

KHH 系列液压传动装置



型号说明 Description of model



KHH 系列液压传动装置



选型举例

KHH3-1000CD31H 表示该液压传动装置采用单级行星减速器传动, 齿轮箱模数为3, 总排量为1000ml/rev, 输出轴采用螺纹联接, 液压马达配流器 D31, 额定压力等级为20MPa。

参数说明

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

选型说明

- 1、KHH 液压传动装置允许在高压下工作。
- 2、壳体允许最高压力为0.8MPa, 如有特殊要求, 请与厂家联系。
- 3、液压油: 建议使用高质量、防泡沫、抗氧化的矿基液压油, 理想工作油温30℃~50℃, 允许油温-20℃~80℃, 当油温低于10℃时, 必须用低凝液压油。液压油的粘度为40~60厘拖, 允许为5~300厘拖。
- 4、液压油过滤精度推荐为25 μm, 或更高过滤精度。
- 5、液压传动装置均可双向旋转, 具体转向见附图。如用户要求与图示转向相反, 请在订货时注明。
- 6、泄油管定位: KHH传动装置允许任何方向安装, 为保证马达内各运动副的润滑, 要求在工作之前将马达内充满液压油, 泄油口位置的选择必须保证运转中壳体充满液压油。
- 7、配流器的选择: 各种液压传动装置可以根据不同工况要求选用各种规格的配流器, 选择配流器的原则按使用压力、转速、流量、联接方式和所集成阀组要求来考虑; 配流器安装; 配流器进油口方向允许按外形安装联接位置以72度为间隔旋转, 但当松开螺钉旋转时, 要当心不能损坏平O形圈的密封功能。

Example of Model Selection

KCN3-1000CD31H means the hydraulic transmission device adopts single-grade planetary reducer transmission with modulus of gearbox being 3 and total displacement of 1000ml/rev; the output shaft adopts screwed connection. Hydraulic motor distributor is D31 and the rated pressure grade is 20MPa.

Description on Parameters

1. The total displacement is calculated by multiplying hydraulic motor displacement with reduction transmission ratio.
2. Rated torque is the actual output torque taking transmisson efficiency into account when system pressure is 16MPa or 20MPa
3. Transmission efficiency includes the mechanical efficiency of hydraulic motor and the mechanical efficiency of planetary reducer.

Description on Selection of Model

1. KHH hydraulic transmission device can work under the high pressure.
2. Shell allowed maximum pressure is 0.8MPa. If you have special requirements, please contact with us.
3. hydraulic oil: Recommend to use the hydraulic oil with high quality, preventing foam and anti-oxidation. The ideal work oil temperature is 30℃~50℃, the allowable oil temperature is 20℃~80℃. When the oil temperature is below 10℃, it has to use low setting hydraulic oil. The viscosity of hydraulic oil is 40~60cSt, the allowable viscosity is 5~300cSt.
4. The recommend hydraulic oil filter rating is 25 μm or higher filter rating.
5. Hydraulic transmission device all can be bilateral rotation, and the detailed direction of rotation is in attachment figure. If you need the opposite direction of rotation of diagram's, please mark your requirements in the order.
6. Drainage tubing positioning: KHH transmission device allow any direction installation. In order to ensure the lubrication of motor's movement, it requires the motor to fill up with hydraulic oil before working. The choice of drainage port position must ensure that the shell is full of hydraulic oil during the operation.
7. The selection of distributor: different kinds of hydraulic transmission device can choose different specifications of the distributor according to different working conditions. The principle of choosing distributor is using pressure, rotate speed, flow, connection pattern and the integrated valve group requirements to consider.

The diagram shows four technical drawings of shaft-hub connections:

- B型平键输出 (Flat key B):** A side view showing a shaft with a flat key of width 80 and length 85. The hub has a bore diameter of 80 and a keyway width of 20. The key is secured with a 2-M8 screw. The shaft diameter is 90.
- C型螺纹法兰输出 (Threaded flange C):** A side view showing a shaft with a threaded flange. The flange has a bore diameter of 80 and a keyway width of 20. The key is secured with a 2-M8 screw. The shaft diameter is 90.
- F型矩形花键输出 (Rectangular spline F):** A side view showing a shaft with a rectangular spline of width 80 and length 85. The hub has a bore diameter of 80 and a keyway width of 20. The key is secured with a 2-M8 screw. The shaft diameter is 90.
- I型内花键输出 (Rectangular internal spline I):** A side view showing a shaft with a rectangular internal spline of width 80 and length 85. The hub has a bore diameter of 80 and a keyway width of 20. The key is secured with a 2-M8 screw. The shaft diameter is 90.

注：外形联结尺寸及输出轴有特殊要求，请与我们联系
Note: If you have special requirements on appearance connection size and output shaft, please contact with us directly.

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Technical drawing of the 100mm diameter hydraulic cylinder, showing front and side views with dimensions and a schematic diagram.

Front View Dimensions:

- Overall diameter: $\varnothing 100$
- Flange diameter: $\varnothing 73$
- Flange thickness: 2.4
- Flange hole diameter: $\varnothing 14$ (uniform distribution)
- Body diameter: $\varnothing 76.2$
- Body length: 485.5
- Mounting bracket diameter: $\varnothing 40$
- Mounting bracket hole diameter: $\varnothing 12$
- Mounting bracket hole offset: 10
- Mounting bracket hole diameter: $\varnothing 10$
- Mounting bracket hole offset: 10
- Mounting bracket hole diameter: $\varnothing 10$
- Mounting bracket hole offset: 10
- Mounting bracket hole diameter: $\varnothing 10$
- Mounting bracket hole offset: 10

Side View Dimensions:

- Overall diameter: $\varnothing 76.2$
- Flange diameter: $\varnothing 73$
- Flange thickness: 2.4
- Flange hole diameter: $\varnothing 14$ (uniform distribution)
- Body diameter: $\varnothing 76.2$
- Body length: 485.5
- Mounting bracket diameter: $\varnothing 40$
- Mounting bracket hole diameter: $\varnothing 12$
- Mounting bracket hole offset: 10
- Mounting bracket hole diameter: $\varnothing 10$
- Mounting bracket hole offset: 10
- Mounting bracket hole diameter: $\varnothing 10$
- Mounting bracket hole offset: 10

Schematic Diagram:

The schematic diagram shows the hydraulic cylinder connected to a pump (P) and a tank (T). The cylinder has two ports, A and B, and a pressure port (P). The pressure port is connected to the pump (P) and the tank (T). The cylinder is shown in a retracted position.

