2	2x10	20	23	2300	2500	从轴端看逆时针 counter clockwise (viewed from shaft end)	L 2

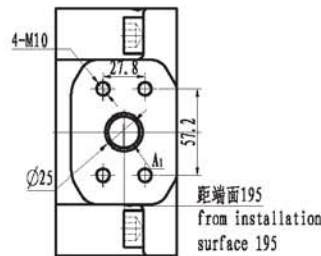
外形尺寸 Dimension



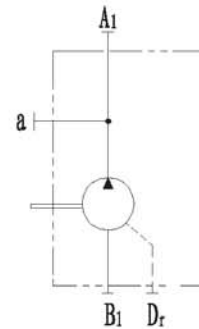
输入型式
Type of shaft end



出油口尺寸
delivery port



液压原理图
Hydraulic Principle



渐开线外花键输入参数

Dimensions of involute spline shaft end

型号 type	齿数 no. of teeth	径节 diametral pitch	压力角 pressure angle	齿顶圆直径 major diameter	齿根圆直径 base diameter	跨棒距 min measurement over two pins	量棒直径 pin diameter	花键标准 involute spline rule
IAP63-1	14	12/24	30°	φ31.2 _{-0.16}	φ27 _{-0.16}	34.406	3.6	ANSI B92.1-1970

主要性能参数

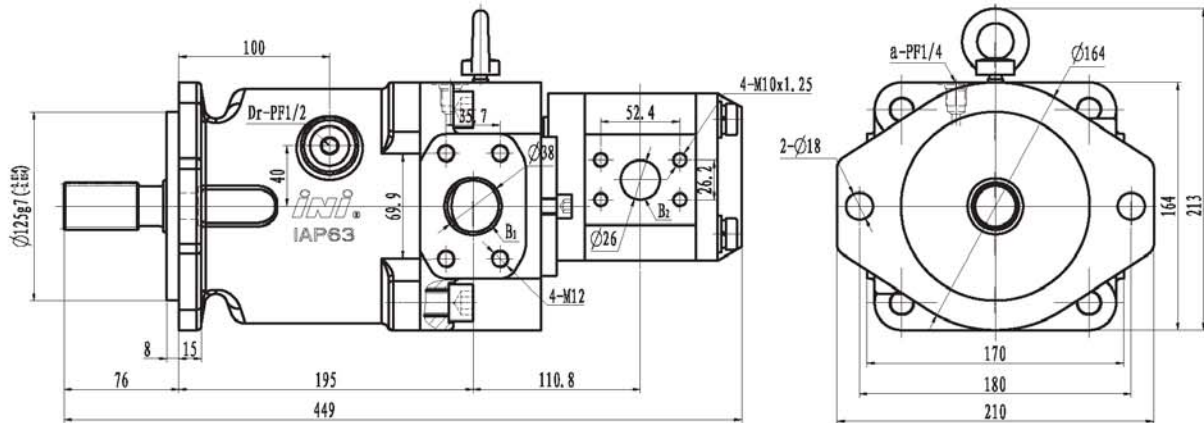
Main Specifications

型号 pump size	排量(ml/r) displacement	压力 pressure (MPa)		最高转速 peak speed (r/min)		转向 direction of rotation	适用机重(Ton) Applicable Vehicle Mass (Ton)
		额定 rated	最高 peak	自吸最高 max self priming	最高 peak		
IAP63-1	32	31.4	34.3	2650	3250	从轴端看顺时针(或逆时针) clockwise or counter clockwise (viewed from shaft end)	2.5~12
	40、45						
	50						
	63						

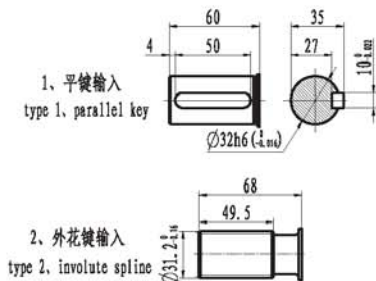
注: 主泵排量可根据用户需求设定。

NOTE: main pump displacement can be made according to customer's need.

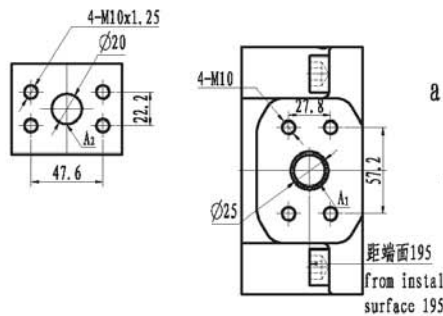
外形尺寸
Dimension



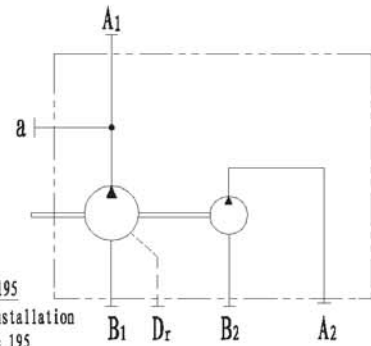
输入型式
Type of shaft end



出油口尺寸
delivery port



液压原理图
Hydraulic Principle



渐开线外花键输入参数

Dimensions of involute spline shaft end

型号 type	齿数 no. of teeth	径节 diametral pitch	压力角 pressure angle	齿顶圆直径 major diameter	齿根圆直径 base diameter	跨棒距 min measurement over two pins	量棒直径 pin diameter	花键标准 involute spline rule
IAP63-1	14	12/24	30°	$\phi 31.2_{-0.16}^0$	$\phi 27_{-0.16}^0$	34.406	3.6	ANSI B92.1-1970

主要性能参数

Main Specifications

型号 pump size	排量 (mL/r) displacement	压力 pressure (MPa)		最高转速 peak speed (r/min)		辅助泵排量 (mL/r) gear pump displacement		辅助泵压力 (MPa) gear pump pressure		辅助泵转速 (r/min) gear pump speed		转向 direction of rotation	适用机重 (Ton) Applicable Vehicle Mass (Ton)
		额定 rated	最高 peak	最高 peak	最高 peak	额定 rated	最高 peak	最低 min	额定 rated	最高 peak			
IAP63-1	32	31.4	34.3	2650	3250	10, 12.5, 14	20	25	400	2500	3000	从轴端看顺时针 (流进时) clockwise or counter clockwise (viewed from shaft end)	2.5 ~ 12
	40, 45												
	50												
	63												

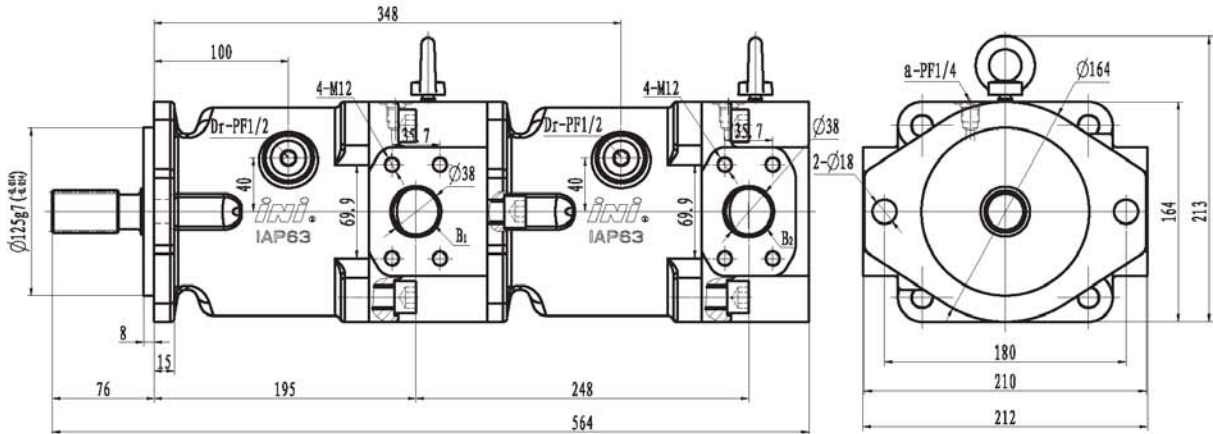
注: (1) 主泵排量可根据用户需求设定。

(2) 配套齿轮泵可根据用户需求做出更改。

NOTE: (1) main pump displacement can be made according to customer's need.

(2) gear pump style can be change according to customer's need.

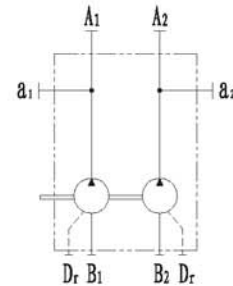
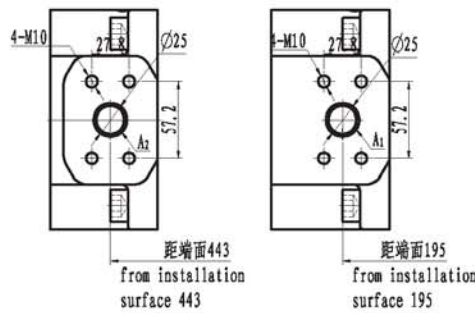
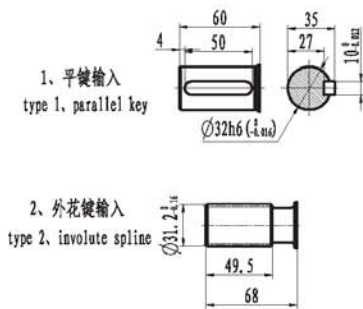
外形尺寸 Dimension



输入型式
Type of shaft end

出油口尺寸
delivery port

液压原理图
Hydraulic Principle



渐开线外花键输入参数

Dimensions of involute spline shaft end

型号 type	齿数 no. of teeth	径节 diametral pitch	压力角 pressure angle	齿顶圆直径 major diameter	齿根圆直径 base diameter	跨棒距 min measurement over two pins	量棒直径 pin diameter	花键标准 involute spline rule
IAP63-2	14	12/24	30°	Ø31.2 ^{+0.16}	Ø27 ^{-0.16}	34.406	3.6	ANSI B92.1-1970

主要性能参数

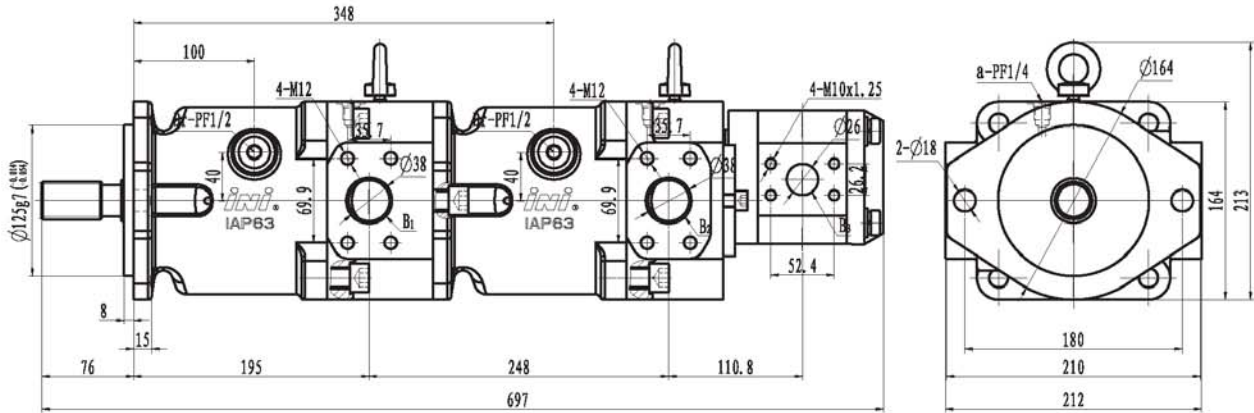
Main Specifications

型号 pump size	排量 (mL/r) displacement	压力 pressure (MPa)		最高转速 peak speed (r/min)		转向 direction of rotation	适用机重 (Ton) Applicable Vehicle Mass (Ton)
		额定 rated	最高 peak	自吸最高 max self priming	最高 peak		
IAP63-2	2x32	31.4	34.3	2650	3250	从轴端看顺时针 (或逆时针) clockwise or counter clockwise (viewed from shaft end)	2.5~12
	2x40、2x45						
	2x50						
	2x63						

注: 主泵排量可根据用户需求设定。

NOTE: main pump displacement can be made according to customer's need.

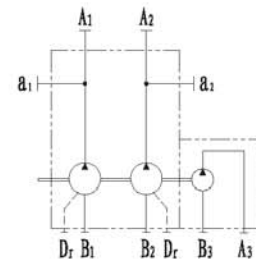
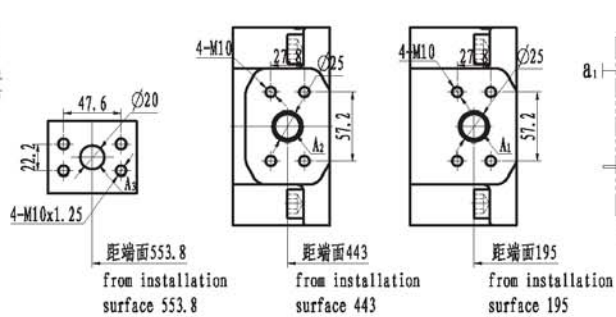
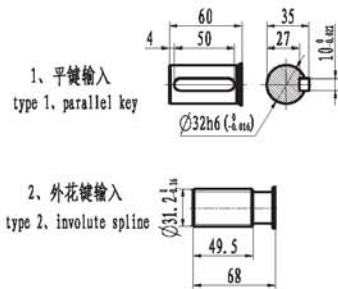
外形尺寸
Dimension



输入型式
Type of shaft end

出油口尺寸
delivery port

液压原理图
Hydraulic Principle



渐开线外花键输入参数

Dimensions of involute spline shaft end

型号 type	齿数 no. of teeth	径节 diametral pitch	压力角 pressure angle	齿顶圆直径 major diameter	齿根圆直径 base diameter	跨棒距 min measurement over two pins	量棒直径 pin diameter	花键标准 involute spline rule
IAP63-2	14	12/24	30°	φ31.2 ⁰ _{-0.16}	φ27 ⁰ _{-0.16}	34.406	3.6	ANSI B92.1-1970

主要性能参数

Main Specifications

型号 pump size	排量 (mL/r) displacement	压力 pressure (MPa)		最高转速 peak speed (r/min)		辅助泵排量 (mL/r) gear pump displacement		辅助泵压力 (MPa) gear pump pressure		辅助泵转速 (r/min) gear pump speed		转向 direction of rotation	适用机重 (Ton) Applicable Vehicle Mass (Ton)
		额定 rated	最高 peak	最高 peak	最高 peak	最高 peak	最低 min	额定 rated	最高 peak	最低 min	额定 rated		
IAP63-2	2x63	31.4	34.3	2650	3250	10, 12.5, 14	20	25	400	2500	3000	从轴端看顺时针 (流进时) clockwise or counter clockwise (viewed from shaft end)	2.5~12
						16, 19.2, 20							
						23, 25, 26.5							
						30, 32							

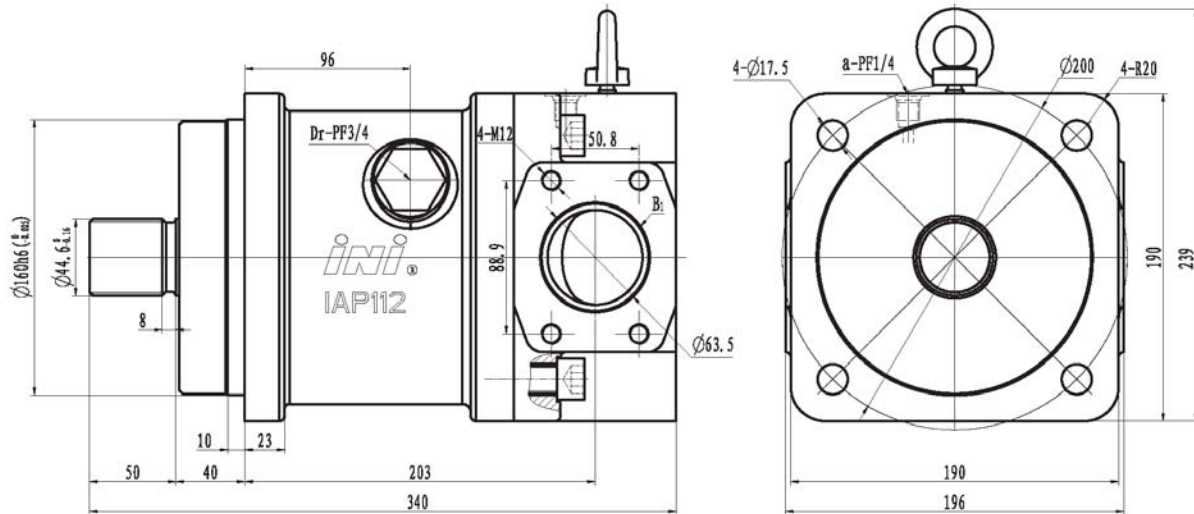
注: (1) 主泵排量可根据用户需求设定。

(2) 配套齿轮泵可根据用户需求做出更改。

NOTE: (1) main pump displacement can be made according to customer's need.

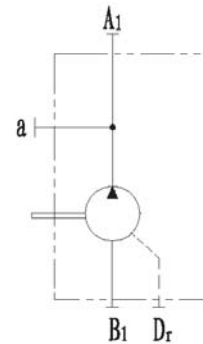
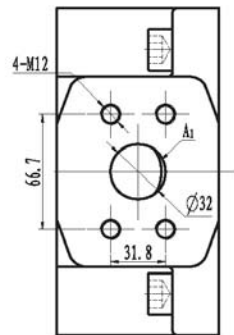
(2) gear pump style can be change according to customer's need.

外形尺寸 Dimension



主泵出口口尺寸
main pump delivery port

液压原理图
Hydraulic Principle



外花键输入参数
Dimensions of shaft end

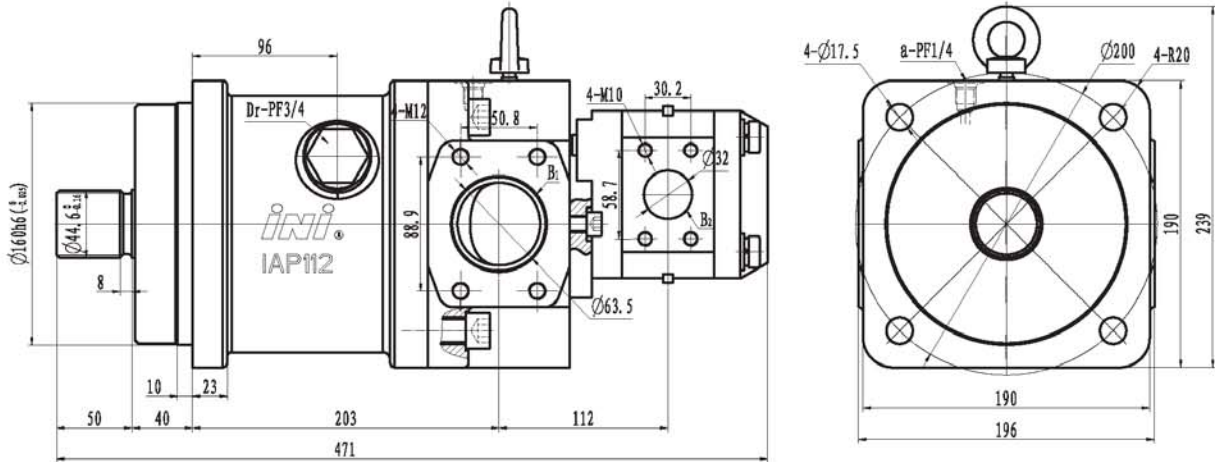
型号 type	齿数 no. of teeth	模数 module	压力角 pressure angle	齿顶圆直径 major diameter	齿根圆直径 minor diameter	公法线长度 base tangent length	跨测齿数 Number of teeth spanned for base tangent length	花键标准 involute spline rule
IAP112-1	21	2	30°	$\phi 44.6_{-0.16}^{+0}$	$\phi 40.6_{-0.83}^{+0}$	21.4	4	DIN 5480

主要性能参数
Main Specifications

型号 pump size	排量(mL/r) displacement	压力 pressure (MPa)		最高转速 peak speed (r/min)		转向 direction of rotation 从轴端看顺时针(或逆时针) clockwise or counter clockwise (viewed from shaft end)	适用机重(Ton) Applicable Vehicle Mass (Ton)
		额定 rated	最高 peak	自吸最高 max self priming	最高 peak		
IAP112-1	70、80、90 100、112、120	31.4	34.3	2360	2700		10~25

注：主泵排量可根据用户需求设定，NTOB: main pump displacement can be made according to customer's need.

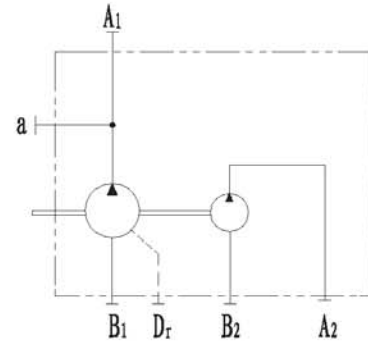
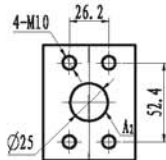
外形尺寸 Dimension



辅泵出油口尺寸
gear pump delivery port

主泵出油口尺寸
main pump delivery port

液压原理图
Hydraulic Principle



外花键输入参数

Dimensions of shaft end

型号 type	齿数 no. of teeth	模数 module	压力角 pressure angle	齿顶圆直径 major diameter	齿根圆直径 minor diameter	公法线长度 base tangent length	跨测齿数 Number of teeth spanned for base tangent length	花键标准 involute spline rule
IAP112-1	21	2	30°	$\phi 44.6_{-0.16}^0$	$\phi 40.6_{-0.83}^0$	21.4	4	DIN 5480

主要性能参数

Main Specifications

型号 pump size	排量 (ml/r) displacement	压力 pressure (MPa)		最高转速 peak speed (r/min)		辅助泵排量 (ml/r) gear pump displacement		辅助泵压力 (MPa) gear pump pressure		辅助泵转速 (r/min) gear pump speed		转向 direction of rotation	适用机重 (Ton) Applicable Vehicle Mass (Ton)
		额定 rated	最高 peak	最高 peak	最高 peak	最高 peak	最高 peak	最低 min	额定 rated	最高 peak			
IAP112-1	70	31.4	34.3	2360	2700	27	25	30	400	2500	3000	从轴端看顺时针 (或逆时针) clockwise or counter clockwise (viewed from shaft end)	10~25
	80					32							
	90					36							
	100					40							
	112 (120)					44	20	25					

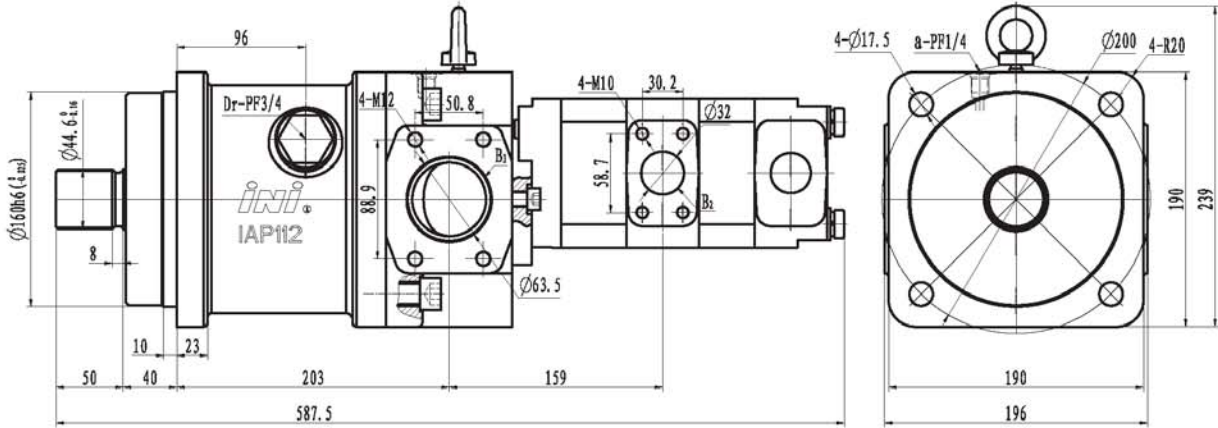
注: (1) 主泵排量可根据用户需求设定。

(2) 配套齿轮泵可根据用户需求做出更改。

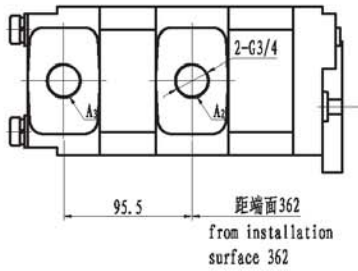
NOTE: (1) main pump displacement can be made according to customer's need.

(2) gear pump style can be change according to customer's need.

外形尺寸 Dimension



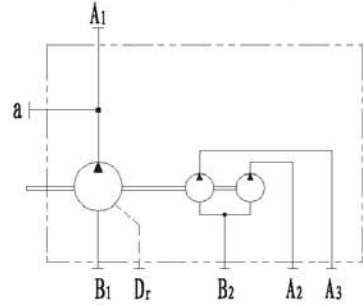
辅泵出油口尺寸
gear pump delivery port



主泵出油口尺寸
main pump delivery port



液压原理图
Hydraulic Principle



外花键输入参数 Dimensions of shaft end

型号 type	齿数 no. of teeth	模数 module	压力角 pressure angle	齿顶圆直径 major diameter	齿根圆直径 minor diameter	公法线长度 base tangent length	跨测齿数 Number of teeth spanned for base tangent length	花键标准 involute spline rule
IAP112-1	21	2	30°	φ44.6 ^{+0.16}	φ40.6 ^{+0.83}	21.4	4	DIN 5480

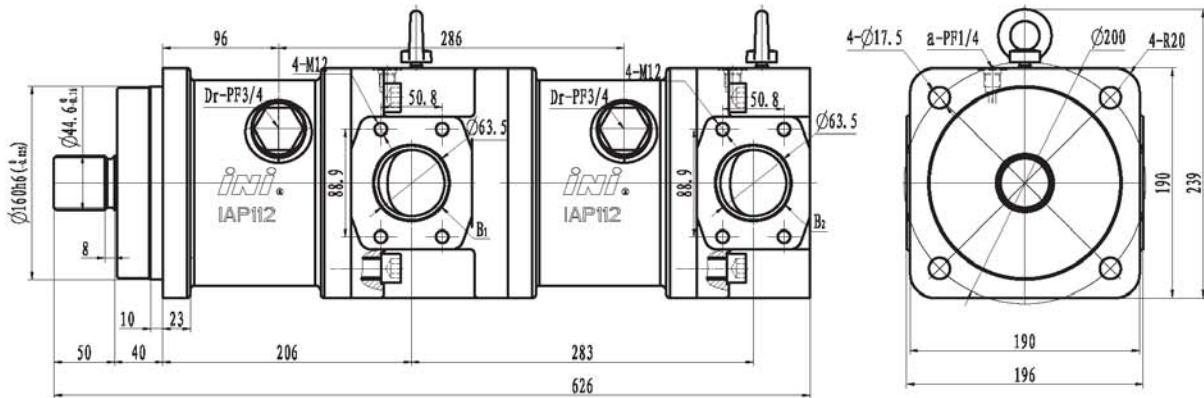
主要性能参数 Main Specifications

型号 pump size	排量 (mL/r) displacement	压力 pressure (MPa)		最高转速 peak speed (r/min)		辅助泵排量 (mL/r) gear pump displacement		辅助泵压力 (MPa) gear pump pressure		辅助泵转速 (r/min) gear pump speed		转向 direction of rotation	适用机重 (Ton) Applicable Vehicle Mass (Ton)	
		额定 rated	最高 peak	最高 peak	最高 peak	额定 rated	最高 peak	最低 min	额定 rated	最高 peak				
IAP112-1	70	31.4	34.3	2360	2700	前 front	后 rear	25	28	600	2000	2500	从轴轴端顺时针 (从轴端看) clockwise or counter clockwise (viewed from shaft end)	10~25
	80					32	25							
	90					32	32							
	100					40	20							
112 (120)	40	32												

注: (1) 主泵排量可根据用户需求设定。
(2) 配套齿轮泵可根据用户需求做出更改。

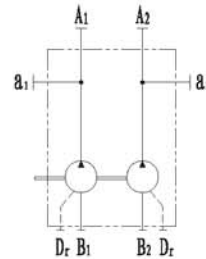
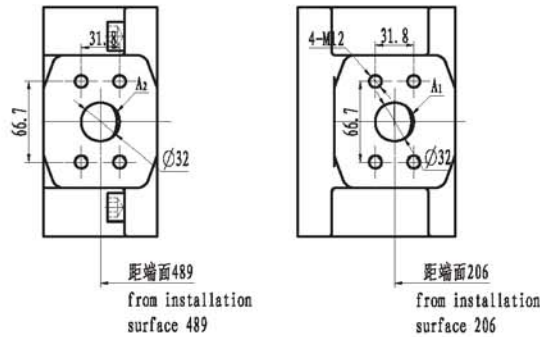
NOTE: (1) main pump displacement can be made according to customer's need.
(2) gear pump style can be change according to customer's need.

外形尺寸 Dimension



主泵出油口尺寸
main pump delivery port

液压原理图
Hydraulic Principle



外花键输入参数
Dimensions of shaft end

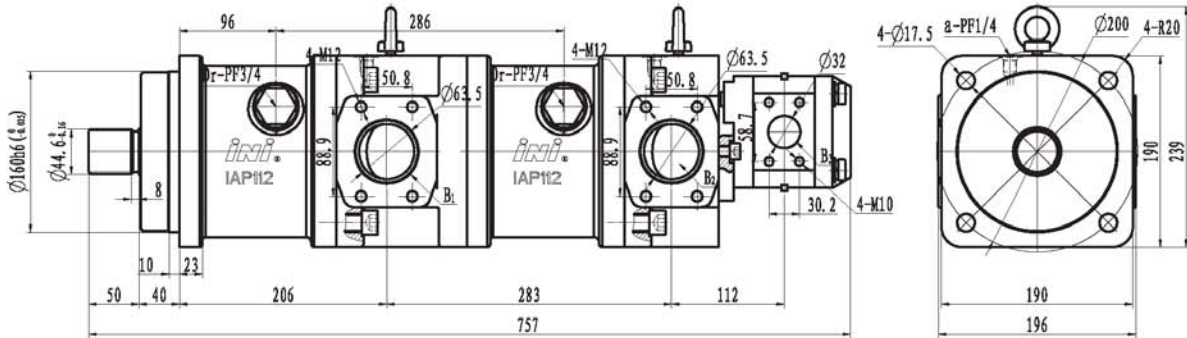
型号 type	齿数 no. of teeth	模数 module	压力角 pressure angle	齿顶圆直径 major diameter	齿根圆直径 minor diameter	公法线长度 base tangent length	跨测齿数 Number of teeth spanned for base tangent length	花键标准 involute spline rule
IAP112-2	21	2	30°	$\phi 44.6_{-0.16}^0$	$\phi 40.6_{-0.83}^0$	21.4	4	DIN 5480

主要性能参数
Main Specifications

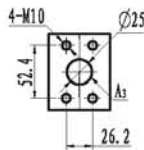
型号 pump size	排量 (mL/r) displacement	压力 pressure (MPa)		最高转速 peak speed (r/min)		转向 direction of rotation	适用机重 (Ton) Applicable Vehicle Mass (Ton)
		额定 rated	最高 peak	自吸最高 max self priming	最高 peak		
IAP112-2	2x70	31.4	34.3	2360	2700	从轴端看顺时针 (或逆时针) clockwise or counter clockwise (viewed from shaft end)	10~25
	2x80						
	2x90						
	2x100						
	2x112 (2x120)						

注：主泵排量可根据用户需求设定，NTOE: main pump displacement can be made according to customer's need.

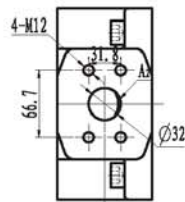
外形尺寸 Dimension



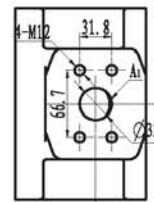
辅泵出油口尺寸
gear pump delivery port



主泵出油口尺寸
main pump delivery port

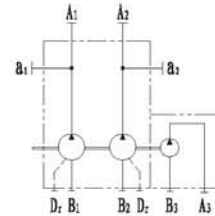


距端面489
from installation
surface 489



距端面206
from installation
surface 206

液压原理图
Hydraulic Principle



外花键输入参数
Dimensions of shaft end

型号 type	齿数 no. of teeth	模数 module	压力角 pressure angle	齿顶圆直径 major diameter	齿根圆直径 minor diameter	公法线长度 base tangent length	跨测齿数 Number of teeth spanned for base tangent length	花键标准 involute spline rule
IAP112-2	21	2	30°	$\phi 44.6_{-0.16}^{+0.16}$	$\phi 40.6_{-0.03}^{+0.03}$	21.4	4	DIN 5480

主要性能参数
Main Specifications

型号 pump size	排量 (mL/r) displacement	压力 pressure (MPa)		最高转速 peak speed (r/min)		辅助泵排量 (mL/r) gear pump displacement		辅助泵压力 (MPa) gear pump pressure		辅助泵转速 (r/min) gear pump speed		转向 direction of rotation	适用机重 (Ton) Applicable Vehicle Mass (Ton)
		额定 rated	最高 peak	最高 peak	最高 peak	额定 rated	最高 peak	最低 min	额定 rated	最高 peak			
IAP112-2	2x70	31.4	34.3	2360	2700	27	25	30	400	2500	3000	从轴端看顺时针(或逆时针) clockwise or counter clockwise (viewed from shaft end)	10~25
	2x80												
	2x90												
	2x100					20	25						
	2x112 (2x120)					44							

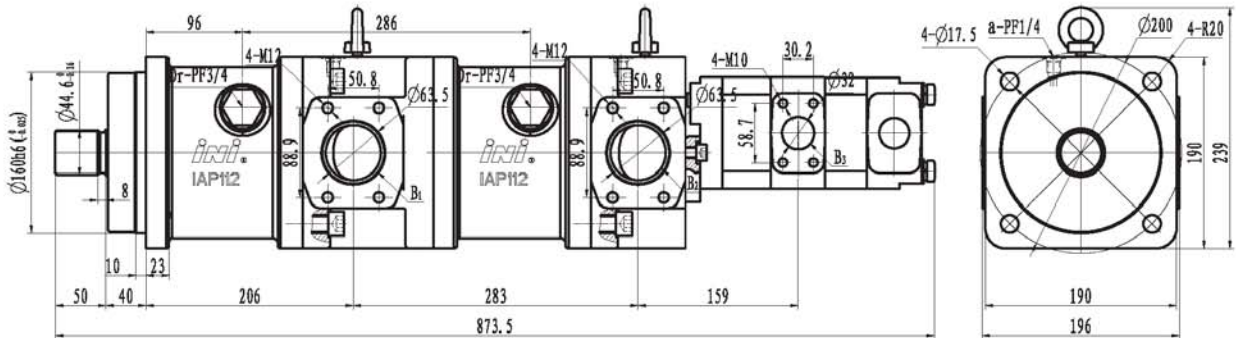
注: (1) 主系排量可根据用户需求设定。

(2) 配套齿轮泵可根据用户需求做出更改。

NTOE: (1) main pump displacement can be made according to customer's need.

(2) gear pump style can be change according to customer's need.

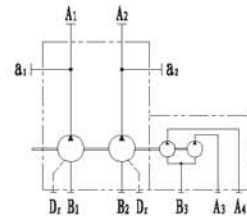
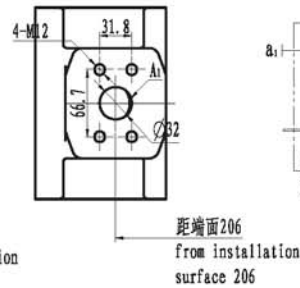
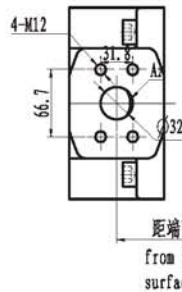
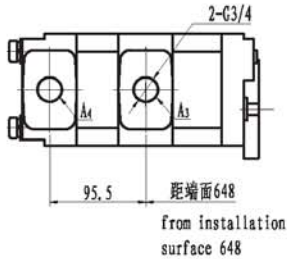
外形尺寸 Dimension



辅泵出口尺寸
gear pump delivery port

主泵出口尺寸
main pump delivery port

液压原理图
Hydraulic Principle



外花键输入参数 Dimensions of shaft end

型号 type	齿数 no. of teeth	模数 module	压力角 pressure angle	齿顶圆直径 major diameter	齿根圆直径 minor diameter	公法线长度 base tangent length	跨测齿数 Number of teeth spanned for base tangent length	花键标准 involute spline rule
IAP112-2	21	2	30°	φ44.6 ^{+0.16}	φ40.6 ^{+0.03}	21.4	4	DIN 5480

主要性能参数 Main Specifications

型号 pump size	排量 (mL/r) displacement	压力 pressure (MPa)		最高转速 peak speed (r/min)		辅助泵排量 (mL/r) gear pump displacement		辅助泵压力 (MPa) gear pump pressure		辅助泵转速 (r/min) gear pump speed		转向 direction of rotation	适用机重 (Ton) Applicable Vehicle Mass (Ton)	
		额定 rated	最高 peak	最高 peak	最高 peak	前泵 front	后泵 rear	额定 rated	最高 peak	最低 min	额定 rated			最高 peak
IAP112-2	2x70	31.4	34.3	2360	2700	32	25	25	28	600	2000	2500	从轴端看顺时针(或逆时针) clockwise or counter clockwise (viewed from shaft end)	10~25
	2x80					32	32							
	2x90					40	20							
	2x100					40	32							
2x112 (2x120)														

注: (1) 主泵排量可根据用户需求设定。

NT0E: (1) main pump displacement can be made according to customer's need.

(2) 配套齿轮泵可根据用户需求做出更改。

(2) gear pump style can be change according to customer's need.

IAM 系列轴向柱塞定量马达

1、概述

IAM 系列定量柱塞马达是斜盘式轴向定量柱塞马达。该产品采用本公司多年的设计经验及先进的加工手段，并在严格的质量管理体系下监制的，有效地保证了高的承载能力和运行的可靠性。

2、特性

IAM 系列定量马达是在本公司多年的设计和生产经验下制作的高压、高效率斜盘式液压马达。该马达主要有以下几个特点：

(1) 高功率密度

由于采用固定斜盘，实现了产品的高压化和小型轻量化，增加了功率密度，实现了传动效率的提高和整体的小型轻量化。

(2) 高效率

通过采用球面配流盘和最佳液压平衡设计，使转子组件运转稳定可靠，在低压及低速工作条件下也能获得很高的效率。

(3) 长寿命

由于采用可承受高负荷的主轴承、以及柱塞回程机构可补偿滑靴磨损，高负荷轴承和转子组件采用特殊低耐磨材料，使产品具有长寿命及高可靠性。

(4) 低噪音

刚性连接及配流设计改善，实现了整体的低噪音化。

顺应时代发展要求，我公司在多年的丰富设计经验和实践基础上，进一步提高功率密度、效率、可靠性，追求最优的功能设计，研制出了 IAM 系列斜盘式轴向定量柱塞马达，该产品被广泛用于工程机械、起重运输机械、建筑机械以及机床、船舶、矿山、冶金等各类机械领域。

3、型号说明



IAM Series Motor

1. Brief Introduction

IAM series motor are swash plate type axial piston motor, and their displacement are fixed . IAM series motor are designed on the basis of our profound knowledge and long experience , and manufactured under the strict quality control system , thus ensuring IAM series has high efficiency and high reliability .

2. Features

IAM series motor have features as follows:

1 . High Power Density

By adopting a fixed swash plate , a lighter and more compact machine with higher pressure rating and increased power density was obtained , has an increased transmission efficiency , and is lighter.

2 .High Efficiency

The spherical valve plate and improved hydraulic balance provide stable cylinder rotation, thus achieving high efficiency even in a low pressure and low speed operating range.

3. Long Life

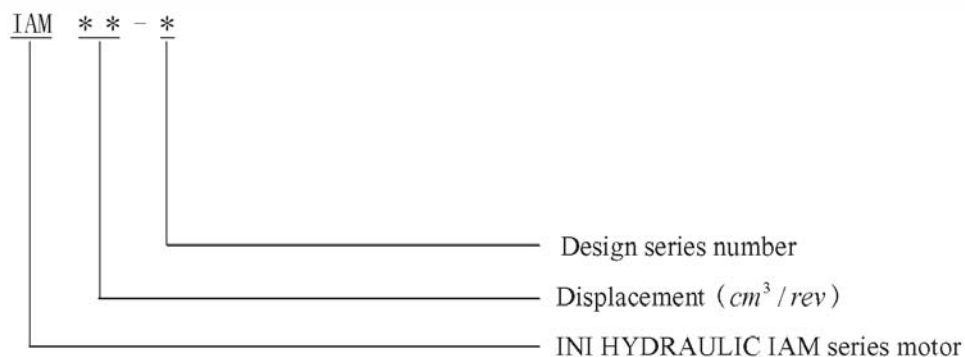
A long life is obtained by adopting main bearings of large capacity and the piston return mechanism that compensates for the wear of the shoes.

4. Low Noise

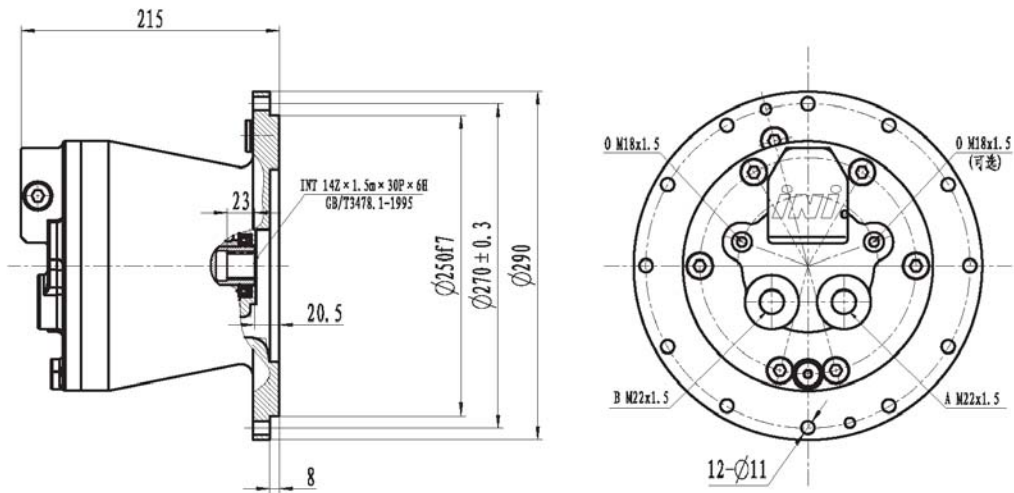
Even less noise has been achieved because of the optimum design of the valve plate and the casing rigidity.

IAM series motor has optimum function design and is provided with further improved power density , efficiency, and reliability, based upon our long and rich experience, meeting the present day requirements . IAM series motor are utilized world-wide to provide the power source for hydraulic excavators , cranes , construction machines , car carrier and many other special purpose vehicles.

3. Model Options



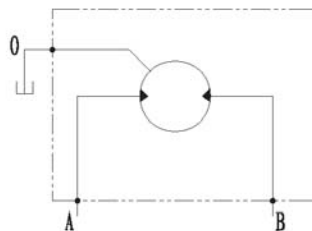
外形尺寸
Dimension



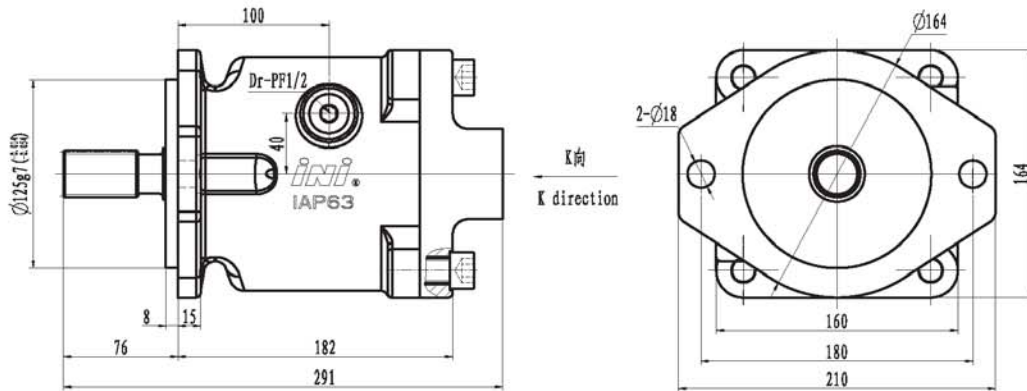
技术参数
Technical Data

输出扭矩 Output Torque (N·m)	转速 Speed (r/min)	额定压力 Rated Pressure (MPa)	液压马达排量 Motor Displacement (ml/r)	总重量 Weight (Kg)
170	700-1600	30	36.045	18

液压原理图
Hydraulic diagram



外形尺寸 Dimension

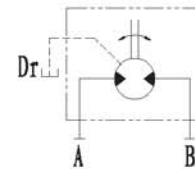
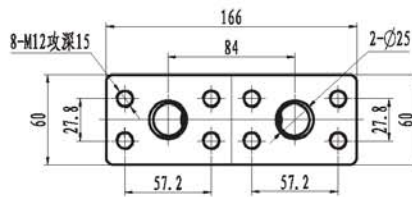
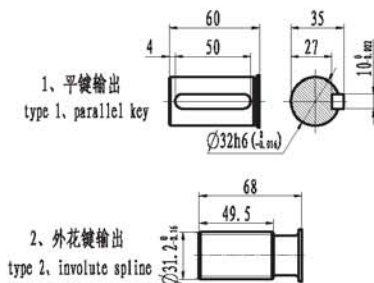


K向 K direction

进出口尺寸
suction and delivery port

液压原理图
Hydraulic Principle

输出型式
Type of shaft end



渐开线外花键输入参数

Dimensions of involute spline shaft end

型号 type	齿数 no. of teeth	径节 diametral pitch	压力角 pressure angle	齿顶圆直径 major diameter	齿根圆直径 base diameter	跨棒距 min measurement over two pins	量棒直径 pin diameter	花键标准 involute spline rule
IAM63	14	12/24	30°	Ø31.2 _{-0.16}	Ø27 _{-0.16}	34.406	3.6	ANSI B92.1-1970

主要性能参数

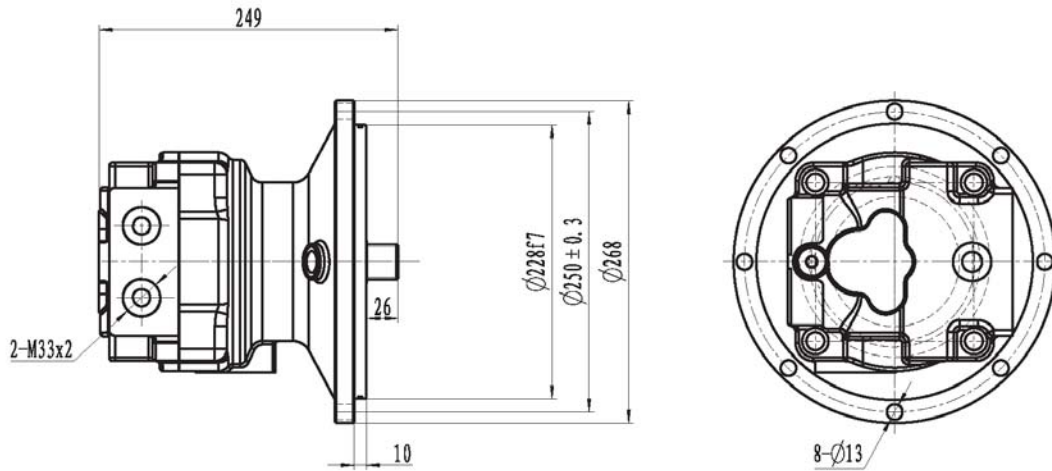
Main Specifications

型号 pump size	排量(ml/r) displacement	压力 pressure (MPa)		转速 speed (r/min)		最大流量(L/min) Max Flow	转向 direction of rotation
		额定 rated	最高 peak	额定 rated	最高 peak		
IAM63	32	30	35	2650	3250	189	从轴端看顺时针(或逆时针) clockwise or counter clockwise (viewed from shaft end)
	40、45						
	50						
	63						

注: 马达排量可根据用户需求设定。

NOTE: motor displacement can be made according to customer's need.

外形尺寸 Dimension

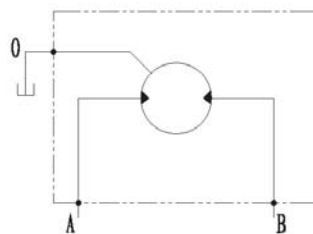


技术参数 Technical Data

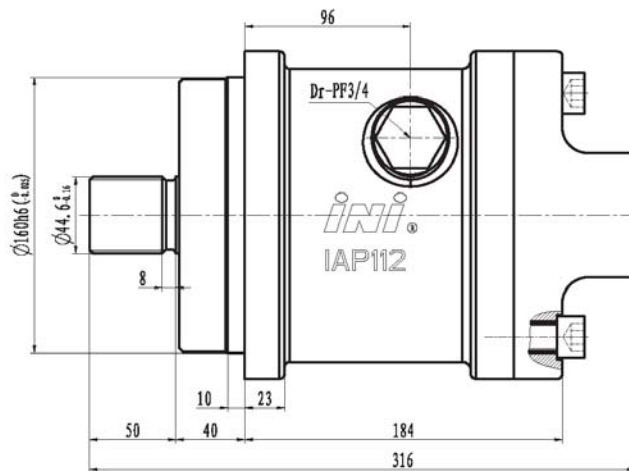
输出扭矩 Output Torque (N·m)	转速 Speed (r/min)	额定压力 Rated Pressure (MPa)	液压马达排量 Motor Displacement (ml/r)	总重量 Weight (Kg)
300	800-1600	30	64.832	25

输出轴花键参数	
模数 m	1.667
齿数 Z	16
压力角 α	20°
大径 Di	$\phi 29.67_{-0.018}^{+0.018}$
小径 Dim	$\phi 26_{-0.13}^{+0.13}$
变位系数 x	0.8
跨测齿数 Zc	3
公法线长度 W	$13.52_{-0.06}^{+0.06}$
公差等级	7H

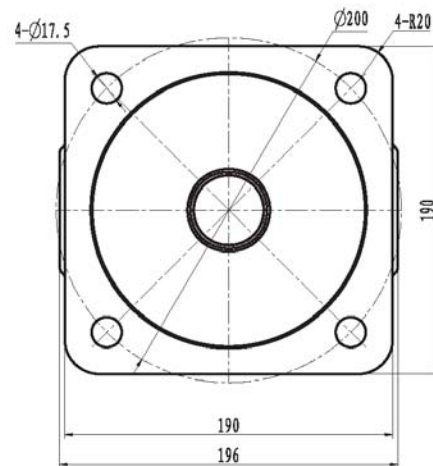
液压原理图
Hydraulic diagram



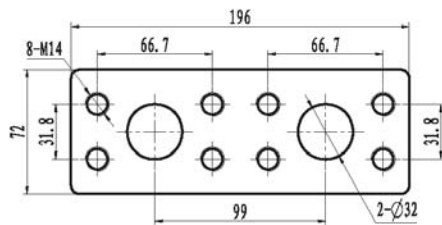
外形尺寸 Dimension



进出油口尺寸
suction and delivery port



液压原理图
Hydraulic Principle



外花键输入参数

Dimensions of shaft end

型号 type	齿数 no. of teeth	模数 module	压力角 pressure angle	齿顶圆直径 major diameter	齿根圆直径 minor diameter	公法线长度 base tangent length	跨测齿数 Number of teeth spanned for base tangent length	花键标准 involute spline rule
IAM112	21	2	30°	$\varnothing 44.6_{-0.16}^{+0.16}$	$\varnothing 40.6_{-0.83}^{+0.83}$	21.4	4	DIN 5480

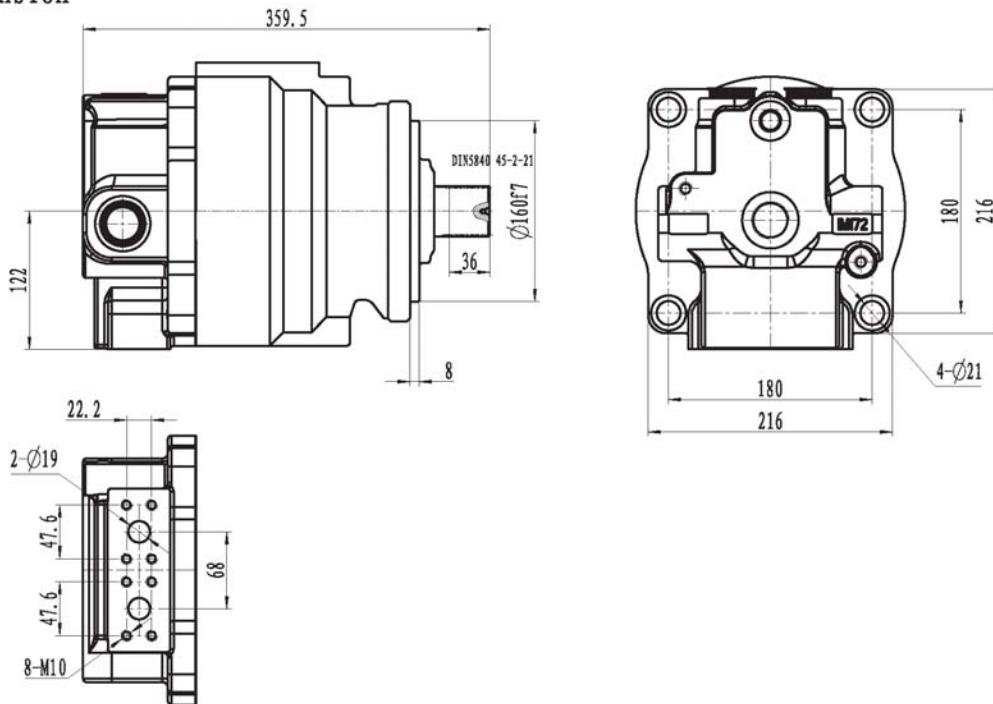
主要性能参数

Main Specifications

型号 pump size	排量 (mL/r) displacement	压力 pressure (MPa)		转速 speed (r/min)		最大流量 (L/min) Max Flow	转向 direction of rotation 从轴端看顺时针(或逆时针) clockwise or counter clockwise (viewed from shaft end)
		额定 rated	最高 peak	额定 rated	最高 peak		
IAM112	70、80、90 100、112、116	30	35	2360	2700	290	

注：马达排量可根据用户需求设定。NOTE: motor displacement can be made according to customer's need.

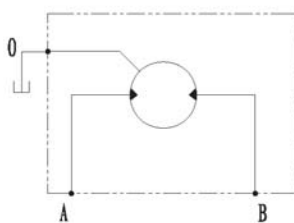
外形尺寸
Dimension



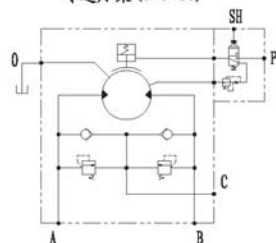
技术参数
Technical Data

额定输出扭矩 Rated output Torque (N·m)	最高输出扭矩 Max. output Torque (N·m)	转速 Speed (r/min)	额定压力 Rated Pressure (MPa)	最高压力 Max. Pressure (MPa)	液压马达排量 Motor Displacement (ml/r)	总重量 Weight (Kg)
680	870	80-1600	25	32	171.6	40
440	563				110.9	
364	466				91.6	
334	427				84.1	

液压原理图
Hydraulic diagram



可选方案 (choice)



(一) INM系列液压马达

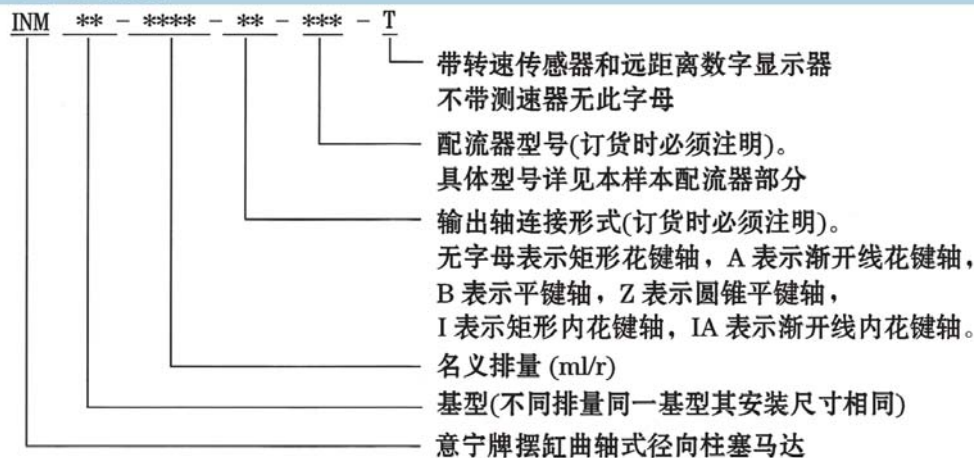
1. 概述

INM系列马达是本公司集合多年生产实践经验，在意大利技术基础上进行了设计改进，拥有实用新型专利知识产权，使INM系列马达壳体强度增加，内部动态元件承载能力和抗污染能力增强。这一特点使该系列马达具有很高的连续功率范围。由于机械效率和容积效率高，同时又减少了内部单位负载力，因此减少了热量产生以及与此相关的负面效应。其主要特点如下：

- 1). 由于活塞与摆缸不存在侧向力，活塞底部设计成静压平衡，活塞与曲轴之间通过滚动轴承传递扭力，这些均减少了传力过程中的摩擦损失。因而INM系列液压马达具有很高的机械效率、高的起动扭矩(起动时机械效率0.92以上)的特点。
- 2). 平面配流器简单可靠，密封性能好，泄漏很少。活塞与摆缸之间用塑料活塞环密封无泄漏，因而具有很高的容积效率(可达0.99)。
- 3). 摆缸耳轴与后盖和壳体的轴孔之间采用具有减摩和自润滑性能的复合材料轴套(专利技术)。从结构上减少了摩擦损失，提高了密封性能和抗污能力。因而提高了低速稳定性机械效率和工作可靠性。
- 4). 由于活塞与轴承套通过卡环使其贴牢不存在间隙，因而该系列液压马达可以作泵工况下运转，当进油口封闭后马达可在自由轮工况下运转(作泵工况时需补油压力，这可提高工作可靠性)。
- 5). 该系列液压马达压力高，最高压力可达35MPa。重量轻、体积小，比功率高。
- 6). 由于结构简单，设计合理，采用负荷能力大的轴承，因而工作可靠、寿命长、噪音低，传动轴允许承受径向负荷，旋转方向可逆。

由于INM系列液压马达具有上述一系列特点，故广泛应用于塑料机械、轻工机械、冶金机械、矿山机械、起重运输设备、重型机械、石油煤矿机械、船舶甲板机械、机床、地质钻探设备等各种机械的液压传动系统中。特别适用于提升绞盘、卷筒驱动、各种回转机械驱动、履带和轮子行走机构的驱动等传动机械中。

2. 型号说明



3. 型号举例

INM2-400BD31表示基型为2系列INM液压马达，其名义排量为400ml/r；输出轴为平键轴，配流器型号为D31；不带测速装置。订货时请按此填写完整的型号，若有特殊要求请在订货合同中详细说明。

● INM Series Hydraulic Motors

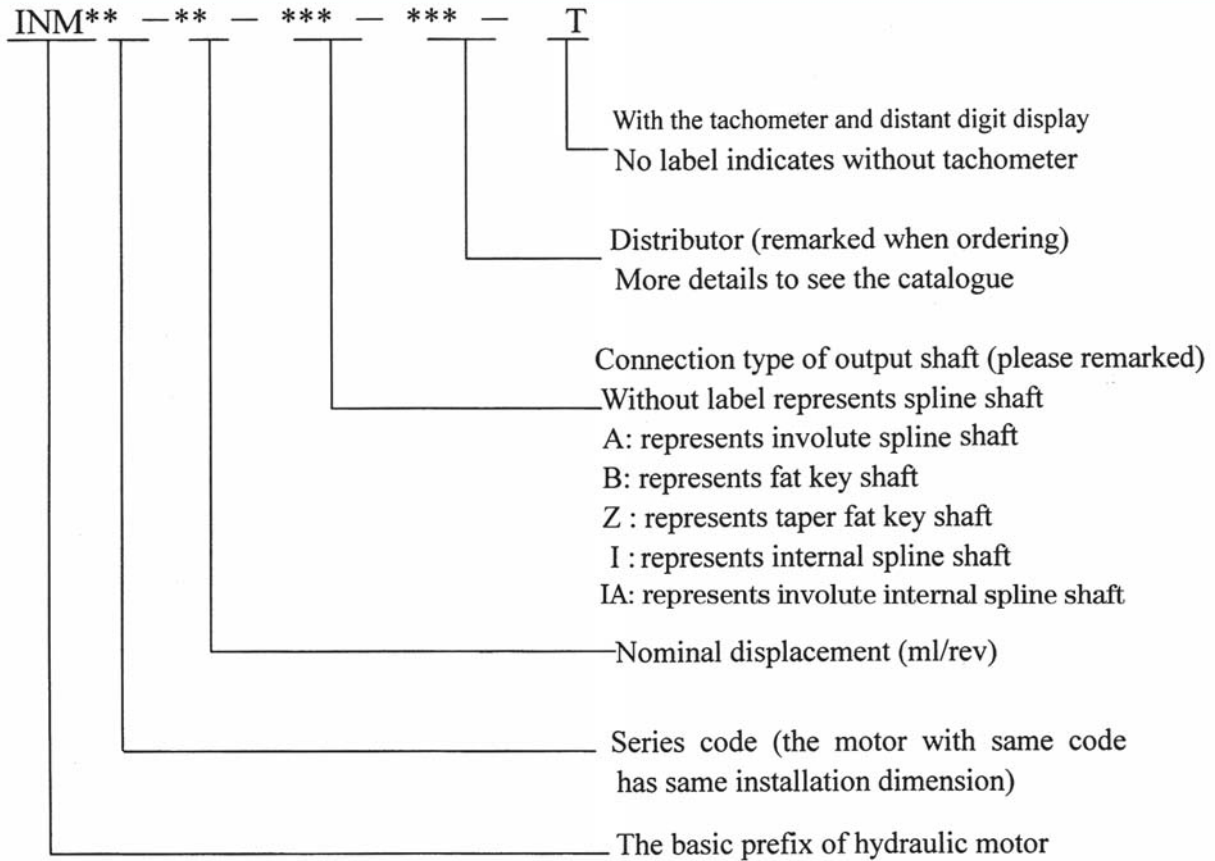
1. Brief Introduction

INM series motors are a result of the many years' of experience based on Italy technology, and incorporate a number of design variations with respect to the technology intended to increase the strength of the motor casings and the load capacity of the internal dynamic components. The result is the series of motors with high continuous power ratings, both because of the reduced internal specific loads, and because of the high mechanical and volumetric efficiency that contribute in reducing the amount of heat produced and therefore also the negative effects associated with it. The main characteristics are as follows:

- (1) The side loading between the piston and swiveling cylinder has been eliminated; the hydrostatic balance is built between the piston feet; the pistons transmit load to the shaft via a rolling bearing. All above reduces the friction loss in the load transmission. Therefore INM series hydraulic motor features high mechanical efficiency and high starting torque (above 0.92).
- (2) Rotary axial distributor (patent technology) ensures simply and reliable performance, good sealing capability, low leakage. The plastic piston ring between pistons and cylinder reduces the leakage, so the volumetric efficiency of motor is very high (more than 0.99).
- (3) Due to the reduced friction loss in structure and improved sealing capability, so the motor can operate at low speeds with a high degree of speed stability, even if at 1r/min of speed. Hereby the speed control range is wide (the speed control ratio is up to 1000).
- (4) The pistons and bearing sleeve is matched well via supporting ring to eliminate the clearance. So the series motors can run in pump condition. When the inlet port and outlet port is closed, the motors could run in freewheeling condition.
- (5) The working pressure of the series motor is very high, and the maximum pressure is up to 45MPa. The motor also features light weight, small size and high specific power,
- (6) Because of simple structure, reasonable design, and using large load capacity bearing, the series motors has many excellent features as follow good reliability, long lifetime and low noise. transmission shaft endure radial load. Circumrotate way could be reverse.

