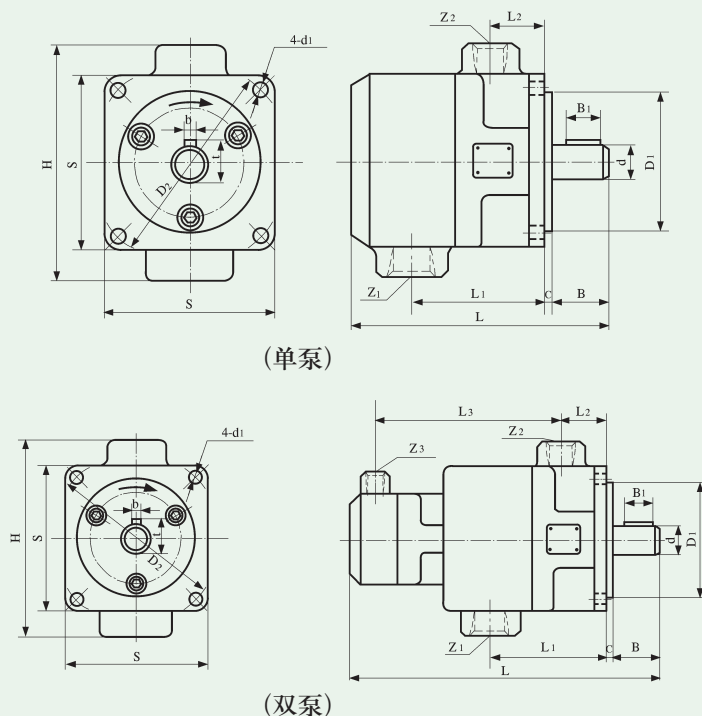


## 简介 General Description

YB1型叶片泵系中压双作用定量泵，适用于金属切削机床及其它机械的中、低压系统中。该泵一般为正转，根据需要可安装成反转。

YB1-style vane pump is quantitative medium-pressure double-acting pump. It is used in metal cutting machine tool and low or medium-pressure systems in different machines. It's rotated backward and forward.

## 外形尺寸图 Outline Dimension



- ※ 双泵由二单泵组成，各单泵仍保持其排量。
- ※ 驱动功率为二单泵之和，压力及转速与单泵相同。

## 技术参数 Technical Data

| 型号<br>Model | 排量<br>Displacement<br>mL/r | 压力<br>Pressure<br>MPa | 转速<br>Speed<br>r/min | 容积效率<br>Efficiency<br>$\eta_v\%$ | 驱动功率<br>Driving Power<br>kw | 重量<br>Weight<br>kg |
|-------------|----------------------------|-----------------------|----------------------|----------------------------------|-----------------------------|--------------------|
| YB1-2.5     | 2.5                        | 6.3                   | 1450                 | $\geq 68$                        | 0.9                         | 5                  |
| YB1-4       | 4                          |                       |                      | $\geq 85$                        | 1.1                         |                    |
| YB1-6.3     | 6.3                        |                       |                      | $\geq 88$                        | 1.5                         |                    |
| YB1-10      | 10                         |                       |                      | $\geq 88$                        | 2.3                         |                    |
| YB1-16      | 16                         |                       | 960                  | $\geq 88$                        | 2.3                         | 9                  |
| YB1-20      | 20                         |                       |                      | $\geq 90$                        | 3                           |                    |
| YB1-25      | 25                         |                       |                      | $\geq 90$                        | 3.3                         |                    |
| YB1-32      | 32                         |                       |                      | $\geq 90$                        | 4.2                         | 16                 |
| YB1-40      | 40                         |                       |                      | $\geq 92$                        | 5                           |                    |
| YB1-50      | 50                         |                       |                      | $\geq 92$                        | 6.2                         |                    |
| YB1-63      | 63                         |                       |                      | $\geq 92$                        | 7.7                         |                    |
| YB1-80      | 80                         |                       | 960                  | $\geq 92$                        | 9.8                         | 22                 |
| YB1-100     | 100                        |                       |                      | $\geq 92$                        | 12.3                        |                    |