The technical drawing illustrates the 3-position, 4-way hydraulic valve (Model 343-10) in three views:

- Front View (Left):** Shows the valve's profile with dimensions: 12-ø13mm (uniform distribution) for the top ports, 9-ø12mm (uniform distribution) for the bottom ports, 73mm for the top flange width, 179.5mm for the main body length, 25mm for the base thickness, and 477.5mm for the total length. A 10mm dimension is also indicated at the base.
- Top View (Middle):** Shows the valve's circular top with 12 ports arranged in two rows of six. The top row is labeled "A口进口 Inlet" and the bottom row is labeled "B口进口 Inlet". A central 9-ø12mm (uniform distribution) drain hole is labeled "9-ø12mm 泄油孔 (drain port)".
- Schematic Diagram (Right):** A hydraulic circuit diagram showing the valve in its center position. It includes a pump (P), a tank (T), and a 4-way valve (V) with ports A, B, C, and D. The valve is connected to a 4-way valve (V) which is then connected to a 4-way valve (V) with ports A, B, C, and D. The valve is shown in its center position, where all ports are closed.

B型平键输出
Flat key B

C型螺纹法兰输出
Threaded flange C

F型矩形花键输出
Rectangle spline F

I型内花键输出
Rectangle internal spline I

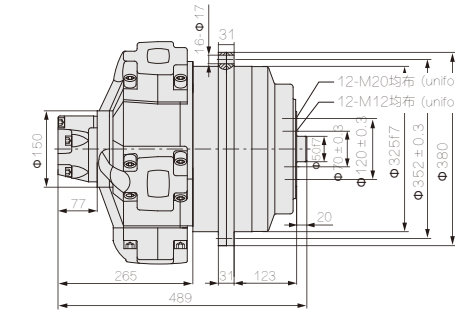
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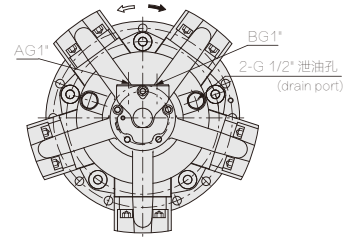
KHH4 系列液压传动装置



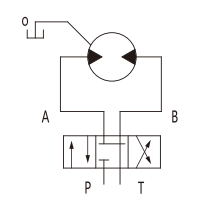
无制动器 Without brake



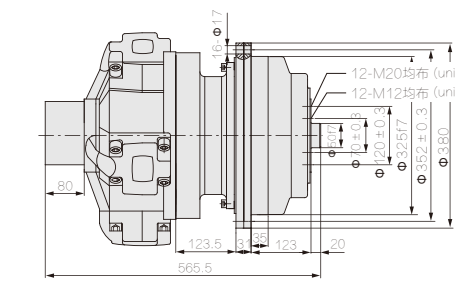
A口进油 inlet B口进油 inlet



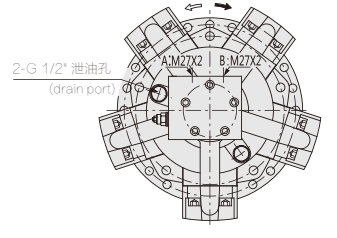
液压原理图
Hydraulic
schematic diagram



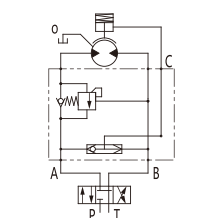
带制动器(外置式) With brake and external installtion



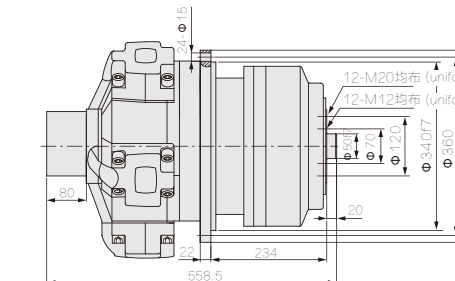
A口进油 inlet B口进油 inlet



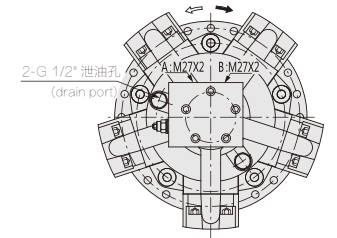
液压原理图
Hydraulic
schematic diagram



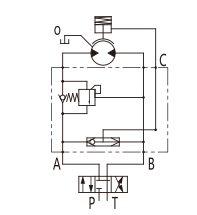
带制动器(内置式) With brake and internal installtion