Due to above these advantages, it has been widely applied in all kinds of hydraulic transmission system such as plastic injection machine, ship and deck machinery, construction machinery and equipment, hoist and transport vehicle, heavy metallurgical machinery, petroleum and mine machine, light industry equipment, lath, light industry equipment and drilling machine etc. In particular, it can be well available in driving screw rod of injection machine, hoisting winches and capstan, and driving various slew drives.

2. Model options



3. Options example

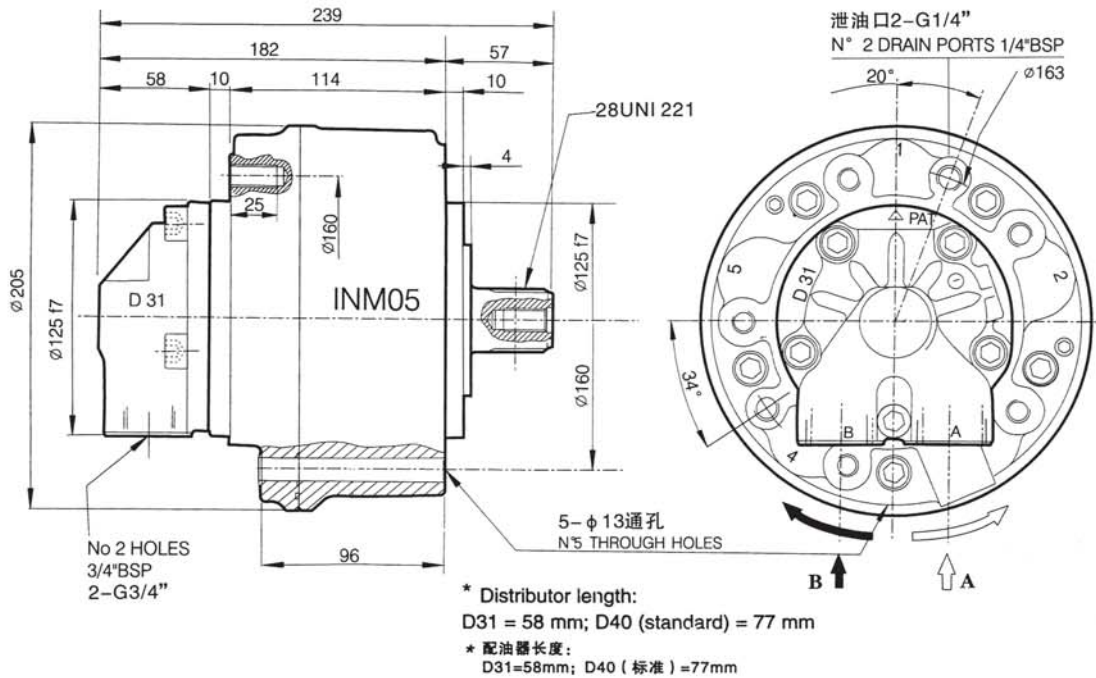
INM2-400BD31 represents that the motor is the 2 series unit of INM hydraulic motor. The nominal displacement is 400ml/rev, the output shaft is flat key shaft, and distributor model is D31 without tachometer. Please fill in the complete code options when ordering. If there are any specific requests, please noted in detail in delivery contract or contact our company

4. INM系列液压马达技术参数

型号 TYPE	理论排量 (ml/r) THEORIC DISPLACEMENT	额定压力 (MPa) RATED PRESSURE	尖峰压力 (MPa) PEAK PRESSURE	额定扭矩 (N·m) RATED TORQUE	单位扭矩 (N·m/Mpa) SPECIFIC TORQUE	连续转速 (r/min)		重量 (kg) WEIGHT
						CONT SPEED	Max. SPEED	
INM05-60	59	25	45	235	9.4	1~700	1000	22
INM05-75	74	25	42.5	295	11.8	1~700	1000	
INM05-90	86	25	37.5	343	13.7	1~700	1000	
INM05-110	115	25	40	458	18.3	1~650	900	
INM05-130	129	25	37.5	513	20.5	1~650	900	
INM05-150	151	25	32.5	600	24	1~650	900	
INM05-170	166	25	32.5	660	26.4	1~600	800	
INM05-200	191	25	28	760	30.4	1~600	800	
INM1-100	99	25	42.5	385	15.4	1~550	1000	31
INM1-150	154	25	40	600	24	1~550	1000	
INM1-175	172	25	37.5	670	26.8	1~550	900	
INM1-200	201	25	35	785	31.4	1~550	800	
INM1-250	243	25	35	950	38	1~450	700	
INM1-300	290	25	30	1130	45.2	1~350	650	
INM1-320	314	25	28	1225	49	1~350	600	
INM1-350	340	25	28	1327	53	1~300	600	
INM2-200	192	25	42.5	750	30	0.7~550	800	51
INM2-250	251	25	42.5	980	39.2	0.7~550	800	
INM2-300	304	25	40	1188	47.5	0.7~500	750	
INM2-350	347	25	37.5	1355	54.2	0.7~500	750	
INM2-420	425	25	35	1658	66.3	0.7~450	750	
INM2-500	493	25	35	1923	76.9	0.7~450	700	
INM2-600	565	25	30	2208	88.3	0.7~450	700	
INM2-630	623	25	28	2433	97.3	0.7~400	650	
INM3-425	426	25	42.5	1660	66.4	0.5~500	650	87
INM3-500	486	25	42.5	1895	75.8	0.5~450	600	
INM3-600	595	25	40	2320	92.8	0.5~450	575	
INM3-700	690	25	35	2700	108	0.5~400	500	
INM3-800	792	25	35	3100	124	0.5~400	500	
INM3-900	873	25	35	3400	136	0.5~350	400	
INM3-1000	987	25	28	3850	154	0.5~300	350	
INM4-600	616	25	40	2403	96.1	0.4~400	550	120
INM4-800	793	25	40	3100	124	0.4~350	550	
INM4-900	904	25	37.5	3525	141	0.4~325	450	
INM4-1000	1022	25	35	4000	160	0.4~300	400	
INM4-1100	1116	25	35	4350	174	0.4~275	400	
INM4-1300	1316	25	28	5125	205	0.4~225	350	
INM5-800	807	25	42.5	3150	126	0.3~325	450	175
INM5-1000	1039	25	42.5	4050	162	0.3~300	450	
INM5-1200	1185	25	40	4625	185	0.3~300	400	
INM5-1300	1340	25	40	5225	209	0.3~300	400	
INM5-1450	1462	25	37.5	5700	228	0.3~275	350	
INM5-1600	1634	25	37.5	6350	254	0.3~250	300	
INM5-1800	1816	25	35	7075	283	0.3~250	300	
INM5-2000	2007	25	35	7825	313	0.3~200	250	
INM6-1700	1690	25	45	6600	264	0.2~250	400	275
INM6-2100	2127	25	40	8300	332	0.2~225	350	
INM6-2500	2513	25	35	9800	392	0.2~200	300	
INM6-3000	3041	25	30	11875	475	0.2~175	250	
INM7-1200	1214	25	30	4125	165	0.2~325	380	310
INM7-2000	2007	25	35	7975	319	0.2~350	450	
INM7-2500	2526	25	35	10050	402	0.2~300	350	
INM7-3000	2985	25	35	11877	475	0.2~250	300	
INM7-3300	3290	25	35	13075	523	0.2~220	275	
INM7-3600	3611	25	32	14350	574	0.2~200	250	
INM7-4300	4298	25	30	17100	684	0.2~175	225	

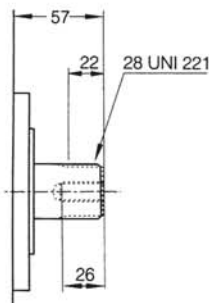
5. INM05系列液压马达安装连接尺寸图及性能曲线

DIMENSIONS

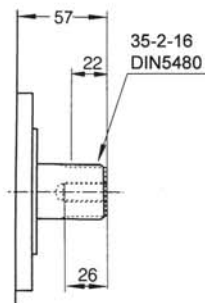


SHAFTS 轴伸型式

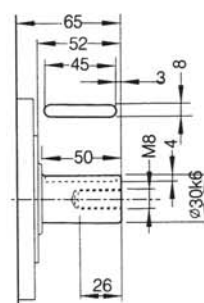
Splined
矩形外花键



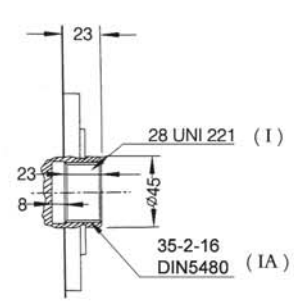
Splined A
渐开线外花键 A



Cylindrical B
圆柱平键 B



Internal spline I, IA
内花键 I, IA

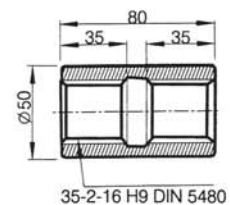


SPLINE DATA - 花键参数

35-2-16 DIN 5480	
d0	∅32.0
d1	∅35.0 ^{+0.520} / ₊₀ H14
d2	∅31.0 ^{+0.160} / ₊₀ H11
A	∅3.5
da	∅27.711 H11
d3	∅34.6 ⁻⁰ / _{-0.160} h11
d4	∅30.6 ⁻⁰ / _{-0.520} h14
B	∅4.0
db	∅39.000 f8

28 UNI 221(6-28-34) DIN 5463	
d1	∅28.0 ^{+0.021} / ₊₀ H7
d2	∅34.1 ^{+0.160} / ₊₀ H11
A	7.0 ^{+0.028} / _{+0.013} F7
d3	∅28.0 ^{-0.007} / _{-0.020} g6
d4	∅34.0 ^{-0.065} / _{-0.160} h14
B	7.0 ^{-0.013} / _{-0.026} f7

ADAPTORS
联轴器

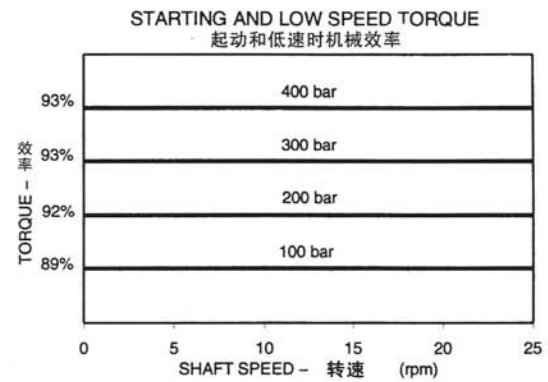
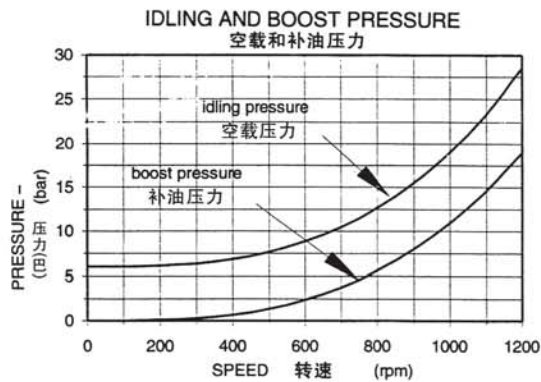
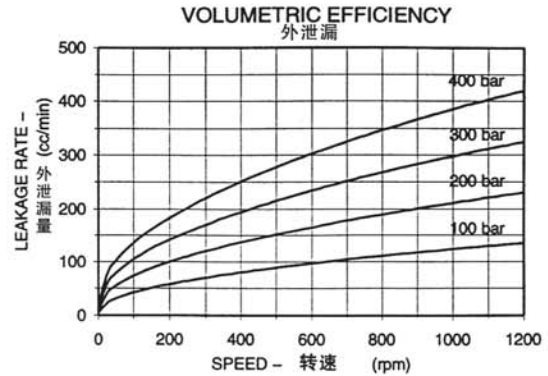
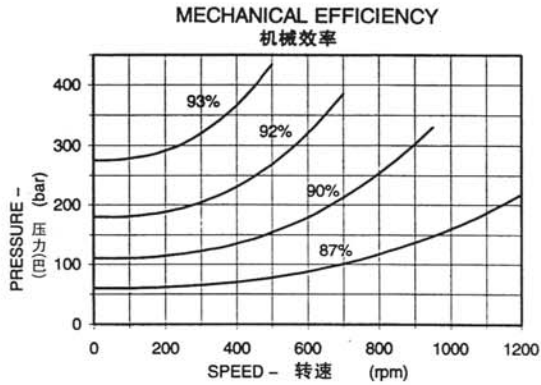


PERFORMANCE

The graphs indicate the typical performance characteristics of the **150cc** motor operating with mineral oil with viscosity 40 cSt at 50 °C.

特性曲线

下列图表为排量**150cc**的马达，在工作液采用矿物油，粘度40cSt,油温50℃工作时的典型特性曲线。



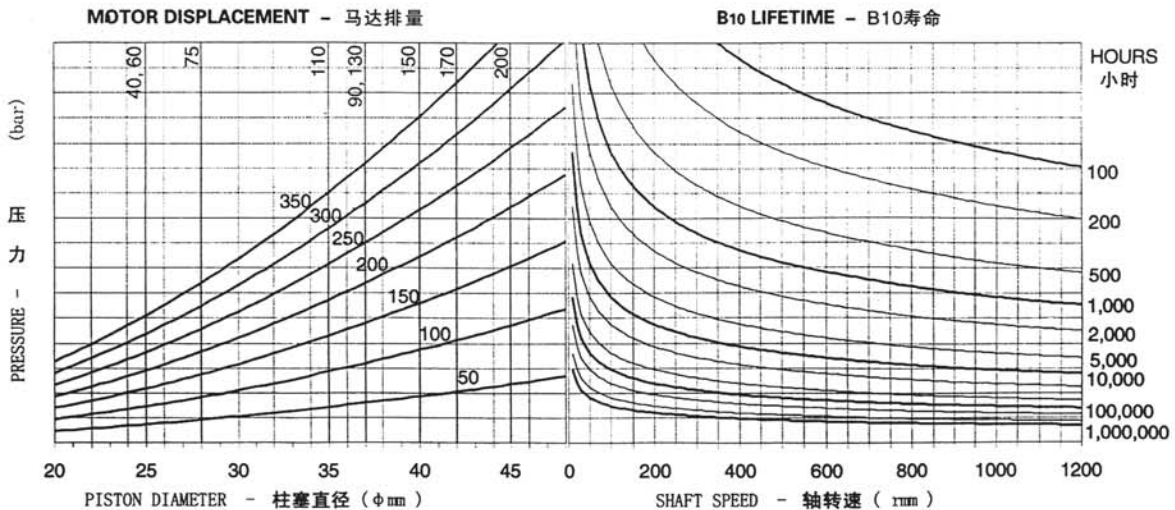
BEARING LIFETIME

The graph refers to the motor with the optional roller bearings (option H). Note that the average lifetime of a bearing (B_{50} lifetime) is approximately 5 times the B_{10} lifetime.

轴承寿命

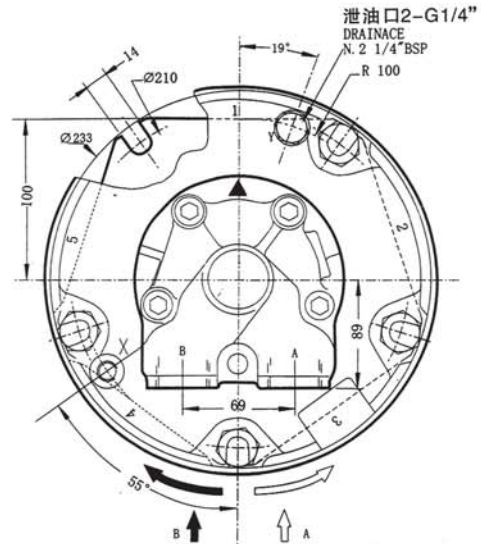
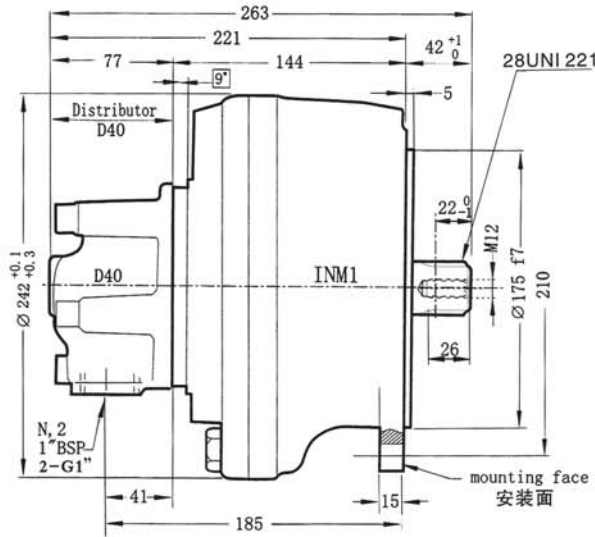
该图表适用配置滚柱轴承（代号H）的马达。

注意轴承平均寿命（ B_{50} 寿命）大约是 B_{10} 寿命的5倍。



6. INM1系列液压马达 INM1 Series Hydraulic Motors

DIMENSIONS

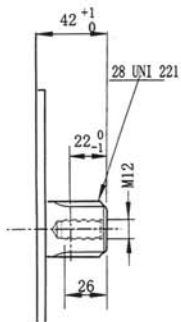


Flange and shaft dimensions are the same as for GM1, M1 and P1 series motors

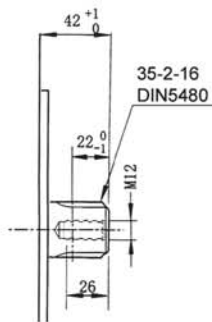
法兰和轴承尺寸与GM1、M1和P1马达系列相同

SHAFTS 轴伸型式

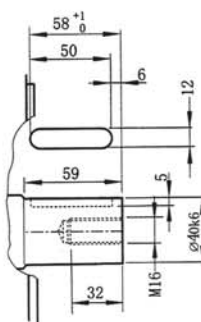
Splined
矩形外花键



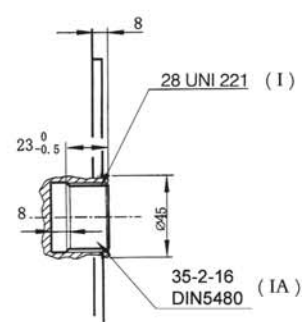
Splined A
渐开线外花键 A



Cylindrical B
圆柱平键 B



Internal spline I, IA
内花键 I, IA

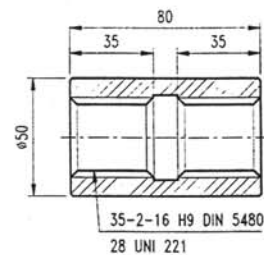


SPLINE DATA - 花键参数

35-2-16 DIN 5480		28 UNI 221 (6-28-34 DIN 5463)	
	d0	$\varnothing 32.0$	
	d1	$\varnothing 35.0^{+0.020}_{-0.020}$ H14	d1
	d2	$\varnothing 31.0^{+0.160}_{-0.020}$ H11	d2
	A	3.5	A
	da	$\varnothing 27.711$ H11	
	d3	$\varnothing 34.6^{+0.020}_{-0.160}$ h11	d3
	d4	$\varnothing 30.6^{+0.020}_{-0.020}$ h14	d4
	B	4.0	B
	db	$\varnothing 39.000$ f8	
			d1
			d2
			d3
			d4
			B

ADAPTORS

联轴器

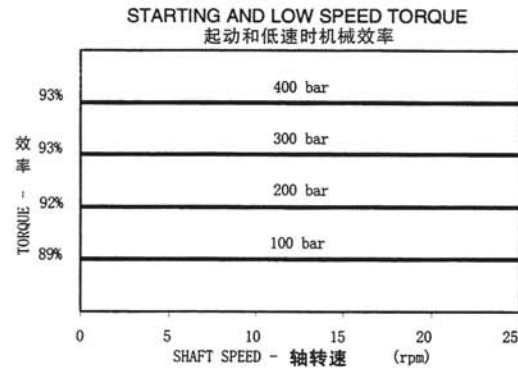
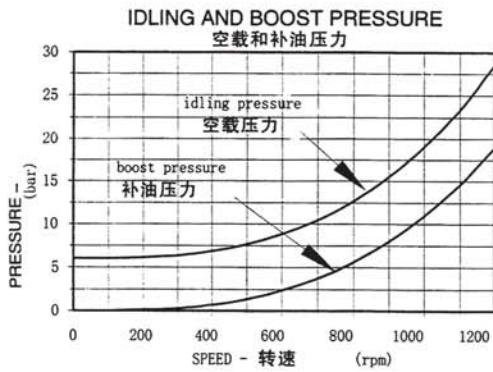
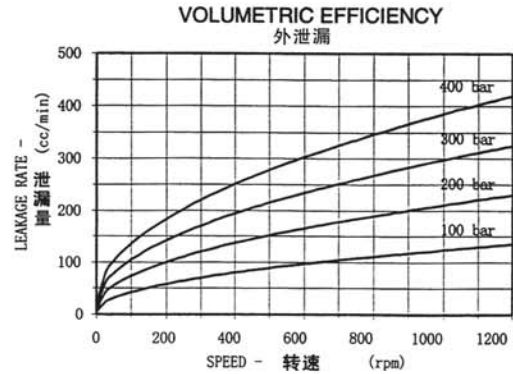
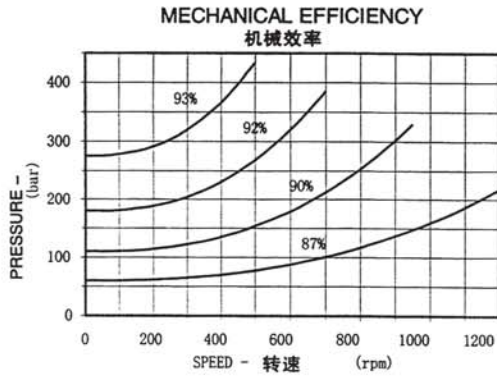


PERFORMANCE

The graphs indicate the typical performance characteristics of the **150 cc** motor operating with mineral oil with viscosity 40 cSt at 50 °C.

特性曲线

下列图表为排量**150cc**的马达，在工作液采用矿物油，粘度40cSt,油温50°C工作时的典型特性曲线。

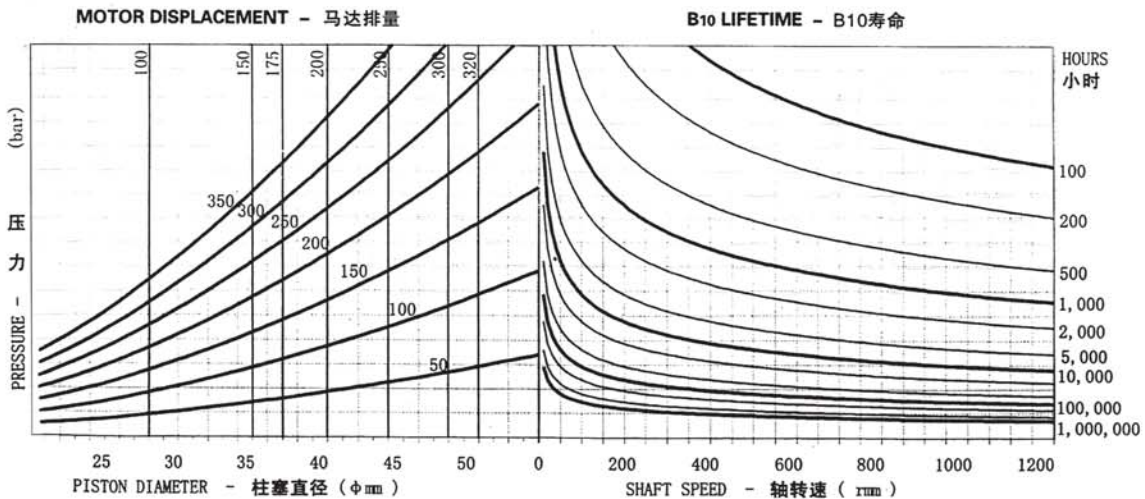


BEARING LIFETIME

The graph refers to the motor with the optional roller bearings (option H) recommended for most applications. Note that the average lifetime of a bearing (B_{50} lifetime) is approximately 5 times the B_{10} lifetime.

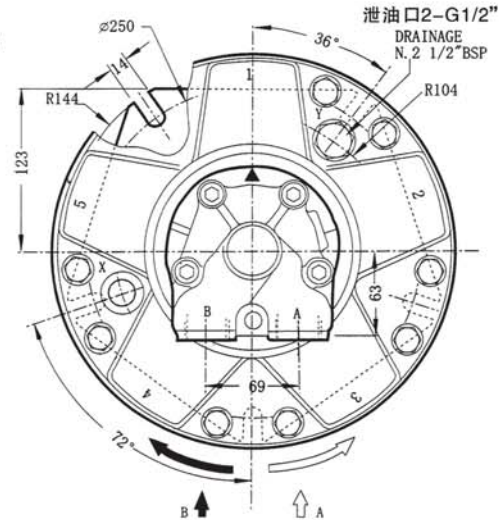
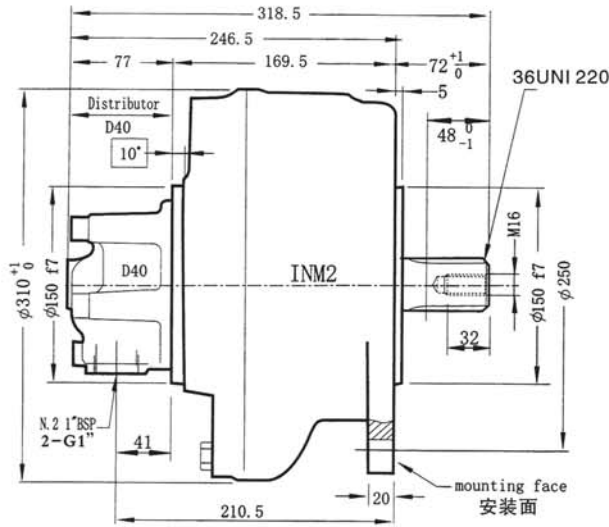
轴承寿命

该图表适用配置滚柱轴承(代号H)的马达，大多数情况下推荐使用。注意轴承平均寿命(B_{50} 寿命)大约是 B_{10} 寿命的5倍。



7. INM2系列液压马达 INM2 Series Hydraulic Motors

DIMENSIONS

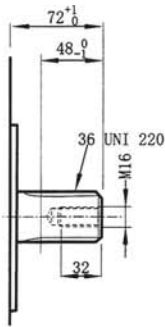


Flange and shaft dimensions are the same as for GM2, M3 and P3 series motors.

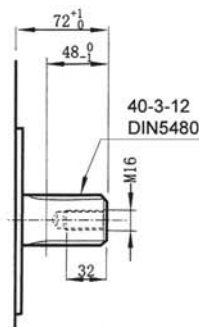
法兰和轴承尺寸与GM2、M3和P3马达系列相同

SHAFTS 轴伸型式

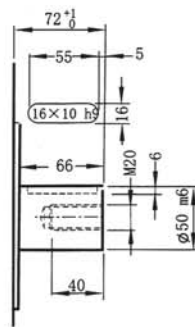
Splined
矩形外花键



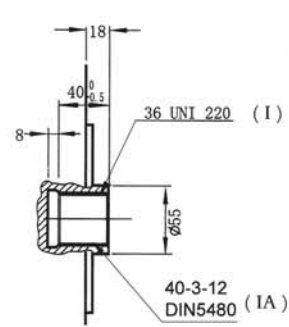
Splined A
渐开线外花键 A



Cylindrical B
圆柱平键 B



Internal spline I, IA
内花键 I, IA

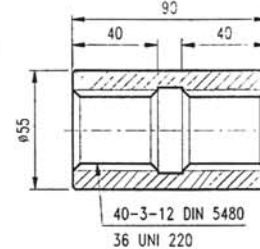


SPLINE DATA - 花键参数

40-3-12 DIN 5480	
	d0 $\varnothing 36.0$
	d1 $\varnothing 40.0 \begin{smallmatrix} -0.020 \\ -0.025 \end{smallmatrix} H14$
	d2 $\varnothing 34.0 \begin{smallmatrix} -0.160 \\ -0.160 \end{smallmatrix} H11$
	A $\varnothing 5.25$
	da $\varnothing 28.964 H11$
	d3 $\varnothing 39.4 \begin{smallmatrix} -0.160 \\ -0.160 \end{smallmatrix} h11$
	d4 $\varnothing 33.4 \begin{smallmatrix} -0.020 \\ -0.020 \end{smallmatrix} h14$
	B $\varnothing 6.0$
	db $\varnothing 45.989 f8$

36 UNI 220 (DIN 5462)	
	d1 $\varnothing 36.0 \begin{smallmatrix} +0.025 \\ +0.025 \end{smallmatrix} H7$
	d2 $\varnothing 40.0 \begin{smallmatrix} +0.160 \\ +0.160 \end{smallmatrix} H11$
	A $7.0 \begin{smallmatrix} +0.028 \\ +0.028 \end{smallmatrix} F7$
	d3 $\varnothing 36.0 \begin{smallmatrix} -0.009 \\ -0.025 \end{smallmatrix} g6$
	d4 $\varnothing 40.0 \begin{smallmatrix} -0.065 \\ -0.160 \end{smallmatrix} d11$
	B $7.0 \begin{smallmatrix} -0.028 \\ -0.028 \end{smallmatrix} f7$

ADAPTORS
联轴器

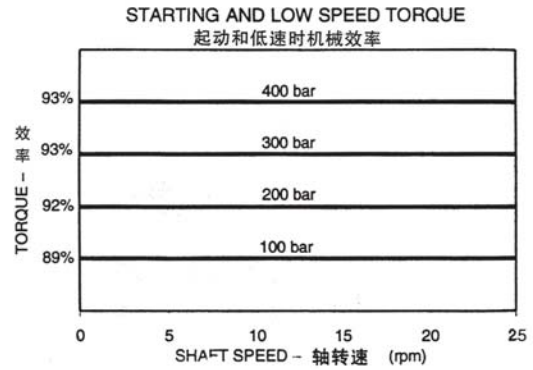
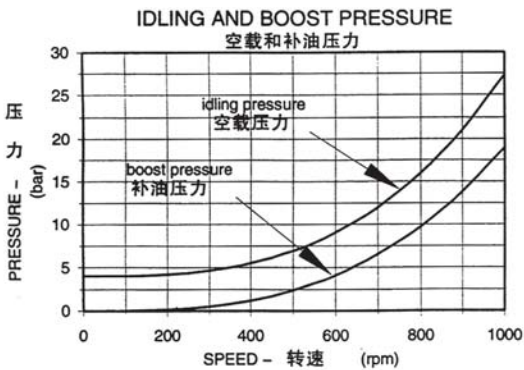
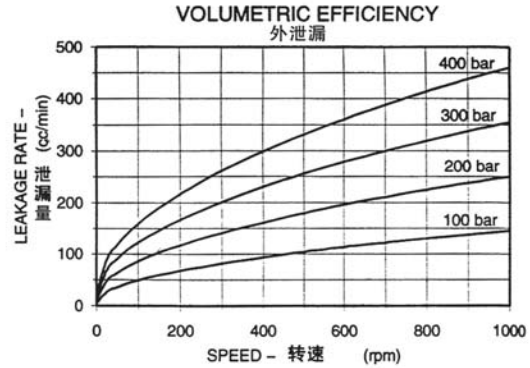
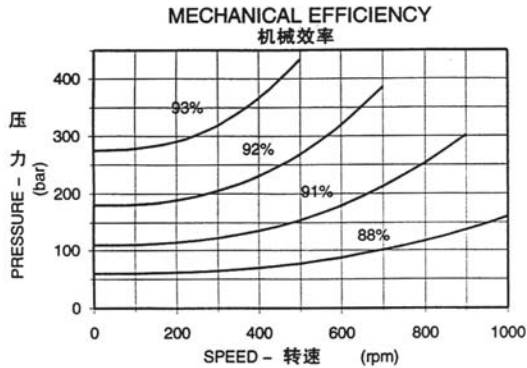


PERFORMANCE

The graphs indicate the typical performance characteristics of the 300cc motor operating with mineral oil with viscosity 40 cSt at 50 °C.

特性曲线

下列图表为排量300cc的马达，在工作液采用矿物油，粘度40cSt,油温50℃工作时的典型特性曲线。

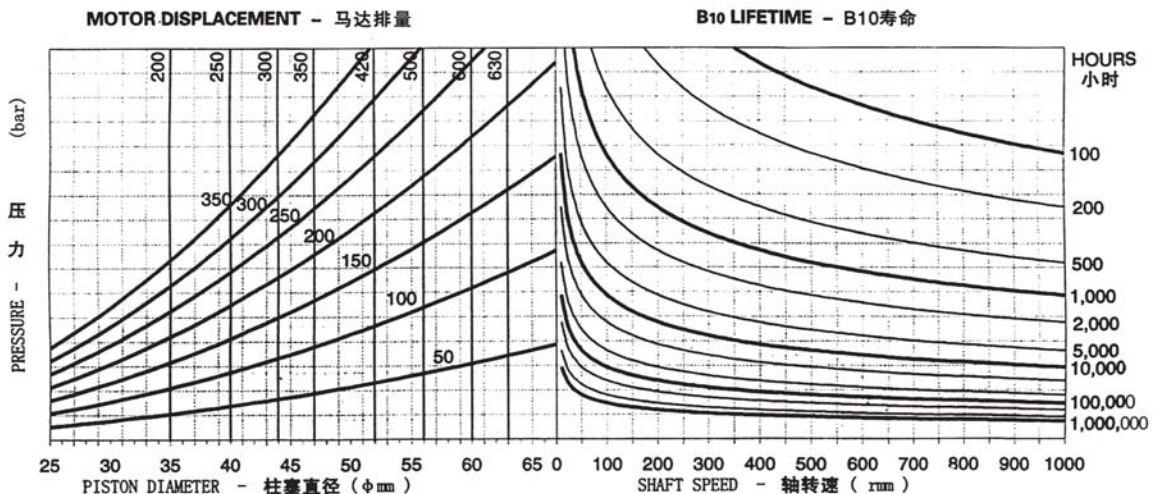


BEARING LIFETIME

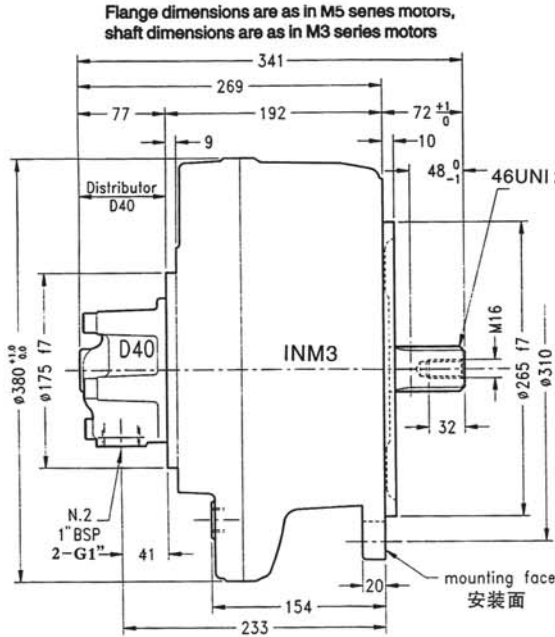
The graph refers to the motor with the optional roller bearings (option H) recommended for most applications. Note that the average lifetime of a bearing (B_{50} lifetime) is approximately 5 times the B_{10} lifetime.

轴承寿命

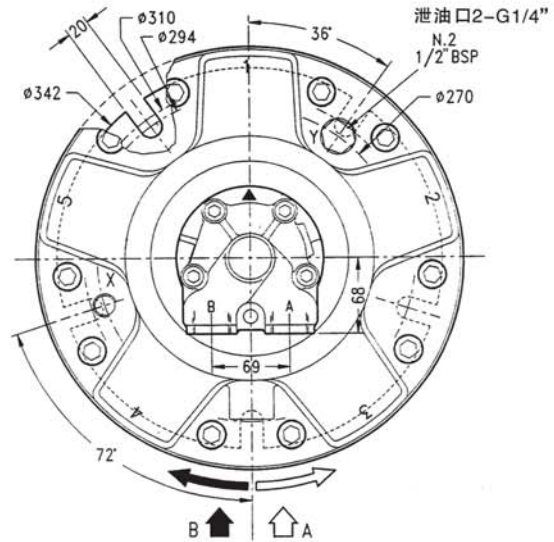
该图表适用配置滚柱轴承（代号H）的马达，大多数情况下推荐使用。
注意轴承平均寿命（ B_{50} 寿命）大约是 B_{10} 寿命的5倍。



8. INM 3系列液压马达 INM3 Series Hydraulic Motors



法兰和轴承尺寸与 M5系列马达系列相同。
轴尺寸与M3系列马达相同。

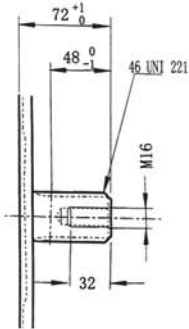


Available also GM3 completely interch.

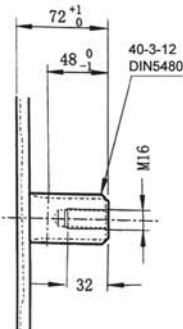
外形尺寸尺寸完全适用 GM3，

SHAFTS 轴伸型式

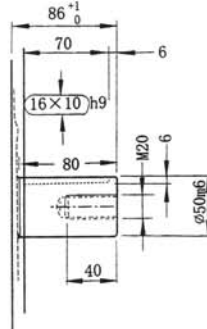
Splined
矩形外花键



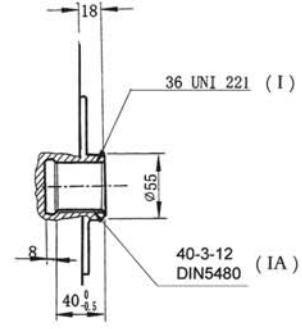
Splined A
渐开线外花键 A



Cylindrical B
圆柱平键 B



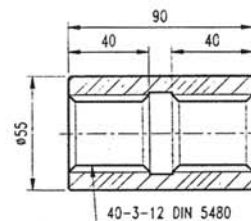
Internal spline I, IA
内花键 I, IA



SPLINE DATA - 花键参数

40-3-12 DIN 5480		46 UNI 221 (8-46-54 DIN 5463)	
	d0 $\varnothing 36.0$		d1 $\varnothing 46.0^{+0.030}_{+0} H7$
d1 $\varnothing 40.0^{+0.620}_{+0} H14$	d2 $\varnothing 34.0^{+0.160}_{+0} H11$	A 9.0 $^{+0.028}_{-0} F7$	d2 $\varnothing 54.0^{+0.190}_{+0} H11$
d2 $\varnothing 34.0^{+0.160}_{+0} H11$	A 5.25	d3 $\varnothing 46.0^{-0.009}_{-0.025} g6$	d3 $\varnothing 46.0^{-0.009}_{-0.025} g6$
da $\varnothing 28.964 H11$	d3 $\varnothing 39.4^{+0}_{-0.160} h11$	d4 $\varnothing 54.0^{-0.100}_{-0.290} d11$	d4 $\varnothing 54.0^{-0.100}_{-0.290} d11$
d3 $\varnothing 39.4^{+0}_{-0.160} h11$	d4 $\varnothing 33.4^{+0}_{-0.620} h14$	B 9.0 $^{+0.028}_{-0} f7$	B 9.0 $^{+0.028}_{-0} f7$
d4 $\varnothing 33.4^{+0}_{-0.620} h14$	B $\varnothing 6.0$	db $\varnothing 45.989 f8$	
B $\varnothing 6.0$			
db $\varnothing 45.989 f8$			

ADAPTORS 联轴器

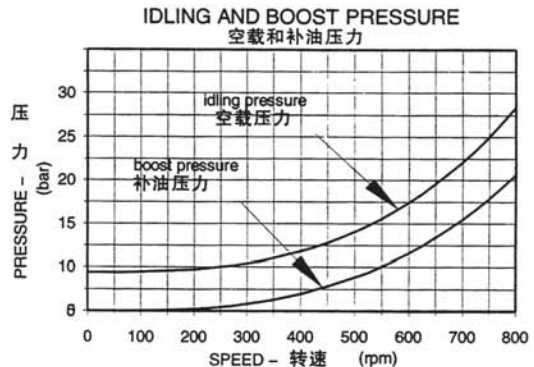
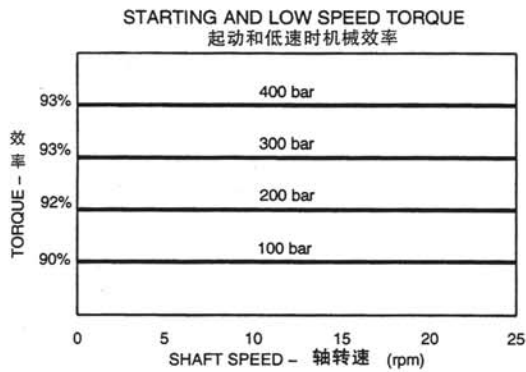
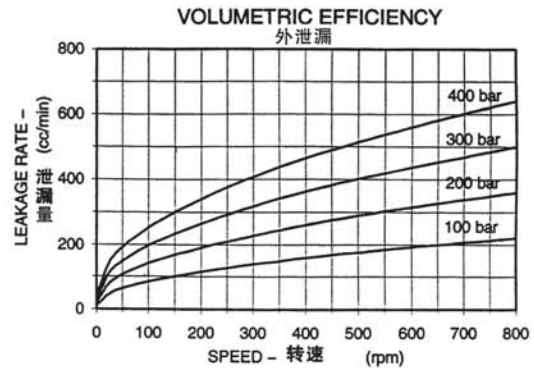
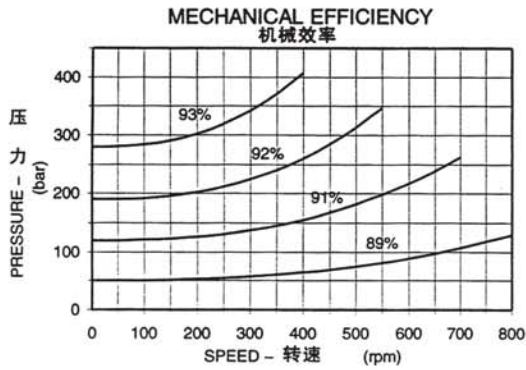


PERFORMANCE

The graphs indicate the typical performance characteristics of the **600cc** motor operating with mineral oil with viscosity 40.cSt at 50 °C.

特性曲线

下列图表为排量**600cc**的马达，在工作液采用矿物油，粘度40cSt,油温50°C工作时的典型特性曲线。



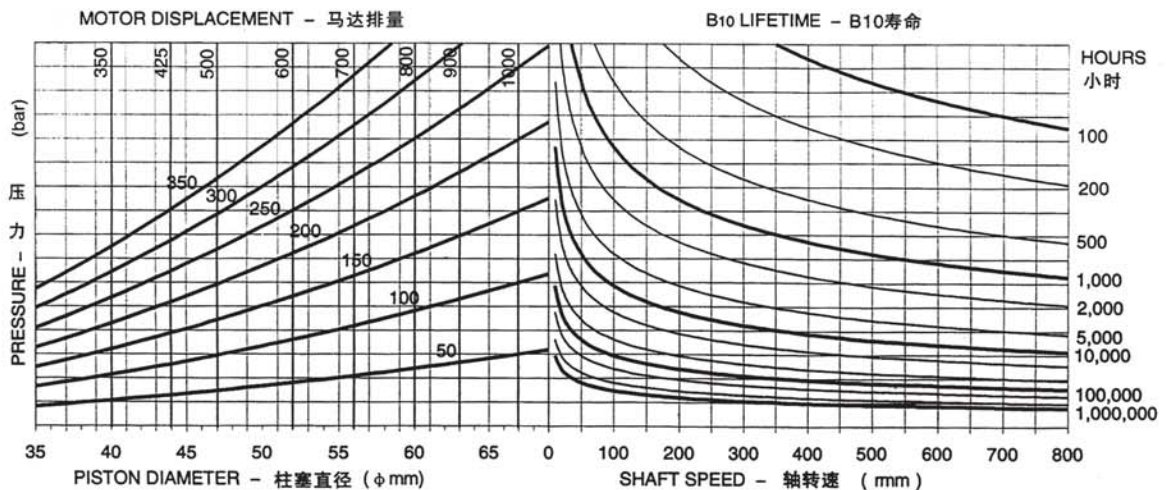
BEARING LIFETIME

The graph refers to the motor with the standard roller bearings.
Note that the average lifetime of a bearing (B_{50} lifetime) is approximately 5 times the B_{10} lifetime.

轴承寿命

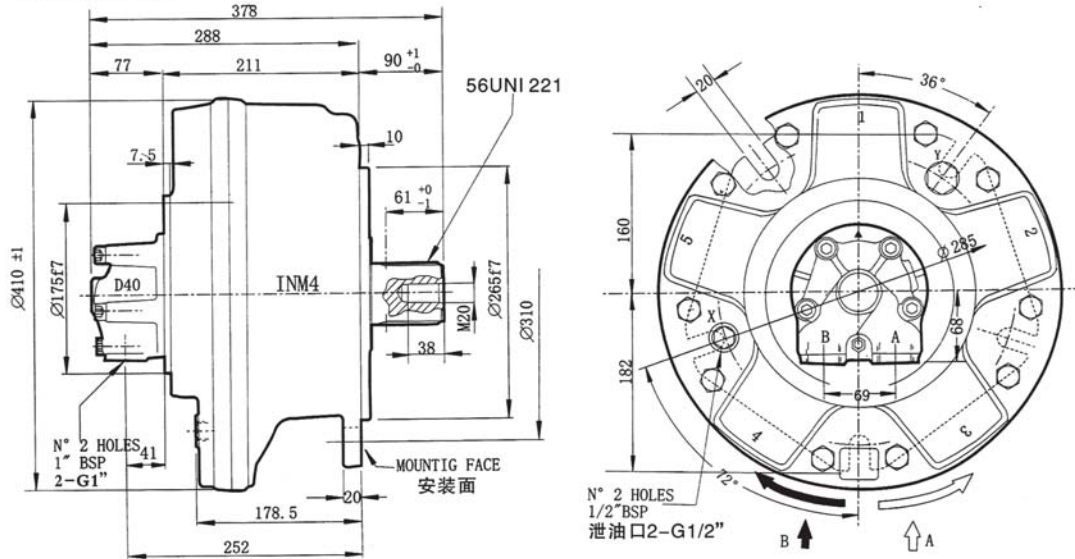
该图表适用配置滚柱轴承的马达。

注意轴承平均寿命 (B_{50} 寿命) 大约是 B_{10} 寿命的5倍。



9. INM 4系列液压马达 INM4 Series Hydraulic Motors

DIMENSIONS

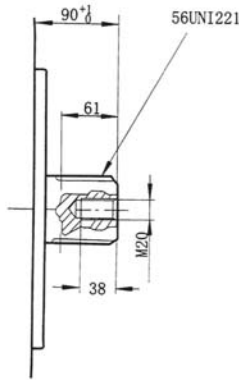


Flange and shaft dimensions are as in GM4, M5 series motors

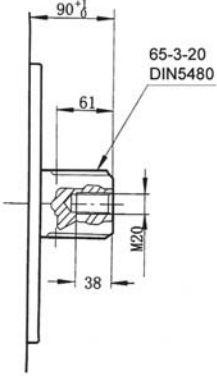
法兰和轴承尺寸与 GM4、M5 马达系列相同

SHAFTS 轴伸型式

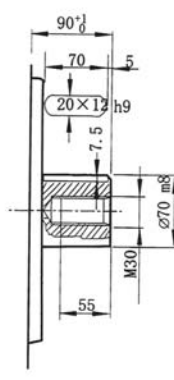
Splined
矩形外花键



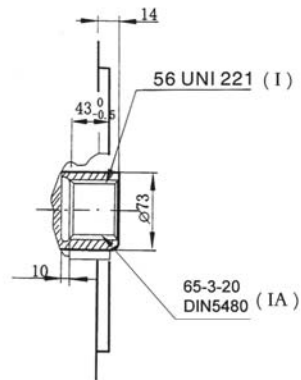
Splined A
渐开线外花键 A



Cylindrical B
圆柱平键 B



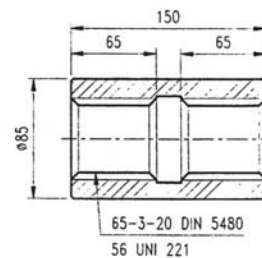
Internal spline I, IA
内花键 I, IA



SPLINE DATA - 花键参数

DIN	65-3-20 DIN 5480	55-2-26 DIN 5482	55-3-17 DIN 5480	56 UNI 221
d_0	$\varnothing 60.0$	$\varnothing 52.0$	$\varnothing 51.0$	$d_1 \varnothing 56.0^{+0.030}_{+0} H7$
d_1	$\varnothing 65.0^{+0.740}_{+0} H14$	$\varnothing 55.0^{+0.300}_{+0} H12$	$\varnothing 55.0^{+0.740}_{+0} H14$	$d_2 \varnothing 65.0^{+0.190}_{+0} H11$
d_2	$\varnothing 59.0^{+0.190}_{+0} H11$	$\varnothing 50.0^{+0.160}_{+0} H11$	$\varnothing 49.0^{+0.160}_{+0} H11$	A $\varnothing 10.0^{+0.028}_{+0.013} F7$
A	$\varnothing 5.25$	$\varnothing 3.5$	$\varnothing 5.25$	$d_3 \varnothing 56.0^{+0.010}_{-0.029} g8$
d_a	$\varnothing 54.101$ H11	$\varnothing 46.902$ H10	$\varnothing 43.807$ H11	$d_4 \varnothing 65.0^{+0.190}_{-0.190} d11$
d_3	$\varnothing 64.4^{+0}_{-0.190} h11$	$\varnothing 54.5^{+0}_{-0.190} h11$	$\varnothing 54.4^{+0}_{-0.190} h11$	B $\varnothing 10.0^{+0.028}_{-0.013} f7$
d_4	$\varnothing 58.4^{+0}_{-0.740} h14$	$\varnothing 49.0^{+0}_{-0.300} h12$	$\varnothing 48.4^{+0}_{-0.820} h14$	
B	$\varnothing 6.0$	$\varnothing 3.5$	$\varnothing 6.0$	
d_b	$\varnothing 70.999$ f8	$\varnothing 56.953$ e9	$\varnothing 60.873$ f8	

ADAPTORS 联轴器

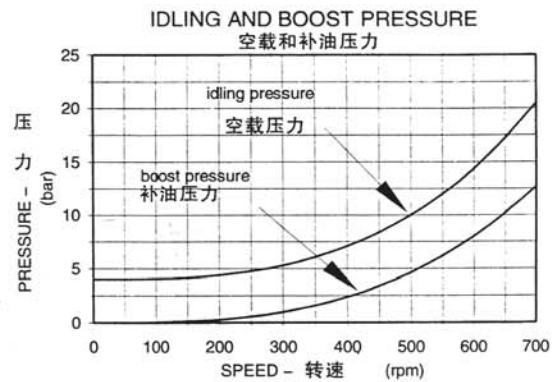
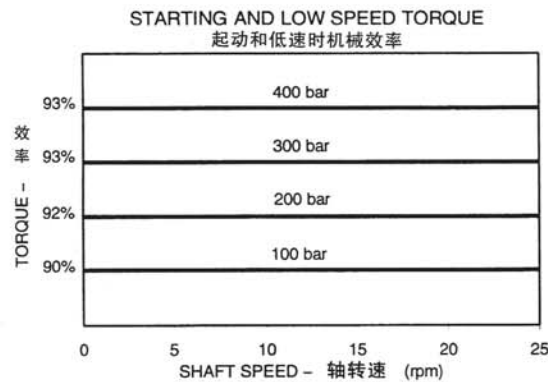
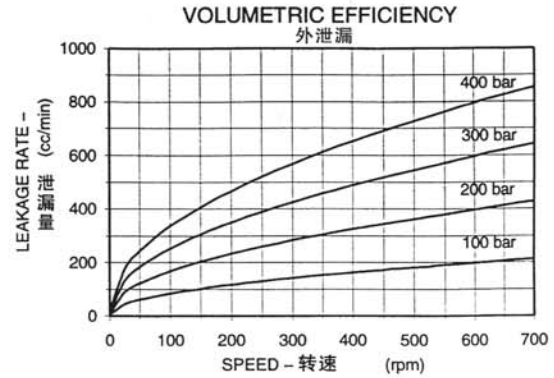
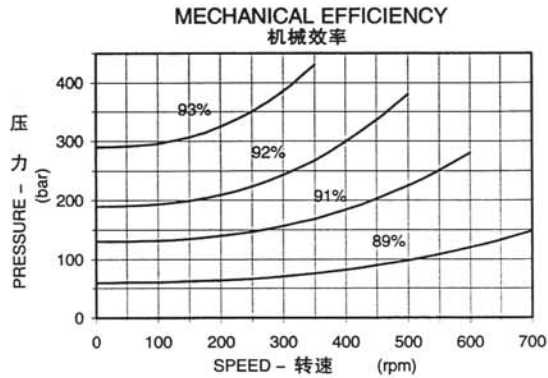


PERFORMANCE

The graphs indicate the typical performance characteristics of the **900 cc** motor operating with mineral oil with viscosity 40 cSt at 50 °C.

特性曲线

下列图表为排量**900cc**的马达，在工作液采用矿物油粘度40cSt,油温50°C工作时的典型特性曲线。



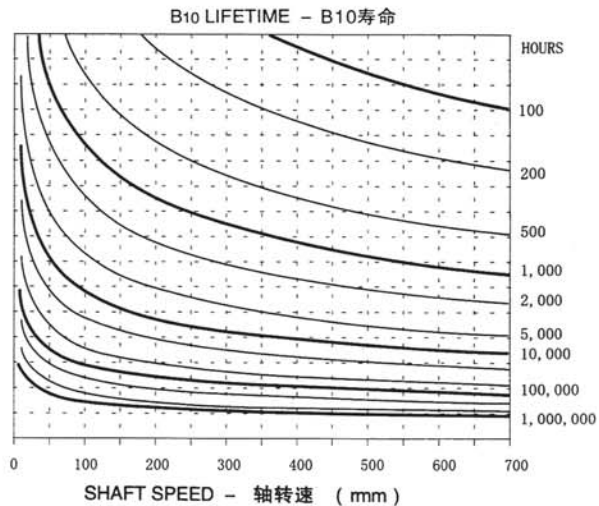
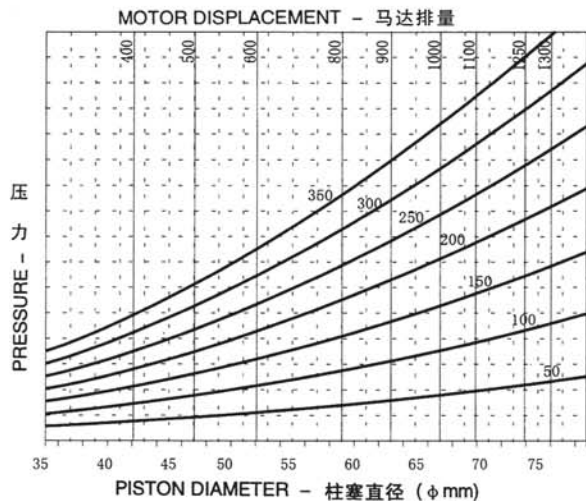
BEARING LIFETIME

The graph refers to the motor with the standard roller bearings. Note that the average lifetime of a bearing (B_{50} lifetime) is approximately 5 times the B_{10} lifetime.

轴承寿命

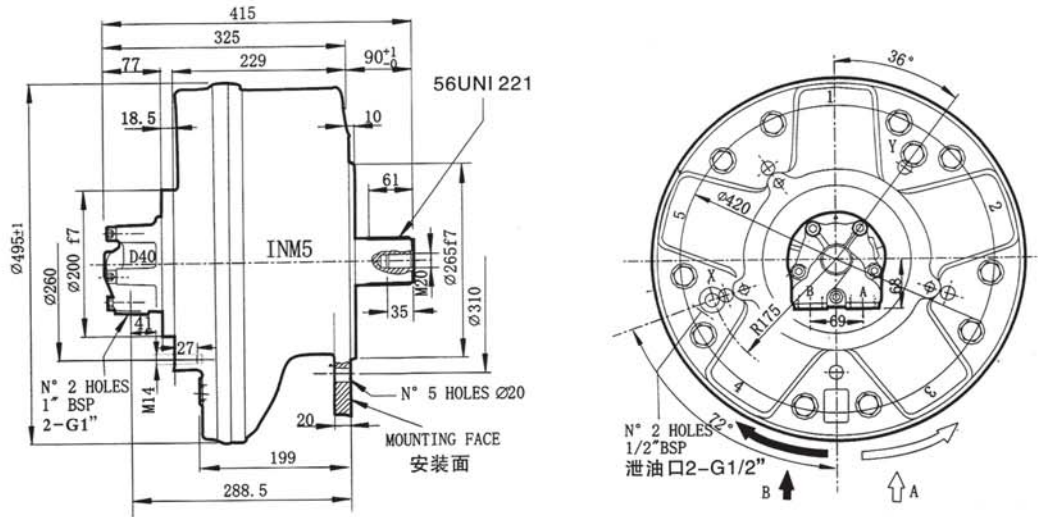
该图表适用配置滚柱轴承的马达。

注意轴承平均寿命 (B_{50} 寿命) 大约是 B_{10} 寿命的5倍



10. INM 5系列液压马达 INM5 Series Hydraulic Motors

DIMENSIONS

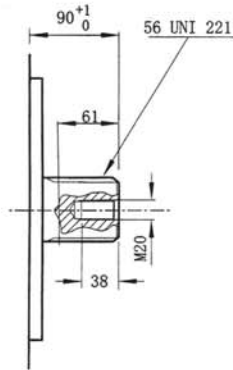


Flange and shaft dimensions are as in GM5, M5 series motors

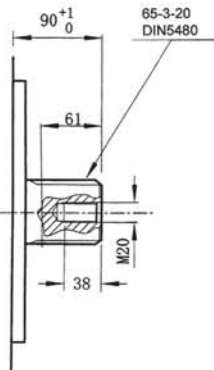
法兰和轴承尺寸与GM5、M5 马达系列相同

SHAFTS 轴伸型式

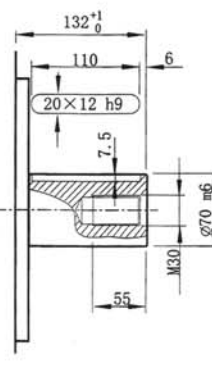
Splined
矩形外花键



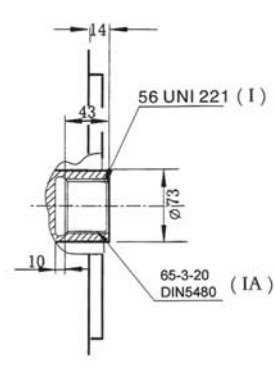
Splined A
渐开线外花键 A



Cylindrical B
圆柱平键 B



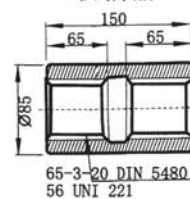
Internal spline I, IA
内花键 I, IA



SPLINE DATA - 花键参数

DIN	65-3-20 DIN 5480	55-2-26 DIN 5482	55-3-17 DIN 5480	56 UNI221
d0	∅60.0	∅52.0	∅51.0	d1 ∅56.0 +0.030 H7
d1	∅65.0 +0.740 H14	∅55.0 +0.300 H12	∅55.0 +0.740 H14	d2 ∅65.0 +0.190 H11
d2	∅59.0 +0.190 H11	∅50.0 +0.160 H11	∅49.0 +0.160 H11	A 10.0 +0.028 +0.013 F7
A	∅5.25	∅3.5	∅5.25	d3 ∅56.0 -0.010 -0.025 g6
da	∅54.101 H11	∅46.902 H10	∅43.807 H11	d4 ∅65.0 -0.100 -0.190 d11
d3	∅64.4 -0.190 h11	∅54.5 -0.190 h11	∅54.4 -0.190 h11	B 10.0 -0.013 -0.028 f7
d4	∅58.4 -0.740 h14	∅49.0 -0.300 h12	∅48.4 -0.620 h14	
B	∅6.0	∅3.5	∅6.0	
db	∅70.999 f8	∅56.953 e9	∅60.873 f8	

ADAPTORS
联轴器

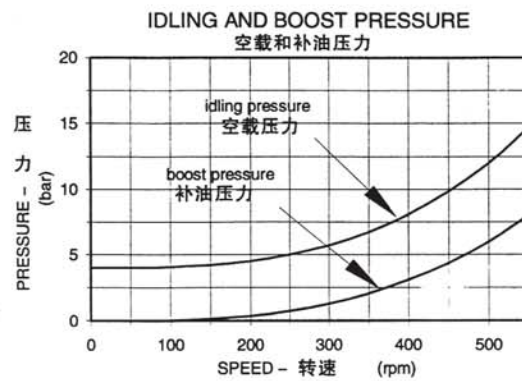
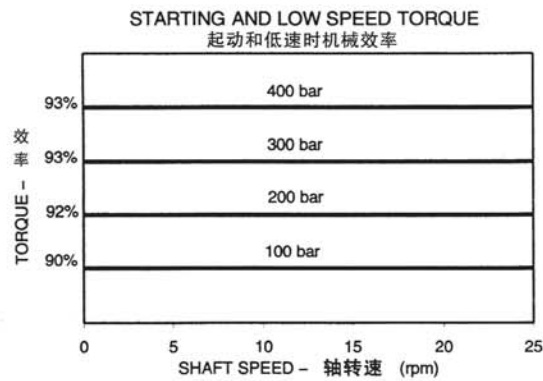
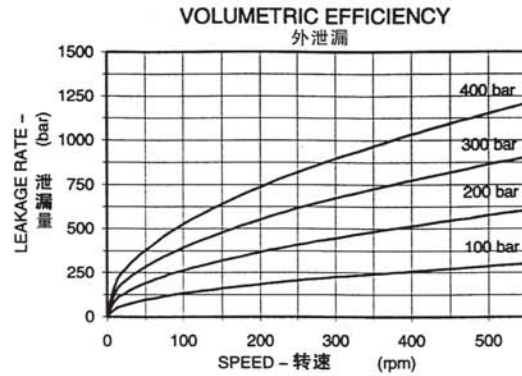
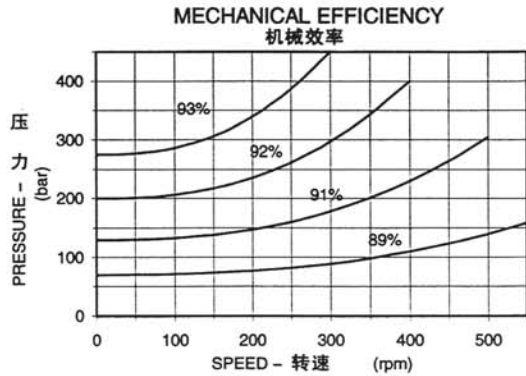


PERFORMANCE

The graphs indicate the typical performance characteristics of the **1200cc** motor operating with mineral oil with viscosity 40 cSt at 50 °C.

