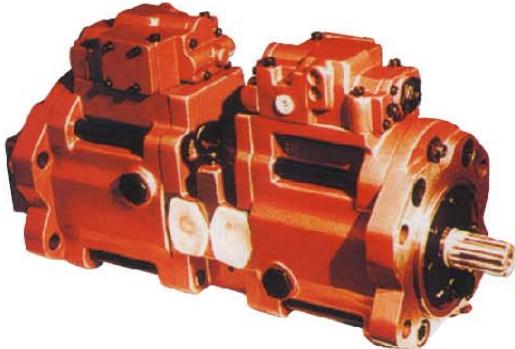


## 3V112DT-1X5R-2N09-2 变量柱塞泵 Variable displacement pump



本产品为前后串联斜盘式轴向柱塞变量泵。具有结构紧凑，高功率密度，高效率，高自吸能力，长寿命，低噪音，多种多样的控制方式等优点，适用于开式液压系统。本系列产品广泛应用于各种液压挖掘机。

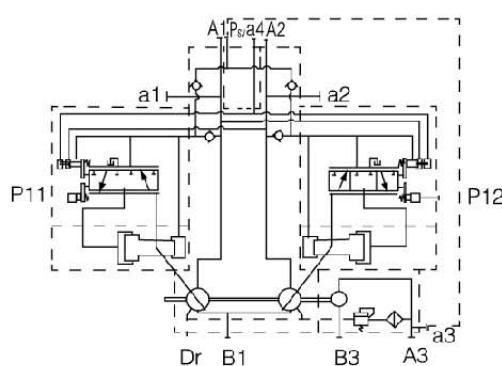
Axial piston swash plate design, variable displacement motor, it is provide with features of compact conformation, high power density, high efficiency, high spontaneous suction, long lifetime, low noise, different control modes and so on, applies to hydraulic system of open circuit, is widely used in different hydraulic excavators.

### 技术参数 Technical date

排量	Displacement	112+112ml/r
额定压力	Pated pressure	34.3MPa
最高压力	Peak pressure	39.2MPa
额定转速	Pated speed	2360r/min
最高转速	Speed Max.continuous	2700r/min
旋转方向	Rotate direction	右旋 right
工作方式	Working	开式系统open circuit
控制方式	Control mode	恒功率+负流量 constant power + minus flow
油温范围	Oil temperature range	(-20~+80)°C
粘度范围	Viscosity range	(10~1000)mm <sup>2</sup> /s
连续工作粘度	Continue operating viscosity	(12~60)mm <sup>2</sup> /s
最佳工作粘度	Optimum operating viscosity	(16~25)mm <sup>2</sup> /s
近似重量	Weight(approx.)	125kg