A口进油 inlet B口进油 inlet

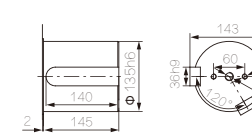


液压原理图
Hydraulic
schematic diagram

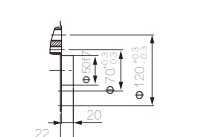


输出轴形式 Shaft dimensions

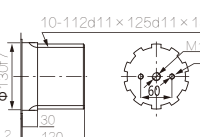
B型平键输出
Flat key B



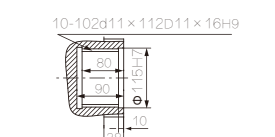
C型螺纹法兰输出
Threaded flange C



F型矩形花键输出
Rectangle spline F



I型内花键输出
Rectangle internal spline I



型 号 Model	总排量 Displacement (ml/r)	额定扭矩 Rated Torque (N.m)		转速范围 Speed range (r/min)	总效率 Total efficiency	液压马达型号 Hydraulic motor model	行星减速机型号 Planetary gearbox	制动器型号 Brake
		16MPa	20MPa					
KHH4-3400	3410	7723	9655	0~55	0.9~0.91	KHM11-700	C4-5	Z4
KHH4-3900	3910	8569	10711	0~55	0.9~0.91	KHM11-800	C4-5	Z4
KHH4-4500	4470	10078	-	0~55	0.9~0.91	KHM11-900	C4-5	Z4
KHH4-4900	4917	11086	13857	0~45	0.9~0.91	KHM11-900	C4-5.5	Z4
KHH4-5400	5396	11734	14669	0~45	0.9~0.91	KHM11-1000	C4-5.5	Z4
KHH4-6100	6072	13284	-	0~45	0.9~0.91	KHM11-1100	C4-5.5	Z4

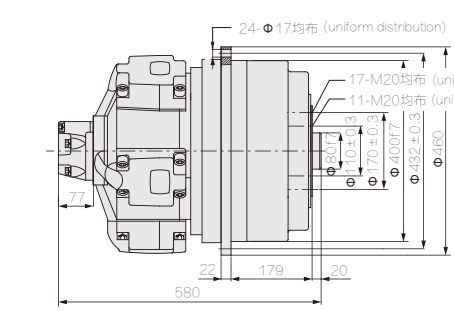
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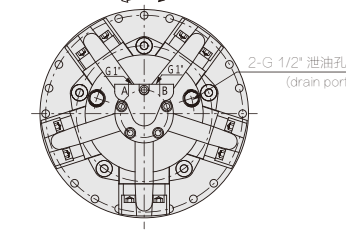
KHH5 系列液压传动装置



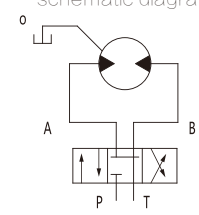
无制动器 Without brake



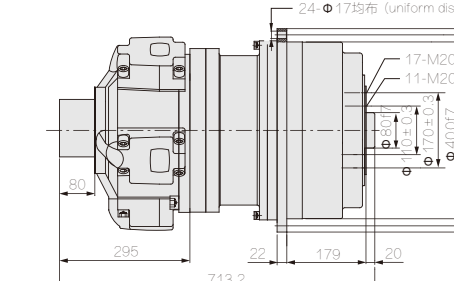
A口进油 inlet B口进油 inlet



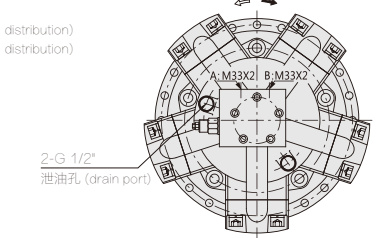
液压原理图
Hydraulic
schematic diagram



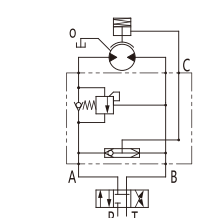
带制动器(外置式) With brake and external installtion



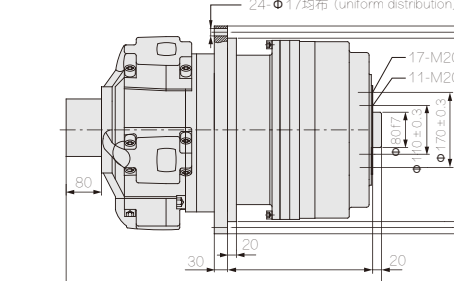
A口进油 inlet B口进油 inlet



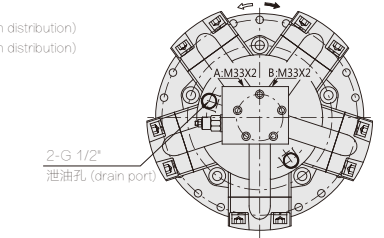
液压原理图
Hydraulic
schematic diagram



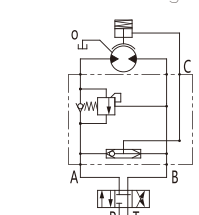
带制动器(内置式) With brake and internal installtion



A口进油 inlet B口进油 inlet

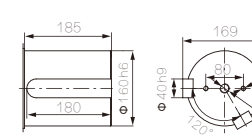


液压原理图
Hydraulic
schematic diagram



输出轴形式 Shaft dimensions

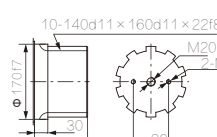
B型平键输出
Flat key B



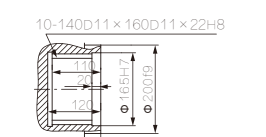
C型螺纹法兰输出
Threaded flange C



F型矩形花键输出
Rectangle spined F



I型内花键输出
Rectangle internal spline I



型 号 Model	总排量 Displacement (ml/r)	额定扭矩 Rated Torque (N.m) 16MPa20MPa		转速范围 Speed range (r/min)	总效率 Total power	液压马达型号 Hydraulic motor model	行星减速机型号 Planetary gearbox	制动器型号 Brake
KHH5-7000	7065	14880	18600	0~40	0.9~0.91	KHM16-1400	C5-5	Z5
KHH5-8250	8240	17834	22292	0~40	0.9~0.91	KHM16-1600	C5-5	Z5
KHH5-9000	9070	19667	24584	0~40	0.9~0.91	KHM16-1800	C5-5	Z5
KHH5-10000	10170	21823	27286	0~40	0.9~0.91	KHM16-2000	C5-5	Z5
KHH5-11000	11870	24011	30014	0~35	0.9~0.91	KHM16-2000	C5-5.5	Z5
KHH5-12500	12469	28685	-	0~35	0.9~0.91	KHM16-2400	C5-5.5	Z5

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24. $\Phi 21$ 均布 (uniform distribution)

Dimensions: 113, 411, 74.8, 107, 213, 20, 140, 200, 30, 0.887 $\pm$ 0.03, $\Phi 10 \pm 0.3$, $\Phi 150$.

