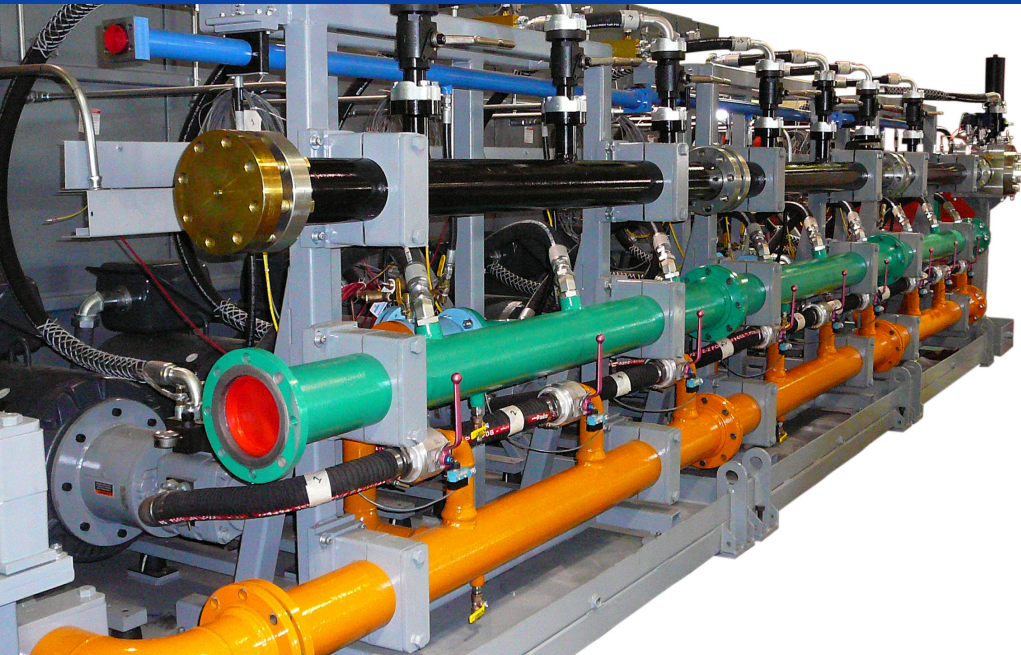


Hydraulic Power Supply



DESIGN REQUIREMENTS PER OUR CUSTOMERS' REQUEST

- **FLEXIBILITY**
HCM incorporated into HPS, various flow rates available
- **RELIABILITY**
Standard features improve reliability of HPS as well as its pricier components
- **LOW NOISE**
Optional sound enclosure to dramatically reduce noise levels
- **GREEN DESIGN**
Energy efficient, no-leak design
- **SMALL FOOTPRINT**
Vertically mounted to occupy less space
- **WORLDWIDE SERVICE CAPABILITIES**
On-site availability and the use of non-proprietary components

DTE'S HPS PRODUCT LINE OFFERS ROBUST, FLEXIBLE, AND DEPENDABLE SOLUTIONS FOR SUPPLYING HYDRAULIC POWER TO YOUR TEST SYSTEMS

Each HPS Includes:

- Low Level Float Switch
- High Temperature Switch
- Hour Meter
- E-Stop
- Electric Filter Indicator
- Water Control Valve
- All DTE hydraulic power supplies can operate on 380 VAC 50 hz through 460 VAC 60 hz with no changes

Whatever your testing needs may be, from simple components up to complex multi-axial rigs, Dynamic Testing & Equipment is here to support you every step of the way. Our experience spans many generations of engineering. Combining the wisdom and knowledge gained only from a lifetime of experience, with fresh perspectives and the most cutting-edge, technologically advanced methods. DTE is fully equipped to resolve the most challenging testing requirements.