特性曲线

下列图表为排量**1200cc**的马达，在工作液采用矿物油，粘度40cSt,油温50℃工作时的典型特性曲线。



BEARING LIFETIME

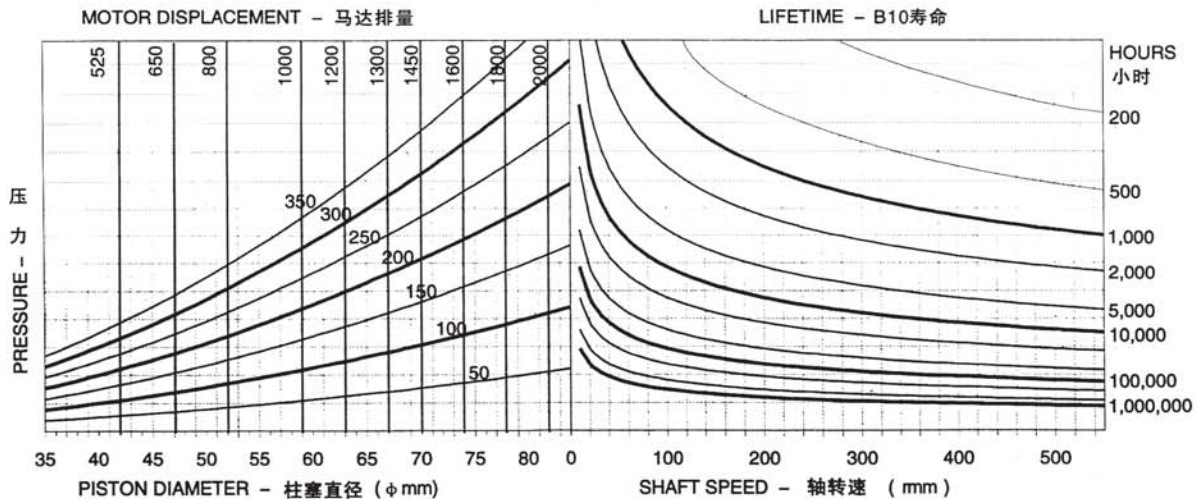
The graph refers to the motor with the standard roller bearings.

Note that the average lifetime of a bearing (B_{50} lifetime) is approximately 5 times the B_{10} lifetime.

轴承寿命

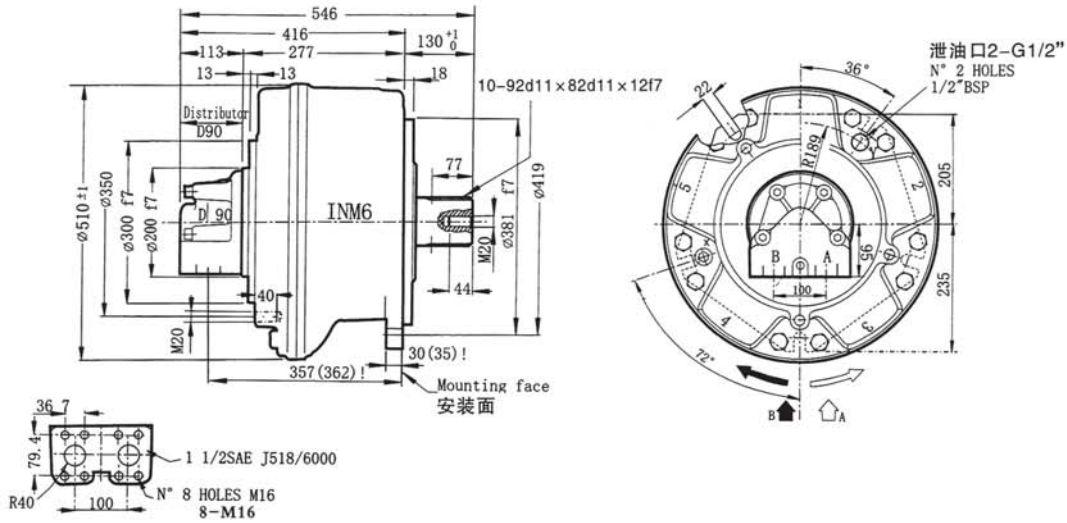
该图表适用配置滚柱轴承的马达。

注意轴承平均寿命 (B_{50} 寿命) 大约是 B_{10} 寿命的5倍。



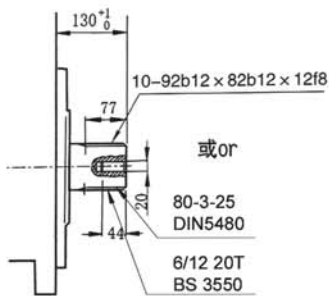
11. INM 6系列液压马达 INM6 Series Hydraulic Motors

DIMENSIONS

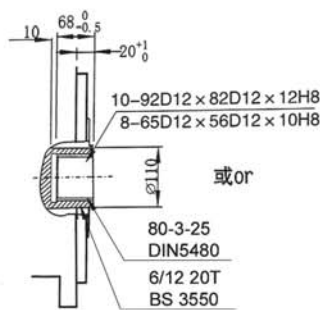


SHAFTS 轴伸型式

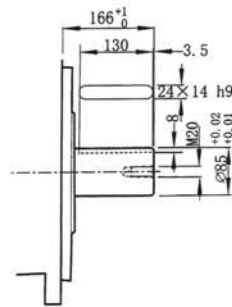
Splined
矩形外花键、渐开线外花键 A



Internal spline I, IA
内花键 I, IA
BEARING OPTION E ONLY
只能配置E型轴承



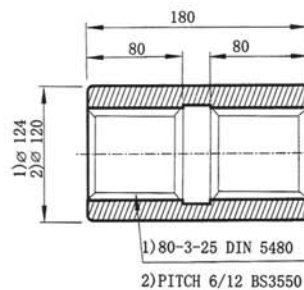
Cylindrical B
圆柱平键 B
BEARING OPTION E ONLY
只能配置E型轴承



SPLINE DATA - 花键参数

DIN	80-3-25 DIN 5480	pitch 6/12 BS 3550
d0	∅ 75.0	A ∅ 88.0 -0.047 -0.17
d1	∅ 80.0 +0.870 +0 H14	B ∅ 84.6
d2	∅ 74.0 +0.190 +0 H11	C ∅ 80.0 -0.480 -0.070
A	∅ 5.25	D ∅ 97.0 +0.082 +0.030
da	∅ 68.9 H9	E ∅ 8.12
d3	∅ 79.4 -0 -0.190 h11	
d4	∅ 73.4 -0 -0.870 h14	
B	∅ 6-0	
db	∅ 85.9 f8	

ADAPTORS 联轴器

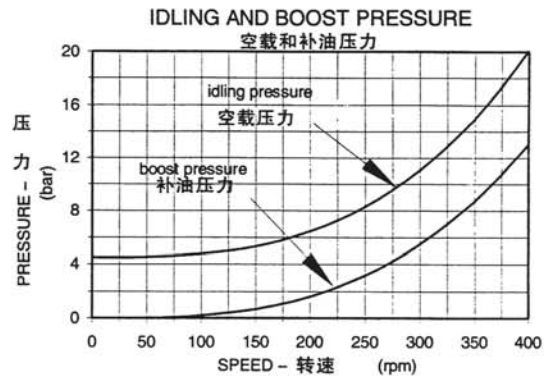
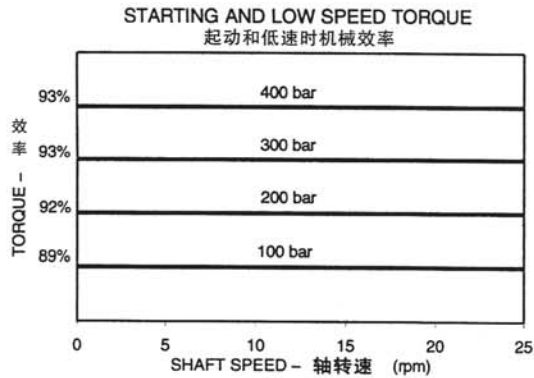
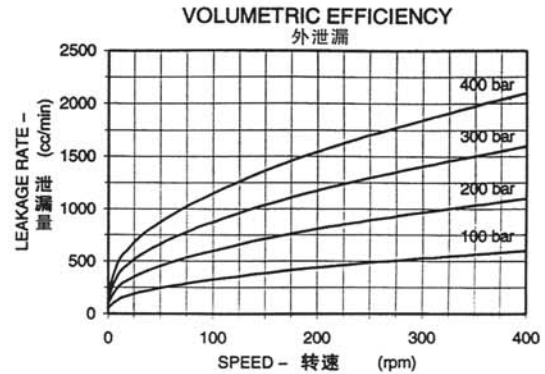
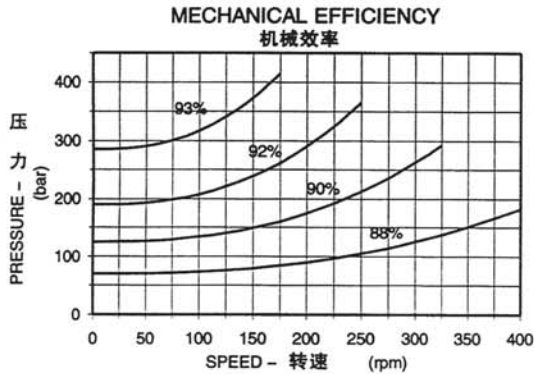


PERFORMANCE

The graphs indicate the typical performance characteristics of the 2500cc motor operating with mineral oil with viscosity 40 cSt at 50 °C.

特性曲线

下列图表为排量2500cc的马达，在工作液采用矿物油，粘度40cSt,油温50°C工作时的典型特性曲线。



BEARING LIFETIME

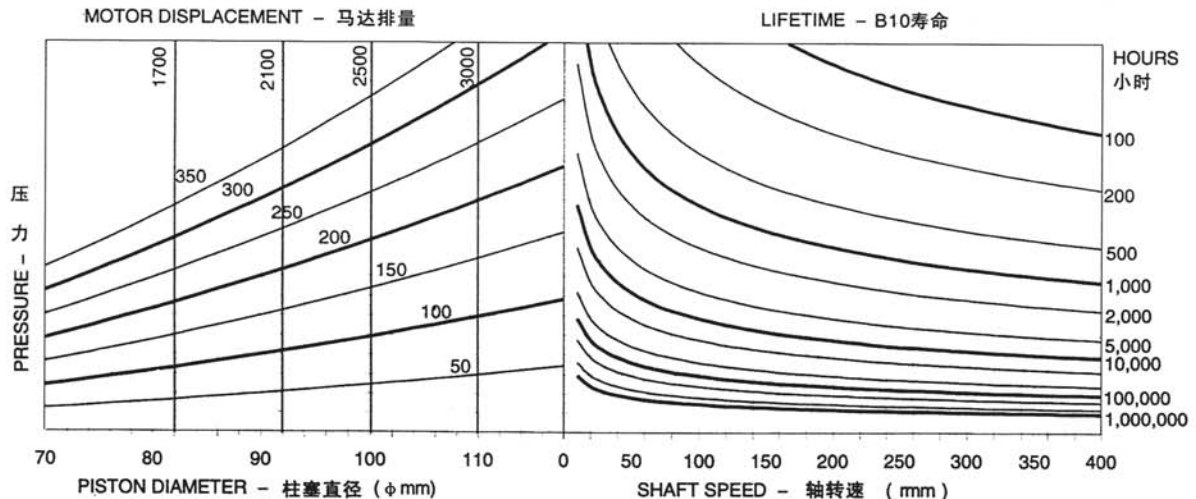
The graph refers to the motor with the standard spherical roller bearings.

Note that the average lifetime of a bearing (B_{50} lifetime) is approximately 5 times the B_{10} lifetime.

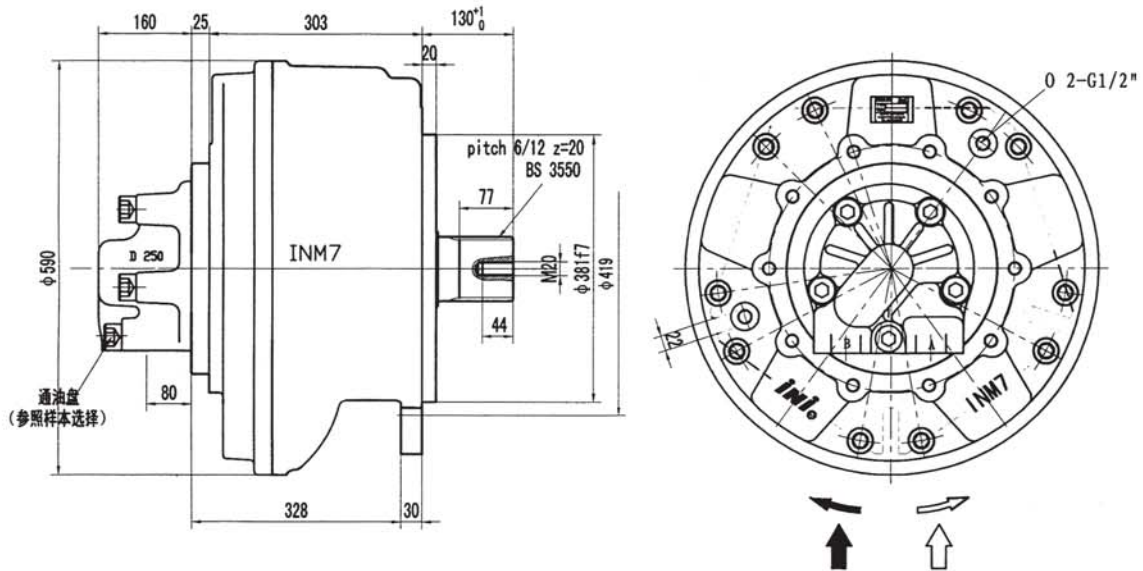
轴承寿命

该图表适用配置滚柱轴承的马达。

注意轴承平均寿命 (B_{50} 寿命) 大约是 B_{10} 寿命的5倍。

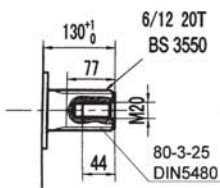


12. INM7系列液压马达安装连接尺寸图 INM7 SERIES HYDRAULIC DIMENSIONS OF CONNECTION

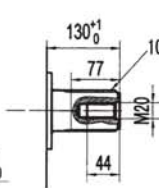


输出轴样式 SHAFTS

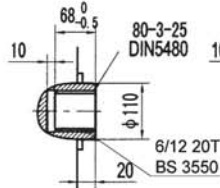
渐开线外花键
Splined BS3550



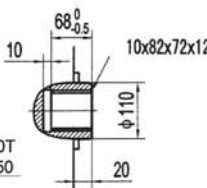
矩形外花键
Rectangle Splined



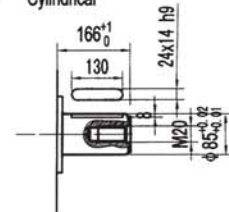
渐开线内花键
Internal spline DIN5480



矩形内花键
Rectangle internal spline



平键
Cylindrical



花键参数 SPLINE DATA

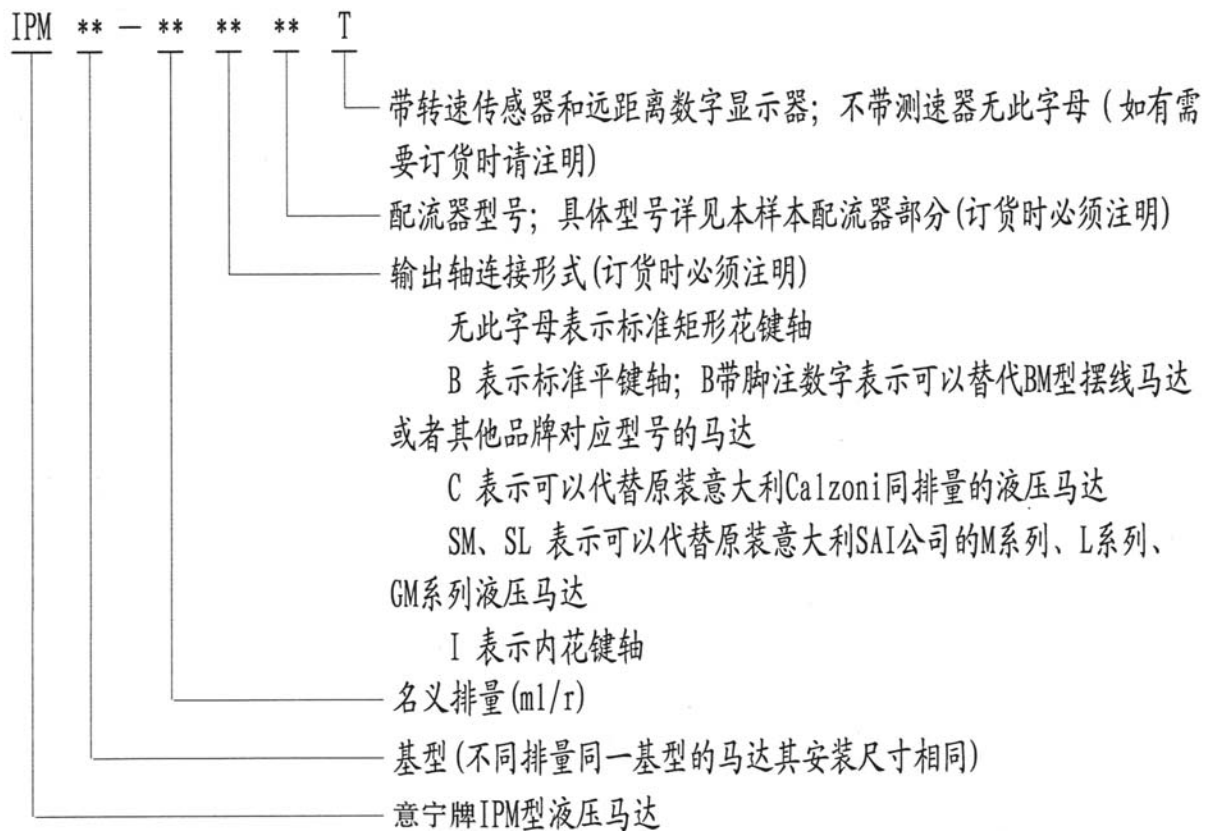
Diagram	80-3-25 DIN 5480		pitch 6/12 BS 3550	
	Parameter	Value	Parameter	Value
	d0	φ 75.0	A	φ 88.0 ^{-0.047} / _{-0.17}
	d1	φ 80.0 H14	B	φ 84.6
	d2	φ 74.0 H11	C	φ 80.0 ^{-0.480} / _{-0.070}
	A	φ 5.25	D	φ 97.0 ^{+0.082} / _{+0.030}
	da	φ 68.9 H9	E	φ 8.12
	d3	φ 79.4 h11		
	d4	φ 73.4 h14		
	B	φ 6.0		
	db	φ 85.9 f8		

五、IPM系列液压马达

1. 概述

IPM系列马达是本公司吸收了国内外同类产品的诸多优点，并结合自身十几年的实践经验而开发出来的新型产品。它具有同系列产品排量范围广，可替换性强（大量非标定做产品可供选择，可以代替国内外其他品牌），结实耐用，美观大方等特点。

2. 型号说明



3. 型号举例

IPM3-300D31表示基型为3系列的IPM马达，名义排量为300ml/r，输出轴为标准矩形外花键轴，配流器型号为D31，不带测速装置。订货时请按此填写完整的型号，若有特殊要求请在订货合同中详细说明。

注：1. 我公司生产的IPM系列液压马达可以代替相同排量的Intermot、Calzoni、Staffa、SAI等国外品牌以及英特姆、必乐士、中意等国内品牌。

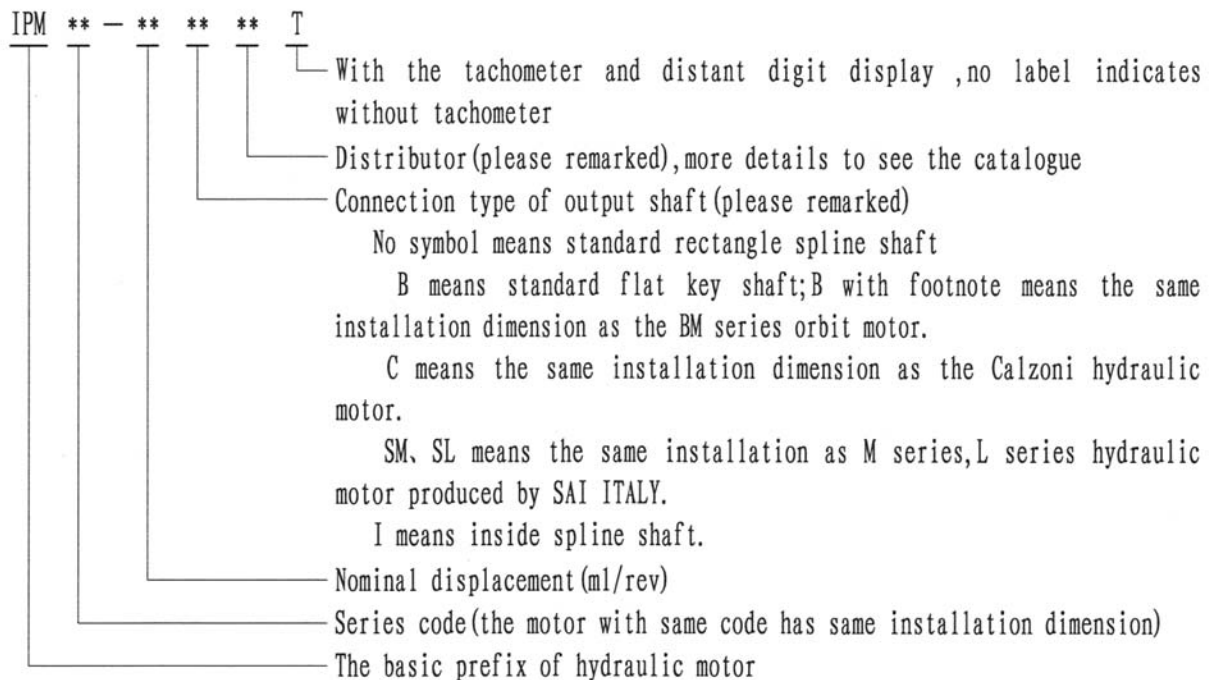
2. 如客户有特殊的非标准安装尺寸的液压马达定做，我公司可以提供技术支持，订货前请与我公司取得联系。

● IPM Series Hydraulic Motors

1. Brief Introduction

IPM series motors are new products, developed by combining advantages of similar products at home and abroad with practical experience of our company accumulated over one decade. PM series motors are characterized by wide range of displacement, great interchangeability (We produce lots of non-standards products, which can replace similar products at home and abroad.), great durability and good design.

2. Model options



3. Options example

IPM3-300D31 represents that the motor is the 3 series unit of IPM hydraulic motor, The nominal displacement is 300ml/rev, the output shaft is standard rectangle spline shaft, and distributor model is D31 without tachometer. Please fill in the complete code options when ordering. If there are any specific requests, please noted in detail in delivery contract or contact our company.

Notes:

1. IPM series motors can replace motors of same displacement produced by intermot, Calzoni, Staffa, SAI, and domestic brands, such as BIGNOZZI and Zhongyi.
2. If customers want to purchase hydraulic motors with non-standard installing dimension, we can offer technical support to customers. Please contact us before place an order.

4. IPM系列液压马达技术性能参数

型号 TYPE	理论排量(ml/r) THEORIC DISPLACEMENT	额定压力(MPa) RATED PRESSURE	尖峰压力(MPa) PEAK PRESSURE	额定扭矩(N·m) RATED TORQUE	单位扭矩(N·m/MPa) SPECIFIC TORQUE	转速范围(r/min) SPEED RANGE	最大功率(kW) Max POWER	重量(kg) WEIGHT
IPM1-50	56	20	28	178	8.90	15-1000	15	23
IPM1-63	64	20	28	203	10.15	15-900		
IPM1-80	76.9	20	28	244	12.20	15-800		
IPM1-100	100	20	25	318	15.90	15-750		
IPM1-125	124	16	24	305	19.06	15-650		
IPM1-150	157	16	24	398	24.88	15-500		
IPM1-160	179	16	24	456	28.50	15-450		
IPM1-200	194	16	24	492	30.75	15-400		
IPM2-125	124	20	28	394	19.70	8-700	22	31
IPM2-150	151	20	28	480	24.00	8-650		
IPM2-175	180	16	25	457	28.56	8-600		
IPM2-200	206	16	25	523	32.69	8-550		
IPM2-250	235	16	25	598	37.38	8-500		
IPM2-280	276	16	24	702	43.88	8-450		
IPM2-300	318	16	24	809	50.56	8-400		
IPM3-175	181	20	30	578	28.90	7-800	36	39
IPM3-200	201	20	30	640	32.00	7-700		
IPM3-250	254	20	30	810	40.50	7-600		
IPM3-300	289	20	30	920	46.00	7-500		
IPM3-350	339	16	25	864	54.00	6-420		
IPM3-400	403	16	25	1027	64.19	6-350		
IPM3-420	427	16	25	1088	68.00	6-330		
IPM3-450	451	16	25	1148	71.75	6-300		
IPM4-400	397	20	30	1265	63.25	5-500	52	66
IPM4-450	452	20	30	1440	72.00	5-480		
IPM4-500	490	20	30	1562	78.10	5-450		
IPM4-600	593	20	30	1890	94.50	5-420		
IPM4-650	660	16	25	1680	105.00	5-400		
IPM4-700	706	16	25	1800	112.50	5-380		
IPM4-750	754	16	25	1921	120.06	5-350		
IPM4-800	815	16	25	2064	129.00	5-300		
IPM5-700	713	20	30	2268	113.40	4-400	68	84
IPM5-750	763	20	30	2428	121.40	4-380		
IPM5-800	815	20	30	2594	129.70	4-350		
IPM5-850	868	16	25	2196	137.25	4-340		
IPM5-900	895	16	25	2278	142.38	4-320		
IPM5-1000	1009	16	25	2774	173.38	4-300		
IPM6-700	714	20	30	2260	113.00	4-400	78	98
IPM6-800	792	20	30	2520	126.00	4-400		
IPM6-900	904	20	30	2860	143.00	4-380		
IPM6-1000	992	20	30	3140	157.00	4-320		
IPM6-1100	1116	20	30	3540	177.00	3-300		
IPM6-1200	1247	16	25	3168	198.00	3-280		
IPM6-1300	1315	16	25	3344	209.00	3-250		



选型前请详阅各项说明

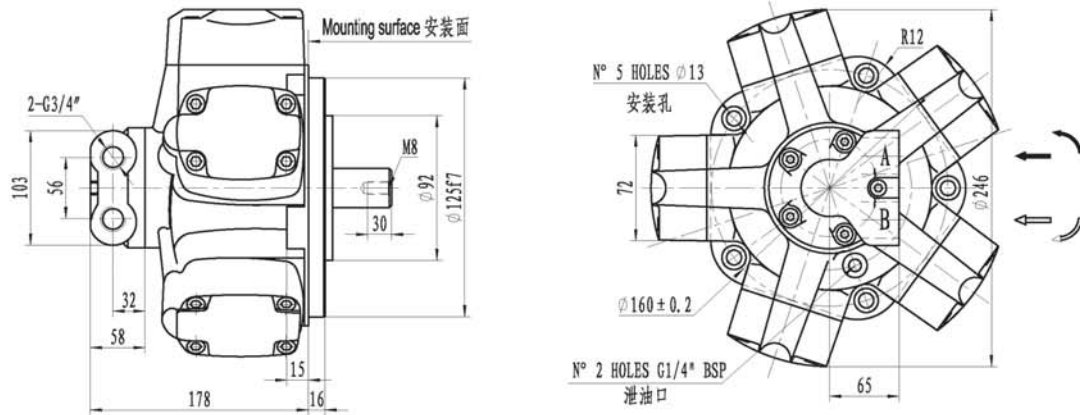
Please read carefully the specifications before selection

IPM

型号 TYPE	理论排量(ml/r) THEORIC DISPLACEMENT	额定压力(MPa) RATED PRESSURE	尖峰压力(MPa) PEAK PRESSURE	额定扭矩(N·m) RATED TORQUE	单位扭矩(N·m/MPa) SPECIFIC TORQUE	转速范围(r/min) SPEED RANGE	最大功率(kW) Max POWER	重量(kg) WEIGHT
IPM6-1400	1406	16	25	3568	223.00	3-230	78	98
IPM6-1500	1481	16	25	3760	235.00	3-210		
IPM6-1600	1597	16	25	4064	254.00	3-200		
IPM7-1400	1413	20	30	4500	225.00	2-300	95	158
IPM7-1600	1648	20	30	5248	262.40	2-250		
IPM7-1800	1815	18	28	5184	288.00	2-220		
IPM7-2000	2035	16	25	5168	323.00	2-200		
IPM7-2200	2268	16	25	5776	361.00	2-180		
IPM7-2400	2480	16	25	6304	394.00	2-160		
IPM8-2450	2449	20	30	7780	389.00	2-200	128	307
IPM8-2550	2559	20	30	8140	407.00	2-200		
IPM8-2800	2845	18	28	8136	452.00	1-175		
IPM8-3000	3023	16	25	7696	481.00	1-150		
IPM8-3300	3333	16	25	8480	530.00	1-150		
IPM8-3500	3526	16	25	8976	561.00	1-130		
IPM8-4000	3998	16	25	10176	636.00	1-130		
IPM9-3550	3560	20	28	11320	566.00	1-160		
IPM9-3700	3720	20	28	11840	592.00	1-160		
IPM9-4000	4136	20	28	13160	658.00	1-150		
IPM9-4400	4396	16	25	11184	699.00	1-150		
IPM9-4800	4846	16	25	12336	771.00	1-125		
IPM9-5000	5127	16	25	13040	815.00	1-120		
IPM9-5500	5514	16	25	14032	877.00	1-120		
IPM9-5800	5814	16	25	14800	925.00	1-110		
IPM9-6300	6322	16	25	16096	1006.00	1-110	160	720
IPM10-6000	6056	20	28	19276	963.80	1-110		
IPM10-6500	6437	20	28	20489	1024.45	1-105		
IPM10-7000	7096	20	28	22587	1129.35	1-100		
IPM10-7500	7508	16	25	19118	1194.88	1-95		
IPM10-8000	8074	16	25	20560	1285.00	1-90		
IPM10-8500	8512	16	25	21696	1356.00	1-90	220	900
IPM11-9000	8953	20	28	28470	1423.50	0.5-100		
IPM11-9500	9559	20	28	30398	1519.90	0.5-95		
IPM11-10000	10028	20	28	31889	1594.45	0.5-90		
IPM11-11000	10507	16	25	26730	1670.63	0.5-85		
IPM11-11500	11331	16	25	28826	1801.63	0.5-85		
IPM11-12000	12186	16	25	31001	1937.56	0.5-80	250	1800
IPM12-14000	14389	20	28	45757	2287.85	0.5-75		
IPM12-15500	15667	20	28	49821	2491.05	0.5-70		
IPM12-16500	16460	20	28	52342	2617.10	0.5-70		
IPM12-17000	17000	20	28	54060	2703.00	0.5-70		
IPM12-18000	18387	20	28	58470	2923.50	0.5-65		
IPM12-18500	18957	16	25	48226	3014.13	0.5-65		
IPM12-19500	19536	16	25	49700	3106.25	0.5-65		
IPM12-20000	19829	16	25	50446	3152.88	0.5-65		
IPM12-21500	21325	16	25	54250	3390.63	0.5-65		
IPM12-23000	22857	16	25	58194	3637.13	0.5-60		

IPM1系列液压马达 IPM1 Series Hydraulic Motors

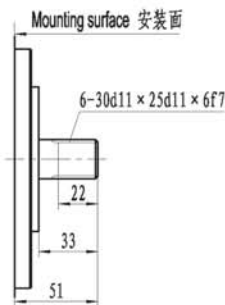
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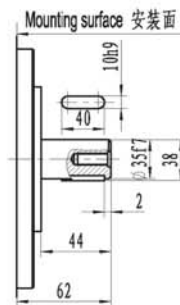
SHAFTS

轴伸型式

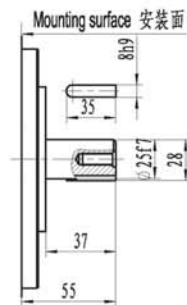
Standard external splined IPM1-***
标准外花键



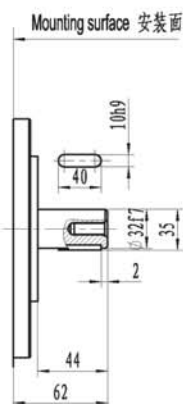
Standard cylindrical IPM1-***B
标准平键



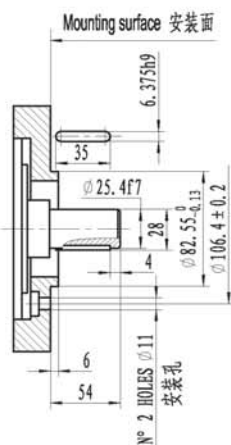
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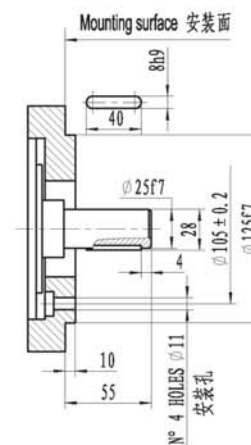
IPM1-***B31



IPM1-***B3

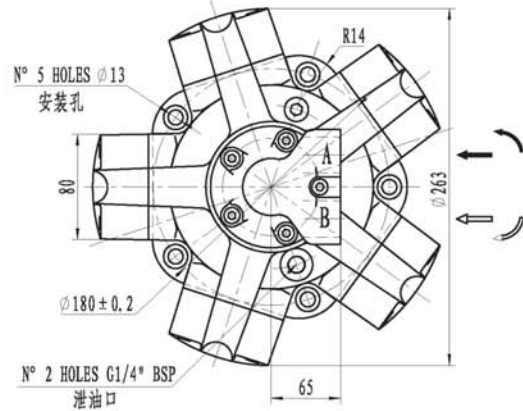
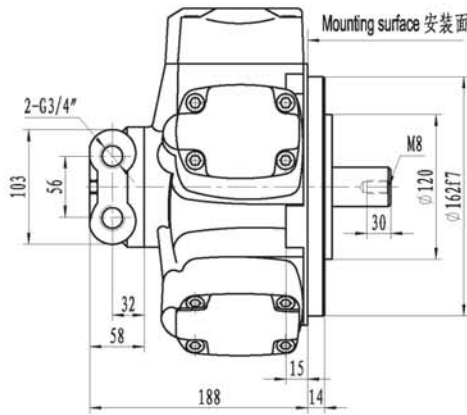


IPM1-***B11



IPM2系列液压马达 IPM2 Series Hydraulic Motors

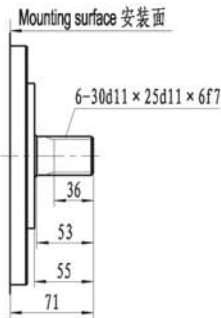
DIMENSIONS



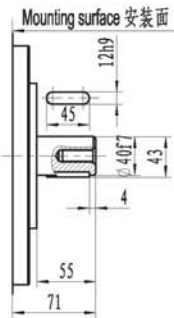
SHAFTS

输出轴样式

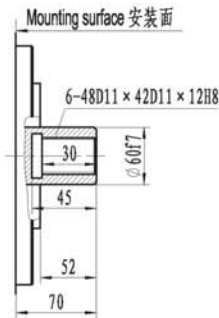
Standard external splined IPM2-***
标准外花键



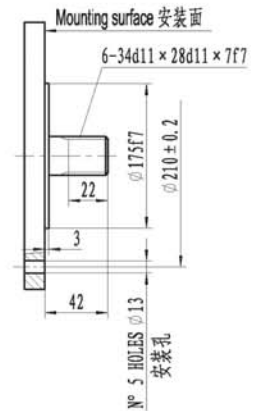
Standard cylindrical IPM2-***B
标准平键



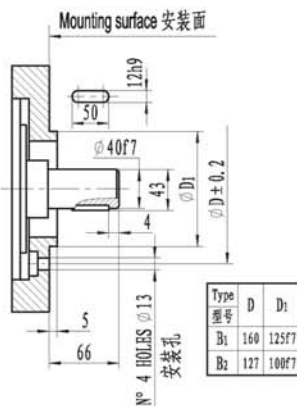
Standard internal splined IPM2-***I
标准内花键



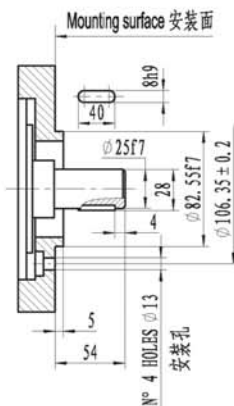
IPM2-***SL₁



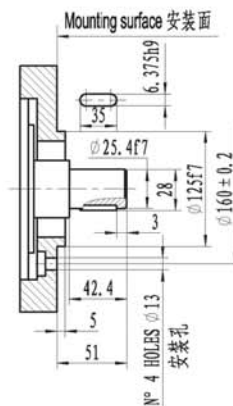
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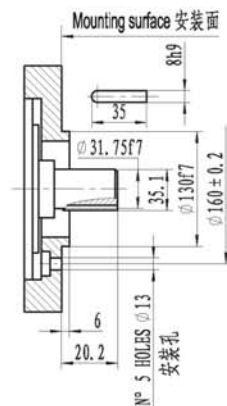
IPM2-***B₂₄



IPM2-***B₃

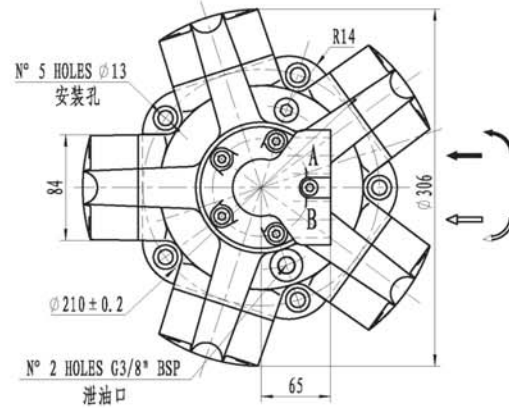
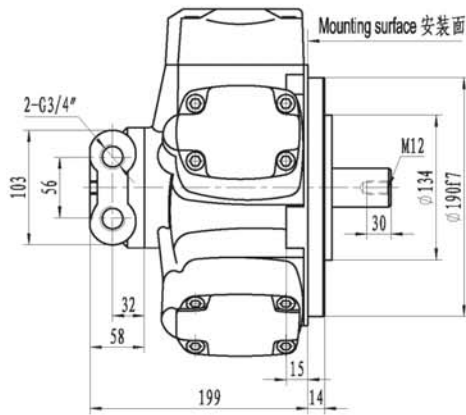


IPM2-***B₁₄



IPM3系列液压马达 IPM3 Series Hydraulic Motors

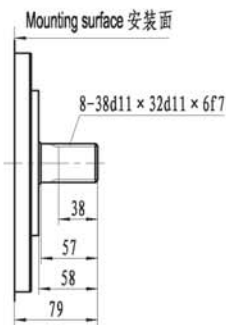
DIMENSIONS



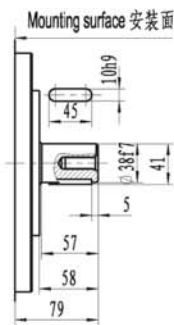
SHAFTS

输出轴样式

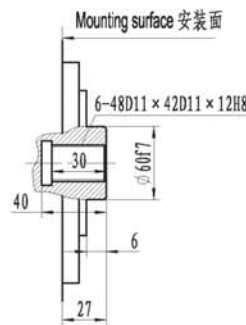
Standard external splined IPM3-**
标准外花键



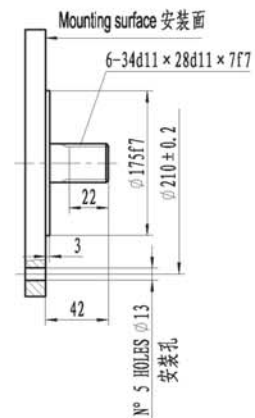
Standard cylindrical IPM3-**B
标准平键



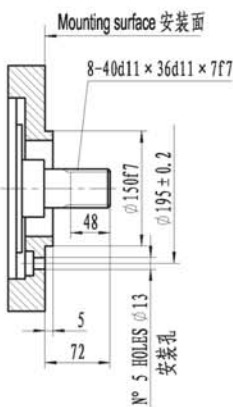
Standard internal splined IPM3-**I
标准内花键



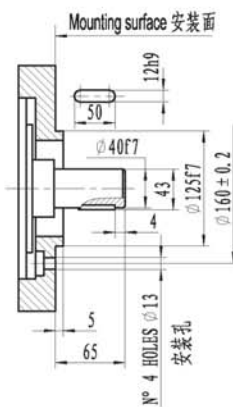
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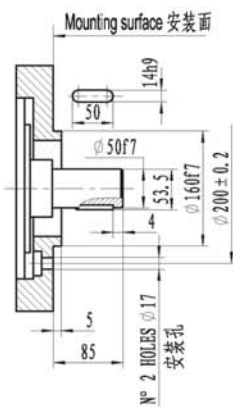
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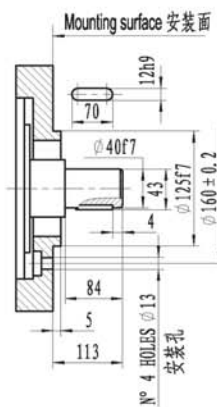
IPM3-**B₁



IPM3-**B₂

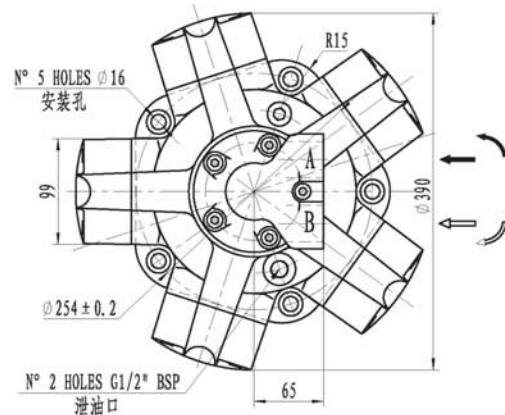
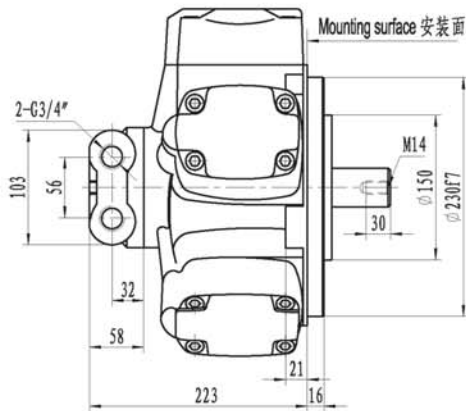


IPM3-**B₅



IPM4系列液压马达 IPM4 Series Hydraulic Motors

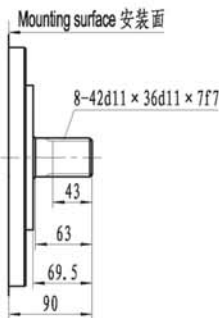
DIMENSIONS



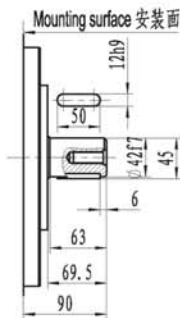
SHAFTS

输出轴样式

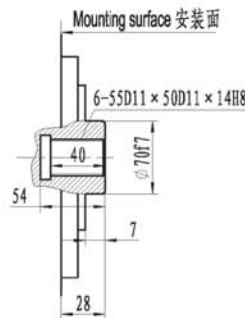
Standard external splined IPM4-***
标准外花键



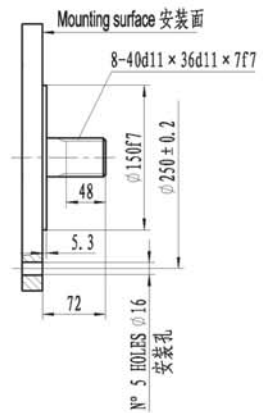
Standard cylindrical IPM4-***B
标准平键



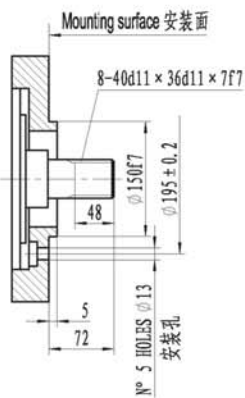
Standard internal splined IPM4-***I
标准内花键



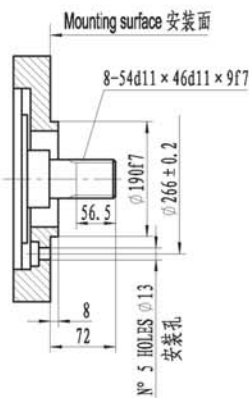
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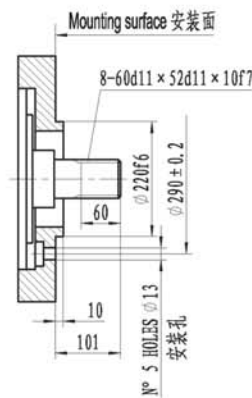
IPM4-***SL₂



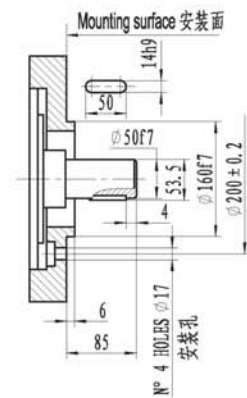
IPM4-***N



IPM4-***N₁

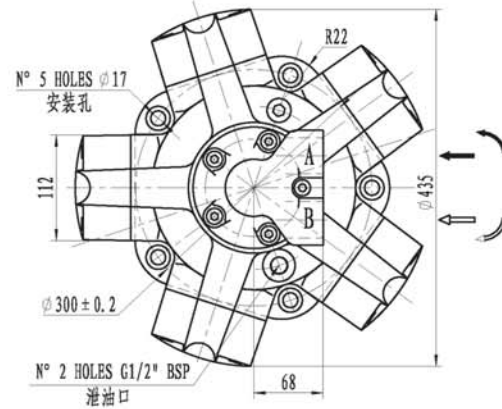
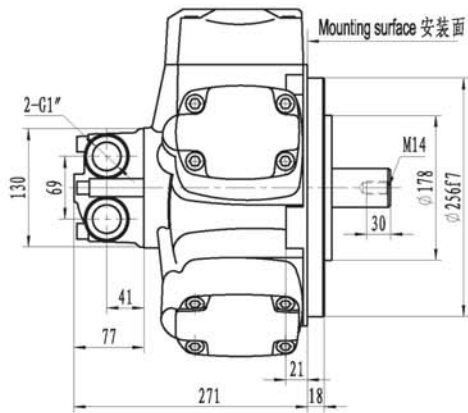


IPM4-***B₂



IPM5系列液压马达 IPM5 Series Hydraulic Motors

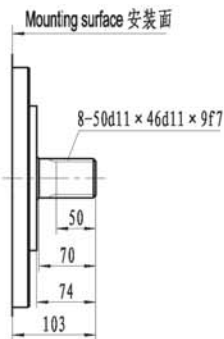
DIMENSIONS



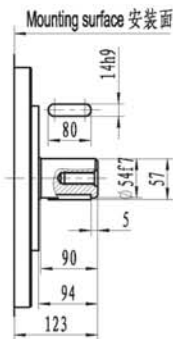
SHAFTS

输出轴样式

Standard external splined IPM5-**
标准外花键



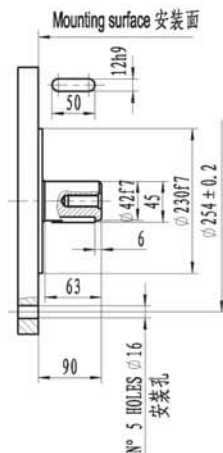
Standard cylindrical IPM5-**-B
标准平键



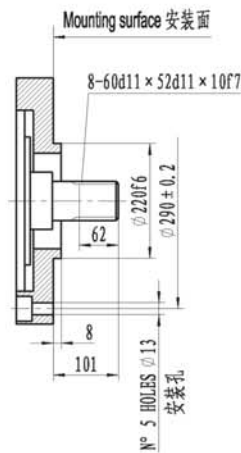
IPM5-**-4



IPM5-**-4B

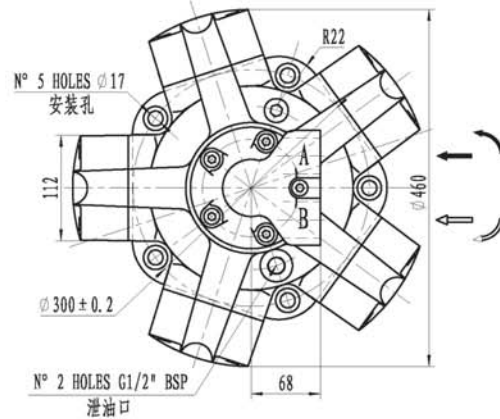
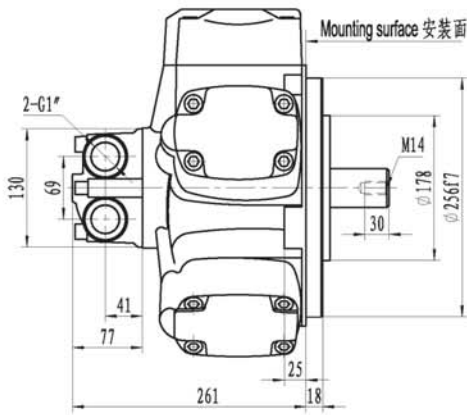


IPM5-**-C



IPM6系列液压马达 IPM6 Series Hydraulic Motors

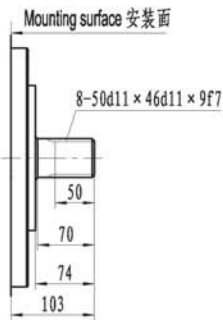
DIMENSIONS



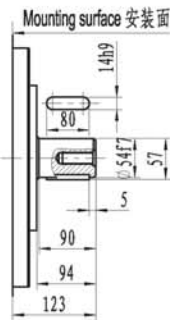
SHAFTS

输出轴样式

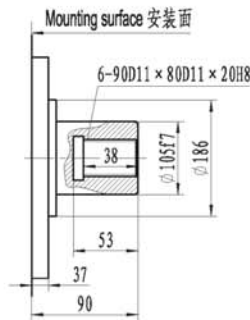
Standard external splined IPM6-**
标准外花键



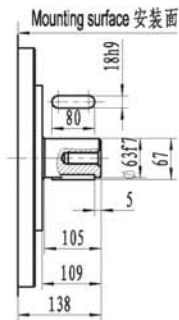
Standard cylindrical IPM6-**B
标准平键



Standard internal splined IPM6-**I
标准内花键



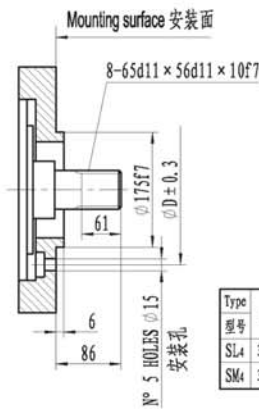
IPM6-**D



IPM6-**SL₃

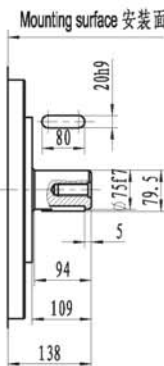


IPM6-**SL₄, SM₄

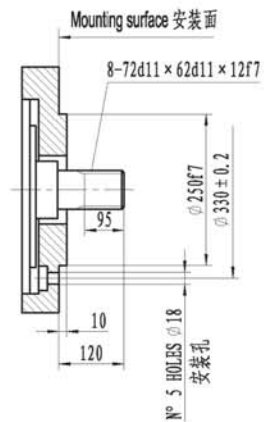


Type	D
SL ₄	310
SM ₄	330

IPM6-**B₂₉

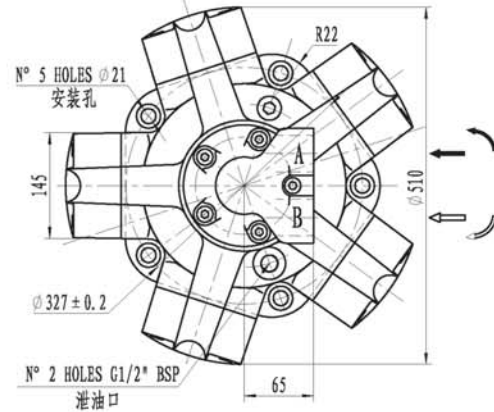
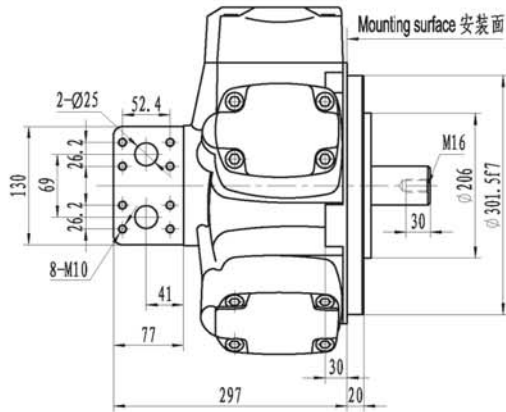


IPM6-**K



IPM7系列液压马达 IPM7 Series Hydraulic Motors

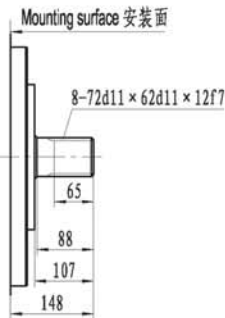
DIMENSIONS



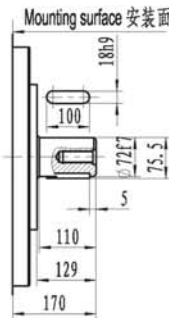
SHAFTS

输出轴样式

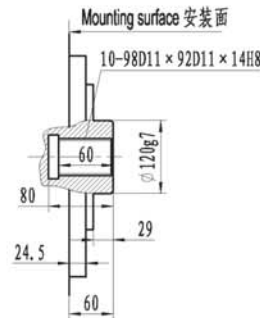
Standard external splined IPM7-**
标准外花键



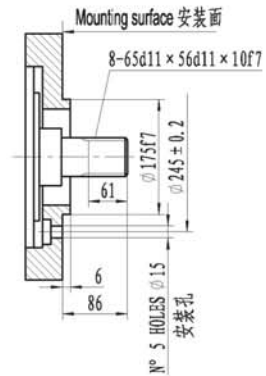
Standard cylindrical IPM7-**B
标准平键



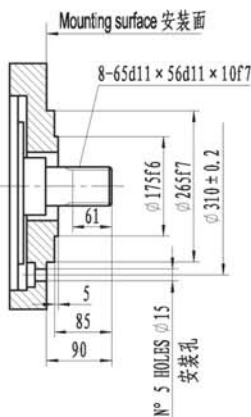
Standard internal splined IPM7-**I
标准内花键



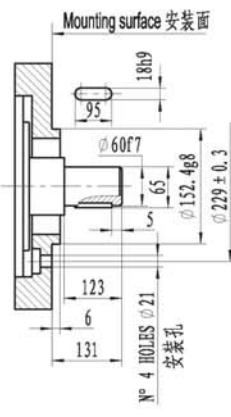
IPM7-**SM4



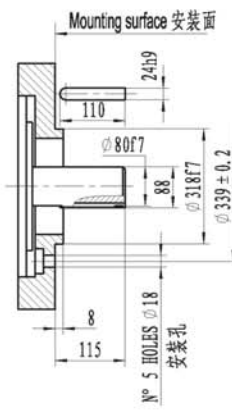
IPM7-**SL5



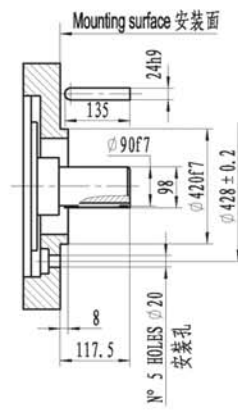
IPM7-**B6



IPM7-**B17

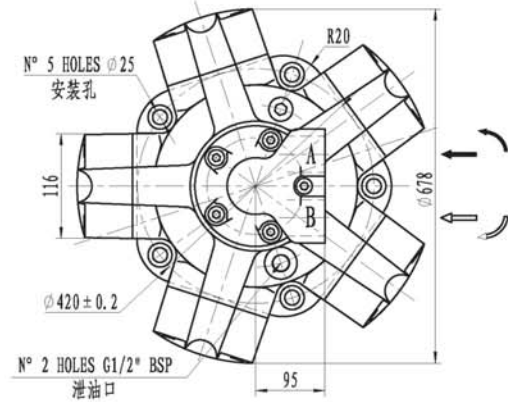
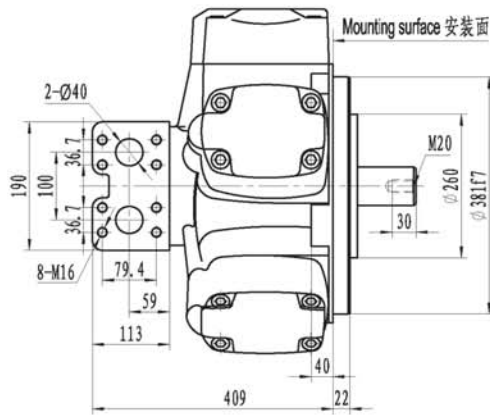


IPM7-**B18



IPM8系列液压马达 IPM8 Series Hydraulic Motors

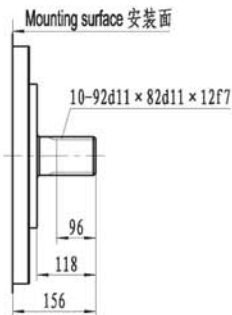
DIMENSIONS



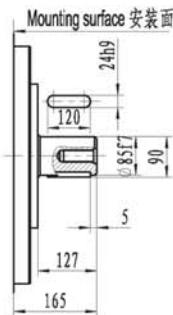
SHAFTS

输出轴样式

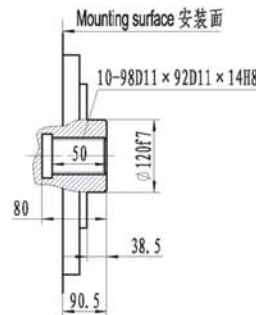
Standard external splined IPM8-***
标准外花键



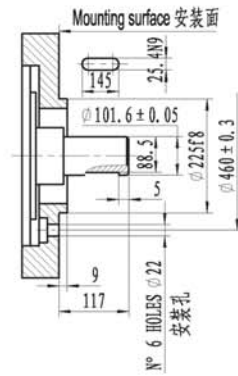
Standard cylindrical IPM8-***B
标准平键



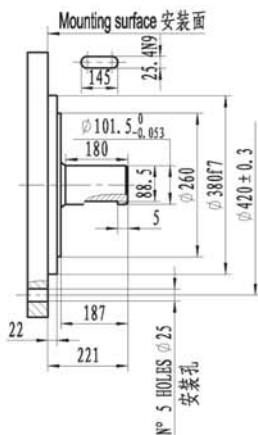
Standard internal splined IPM8-***I
标准内花键



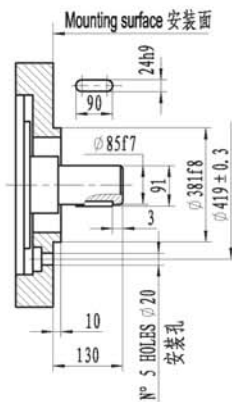
IPM8-***B8



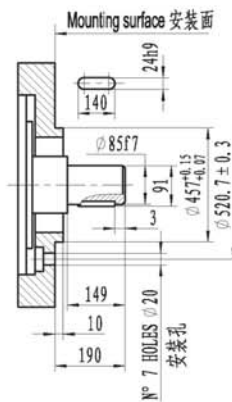
IPM8-***B10



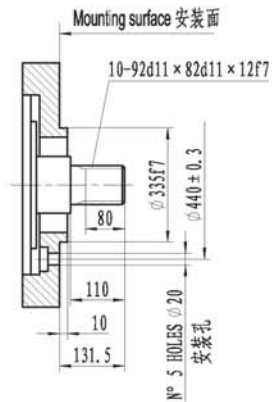
IPM8-***B21



IPM8-***B22



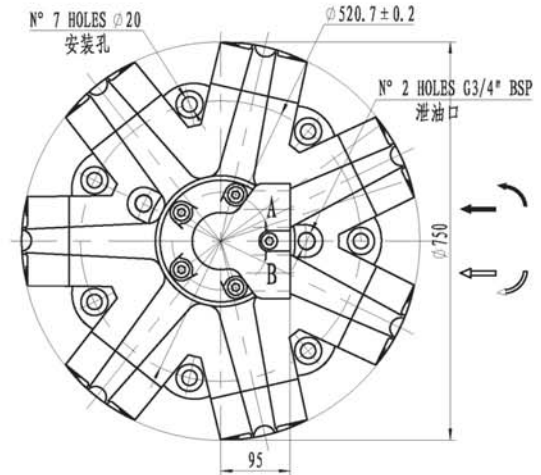
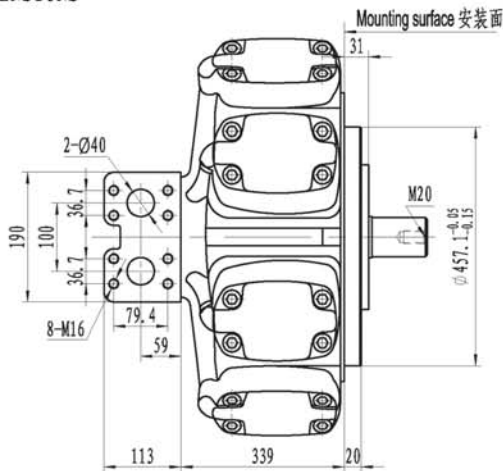
IPM8-***N1



