

H-HMB液压马达

H-HMB hydraulic motors



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H-HMB系列/H-HMB Series

产品特点 / Product Feature

H-HMB系列液压马达在吸取了国内外曲轴连杆式液压马达静压平衡优点的基础上，经过不断试验、改进、提高而成。该系列马达壳体强度高，内部动态元件承载能力大。由于采用静压平衡的形式，减少了内部摩擦力，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：

- 由于柱塞、连杆、偏心套设计成静压平衡，减少了连杆与偏心套的摩擦力及柱塞体的侧向力，降低了球铰副的接触比压，这些均减少了传动过程中的摩擦损失。因而EHMB系列液压马达具有高的机械效率及高的启动扭矩（启动时的机械效率0.90以上）的特点；
- 采用静压平衡技术的轴配流器，防止了配流器的倾斜，密封性能好，泄漏少，可在高压（最高压力可达29MPa）下进行连续工作；
- 密封环采用特殊材料及结构，减少了泄漏，提高了容积效率；
- 马达的主要传动件采用特殊材料和先进的热处理工艺，提高了整体使用寿命；
- 该系列马达的外形及安装尺寸与原装Staffa基本相同，性能参数与原装Staffa相近，是替代进口Staffa马达的理想选择。

由于H-HMB系列液压马达具有上述一系列特点，因而可广泛应用于塑料机械、船舶甲板机械、矿山建筑工程机械、起重运输设备、重型冶金机械、石油煤矿机械、机床、轻工设备、钻机等各种机械的液压传动系统中，特别适用于注塑机的螺杆驱动、提升绞盘、卷筒的驱动、各种回转机械的驱动等传动机械中。

H-HMB series' hydraulic motor is the achievement of our year's experience of hydrostatic balance technology. It features with higher intensity of casing and larger carrying capacity of internal dynamic components. Reduced internal friction, heat, and all negative effects are realized by hydrostatic balance technology.

Main Characteristics:

- The hydrostatic balance built between the piston, con-rod and eccentric sets reduces the friction between con-rod and eccentric sets, and also reduce the lateral friction on pistons, and contact pressure on ball the socket, thus to reduce the friction loss while on load. With above, EHMB series' motor features with high mechanical efficiency and starting torque (The Mechanical efficiency while starting is up to 90%);
- Hydrostatic balance shaft distributor prevents the shaft from tilting, thus to get excellent sealing, less leakage, and continuous running under high pressure(Max.pressure reaches to 29Mpa);
- Special materials and structure of seals reduce the leakage and improve the volumetric efficiency;
- Special materials and advanced treatment on main driving parts prolong the overall service life;
- Ideal replacement of STAFFA motor with interchangeable mounting and performance.

H-HMB series' motor is widely applied in all kinds of hydraulic transmission systems, such as plastic injection molding machines, deck machinery, construction machinery, hoist, transport vehicle, heavy metallurgical machinery, petroleum & mining machinery, light industrial equipments, drilling machinery, and so on.

HFM

HGM

QJM

H-HMB

H-HMC

HCA

HCB

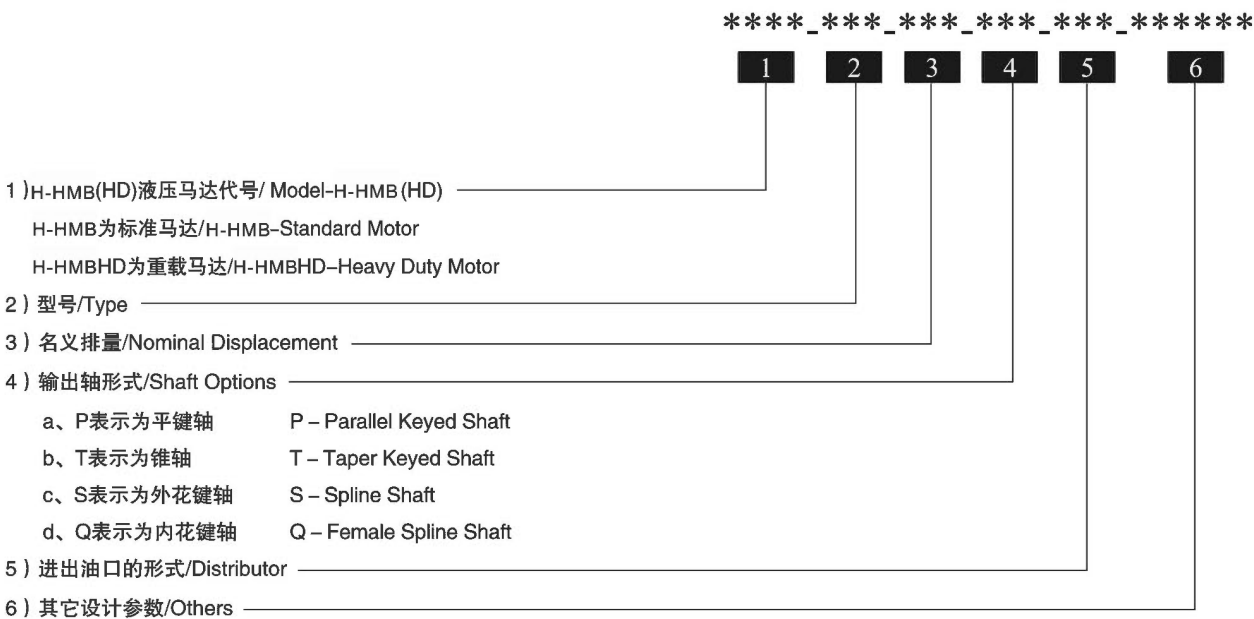
HMS

HA6V

HA2F

H-HMB系列/H-HMB Series

产品标识说明 / Ordering Code



型号举例 / Example

H-HMB	270	4300	P71	F03	**
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马达代号/ Model	H-HMB (HD)
型号/ Type	270
排量/ Displacement	4300ml/r
轴/ Shaft	P71
油口/ Distributor	F03
其他/ Others	

H-HMB系列/H-HMB Series

技术参数 / Technical Specification

型 号 Model	理论排量 Theory Displacement	压力/Pressure		扭矩/Torque		最高转速 Max. Speed	额定功率 Rated Power	重量 Weight
		额定压力 Rated Pressure	尖峰压力 Max. Pressure	额定扭矩 Rated Torque	单位扭矩 Unit Torque			
	ml/r	Mpa	Mpa	N.m	N.m/MPa	r/min	KW	Kg
H-HMB080-1000	988	23	29	3324	145	300	90	144
H-HMB080-1100	1088	23	29	3661	159	300	90	
H-HMB080-1250	1237	23	29	4162	181	280	90	
H-HMB080-1400	1385	23	29	4660	203	260	100	
H-HMB100-1600	1630	23	29	5484	238	240	100	144
H-HMB125-1400	1459	23	29	4909	213	300	95	235
H-HMB125-1600	1621	23	29	5454	237	270	95	
H-HMB125-1800	1864	23	29	6271	273	235	95	
H-HMB125-2000	2050	23	29	6820	297	220	95	
H-HMB200-2400	2432	23	29	8182	356	220	120	285
H-HMB200-2800	2757	23	29	9276	403	195	120	
H-HMB200-3100	3080	23	29	10362	451	175	120	
H-HMB270-3300	3291	23	29	11072	481	160	130	420
H-HMB270-3600	3575	23	29	12028	523	145	130	
H-HMB270-4000	3973	23	29	13367	581	130	130	
H-HMB270-4300	4313	23	29	14511	631	120	130	
H-HMB325-4500	4538	23	29	15268	664	115	130	430
H-HMB325-5000	4992	23	29	16795	730	105	130	
H-HMB325-5400	5310	23	29	17865	777	100	130	
H-HMB400-5500	5510	23	29	18135	788	120	175	495
H-HMB400-6000	5996	23	29	19735	858	120	175	
H-HMB400-6500	6483	23	29	21337	928	120	175	
H-HMB400-6800	6807	23	29	22404	974	120	175	

HFM

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QJM

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HCB

HMS

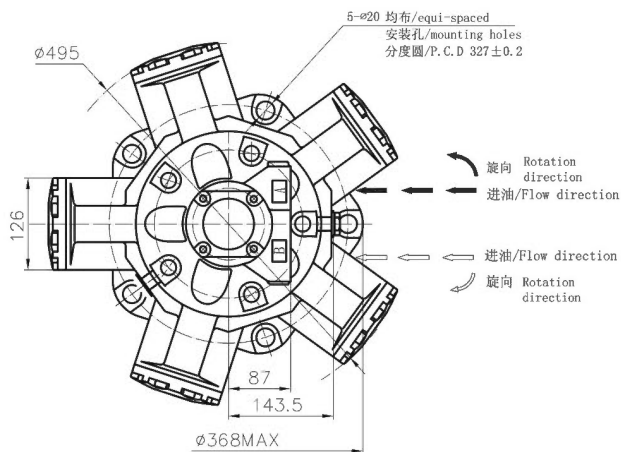
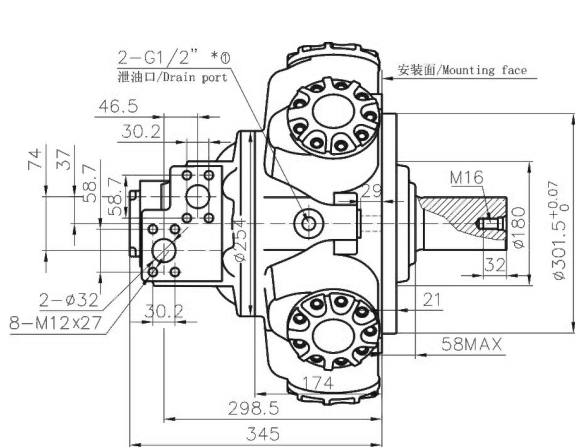
HA6V

