



JM FRICTECH INDIA PVT. LTD.

**Leading Manufacturers of Wet Brake System ,Wet Clutch System ,
Power Shuttle Clutch & Control Valves .**

HYDROSTATIC TRANSMISSION



□ Hydrostatic Transmission

Hydro Static Transmission - HST is preferred over conventional gearbox transmissions because of the stepless way in which it's speed ratio can be changed. Basically HST is Closed Loop Hydraulic System and power is transmitted using pressurized fluid. The system consists of a hydraulic pump, a hydraulic motor, and a network of hydraulic lines.

The pump takes mechanical power from the engine and converts it into hydraulic power. The pressure created by the pump is distributed equally in all directions (As per Pascal's Law). The hydraulic motor receives this pressurized fluid which converts it in to mechanical energy and generate rotational motion. It enables continuous speed change from Forward to Stop/Neutral and Reverse or vice versa.

Hydrostatic transmission allows for precise control over the speed and torque of the driven machinery. This makes systems are beneficial for a wide variety of applications, providing smooth, efficient, and cost-effective operation. Their flexibility, low maintenance needs, and ability to handle dynamic conditions make them a popular choice in industries such as agriculture, construction, and manufacturing.



Variants & Spec.

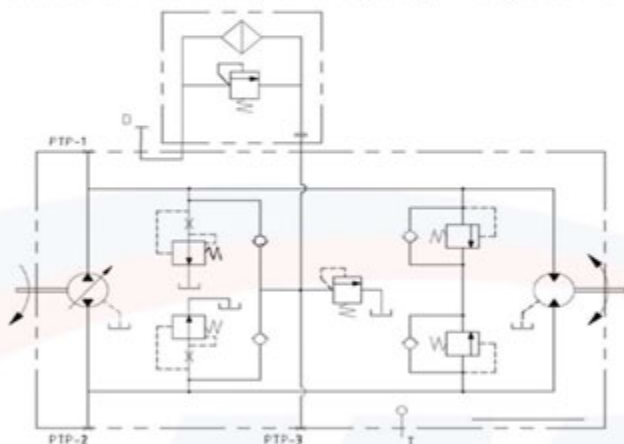


Specification	21.5	25	23.4	28	40
Displacement in "CC"	21.5	25	23.4	28	40
Center Distance (PTO to O/P shaft in mm)	90	95	105	105	105
Theoretical Output Torque (kgf.m)	9.6	13.8	11.2 13.0	13.0 16.9	22.3
Relief Setting Pressure (Kgf/cm ²)	280	350	300 350	300 380	350
Max. Input Speed (rpm)	3000	3200	3000	3000	2800
Charge Pump	NA	NA	Optional	Optional	NA



HST Hydraulic Circuit

Hydraulic circuit in the HST system is Closed Loop Circuit. Fluid discharged from the hydraulic motor outlet flows directly to the pump inlet, thus forming a power transmission loop.



Validation Capabilities

We have State of the art test lab for validating Hydro Static Transmission units.

Simulate the real time application load to the system and performance measurements.





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