[illegible]

B型平键输出
Flat key B



Threaded flange C

23-M20均布 (uniform distribution)
17-M20均布 (uniform distribution)
11-M20均布 (uniform distribution)

170 ± 0.3
30 ± 0.3
20

Rectangle spline F

10-160d11 × 190d11 × 24f8

190f7

40

160

24f8

100

50

80

M20

2-M10

Rectangle internal spline I

10-160D11 × 180D11 × 24H8

35

14

15

185H7

260H9

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2-G 1/2"
泄油孔
(drain port)

[illegible]

B型平键输出
Flat key B

210
190
45
2-M10
M20
145
200±6

Technical drawing of a threaded flange (C) showing dimensions and bolt specifications:

- 23-M20 均布 (uniform distribution)
- 17-M20 均布 (uniform distribution)
- 11-M20 均布 (uniform distribution)
- Dimensions: $\phi 80H7$, $\phi 110 \pm 0.03$, $\phi 170 \pm 0.3$, $\phi 230 \pm 0.3$

Rectangle splined F

10-184d11 × 200d11 × 30f8

Ø 210f7

M20

2-M12

10-184D11×200D11×30H9

Note: If you have special requirements on appearance connection size and output shaft, please contact with us directly

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B型平键输出
Flat key B

C型螺纹法兰输出
Threaded flange C

F型矩形花键输出
Rectangle spline F

I型内花键输出
Rectangle internal spline I

Note: If you have special requirements on appearance connection size and output shaft, please contact with us directly.

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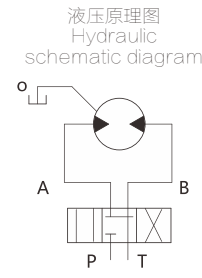
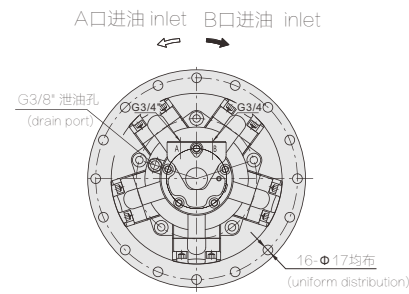
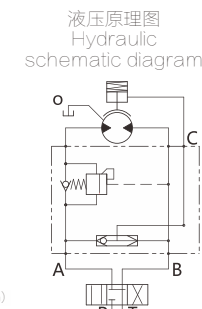
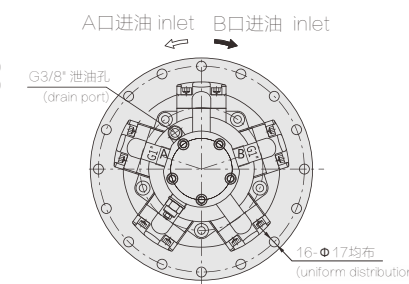
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B型平键输出 Flat key B	C型螺纹法兰输出 Threaded flange C	F型矩形花键输出 Rectangle splined F	I型内花键输出 Rectangle internal spline I
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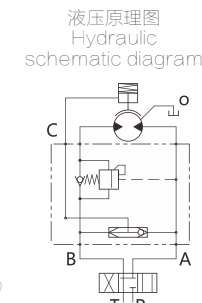
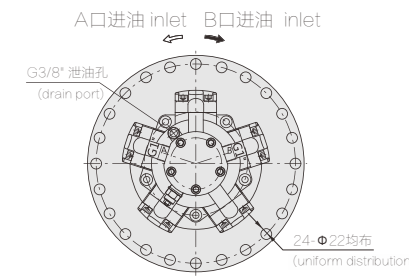
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[illegible][illegible]

Technical drawing of the rear view of the motor assembly. Dimensions include:

- Total width: 671
- Flange thickness: 25
- Distance from flange face to centerline: 159.5
- Mounting hole diameter: $\varnothing 40 \pm 0.3$
- Mounting hole pitch circle diameter: $\varnothing 140$
- Internal thread specifications: 12-M20均布 (uniform) and 12-M12均布 (uniform)
- Other dimensions shown: 13, 20, 25, 28, 30, 32, 35, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 58, 60, 62, 64, 66, 68, 70, 72, 74, 76, 78, 80, 82, 84, 86, 88, 90, 92, 94, 96, 98, 100.



B型平键输出
Flat key B



C型螺纹法兰输出
Threaded flange C



12-M20均布 (uniform distribution)
12-M12均布 (uniform distribution)