IPM9系列液压马达

IPM9 Series Hydraulic Motors

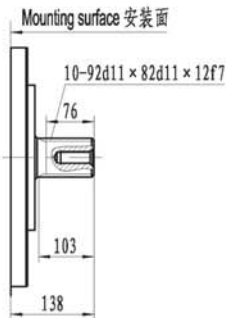
DIMENSIONS



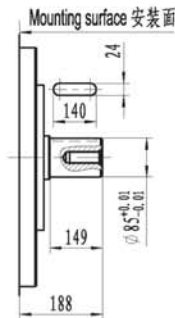
SHAFTS

输出轴样式

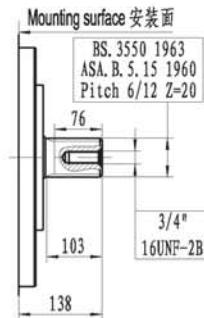
Standard external splined IPM9-**
标准外花键



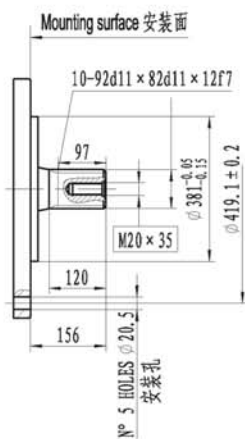
Standard cylindrical IPM9-**B
标准平键



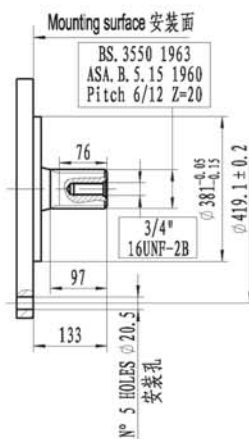
IPM9-**A



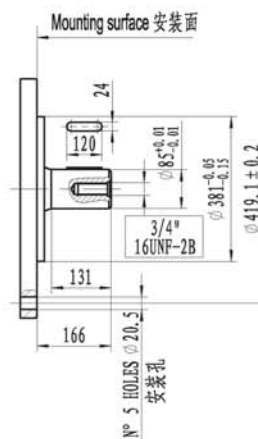
IPM9-**-8



IPM9-**A1

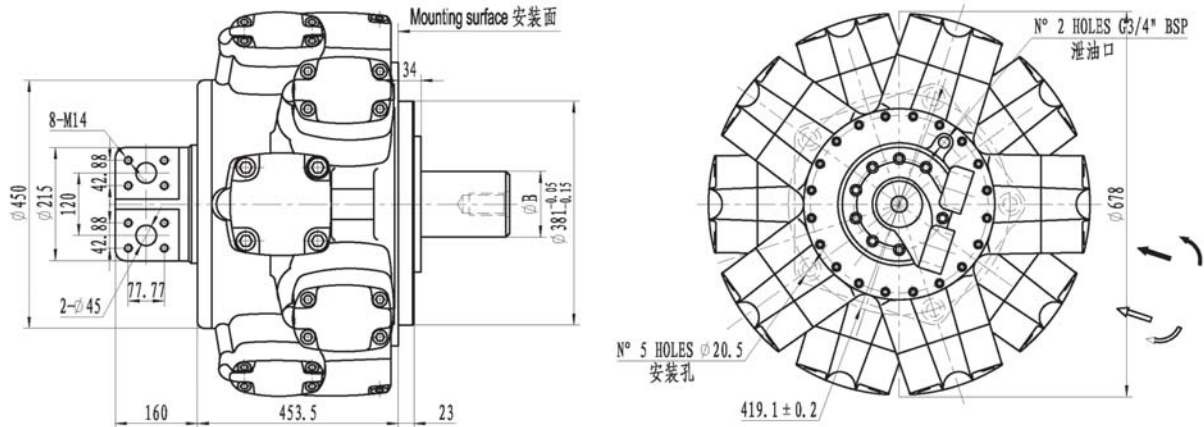


IPM9-**B1



IPM10系列液压马达 IPM10 Series Hydraulic Motors

DIMENSIONS



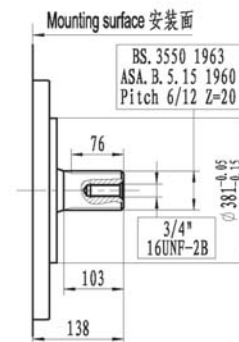
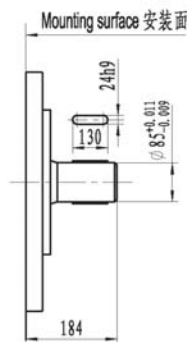
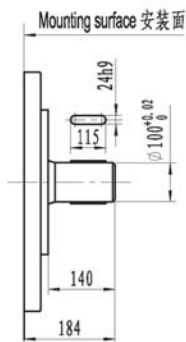
SHAFTS

输出轴样式

Standard cylindrical IPM10-**B
标准平键

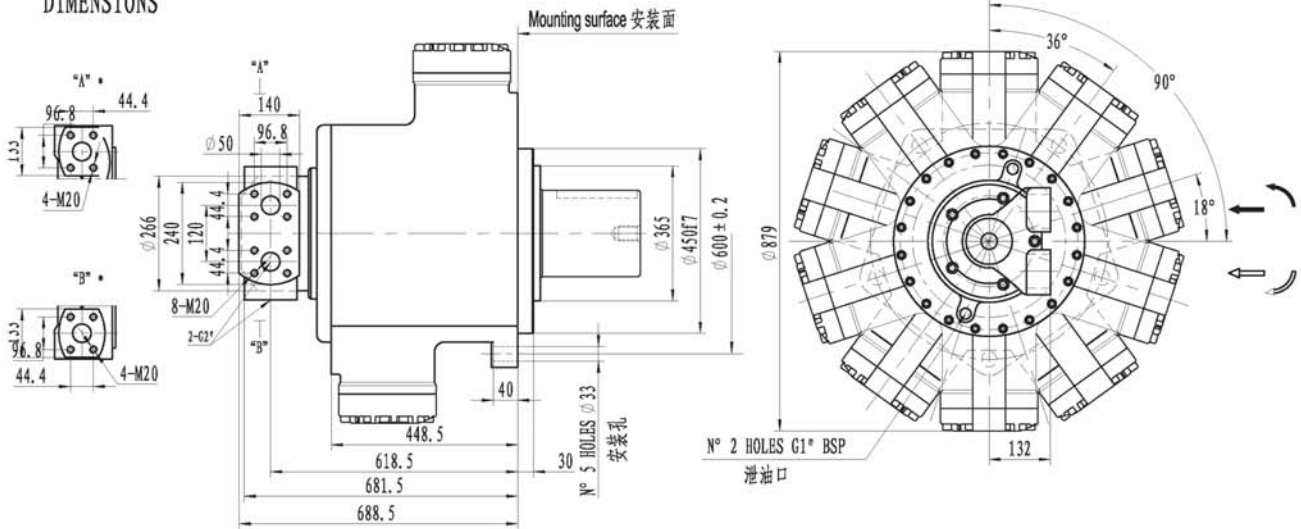
IPM10-**B₁

Standard external splined IPM10-**A
标准渐开线外花键



IPM11系列液压马达 IPM11 Series Hydraulic Motors

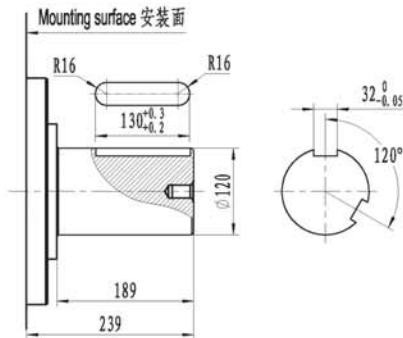
DIMENSIONS



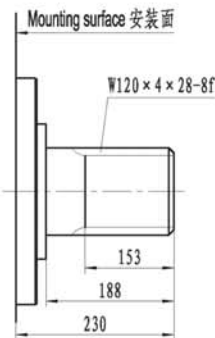
SHAFTS

输出轴样式

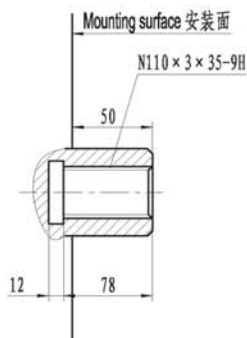
Standard cylindrical IPM11-**-B
标准平键



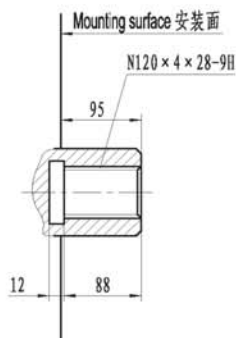
Standard external splined IPM11-**-**
标准外花键



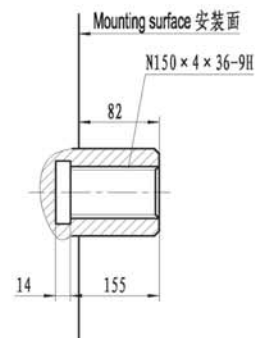
Standard internal splined IPM11-**-I
标准内花键



IPM11-**-I₂

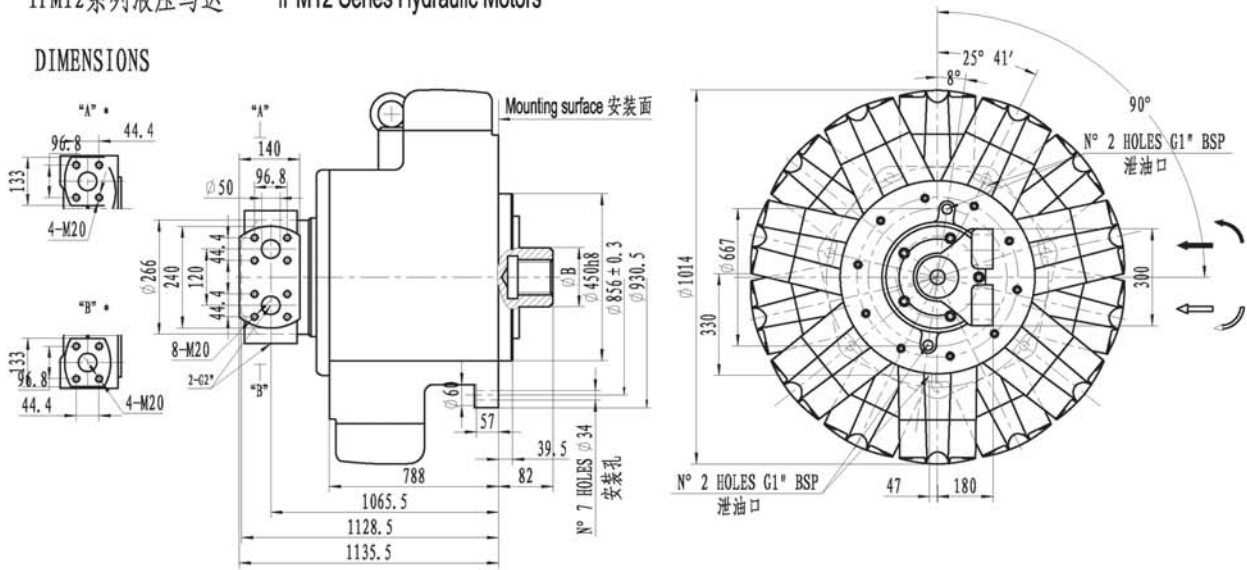


IPM11-**-I₃



IPM12系列液压马达 IPM12 Series Hydraulic Motors

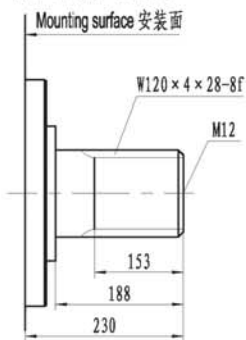
DIMENSIONS



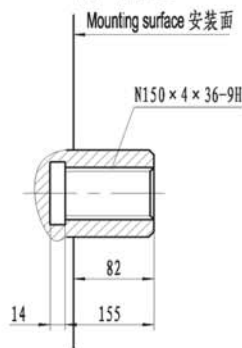
SHAFTS

输出轴样式

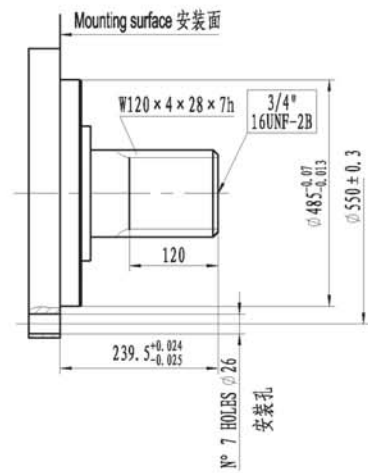
Standard external splined IPM12-***A
标准外渐开线花键



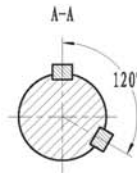
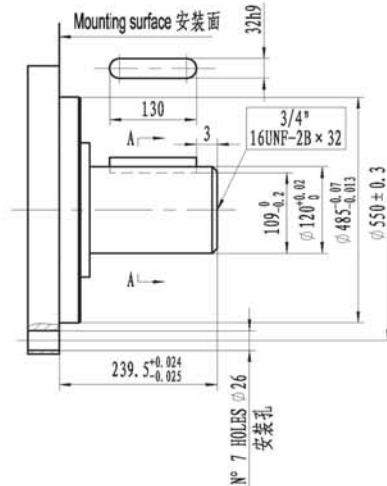
Standard internal splined IPM12-***I
标准内花键



IPM12-***A



IPM12-***B



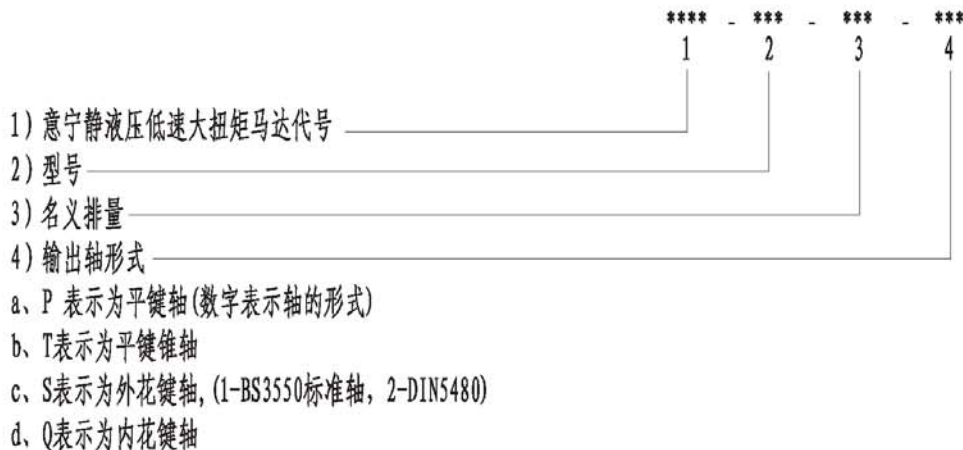
IMB 系列径向静压平衡液压马达---压力更高、转速更快、功率更大

其主要特点:

- 连杆曲面与偏心轮相对运动设计成静压平衡, 解决了曲轴连杆式大功率液压马达曲拐被滚柱压垮问题, 因而该马达具有更高压力、更快转速、更大功率的性能输出。
- 连杆球头与柱塞内球窝采用特殊工艺及静压平衡结构, 降低球铰副摩擦, 从而减少柱塞与缸壁运动中侧向力。使缸壁、柱塞磨损更小。
- 柱塞密封环采用作功时涨, 回程时缩结构, 减少了一半接触摩擦使马达发热更少, 密封环更加耐用。
- 采用静压平衡轴配油器, 使配油轴始终在通油器非接触状态下转动, 寿命长, 同时大流道孔配油阻力小, 噪声更低。
- 性能和参数已达到国外同类产品。

由于IMB系列液压马达具有以上特点, 因而可广泛应用于船舶甲板机械、矿山建筑工程机械、塑料机械、重型冶金机械的高负荷工况, 外形尺寸和性能参数与英国Staffa公司HMB系列马达一致, 可替代进口。

产品标识说明



型号举例

IMB 325 5400 P3

马达代号	IMB
型号	325
排量	5400ml/r
平键轴	P3

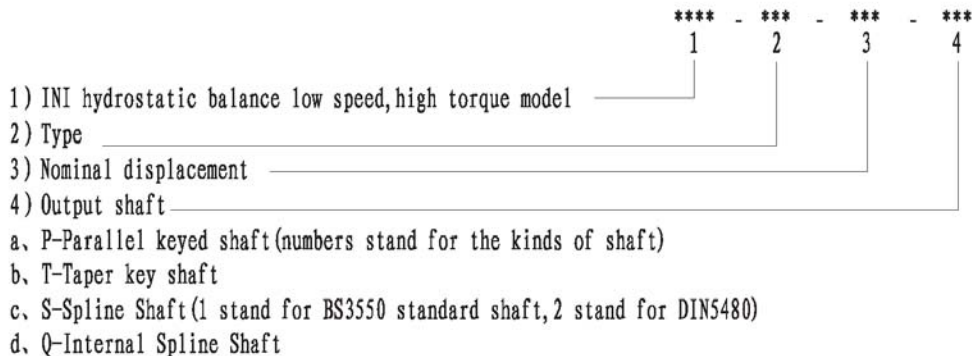
IMB hydrostatic balance hydraulic motor----higher pressure, higher speed, higher power

Main characteristics:

- The hydrostatic balance is built between the con-rod and eccentric sets,solve the problem of higher-power hydraulic motor of shaft con-rod be overwhelmed by the roller,so this motor have higher pressure, higher speed, higher power.
- Using special treatment process and hydrostatic balance between the con-rod and piston,reduce the friction loss in the load transmission,reduce the force between piston and cylinder wall,then reduce the friction loss between the piston and cylinder wall.
- The piston seal ring using special structures to reduce the friction and improve the volumetric efficiency.
- Using the hydrostatic balance shaft distributor,the distributor can rotary without connection ,improve the volumetric efficiency and reduce the noise and the resistance.
- Characteristics and data is similar with Staffa.

Due to above these advantages,it has been widely applied in all kinds of hydraulic transmission system such an ship and deck machinery construction machinery and equipment, plastic injection machine, heavy metallurgical machinery.shape and characteristics data is similar to Staffa and HMB,so IMB can instand of imports.

Ordering Code



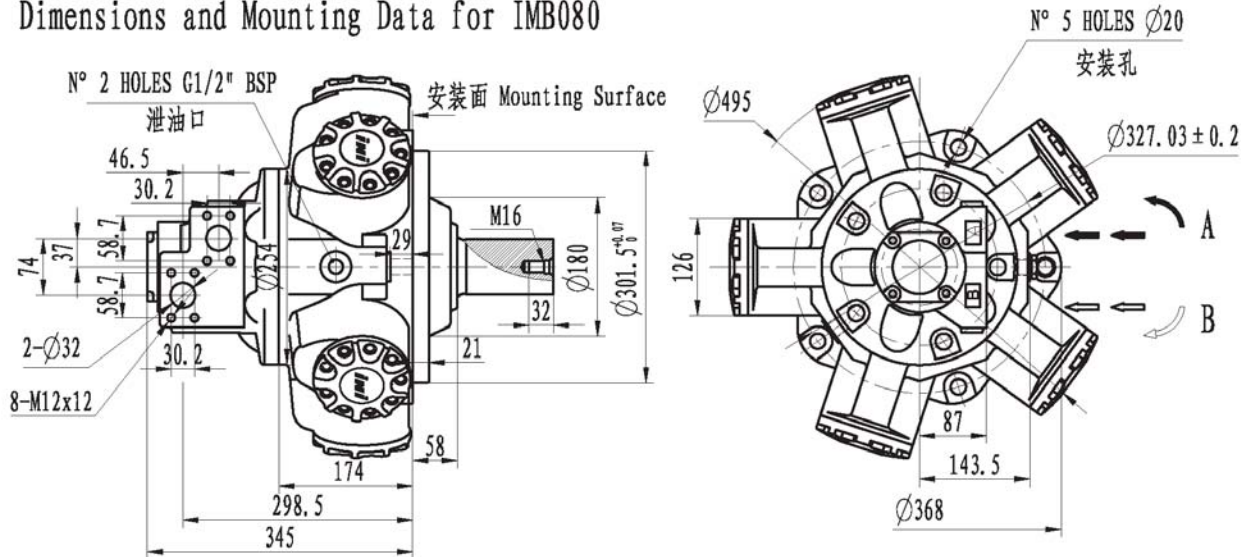
Example

IMB 325 5400 P3

Model	IMB
Type	325
Displacement	5400ml/r
Parallel keyed shaft	P3

型号 TYPE	理论排量 (ml/r) THEORIC DISPLACEMENT	额定压力 (MPa) RATED PRESSURE	尖峰压力 (MPa) PEAK PRESSURE	额定扭矩 (N. m) RATED TORQUE	单位扭矩 (N. m/MPa) SPECIFIC TORQUE	最高转速 (r/min) MAX. SPEED	额定功率 (Kw) RATED PW	重量 (kg) WEIGHT
IMB080-1000	988	23	29	3324	145	300	90	144
IMB080-1100	1088	23	29	3661	159	300	90	
IMB080-1250	1237	23	29	4162	181	280	90	
IMB100-1400	1385	23	29	4660	203	260	100	144
IMB100-1600	1630	23	29	5484	238	240	100	
IMB125-1400	1459	23	29	4909	213	300	95	235
IMB125-1600	1621	23	29	5454	237	270	95	
IMB125-1800	1864	23	29	6271	273	235	95	
IMB125-2000	2027	23	29	6820	297	220	95	
IMB200-2400	2432	23	29	8182	356	220	120	285
IMB200-2800	2757	23	29	9276	403	195	120	
IMB200-3100	3080	23	29	10362	451	175	120	
IMB270-3300	3291	23	29	11072	481	160	130	420
IMB270-3600	3575	23	29	12028	523	145	130	
IMB270-4000	3973	23	29	13367	581	130	130	
IMB270-4300	4313	23	29	14511	631	120	130	
IMB325-4500	4538	23	29	15268	664	115	130	420
IMB325-5000	4992	23	29	16795	730	105	130	
IMB325-5400	5310	23	29	17865	777	100	130	
IMB400-5500	5510	23	29	18135	788	120	175	495
IMB400-6000	5996	23	29	19735	858	120	175	
IMB400-6500	6483	23	29	21337	928	120	175	
IMB400-6800	6807	23	29	22404	974	120	175	

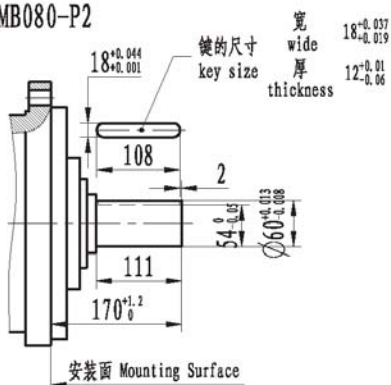
IMB080系列安装联接尺寸图 Dimensions and Mounting Data for IMB080



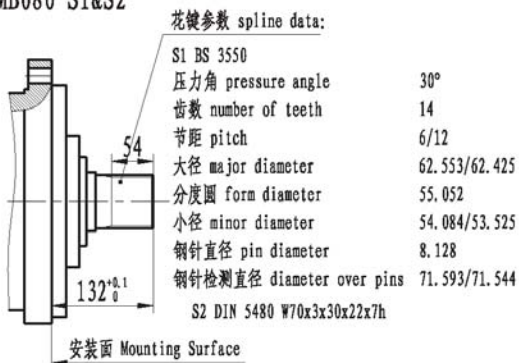
输出轴样式

SHAFTS

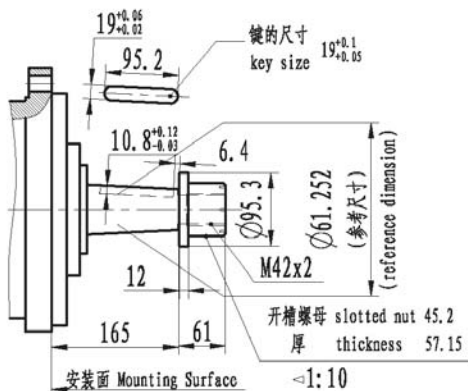
IMB080-P2



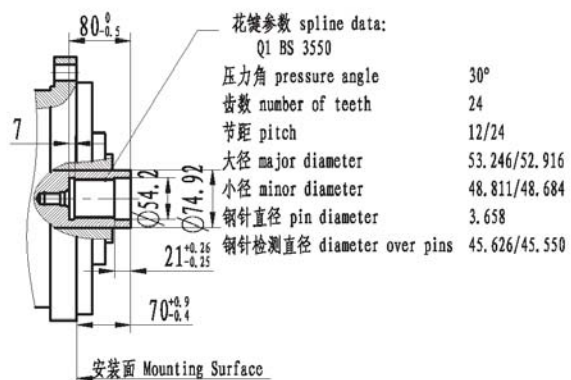
IMB080-S1&S2



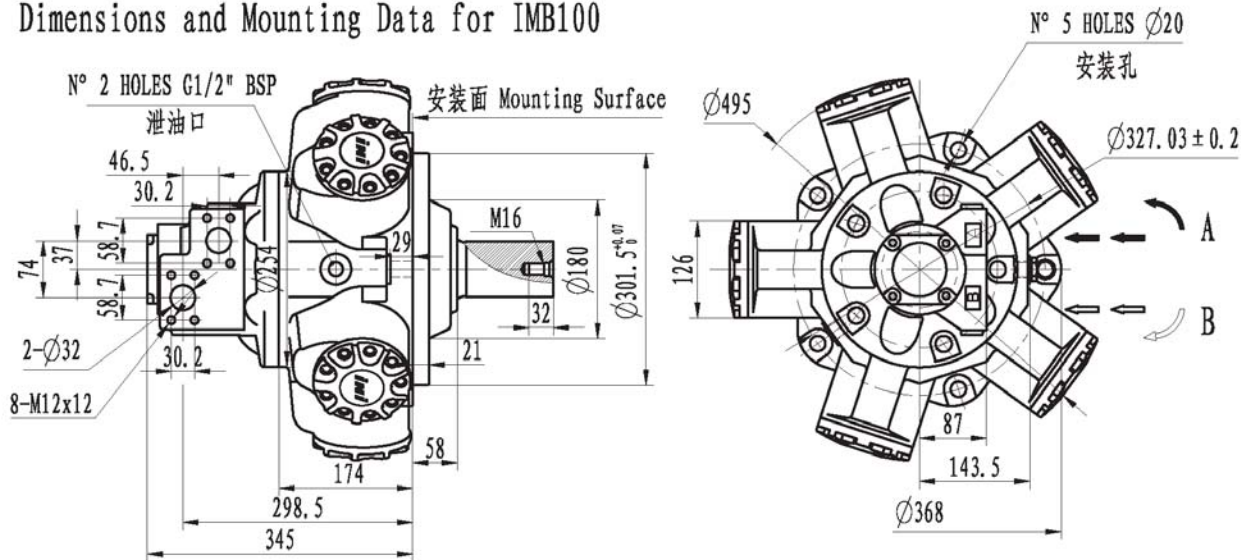
IMB080-T1



IMB080-Q1

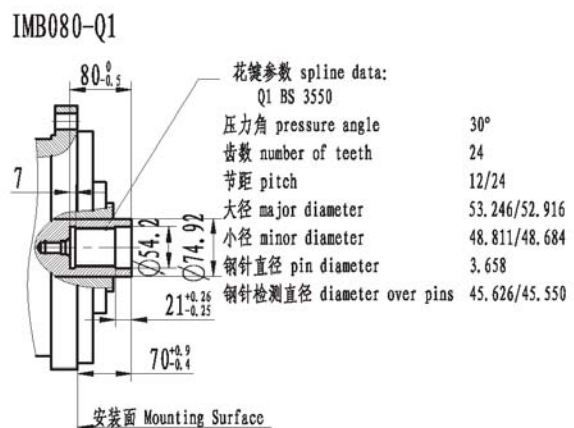
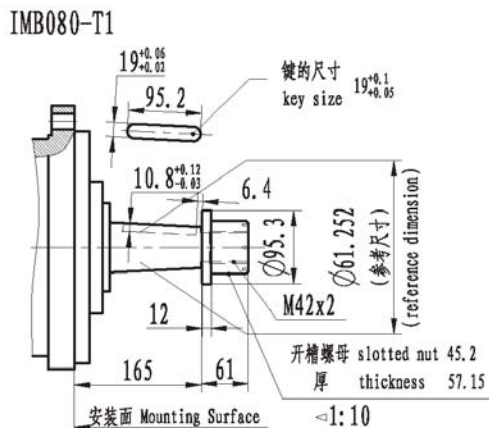
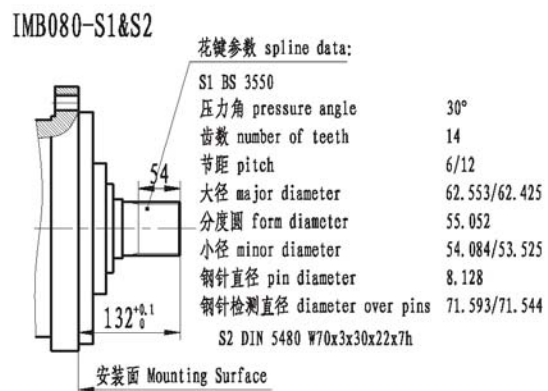
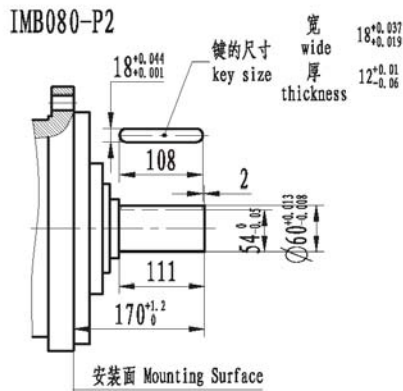


IMB100系列安装联接尺寸图 Dimensions and Mounting Data for IMB100

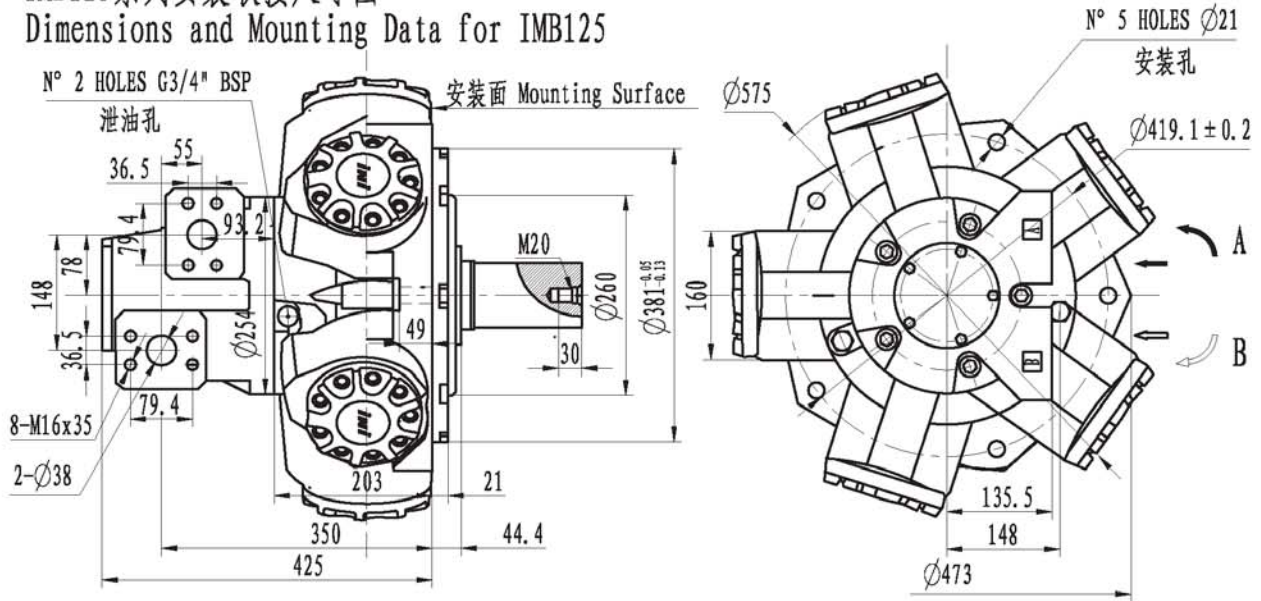


输出轴样式

SHAFTS

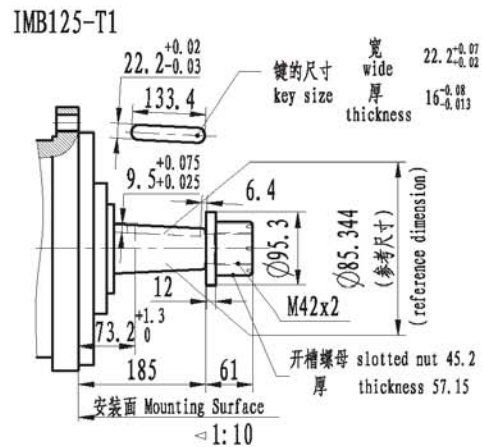
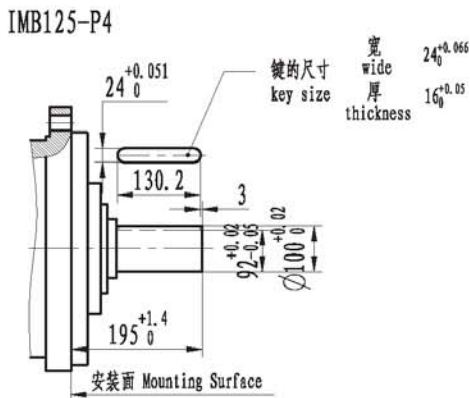
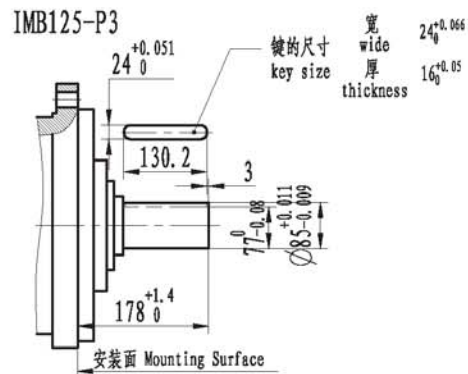
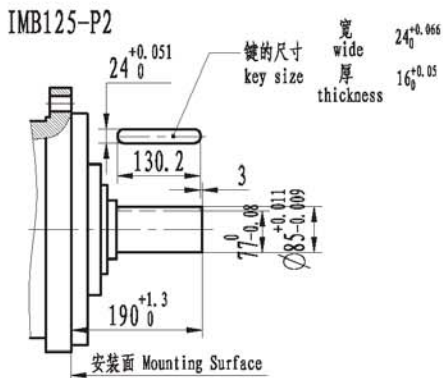


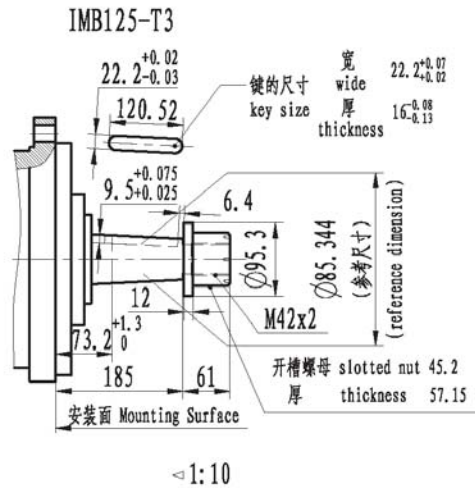
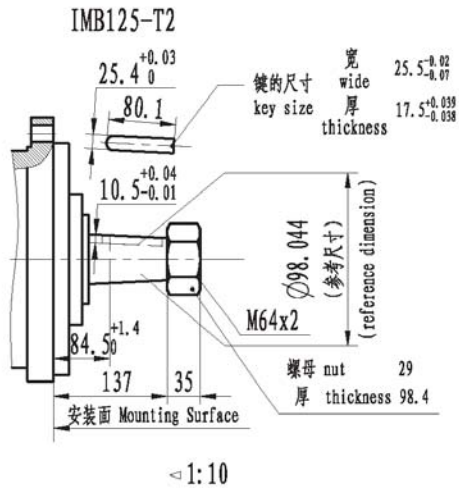
IMB125系列安装联接尺寸图 Dimensions and Mounting Data for IMB125



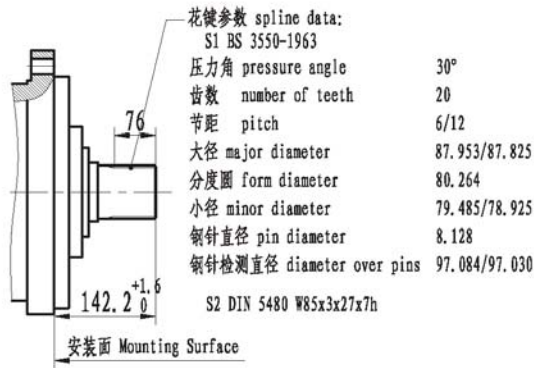
输出轴样式

SHAFTS

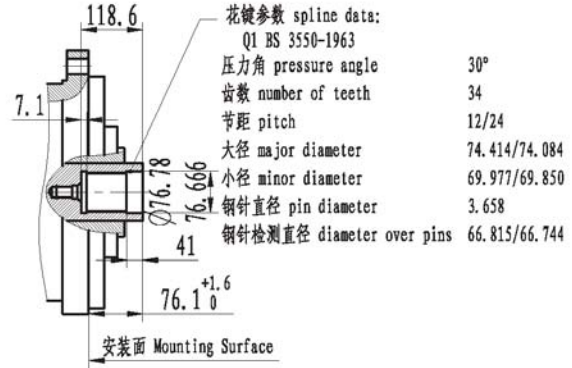




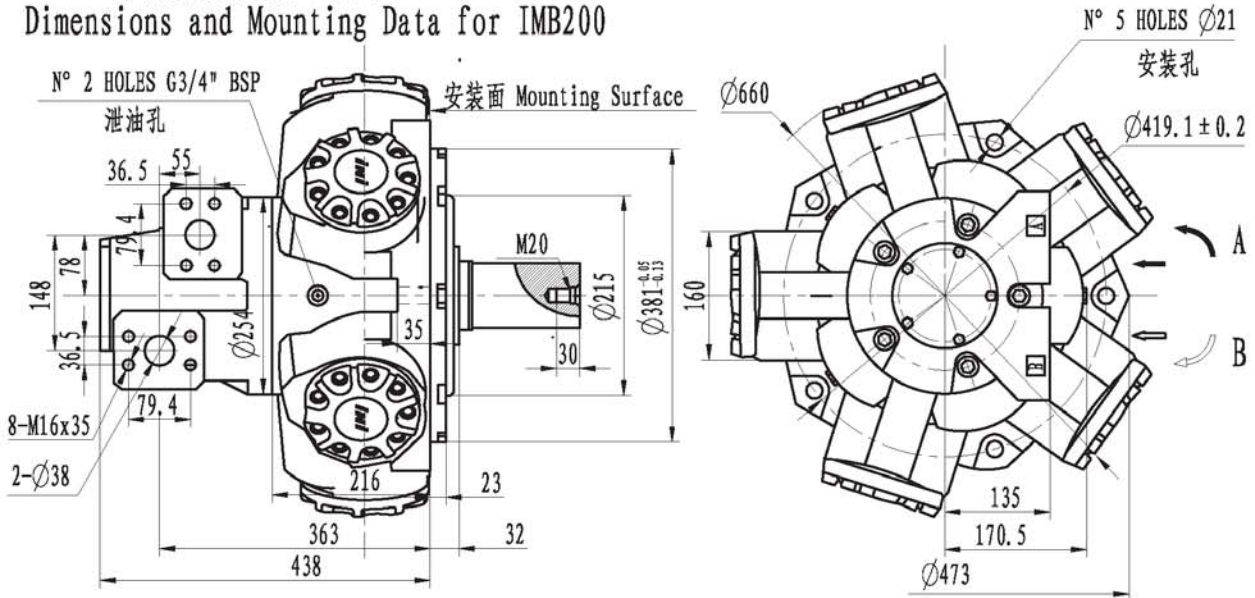
IMB125-S1&S2



IMB125-Q1

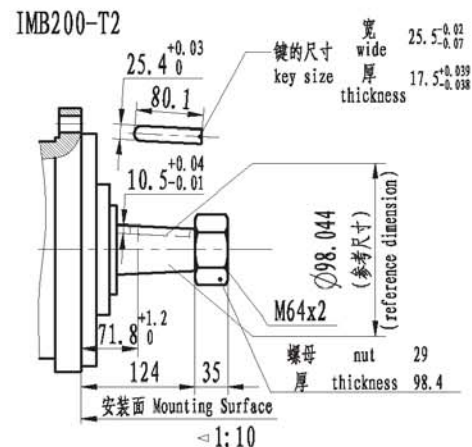
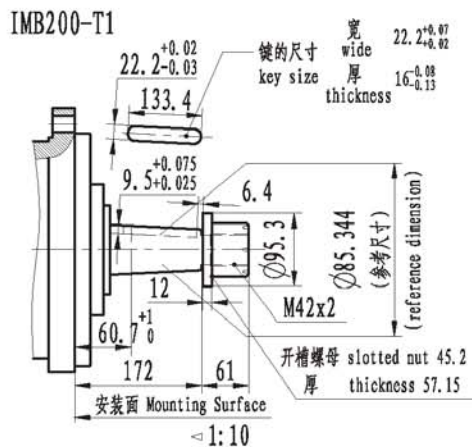
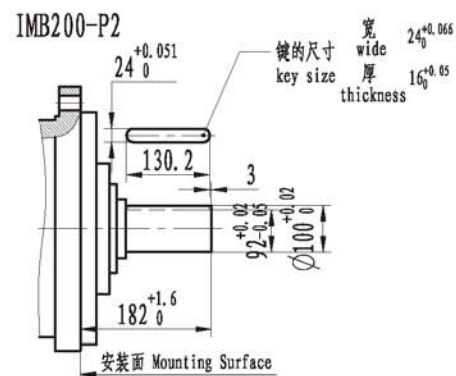
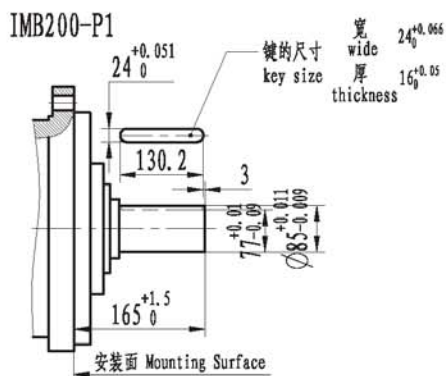


IMB200系列安装联接尺寸图 Dimensions and Mounting Data for IMB200

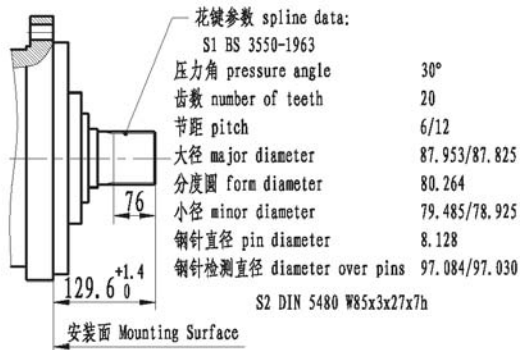


输出轴样式

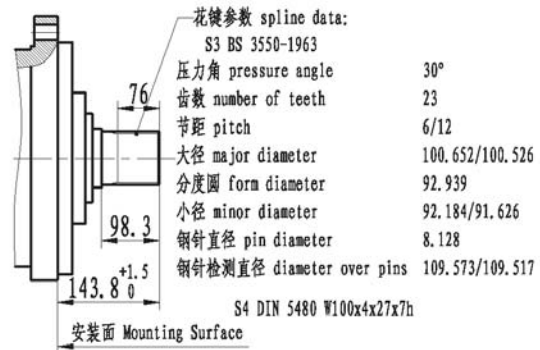
SHAFTS



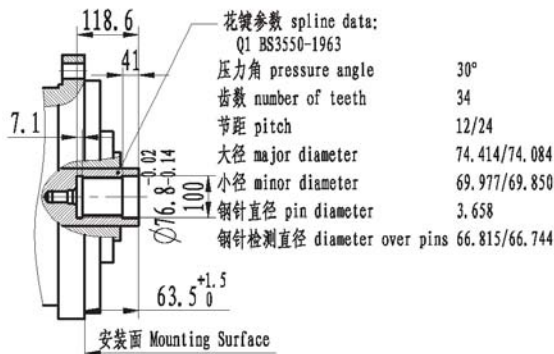
IMB200-S1&S2



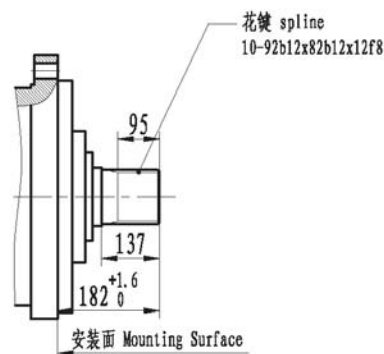
IMB200-S3&S4



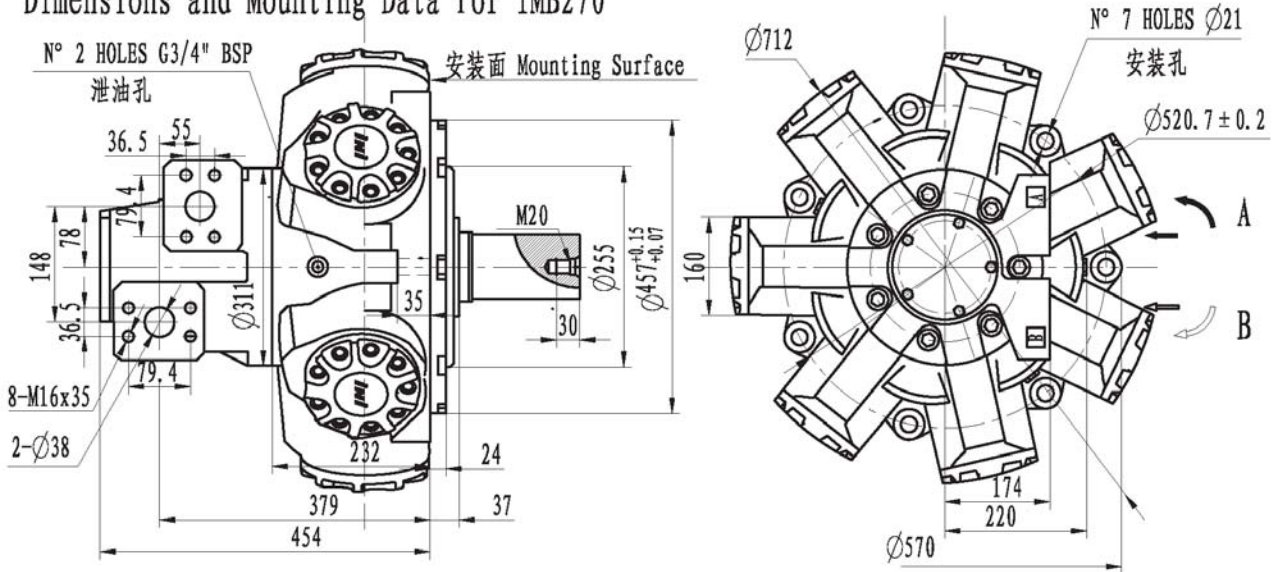
IMB200-Q1



IMB200-S5



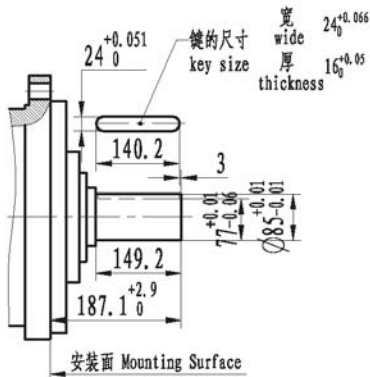
IMB270系列安装联接尺寸图 Dimensions and Mounting Data for IMB270



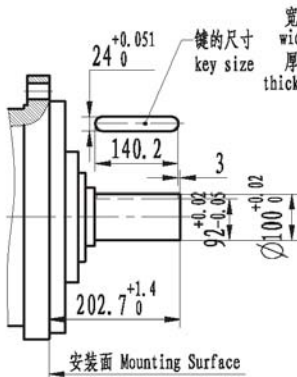
输出轴样式

SHAFTS

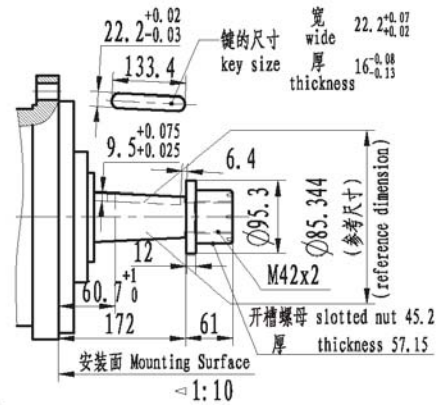
IMB270-P3



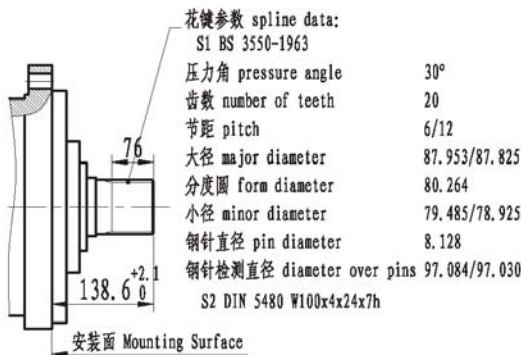
IMB270-P2



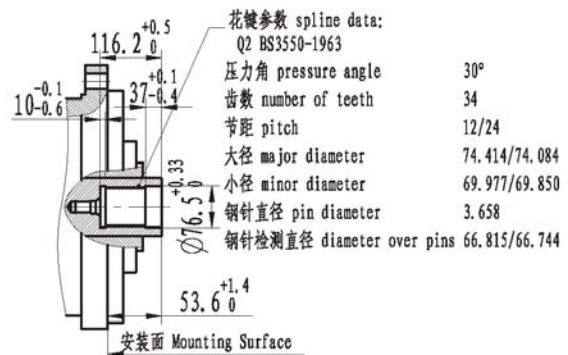
IMB270-P1



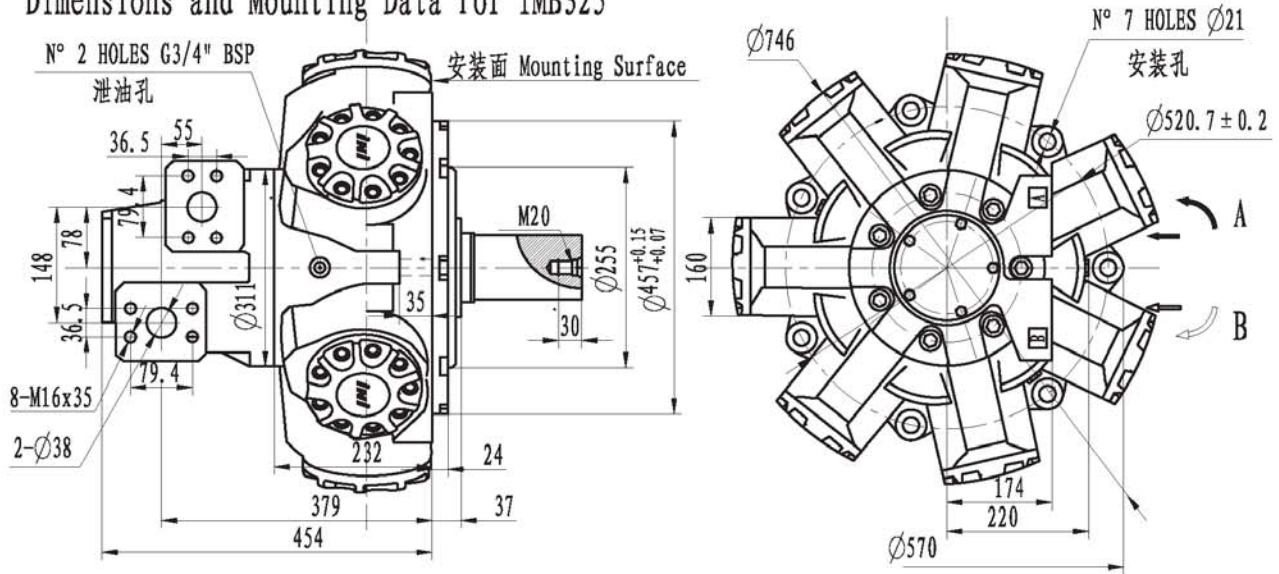
IMB270-S1&S2



IMB270-Q1



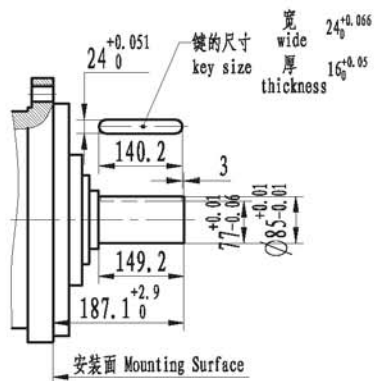
IMB325系列安装联接尺寸图 Dimensions and Mounting Data for IMB325



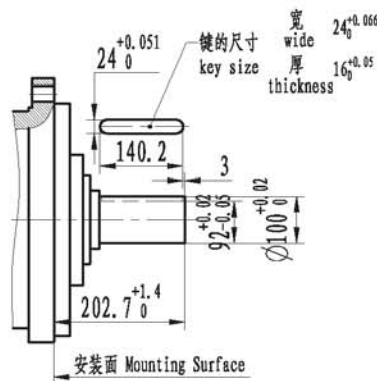
输出轴样式

SHAFTS

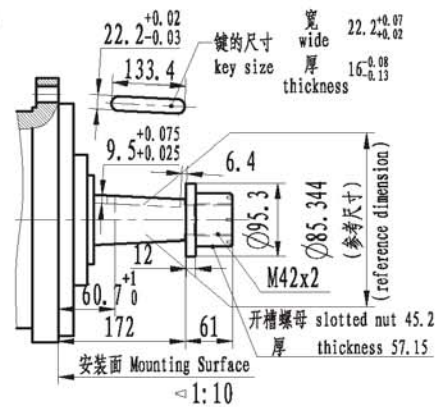
IMB325-P3



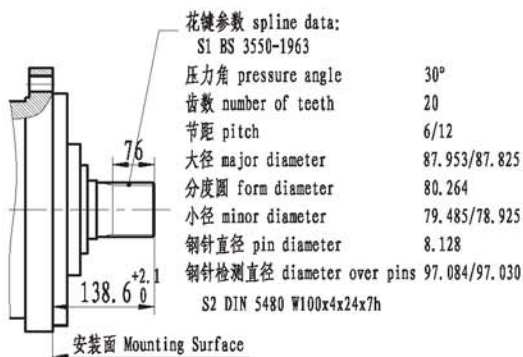
IMB325-P2



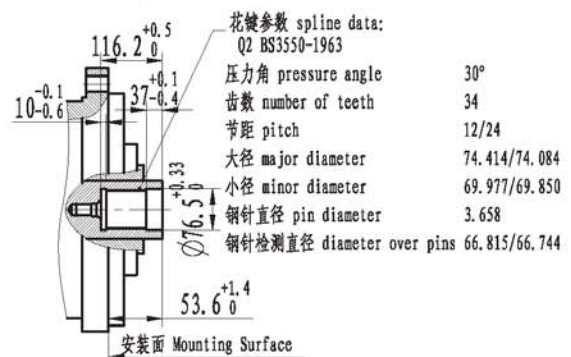
IMB325-P1



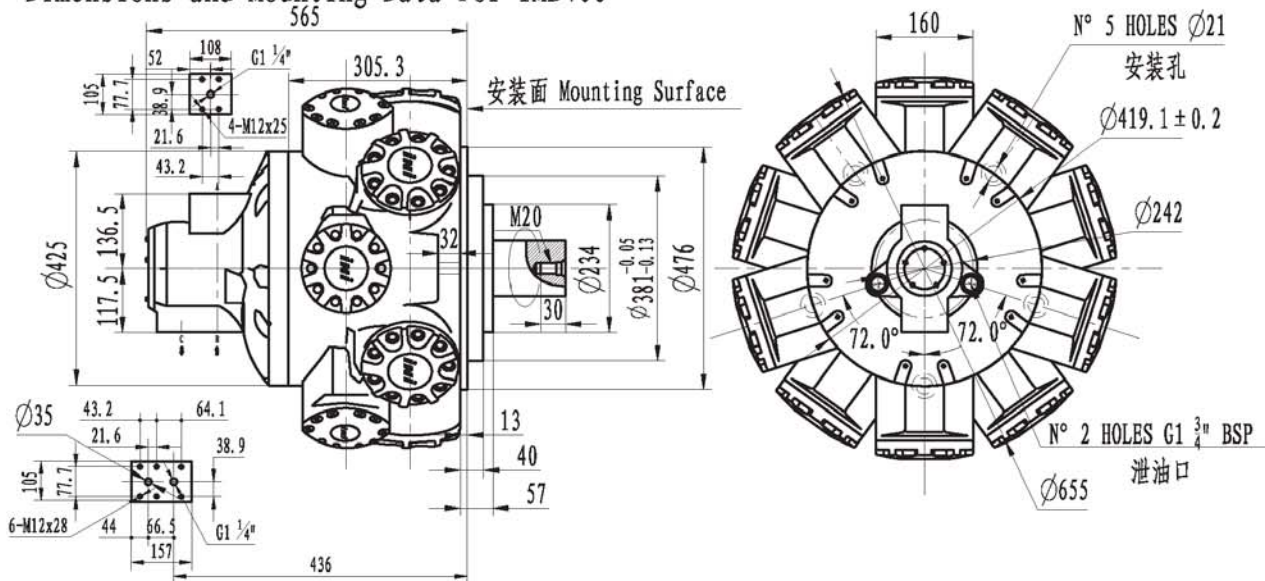
IMB325-S1&S2



IMB325-Q1



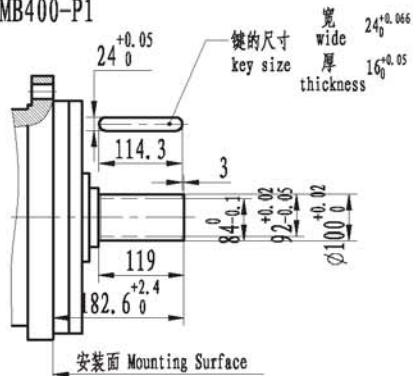
IMB400系列安装联接尺寸图 Dimensions and Mounting Data for IMB400



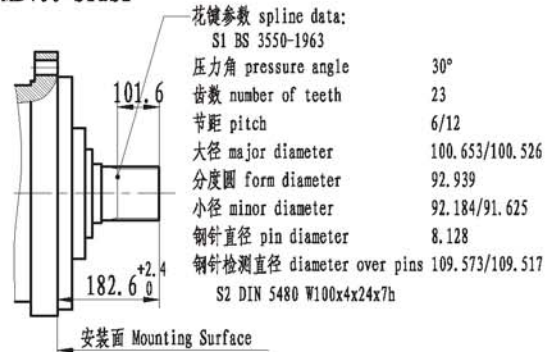
输出轴样式

SHAFTS

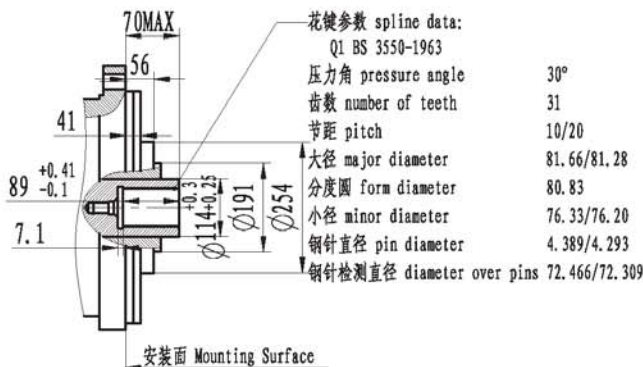
IMB400-P1



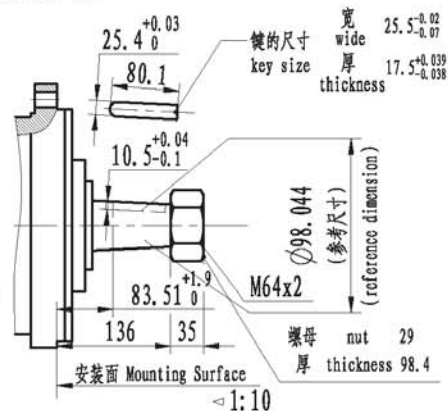
IMB400-S1&S2



IMB400-Q1



IMB400-T1



IMBP 系列马达是我公司吸收了国内外曲轴连杆式液压马达和平面配流的优点，大大地提高了液压马达的压力等级和容积效率。该系列马达具有可靠性好、效率高、寿命长、噪音低转速范围宽等一系列特点，可应用于船舶、矿山、建筑冶金、石油、煤矿、地质钻深、塑料行业等各种机械的液压传动系统中。

其主要特点:

- IMBP系列液压马达采用平面配流，泄漏少，容积效率高。
- IMBP系列液压马达在连杆和曲轴运动副间设计成静压平衡结构，使摩擦副得到良好的润滑，改善了轴的受力。
- 由于摩擦功损失和发热减少，马达的机械效率和启动效率得到提高，从而也提高了马达的工作受力。
- 该系列马达的曲轴采用了分体结构，提高了曲轴的使用寿命。
- 该系列马达的关键部位采用特殊材料和热处理工艺，有效的提高了马达的使用寿命。
- 该系列马达的外形尺寸和性能参数与英国STF公司HMB系列马达一致，可替代进口

产品标识说明



型号举例

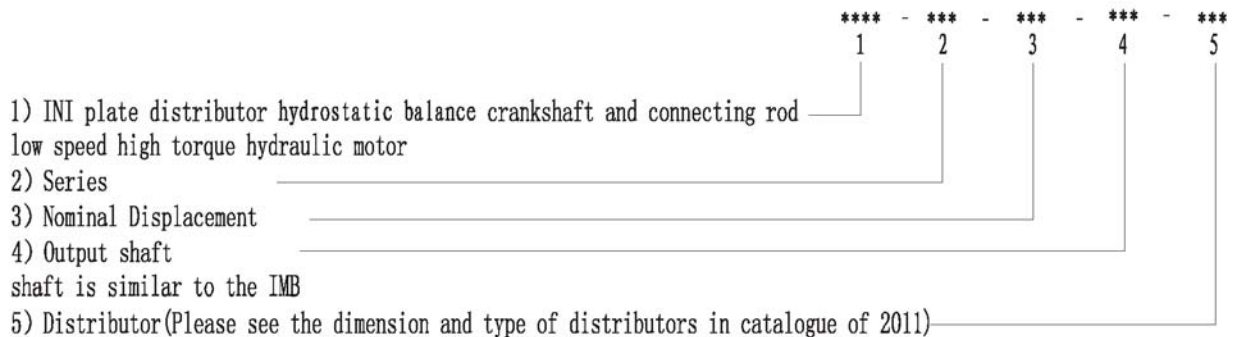
IMBP 200 2400 P1	
马达代号	IMBP
型号	200
排量	2400ml/r
平键轴	P1

IMBP series hydraulic motor absorbs the advantages of crankshaft connecting rod hydraulic motor and plate distributor from both home and abroad, improve volumetric efficiency and grade of pressure. This series motor featured compact and elegant figure, a high volumetric efficiency and power, low noise and good operating performance. Therefore, it has been widely applied to ship, construction, petroleum, mining, geological drilling, ship and deck machinery.

Main characteristics:

- Adopt plate distributor, lower drain, a high volumetric efficiency.
- Static pressure balance structure between shaft joint and connecting rod, thereby, it well smoothes the friction joint and releases shaft pressure.
- Because of the decrease of the friction work and heat loss, mechanical and starting efficiency increase, the motor's working force also improves.
- The shaft of this series employs fission structure to prolong motor life.
- All the key parts of this series use special material and employ special heat treatment, therefore, efficiently prolong motor life.
- As the dimension and performance data of this series are the same as HMB series of British Staffa Company, it could replace HMB.