HA2F

H-HMB080/100系列/H-HMB080/100 Series

H-HMB080 外形及安装尺寸/ H-HMB080 Installation Dimensions

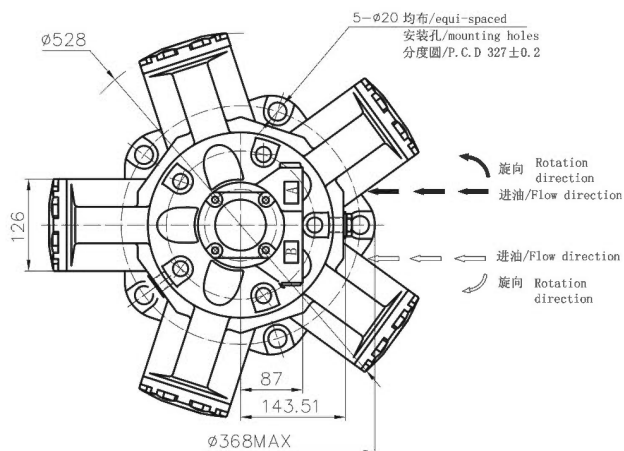
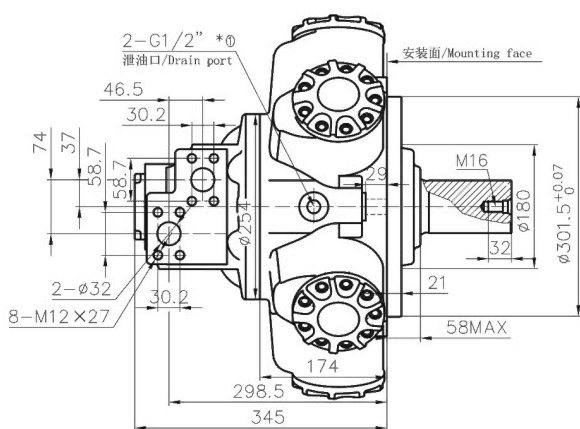
进油口为F01的安装尺寸/With F01 Distributor



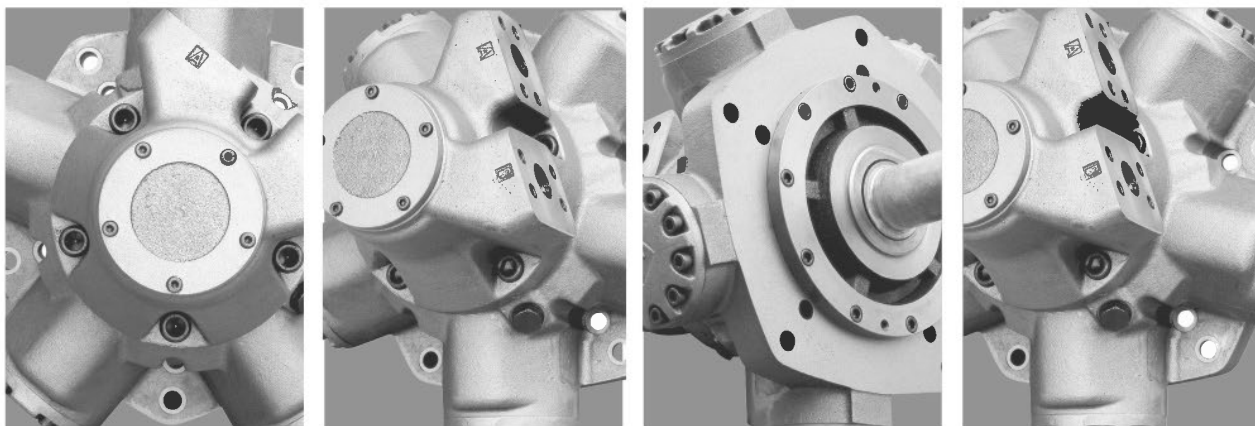
*①可选配UNF3/4"-16接头/Option:UNF3/4"-16

H-HMB100 外形及安装尺寸/ H-HMB100 Installation Dimensions

进油口为F01的安装尺寸/With F01 Distributor

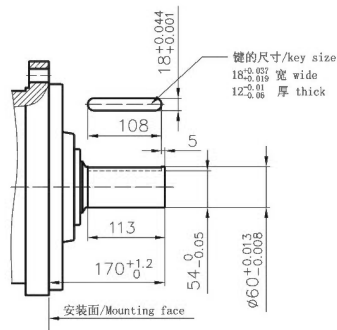


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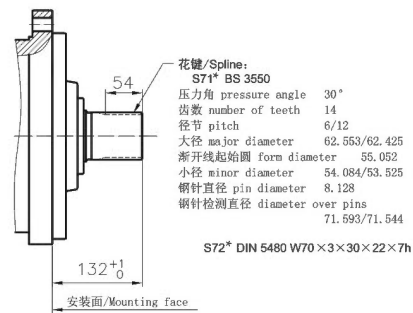


H-HMB080/100系列/H-HMB080/100 Series

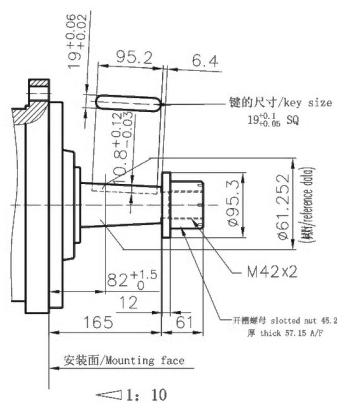
H-HMB080/H-HMB100-P72*



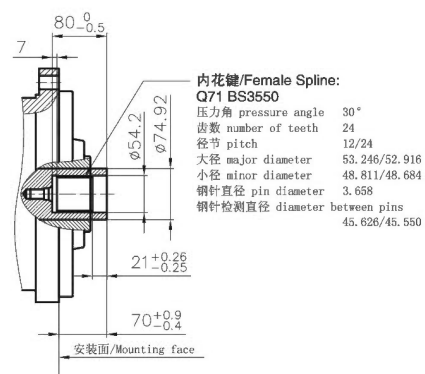
H-HMB/H-HMB100-S71*&S72*



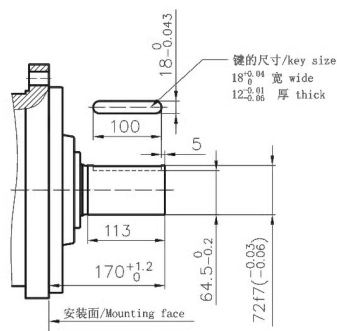
H-HMB080/H-HMB100-T71



H-HMB080/H-HMB100-Q71



H-HMB080/H-HMB100-P71



注释：右上角带*的轴为标准轴
 如：P72* 为标准平键轴 S71* 为标准花键轴

Notes: Shaft model with "*" is the standard shaft
 Example: P72*=Standard Parallel Keyed Shaft
 S71*=Standard Spline Shaft

