

MICROPROCESSOR CONTROLLED HYDRAULIC CLUTCH

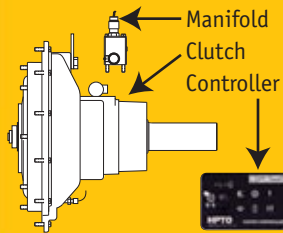
- Self adjusting for wear
- "Push button" start-up
- No Pilot bearing
- Can be remotely controlled
- Monitors and reports system status
- Prevents operator clutch abuse
- Internal rotary union allows for inline applications
- Designed to absorb shockloads



Product Specifications

Power	140-250 Hp
Torque	1500 lb-ft
Max Speed	2400 RPM
Pressure	400-3000 PSI
Weight	208 lbs
Housing	SAE # 3
Mounts to	11" Flywheel

Basic Package



The **HPT010** is hydraulically applied clutch. It's friction plates operate in a dry environment. Its hydraulic design eliminates the need to adjust the clutch throughout its wear life.

Clutch Controller

The microprocessor based clutch controller eliminates the typical service problems that are associated with operator abuse.

The start-up sequence (patent pending software) involves a series of pulses delivering up to 200% peak engine torque. This means the HPT012 can start equipment with significant inertia or even under partially jammed conditions.

The HPT010 package increases equipment reliability and profitability by eliminating the operator from the equation.



PT Tech's HPTO Clutches

Dry Clutch Family

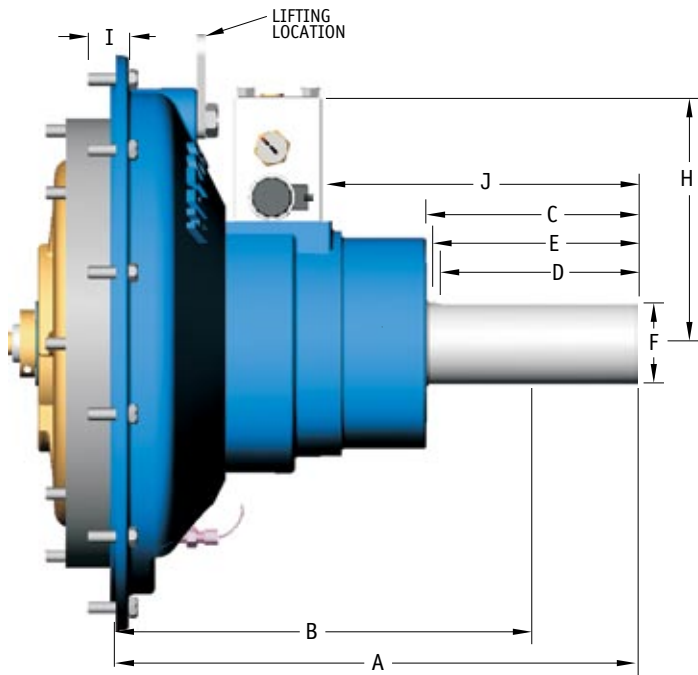
HPT08	80-170 HP
HPT010	140-250 HP
HPT012	250-460 HP

Wet Clutch Family

HPT014	400-650 HP
HPT015	1050 HP
HPT021	1600 HP

HPT010

HPT010



HPT010 Dimensional Data

	Inches	
A	Overall Length	16.11
B	Belt Centerline Distance	11.56
C	Shaft End to Housing	6.5
D	Useable Key Length	5.94
	Keyway	.625 x .3125
E	Useable Shaft Length	6.5
F	Shaft Diameter	2.5*
G	Housing Diameter	6.5
H	Shaft Centerline to Manifold Top	7.625
I	Housing face to Flywheel (industrial)	1.56
	Housing face to Flywheel (automotive)	2.62
J	Shaft End to Manifold SAE Housing	9.7
	SAE Housing	#3

* +.000 -.001

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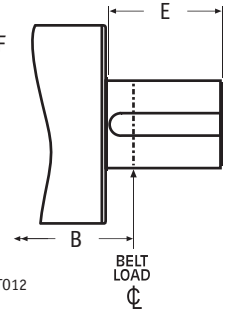
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V-belt Load Capacity

$$\text{Belt Load (lbs.)} = \frac{\text{HP} \times 252,100}{D \times N} \times \text{SF}$$

D = Pitch dia. (in.) of sheave
 N = Speed (rpm)
 SF = 1.0 - Light Duty
 1.5 - Medium Duty
 2.0 - Heavy Duty (grinders, crushers, chippers)



Max. Belt Load Capacity:
 4,000 lbs @ 2000 RPM*

NOTE: Location of load is noted on HPT012 assembly drawing

*PT Tech reserves the right to review application data.

	A	E	F	Torque
HPT010	16.1	6.5	2.5	1500 lb-ft
TwinDisc® SP-211	16.13	6.5	2.25	-

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Hydraulic/Electrical System