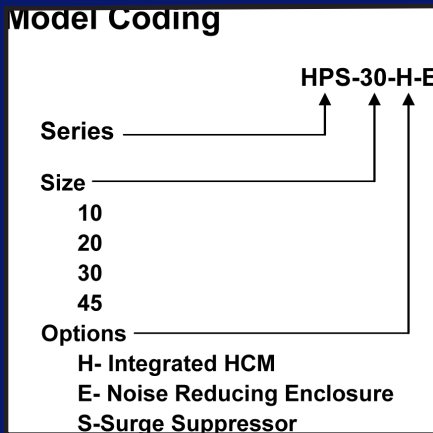


DYNAMIC TESTING & EQUIPMENT

Hydraulic Power Supply

Specifications										
Model Code	Flow Rate (GPM/LPM)		Foot Print		Motor Rating		Weight (LBS/KG)		Reservoir Size	Water Flow
	60HZ	50HZ	Inches	Meters	460VAC/60HZ	380VAC/50HZ	Full	Empty	(GAL/LITER)	(GPM/LPM)
HPS-10	10/38	8.3/31.6	42 x 54	1 x 1.4	20 HP	15 KW	2700/1230	2250/1022	75/290	5/19
HPS-20	20/76	16.6/63.2	42 x 54	1 x 1.4	40 HP	30 KW	2700/1230	2250/1022	75/290	10/38
HPS-30	30/114	25/95	40 x 54	1 x 1.4	75 HP	55 KW	3450/1560	2500/1140	125/475	15/57
HPS-45	45/170	37.5/142	40 x 54	1 x 1.4	100 HP	75 KW	3450/1560	2500/1140	125/475	22/84

All systems are designed to operate at 3000 PSI (206 Bar) or more. Water requirements are based upon 85°F (30°C) or cooler water.



Flexibility in DTE power supply:

- Often, the HPS is used to power a single test system. By incorporating the Hydraulic Control Manifold into the HPS, we reduce floor space, the number of hydraulic connections, and increase the simplicity of the system.
- A wide variety of flow rates are available to match your exact needs. Custom units also available.

Service capabilities on a worldwide scale:

- In addition to our extensive representative organization, DTE's service specialists can travel to almost any location.
- Using non-proprietary components allows customers in even the most remote regions of the world to draw on local resources.

Leaving a smaller footprint:

- By mounting the motor vertically, DTE's HPS occupies much less floor space than the competition.

Lowering noise levels:

- The sound enclosure option dramatically reduces noise levels, by 10-15 Db. It also allows easy access to HPS components.
- For facilities that are not sensitive to noise levels, DTE's HPS is available at a reduced rate, without the sound enclosure.
- We do not submerge the electric motor in hydraulic fluid. Localized hot spots in submerged electric motors oxidizes the hydraulic fluid, requiring it to be replaced annually. A submerged motor compromises serviceability and is

proprietary with high replacement costs. Our motors are not altered and service items are available from resources in your area.

- Many DTE HPS products incorporate 1200 RPM motors, greatly increasing pump life.
- Optional surge suppression reduces noise levels even further.

Many DTE features improve reliability of HPS products as well as their pricier components:

- Dual heat exchangers allow optimal cooling at both no-flow and full-flow rates. Return line heat exchangers do not provide sufficient cooling when the system is run at low flow rates. Cool hydraulic fluids improve lubrication, resulting in longer component life. Heat increases the oxidization rate of hydraulic fluids, resulting in decreased lubricating ability. Maintaining fluid temperatures at lower levels increases fluid life. Higher fluid temperatures results in a lower fluid bulk modulus which equals lower system frequencies, making system control a challenge.
- Better filtration increases reliability- 70% of fluid power component failures are due to contamination. By utilizing 3-micron absolute, non-bypass filtration, the life of the entire hydraulic system is extended. When maintained properly, our HPS product line consistently holds a cleanliness level of ISO 14/12/9, far exceeding the requirements of servo valve manufacturers. Our pressure line filtration insures your servo valves will be exposed only to the cleanest possible fluid.

Green, Earth-friendly design:

- Variable displacement piston pumps provide only the flow required, reducing energy requirements. By using air-cooled motors in lieu of oil-immersed motors, the loss of windage is reduced.
- DTE's HPS products include O-ring face seal fittings which incorporate an O-ring on both sides of the fitting. Longer thread length allows 6000 PSI pressure rating with up to 1" tube. Unlike flared fittings, ORFS fittings can be removed and reused without risk of damage to the metallic sealing surfaces.
- DTE often provides 37 degree flare connections to easily adapt to existing components.