HFM

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QJM

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HCA

HCB

HMS

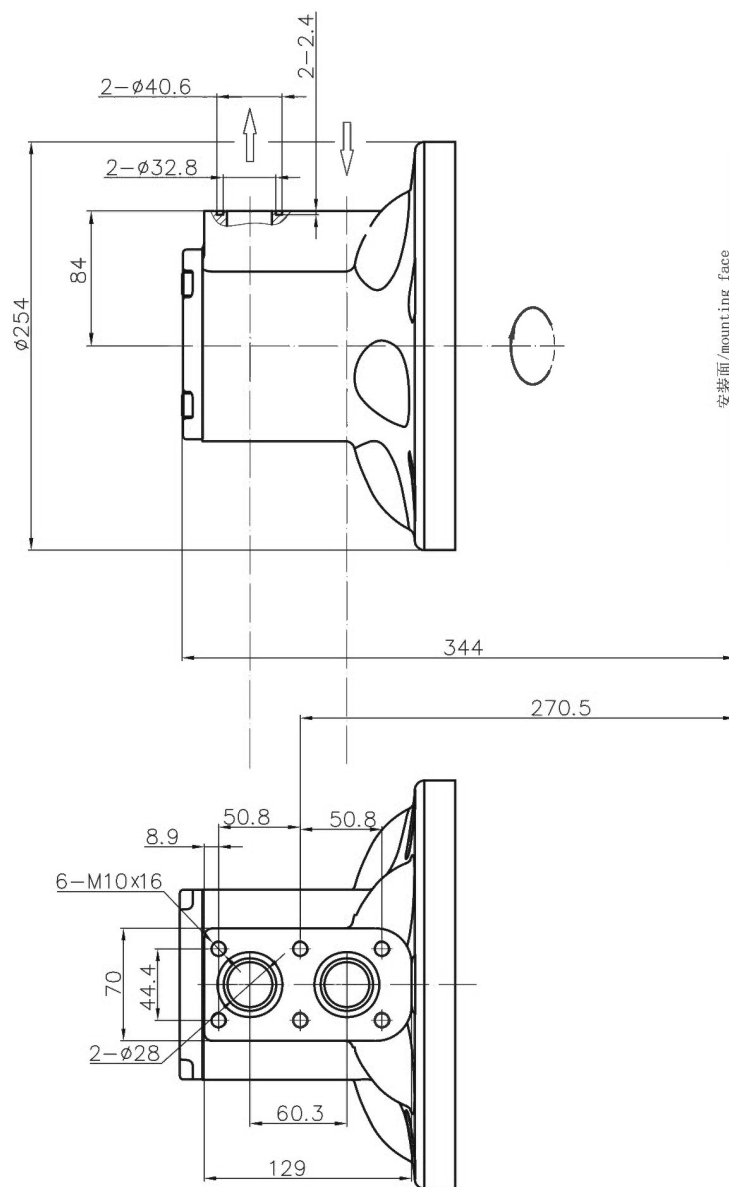
HA6V

HA2F

H-HMB080/100系列/H-HMB080/100 Series

H-HMB080/100 外形及安装尺寸/ H-HMB080/100 Installation Dimensions

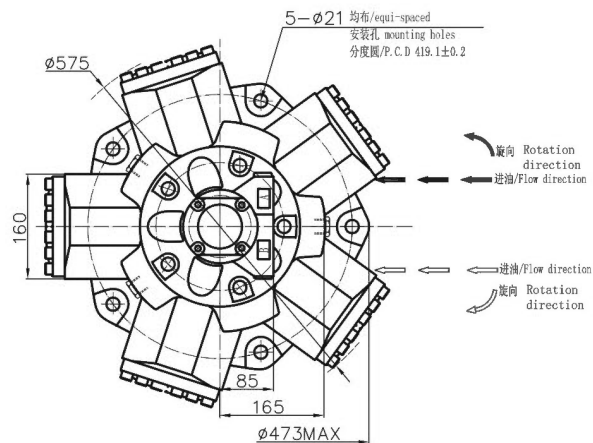
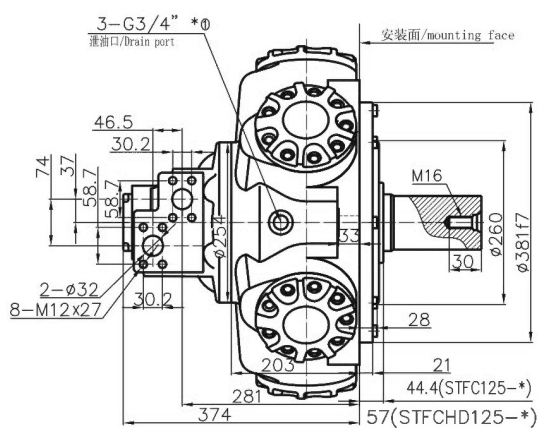
进出油口为F01B的安装尺寸/ F01B Distributor



H-HMB(HD)125系列/H-HMB(HD)125 Series

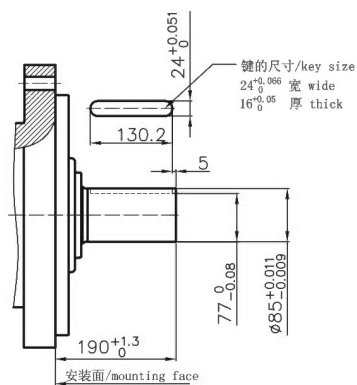
H-HMB(HD)125 外形及安装尺寸/H-HMB(HD)125 Installation Dimensions