Ordering Code

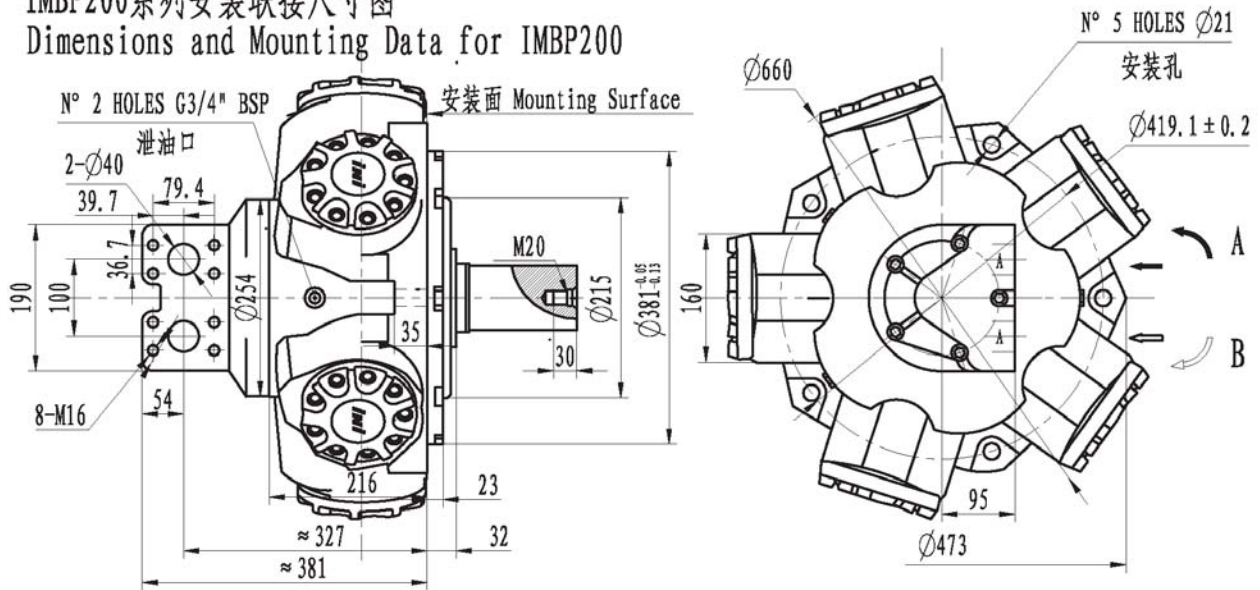


Example

IMBP 200 2400 P1	
Model	IMBP
Type	200
Displacement	2400ml/r
Parallel keyed shaft	P1

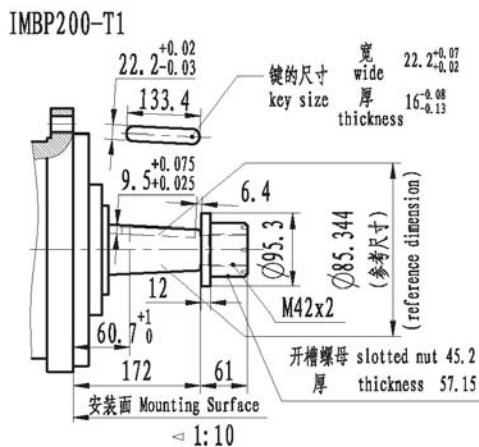
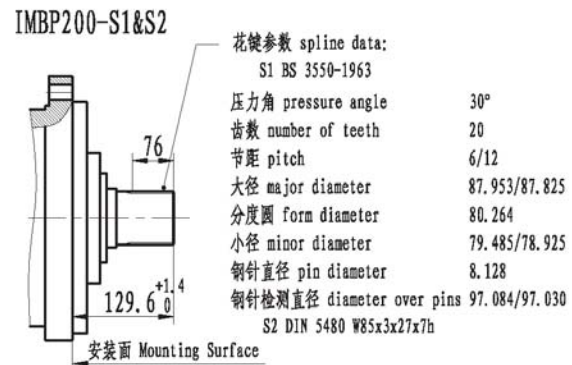
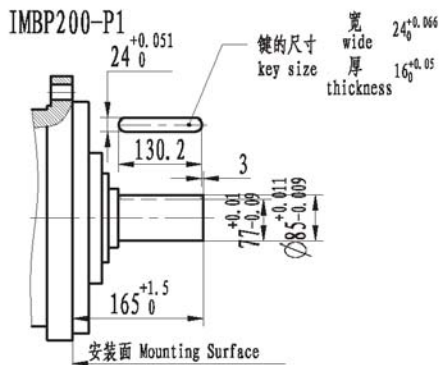
型号 TYPE	理论排量 (ml/r) THEORIC DISPLACEMENT	额定压力 (MPa) RATED PRESSURE	尖峰压力 (MPa) PEAK PRESSURE	额定扭矩 (N. m) RATED TORQUE	单位扭矩 (N. m/MPa) SPECIFIC TORQUE	最高转速 (r/min) MAX. SPEED	额定功率 (Kw) RATED PW	重量 (kg) WEIGHT
IMBP200-2400	2432	23	29	8182	356	220	120	285
IMBP200-2800	2757	23	29	9276	403	195	120	
IMBP200-3100	3080	23	29	10362	451	175	120	
IMBP270-3300	3291	23	29	11072	481	160	130	420
IMBP270-3600	3575	23	29	12028	523	145	130	
IMBP270-4000	3973	23	29	13367	581	130	130	
IMBP270-4300	4313	23	29	14511	631	120	130	

IMBP200系列安装联接尺寸图 Dimensions and Mounting Data for IMBP200

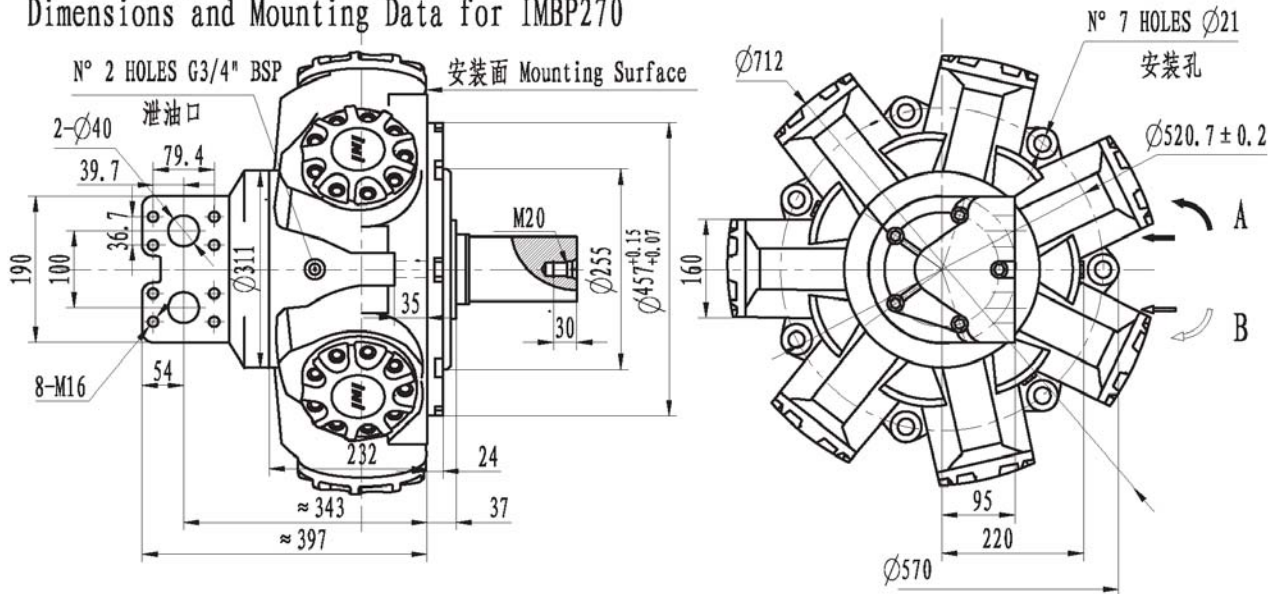


输出轴样式

SHAFTS



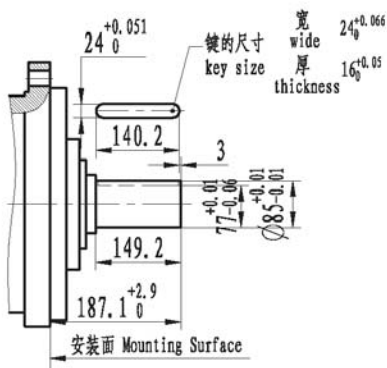
IMBP270系列安装联接尺寸图 Dimensions and Mounting Data for IMBP270



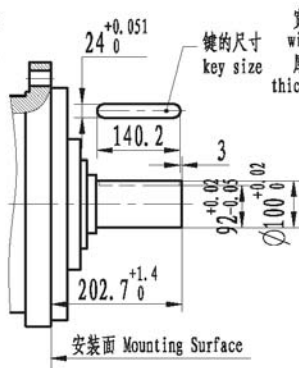
输出轴样式

SHAFTS

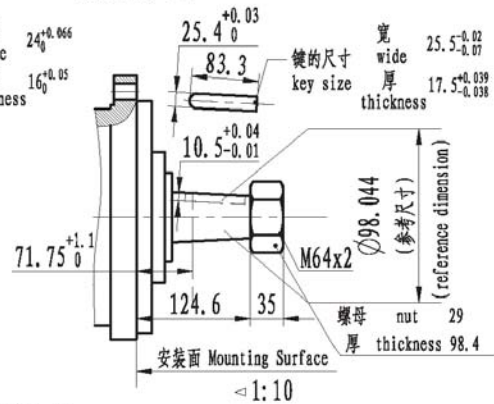
IMBP270-P3



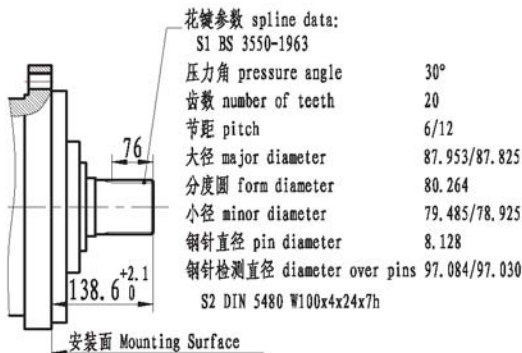
IMBP270-P2



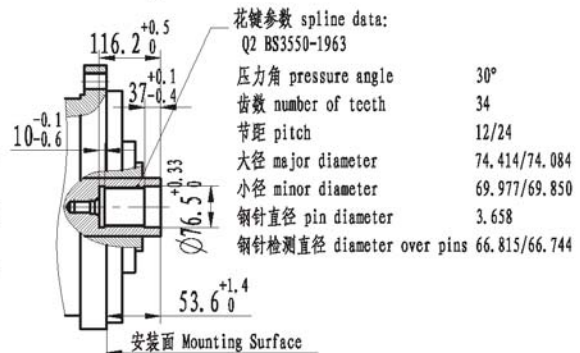
IMBP270-T1



IMBP270-S1&S2



IMBP270-Q1



IMC系列液压马达继承了IMB系列静压平衡的优点，具有同IMB系列同样的高效率、高启动扭矩、高容积效率等。
IMC系列液压马达具有双排量功能，可以从较宽范围的排量中选择适合于特殊应用需要的排量。可以通过远程控制或手动切换安装在马达上的方向控制阀来实现排量的切换，并且可以在马达运转中简单和轻松的实现。

其主要特点:

- 有两档排量，因而当泵供油流量不变情况下，马达可得两种转速
- 低速大扭矩
- 高效率
- 运转平稳
- 宽排量范围可供选择
- 可在运转时进行排量切换
- 电液或机械控制排量切换

主要运用:

起锚机、起重、卷扬机械及车辆的液压驱动等

产品标识说明



型号举例

IMC 200 2900 1500 S1 L1A	
两档变量马达	IMC
型号	200
大排量	2900ml/r
小排量	1500ml/r
轴	S1
变量控制方式	L1A 无控制阀

The IMC series hydraulic motor inherits the IMB series hydrostatic balance motor structure, high efficiency, high starting torque, high volumetric efficiency, etc.

The IMC series two-speed hydraulic motor enables users to select the required displacement for a wide range of special working conditions. Users can switch the displacement by using a remote control or by manual control—using the control valve mounted on the motors. The displacement can easily be changed while the motor is still running.

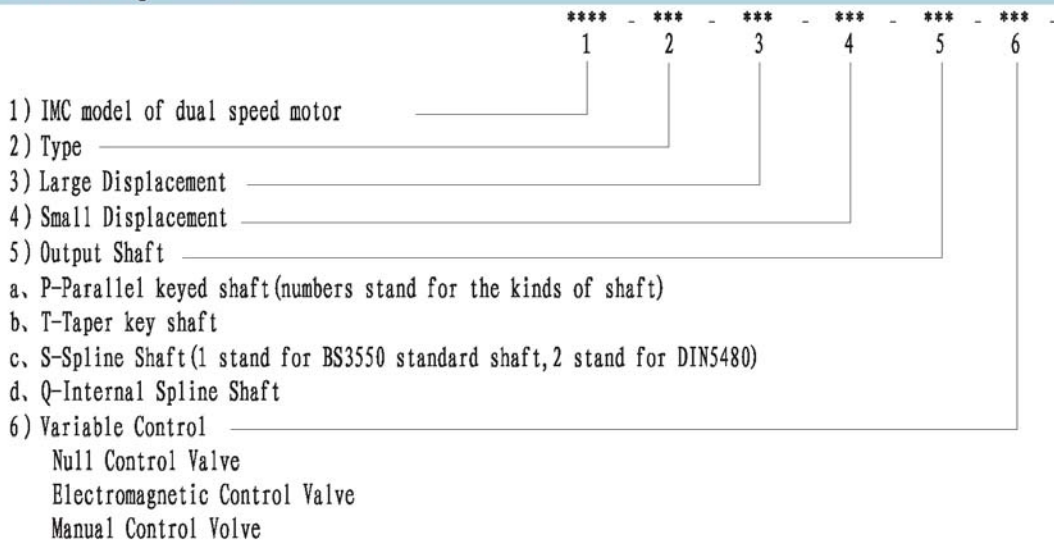
Its main characteristics are as follows:

- two-speed, so when the pump flow is constant, the motor has two-speed.
- Low speed & High-torque
- High Efficiency
- Stable Running
- Wide range of Displacement
- Switchable Displacement while the motor is running
- Switch realized with electro hydraulic or mechanical control

Main Application:

capstan, hoist, windless machinery, hydraulic drive for automobiles, etc,

Ordering Code



Example

IMC	200	2900	1500	S1	L1A-**
two-speed motor					IMC
type					200
large displacement					2900ml/r
small displacement					1500ml/r
shaft					S1
variable control					L1A null control valve

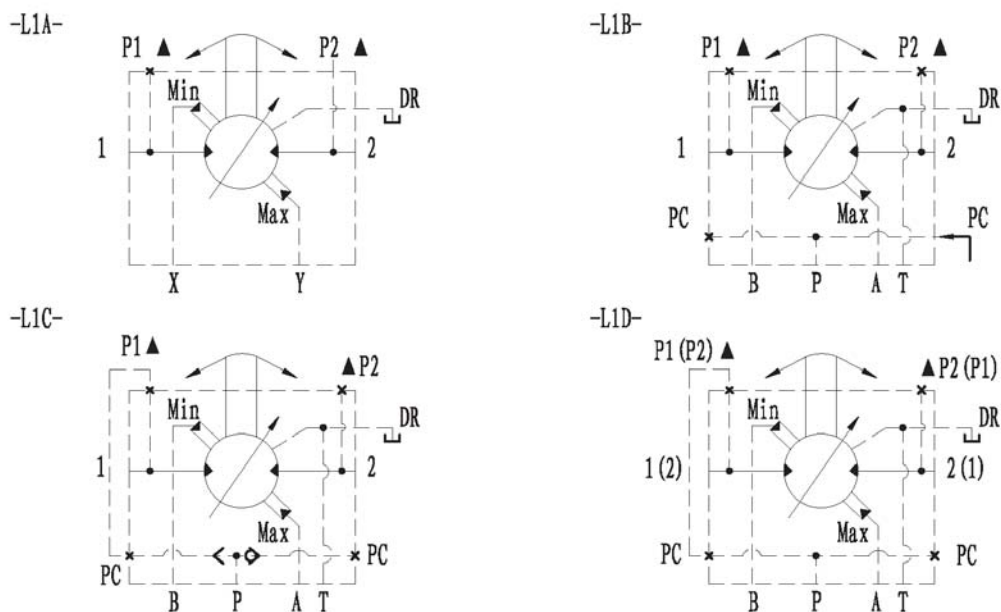
名义排量 NOMINAL DISPLACEMENT	1600	1500	1400	1300	1200	1100	1000	900	800	700	600	500	400	300	200	100
排量 ml/r DISPLACEMENT	1580	1481	1383	1284	1185	1086	987	889	790	691	592	494	395	296	197	98/0
单位扭矩 N.M/Mpa SPECIFIC TORQUE	225	212	198	184	169	155	140	125	108	94	78	68	45	30	18	0
最大持续转速 r/min MAX. CONT. SPEED	260	270	280	300	330	370	405	485	540	540	540	540	540	540	540	900
最大持续功率 KW MAX. CONT. POWER	99	98	96	93	90	84	82	79	74	69	57	46	35	23	10	0
最大断续功率 KM MAX. CONT. POWER	120	117	113	109	105	100	97	93	87	81	68	54	40	28	14	0
最大持续压力 Mpa MAX. CONT. PRESSURE	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	15
最大断续压力 Mpa MAX. TOP. PRESSURE	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	15

IMC100排量的选择范围 IMC100 Displacement Options

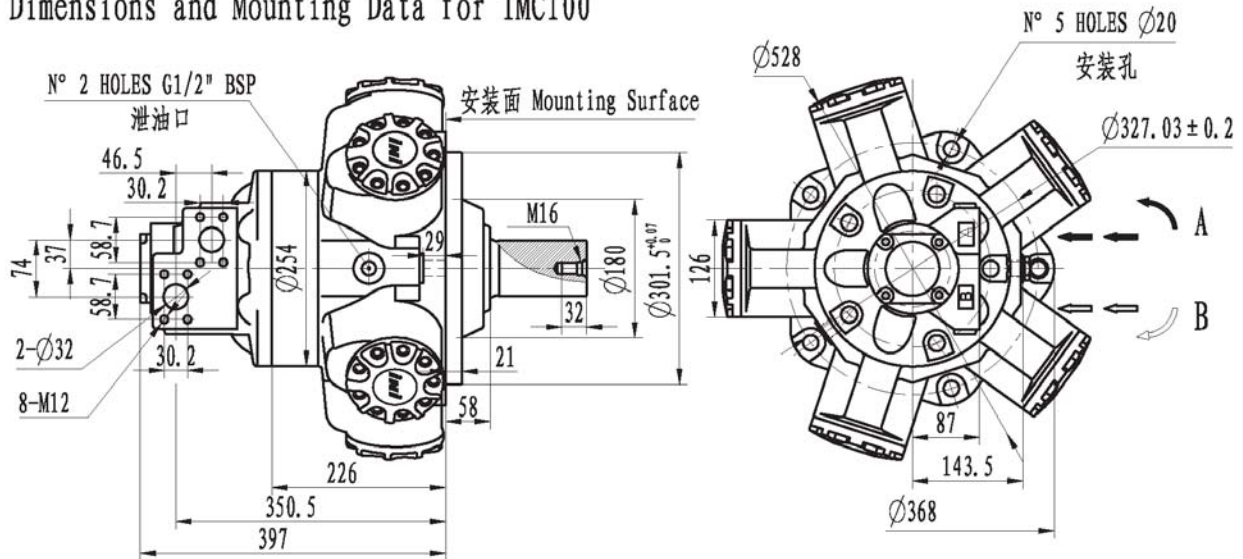
大排量 Large displacement: 1600, 1500, 1400, 1300, 1200, 1100, 1000, 900, 800:

小排量 Small displacement: 1100, 1000, 800, 700, 600, 500, 400, 300, 200, 100

控制原理图 Functional Symbols

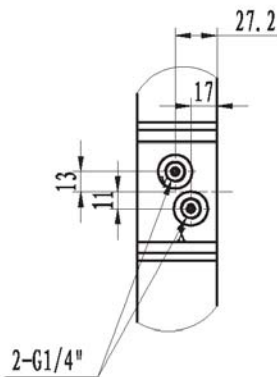


IMC100系列安装联接尺寸图
Dimensions and Mounting Data for IMC100

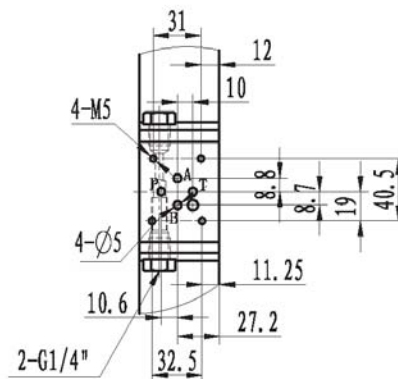


变量控制方法的安装尺寸 Variable Control's Mounting Data

L1A 的安装尺寸
L1A Mounting Data



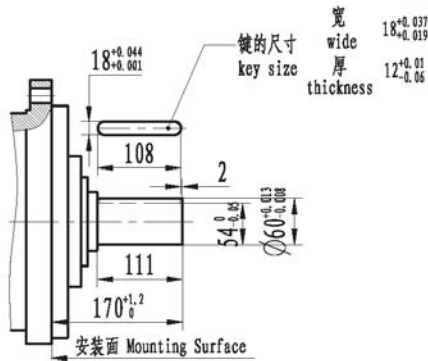
L1B&L1C&L1D 的安装尺寸
L1B&L1C&L1D Mounting Data



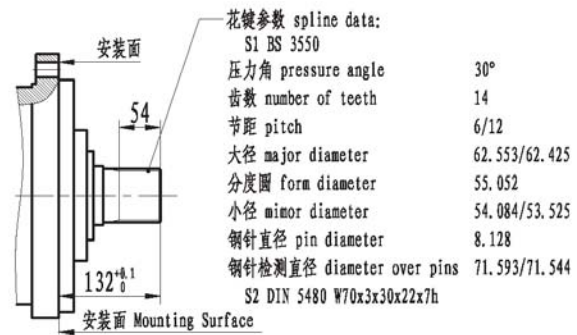
输出轴样式

SHAFTS

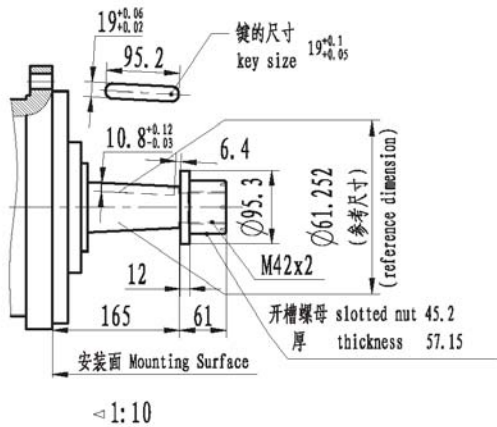
IMC100-P2



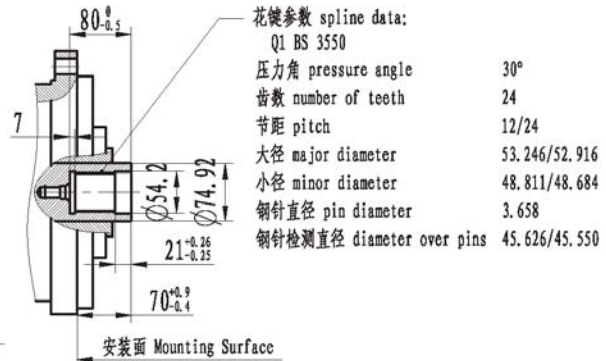
IMC100-S1&S2



IMC100-T1



IMC100-Q1



名义排量 NOMINAL DISPLACEMENT	2100	2000	1800	1600	1500	1300	1200	1000	830	670	510	350	190	110
排量 ml/r DISPLACEMENT	2066	1973	1811	1649	1487	1325	1163	1001	839	677	515	353	191	109/0
单位扭矩 N.M/Mpa SPECIFIC TORQUE	293	281	258	231	206	180	154	125	100	79	57	39	6	0
最大持续转速 r/min MAX. CONT. SPEED	170	175	190	210	230	265	305	350	395	485	540	540	540	900
最大持续功率 KW MAX. CONT. POWER	91	89	83	77	71	66	60	55	48	42	33	16	3	0
最大断续功率 KM MAX. CONT. POWER	106	104	99	95	90	85	79	73	65	57	44	28	5	0
最大持续压力 Mpa MAX. CONT. PRESSURE	21	21	21	21	21	21	21	21	21	21	21	21	21	15
最大断续压力 Mpa MAX. TOP. PRESSURE	25	25	25	25	25	25	25	25	25	25	25	25	25	15

IMC125排量的选择范围 IMC125 Displacement Options

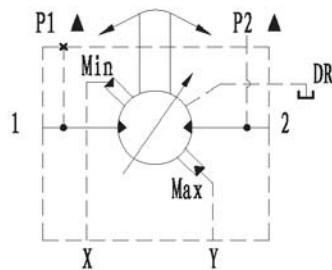
大排量 Large Displacement: 2100, 2000, 1800, 1600

小排量 Small Displacement: 1600, 1500, 1300, 1200, 1000, 830, 670, 510, 350, 190, 110

控制原理图 Functional Symbols

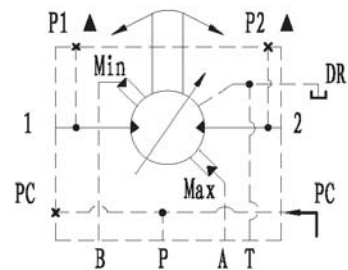
-F01-L1A-

-F02-L1A-



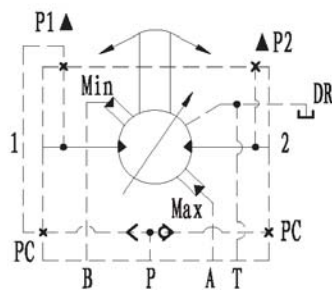
-F01-L1B-

-F02-L1B-



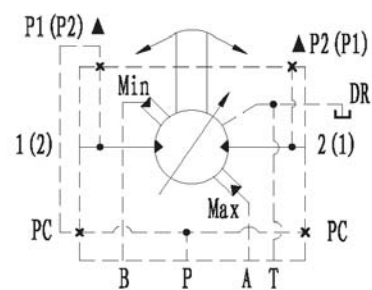
-F01-L1C-

-F02-L1C-

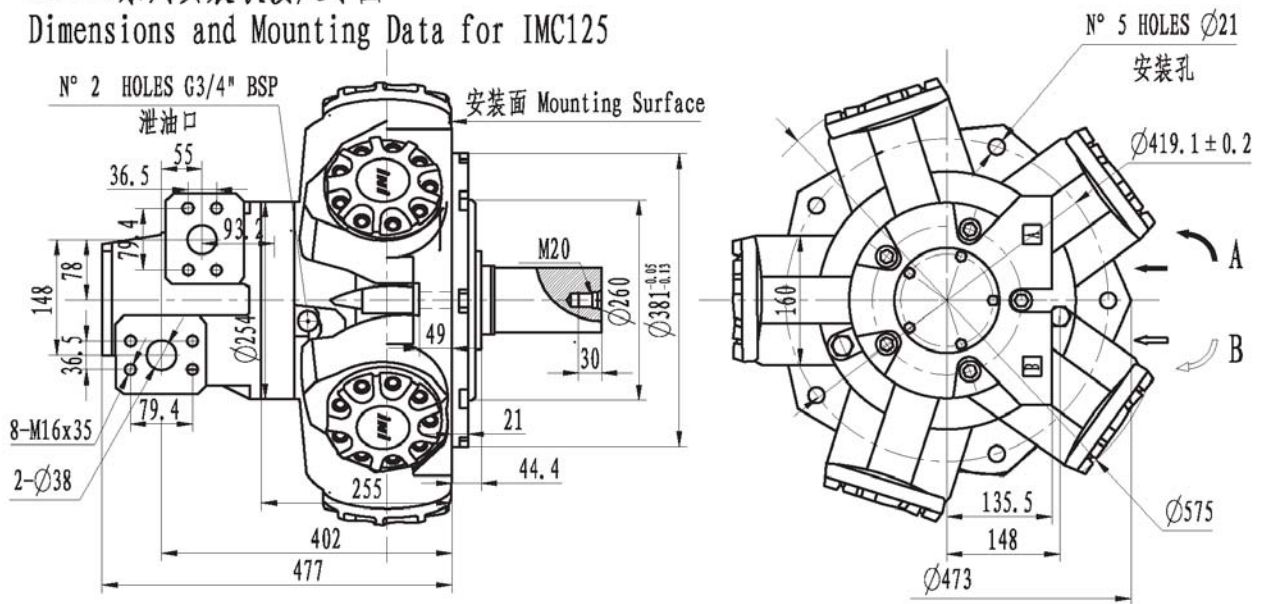


-F01-L1D-

-F02-L1D-

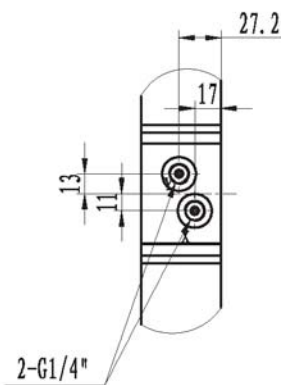


IMC125系列安装联接尺寸图
Dimensions and Mounting Data for IMC125

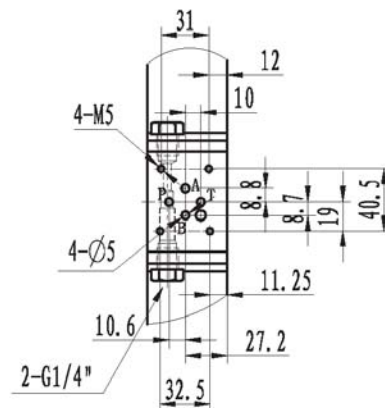


变量控制方法的安装尺寸 Variable Control's Mounting Data

L1A 的安装尺寸
L1A Munting Data

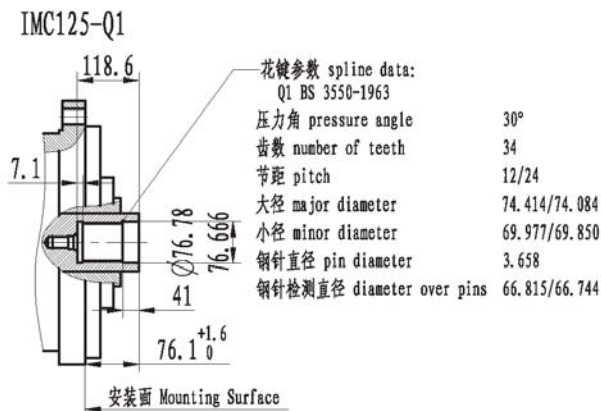
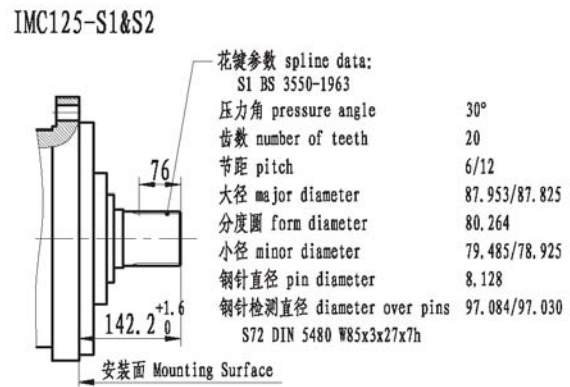
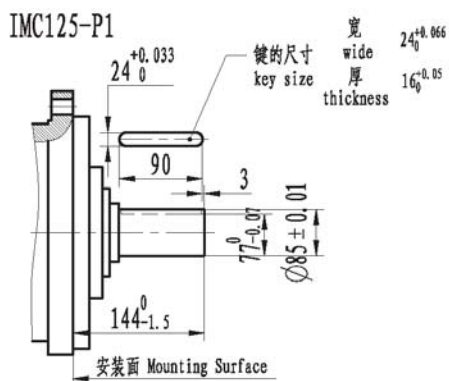


L1B&L1C&L1D 的安装尺寸
L1B&L1C&L1D Mounting Data



输出轴形式

SHAFTS



名义排量 NOMINAL DISPLACEMENT	3100	2900	2800	2600	2400	2300	2100	2000	1800	1600	1500	1300	1200	1000	830	670	510	350	190	110
排量 ml/r DISPLACEMENT	3080	2958	2796	2634	2472	2310	2148	1973	1811	1649	1487	1325	1163	1001	839	677	515	353	191	109/0
单位扭矩 N.M/Mpa SPECIFIC TORQUE	447	422	400	375	351	326	300	281	258	231	206	180	154	125	100	79	57	30	6	0
最大持续转速 r/min MAX. CONT. SPEED	110	115	125	135	140	150	160	175	190	210	230	265	305	350	395	485	540	540	540	900
最大持续功率 KW MAX. CONT. POWER	131	131	131	124	117	111	96	89	83	77	71	66	60	55	48	42	33	16	3	0
最大断续功率 KM MAX. CONT. POWER	146	146	146	139	131	124	116	104	99	95	90	85	79	73	65	57	44	28	5	0
最大持续压力 Mpa MAX. CONT. PRESSURE	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	15
最大断续压力 Mpa MAX. TOP. PRESSURE	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	15

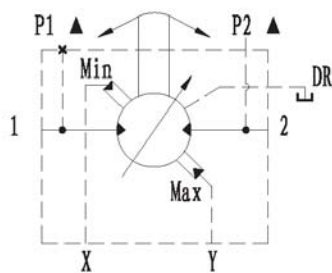
IMC200排量的选择范围 IMC200 Displacement Options

大排量 Large Displacement: 3100, 2900, 2800, 2600, 2400, 2300, 2100, 2000, 1800, 1600

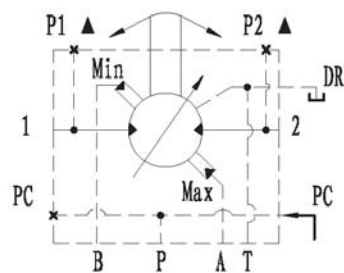
小排量 Small Displacement: 2300, 2100, 2000, 1800, 1600, 1500, 1300, 1200, 1000, 830, 670, 510, 350, 190, 110

控制原理图 Functional Symbols

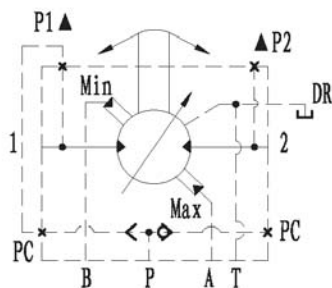
-L1A-



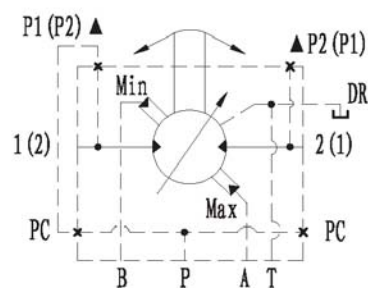
-L1B-



-L1C-

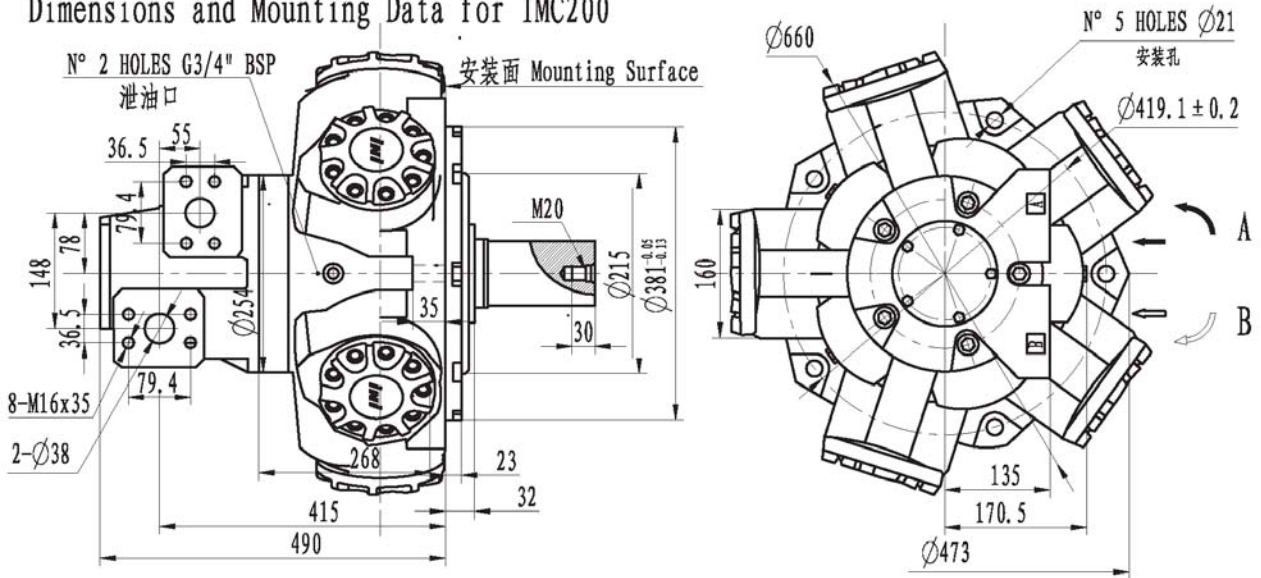


-L1D-



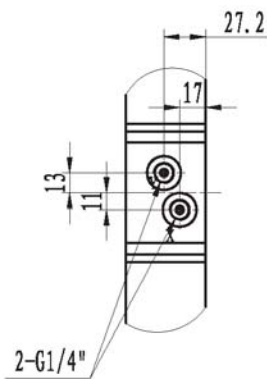
IMC200系列安装联接尺寸图

Dimensions and Mounting Data for IMC200

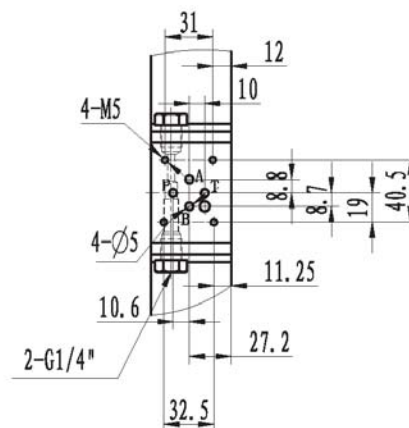


变量控制方法的安装尺寸 Variable Control's Mounting Data

L1A 的安装尺寸
L1A Munting Data



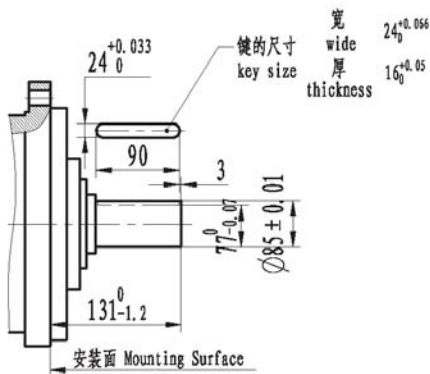
L1B&L1C&L1D 的安装尺寸
L1B&L1C&L1D Mounting Data



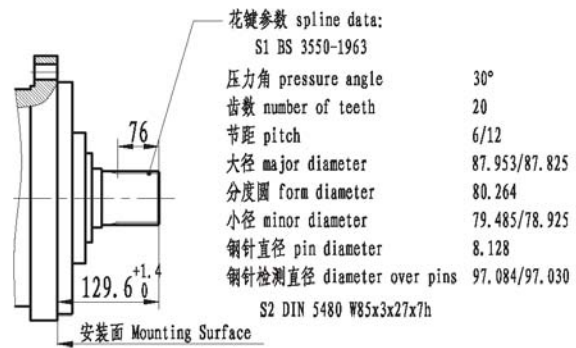
输出轴样式

SHAFTS

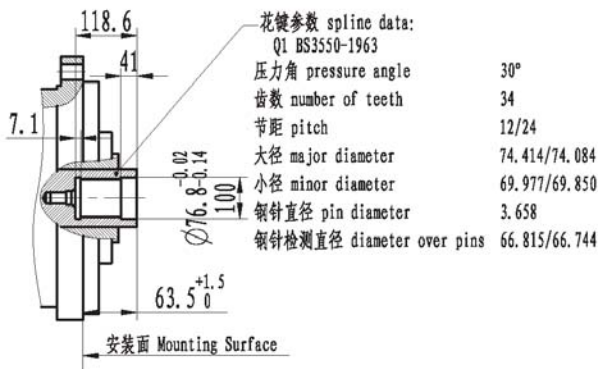
IMC200-P1



IMC200-S1&S2



IMC200-Q1



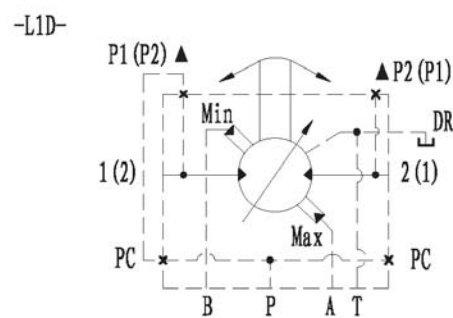
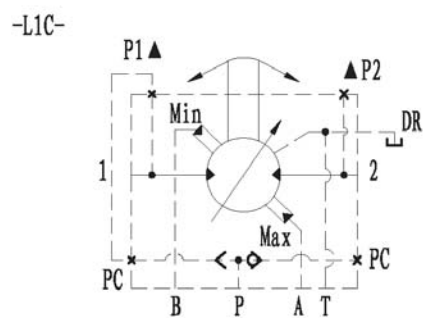
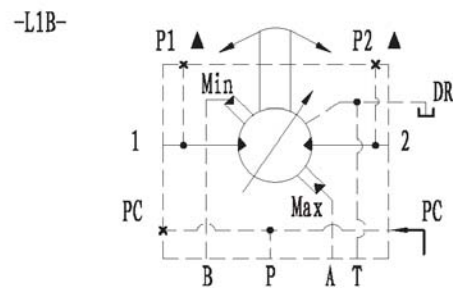
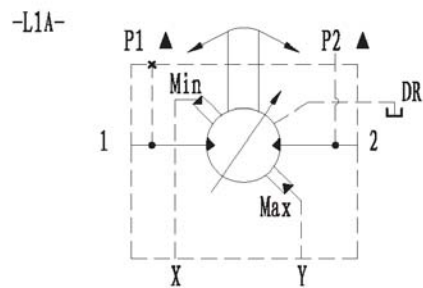
名义排量 NOMINAL DISPLACEMENT	4600	4100	3600	3300	3000	2600	2300	1900	1600	1400	970	680	340	170
排量 ml/r DISPLACEMENT	4597	4086	3632	3291	2951	2610	2270	1930	1649	1362	965	681	340	170/0
单位扭矩 N.M/Mpa SPECIFIC TORQUE	657	585	514	460	419	356	310	259	210	168	108	73	24	0
最大持续转速 r/min MAX. CONT. SPEED	108	120	135	145	165	180	215	240	290	315	315	315	315	900
最大持续功率 KW MAX. CONT. POWER	123	115	104	97	90	83	76	68	59	48	37	25	8	0
最大断续功率 KM MAX. CONT. POWER	153	149	142	136	129	122	112	102	91	81	68	47	12	0
最大持续压力 Mpa MAX. CONT. PRESSURE	21	21	21	21	21	21	21	21	21	21	21	21	21	15
最大断续压力 Mpa MAX. TOP. PRESSURE	25	25	25	25	25	25	25	25	25	25	25	25	25	15

IMC270排量的选择范围 IMC270 Displacement Options

大排量 Large Displacement: 4600, 4100, 3600, 3300

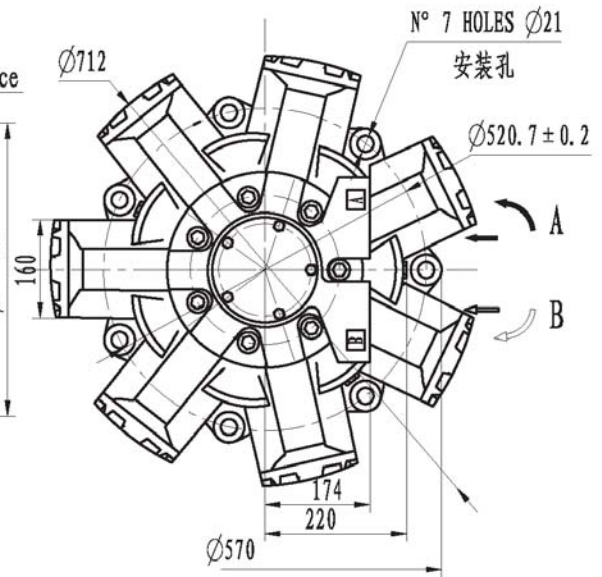
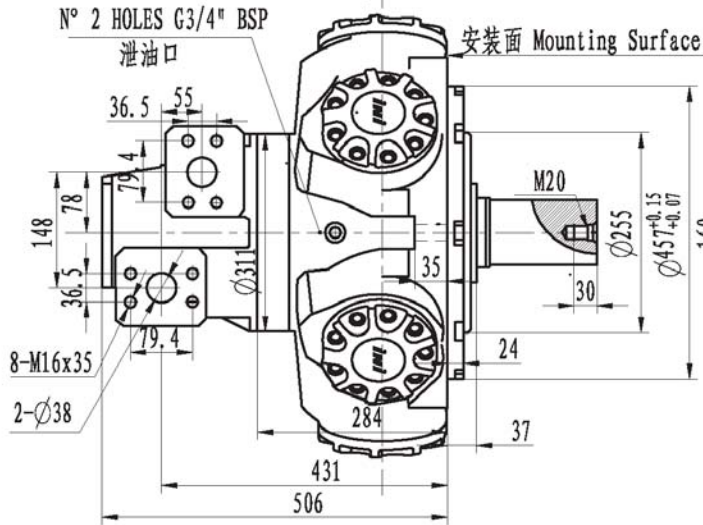
小排量 Small Displacement: 3300, 3000, 2600, 2300, 1900, 1600, 1400, 970, 680, 340, 170

控制原理图 Functional Symbols



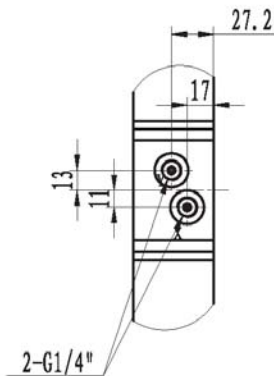
IMC270系列安装联接尺寸图

Dimensions and Mounting Data for IMC200

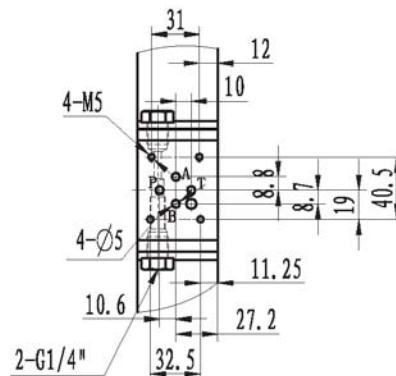


变量控制方法的安装尺寸 Variable Control's Mounting Data

L1A 的安装尺寸
L1A Munting Data



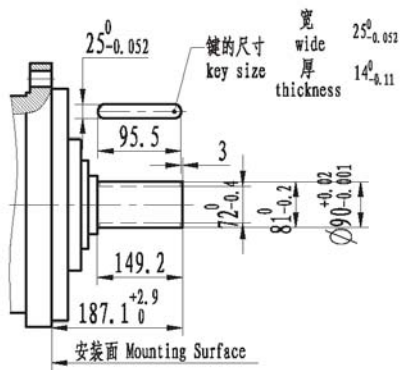
L1B&L1C&L1D 的安装尺寸
L1B&L1C&L1D Mounting Data



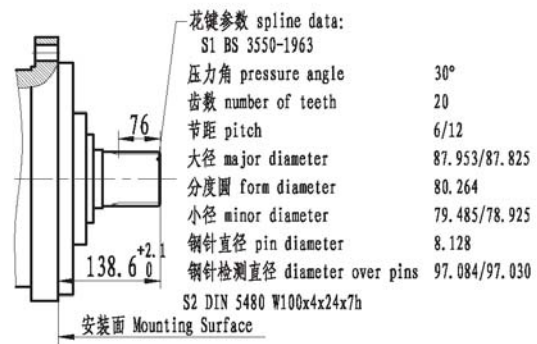
输出轴样式

SHAFTS

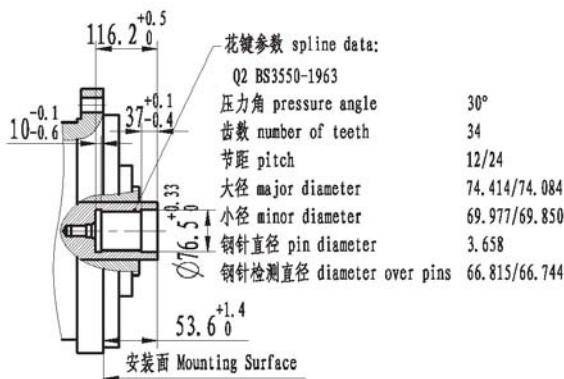
IMC270-P1



IMC270-S1&S2



IMC270-Q1



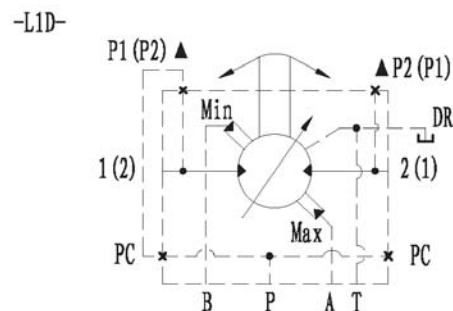
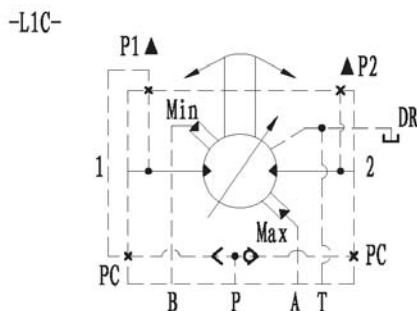
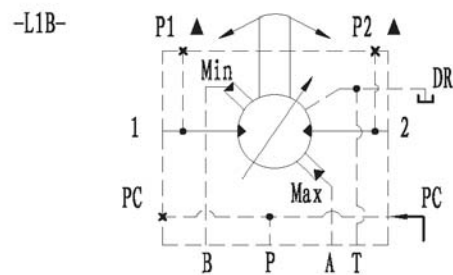
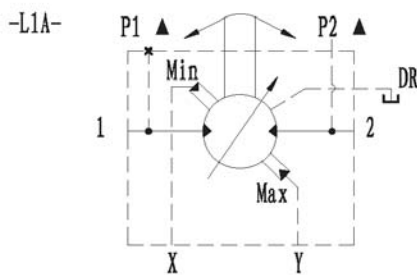
名义排量 NOMINAL DISPLACEMENT	5300	5100	4900	3600	3300	3000	2600	2300	1900	1600	1500	1400
排量 ml/r DISPLACEMENT	5335	5108	4937	3632	3291	2951	2610	2270	1930	1646	1532	1362
单位扭矩 N.M/Mpa SPECIFIC TORQUE	763	731	706	514	460	419	356	310	259	210	196	168
最大持续转速 r/min MAX. CONT. SPEED	90	105	110	135	145	165	180	215	240	290	315	315
最大持续功率 KW MAX. CONT. POWER	123	123	123	104	97	90	83	76	68	59	54	48
最大断续功率 KM MAX. CONT. POWER	153	153	153	142	136	129	122	112	102	91	87	81
最大持续压力 Mpa MAX. CONT. PRESSURE	21	21	21	21	21	21	21	21	21	21	21	15
最大断续压力 Mpa MAX. TOP. PRESSURE	25	25	25	25	25	25	25	25	25	25	25	15

IMC325排量的选择范围 IMC325 Displacement Options

大排量 Large Displacement: 5300, 5100, 4900;

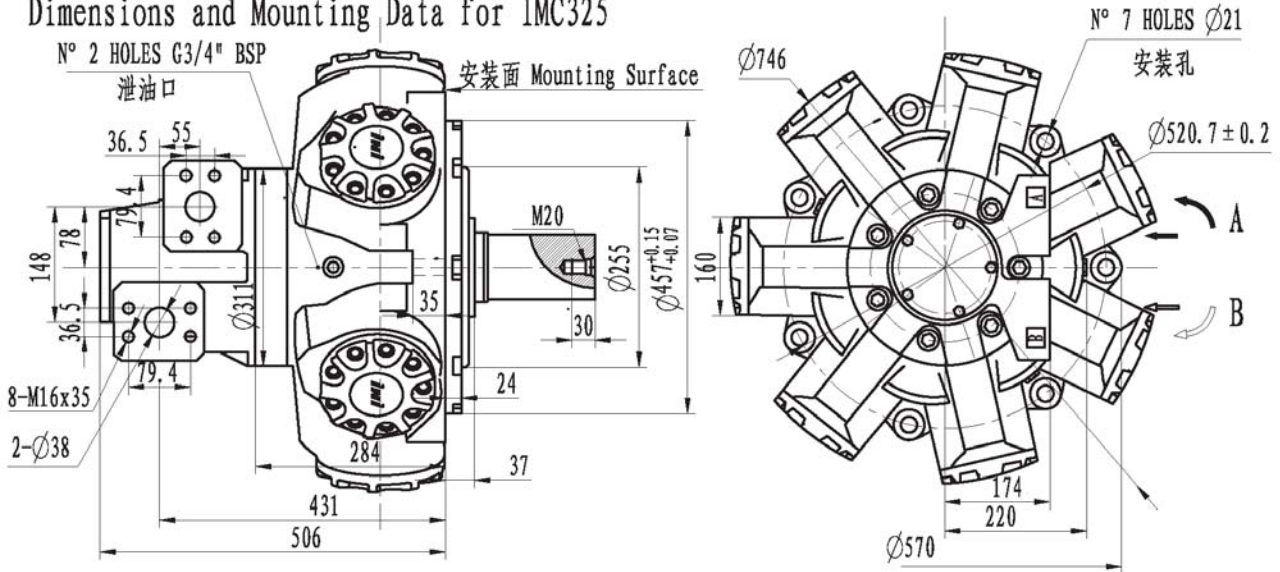
小排量 Small Displacement: 3600, 3300, 3000, 2600, 2300, 1900, 1600, 1500, 1400

控制原理图 Functional Symbols



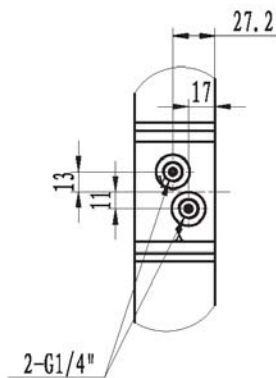
IMC325系列安装联接尺寸图

Dimensions and Mounting Data for IMC325

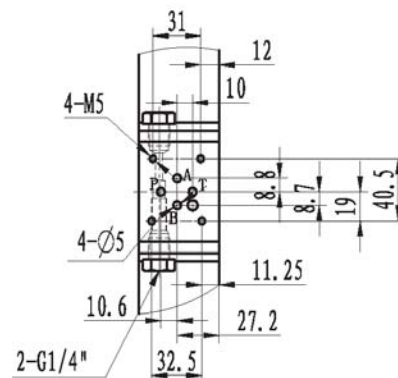


变量控制方法的安装尺寸 Variable Control's Mounting Data

L1A 的安装尺寸
L1A Munting Data



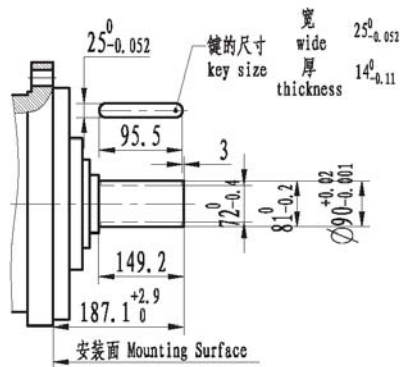
L1B&L1C&L1D 的安装尺寸
L1B&L1C&L1D Mounting Data



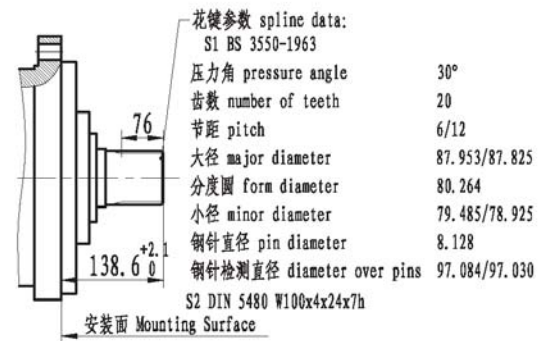
输出轴样式

SHAFTS

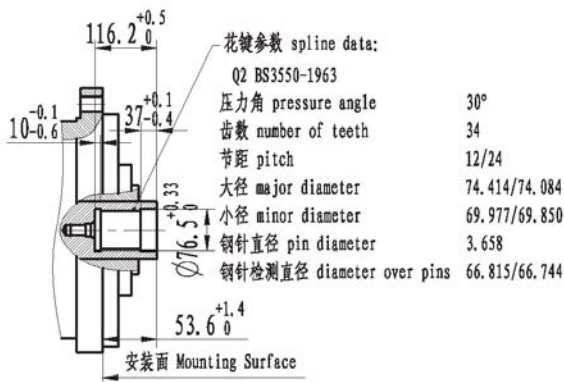
IMC325-P1



IMC325-S1&S2



IMC325-Q1





1. 采用高科技复合材料，并通过工艺改进解决了前往马达球窝与球塞配合精度低等问题，改进后马达压力比原先提高2倍、摩擦系数降低1倍、寿命则延长4倍左右。

2. 马达采用先进的平面配流（专利）技术，简单可靠、密封性好、泄漏少、马达容积效率由92%提高到98%以上。

3. 定子内曲线全由进口加工中心、数控机床加工，由于曲面精度与表面粗糙度的提高合马达机械效率同比提高约20%。



QJM型液压马达可与各种油泵、阀及液压附件配套组成液压传动装置，由于它在设计上采取了各种措施，故可适应各种机器的工况。该型马达具有重量轻、体积小、调整范围大，可有级变量、机械制动器可自动启闭、低速稳定性好、工作可靠、耐冲击、效率高、寿命长等一系列优点。目前已广泛应用于建筑工程、起重运输、冶金重型、石油、煤矿、船舶、机床、轻工注塑、地质勘探等部门。可直接驱动履带行走、轨道轮子驱动、各种回转提升机械、勘探钻孔、带式输送、物料搅拌、路面切割、船舶推进、塑料预塑等机构。



QJM系列马达工作时，高压油由马达进油口进入，再经配流器进入缸体、缸孔推动球塞组件沿着定子滚道环的曲线轨道，在 0° 至 30° 上作升程运动。球塞组件对曲线轨道产生作用力，而曲线轨道对球塞组件产生反作用力，该反作用力的切向分力又作用到缸体上，由此驱动缸体产生转矩，通过传动轴输出。球塞组件在升程动作至 300° 时进油结束。当进入 30° 至 60° 时，缸体、缸孔通过配流器与回油孔（低压腔）接通，作回程运动，至 60° 时，组件回程工作结束，至此该组组件的一次工作（升、回程）全部结束。接着又进入下一次升、回程工作。其余组件工作同样类推。回流路线，低压油经配流器的回油孔、马达出油口流回油箱。

● 如何合理选型

● 同一基型的液压马达，压力等级有3种，其额定压力分别为10、16、20MPa，尖峰压力分别为16、25、31.5MPa，如何合理选择种比较适合主机工况型号呢？首先应考虑提高传动效率，对传动功率较小、转速低，扭矩大的工况，此时影响传动总效率的主要因素是容积效率，对传动功率相同的液压装置，降低系统工作压力能显著提高容积效率，因此这时应选用额定压力为10MPa型号，同时实际工作压力还应选得低些，当传动功率越小，转速越低时工作压力越低越有利。相反对传动功率大，转速较高的工况，此时影响传动总效率的主要因素是机械效率，因此这时应选用额定压力为16或20MPa的型号。其次对于有低速稳定性要求的工况，选型中应注意液压马达排量越大，低速稳定性越好，它还与工作压力有关，工作压力越低低速稳定性越好。

● 排量相同的几个不同基型的液压马达，如何选择一种合理的型号呢？这与使用工况和使用寿命要求有关，对于短期间隙运转、整个大修期间累计工作时间较短的机械，可以选用基型编号较小的型号，而对于第天累计运转时间长，使用寿命又要求较长的机械，应尽可能选用基型编号较大的型号，必要时应选用高压的型号，但在较低的压力条件下使用，此时能显著提高使用寿命，因为QJM型液压马达的使用寿命与使用压力的3.3次方成反比，也就是使用压力降低一半、寿命可提高10倍。

● 对系统工作介质的和过滤的要求

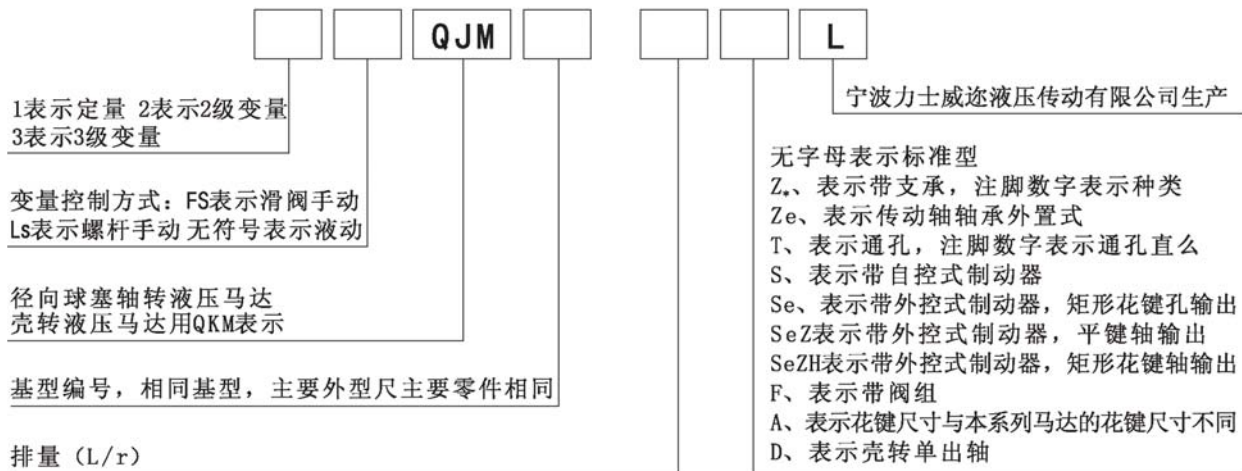
● QJM液压马达的工作介质可以采用液压油或机械油等矿物油。当采用低凝液压油时，工作温度范围：-40℃~80℃，用机械油时工作温度范围0℃~60℃。

对油液粘度要求：（50℃时）额定压力在10MPa以下16~28mm²/S
 16MPa以下28~35mm²/S
 20MPa以下35~43mm²/S

一般建议选用46号抗磨液压油。

● 工作介质必须清洁，滤油精度可按配套油泵要求选定。

● 型号说明



● 型号说明举例

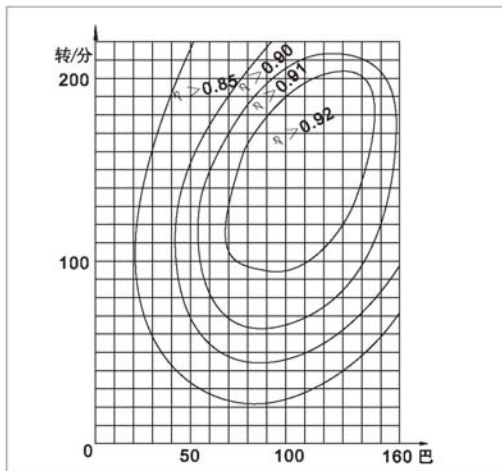
2LS QJM21-0.63 SZL表示双速手动螺杆控制变量的径向轴转柱塞液压马达，基型为21，排量为0.63升/转，带自控式制动器、平键轴输出具有宁波力士威迺公司特点马达。

● QJM型各基型的额定流量(=额定转速x排量)

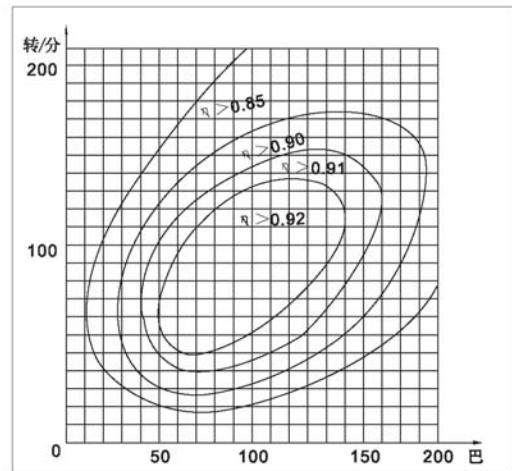
Flow rate of QJM motors(=rated speedxdisplacement)

基型 Series	QJM001	QJM01	QJM11	QJM12	QJM21	QJM31	QJM32	QJM42	QJM52	QJM62
额定流量 flow rate L/min	50	63	80	80	100	125	160	250	320	400
外径 outer diameter mm	φ140	φ180	φ240	φ240	φ300	φ320	φ320	φ350	φ420	φ485

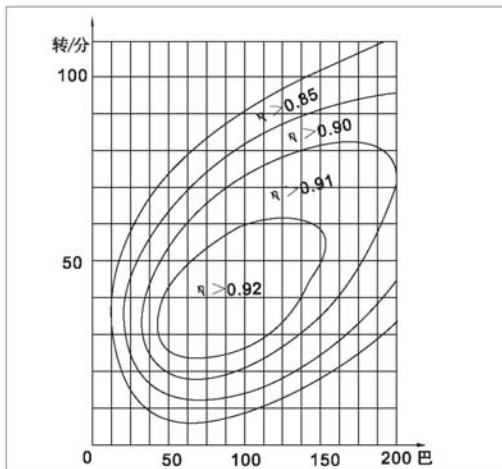
● 效率特性曲线 Performance Curve of Efficiency



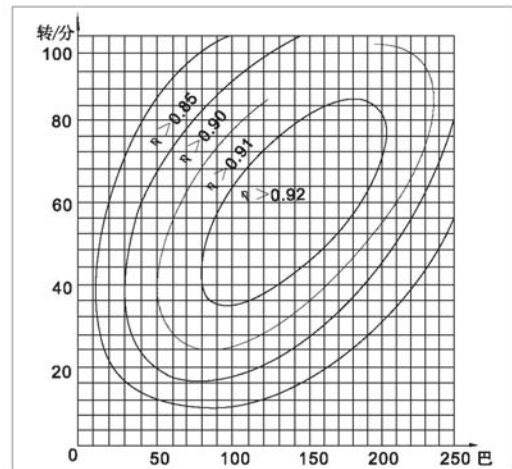
1QJM11-0.5L型效率特性曲线
Model 1QJM11-0.5L performance curve of efficiency



1QJM21-0.63L型效率特性曲线
Model 1QJM21-0.63L performance curve of efficiency



1QJM32-1.25L型效率特性曲线
Model 1QJM32-1.25L performance curve of efficiency



2QJM42-2.5L型效率特性曲线
Model 2QJM42-2.5L performance curve of efficiency

● 1QJM——**L型液压马达技术参数（理论参数未考虑效率）**

Technical data of 1QJM**——**L series fixed displacement hydraulic motor

型号 Type	排量 Displacement (L/rev)	压力 Pressure(MPa)		转速范围 Rotational Speed range (r/min)	额定输出 扭矩 Rated output (N.m)	最大功率 Max.power
		额定 Rated	尖峰 Peak			
1QJM001-0.063L	0.064	10	16	8-600	95	1.4
1QJM001-0.08L	0.083	10	16	8-500	123	1.8
1QJM001-0.10L	0.104	10	16	8-400	154	2.3
1QJM002-0.2L	0.2	10	16	5-320	295	4.3
1QJM01-0.1L	0.10	10	16	8-400	148	2.2
1QJM01-0.16L	0.163	10	16	8-350	241	3.6
1QJM01-0.2L	0.203	10	16	8-320	300	4.4
1QJM02-0.32L	0.326	10	16	5-320	483	7.1
1QJM02-0.4L	0.406	10	16	5-320	600	8.8
1QJM11-0.32L	0.339	10	16	5-400	468	5.9
1QJM1A-0.4L	0.404	10	16	5-400	598	7.5
1QJM11-0.5L	0.496	10	16	5-320	734	9.2
1QJM11-0.63L	0.664	10	16	4-250	983	12.4
1QJM1A1-0.63L	0.664	10	16	4-250	983	12.4
1QJM21-0.4L	0.404	16	25	2-400	957	10.0
1QJM21-0.5L	0.496	16	25	2-320	1175	12.3
1QJM21-0.63L	0.664	16	25	2-250	1572	16.5
1QJM21-0.8L	0.808	16	25	2-200	1913	20.0
1QJM21-1.0L	1.01	10	16	2-160	1495	15.8
1QJM21-1.25L	1.354	10	16	2-125	2004	21
1QJM21-1.6L	1.65	10	16	2-100	2442	25.6
1QJM12-1.0L	1.0	10	16	4-200	1480	18.6
1QJM12-1.25L	1.33	10	16	4-160	1968	24.8
1QJM32-0.63L	0.635	20	31.5	3-300	1880	19.8
1QJM32-0.8L	0.808	20	31.5	3-250	2368	24.8
1QJM32-1.0L	1.06	20	31.5	2-250	3138	33.0
1QJM32-1.25L	1.295	20	31.5	2-200	3833	40.0
1QJM32-1.6L	1.649	20	31.5	2-200	4881	51.2
1QJM32-2.0L	2.03	16	25	2-200	4807	50.5
1QJM32-2.5L	2.71	16	16	1-160	4011	42
1QJM32-3.2L	3.3	10	16	1-125	1884	51.2
1QJM32-4.0L	4.0	10	16	1-100	5920	62.0
1QJM42-2.0L	2.11	20	31.5	1-250	6246	52.5
1QJM42-2.5L	2.56	20	31.5	1-250	7578	63.5
1QJM42-3.2L	3.24	10	16	1-200	4850	40.8
1QJM42-4.0L	4.0	10	16	1-160	5920	50.0
1QJM42-4.5L	4.6	10	16	1-125	6808	57.0
1QJM52-2.5L	2.67	20	31.5	1-200	7903	66.2
1QJM52-3.2L	3.24	16	31.5	1-200	9590	80.5
1QJM52-4.0L	4.0	10	25	1-200	9472	80.0
1QJM52-5.0L	5.23	10	16	1-160	7740	65.0
1QJM52-6.3L	6.36	20	16	1-125	9413	79.0
1QJM62-4.0L	4.0	20	31.5	0.5-150	11840	74.5
1QJM62-5.0L	5.18	20	31.5	0.5-105	15333	96.5
1QJM62-6.3L	6.27	16	25	0.5-125	14847	93.5
1QJM62-8L	7.85	10	16	0.5-100	11618	73.0
1QJM62-10L	10.15	10	16	0.5-80	15022	95.0

注：1. 各型带支承和带阀组液压马达其技术参数与上表中对应的标准型液压马达技术参数相同。

2. 1QJM322-**L型马达其技术参数与上表中1QJM32标准相同。

Note: 1. The technical parameters of various sorts of types hydraulic motors with bearing have the same data as standard type hydraulic motors.