50/70
70 ± 0
120 ± 0.3
20

F型矩形花键输出
Rectangle splined F

10-112d11 x 125d11 x 18f8

130

13

30

60

2-M10

M16

I 型内花键输出
Rectangle internal spline I

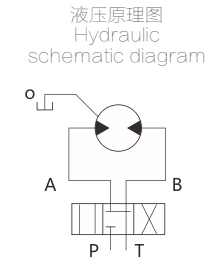
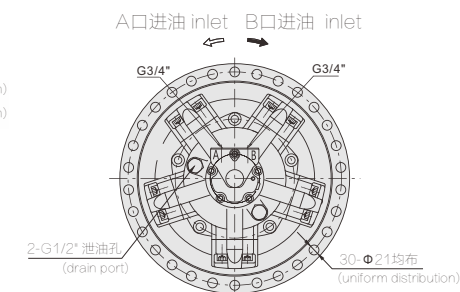
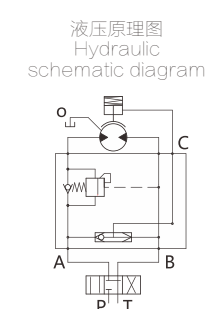
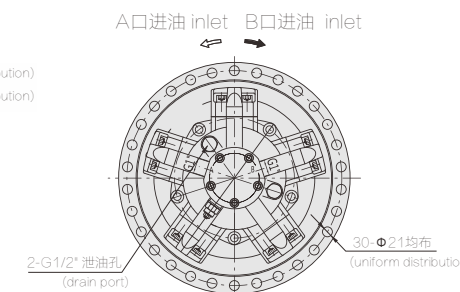
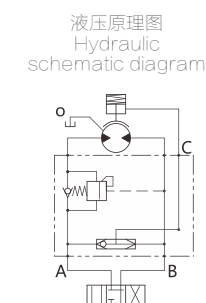
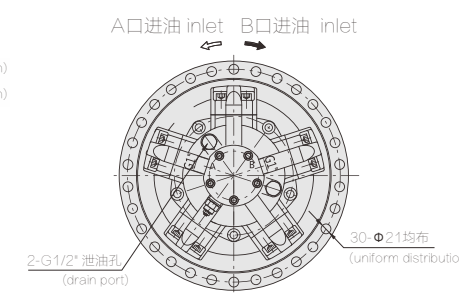
10-102D11 x 112D11 x 16H9

10 30 38 115 17 16H9

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Technical drawing of the front view of the 1000 Series Motor. The drawing shows a cylindrical motor with a flange on the left and a mounting bracket on the right. Dimensions are given in millimeters. The total length is 644 mm. The mounting bracket has a width of 223 mm and a height of 56 mm. The motor body has a diameter of 170 mm. The mounting bracket has a diameter of 170 mm and a height of 100 mm. The mounting bracket has a diameter of 170 mm and a height of 100 mm. The mounting bracket has a diameter of 170 mm and a height of 100 mm.

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B型平键输出
Flat key B



C型螺纹法兰输出
Threaded flange C

17-M20均布 (uniform distribution)
11-M20均布 (uniform distribution)

80 ± 0.3
10 ± 0.3
170 ± 0.3
17 ± 0.3

F型矩形花键输出
Rectangle splined F

10-140d11 × 160d11 × 2218

φ170f7
30
120
80
M20
2-M

I型内花键输出
Rectangle internal spline I

10-140D11×160D11×22H9

Technical drawing of a rectangular internal spline (I型内花键) showing dimensions: 20, 110, 120, 165±7, 200f9, and 3H.

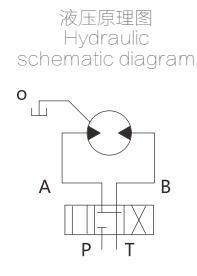
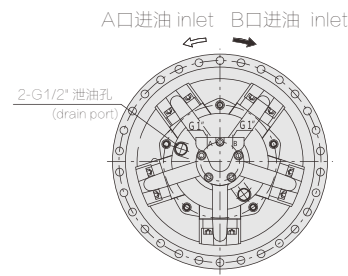
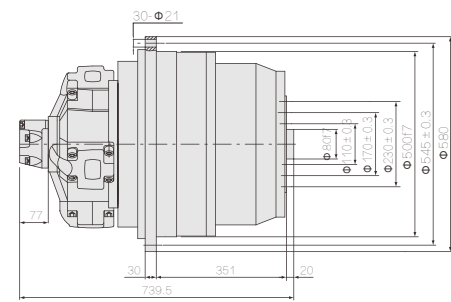
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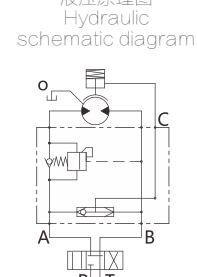
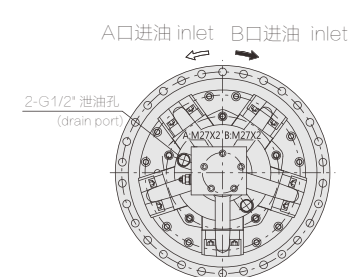
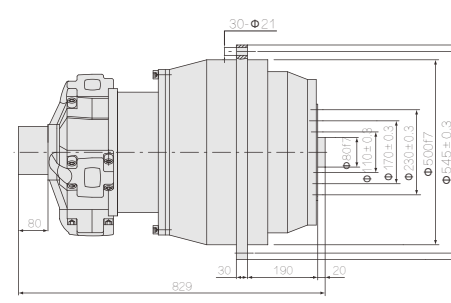
KHH5 6 系列液压传动装置



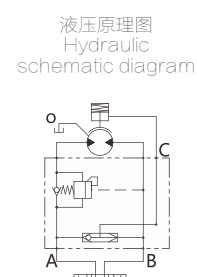
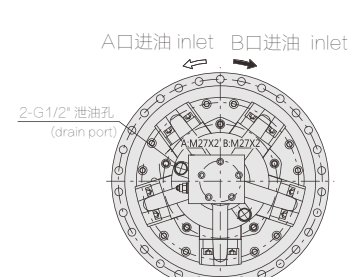
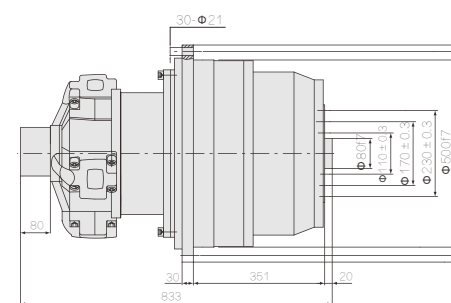
无制动器 Without brake



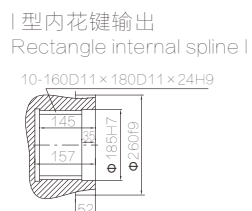
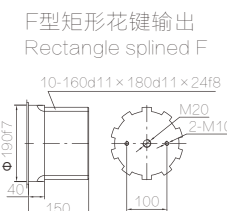
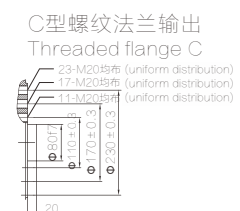
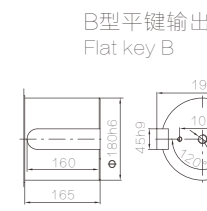
带制动器(外置式) With brake and external installtion