进出油口为F01的安装尺寸/With F01 Distributor

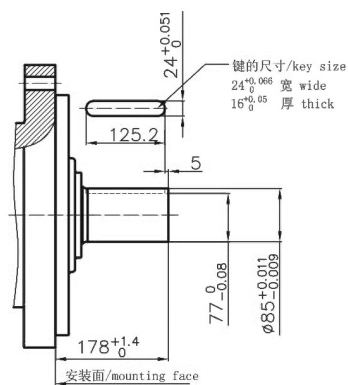


*①可选配UNF3/4"-16接头/Option: UNF3/4"-16

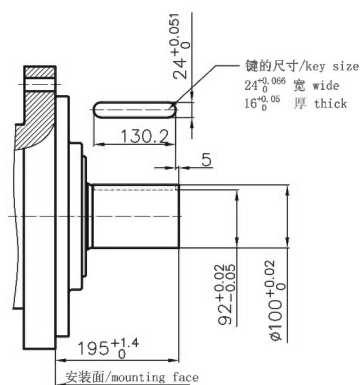
H-HMB125-P72



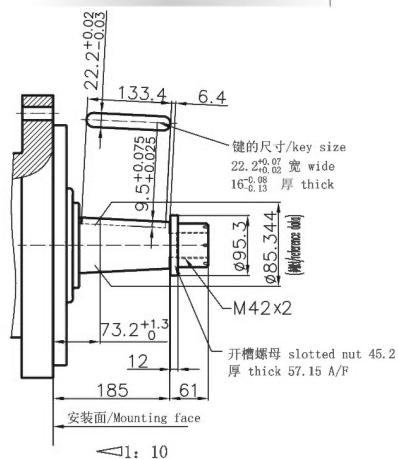
H-HMB125-P73*



H-HMB125-P74



H-HMB125-T71



HFM

HGM

QJM

H-HMB

H-HMC

HCA

HCB

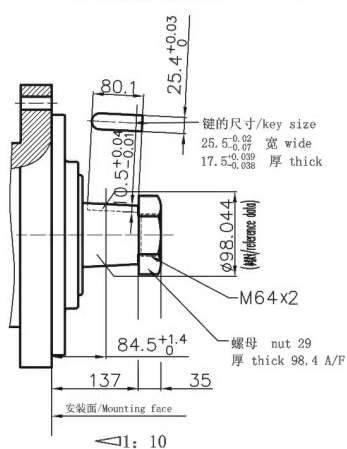
HMS

HA6V

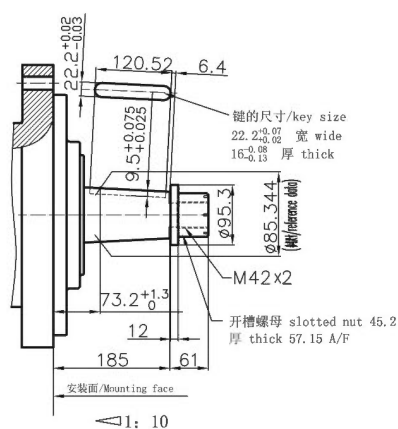
HA2F

H-HMB(HD)125系列/H-HMB(HD)125 Series

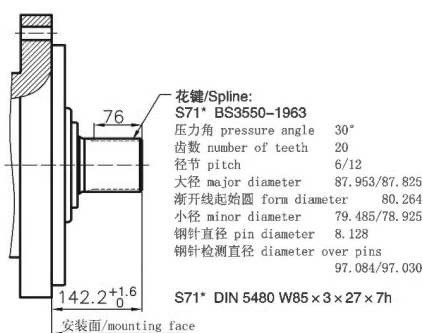
H-HMBHD125-T72



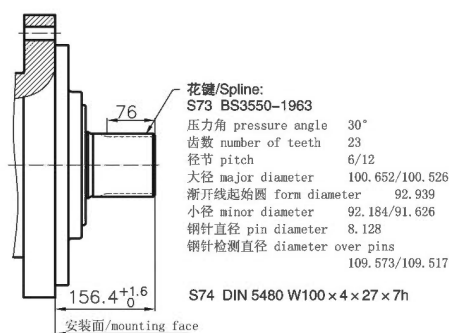
H-HMBHD125-T73



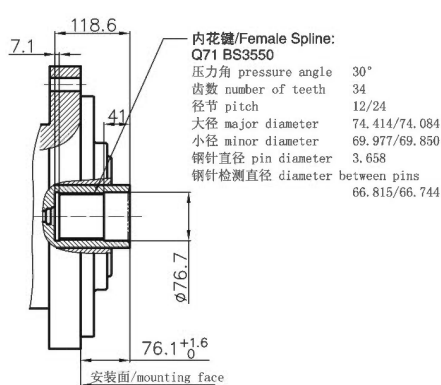
H-HMB125-S71*&72*



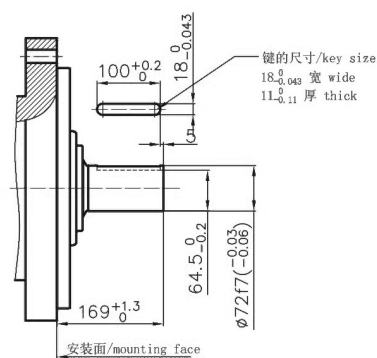
H-HMB125-S73 & 74



H-HMBHD125-Q71



H-HMB125-P71

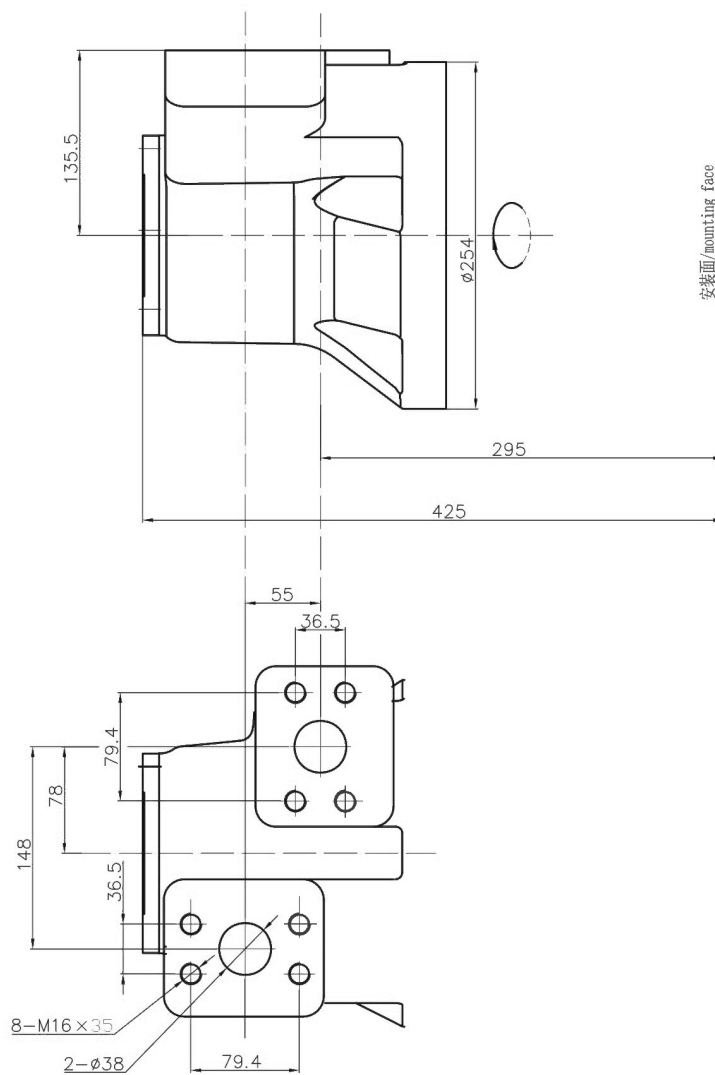


注释：右上角带*的轴为标准轴
如：P73*为标准平键轴 S71*为标准花键轴

Notes: Shaft model with "*" is the standard shaft
Example: P73*=Standard Parallel Keyed Shaft
S71*=Standard Spline Shaft

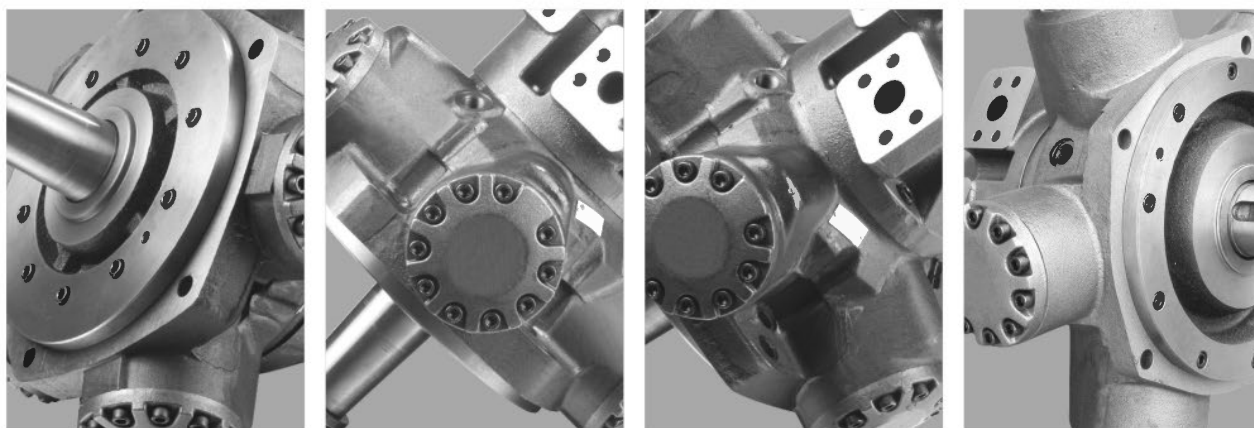
H-HMB(HD)125 外形及安装尺寸/ H-HMB(HD)125 Installation Dimensions

进出油口为F02的安装尺寸/ F02 Distributor



H-HMB

H-HMB(HD)125 外形及安装尺寸/ H-HMB(HD)125 Installation Dimensions

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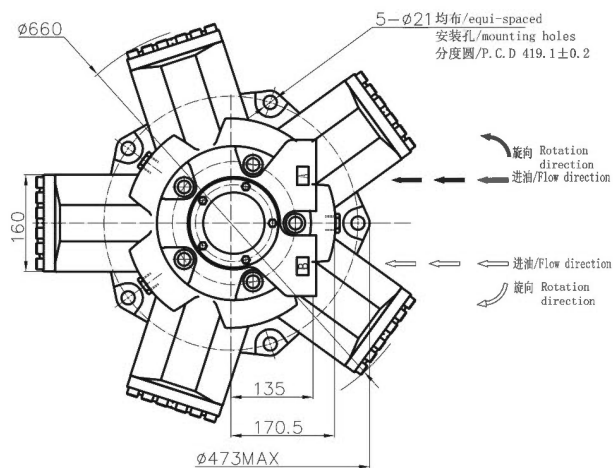


H-HMB(HD)200 外形及安装尺寸/ H-HMB(HD)200 Installation Dimensions

Technical drawing of a 3-ported hydraulic valve assembly. The drawing shows a side view of the valve with various dimensions and labels.

Labels and Dimensions:

- 3-G3/4" * Φ (Port size)
- 泄油口/Drain port (Drain port)
- 安装面/mounting face (Mounting face)
- 55 (Dimension)
- 36.5 (Dimension)
- 79.4 (Dimension)
- 148 (Dimension)
- 78 (Dimension)
- 36.5 (Dimension)
- 8-M16 $\times$ 35 (Bolt specification)
- 2- Φ 38 (Bore size)
- 79.4 (Dimension)
- Φ 25.4 (Bore size)
- 363 (Dimension)
- 438 (Dimension)
- M16 (Bolt specification)
- 35 (Dimension)
- 30 (Dimension)
- Φ 21.5 (Bore size)
- 23 (Dimension)
- 27 (Dimension)
- 32(STFC200-*) (Valve model)
- 44.4(STFCHD200-*) (Valve model)
- 27 (Dimension)
- 216 (Dimension)



*①可选配UNF3/4"-16接头/Option: UNF3/4"-16

Technical drawing of a shaft-hub assembly with a key. The drawing shows a shaft with a keyway and a hub with a key. Dimensions are given in millimeters.

- Key width: $24^{+0.051}_0$
- Key height: 125.2
- Key length: 5
- Shaft diameter: $77^{+0.01}_{-0.09}$
- Hub bore diameter: $85^{+0.011}_{-0.009}$
- Mounting face: 安装面/mounting face

Technical drawing of a shaft with a key. The drawing shows a shaft with a keyway. Dimensions are given in millimeters. The key width is 16^{+0.05}₋₀ mm. The key height is 24^{+0.066}₋₀ mm. The key length is 130.2 mm. The key is seated in a keyway that is 5 mm deep. The shaft diameter is 100^{+0.02}₋₀ mm. The shaft length is 182^{+1.6}₋₀ mm. The mounting face is indicated.