2. Technical parameters of 1QJM322-**L motors are the same as those of 1QJM32 above listed.

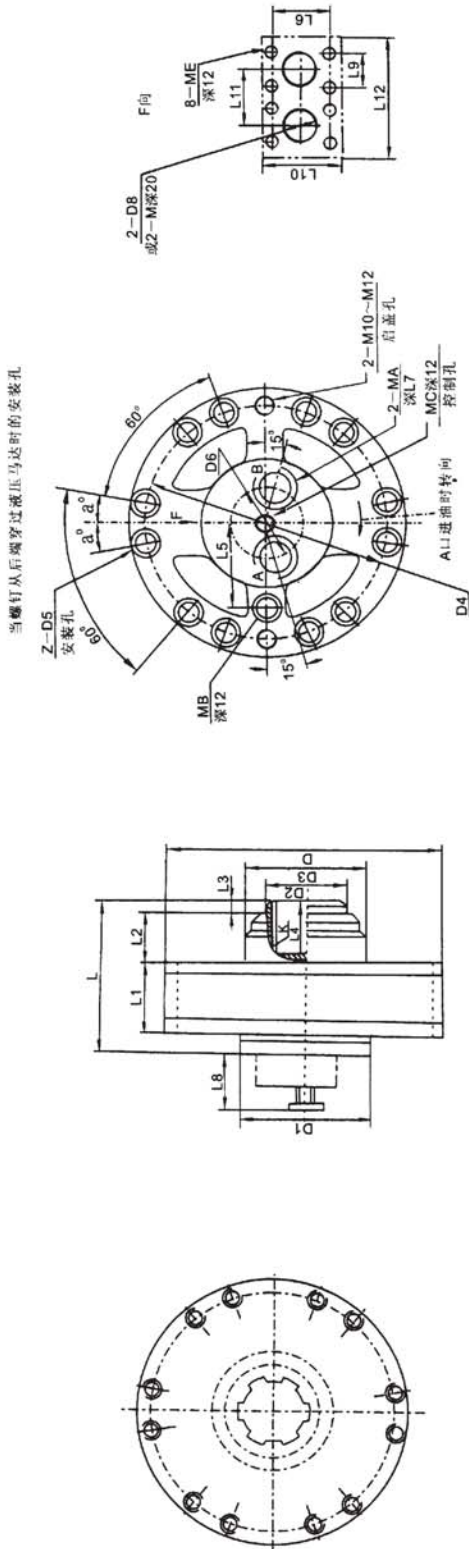
● 2QJM※※——※※L型液压马达技术参数（理论参数未考虑效率）

Technical data of 2QJM※※——※※L series variable displacement hydraulic motor

型号 Type	排量 Displacement (L/rev)	压力 Pressure(MPa)		转速范围 Rotational Speed range (r/min)	额定输出 扭矩 Rated output torque (N.m)	最大功率 Max.power
		额定 Rated	尖峰 Peak			
2QJM02-0.4L	0.406,0.203	10	16	5-320	600,300	8.8
2QJM11-0.4L	0.404,0.202	10	16	5-400	598,299	7.5
2QJM11-0.5L	0.496,0.248	10	16	5-320	734,367	9.2
2QJM11-0.63L	0.664,0.332	10	16	4-250	938,492	12.4
2QJM21-0.32L	0.317,0.1585	16	25	2-320	751,376	8.0
2QJM21-0.5L	0.496,0.248	16	25	2-320	1175,588	12.4
2QJM21-0.63L	0.664,0.332	16	25	2-250	1572,786	16.5
2QJM21-1.0L	1.01,0.505	10	16	2-160	1495,748	15.8
2QJM21-1.25L	1.354,0.677	10	16	2-125	2004,1002	21
2QJM21-1.6L	1.65,0.825	10	16	2-100	2442,1221	25.6
2QJM32-0.63L	0.635,0.318	20	31.5	3-500	1880,940	19.8
2QJM32-1.0L	1.06,0.53	20	31.5	2-400	3138,1519	33.0
2QJM32-1.25L	1.295,0.648	20	31.5	2-320	3833,1917	40.2
2QJM32-1.6L	1.649,0.825	20	31.5	2-250	4881,2441	51.2
2QJM32-1.6/1.4L	1.6,0.4	20	31.5	2-250	4736,1184	49.6
2QJM32-2.0L	2.03,1.015	16	25	2-200	4807,2404	50.5
2QJM32-2.5L	2.71,1.355	10	16	1-160	4011,2006	42.0
2QJM32-3.2L	3.3,1.65	10	16	1-125	4844,2442	51.2
2QJM32-4.0L	4.0,2.0	10	16	1-100	5920,2960	62.0
2QJM42-2.0L	2.11,1.055	20	31.5	1-320	6246,3123	52.55
2QJM42-2.5L	2.56,1.28	20	31.5	1-250	7578,3789	63.5
2QJM42-3.2L	3.24,1.62	10	16	1-200	4850,2425	40.8
2QJM42-4.0L	4.0,2.0	10	16	1-160	5920,2960	50.0
2QJM42-4.5L	4.6,2.3	10	16	1-125	6808,3404	66.0
2QJM52-2.5L	2.67,1.335	20	31.5	1-320	7903,3952	66.2
2QJM52-3.2L	3.24,1.62	20	31.5	1-250	9590,4795	80.5
2QJM52-4.0L	4.0,2.0	16	25	1-200	9472,4736	80.0
2QJM52-5.0L	5.23,2.615	10	16	1-160	7740,3870	85.0
2QJM52-6.3L	6.36,3.18	10	16	1-125	9413,4707	79.0
2QJM62-4.0L	4.0,2.0	20	31.5	0.5-200	11840,5920	74.5
2QJM62-5.0L	5.18,2.59	20	31.5	0.5-160	15333,7667	96.5
2QJM62-6.3L	6.27,3.135	16	25	0.5-125	14847,7424	93.5
2QJM62-8.0L	7.85,3.925	10	16	0.5-100	11618,5809	73.0
2QJM62-10L	10.15,5.075	10	16	0.5-80	15022,7511	95.0
3QJM32-1.25L	1.295,0.648,0.324	20	31.5	2-320	3833,1917,959	40.2
3QJM32-1.6L	1.649,0.825,0.413	20	31.5	2-250	4881,2441,1221	51.2

注：1. 各型带支承和带阀组变量液压马达的技术参数与上表中对应的变量液马达技术参数相同。

Note:1. The technical parameters of various sorts of variable hydraulic motors with bearing and oil passing valve have the same data as variable hydraulic motors.



● 外形联接尺寸 External Coupling Dimension

型号	L	L1	L2	L3	L4	L5	L7	L8	L9	L10	L11	L12	D	D1	D2	D3	D4	Z-D5	D6	D7	MA	MB	MC	ME	a°	K	重量 (kg)
1QJM001-1L	101	58	38	5	20	43	20	37	-	37	35±0.3	63	φ140	-	φ60	φ110g6	φ128±0.3	12-φ6.5	-	M18x1.5	-	M18x1.5	-	-	10°	6-48H11x42H11x12D9 6-48b12x42b12x12b9	7
1QJM02-1L	130	80	38	3	30	62	20	-	-	-	-	-	φ180	φ100	φ70	φ130g7	φ165±0.3	12-φ9	φ58	-	M27x2	M16x1.5	-	-	10°	6-48H11x42H11x12D9 6-48b12x42b12x12b9	15
1/2QJM11-1L	162	99	38	3	34	62	20	-	-	-	-	-	φ180	φ105	φ70	φ130g7	φ165±0.3	12-φ9	φ58	-	M27x2	M16x1.5	-	-	10°	6-48H11x42H11x12D9 6-48b12x42b12x12b9	24
1/2QJM11-1L	132	82	33	3	32	87	18	-	-	-	-	-	φ240	φ150	φ110	φ160g7	φ220±0.3	12-φ11	φ69	-	M33x2	M16x1.5	M12x1.5	-	10°	70H11x62H11x16D9 70b12x62b12x16b9	28
1/2QJM1A1-1L	134	82	25	11	38	87	18	-	-	-	-	-	φ240	φ150	φ60h8	φ200g7	φ220±0.3	12-φ11	φ69	-	M33x2	M16x1.5	-	-	10°	8-42H11x36H11x7D9 8-42b12x36b12x7b9	28
1/2QJM12-1L	165	123	33	2	39	84	20	-	-	-	-	-	φ240	φ140	φ110	φ160g7	φ220±0.3	12-φ11	φ69	-	M33x2	M16x1.5	M12x1.5	-	10°	90H11x80H11x20D9 90b12x80b12x20b9	39
1/2QJM21-1L	168	99	29	14	38	100	20	110	-	48	58	150	φ304	φ150	φ110	φ160g7	φ283±0.3	12-φ11	φ69	M33x2	M33x2	M22x1.5	M12x1.5	-	10°	90H11x80H11x20D9 90b12x80b12x20b9	50
1/2LSQJM32-1L	215	138	43	10	55	115	22	95	-	52	71	165	φ320	φ165	φ120	φ170g7	φ299±0.3	12-φ13	φ79	M33x2	M33x2	M22x1.5	M12x1.5	-	10°	98H11x82H11x14D9 98b12x82b12x14b9	70
1/2LSQJM42-1L	209	160	16	12	35	124	22	151	73	105	104	204	φ350	φ190	φ140	φ200g7	φ320±0.3	12-φ13	φ100	φ40	M42x2	M22x1.5	M16x1.5	M16	10°	112H11x102H11x16D9 112b12x102b12x16b9	90
1QJM42-1AL	207	158	23	5	35	124	22	-	-	-	-	-	φ340	φ190	φ120	φ170g7	φ320±0.3	12-φ13	φ100	-	M42x2	M22x1.5	-	-	10°	98H11x82H11x14D9 98b12x82b12x14b9	90
1/2QJM31-1L	183	100	43	14	55	115	22	-	-	-	-	-	φ320	φ165	φ120	φ170g7	φ299±0.3	12-φ13	φ79	-	M33x2	M22x1.5	M12x1.5	-	10°	98H11x82H11x14D9 98b12x82b12x14b9	60
1/2QJM52-1L	238	175	30	6	45	135	24	144	73	101	105	220	φ420	φ220	φ160	φ315g7	φ360±0.3	6-φ22	φ110	φ40	M48x2	M22x1.5	M16x1.5	M16	6°	120H11x112H11x18D9 120b12x112b12x18b9	150
1/2QJM62-1L	264	182	29	11	45	165	24	144	73	101	123	255	φ485	φ255	φ170	395g7	φ435±0.3	6-φ22	φ128	φ48	M48x2	M22x1.5	M16x1.5	M16	6°	120H11x112H11x18D9 120b12x112b12x18b9	200
1/2LSQJM62-1L	264	182	29	11	45	165	24	144	73	101	123	255	φ485	φ255	φ170	395g7	φ435±0.3	6-φ22	φ128	φ48	M48x2	M22x1.5	M16x1.5	M16	6°	120H11x112H11x18D9 120b12x112b12x18b9	212

● 1QJM※※——※※L型液压马达安装联接要求：

1、各型液压马达均允许在任何方向上安装使用

2、因QJM液压马达转子呈浮动状态，故安装时花键连接必须留轴向间隙2~3毫米，以保证转子体可以在轴向自由窜动见图，并且液压马达花键孔与工作机构花键轴必须对中，并保证两者松动配合。对花键处和安装定位机座的技术要求见图。

3、液压马达在机器中安装并连接好管路后，应用手或扳手盘动液压马达，此时转子应灵活，不得有卡住或重轻现象。

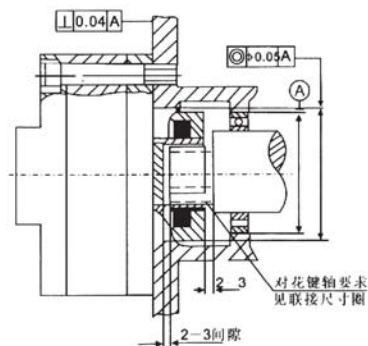
4、因配油轴与定子刚性连接，故该型马达出油管允许用钢管连接。

5、泄漏油管

①泄漏油管的最高位置或油箱的油液高度应高于马达壳体的最高水平位置，以防马达壳体内部的油液排空。

②泄漏油管路及接头的孔径一般应大于 $\Phi 12$ ，并必须直接与油箱接通，不允许与主回油路连通（若需过滤应单独用粗滤油器），使壳体内压力不超过0.2MPa，若有特殊要求应与我公司联系，协商解决。

6、严格保证联接油口的清洁度，不允许任何固体异物进入。



● $\frac{1}{2}$ QJM※※——※※Z (Z₃、Z_{e3})L型液压马达技术参数(理论参数未考虑效率)
 $\frac{1}{2}$ QJM※※——※※Z(Z₃、Z_{e3})L Type of Hydraulic Motor Technical Parameters

型号 Type	排量 Displacement (L/rev)	压力 Pressure(MPa)		转速范围 Rotational Speed range (r/min)	额定输出扭矩 Rated output Torque(N.m)	最大功率 Max.power
		额定 Rated	尖峰 Peak			
1QJM001-0.063ZL	0.064	10	16	8-600	95	1.4
1QJM001-0.08ZL	0.083	10	16	8-500	123	1.8
1QJM001-0.10ZL	0.104	10	16	8-400	154	2.3
1QJM002-0.2ZL	0.2	10	16	5-320	295	4.3
1QJM02-0.32ZL	0.324	10	16	5-320	483	7.1
1QJM02-0.4ZL	0.406	10	16	5-320	600	8.8
1QJM11-0.32ZL	0.339	10	16	5-500	468	5.9
1QJM11-0.4ZL	0.404	10	16	5-400	598	7.5
1QJM11-0.5ZL	0.496	10	16	5-320	734	9.2
1QJM11-0.63ZL	0.664	10	16	4-250	983	12.4
1QJM12-1.0ZL	1.0	10	16	4-200	1480	18.6
1QJM12-1.25ZL	1.33	10	16	4-160	1968	24.8
$\frac{1}{2}$ QJM21-0.4Z(Z _{e3})L	0.4,0.2	16	25	2-400	957,479	10.0
$\frac{1}{2}$ QJM21-0.5Z(Z _{e3})L	0.496,0.258	16	25	2-320	1175,588	12.3
$\frac{1}{2}$ QJM21-0.63Z(Z _{e3})L	0.664,0.332	16	25	2-250	1572,786	16.5
$\frac{1}{2}$ QJM21-0.8Z(Z _{e3})L	0.808,0.404	16	25	2-200	1913,957	20.0
$\frac{1}{2}$ QJM21-1.0Z(Z _{e3})L	1.01,0.505	10	16	2-160	1495,748	15.8
$\frac{1}{2}$ QJM21-1.25Z(Z _{e3})L	1.354,0.667	10	16	2-125	2004,1002	21
$\frac{1}{2}$ QJM21-1.6Z(Z _{e3})L	1.65,0.825	10	16	2-100	2442,1221	25.6
$\frac{1}{2}$ QJM32-0.63Z(Z ₃ 、Z _{e3})L	0.639,0.318	20	31.5	3-300	1880,940	19.8
$\frac{1}{2}$ QJM32-1.0Z(Z ₃ 、Z _{e3})L	1.06,0.503	20	31.5	2-250	3138,1519	33.0
$\frac{1}{2}$ QJM32-1.25Z(Z ₃ 、Z _{e3})L	1.295,0.648	20	31.5	2-200	3833,1917	40.2
$\frac{1}{2}$ QJM32-1.6Z(Z ₃ 、Z _{e3})L	1.649,0.825	20	31.5	2-200	4881,2441	51.2
$\frac{1}{2}$ QJM32-2.0Z(Z ₃ 、Z _{e3})L	2.03,1.015	16	25	2-200	4807,2404	50.5
$\frac{1}{2}$ QJM32-2.5Z(Z ₃ 、Z _{e3})L	2.71,1.355	10	16	1-160	4011,2006	42.0
$\frac{1}{2}$ QJM32-3.2Z(Z ₃ 、Z _{e3})L	3.3,1.65	10	16	1-125	4884,2442	51.2
$\frac{1}{2}$ QJM52-2.5ZL	2.67,1.335	20	31.5	1-200	7903,3952	66.2
$\frac{1}{2}$ QJM52-3.2ZL	3.24,1.62	20	31.5	1-200	9590,4795	80.5
$\frac{1}{2}$ QJM52-4.0ZL	4.0,2.0	16	25	1-200	9472,4736	80.0
$\frac{1}{2}$ QJM52-5.0ZL	5.23,2.165	10	16	1-160	7740,3870	65.0
$\frac{1}{2}$ QJM52-6.3ZL	6.36,3.18	10	16	1-125	9413,4707	79.0
$\frac{1}{2}$ QJM62-4.0ZL	4.0,2.0	20	31.5	0.5-150	11840,5920	74.5
$\frac{1}{2}$ QJM62-5.0ZL	5.18,2.59	20	31.5	0.5-125	15333,7667	96.5
$\frac{1}{2}$ QJM62-6.3ZL	6.27,3.135	16	25	0.5-125	14847,7424	93.5
$\frac{1}{2}$ QJM62-8.0ZL	7.85,3.925	10	16	0.5-100	11618,5809	73.0
$\frac{1}{2}$ QJM62-10ZL	10.15,5.075	10	16	0.5-80	15022,7511	95.0

● 1/2QJM系列——系列SL型自控式带制动器液压马达技术参数(理论参数未考虑高效率)

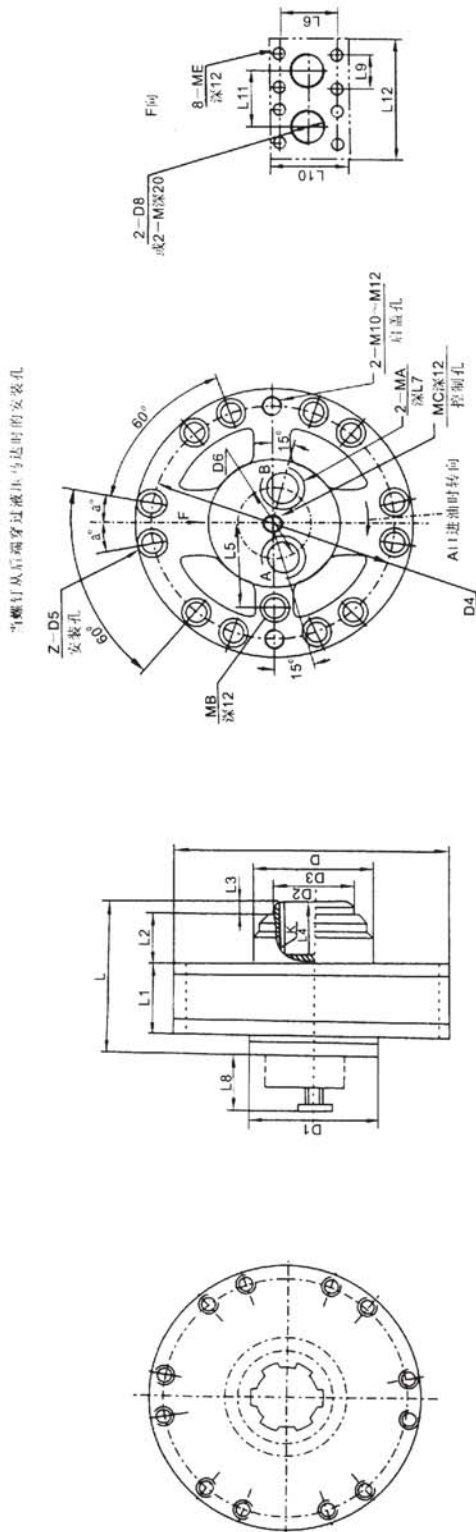
Technical data of 1/2QJM系列——系列SL series hydraulic motor with brake

型号 Type	排量 Displacement (L/rev)	压力 Pressure(MPa)		转速范围 Rotational Speed range (r/min)	额定输出 扭矩 Rated output torque (N.m)	制动器开启 压力 Open brake Pressure (Mpa)	制动器制动 扭矩 Brake torque (N.m)
		额定 Rated	尖峰 Peak				
1QJM11-0.32SL	0.317	10	16	5-400	468	4~6	
1QJM11-0.40SL	0.404	10	16	5-400	598		
1QJM11-0.50SL	0.496	10	16	5-320	734		
1QJM11-0.63SL	0.664	10	16	4-250	983	3~5	400~600
2QJM11-0.40SL	0.404,0.202	10	16	5-400	598,299		
2QJM11-0.50SL	0.496,0.248	10	16	5-320	734,347		
2QJM11-0.63SL	0.664,0.332	10	16	4-200	983,492		
1QJM21-0.32SL	0.317	16	25	2-500	751		
1QJM21-0.40SL	0.404	16	25	2-400	957		
1QJM21-0.50SL	0.496	16	25	2-320	1175	4~6	
1QJM21-0.63SL	0.664	16	25	2-250	1572		
1QJM21-0.8SL	0.808	16	25	2-200	1913		1000~1400
1QJM21-1.0SL	1.01	10	16	2-160	1495		
1QJM21-1.25SL	1.354	10	16	2-125	2004	3~5	
1QJM21-1.6SL	1.65	10	16	2-100	2442		
2QJM21-0.32SL	0.317,0.1585	16	25	2-500	751,376		
2QJM21-0.40SL	0.404,0.202	16	25	2-400	957,479		
2QJM21-0.50SL	0.496,0.248	16	25	2-320	1175,588	4~7	
2QJM21-0.63SL	0.664,0.332	16	25	2-250	1572,786		
2QJM21-0.83SL	0.808,0.404	16	25	2-200	1913,957		1000~1400
2QJM21-1.0SL	1.01,0.505	10	16	2-160	1495,748		
2QJM21-1.25SL	1.354,0.667	10	16	2-125	2004,1002	3~5	
2QJM21-1.6SL	1.65,0.825	10	16	2-100	2242,1221		

● $\frac{1}{2}$ QJM※※——※※SL型自控式带制动器液压马达技术参数(理论参数未考虑高效率)

 Technical data of $\frac{1}{2}$ QJM※※ ※※SL series hydraulic motor with brake

型号 Type	排量 Displacement (L/rev)	压力 Pressure(MPa)		转速范围 Rotational Speed range (r/min)	额定输出 扭矩 Rated output torque (N.m)	制动器开启 压力 Open brake Pressure (Mpa)	制动器制动 扭矩 Brake torque (N.m)
		额定 Rated	尖峰 Peak				
$\frac{1}{2}$ QJM32-0.63SL	0.635,0.318	20	31.5	3-300	1880	4~7	≥2500
$\frac{1}{2}$ QJM32-0.8SL	0.808,0.404	20	31.5	2-250	2368	4~7	
$\frac{1}{2}$ QJM32-1.0SL	1.06,0.53	20	31.5	2-250	3138	4~7	
$\frac{1}{2}$ QJM32-1.25SL	1.295,0.648	20	31.5	2-200	3833	3~5	
$\frac{1}{2}$ QJM32-1.6SL	1.649,0.825	20	31.5	2-200	4881	3~5	
$\frac{1}{2}$ QJM32-2.0SL	2.03,1.015	16	25	2-200	4807	3~5	
$\frac{1}{2}$ QJM32-2.5SL	2.71,1.355	10	16	1-160	4011	3~5	
$\frac{1}{2}$ QJM32-3.2SL	3.3,1.65	10	16	1-125	4884	3~5	
$\frac{1}{2}$ QJM32-4.0SL	4.0,2.00	10	16	1-100	5920	3~5	
$\frac{1}{2}$ QJM32-0.63SL	0.635,0.318	20	31.5	3-500	1880	4~7	
$\frac{1}{2}$ QJM32-0.8S ₂ L	0.808,0.404	20	31.5	3-400	2368	4~7	
$\frac{1}{2}$ QJM32-1.0S ₂ L	0.993,0.497	20	31.5	2-400	3138	4~7	
$\frac{1}{2}$ QJM32-1.25S ₂ L	1.295,0.648	20	31.5	2-320	3833	3~5	
$\frac{1}{2}$ QJM32-1.6S ₂ L	1.649,0.825	20	31.5	2-250	4881	3~5	
$\frac{1}{2}$ QJM32-2.0S ₂ L	2.03,1.015	16	25	2-200	4807	3~5	
$\frac{1}{2}$ QJM32-2.5S ₂ L	2.71,1.355	10	16	1-160	4011	3~5	
$\frac{1}{2}$ QJM32-3.2S ₂ L	3.3,1.65	10	16	1-125	4884	3~5	
$\frac{1}{2}$ QJM32-4.0S ₂ L	4.0,2.0	10	16	1-100	5920	3~5	
$\frac{1}{2}$ QJM42-2.0SL	2.11,1.055	20	31.5	1-250	6246	4~7	
$\frac{1}{2}$ QJM42-2.5SL	2.56,1.28	20	31.5	1-250	7578	4~7	
$\frac{1}{2}$ QJM42-3.2SL	3.28,1.64	10	16	1-200	4850	4~6	
$\frac{1}{2}$ QJM42-4.0SL	4.0,2.0	10	16	1-160	5920	3~5	
$\frac{1}{2}$ QJM42-4.5SL	4.56,2.28	10	16	1-125	6808	3~5	
$\frac{1}{2}$ QJM52-2.5SL	2.67,1.335	20	31.5	1-200	7903	4~7	
$\frac{1}{2}$ QJM52-3.2SL	3.24,1.62	20	31.5	1-200	9590	4~7	
$\frac{1}{2}$ QJM52-4.0SL	4.0,2.0	16	25	1-200	9472	4~6	
$\frac{1}{2}$ QJM52-5.0SL	5.23,2.615	16	25	1-160	7740	3~5	
$\frac{1}{2}$ QJM52-6.3SL	6.36,3.18	16	25	1-125	9413	3~5	



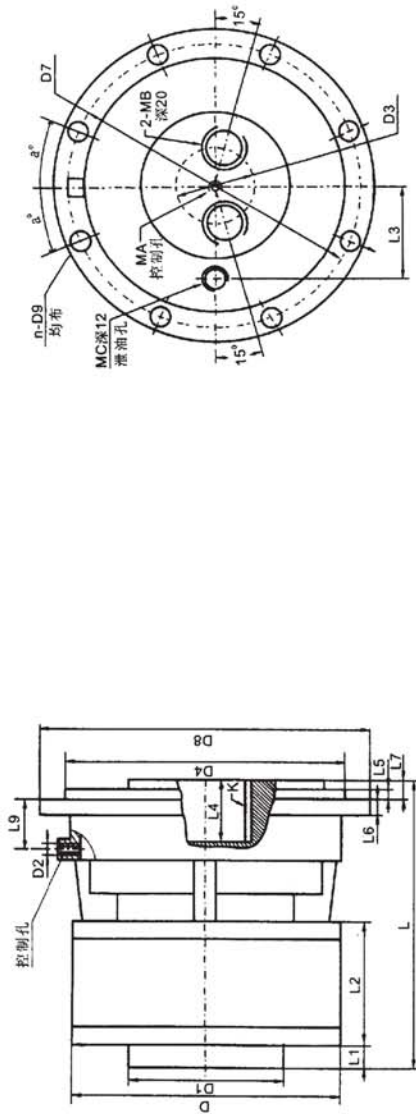
● 外形联接尺寸 External Coupling Dimension

型号	L	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11	L12	D	D1	D2	D3	D4	Z-D5	D6	D7	D8	MA	MB	MC	Z-MD	ME	a°	K 对花键轴要求	重量 (kg)
$\frac{1}{2}$ QJM11-*S,L	146.5	97	20	11.5	28	87	-	20	-	-	-	-	-	φ 240	φ 150	φ 100	φ 160g7	φ 220 ± 0.3	12-φ 11	φ 69	-	-	M32x2	M16x1.5	M12x1.5	-	-	10°	70H11x62H11x16D9 6-70b12x62b12x16d9	35
$\frac{1}{2}$ QJM21-*S,L	168	117	17	7	31	100	-	20	-	-	-	-	-	φ 304	φ 150	φ 110	φ 160g7	φ 220 ± 0.3	12-φ 11	φ 69	-	-	M33x2	M22x1.5	M12x1.5	-	-	10°	90H11x80H11x20D9 6-90b12x80b12x20d9	53
$\frac{1}{2}$ QJM21-*S,L	164	127	12	13	32	100	-	20	-	-	-	-	-	φ 304	φ 150	φ 110	φ 160g7	φ 263 ± 0.3	12-φ 11	φ 69	-	-	M33x2	M22x1.5	M12x1.5	-	-	10°	90H11x80H11x20D9 6-90b12x80b12x20d9	55
$\frac{1}{2}$ QJM32-*S,L	231	140	56	3	55	115	-	20	-	-	-	-	-	φ 320	φ 165	φ 170	φ 280g7	φ 298 ± 0.3	12-φ 13	φ 79	-	-	M33x2	M22x1.5	M12x1.5	-	-	10°	98H11x92H11x14D9 98b12x92b12x14d9	86
$\frac{1}{2}$ QJM32-*S,L	252	167	67	3	55	124	-	22	-	-	-	-	-	φ 350	φ 190	φ 140h8	φ 200g7	φ 320 ± 0.3	12-φ 13	φ 100	-	-	M42x2	M22x1.5	M12x1.5	6-M12	-	10°	112H11x102H11x16D9 112b12x102b12x16d9	108
$\frac{1}{2}$ QJM42-*S,L	229	187	16	3	55	135	-	24	-	-	-	-	-	φ 420	φ 220	φ 160	φ 315g7	φ 360 ± 0.3	10-φ 22	φ 110	-	-	M48x2	M22x1.5	M12x1.5	-	-	6°	120H11x112H11x18D9 120b12x112b12x18d9	167
$\frac{1}{2}$ QJM11-*S,L	156	103	25	10	28	87	-	20	-	-	-	-	-	φ 240	φ 150	φ 100	φ 160g7	φ 220 ± 0.3	12-φ 11	φ 69	-	-	M33x2	M16x1.5	M12x1.5	-	-	10°	70H11x62H11x16D9 6-70b12x62b12x16d9	35

● $\frac{1}{2}$ QJM※※——※※SeI型外控式带制动器液压马达技术参数 (理论参数未考虑效率)

Technical data of out control $\frac{1}{2}$ QJMS※※——※※SeL series hydraulic motor with brake

型号 Type	排量 Displacement (L/rev)	压力 Pressure(MPa)		转速范围 Rotational Speed range (r/min)	额定输出 扭矩 Rated output torque (N.m)	制动器开启 压力 Open brake Pressure (Mpa)	制动器制动 扭矩 Brake torque (N.m)
		额定 Rated	尖峰 Peak				
1 QJM12-0.8SeL	0.808	10	16	4-250	1076	1.3≤P≤6.3	≥1800
1 QJM12-1.0SeL	0.993	10	16	4-200	1332		
1 QJM12-1.25SeL	1.328	10	16	4-160	1771		
$\frac{1}{2}$ QJM21-0.32SeL	0.317	16	25	2-500	751,376	2.5≤P≤6.3	≥2500
$\frac{1}{2}$ QJM21-0.40SeL	0.404,0.202	16	25	2-400	957,479		
$\frac{1}{2}$ QJM21-0.50SeL	0.496,0.248	16	25	2-320	1175,588		
$\frac{1}{2}$ QJM21-0.63SeL	0.664,0.332	16	25	2-250	1572,786		
$\frac{1}{2}$ QJM21-0.80SeL	0.808,0.404	16	25	2-200	1913,957		
$\frac{1}{2}$ QJM21-1.0SeL	1.01,0.505	10	16	2-160	1495,748		
$\frac{1}{2}$ QJM21-1.25SeL	1.354,0.677	10	16	2-125	2004,1002		
$\frac{1}{2}$ QJM21-1.6SeL	1.65,0.825	10	16	2-100	2442,1221		
$\frac{1}{2}$ QJM32-0.63SeL	0.635,0.318	20	31.5	3-300	1880,940		
$\frac{1}{2}$ QJM32-0.8SeL	0.808,0.404	20	31.5	3-250	2368,1184		
$\frac{1}{2}$ QJM32-1.0SeL	0.993,0.497	20	31.5	2-250	3138,1569	2.1≤P≤6.3	≥9000
$\frac{1}{2}$ QJM32-1.25SeL	1.328,0.664	20	31.5	2-200	3833,1942		
$\frac{1}{2}$ QJM32-1.6SeL	1.616,0.808	20	31.5	2-200	4881,2441		
$\frac{1}{2}$ QJM32-2.0SeL	2.03,1.015	16	25	2-200	4807,2404		
$\frac{1}{2}$ QJM32-2.5SeL	2.71,1.355	10	16	1-160	4011,2006		
$\frac{1}{2}$ QJM32-3.2SeL	3.3,1.65	10	16	1-125	4884,2442		
$\frac{1}{2}$ QJM32-4.0SeL	4.0,2.0	10	16	1-100	5920,2960		
$\frac{1}{2}$ QJM42-2.0SeL	2.11,1.055	20	31.5	1-250	6246,3123		
$\frac{1}{2}$ QJM42-2.5SeL	2.56,1.28	20	31.5	1-250	7578,3789	2.2≤P≤6.3	≥10000
$\frac{1}{2}$ QJM42-3.2SeL	3.3,1.65	10	16	1-200	4884,2442		
$\frac{1}{2}$ QJM42-4.0SeL	4.0,2.0	10	16	1-160	5920,2960		
$\frac{1}{2}$ QJM42-4.5SeL	4.56,2.28	10	16	1-125	6808,3404	2.2≤P≤6.3	≥10000
$\frac{1}{2}$ QJM52-2.5SeL	2.67,1.355	20	31.5	1-200	7903,3952		
$\frac{1}{2}$ QJM52-3.2SeL	3.24,1.62	20	31.5	1-200	9590,4795		
$\frac{1}{2}$ QJM52-4.0SeL	4.0,2.0	16	25	1-200	9472,4736		
$\frac{1}{2}$ QJM52-5.0SeL	5.23,2.615	10	16	1-160	7740,3870	2.2≤P≤6.3	≥10000
$\frac{1}{2}$ QJM52-6.3SeL	6.36,3.18	10	16	1-125	9413,4707		



● 外形联接尺寸 External Coupling Dimension

型号	L	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	D	D1	D2	D3	D4	D6	D7	D8	n-D9	MA	MB	MC	平键	a°	K 对花键轴要求	重量 (kg)
1QJM12- [*] SeL	288	17	121	87	60	12	13	25	-	33	-	φ240	φ150	M16x1.5	φ69	φ290g7	-	φ307±0.2	φ327	8-φ11	-	2-M33x2	M16x1.5	-	22.5°	6— 90H11x80H11x20D9 90b12x80b12x20G9	50
1QJM21- [*] SeL	245	27	102	100	60	18.5	16	24	-	36	-	φ304	φ150	M18x1.5	φ69	φ310g7	-	φ330±0.2	φ360	8-φ13	M12x1.5	2-M33x2	M22x1.5	-	22.5°	6— 90H11x80H11x20D9 90b12x80b12x20G9	95
1QJM32- [*] SeL	271	24	140	115	55	13	16	19	-	35	-	φ320	φ165	M16x1.5	φ79	φ335g7	-	φ354±0.2	φ380	8-φ13	M12x1.5	2-M33x2	M22x1.5	-	15°	10— 98H11x92H11x14D9 98b12x92b12x14d9	120
1QJM42- [*] SeL	278	21	160	124	35	15	18	22	-	45	-	φ350	φ190	M16x1.5	φ100	φ395f6	-	φ418±0.2	φ445	12-φ17	M16x1.5	2-M42x2	M22x1.5	-	15°	10— 112H11x102H11x16D9 112b12x102b12x16d9	150
1QJM52- [*] SeL	318	27	175	135	45	17	18	22	-	45	-	φ420	φ220	M16x1.5	φ110	φ395f6	-	φ418±0.2	φ445	12-φ17	M16x1.5	2-M48x2	M22x1.5	-	15°	10— 120H11x112H11x18D9 120b12x112b12x18d9	200

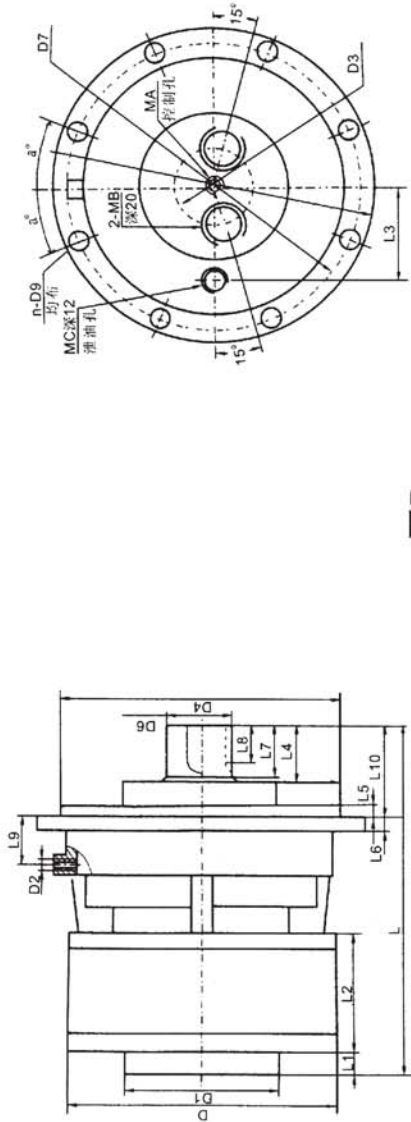
● $\frac{1}{2}$ QJM※※——※※SeZ(SeZH) L型外控式带制动器液压马达技术参数(理论参数未考虑效率)

 Technical data of $\frac{1}{2}$ QJM※※——※※SeZ(SeZH)L hydraulic motor with bearing and outside brake

型号 Type	排量 Displacement (L/rev)	压力 Pressure(MPa)		转速范围 Rotational Speed range (r/min)	额定输出 扭矩 Rated output torque (N.m)	制动器开启 压力 Open brake Pressure (Mpa)	制动器制动 扭矩 Brake torque (N.m)
		额定 Rated	尖峰 Peak				
1 QJM12-0.8SeZL	0.808	10	16	4-200	1076	1.3≤P≤6.3	≥1800
1 QJM12-1.0SeZL	0.993	10	16	4-200	1332		
1 QJM12-1.25SeZL	1.328	10	16	4-160	1771		
$\frac{1}{2}$ QJM21-0.32SeZL	0.317,0.1585	16	25	2-500	751,376	2.5≤P≤6.3	≥2500
$\frac{1}{2}$ QJM21-0.4SeZL	0.404,0.202	16	25	2-400	957,478		
$\frac{1}{2}$ QJM21-0.5SeZL	0.496,0.248	16	25	2-320	1175,588		
$\frac{1}{2}$ QJM21-0.63SeZL	0.664,0.332	16	25	2-250	1572,786		
$\frac{1}{2}$ QJM21-0.8SeZL	0.808,0.404	16	25	2-200	1913,956		
$\frac{1}{2}$ QJM21-1.0SeZL	1.01,0.505	10	16	2-160	1495,748		
$\frac{1}{2}$ QJM21-1.25SeZL	1.354,0.677	10	16	2-125	2004,1002		
$\frac{1}{2}$ QJM21-1.6SeZL	1.65,0.825	10	16	2-100	2442,1221		
$\frac{1}{2}$ QJM32-0.63SeZL	0.635,0.318	20	31.5	3-500	1880,940		
$\frac{1}{2}$ QJM32-0.8SeZL	0.808,0.404	20	31.5	3-400	2368,1184		
$\frac{1}{2}$ QJM32-1.0SeZL	0.993,0.497	20	31.5	2-400	3138,1519		
$\frac{1}{2}$ QJM32-1.25SeZL	1.328,0.664	20	31.5	2-320	3833,1917		
$\frac{1}{2}$ QJM32-1.6SeZL	1.616,0.808	20	31.5	2-250	4881,2441		
$\frac{1}{2}$ QJM32-2.0SeZL	2.03,1.015	16	25	2-200	4807,2404	≥6000	
$\frac{1}{2}$ QJM32-2.5SeZL	2.71,1.335	10	16	4-160	4011,2006		
$\frac{1}{2}$ QJM32-3.2SeZL	3.3,1.65	10	16	1-125	4884,2442		
$\frac{1}{2}$ QJM32-4.0SeZL	4.0,2.0	10	16	1-100	5920,2960	2.1≤P≤6.3	≥9000
$\frac{1}{2}$ QJM42-2.0SeZL	2.11,1.055	20	31.5	1-320	6246,3123		
$\frac{1}{2}$ QJM42-2.5SeZL	2.56,1.28	20	31.5	1-250	7578,3789		
$\frac{1}{2}$ QJM42-3.2SeZL	3.3,1.65	10	16	1-200	4884,2442		
$\frac{1}{2}$ QJM42-4.0SeZL	4.0,2.0	10	16	1-160	5920,2960		
$\frac{1}{2}$ QJM42-4.5SeZL	4.56,2.28	10	16	1-125	6808,3404		
$\frac{1}{2}$ QJM52-2.5SeZL	2.67,1.335	20	31.5	1-320	7903,3952		
$\frac{1}{2}$ QJM52-3.2SeZL	3.24,1.62	20	31.5	1-250	9590,4795		
$\frac{1}{2}$ QJM52-4.0SeZL	4.0,2.0	16	25	1-200	9472,4736		
$\frac{1}{2}$ QJM52-5.0SeZL	5.23,2.615	10	16	1-160	7740,3870		
$\frac{1}{2}$ QJM52-6.3SeZL	6.36,3.18	10	16	1-125	9413,4707		

 注： $\frac{1}{2}$ QJM※※——※※SeZH L的技术参数与上表中相应排量的液压马达技术参数相同。

 Note: Technical data of $\frac{1}{2}$ QJM※※——※※SeZH L hydraulic motor have the same data as $\frac{1}{2}$ QJM※※——※※SeZ L hydraulic motors.



图B

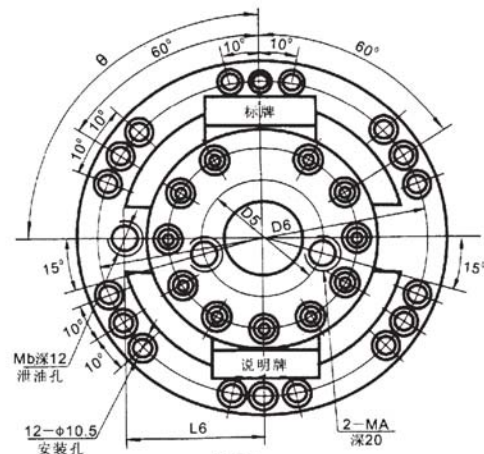
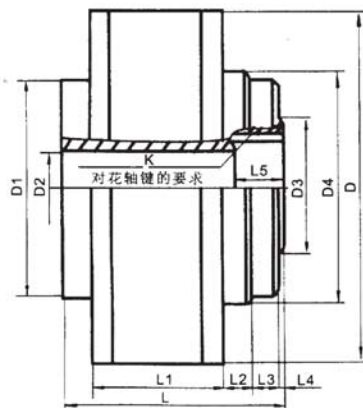
● 图B外型联接尺寸 External Coupling Dimension

型号TYPE	L	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	D	D1	D2	D3	D4	D6	D7	D8	n-D9	MA	MB	MC	α°	平键	花键	重量(kg)
1QJM12-**-SeZL	350	17	121	87	66	10	13	62	-	24	96	φ240	φ150	M16x1.5	φ69	φ250g7	φ60h7	φ265+0.2	φ285	8-φ11	-	2-M33x2	M16x1.5	22.5°	18x60	-	60
1QJM12-**-SeZHL	370	17	121	87	62	12	13	58	39	24	100	φ240	φ150	M16x1.5	φ69	φ290g7	-	φ307+0.5	φ327	8-φ11	-	2-M33x2	M16x1.5	22.5°	-	6-90b12x90b12x20d9	60
1QJM21-**-SeZL	410	27	102	100	69.5	14	16	65	-	36	113	φ304	φ150	M18x1.5	φ69	φ310g7	φ70h7	φ330+0.2	φ360	8-φ3	M12x1.5	2-M33x2	M22x1.5	22.5°	A20x16	-	80
1/2QJM32-**-SeZL	416	24	140	115	81	13	16	78	-	35	136	φ320	φ165	M16x1.5	φ79	φ335g7	φ70h7	φ354+0.2	φ380	12-φ13	M12x1.5	2-M33x2	M22x1.5	15°	C20x70	-	95
1/2QJM32-**-SeZHL	410	24	140	115	75	13	16	72	55	35	114	φ320	φ165	M16x1.5	φ79	φ335g7	-	φ354+0.2	φ380	12-φ13	M12x1.5	2-M33x2	M22x1.5	15°	-	10-98b12x92b12x14d9	95
1/2QJM42-**-SeZL	466	21	160	124	75	12	18	71	50	44	135	φ350	φ190	M16x1.5	φ100	φ365g7	-	φ398+0.2	φ430	12-φ17	M16x1.5	2-M42x2	M22x1.5	15°	-	10-112b12x102b12x16d9	120
1/2QJM42-**-SeZHL	456	21	160	124	75	15	18	71	50	37	120	φ350	φ190	M16x1.5	φ100	φ365g7	-	φ398+0.2	φ430	12-φ17	M16x1.5	2-M42x2	M22x1.5	15°	-	10-112b12x102b12x16d9	120
1/2QJM52-**-SeZL	532	27	175	135	141	17	18	136	-	45	184	φ420	φ220	M16x56	φ110	φ395f6	φ78h7	φ418+0.2	φ445	12-φ17	M16x1.5	2-M48x2	M22x1.5	15°	C22x132	-	150
1/2QJM52-**-SeZHL	471	27	175	135	71	17	18	-	45	45	114	φ420	φ220	M16x56	φ110	φ395f6	-	φ418+0.2	φ445	12-φ17	M16x1.5	2-M48x2	M22x1.5	15°	-	12-112b12x112b12x20d9	150

● $\frac{1}{2}$ QJM※※——※※T※※L型通孔液压马达技术参数(理论参数未考虑效率)

Technical data of QJM hydraulic with through hole motor

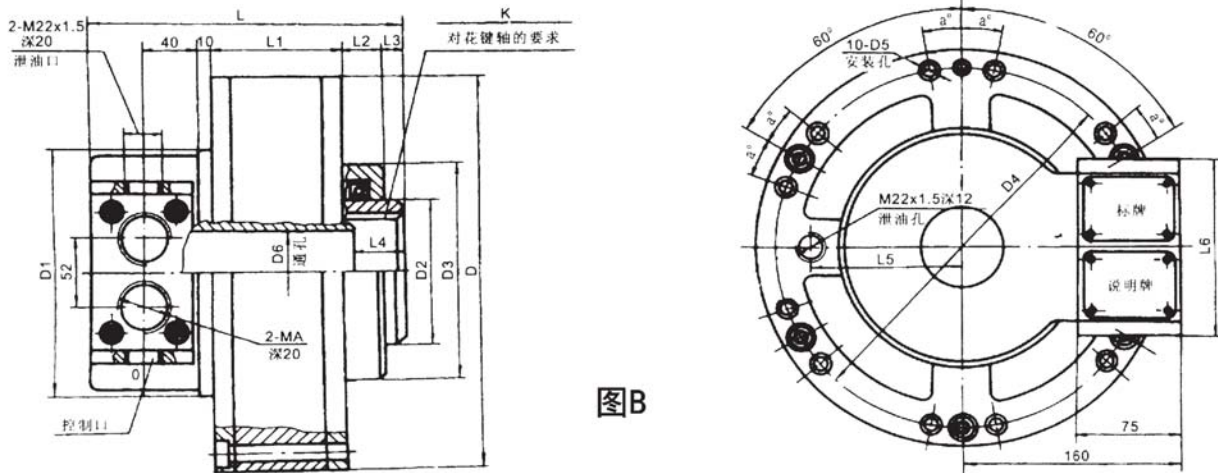
型号 Type	排量 Displacement (L/rev)	压力 Pressure(MPa)		转速范围 Rotational Speed Range(r/min)	额定输出扭矩 Rated output Torque (N.m)	通孔直径 Through hole dia mm
		额定 Rated	尖峰 Peak			
1QJM01-0.1T40L	0.1	10	16	8-400	148	40
1QJM01-0.16T40L	0.163	10	16	8-350	241	
1QJM01-0.2T40L	0.203	10	16	8-320	300	
1QJM11-0.32T50L	0.317	10	16	5-400	468	
1QJM11-0.4T50L	0.404	10	16	5-400	598	50
1QJM11-0.5T50L	0.5	10	16	5-320	734	
$\frac{1}{2}$ QJM21-0.32T65L	0.317,0.159	16	25	2-630	751,376	65
$\frac{1}{2}$ QJM21-0.5T65L	0.496,0.248	16	25	2-400	1175,588	
$\frac{1}{2}$ QJM21-0.63T65L	0.664,0.332	16	25	2-320	1572,786	
$\frac{1}{2}$ QJM21-1.0T65L	1.01,0.505	10	16	2-250	1495,748	
$\frac{1}{2}$ QJM21-1.25T65L	1.354,0.677	10	16	2-200	2004,1002	
$\frac{1}{2}$ QJM32-0.63T75L	0.635,0.318	20	25	1-300	1880,940	75
$\frac{1}{2}$ QJM32-1.0T75L	1.06,0.53	20	25	1-250	3138,519	
$\frac{1}{2}$ QJM32-1.25T75L	1.30,0.65	20	25	2-200	3833,1917	
$\frac{1}{2}$ QJM32-2.0T75L	2.03,1.02	16	25	2-200	4807,2404	
$\frac{1}{2}$ QJM32-2.5T75L	2.71,1.36	10	16	1-160	4011,2006	
$\frac{1}{2}$ QJM42-2.5T80L	2.56,1.24	20	31.5	1-125	7578,3789	80
$\frac{1}{2}$ QJM52-3.2T80L	3.24,1.62	20	31.5	1-200	9590,4795	
$\frac{1}{2}$ QJM52-4.0T80L	4.0,2.0	16	25	1-200	9472,4736	
$\frac{1}{2}$ QJM52-5.0T80L	5.23,6.15	10	16	1-160	7740,3870	
$\frac{1}{2}$ QJM52-6.3T80L	6.36,3.18	10	16	1-100	9413,4707	
$\frac{1}{2}$ QJM62-4.0T125L	4.0,2.0	20	31.5	0.5-150	11840,5920	125
$\frac{1}{2}$ QJM62-5.0T125L	5.18,2.59	20	31.5	0.5-125	15333,7667	
$\frac{1}{2}$ QJM62-6.3T125L	6.27,3.135	16	25	0.5-125	14847,7424	
$\frac{1}{2}$ QJM62-8.0T125L	7.85,3.925	10	16	0.5-100	11618,5809	
$\frac{1}{2}$ QJM62-10T125L	10.15,5.075	10	16	0.5-80	15022,7501	



图A

● 图A外型联接尺寸 External Connection Dimension

型号 Type	L	L1	L2	L3	L4	L5	L6	θ	D	D1	D2	D3	D4	D5	D6	MA	MB	k 对花键轴要求	重量 (Kg)
1QJM01-※T40L	130	79	15	23	3	30	53	180°	φ180	φ130	φ40	φ110	φ130g6	φ70	φ165	M22x1.5	M12x1.5	6-48H11x42H11x12D9 48b12x42b12x12d9	15
1QJM11-※T50L	139	87	16	17	3	28	87	90°	φ240	φ150	φ50	φ100	φ160g6	φ80	φ220	M22x1.5	M16x1.5	6-70H11x62H11x16D9 70b12x62b12x12d9	26

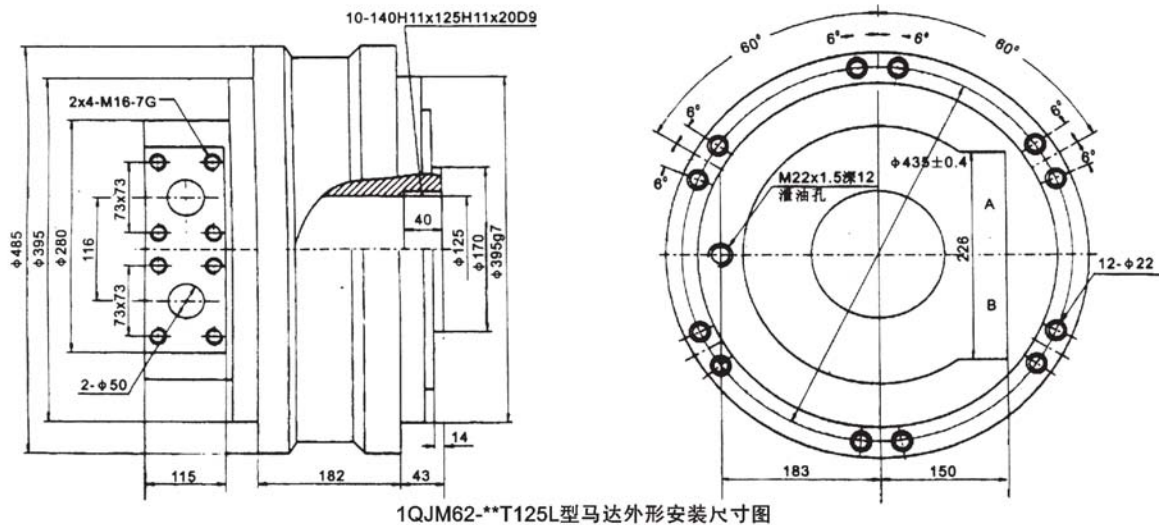


图B

● 图B外形联接尺寸 External Connection Dimension

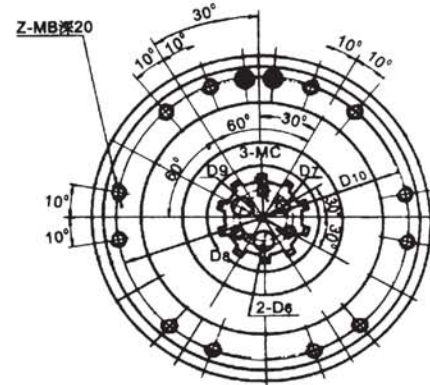
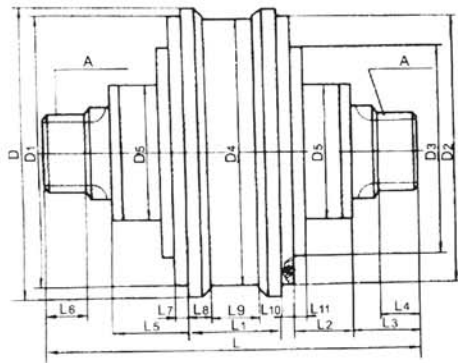
型号Type	L	L1	L2	L3	L4	L5	L6	D	D1	D2	D3	D4	D5	D6	MA	a°	K		重量(kg)
																	对花键轴要求		
2QJM21-**T50L	229	99	29	14	36	100	156	φ300	φ148	φ110	φ160g6	φ283	φ11	φ50	M27x2	10°	6-	98H11x92H11x14D9 98b12x92b12x14d9	60
2QJM21-**T65L	230	98	29	14	37	110	146	φ304	φ186	φ110	φ160g6	φ283	φ11	φ65	M33x2	10°	6-	98H11x92H11x14D9 98b12x92b12x14d9	64
2QJM32-**T75L	273	138	43	10	41	115	146	φ320	φ186	φ120	φ170g6	φ299	φ13	φ75	M33x2	10°	6-	98H11x92H11x14D9 98b12x92b12x14d9	88
2QJM42-2.5T80L	292	160	16	30	40	124	146	φ350	φ190	φ140	φ200h8	φ320	φ13	φ80	M33x2	10°	6-	112H11x102H11x16D9 112b12x102b12x16b9	120
2QJM52-2.5T80L	367	175	30	24	45	135	190	φ420	φ220	φ160	φ315g7	φ360	6-122	φ80	M48x2	6°	6-	120H11x112H11x16D9 120b12x112b12x18d9	162

