

HPTO318

Microprocessor Controlled Hydraulic Clutch

The HPTO318 is a hydraulically applied dry friction clutch designed for off-highway diesel engine driven equipment. Its hydraulic design eliminates the need to adjust the clutch throughout its wear life. The HPTO318 comes in a long version (HPTO318TD) designed to be a drop-in replacement for existing market products, without the need for problematic outboard support bearings, as well as a short version (HPTO318TS) designed to be as short and compact as possible (see page 2 for dimensional information).

Wood Grinders

Rock Crushers

Dredges

Blasthole Drills

Snow Blowers

Tree Chippers

Agriculture

Road-working

Sandblasting

Clutch Controller

The microprocessor based clutch controller designed entirely by our in-house controls department allows for a consistent engagement sequence every time, extending the life of the clutch.

The HPTO318 utilizes PT Tech's BASIC3 controller which can be integrated into the equipment's control system via the SAE J1939 CAN-bus protocol. The BASIC 3 control system also incorporates the proven energy management capabilities that have been extremely successful in our wet clutches, and brings this control and protection to the dry clutch market.

The start-up sequence uses patented engagement logic involving a series of "bumps" in order to quickly bring the output inertia up to a synchronized speed with the engine while keeping the energy level in the disc pack within design limits. This allows the HPTO318 to start equipment with a large amount of inertia; even under partially jammed conditions.

The HPTO318 package increases equipment reliability and profitability with a consistent and monitored startup process every single time.

For application or technical assistance please contact PT Tech for more information.

PT TECH'S HPTO CLUTCHES

DRY CLUTCH FAMILY

HPTO8	80-140 Hp	60-105 kW
HPTO10	140-250 Hp	105-187 kW
HPTO12	250-460 Hp	187-343 kW
HPTO318	460-1050 Hp	343-783 kW

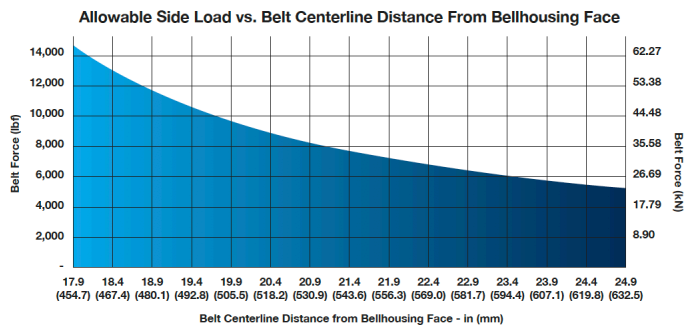
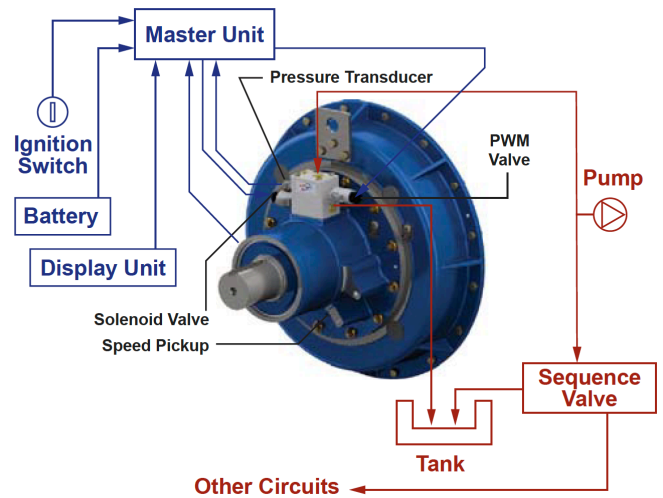
WET CLUTCH FAMILY

HPTO12w	250-475 Hp	187-355 kW
HPTO13	250-475 Hp	187-355 kW
HPTO14	475-765 Hp	354-570 kW
HPTO15	765-1050 Hp	571-783 kW
HPTO21	1050-1600 Hp	783-1193 kW

HPTO10 PRODUCT SPECIFICATIONS

Power	460hp-1050 Hp	343kW-783kW
Max. Engine Torque	5,200 lb-ft	7118 nM
Max. Speed	2,250 RPM	
Weight	HPTO318TS: 735lb HPTO318TD: 816lb	HPTO318TS: 333kg HPTO318TS: 370kg
Bellhousing	SAE #0	
Flywheel	SAE 18" Flywheel	

Hydraulic/Electrical System



DIMENSIONS

	WEIGHT	A	B	C	D	E	F	KEYWAY
HPTO318TS-101	665 [302]	21.8 [553.7]	16.65 [422.9]	5.12 [130.0]	4.62 [117.3]	Ø3.9375-3.9265 [100-99.999]	10-15/32 [266]	1 x 1/2 [25.4 x 12.7]
HPTO318TD-101	882 [400]	26.1 [663]	20.90 [530.9]	5.09 [129.5]	4.50 [114.3]	Ø4.5-4.499 [114.30-114.27]	13-1/32 [331]	1 x 1/2 [25.4 x 12.7]

* Preliminary values to be used as reference only