22.2 +0.02 / -0.03

133.3

6.4

5 +0.075 / -0.025

9

12

60.7 +1 / 0

172

61

9.5.3

85.344

78.5

键的尺寸/key size

22.2 +0.02 / -0.02

16.3 +0.08 / -0.13

厚 thick

开槽螺母 slotted nut 4.2

厚 thick 57.15 A/F

M42x2

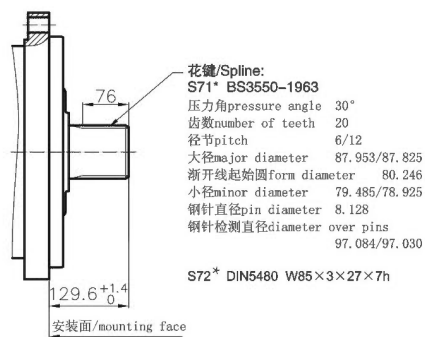
安装面/mounting face

≠ 1: 10

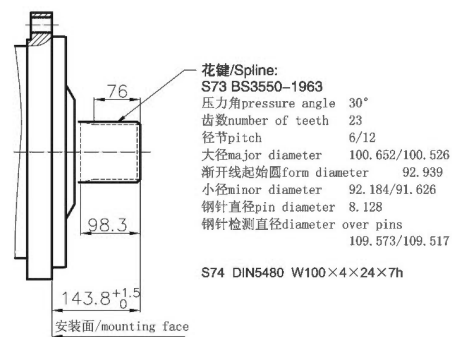
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H-HMB(HD)200系列/H-HMB(HD)200 Series

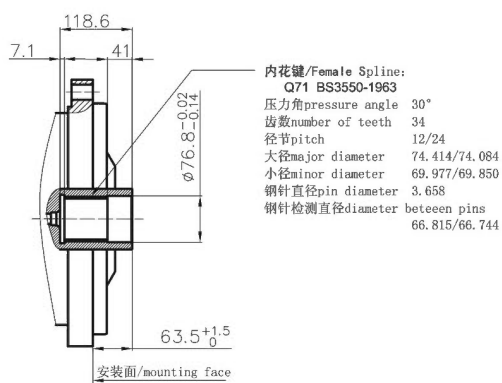
H-HMB200-S71* & S72*



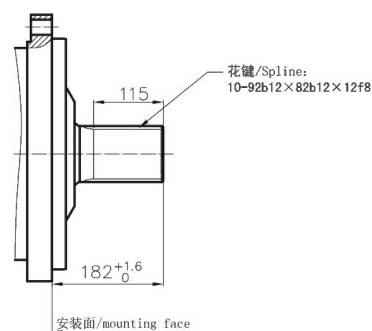
H-HMBHD200-S73 & S74



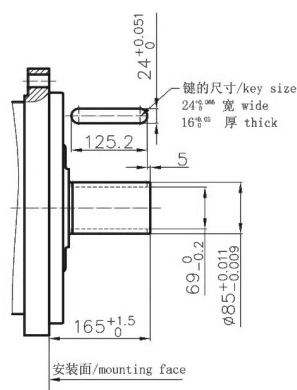
H-HMBHD200-Q71



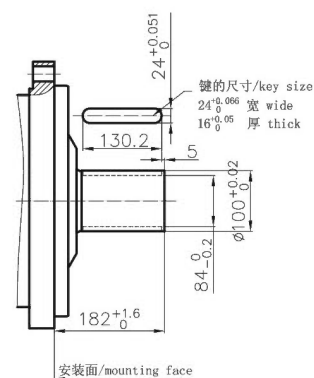
H-HMBHD200-S77



H-HMB200-P72



H-HMBHD200-P74



HFM

HGM

QJM

H-HMB

H-HMC

HCA

HCB

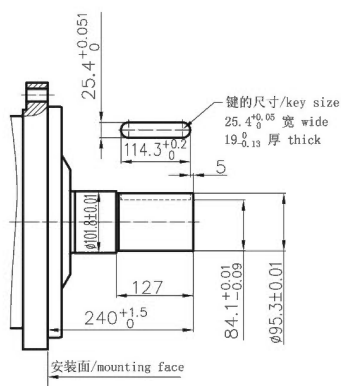
HMS

HA6V

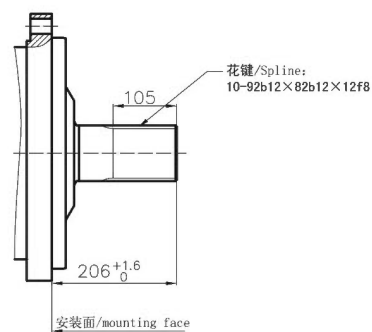
HA2F

H-HMB(HD)200系列/H-HMB(HD)200 Series

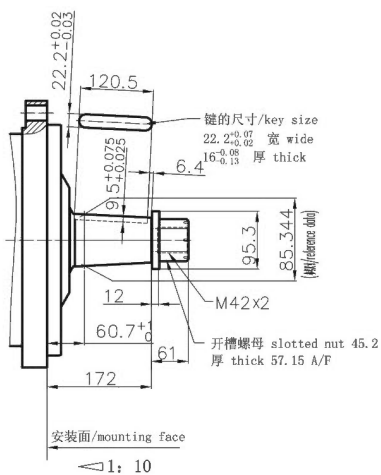
H-HMBHD200-P75



H-HMBHD200-S76

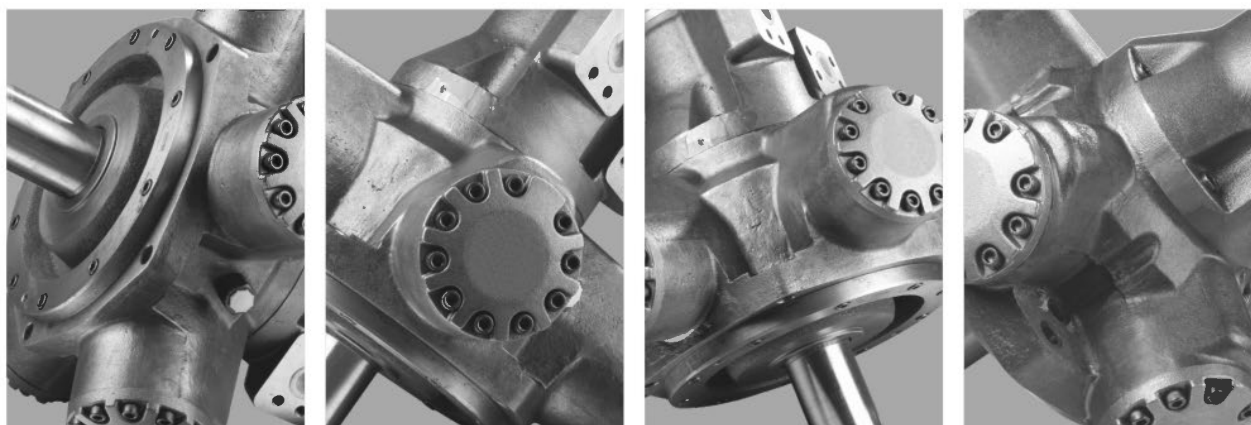


H-HMBHD200-T73



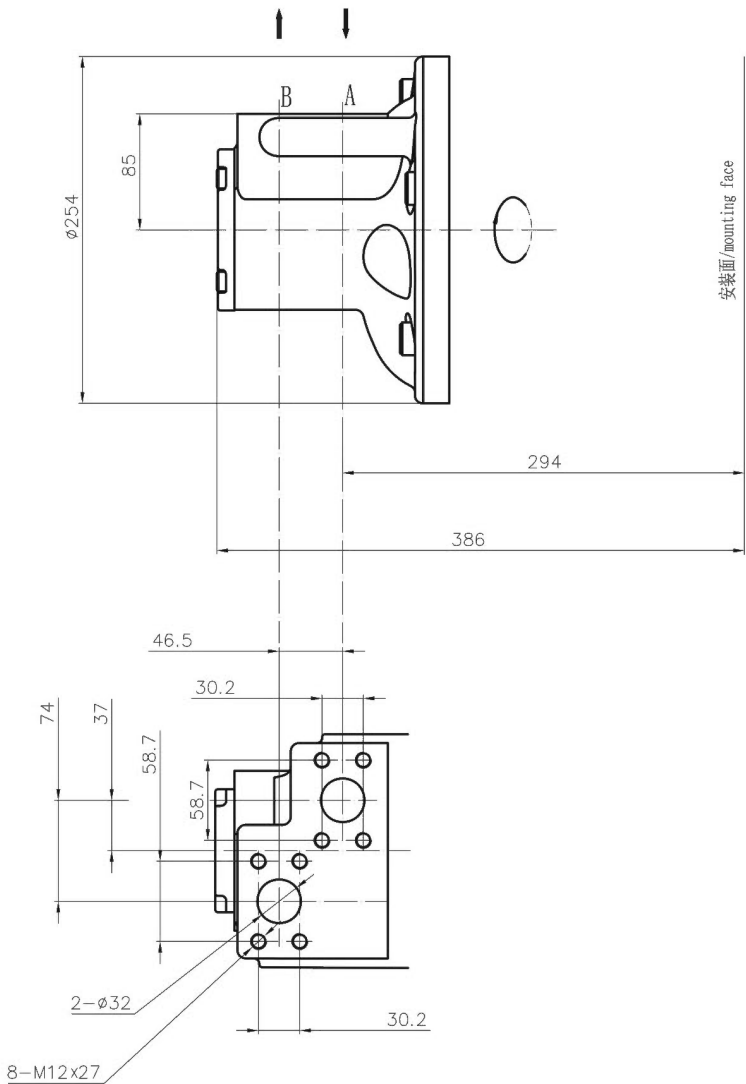
注释：右上角带* 的轴为标准轴
如：P73* 为标准平键轴 S71*为标准花键轴

Notes: Shaft model with "*" is the standard shaft
Example: P73*=Standard Parallel Keyed Shaft
S71*=Standard Spline Shaft