## YB1 model vane oil pump

## 技术规格 Technical Size

| 型 号<br>Model      | L     | L <sub>1</sub> | L <sub>2</sub> | L <sub>3</sub> | B  | B <sub>1</sub> | H   | S   | D <sub>1</sub> | D <sub>2</sub> | d   | d <sub>1</sub> | C | t    | b | Z <sub>1</sub>       | Z <sub>2</sub>     | Z <sub>3</sub>     |
|-------------------|-------|----------------|----------------|----------------|----|----------------|-----|-----|----------------|----------------|-----|----------------|---|------|---|----------------------|--------------------|--------------------|
| YB1-2.5、4、6.3、10  | 151   | 80             | 36             |                | 36 | 16             | 124 | 90  | Φ75dc          | Φ100           | Φ15 | Φ9             | 5 | 17   | 5 | Z <sup>3/8</sup> "   | Z <sup>1/4</sup> " |                    |
| YB1-16、20、25      | 186   | 98             | 38             |                | 45 | 20             | 145 | 110 | Φ90dc          | Φ128           | Φ20 | Φ11            | 5 | 21.9 | 5 | Z 1"                 | Z <sup>3/4</sup> " |                    |
| YB1-32、40、50      | 210   | 110            | 45             |                | 50 | 25             | 170 | 130 | Φ90dc          | Φ150           | Φ25 | Φ13            | 5 | 28   | 8 | Z 1"                 | Z 1"               |                    |
| YB1-63、80、100     | 225   | 118            | 49.5           |                | 50 | 30             | 200 | 150 | Φ90dc          | Φ175           | Φ30 | Φ13            | 5 | 33   | 8 | Z <sup>1 1/4</sup> " | Z 1"               |                    |
| YB1-2.5~10/2.5~10 | 221   | 96.5           | 36             | 121            | 36 | 20             | 110 | 90  | Φ75dc          | Φ100           | Φ15 | Φ9             | 5 | 17   | 5 | Z <sup>3/4</sup> "   | Z <sup>1/4</sup> " | Z <sup>1/4</sup> " |
| YB1-16~25/2.5~10  | 255   | 106            | 38             | 144            | 45 | 20             | 145 | 110 | Φ90dc          | Φ128           | Φ20 | Φ11            | 5 | 22   | 5 | Z 1"                 | Z <sup>3/4</sup> " | Z <sup>1/4</sup> " |
| YB1-32~50/2.5~10  | 295   | 140            | 45             | 165            | 50 | 25             | 175 | 130 | Φ90dc          | Φ150           | Φ25 | Φ13            | 5 | 28   | 8 | Z <sup>1 1/4</sup> " | Z 1"               | Z <sup>1/4</sup> " |
| YB1-63~100/2.5~10 | 303.5 | 150.5          | 49.5           | 176            | 50 | 30             | 200 | 150 | Φ90dc          | Φ175           | Φ30 | Φ13            | 5 | 33   | 8 | Z <sup>1 1/2</sup> " | Z 1"               | Z <sup>1/4</sup> " |
| YB1-16~25/16~25   | 276   | 122            | 38             | 126            | 45 | 20             | 147 | 110 | Φ90dc          | Φ128           | Φ20 | Φ11            | 5 | 21.9 | 5 | Z 1"                 | Z <sup>3/4</sup> " | Z <sup>3/4</sup> " |
| YB1-32~50/16~25   | 305   | 119.5          | 44             | 183.3          | 50 | 30             | 175 | 130 | Φ90dc          | Φ150           | Φ25 | Φ13            | 5 | 28   | 8 | Z <sup>1 1/4</sup> " | Z 1"               | Z <sup>3/4</sup> " |
| YB1-63~100/16~25  | 318   | 128            | 49.5           | 194            | 50 | 30             | 212 | 150 | Φ90dc          | Φ175           | Φ30 | Φ13            | 5 | 33   | 8 | Z <sup>1 1/2</sup> " | Z 1"               | Z <sup>3/4</sup> " |
| YB1-32~50/32~50   | 316   | 139.5          | 44             | 191            | 50 | 30             | 175 | 130 | Φ90dc          | Φ150           | Φ20 | Φ13            | 5 | 28   | 8 | Z <sup>1 1/4</sup> " | Z 1"               | Z 1"               |
| YB1-63~100/32~50  | 337   | 128.3          | 49             | 207.3          | 50 | 30             | 215 | 150 | Φ90dc          | Φ175           | Φ25 | Φ13            | 5 | 33   | 8 | Z 2"                 | Z 1"               | Z 1"               |
| YB1-63~100/63~100 | 348   | 158            | 49             | 218            | 50 | 30             | 205 | 150 | Φ90dc          | Φ175           | Φ30 | Φ13            | 5 | 33   | 8 | Z 2"                 | Z 1"               | Z 1"               |

## 2CY系列齿轮油泵

### 2CY series gear oil pump

#### 简介 General Description

适用于输送不含固体颗粒和纤维,无腐蚀性,温度不高于80℃,粘度为 $5 \times 10^{-6} \sim 1.5 \times 10^{-3} \text{m}^2/\text{s}$ (5~1500cst)的润滑油或性质类似润滑油的其它液体,以及用于液压传动系统。

It only be used to transport lubricant oil which is out of solid particles and fiber and corrosive acid, and the temperature can't beyond 80℃ (viscosity factor is 5-1500cst). 2CY geared oil pump can also use in hydraulic transmission system.



#### 应用范围 Application Scope

在输油系统中可用作传输、增压泵;  
在燃油系统中可用作输送、加压、喷射的燃油泵;  
在液压传动系统中可用作提供液压动力的液压泵;  
在一切工业领域中,均可作润滑油泵用。

Transferred and pressurized pump in tank handling device, transferred, pressurized and jet pump in fuel systems, in the hydraulic transmission system, it is used to provide hydraulic power for hydraulic pumps. in all industrial areas, it can be used as lubricating oil pump.

#### 结构特点 Structure Feature

本系列齿轮泵主要有齿轮、轴、泵体、泵盖、轴端套、轴端密封等组成。齿轮经氮化处理有较高的硬度和耐磨性,与轴一同安装在可更换的轴套内运转。泵内全部零件的润滑均在泵工作时利用输送介质而自动达到。

泵内四个轴承套在泵体内浮动安装,随工作压力大小自动调整端面间隙,因此泵的压力稳定,输出流量脉动小,容积效率高。

从主轴外伸端向泵看,为顺时针旋转。

This series of gear pumps are mainly composed of gear, shaft, pump, pump cover, shaft sleeve, shaft. it throughs by nitrogen treatment, has a relatively high hardness and wear resistance, together with the shaft installed in the sleeve which can be replaced. all the parts in the pump work automatically through using transmission medium to reach.

Four bearings in the pump body has floating installation. with the work pressure, it adjusts the size of end-gap automatically. so the pressure pump has stability, small output flow pulsation, volumetric efficiency.

It's clockwise rotation.