

## HPVMF 静液压传动装置 Hydraulic static transmission



静液压传动装置，又称液压无极变速器(HST)，集成液压泵、液压马达、控制阀、油滤为一体，组成闭式系统，通过调节液压泵的排量，实现无级变速传动。

Hydrostatic transmission device, known as HST, is a closed circuit system which integrates pump, motor, control valve and oil filter together, and can vary motor output speed infinitely by changing pump displacement proportionally.

- 主要应用于水稻收割机、插秧机、拖拉机、联合收割机、玉米收割机、小型工程机械等的行走驱动系统
- 无级变速传动，马达平稳切换输出旋向
- 在各高压侧配置溢流阀用于防止液压传动系统过载
- 内置补油泵，最大补油压力由内置溢流阀限制
- 超宽中位区间设计，更易找到中位
- 低负荷操作力矩，舒适的操作手感
- 结构紧凑、体积小、重量轻、噪音低
- Mainly applied in propel system of rice harvester, rice transplanter, tractor, combine harvester, corn harvester and mini construction machinery
- Infinitely variable speed change, stable output rotation direction change
- Pressure-relief valves in both pressure ports for system overload protection
- Integrated boost pump, max. charge pressure is adjusted by a built-in pressure-relief valve
- Easy neutral position adjustment
- Low operating torque, comfortable operation
- Compacted design, small size, light weight, low noise

### 型号说明 Type code

LY	—	H	PV	MF	—	28	—	L	—	02	
01		02	03	04		05		06		07	08

### 公司标识 Company identification

01	“力源液压”公司 Liyuan company	LY
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### 控制方式 Control devices

02	手动控制 Manual control	●	●	●	●	●	—	H
	手动伺服控制 Manual servo control	—	—	—	—	—	●	HS
	电磁比例控制 Electric proportional control	—	—	—	—	—	○	EP

### 泵 Pump

03	轴向柱塞变量泵 Variable axial piston pump	PV
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### 马达 Motor

04	轴向柱塞定量马达 Fixed axial piston motor	MF
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### 规格 Size

05	泵、马达最大排量 Vgmax	mL/r	18	23	28	37	42	56	28
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### 旋转方向 Direction of rotation

06	从轴伸看 Viewed from drive shaft	顺时针 Clockwise	●	○	●	●	●	●	L
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### 滤油器形式 Filtration

07	不带滤油器 Without oil filter	○	○	●	●	●	○	01
	带滤油器 With oil filter	●	○	●	●	●	●	02

### 客户定制 Customization

08	根据客户需求定制 Customized according to demand	A/B/C/D.....
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### 技术参数 Technical data

排量 Displacement (mL/r)	额定压力 Nominal pressure (MPa)	最高压力 Max. pressure (MPa)	转速 Speed (rpm)	理论最大输出扭矩 Theoretical max. output torque (N•m)	理论最大传递功率 Theoretical max. transfer power (kW)	重量 Weight (kg)
18	21	30 <sup>+2</sup>	3000	96	31	17
23	21	28 <sup>+2</sup>	3000	112	35	23
28	21	28 <sup>+2</sup>	3000	134	42	23
37	21	30 <sup>+3</sup>	3000	194	61	25
42	21	32 <sup>+3</sup>	3000	234	73.5	27
56	25	32 <sup>+3</sup>	3000	312	98	46

● =可供货 Available    ○ =可按要求订货 On request    — =不可供货 Not available