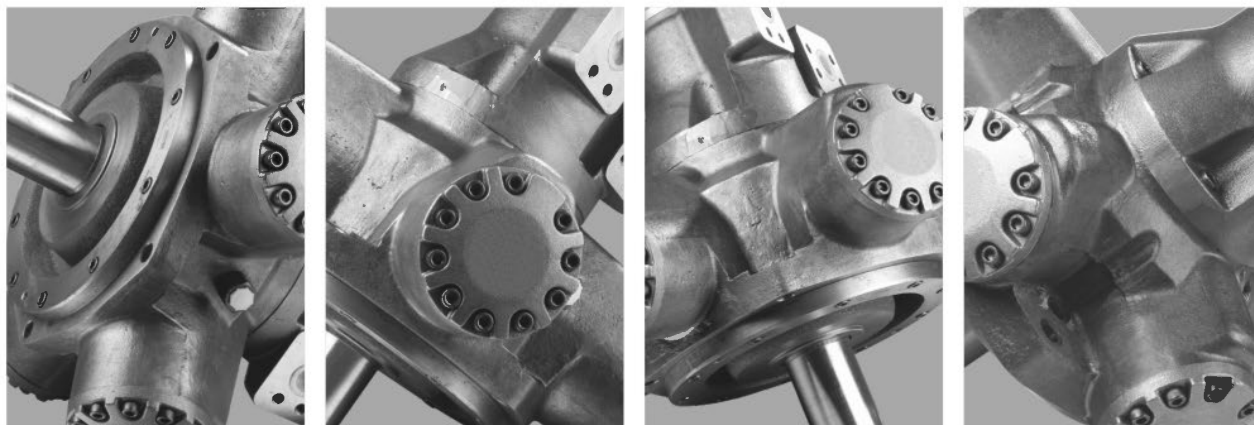


H-HMB(HD)200 外形及安装尺寸/ H-HMB(HD)200 Installation Dimensions

进出油口为F01的安装尺寸/ F01 Distributor



H-HMB(HD)200 外形及安装尺寸/ H-HMB(HD)200 Installation Dimensions

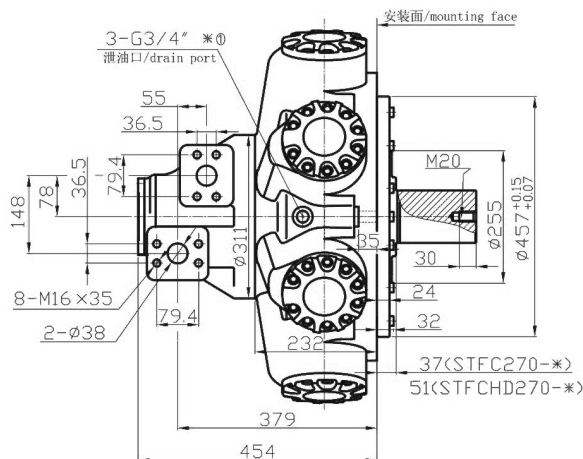
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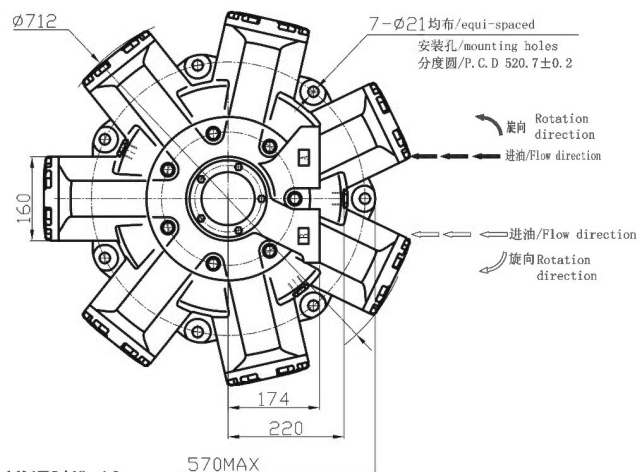
H-HMB(HD)270/325系列/H-HMB(HD)270/325 Series

H-HMB(HD)270 外形及安装尺寸/H-HMB(HD)270 Installation Dimensions

进出油口为F03的安装尺寸/With F03 Distributor

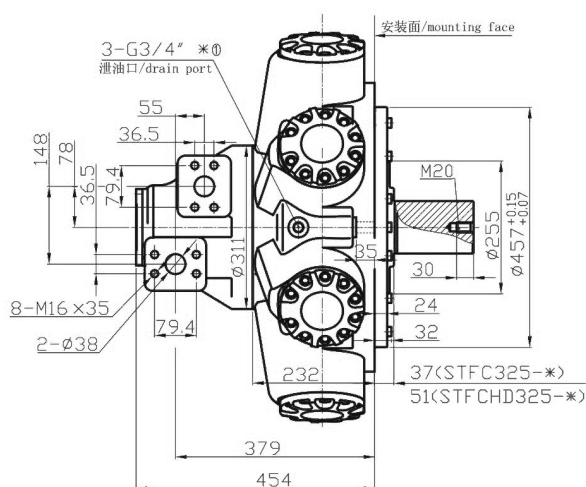


*①可选配UNF3/4"-16接头/Option: UNF3/4"-16

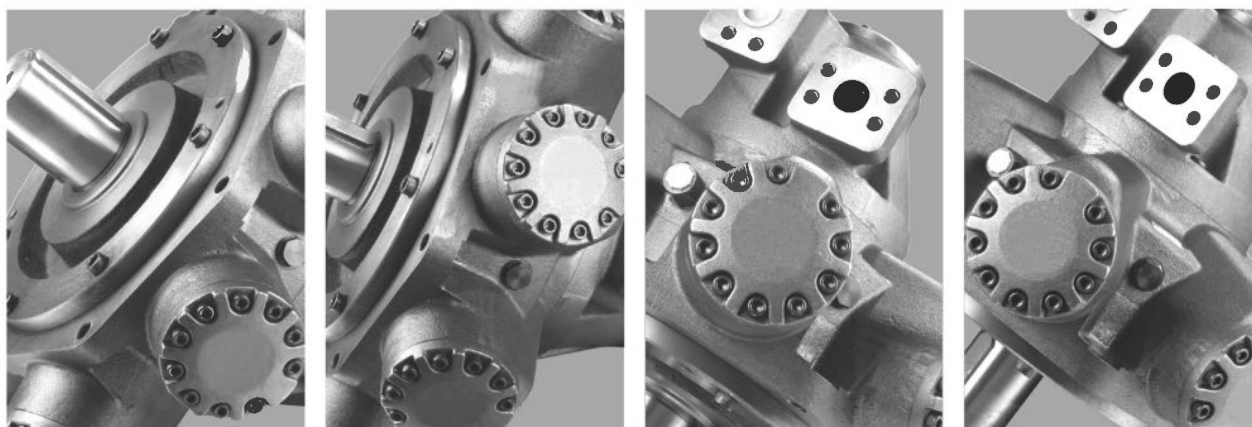
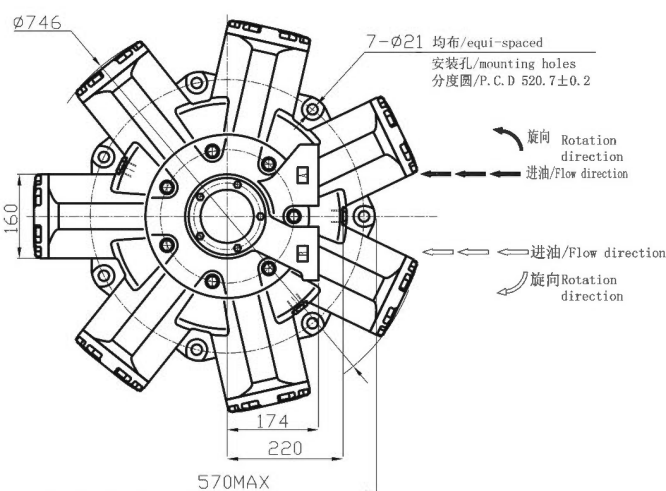