带制动器(内置式) With brake and internal installtion



输出轴形式 Shaft dimensions



型 号 Model	总排量 Displacement (ml/r)	额定扭矩 (N.m) 16MPa 20MPa	转速范围 Speed range (r/min)	总效率 Total power	液压马达型号 Hydraulic motor model	行星减速机型号 Planetary gearbox	制动器型号 Brake
KHH5 6-14000	13640	30041 37551	0~14	0.88~0.9	KHM11-700	C5 6-20	Z5
KHH5 6-16000	15640	33330 41662	0~14	0.88~0.9	KHM11-800	C5 6-20	Z5
KHH5 6-18000	17880	39198 48998	0~14	0.88~0.9	KHM11-900	C5 6-20	Z5
KHH5 6-19000	19124	42057 52571	0~10	0.88~0.9	KHM11-700	C5 6-28	Z5
KHH5 6-22000	21896	46662 58327	0~10	0.88~0.9	KHM11-800	C5 6-28	Z5
KHH5 6-25000	25032	54878 -	0~10	0.88~0.9	KHM11-900	C5 6-28	Z5
KHH5 6-28000	27468	58091 -	0~10	0.88~0.9	KHM11-1000	C5 6-28	Z5

注：外形联结尺寸及输出轴有特殊要求，请与我们联系

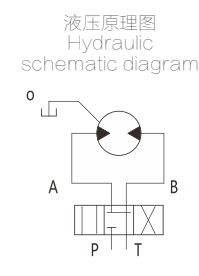
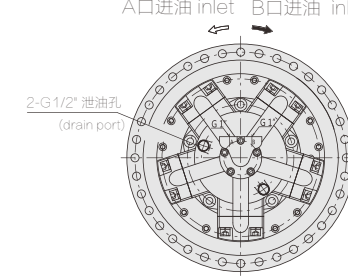
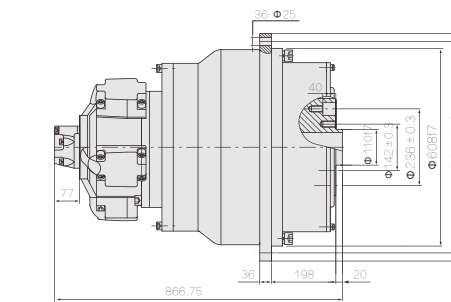
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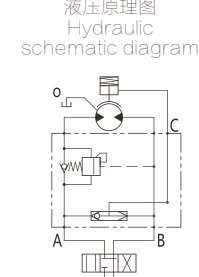
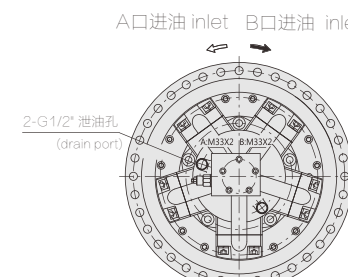
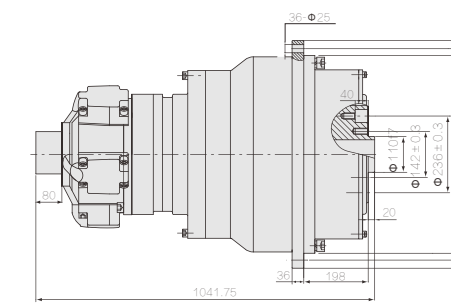
KHH6 7 系列液压传动装置



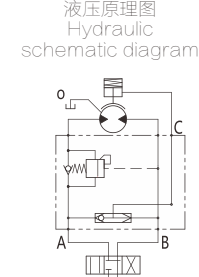
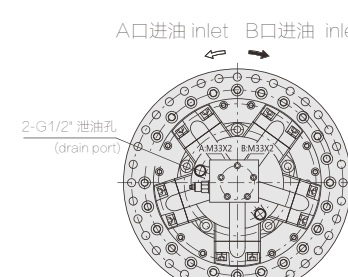
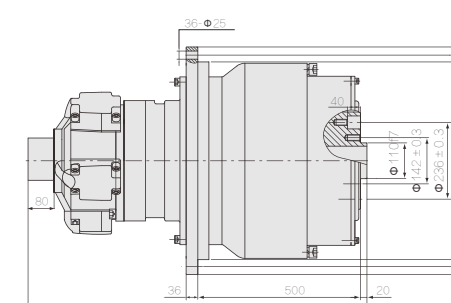
无制动器 Without brake



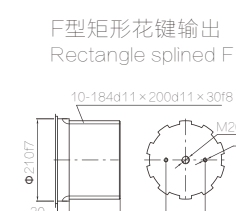
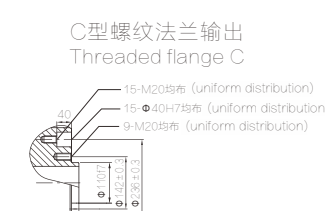
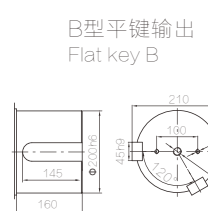
带制动器(外置式) With brake and external installtion



带制动器(内置式) With brake and internal installtion



输出轴形式 Shaft dimensions



型 号 Model	总排量 Displacement (ml/r)	额定扭矩 Rated Torque (N.m) 16MPa 20MPa	转速范围 Speed range (r/min)	总效率 Total power	液压马达型号 Hydraulic motor	行星减速机型号 Planetary gearbox	制动器型号 Brake
KHH6 7-28000	28260	57874 72342	0~8	0.88~0.9	KHM16-1400	C6 7-20	Z6
KHH6 7-33000	32960	69364 86704	0~8	0.88~0.9	KHM16-1600	C6 7-20	Z6
KHH6 7-36000	36280	76497 95621	0~8	0.88~0.9	KHM16-1800	C6 7-20	Z6
KHH6 7-40000	39564	81024 101280	0~6	0.88~0.9	KHM16-1400	C6 7-28	Z6
KHH6 7-46000	46144	97109 -	0~6	0.88~0.9	KHM16-1600	C6 7-28	Z6