注：2QJM52-2.5T80L马达控制口和泄油口与上图所示对调



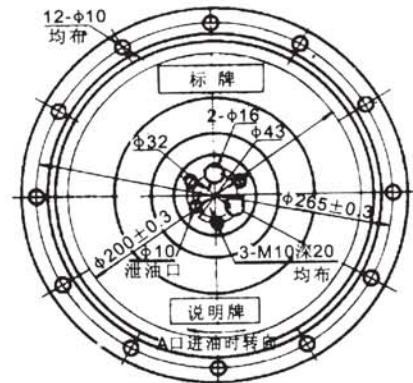
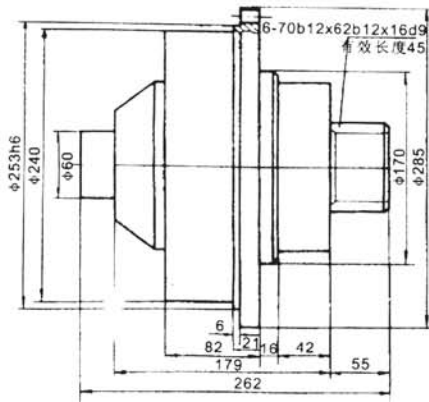
1QJM62-**T125L型马达外形安装尺寸图

型号(Type)	型号(Type)	排量 Displacement (L/rev)	压力 Pressure(MPa)		转速范围 Rotational Speed range (r/min)	额定输出 扭矩 Rated output torque (N.m)
			额定(Rated)	尖峰(Peak)		
1QKM11-0.32L	1QKM11-0.32D	0.317	10	16	5-400	468
1QKM11-0.4L	1QKM11-0.4D	0.404	10	16	5-400	598
1QKM11-0.5L	1QKM11-0.5D	0.496	10	16	5-320	734
1QKM11-0.63L	1QKM11-0.63D	0.664	10	16	4-250	983
1QKM32-2.5L	1QKM32-2.5D	2.71	10	16	1-160	4011
1QKM32-3.2L	1QKM32-3.2D	3.3	10	16	1-125	4884
1QKM32-4.0L	1QKM32-4.0D	4.0	10	16	1-100	5920
1QKM42-3.2L	1QKM42-3.2D	3.24	10	16	1-200	4850
1QKM42-4.0L	1QKM42-4.0D	4.0	10	16	1-160	5920
1QKM42-4.5L	1QKM42-4.5D	4.6	10	16	1-125	5808
1QKM52-5.0L	1QKM52-5.0D	5.23	10	16	1-160	7740
1QKM52-6.3L	1QKM52-6.3D	6.36	10	16	1-125	9413
1QKM62-4.0L	-	4.0	20	31.5	0.5-150	11840
1QKM62-5.0L	-	5.18	20	31.5	0.5-125	15333
1QKM62-6.3L	-	6.27	16	25	0.5-125	14847
1QKM62-8.0L	-	7.85	10	16	0.5-100	11618
1QKM62-10L	-	10.15	10	16	0.5-80	15022



QKM外型联接尺寸

型号(Type)	L	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11	D	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	Z-MB	MC	A	重量
1QKM32-***L	510	146	83	99	58	83	58	18	-	18	-	-	φ320	φ280	φ280	-	-	φ178	φ25	φ16	φ60±0.3	φ43±0.2	φ299±0.3	12-M12	M16	6-90b12x80b12x20d9	105
1QKM42-***L	550	156	65	132	60	65	60	-	37	82	-	24	φ376f7	-	-	φ214	φ340	φ182	φ28	φ18	φ68±0.3	φ50±0.4	φ346±0.3	9-M16	M16	10-98b12x92b12x14d9	129
1QKM52-***L	548	134	111	96	60	111	60	20	27	80	20	20	φ430	φ400e8	φ400e8	φ315	φ398	φ205	φ28	φ16	φ68±0.3	φ50±0.4	φ370±0.3	12-M16	M16	10-98b12x92b12x14d9	194
1QKM62-***L	665	175	120	125	100	120	100	20	48	79	20	33	φ485	φ395g7	φ395g7	φ320	φ484	φ262	φ28	φ20	φ68±0.3	φ50±0.4	φ435±0.3	12-M20	M16	10-112b12x102b12x16d9	250



1QKM11-***L

机电一体化液压系统

1、概述

意宁液压股份有限公司可以为用户提供包括全面的液压系统、电气自动化控制系统、集成式液压阀组、液压试验台的设计制造及现场调试，公司拥有一支在液压领域设计经验丰富的高级专业队伍，包括液压、机械、电子电气、CAD 三维设计等工程技术人员；拥有先进的管理模式、各种先进的加工设备和先进的检测设备；拥有一支高素质的专业生产队伍。公司以高科技的设计、专业化的制造、市场化的管理为国内外用户提供先进的技术、精良的产品和优质服务，产品广泛用于船舶、工程机械、建筑机械、冶金、轻工机械、环保领域等。

2、液压系统主要业绩

序号	项目名称	用户单位	应用领域
1	120m ³ /h 斗轮式挖泥船	山东济宁航运管理局	船舶
2	120m ³ /h 绞吸式挖泥船	江西省造船厂	
		镇江航道管理局	
		山东好当家集团	
3	350m ³ /h 斗轮式挖泥船	湖南省益阳船舶厂	
		南通天电实业公司	
		云南以礼河发电厂	
4	350m ³ /h 绞吸式挖泥船	江西航务管理局工程管理处	
		南昌水利疏浚工程有限公司	
		中国长航青山船厂	
5	400kW 分体式挖泥船	安徽蚌埠神州机器厂	
6	400m ³ /h 绞吸式挖泥船	浙江扬帆船舶集团有限公司	
7	1000m ³ /h 链斗式挖沙船	南昌水利疏浚工程有限公司	
8	JX750 绞吸式分体挖泥船 (出口乌兹别克斯坦)	安徽疏浚股份有限公司	
9	荷兰进口 1800m ³ 耙吸式挖泥船 (液压系统及 PLC 电控系统改造)	上海航道局第二工程处	
10	“三航砂桩 1” 砂桩船	第三航务工程局宁波分公司	
11	长江防汛抢险用 50m 铺排船	南京长江河道管理局	
12	渔政船、海监船、消防船 小艇收放装置用液压系统	中船重工第 701 所	

13	120m ³ /h 多功能清淤机	江苏省水利机械总厂	
14	海底输油管道挖沟机	天津塘沽海洋船舶工程服务有限公司	
15	海底电缆铺设门架液压系统	胜利油田技术发展中心	
16	50kN、150kN 桅杆吊 (出口越南)	北海运输公司	
17	600DWT 起货船甲板机械 (出口密克罗尼亚联邦)	武汉南华高速船舶工程股份有限公司	
18	水文测量船	广西桂江造船厂	
19	救生艇吊放系统	镇江船舶辅机厂	
20	SJA935 双辊挤浆机液压系统	安丘汶瑞机械制造有限公司	轻工机械
21	开舱机液压系统	浙江东方船厂	船舶
		乐清市中船重工船舶有限公司	
		舟山丽岛船用设备有限公司	
		热力士船舶钢结构有限公司	
22	10T、15T、25T、30T、35T 客令吊液压系统	越南	
23	16T、18T、25T、35T 液压绞车配套系统	天津精研工程机械传动有限公司	
24	JB160.16A 打桩机液压系统	温州振中工程机械股份有限公司	建筑
25	JBM150-Z 打桩机液压系统	温州中港工程机械有限公司	
26	打桩机液压系统	泰国	
27	吊管机液压系统	华北石油工程建设有限公司	工程机械
28	7T、15T、20T、25T、30T 液压绞车配套系统	英国、越南	
29	刀轮式破碎机液压系统	山东潍坊扬帆机械有限公司	环保
30	100kN 液压马达综合型式试验台	宁波大港意宁液压有限公司	试验台
31	110KW 液压泵综合型式试验台		
32	螺纹插装阀综合型式试验台		

Hydraulic system with electromechanical integration

1、Brief introduction

INI HYDRAULIC CO;LTD could provide products including hydraulic system, electromatic control system, integrated hydraulic valve blocks, hydraulic test-bed manufacturing and local debugging for customers. The company employed many senior professional talents with rich experience in hydraulic,machinery,

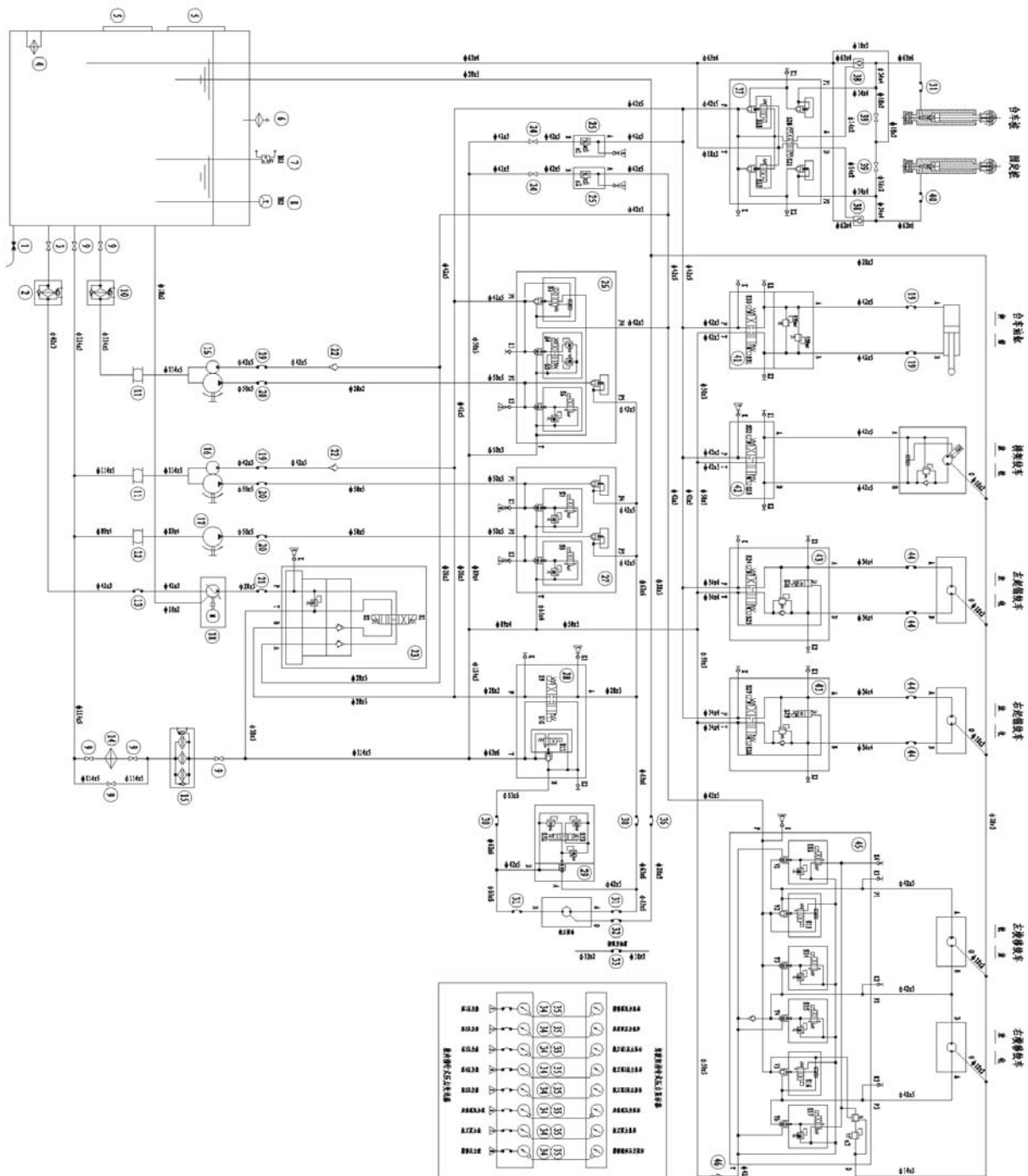
electrical and electronic.The company has advanced management mode,various kinds of advanced manufacturing mechines and inspection equipments.It supplied good products and satisfied service to the customer at home and abroad by hi-tech design, professional manufacturing and excellent management directed to market. These patent products are widely used in ships,engineering machinery, construction machinery metallurgy, light industry machinery and environment.

2、Main achievements

No	Project	Customer	Application
1	120 M ³ /h bucket wheel dredger	SHANDONG JINING navigational business bureau of administration	Ship
2	120 M ³ /h suction dredger	JIANGXI shipyard factory	
		ZHENJIANG navigation bureau	
		SHANDONG HAODAGNJA group	
3	350 M ³ /h bucket wheel dredger	HUNAN YIYANG shipyard factory	
		NANTONG TIANDAING company	
		YUNNAN YILI river electric company	
4	350 M ³ /h suction dredger	JIANGXI navigational bureau	
		NANCHANG waterway control company	
5	400kW divided dredger	ANHUI SHENZHOU machinery factory	
6	400M ³ /h suction dredger	ZHENJIANG YANGFAN ship group	
7	1000M ³ /h chain type dredger	NANCHANG waterway control company	
8	JX750 suction dredger	ANHUI waterway control company	
9	1800 M ³ /h suction rake dredger imported from Holland (updated PLC hydraulic system)	The second engineering department of SHANGHAI waterway bureau	
10	“ Third shipping piling 1” sand piling barge	NINGBO subsidiary of the third shipping administration bureau	
11	50m soft pipe laying ship for Yangtze River	NANJING Yangtze River waterway control bureau	
12	Hydraulic system for fishery cruiser, ocean supervision boat, fire boat and boat releasing equipment	The 701 research institute of China ship heavy industry company	

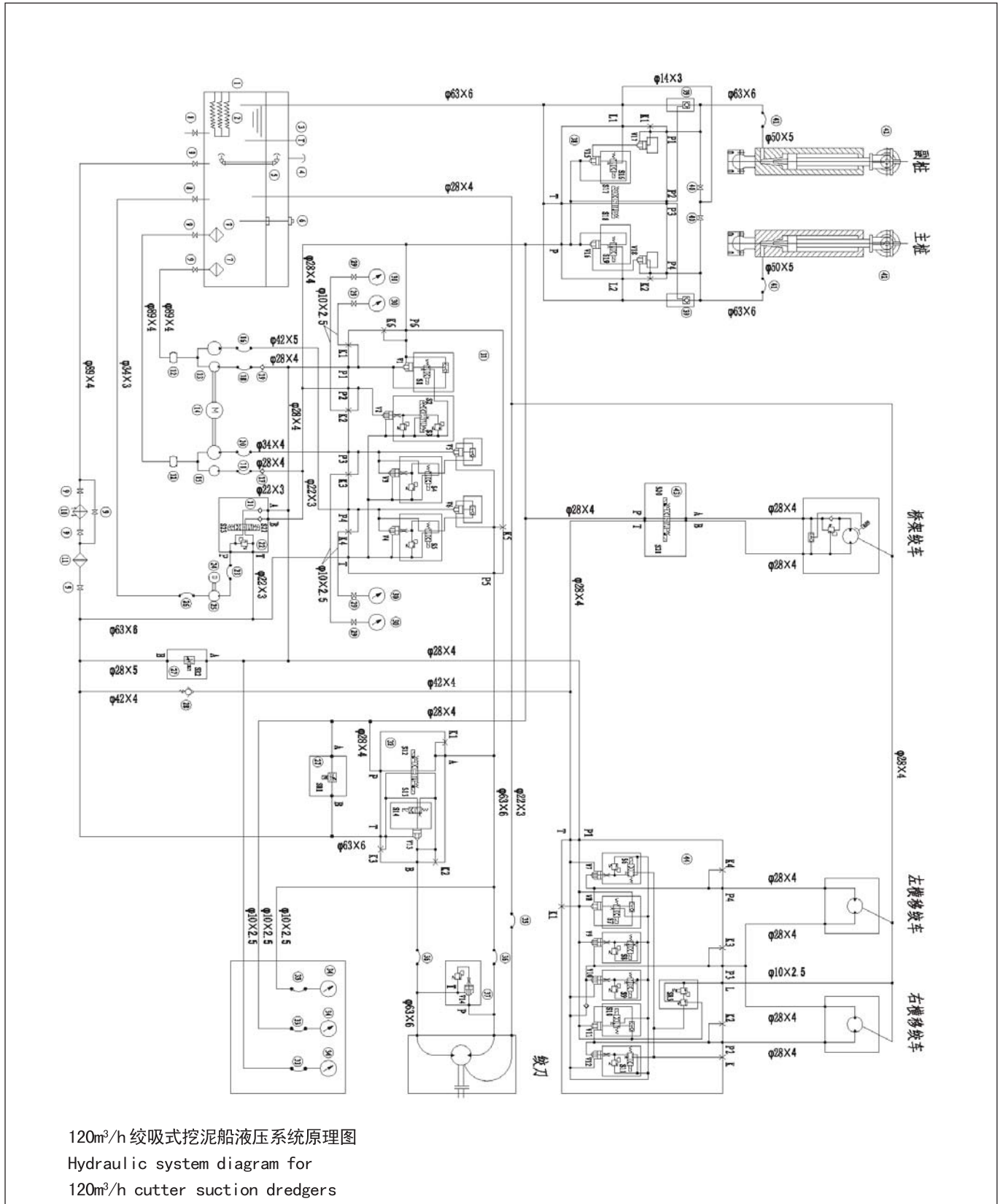
13	120M ³ /h multifunctional dredger	JIANGSU water machinery factory	
14	Ditcher for ocean floor oil pipeline	TIANJING TANGGU ocean ship engineering service CO, .LTD	
15	Hydraulic system for seabed cable pipe laying	SHENGLI oil field technology development center	Ship
16	50kN, 150kN mast hoist	Exported to Vietnam Hanoi BEIHAI transport company	
17	600DWT deck machinery for cargo ship	WUHAN NANHUA ship factory	
18	Hydrographic survey boat	GUANGXI GUIJIANG shipyard factory	
19	Hoisting hydraulic system for life boat	ZHENJIANG marine auxiliary machinery works	
20	SJA935 dual roller paper making equipment	WENRUI paper making factory	Light industry
21	Hydraulic hatch hydraulic system	ZHEJIANG DONGFANG ship factory	Ship
		REQING ZHONGCHUAN ship factory	
		ZHOUSHAN LIDAO ship factory	
		RELISHI ship equipment company	
22	10T, 15T, 25T,30T,35T marine crane hydraulic system	Viet Nam	
23	16T、 18T、 25T、 35T hydraulic winch system	TIANJING JINYAN engineering machinery company	
24	JB160.16A piling machinery hydraulic system	WENZHOU ZHENZHONG construction machinery company	Architecture
25	JBM150-Z piling machinery hydraulic system	WENZHOU ZHONGGANG construction machinery company	
26	Piledriver hydraulic system	Thailand	
27	Pipe layer hydraulic system	HUABEI petroleum construction company	Construction Machinery
28	7T、 15T、 20T、 25T、 30T hydraulic winch system	England Vietnam	
29	Cutter type crusher hydraulic system	SHANDONG YANGFAN company	Environment
30	100kN Hydraulic motor testing hydraulic system	NINGBO DAGANG INI hydraulic CO.,LTD	Test-stand
31	110kW hydraulic pump testing hydraulic system		
32	Thread cartridge valve testing hydraulic system		

Hydraulic Circuit Diagram

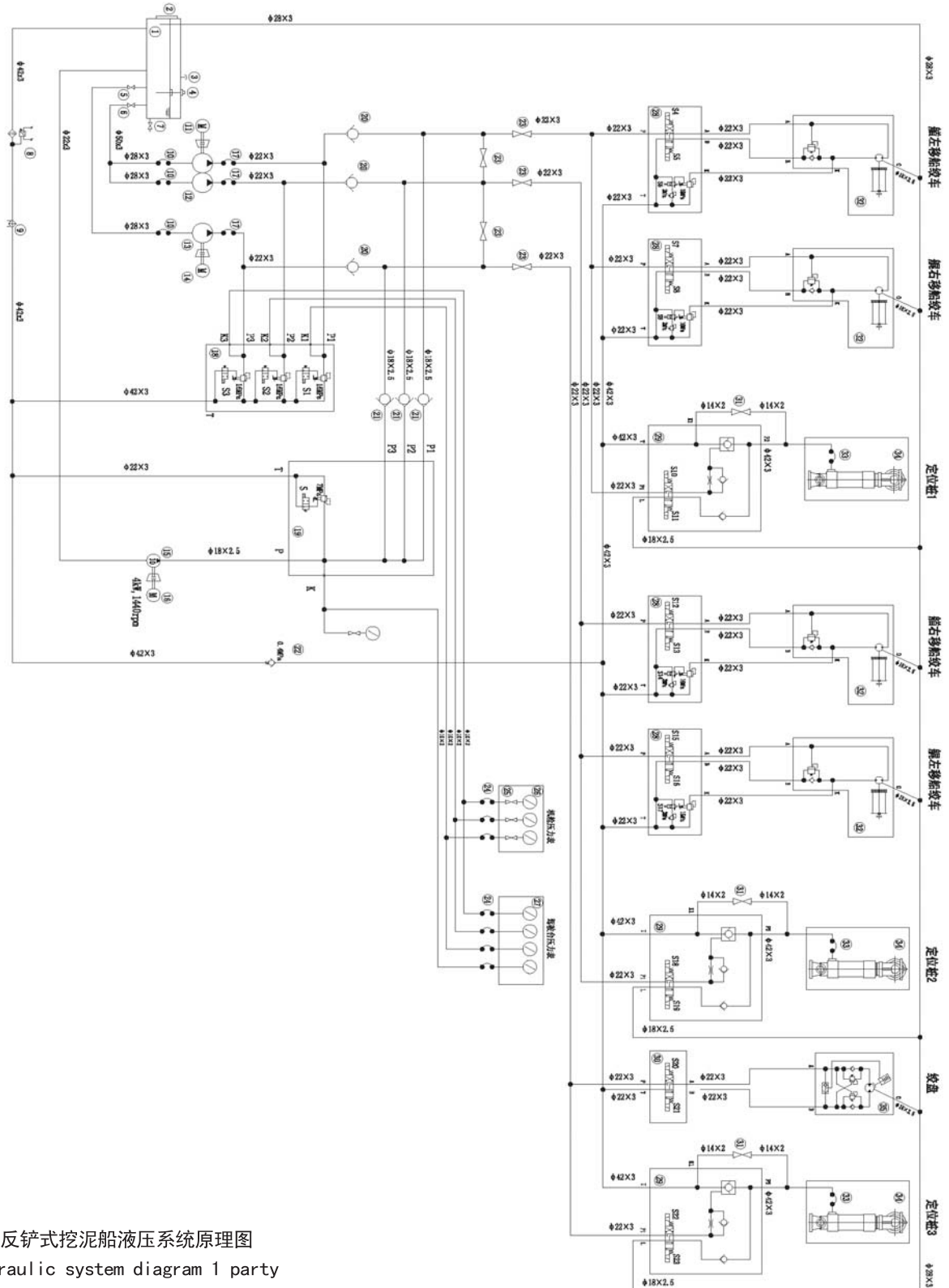


350m³/h 绞吸式挖泥船液压系统原理图
Hydraulic system diagram for
350m³/h cutter suction dredgers

Hydraulic Circuit Diagram

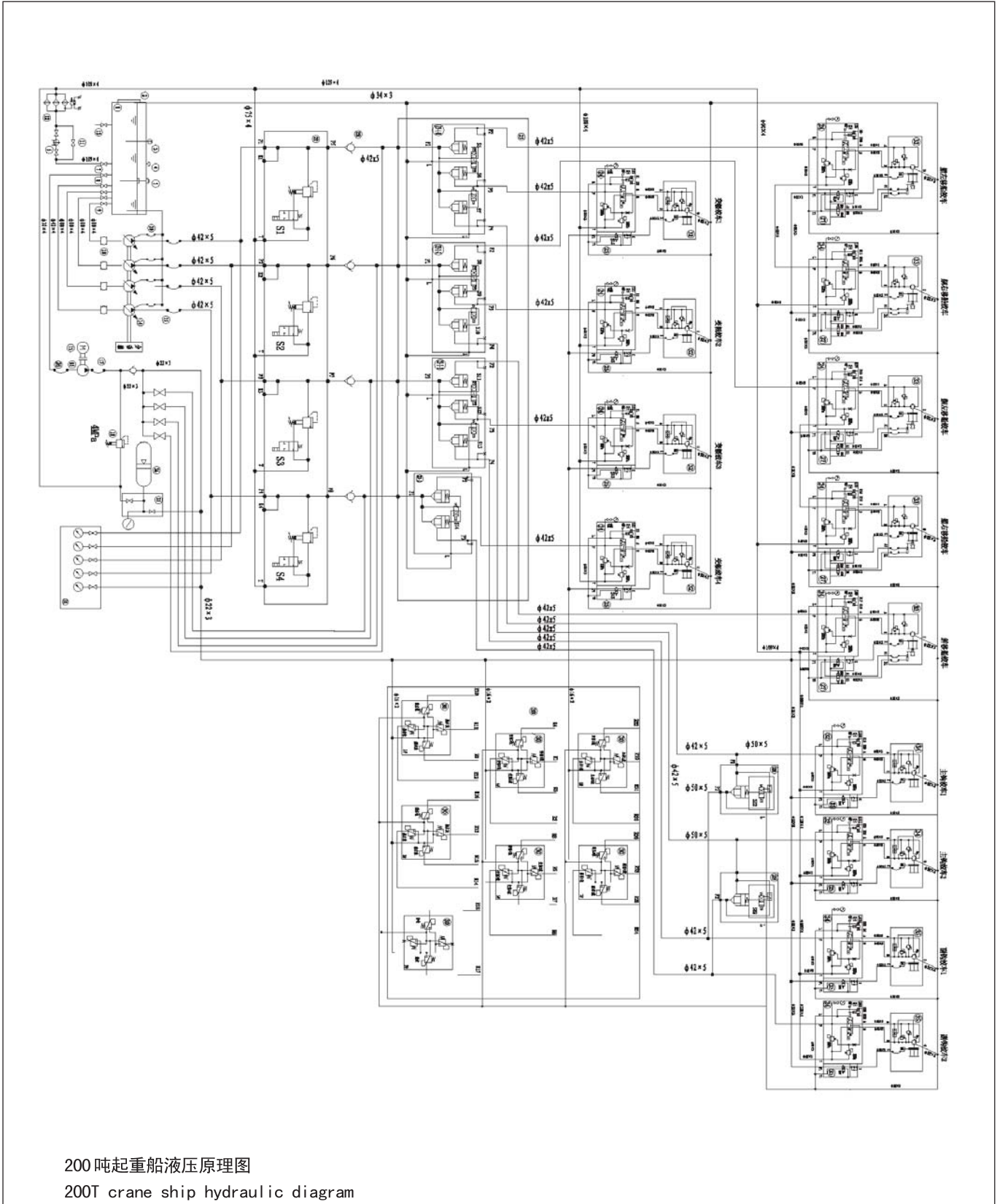


Hydraulic Circuit Diagram



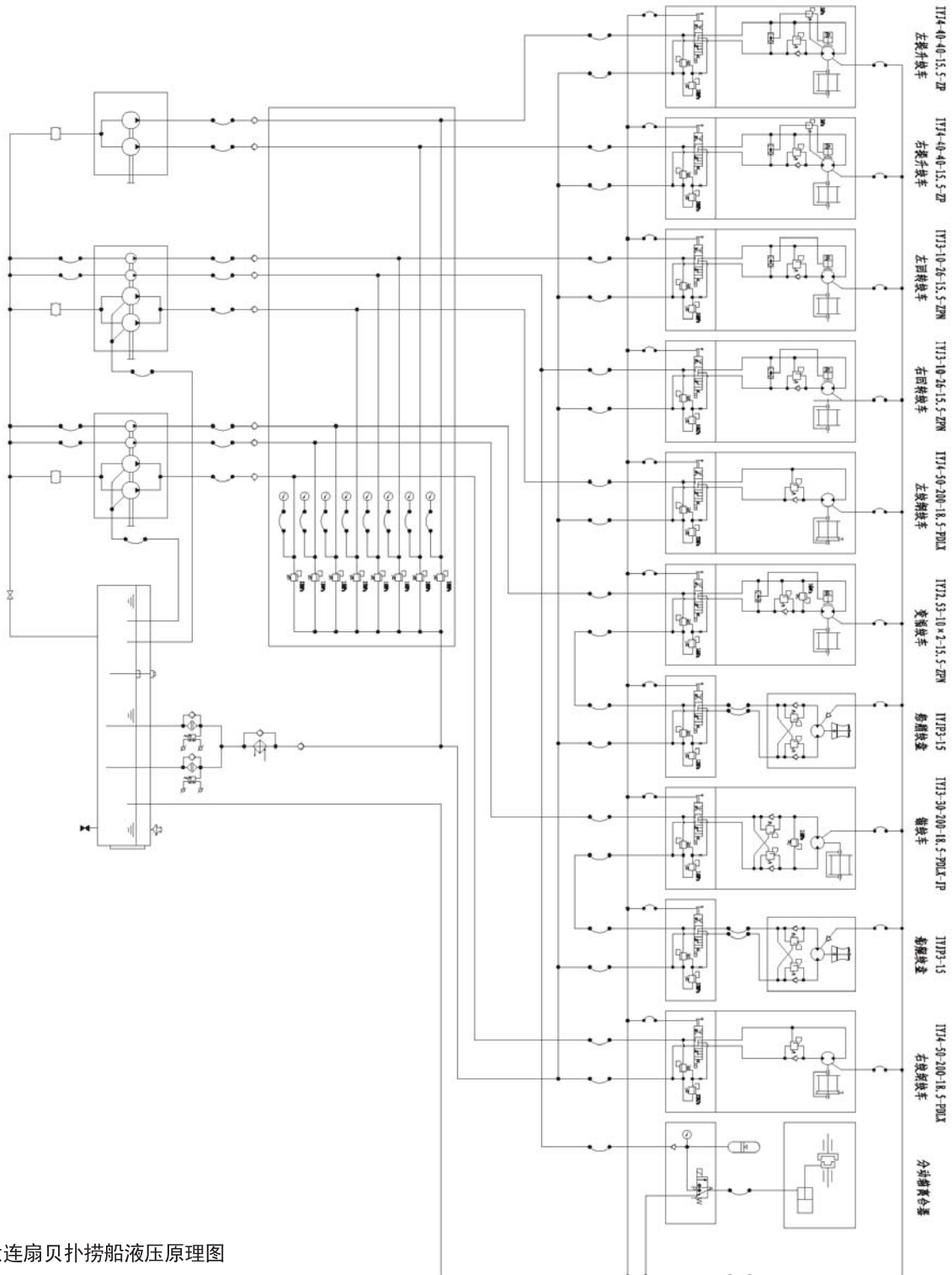
1方反铲式挖泥船液压系统原理图
hydraulic system diagram 1 party
backhoe dredger

Hydraulic Circuit Diagram



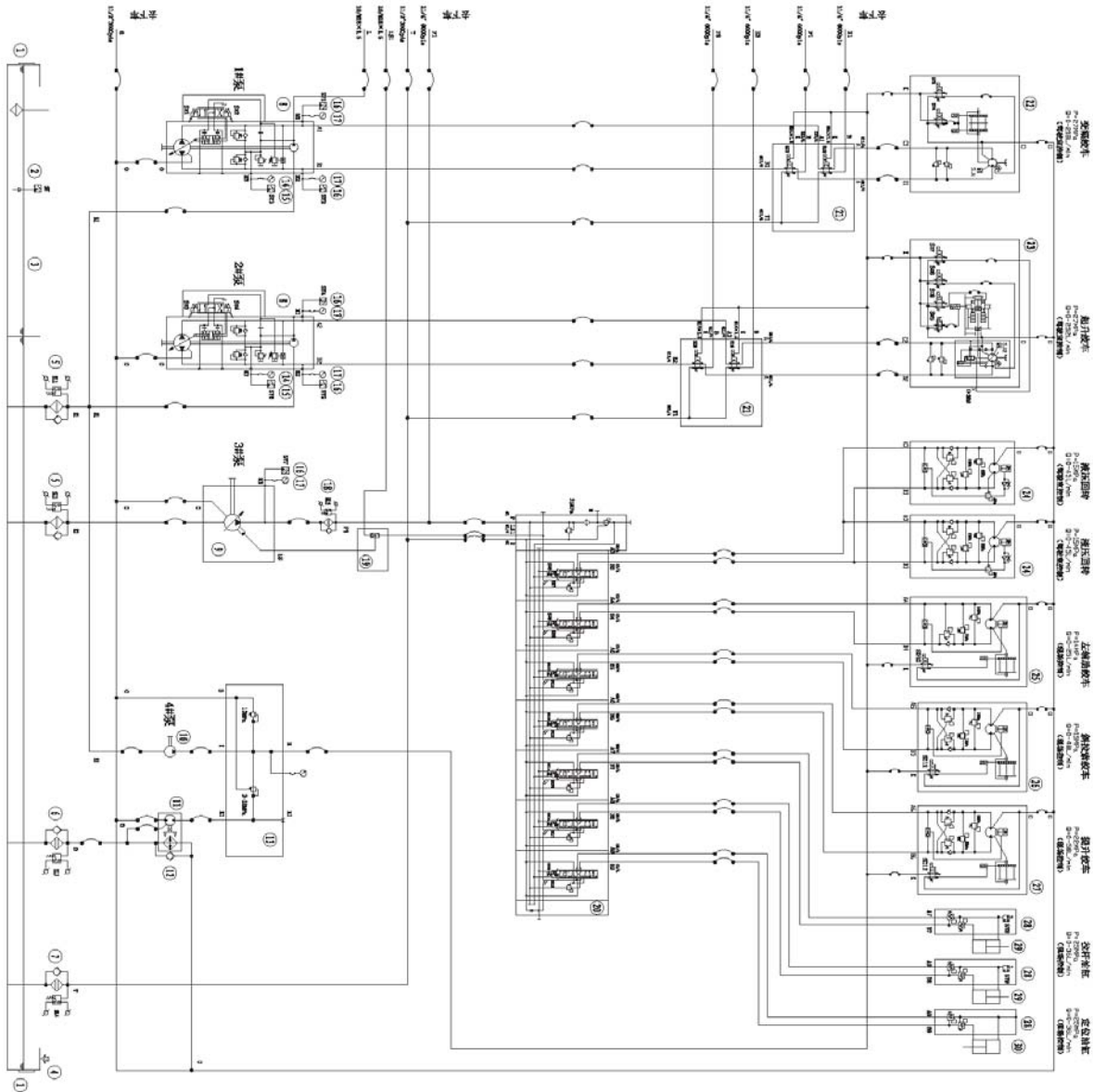
200吨起重船液压原理图
200T crane ship hydraulic diagram

Hydraulic Circuit Diagram



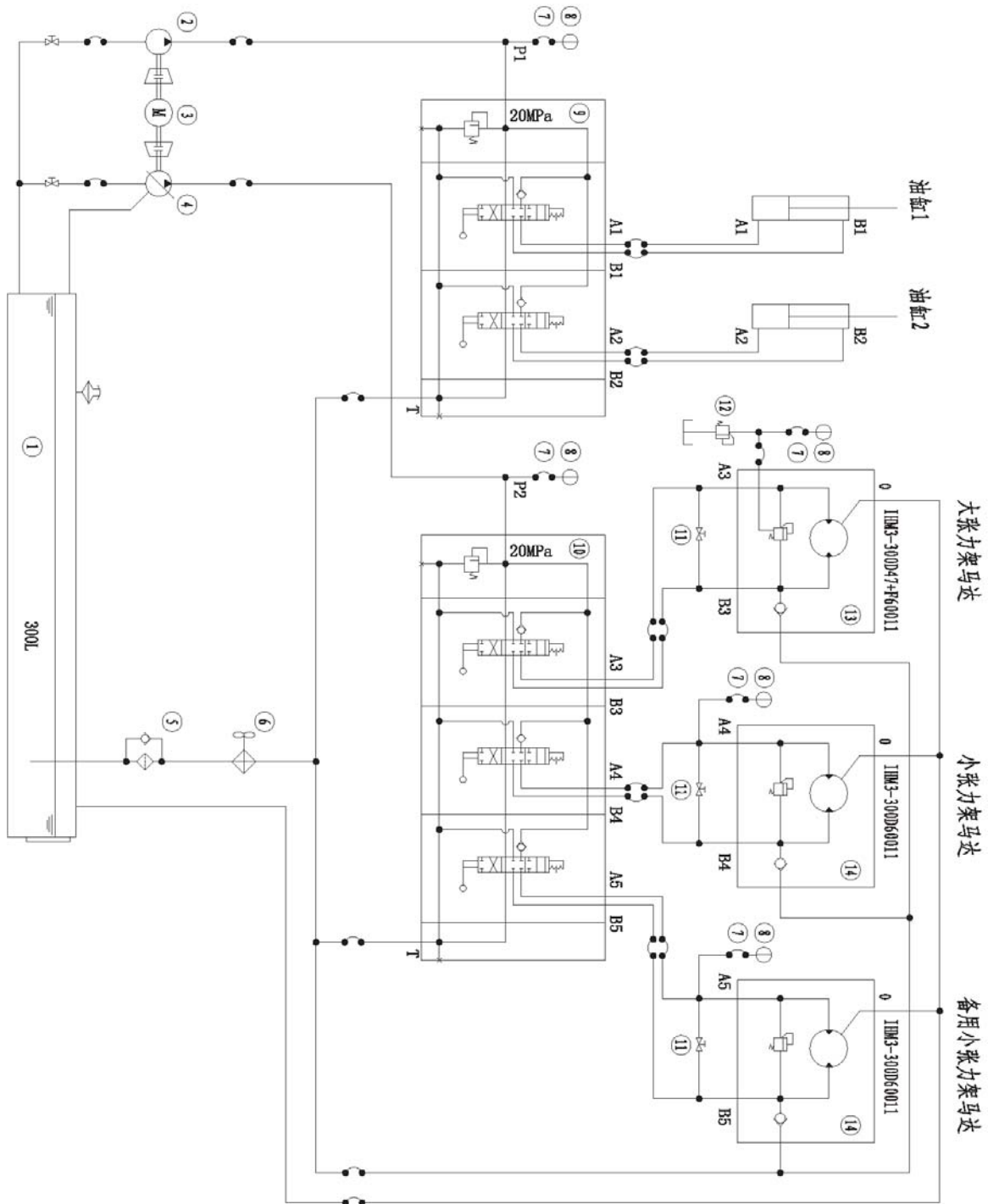
大连扇贝扑捞船液压原理图
Hydraulic system diagram for
dalian scallop-fishing ships

Hydraulic Circuit Diagram



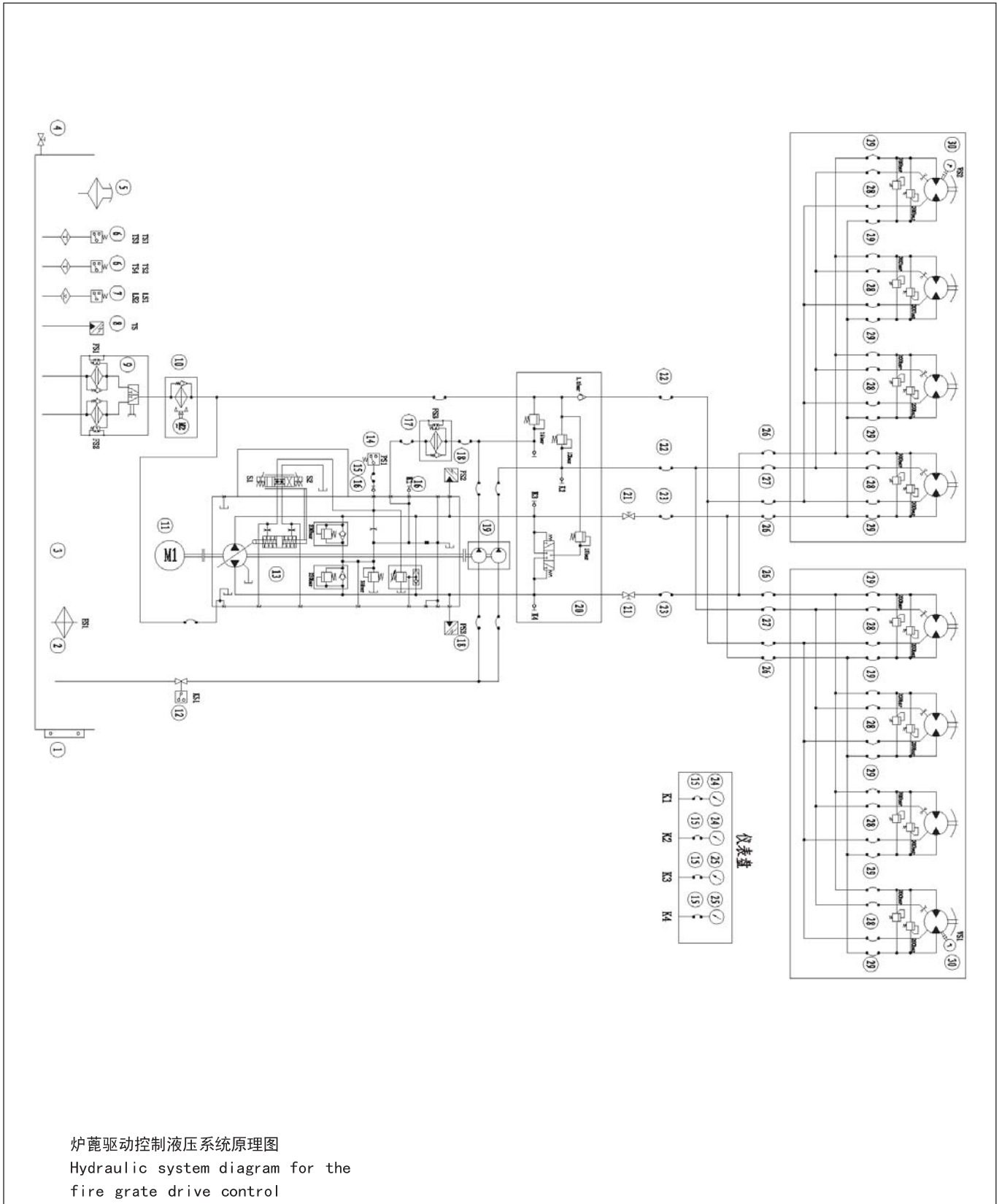
风能设备安装车液压系统原理图
Hydraulic system diagram for
wind energy equipment

Hydraulic Circuit Diagram

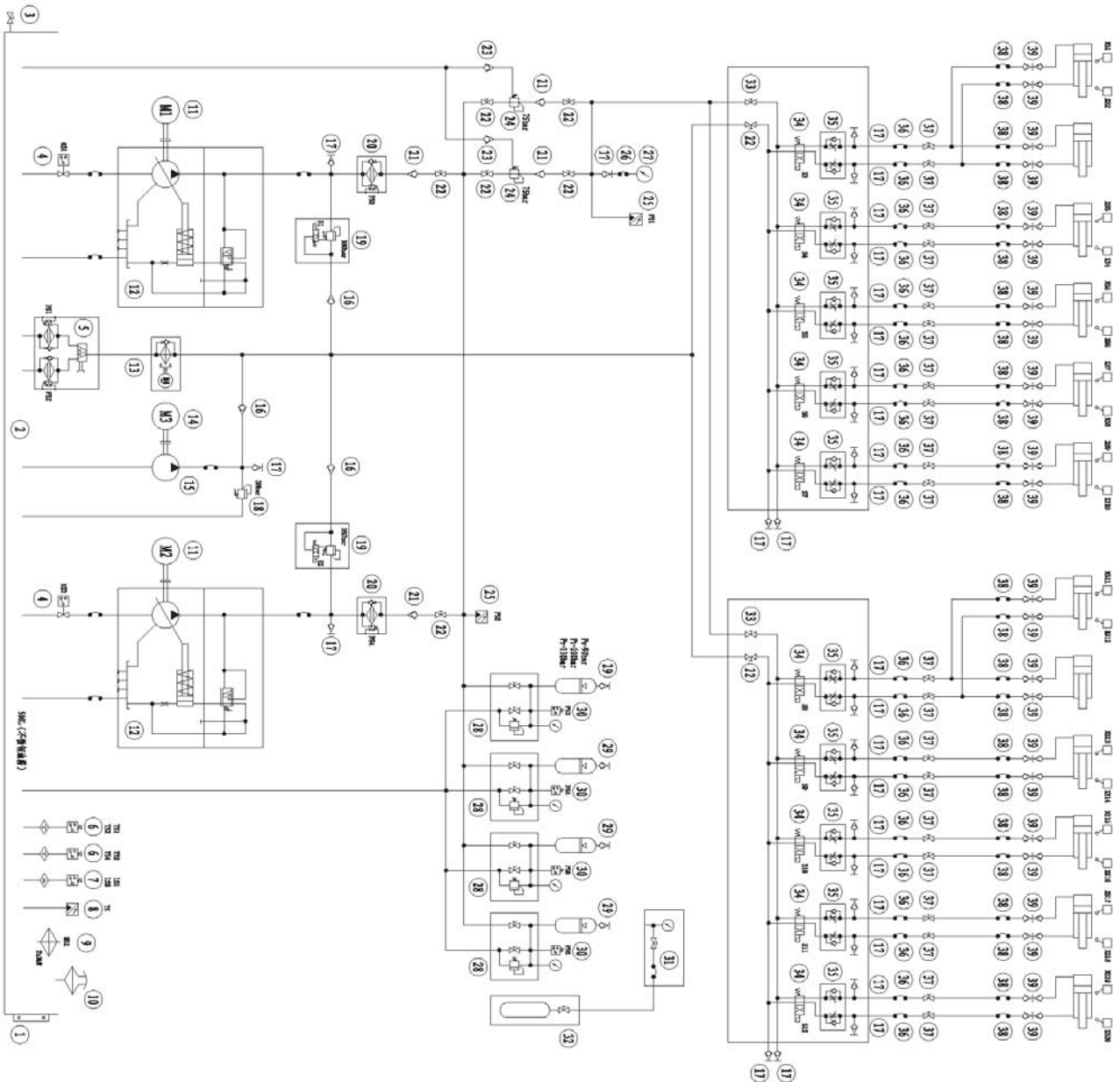


电缆车用液压系统原理图
Hydraulic system diagram for
cable vehicle

Hydraulic Circuit Diagram

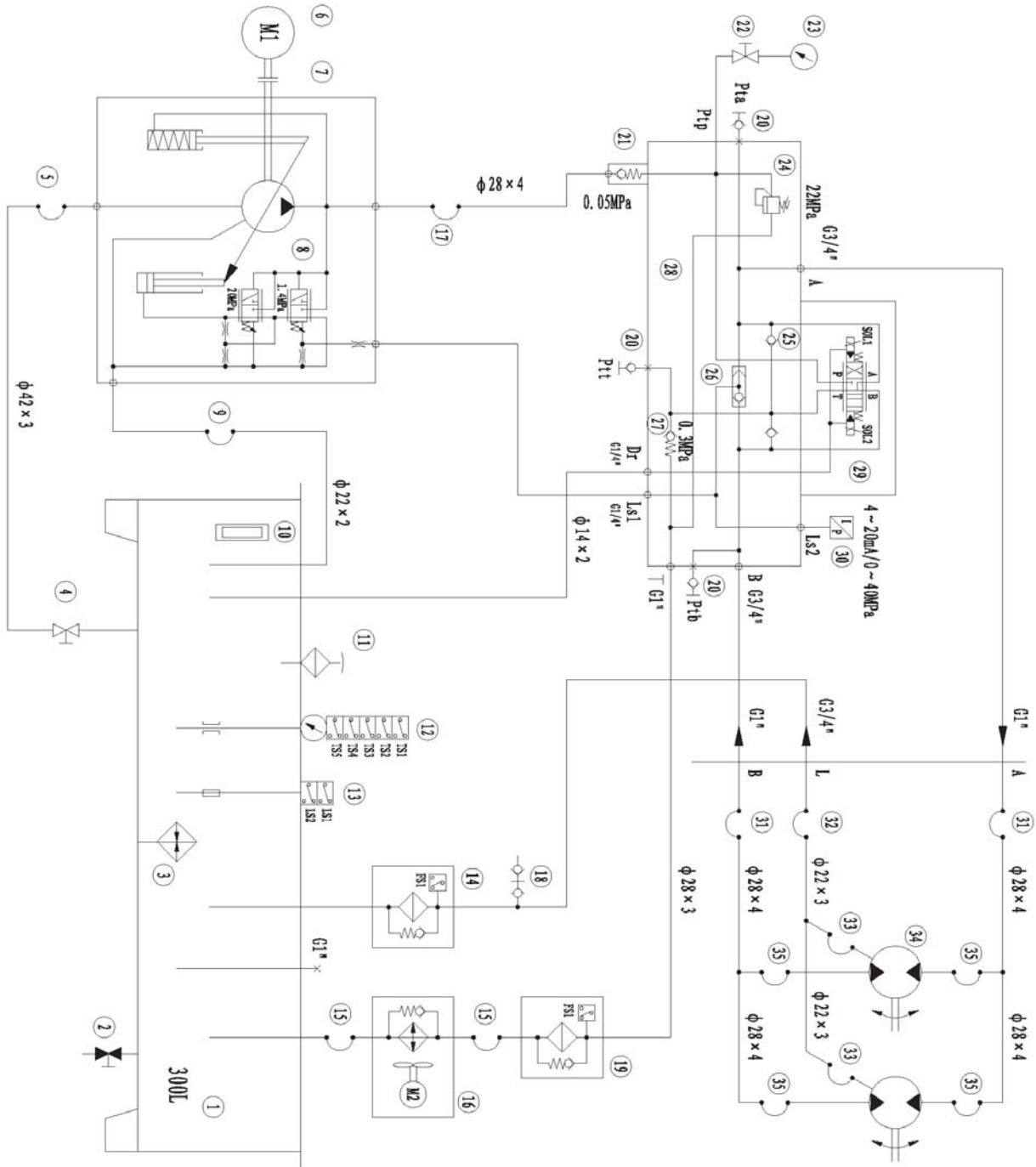


Hydraulic Circuit Diagram



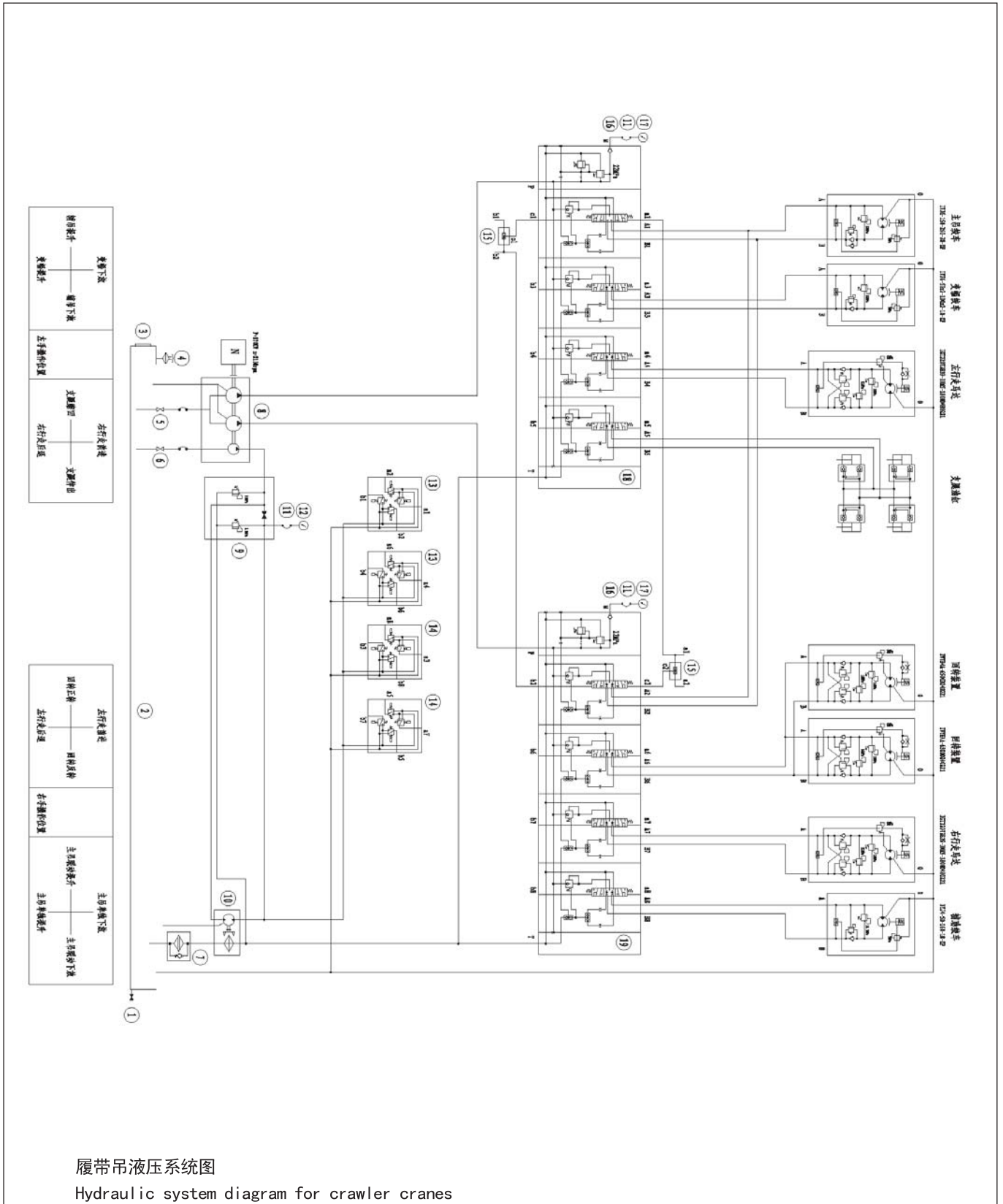
煤锁产品锁控制液压系统原理图
Hydraulic system diagram for
locking control in the product