H-HMB(HD)325 外形及安装尺寸/H-HMB(HD)325 Installation Dimensions

进出油口为F03的安装尺寸/With F03 Distributor

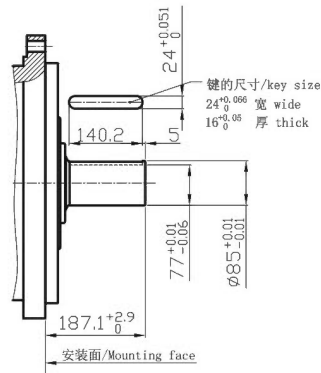


*①可选配UNF3/4"-16接头/Option: UNF3/4"-16

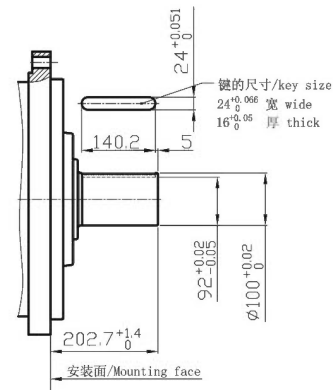


H-HMB(HD)270/325系列/H-HMB(HD)270/325 Series

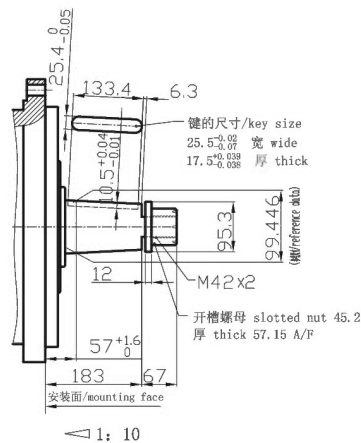
H-HMB270H-HMB325-P73



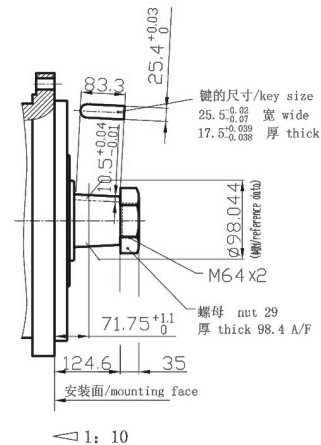
H-HMB270H-HMB325-P74*



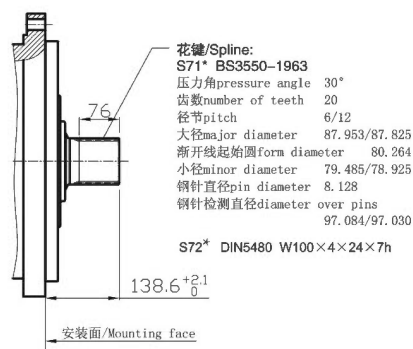
H-HMB270H-HMB325-T71



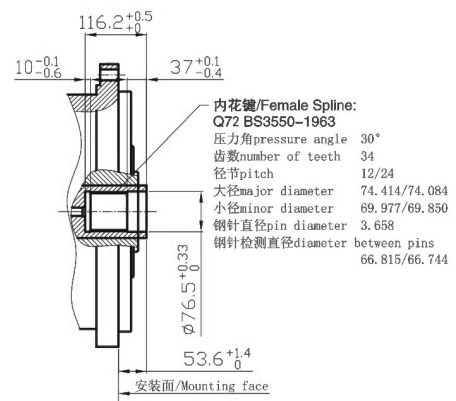
H-HMB270H-HMB325-T72



H-HMB270H-HMB325-S71*&S72*



H-HMB270H-HMB325-Q72



注释: 右上角带* 的轴为标准轴
 如: P74* 为标准平键轴 S71* 为标准花键轴

Notes: Shaft model with "*" is the standard shaft
 Example: P74*=Standard Parallel Keyed Shaft
 S71*=Standard Spline Shaft

HFM

HGM

QJM

H-HMB

H-HMC

HCA

HCB

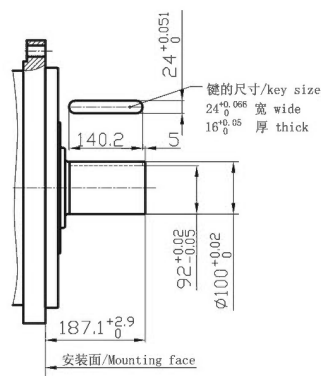
HMS

HA6V

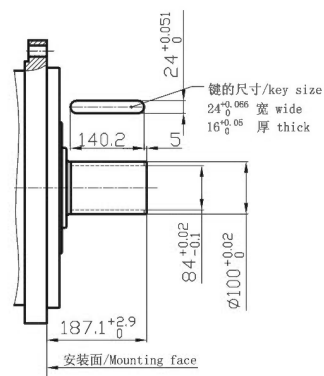
HA2F

H-HMB(HD)270/325系列/H-HMB(HD)270/325 Series

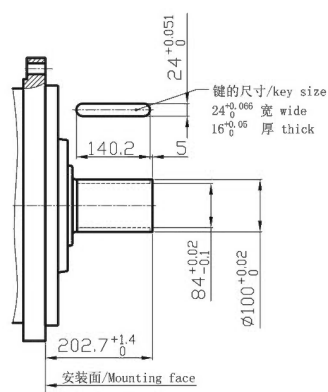
H-HMB270H-HMB325-P71



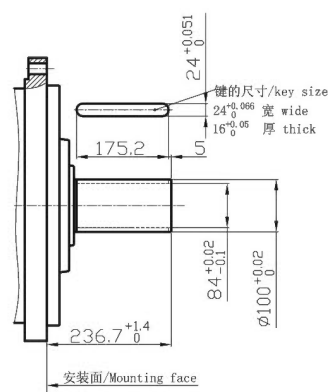
H-HMB270H-HMB325-P72



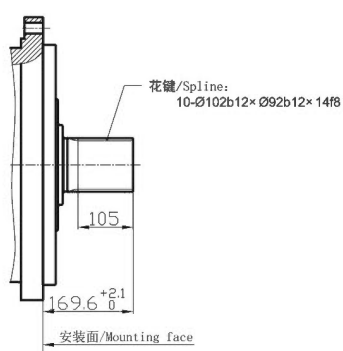
H-HMBHD270H-HMBHD325-P75



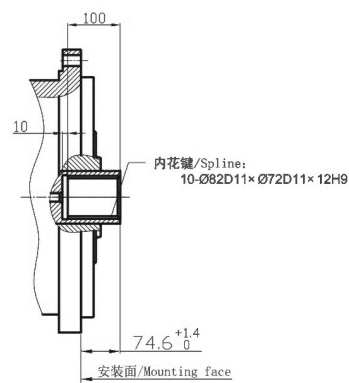
H-HMBHD270H-HMBHD325-P77



H-HMB270H-HMB325-S73



H-HMB270H-HMB325-Q71



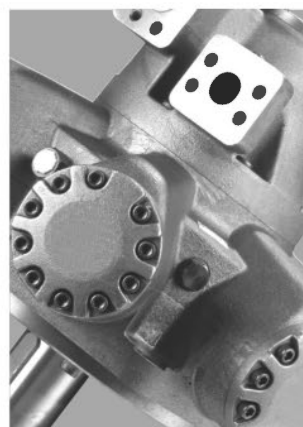
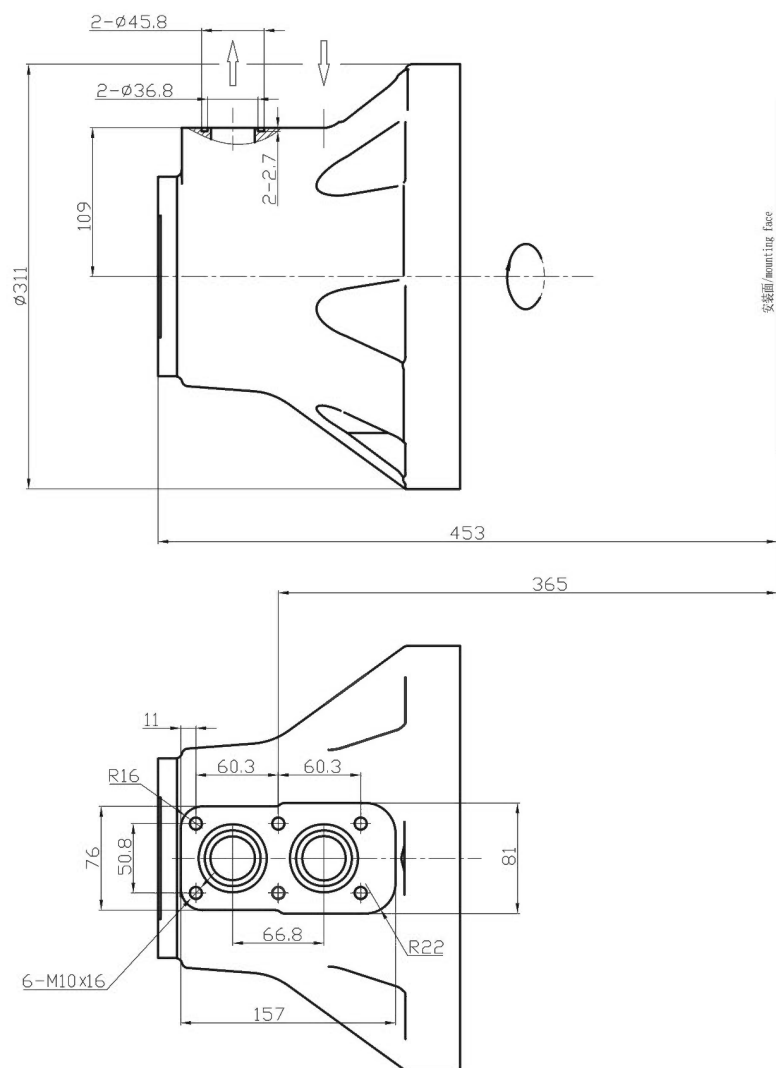
注释：右上角带* 的轴为标准轴
 如：P74* 为标准平键轴 S71*为标准花键轴

Notes: Shaft model with "*" is the standard shaft
 Example: P74*=Standard Parallel Keyed Shaft
 S71*=Standard Spline Shaft