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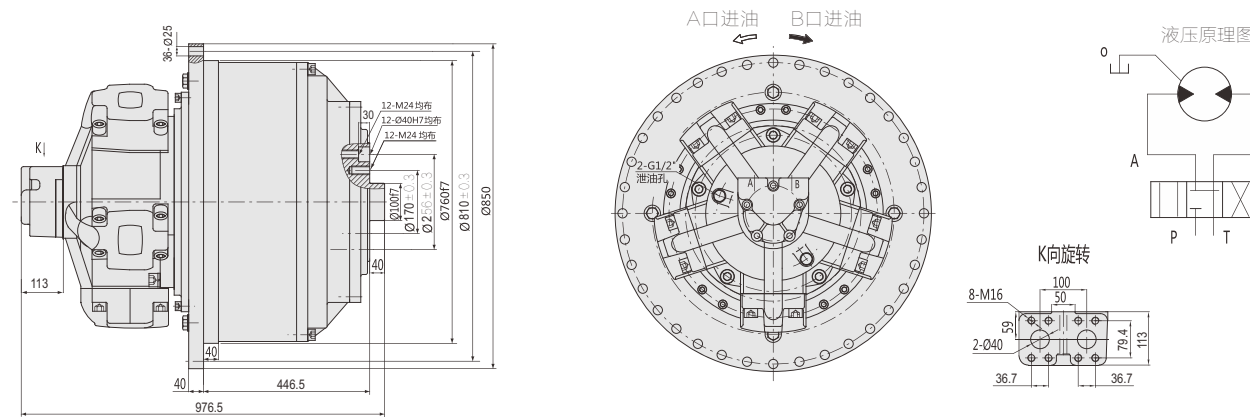
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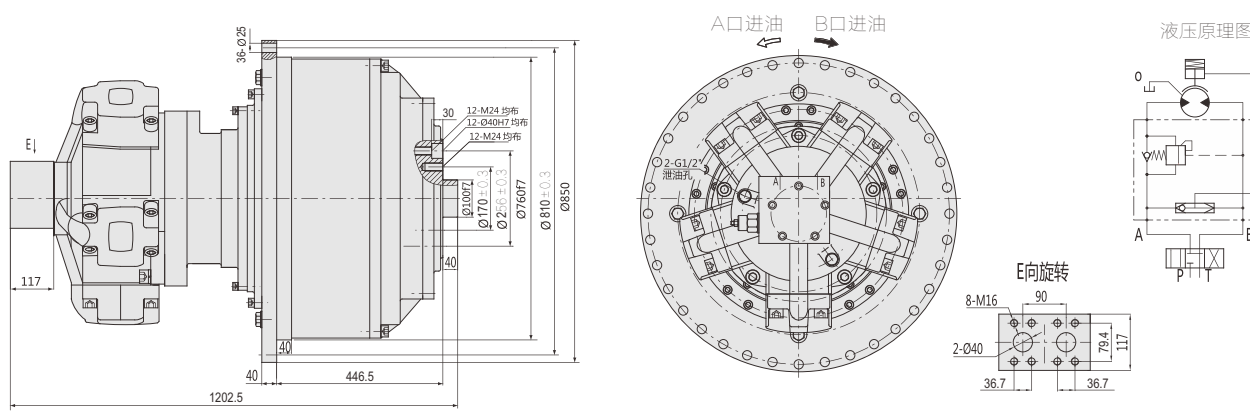
KHH7 9 系列液压传动装置



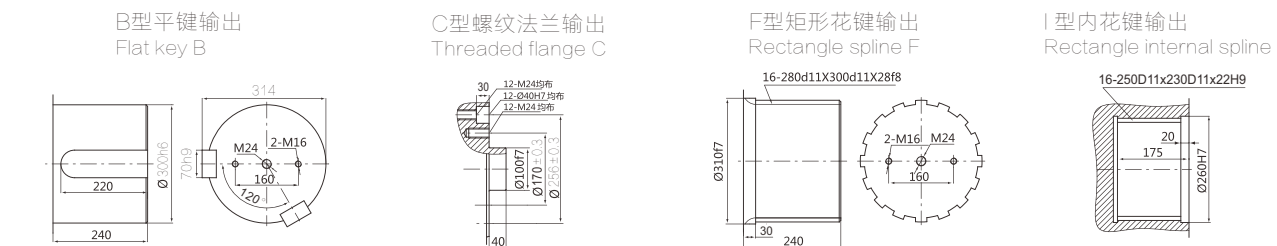
无制动器 Without brake



带制动器(内置式) With brake and internal installtion



输出轴形式 Shaft dimensions



型 号 Model	总排量 Displacement (ml/r)	额定扭矩 (N.m) 16MPa20MPa		转速范围 Speed range (r/min)	总效率 Total power	液压马达型号 Hydraulic motor model	行星减速机型号 Planetary gearbox	制动器型号 Brake
KHH7 9-41000	40848	85813	107267	0~9	0.88~0.9	KHM31-2500	C7 9-16	Z7
KHH7 9-43000	42928	95149	118936	0~9	0.88~0.9	KHM31-2800	C7 9-16	Z7
KHH7 9-50000	51060	107267	134083	0~7	0.88~0.9	KHM31-2500	C7 9-20	Z7
KHH7 9-54000	53660	118936	148670	0~7	0.88~0.9	KHM31-2800	C7 9-20	Z7
KHH7 9-64000	64360	132239	165229	0~7	0.88~0.9	KHM31-3150	C7 9-20	Z7
KHH7 9-69000	69240	143898	179872	0~6	0.88~0.9	KHM31-3500	C7 9-20	Z7
KHH7 9-83000	83040	175732	-	0~6	0.88~0.9	KHM31-4000	C7 9-20	Z7