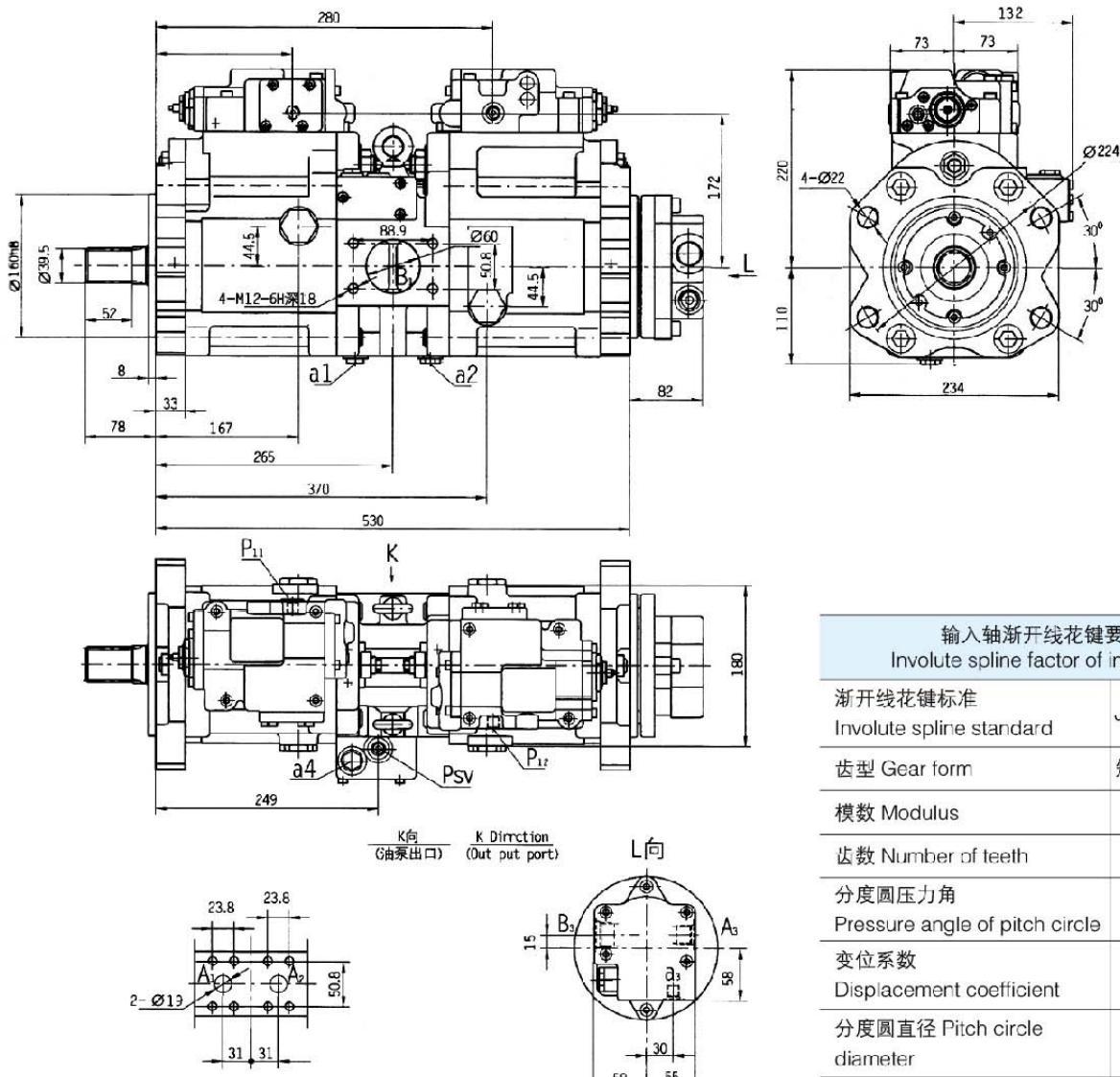
### 液压原理图

Hydraulic theory picture



B1、B3 进油口 Suction port  
 A1、A2 压力油口 Pressure port  
 Dr 壳体排油（泄油）口 Case drain port  
 P11、P12、Psv 控制压力供油口 Control pressure supply  
 a1 ~ a4 压力测量口 Gauge ports for preddure

■ 安装图 Mounting Dimension



输入轴渐开线花键要素  
Involute spline factor of input axis

渐开线花键标准	JISD2001-1959
齿型 Gear form	短齿 Short tooth
模数 Modulus	2.5
齿数 Number of teeth	14
分度圆压力角 Pressure angle of pitch circle	20°
变位系数 Displacement coefficient	0.8
分度圆直径 Pitch circle diameter	35
大径 Big diameter	39.5
小径 Small diameter	34

■ 油口尺寸 Port dimensions

油口	a	b	c	d	e
R1 12 PSV a1~4	$\Phi 15.6^{+0.1}_0$	$\Phi 24$	15	$2.5^{+0.4}_0$	C1/4
A3	$\Phi 22.6^{+0.1}_0$	$\Phi 34$	19	$2.5^{+0.4}_0$	G1/2
Dr B3	$\Phi 30.8^{+0.1}_0$	$\Phi 45$	20	$3.5^{+0.4}_0$	G3/4