H-HMB(HD)270/325系列/H-HMB(HD)270/325 Series

H-HMB(HD)270/325 外形及安装尺寸/ H-HMB(HD)270/325 Installation Dimensions

进出油口为F03B的安装尺寸/ F03B Distributor



HFM

HGM

QJM

H-HMB

H-HMC

HCA

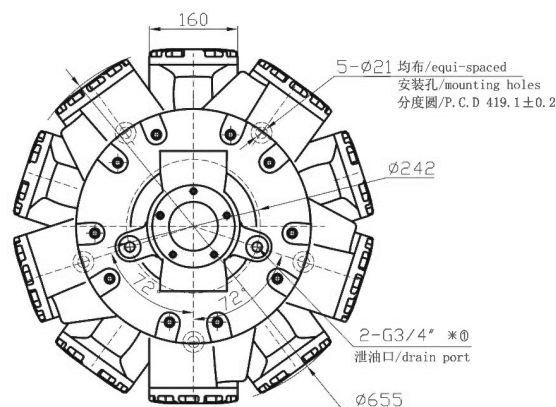
HCB

HMS

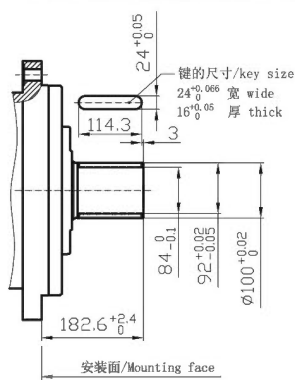
HA6V

HA2F

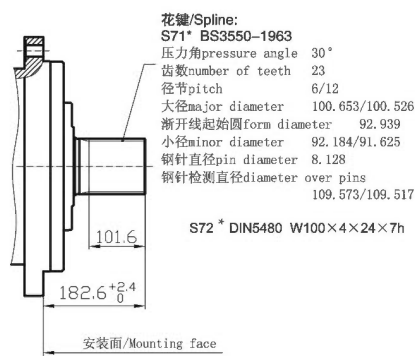
H-HMB(HD)400 外形及安装尺寸/ H-HMB(HD)400 Installation Dimensions

[illegible]

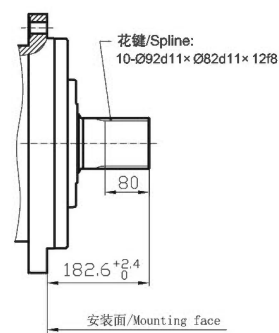
H-HMBHD400-P71*



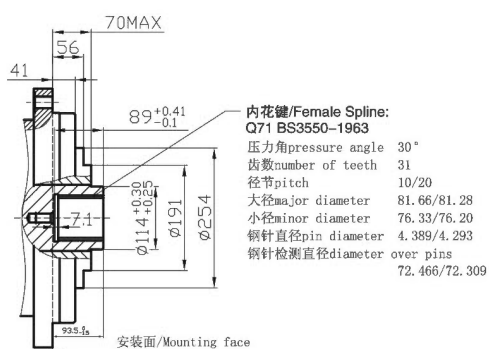
H-HMBHD400-S71*&S72*



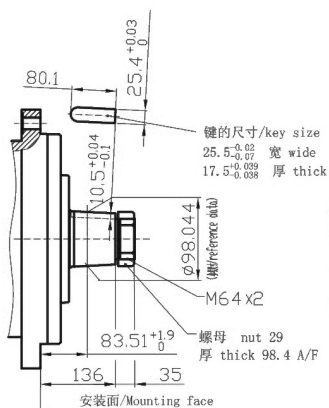
H-HMBHD400-S73



H-HMBHD400-Q71



H-HMBHD400-T71



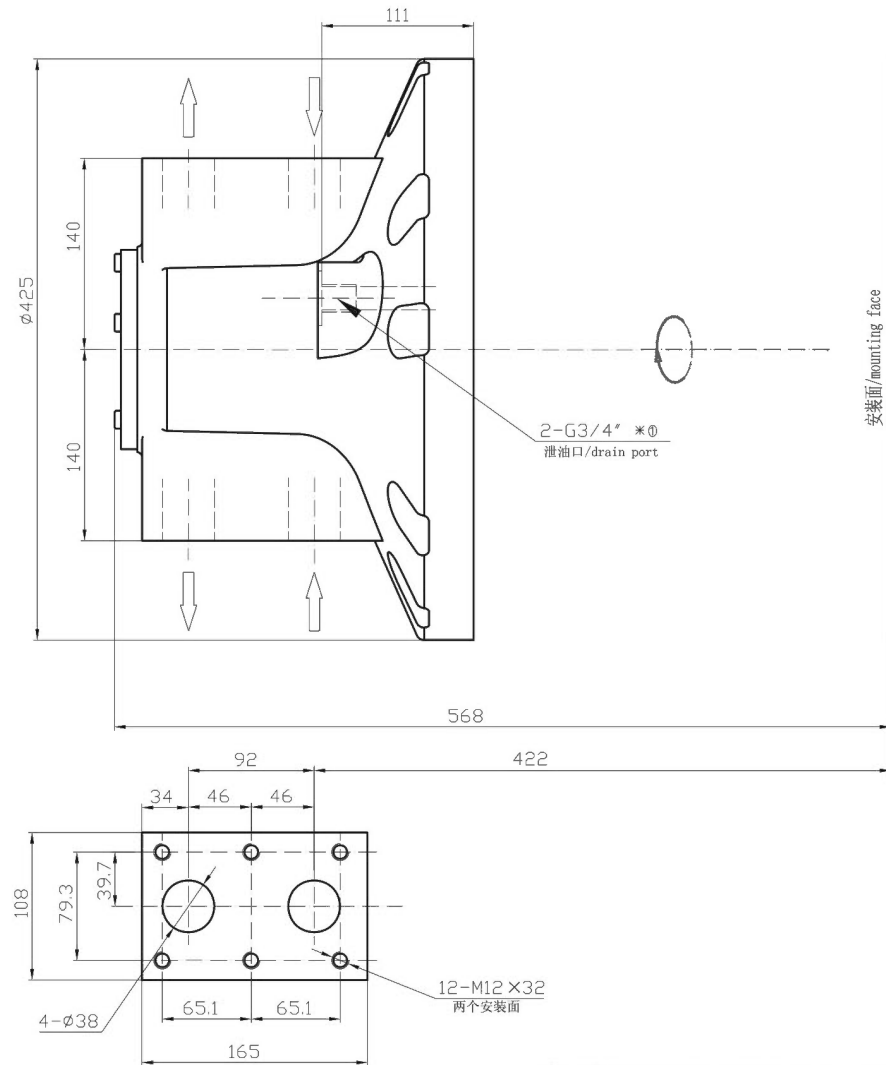
注释：右上角带* 的轴为标准轴
如：P71* 为标准平键轴 S71* 为标准花键轴

Notes: Shaft model with "*" is the standard shaft
Example: P71*=Standard Parallel Keyed Shaft
S71*=Standard Spline Shaft

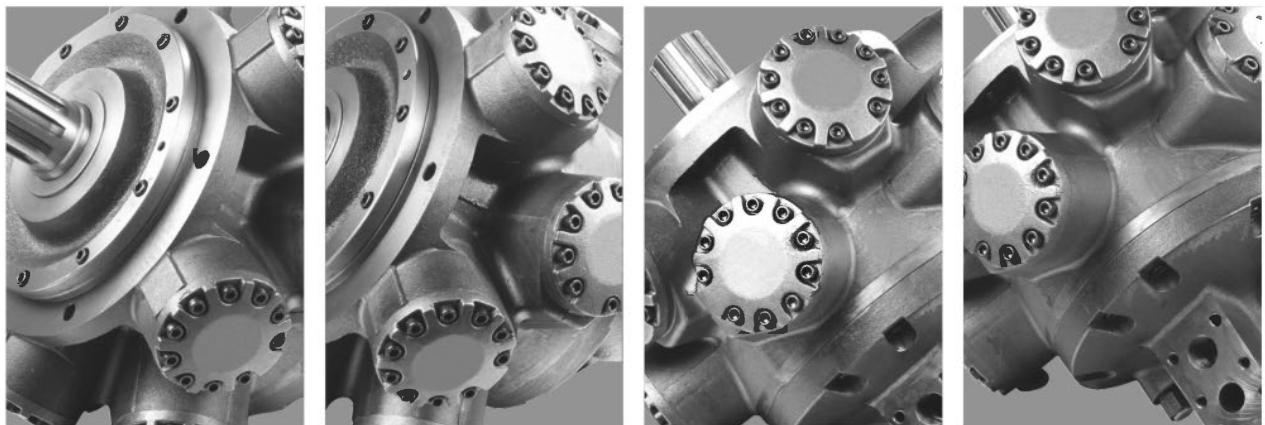
H-HMB(HD)400系列/H-HMB(HD)400 Series

H-HMB(HD)400 外形及安装尺寸/ H-HMB(HD)400 Installation Dimensions

进出油口为F04B的安装尺寸/ F04B Distributor



*①可选配UNF3/4"-16接头/Option: UNF3/4"-16



HFM

HGM

QJM

H-HMB

H-HMC

HCA

HCB

HMS

HA6V

HA2F