Hydraulic Circuit Diagram



刮板式捞渣机液压系统原理图
Hydraulic system diagram for scraper slag fishing machine

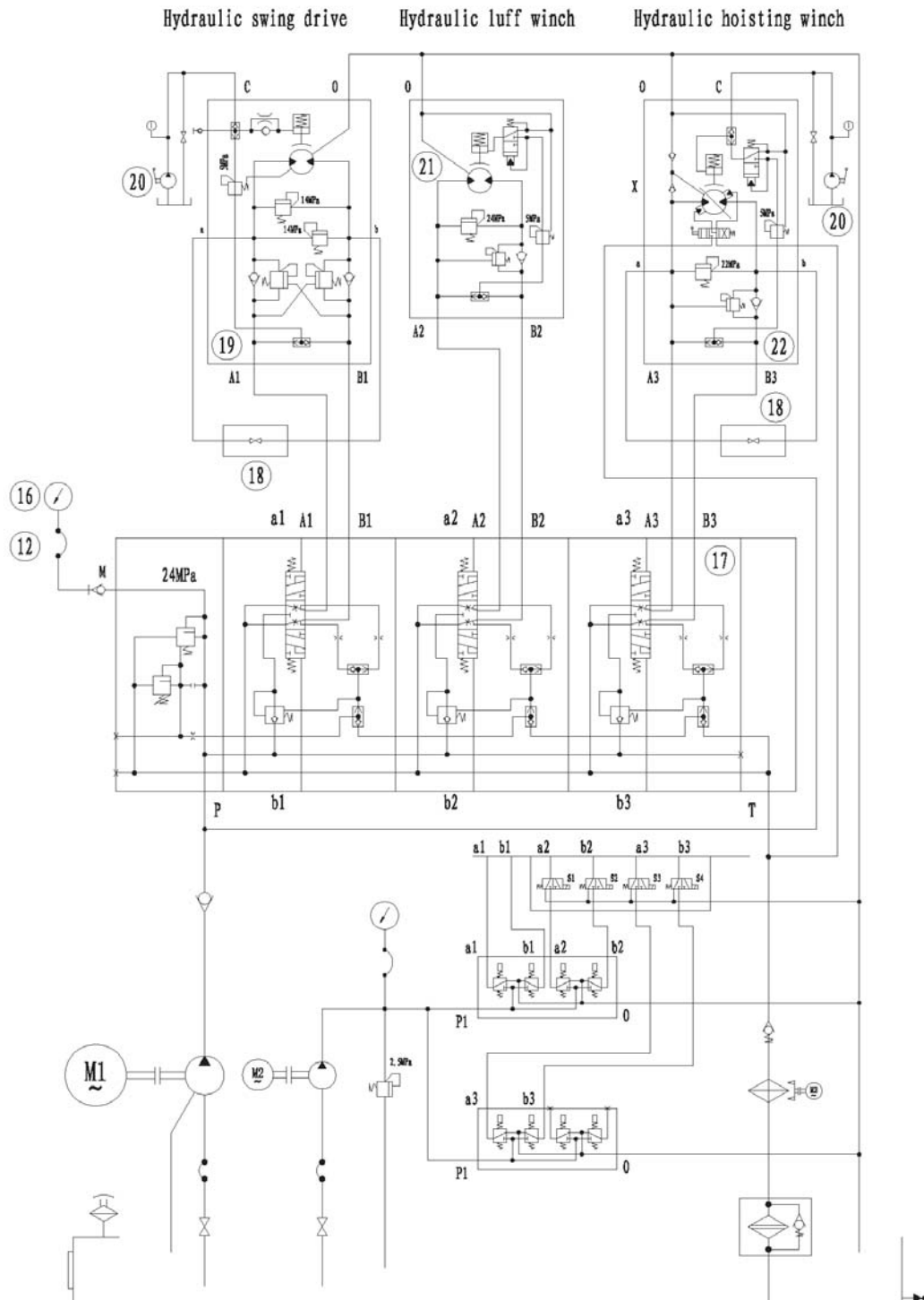
Hydraulic Circuit Diagram



履带吊液压系统图

Hydraulic system diagram for crawler cranes

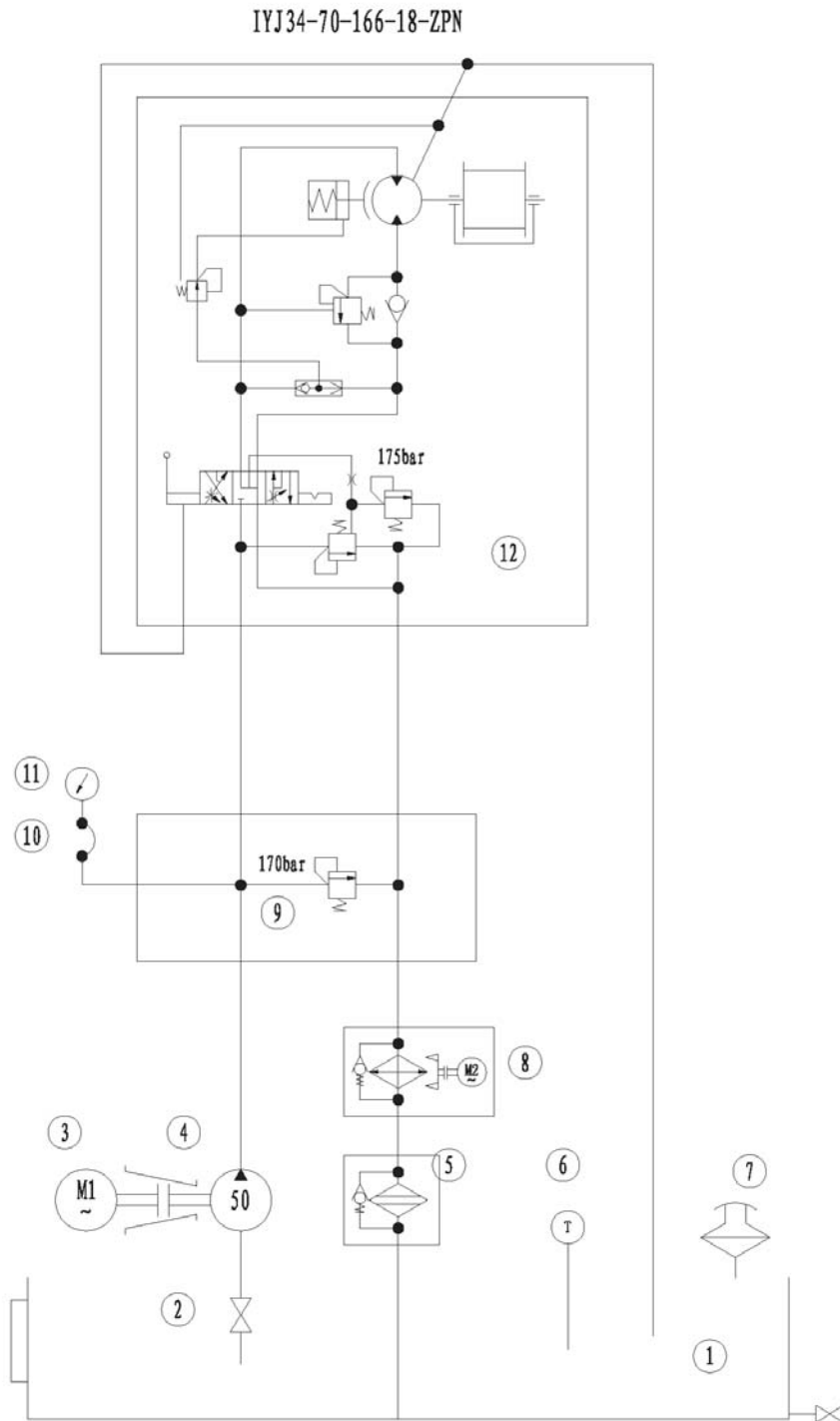
Hydraulic Circuit Diagram



10吨船用吊车液压系统原理图

Hydraulic system diagram for 10T cutter marine crane

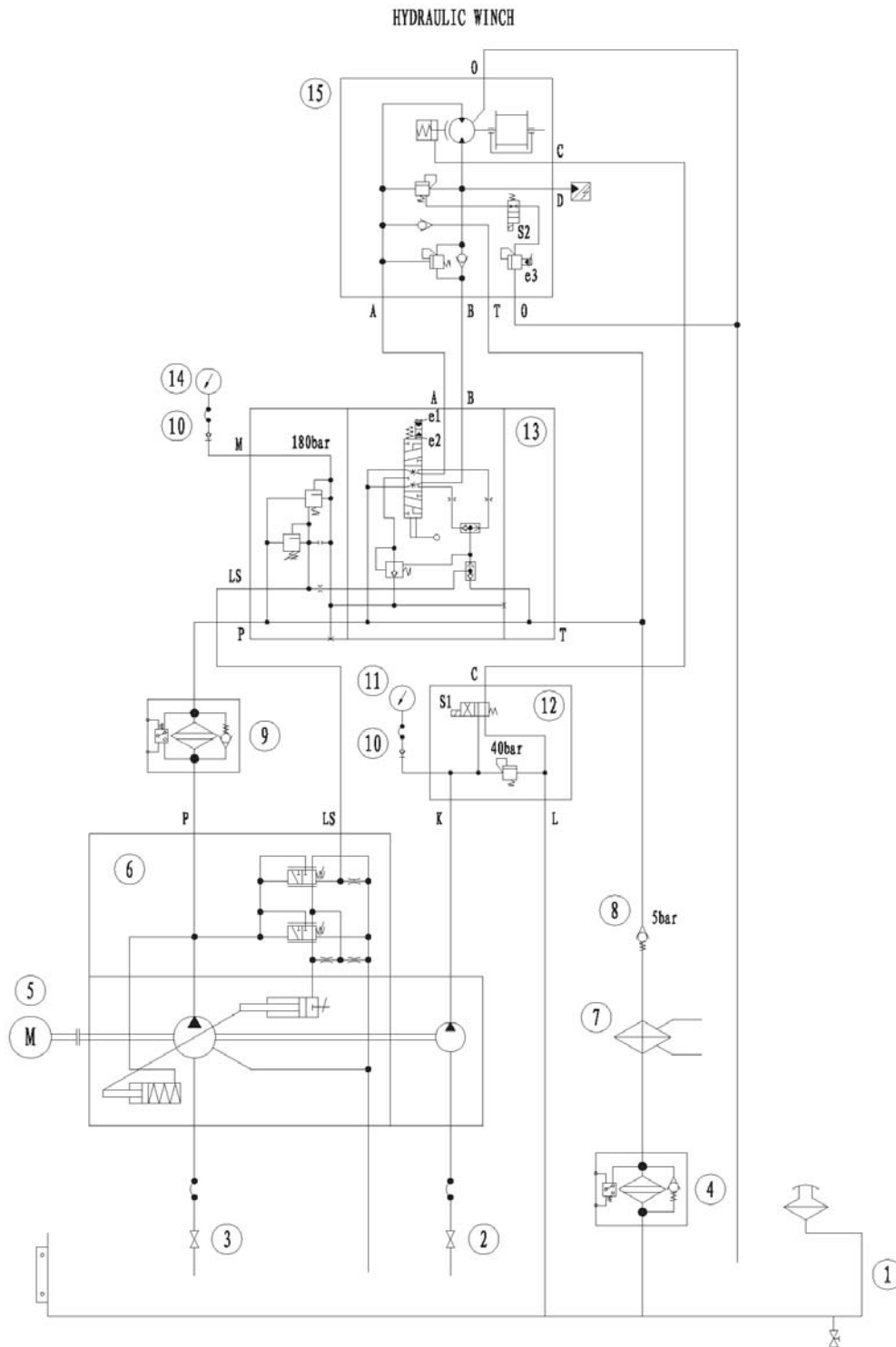
Hydraulic Circuit Diagram



液压绞车 (IYJ34-70-166-18-ZPN) 液压原理图

IYJ34-70-166-18-ZPN Hydraulic system diagram for hydraulic winch

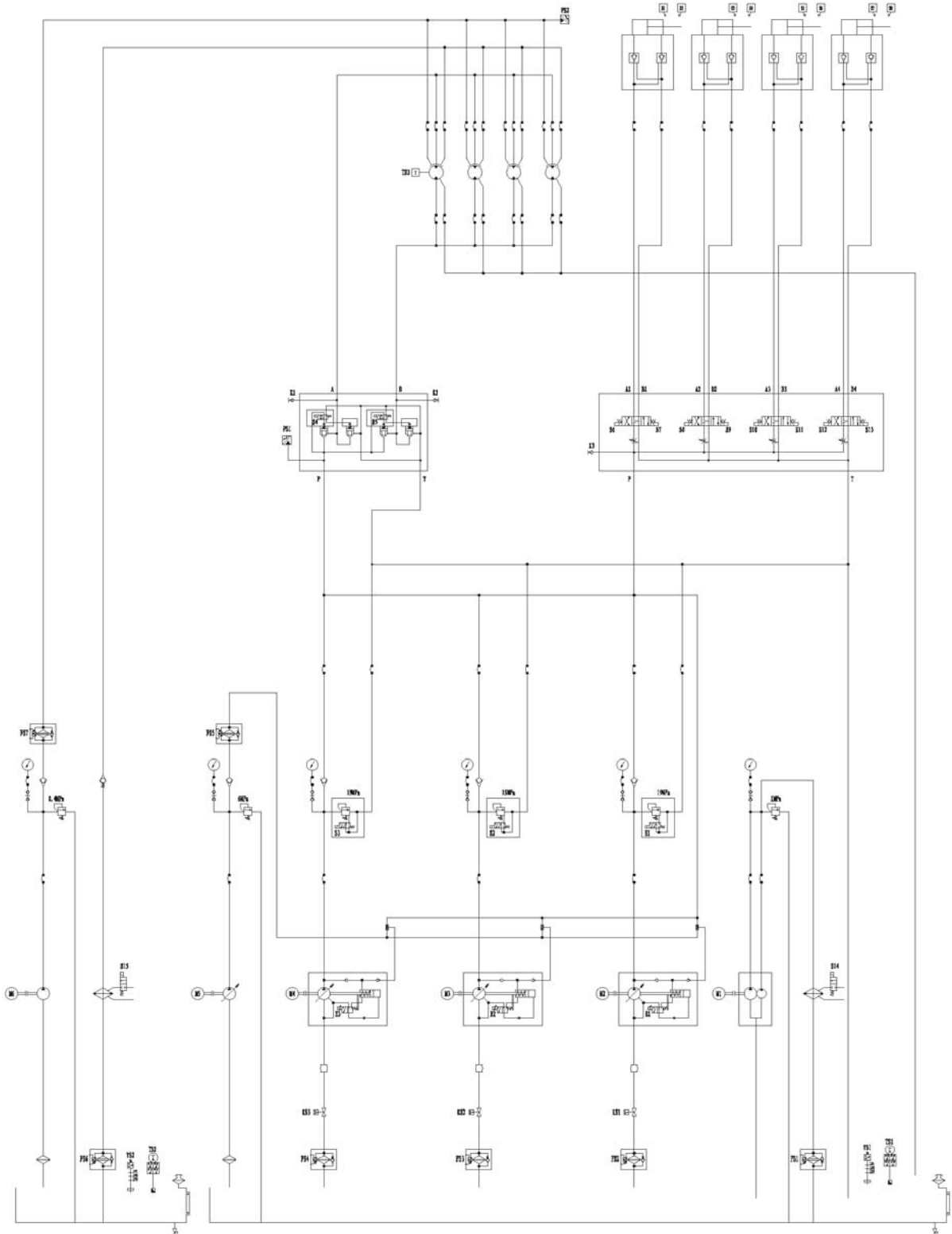
Hydraulic Circuit Diagram



液压绞车原理图

Hydraulic system diagram for hydraulic winch

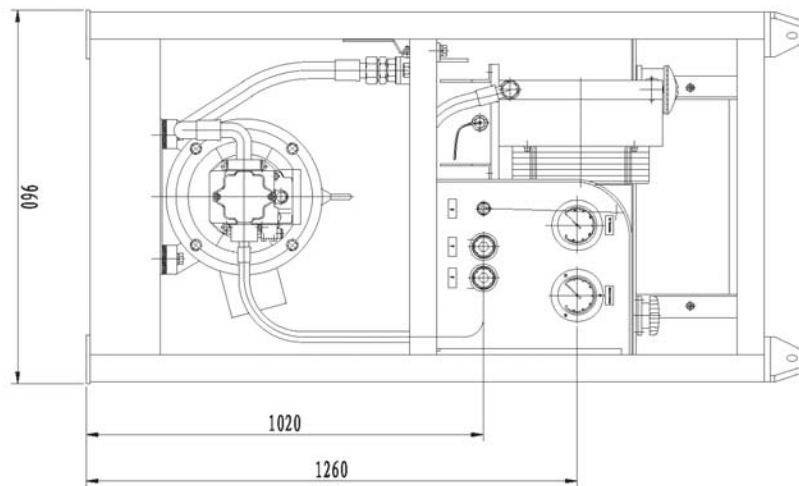
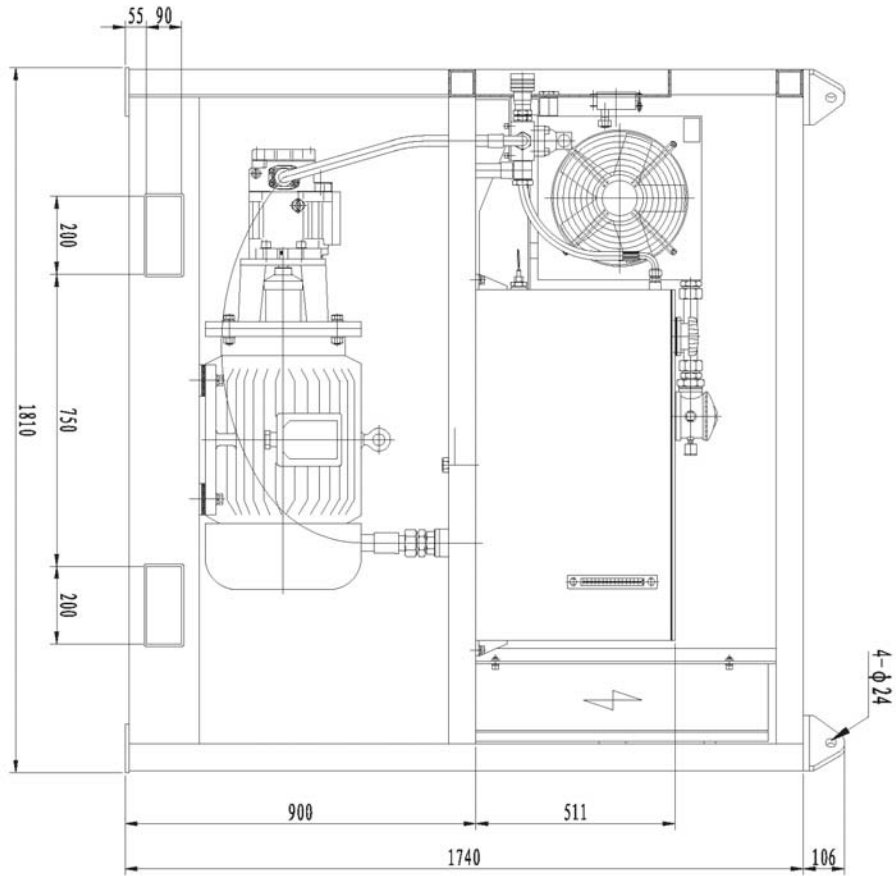
Hydraulic Circuit Diagram



炉底回转装置驱动系统液压原理图

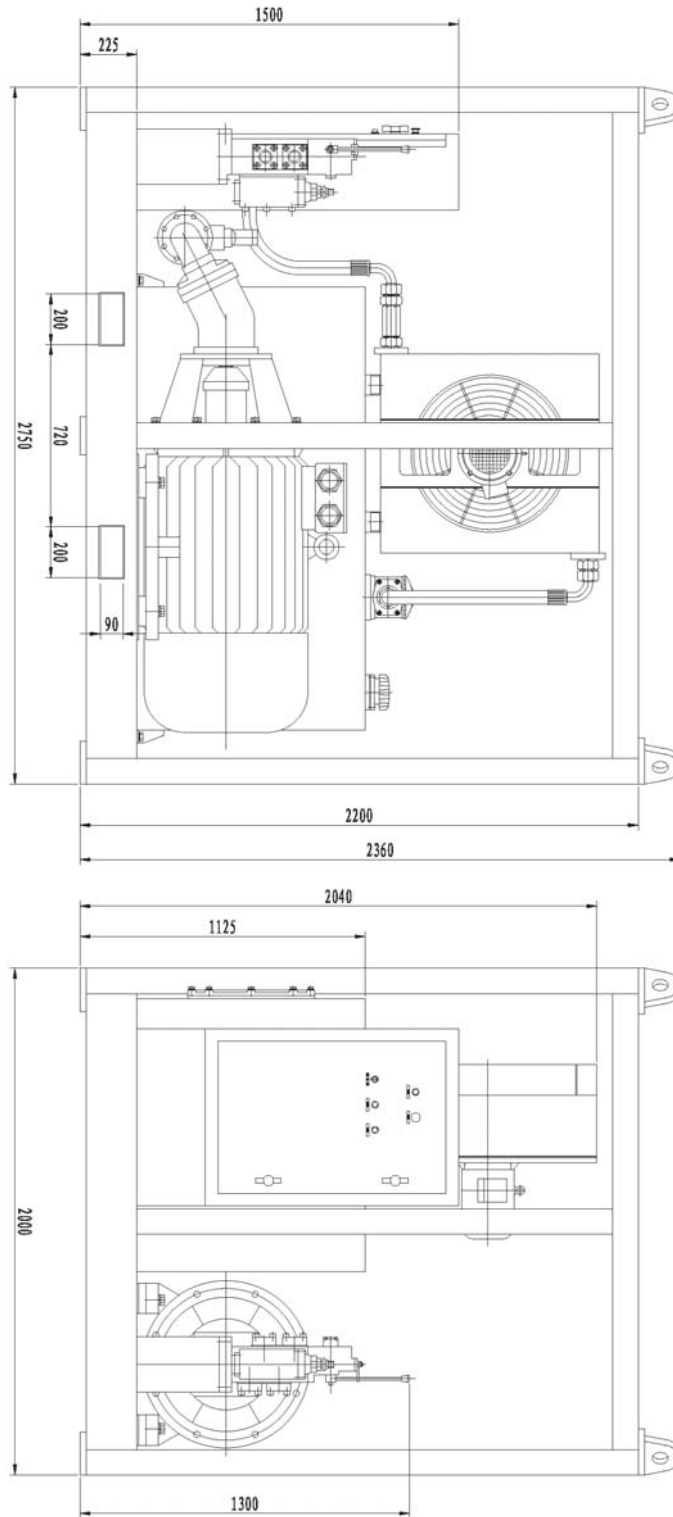
Hydraulic system diagram for rotary device driving system

Hydraulic Unit Figure



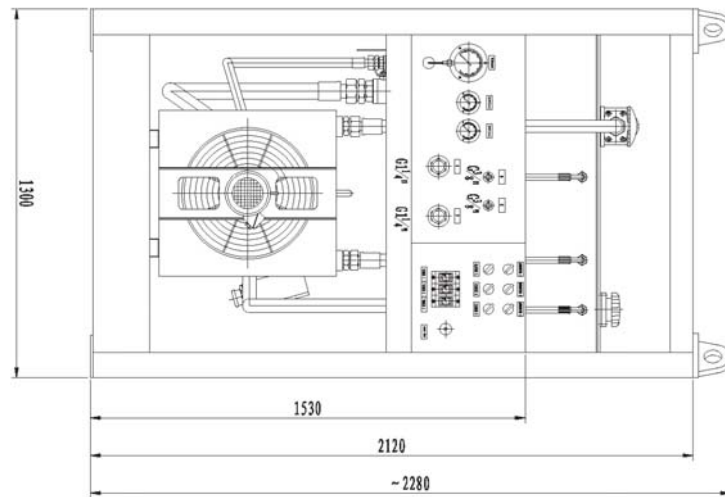
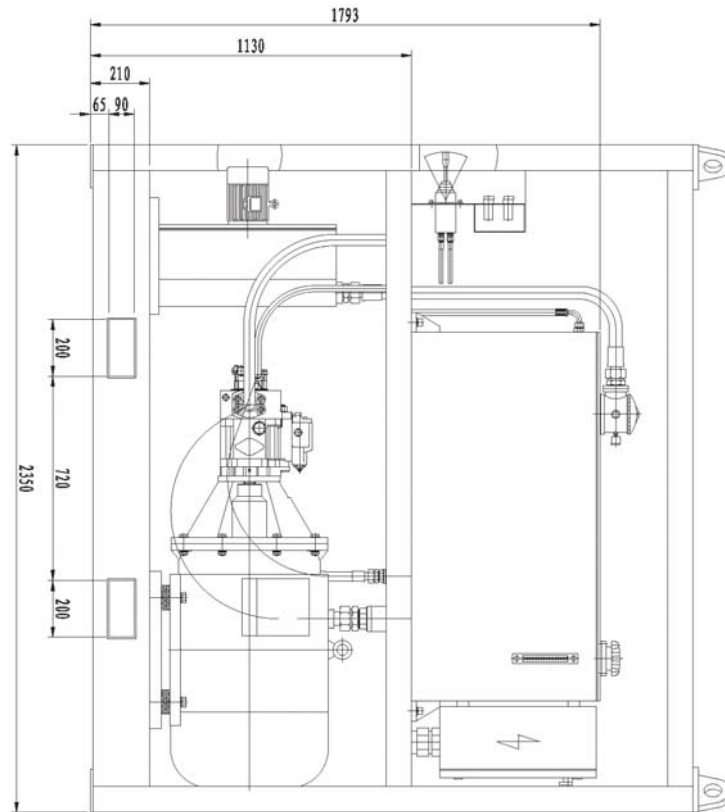
液压绞车 (IYJ4-70-500-22-ZP) 配套液压泵站
IYJ4-70-500-22-ZP hydraulic winch power pack

Hydraulic Unit Figure



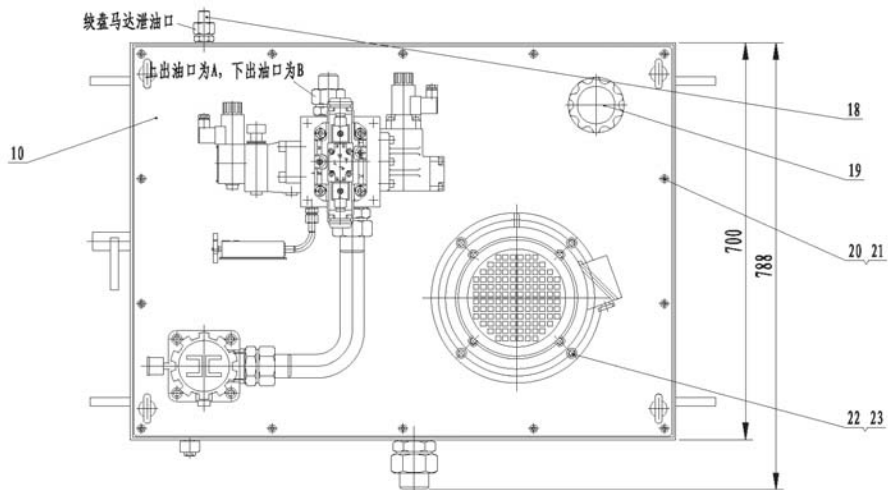
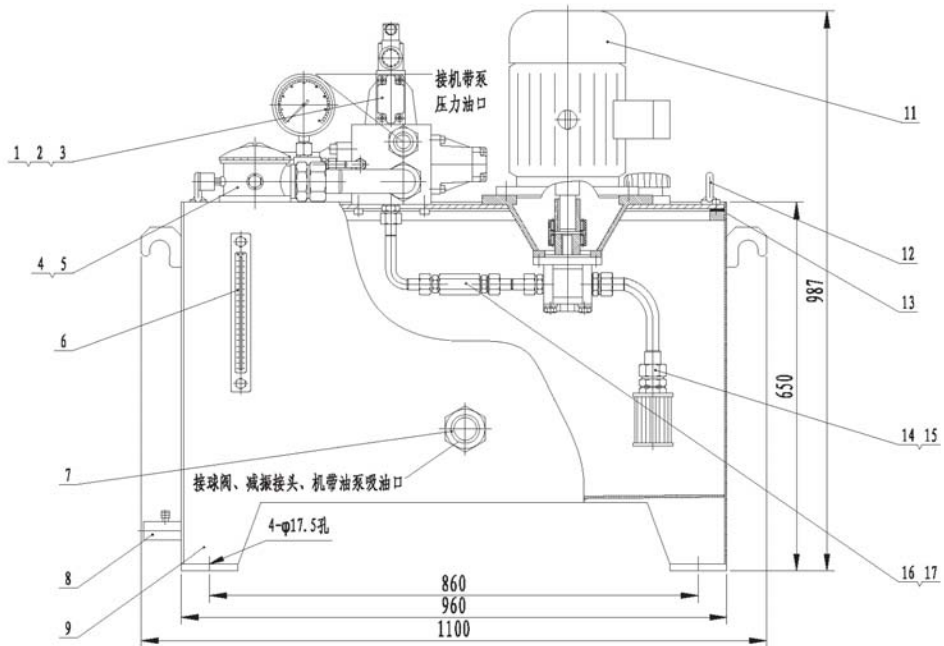
液压绞车 (IYJ466-110-3000-20.5-ZPG) 配套液压泵站
 IYJ466-110-3000-20.5-ZPG hydraulic winch power pack

Hydraulic Unit Figure



液压泵站
Hydraulic power pack

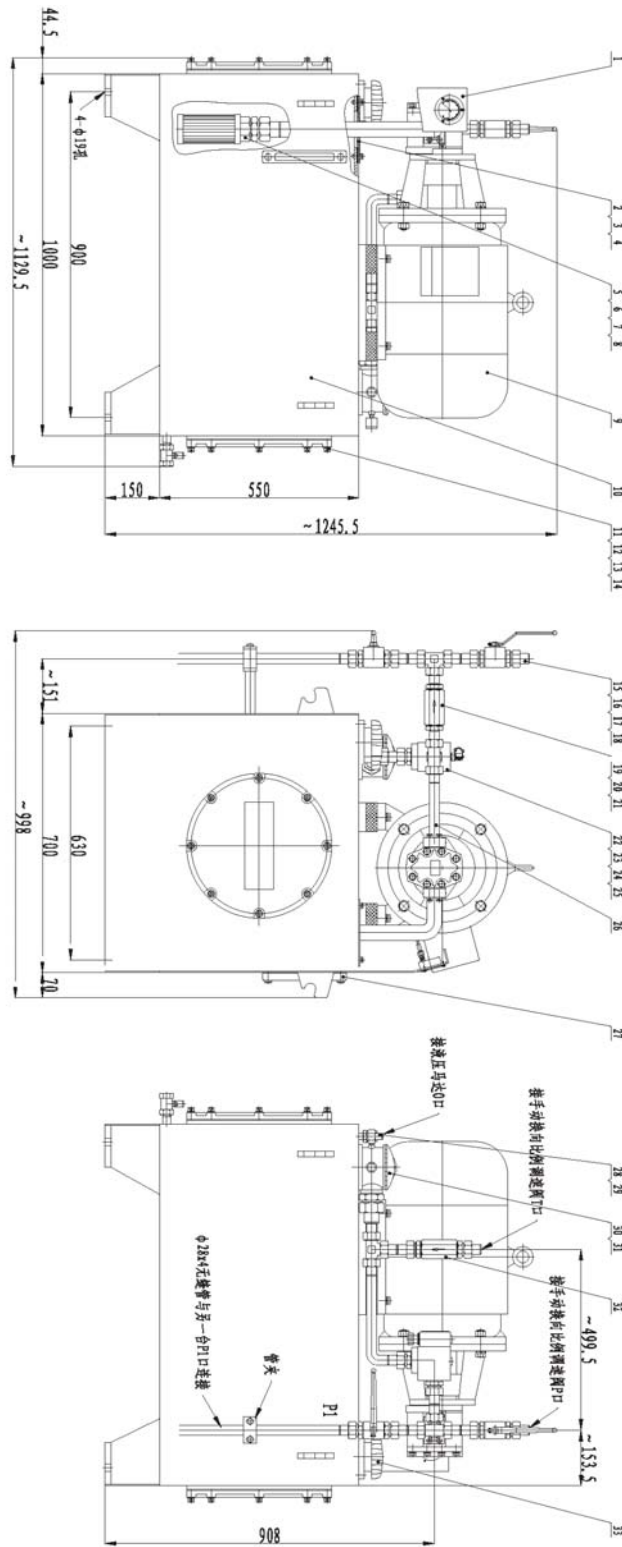
Hydraulic Unit Figure



5吨纹盘液压站布置图

Power pack for 5t hydraulic capstans

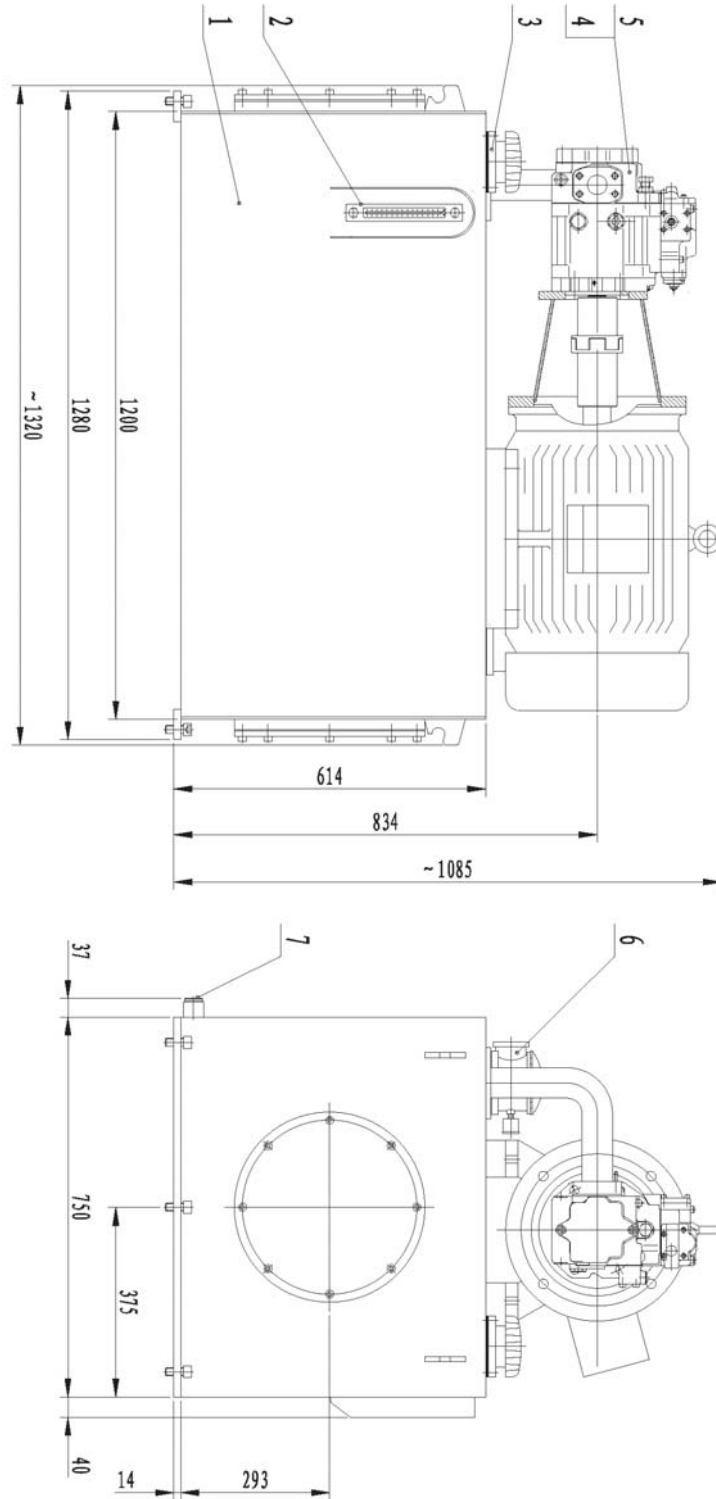
Hydraulic Unit Figure



液压绞车 (IYJ2. 53-50-50-22-ZPN) 配套液压泵站

IYJ2. 53-50-50-22-ZPN power pack for hydraulic winch

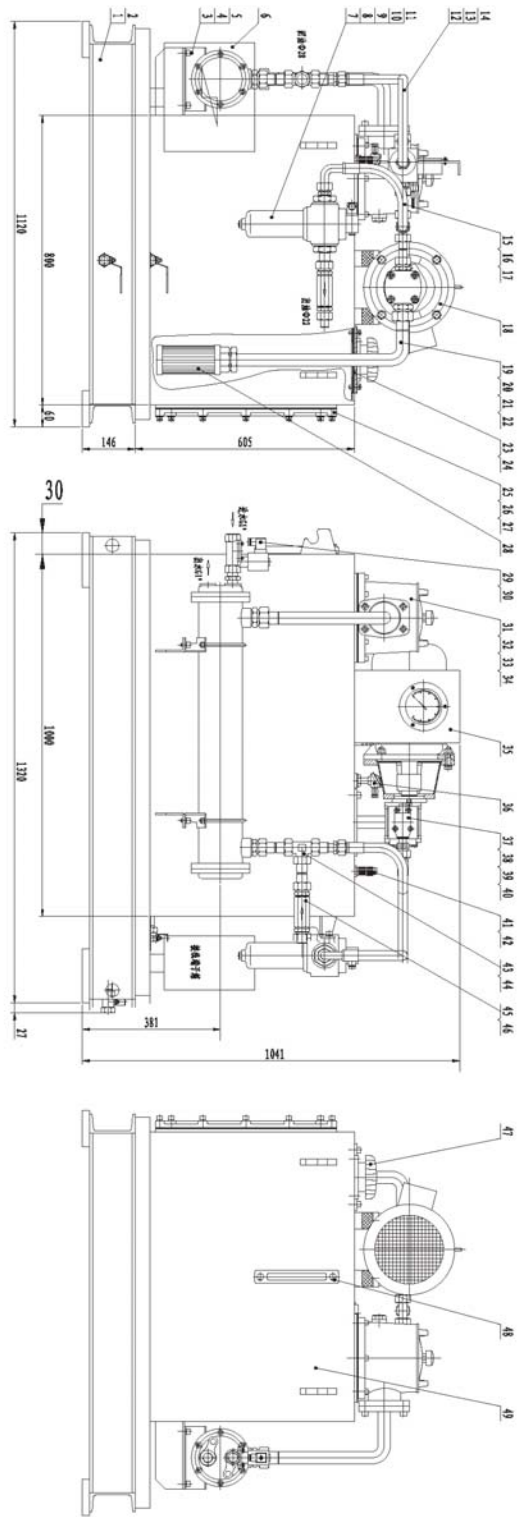
Hydraulic Unit Figure



液压绞车配套系统布置图

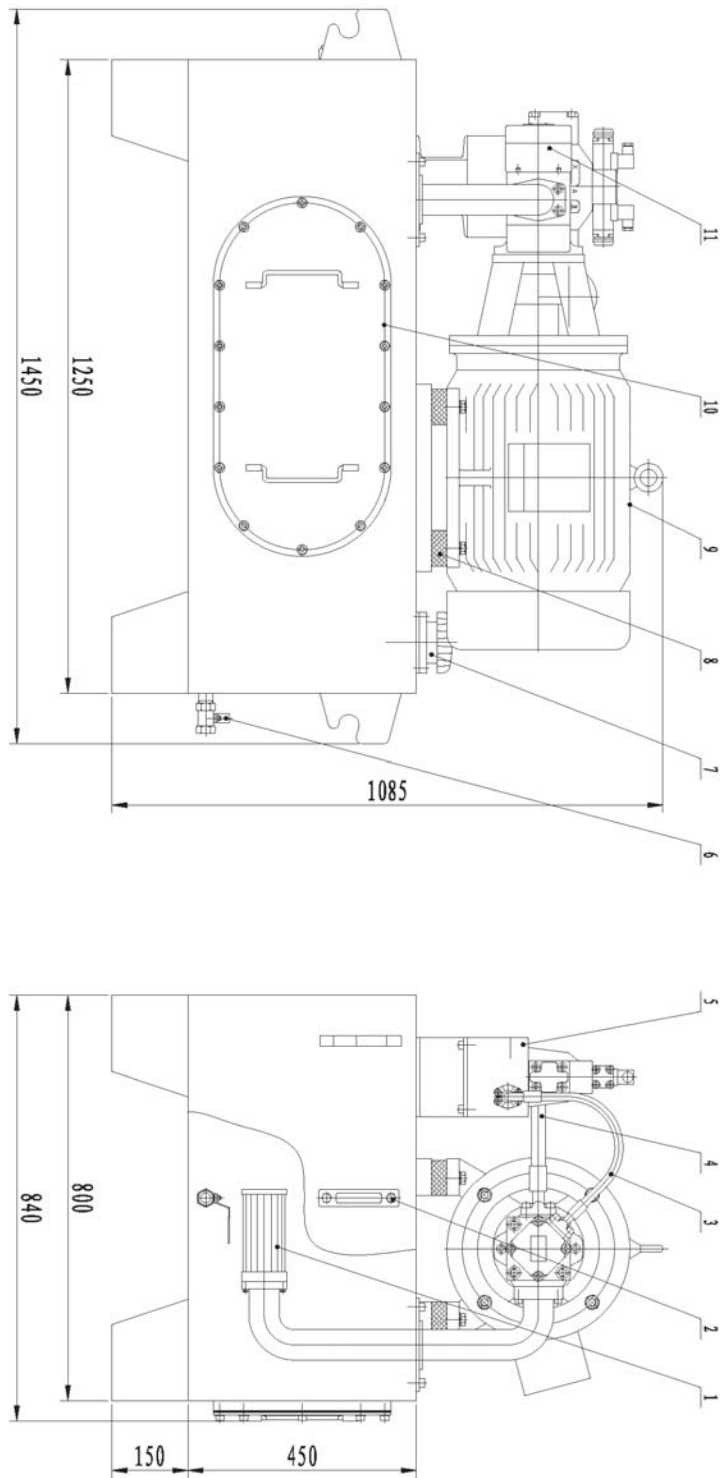
Power pack for hydraulic winches

Hydraulic Unit Figure



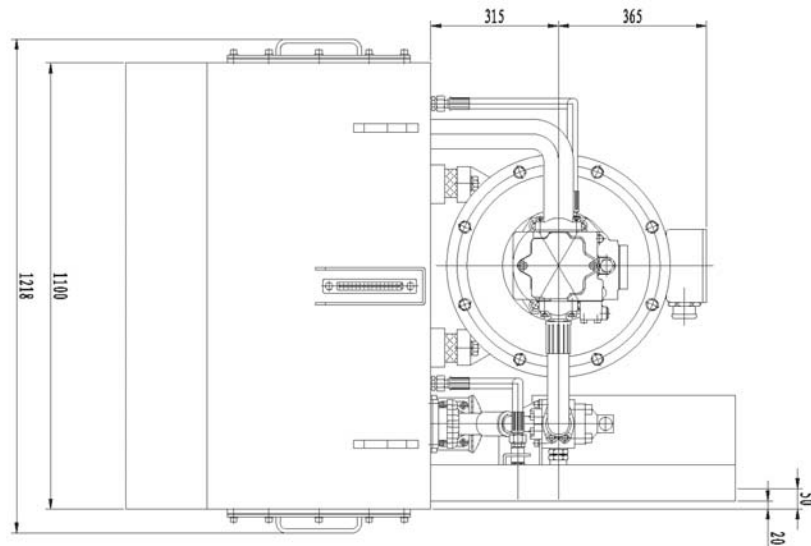
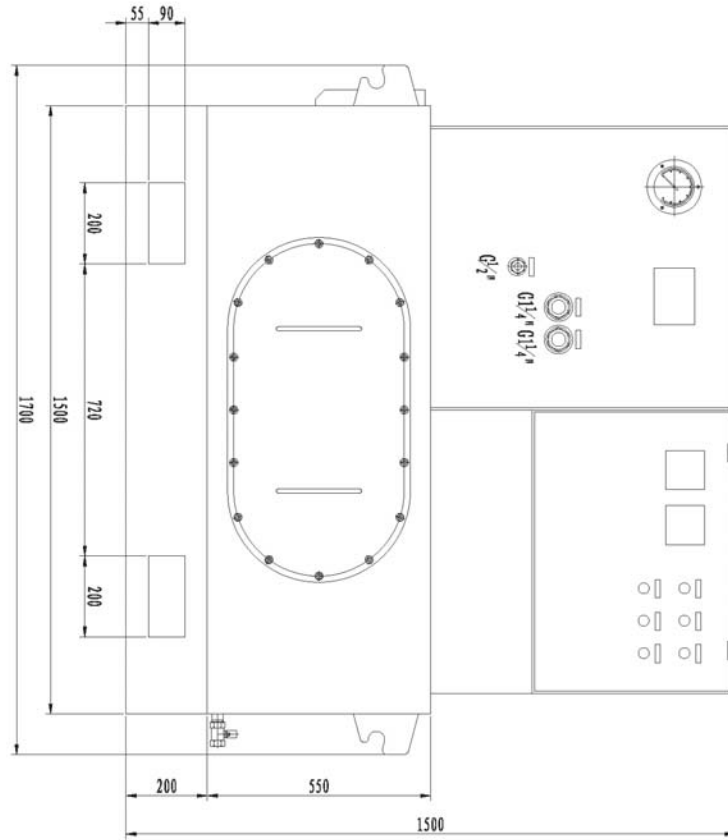
冲洗泵站
Power pack for flushing

Hydraulic Unit Figure



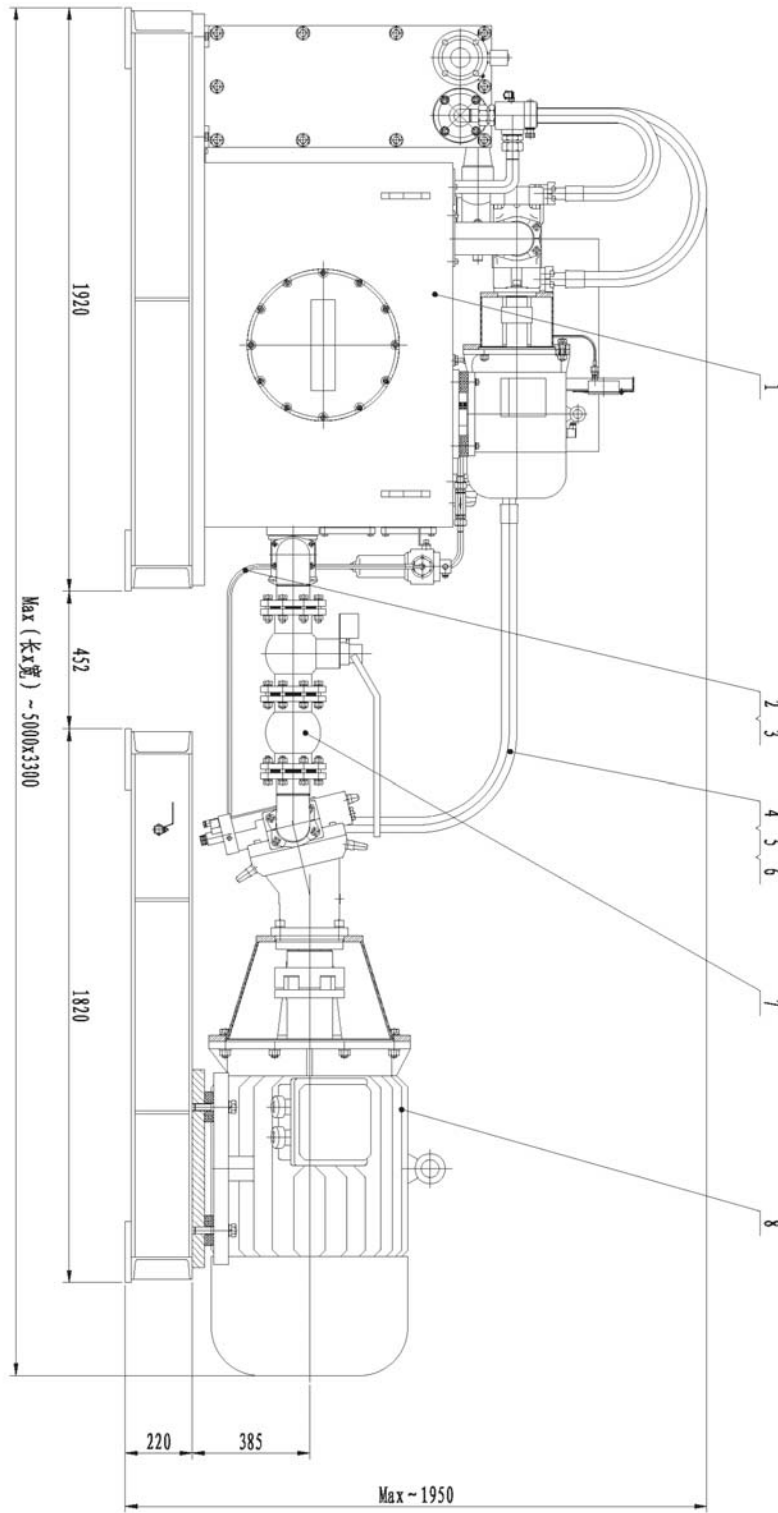
液压泵站
Hydraulic power unit

Hydraulic Unit Figure



液压绞车 (1YJ5-100-55-25. 4-ZP) 配套液压泵站
1YJ5-100-55-25. 4-ZP hydraulic winch power pack

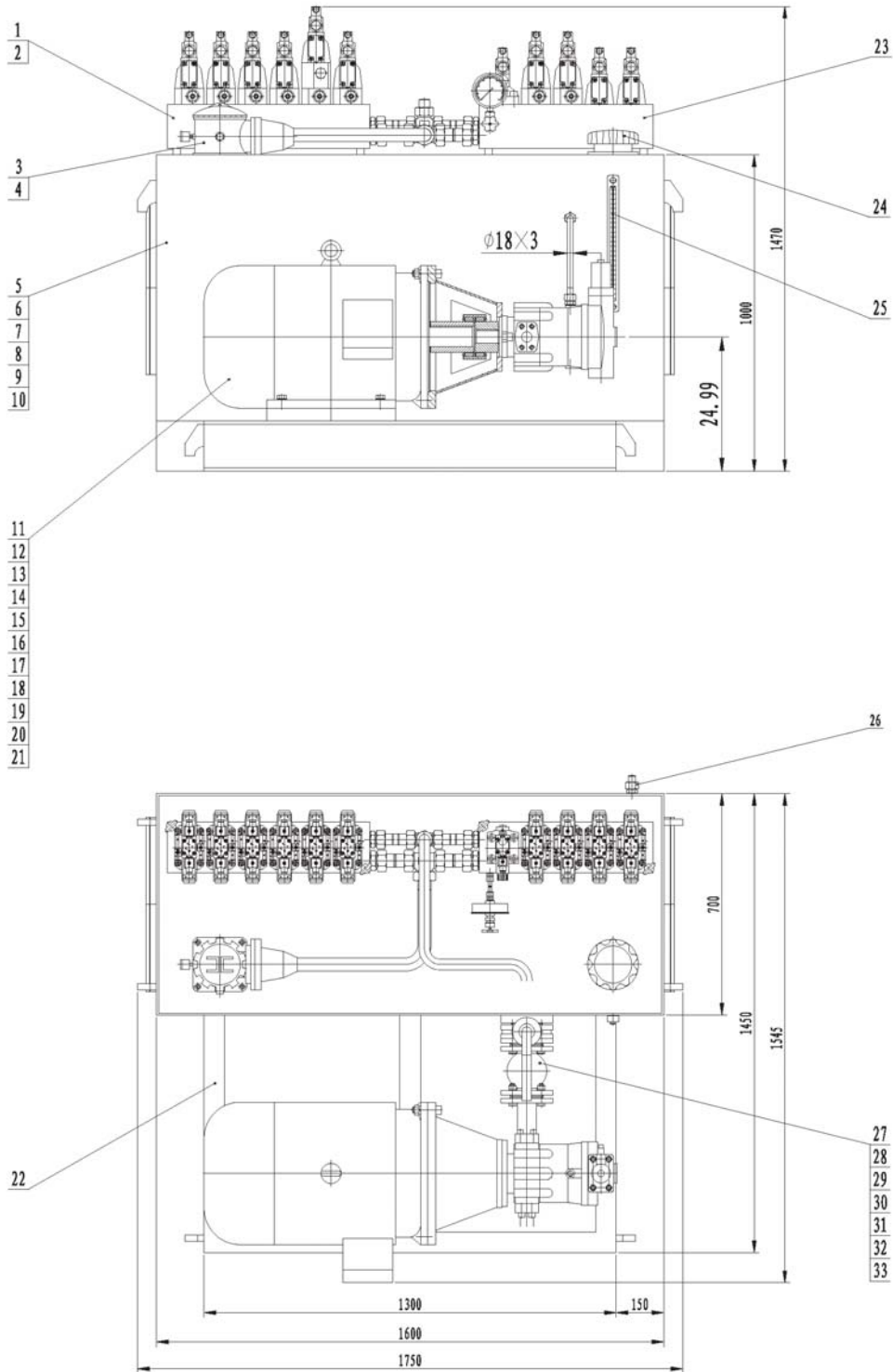
Hydraulic Unit Figure



主泵站总图

Layout of main power pack

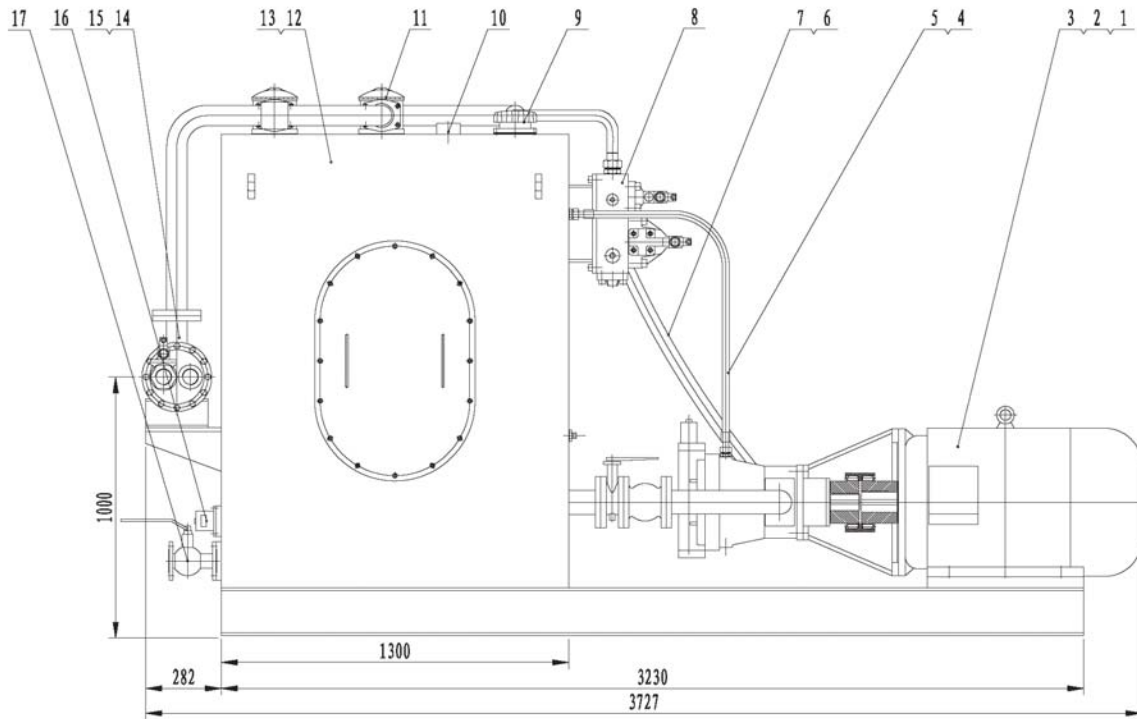
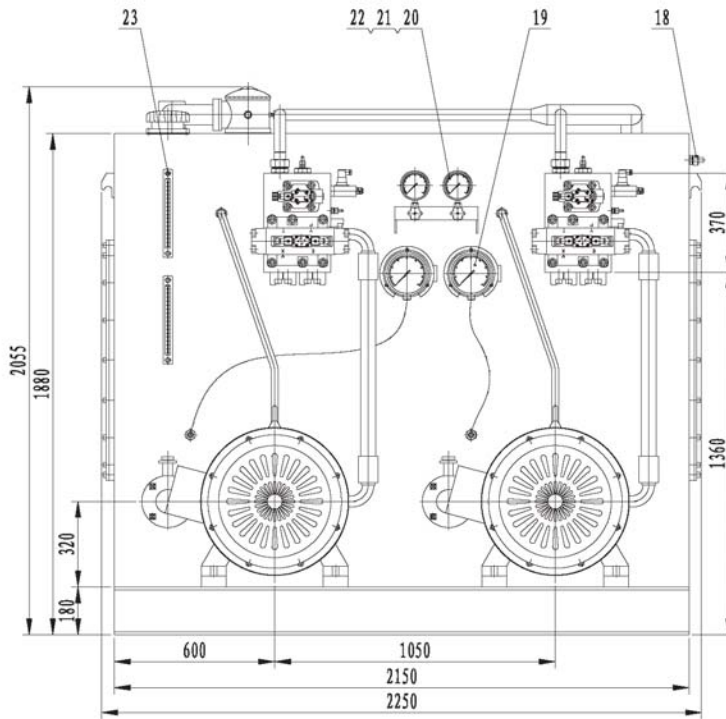
Hydraulic Unit Figure



打桩机液压站总装图

Power pack for piling machines

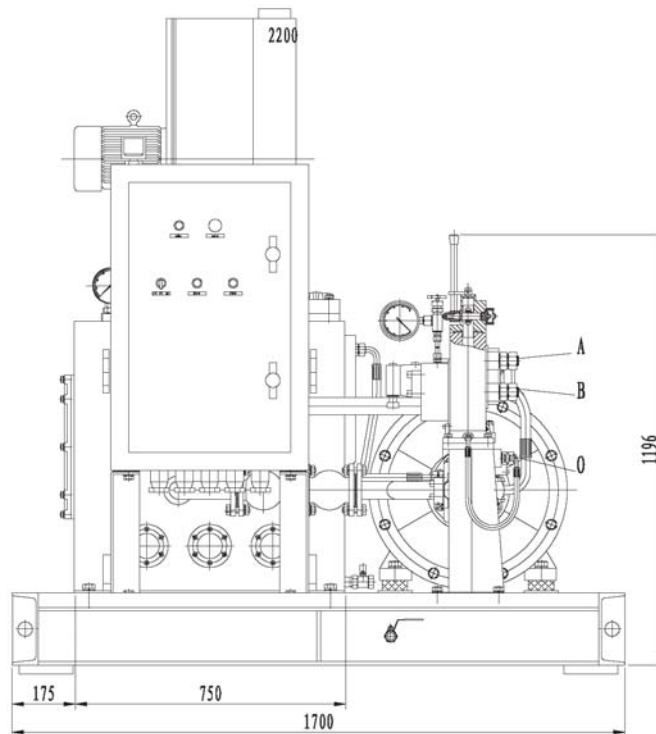
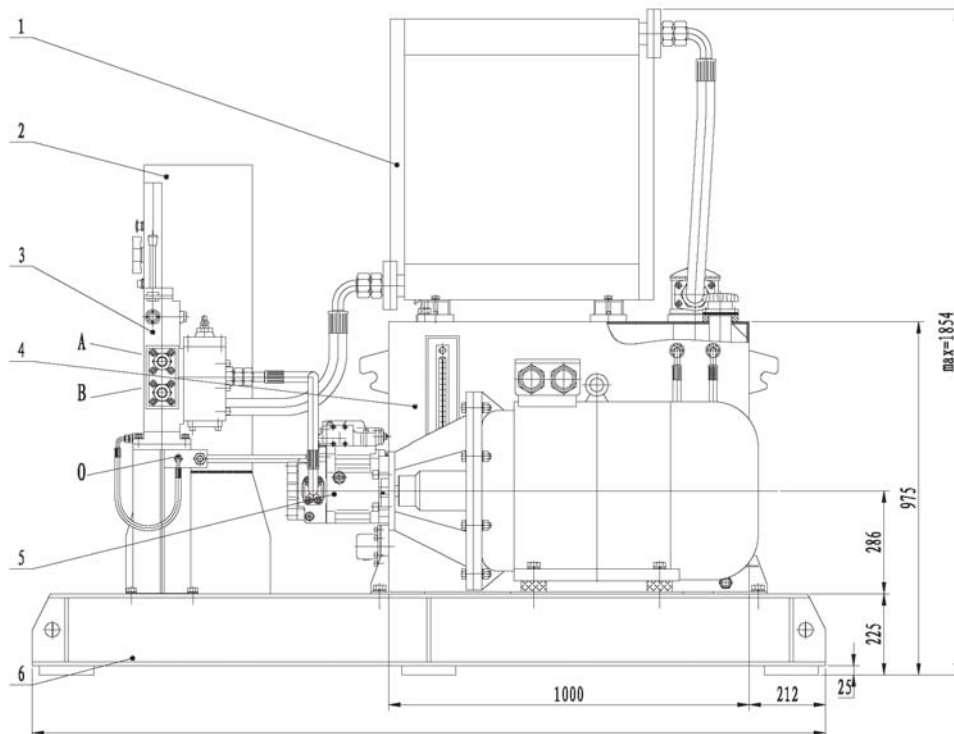
Hydraulic Unit Figure



刀轮式破碎机液压站布置图

Power pack for cutter wheel crushers

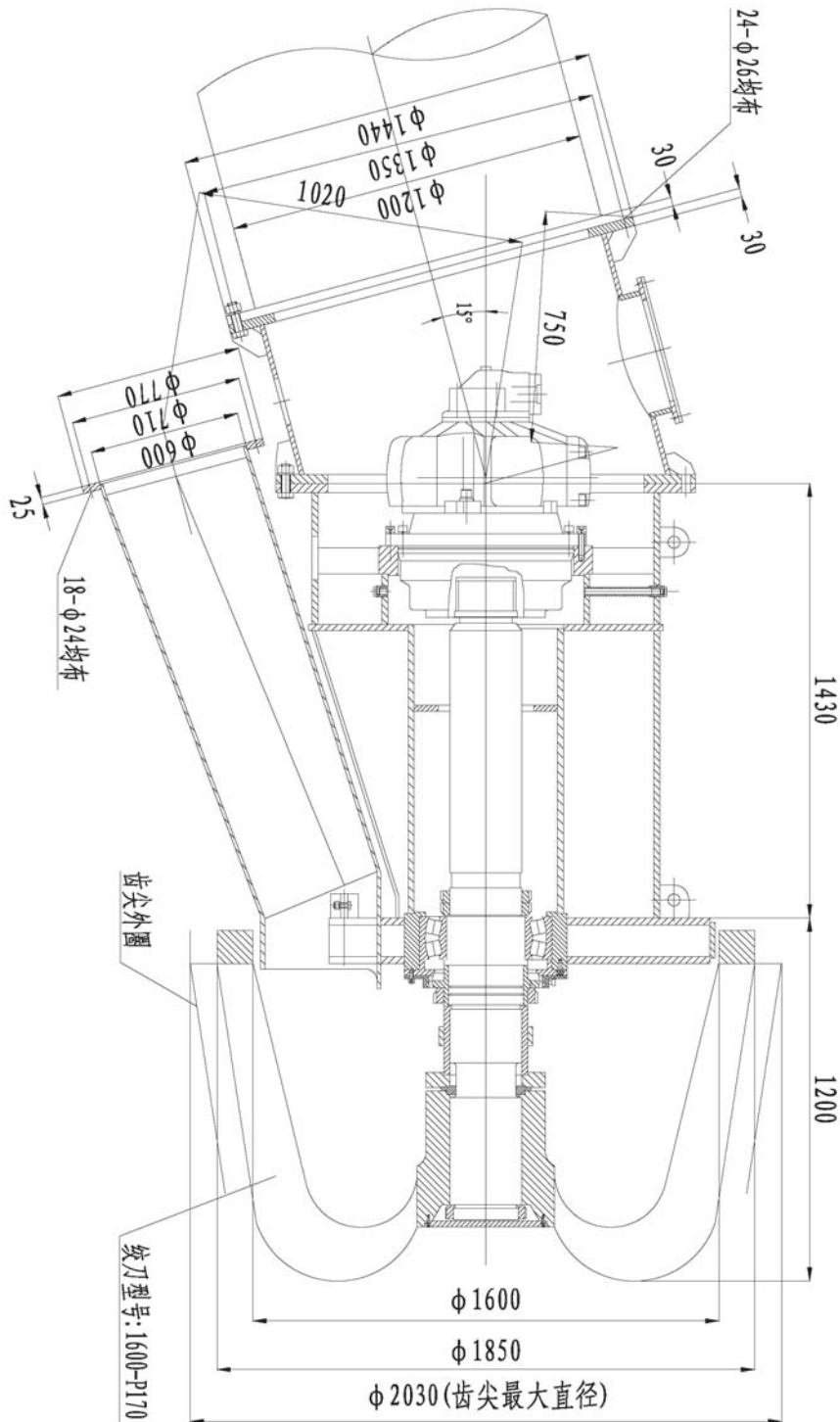
Hydraulic Unit Figure



16T/18T 液压绞车配套泵站布置图

Power pack for 16T/18T hydraulic winches

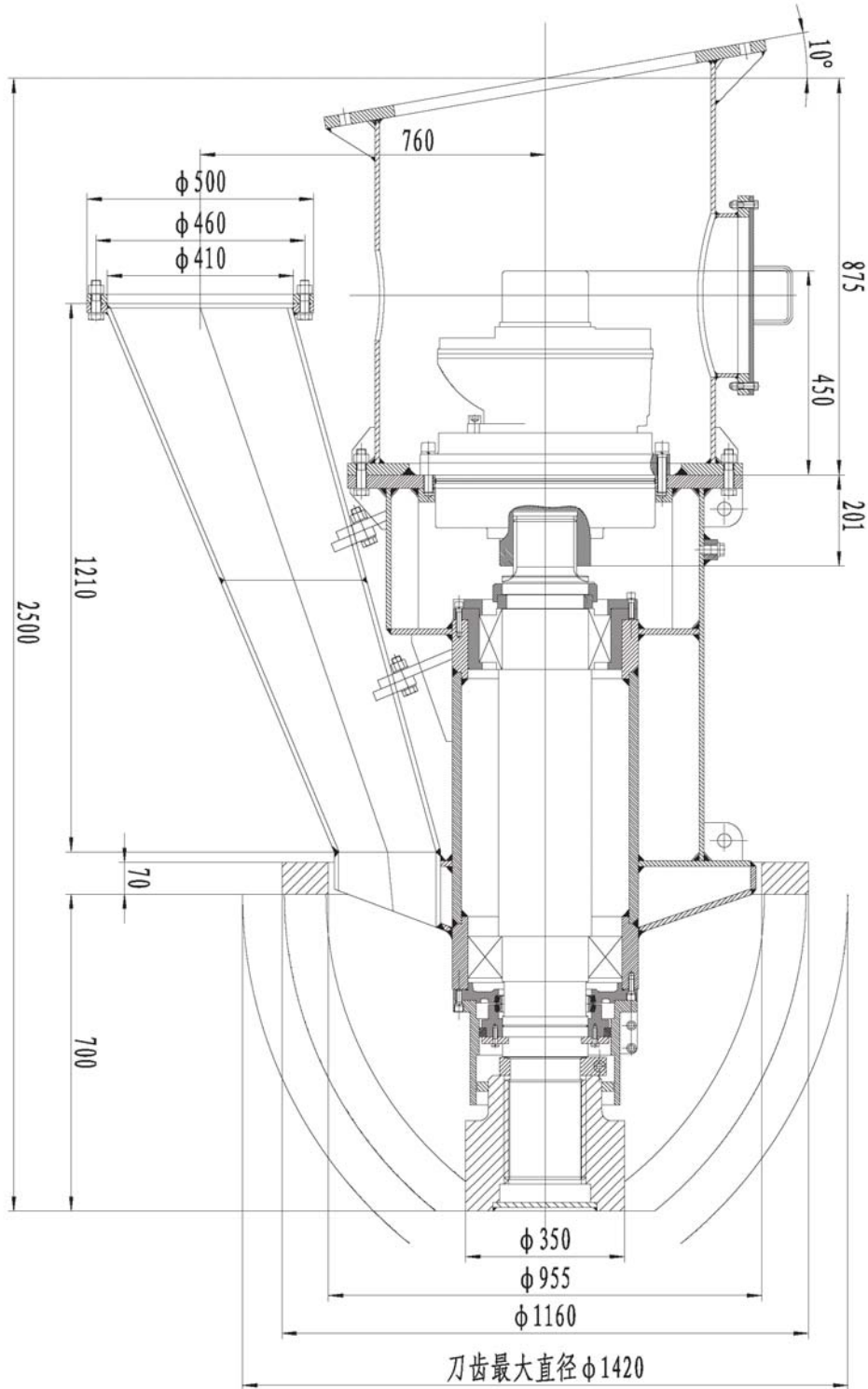
Hydraulic Unit Figure



54KN.m 铰刀及传动装置外形安装图

54KN.m reamer and transmission erection diagram

Hydraulic Unit Figure



YJ型整体式液压铰刀装置

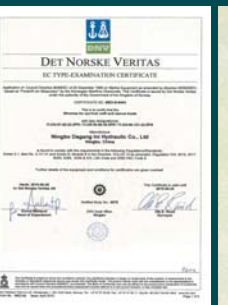
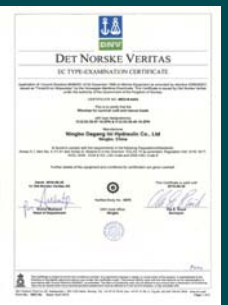
YJ type hydraulic reamer erection



意宁液压 INI HYDRAULIC



Company Certificate [企业证书]





意宁液压股份有限公司

宁波总部地址: 浙江省宁波市北仑区坝头西路 288 号
 邮编: 315806
 电话: 0574-86300164, 86302674, 86115076
 传真: 0574-86115082, 86115071
 E-mail: ini@china-ini.com
 Http: //www.china-ini.com

春晓分公司地址: 浙江省宁波市北仑区听海路 720 号
 镇海分公司地址: 浙江省宁波市镇海五里牌高科技园区

全资控股子公司:

宁波力士威迩液压传动有限公司
 地址: 浙江省宁波市镇海区镇骆东路 1801 号

江苏力劲重工有限公司
 地址: 江苏省金湖县经济开发区

欧美亚液压设备有限公司
 地址: 8 TEMASEK BOULEVARD #34-03 SUNTEC
 TOWER THREE, 新加坡 (邮编: 038988)

INI HYDRAULIC CO.,LTD

Headquarters add: No.288 Batou xi road, Beilun, Ningbo, Zhejiang, China
 Zipcode: 315806
 TEL: +86-574-86300164, 86302674, 86115076
 FAX: +86-574-86115082, 86115071
 E-mail: ini@china-ini.com
 Http: //www.china-ini.com

Chunxiao company add: No.720 Tinghai road, Beilun, Ningbo, Zhejiang, China
 Zhenhai company add: high-tech park, wulipai zhenhai, Ningbo, Zhejiang, China

Wholly Owned Subsidiary:

NINGBO LISHIWELL HYDRAULIC DRIVE CO.,LTD
 Add: No.1801 Zhenluo east road, Zhenhai, Ningbo, Zhejiang, China

JIANGSU LIKING HEAVY INDUSTRY CO.,LTD
 Add: Economic Development Zone, Jinghu, Jiangsu, China

OMAYA HYDRAULIC EQUIPMENT PET.LTD.
 Add: 8 Temasek Boulevard #34-03 Suntec Tower Three, Singapore
 (038988)

FOR EUROPE BUSINESS CONTACT:

DEGRA WINCHES BV - INI EUROPE
 J. van der Heydenstraat 9
 3281 NE Numansdorp - Rotterdam
 The Netherlands
 Contact person: Mr. J.W. de Graaf
 E-mail : jwdegraaf@degra.info
 Tel : +31-186-652189
 Fax. : +31-186-652370

FOR USA BUSINESS CONTACT:

Zhou Engineering International
 241 Ransom Road,
 Lancaster, NY 14086
 Contact person: Mr. Zhou/Mr. Zhan
 Phone: 1-716-656-1398
 Email: sales@zeiusa.com
 Website: www.zeiusa.com

FOR AUSTRALIA BUSINESS CONTACT:

INI-Australia
 28 Jessie Lee St, Henderson 6166
 Western Australia
 Contact person: Mr Charlie Tranchita
 Tel: +61-8-94947200 Fax: +61-8-94947299
 Email: info@ini-australia.com.au
 charlie@ini-australia.com.au
 Website: http://www.ini-australia.com.au

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