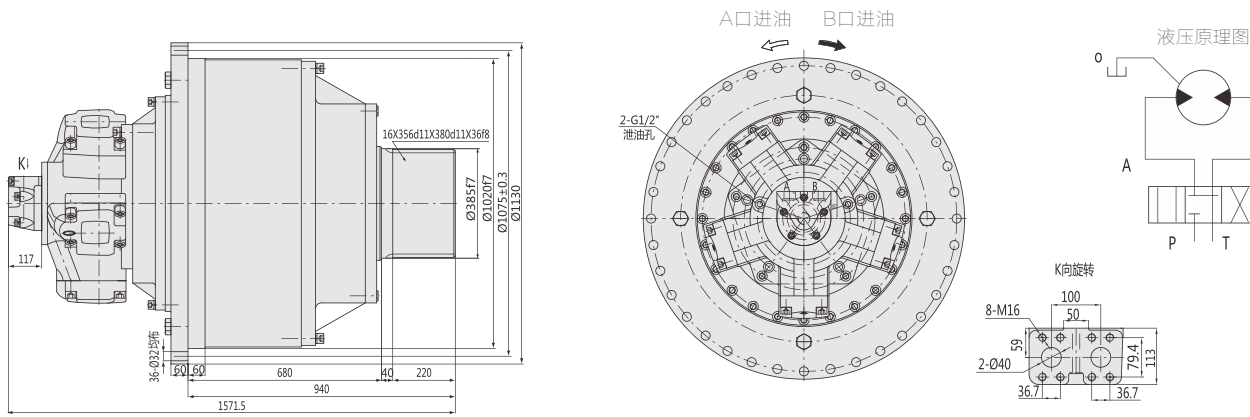
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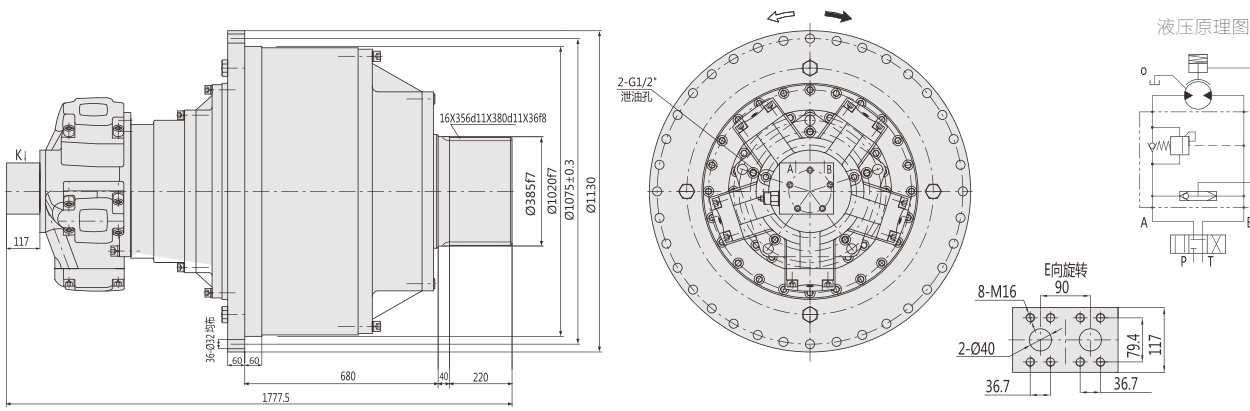
KHH9 12 系列液压传动装置



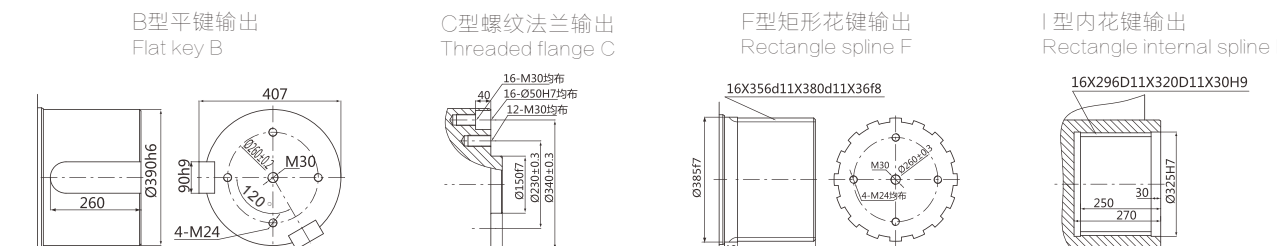
无制动器 Without brake



带制动器(内置式) With brake and internal installtion



输出轴形式 Shaft dimensions



型 号 Model	总排量 Displacement (ml/r)	额定扭矩 Rated Torque (N.m) 16MPa 20MPa	转速范围 Speed range (r/min)	总效率 Total power	液压马达型号 Hydraulic motor model	行星减速机型号 Planetary gearbox	制动器型号 Brake
KHH9 12-100000	96936	200000 250000	0~4	0.88~0.9	KHM40-3500	C9 12-28	Z9
KHH9 12-115000	116340	248800 310000	0~4	0.88~0.9	KHM40-4000	C9 12-28	Z9
KHH9 12-125000	126672	270000 340000	0~4	0.88~0.9	KHM40-4500	C9 12-28	Z9
KHH9 12-140000	139664	320000	0~3.5	0.88~0.9	KHM40-5000	C9 12-28	Z9
KHH9 12-155000	154224	350000	0~3.3	0.88~0.9	KHM40-5500	C9 12-28	Z9
KHH9 12-175000	176708	384000	0~3.2	0.88~0.9	KHM40-6300	C9 12-28	Z9

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