Hydraulic Power Take-Off

HPTO 14-DD

Hydraulic Actuation
Oil Cooled Clutch
Microprocessor Controller
Unique Clutch Design
Pump Drive
Shockload Protection

Direct Drive
Diesel Engine Clutch

Patent Pending
**HPTO14-DD**

Hydraulic Power Take Off

Direct Drive Diesel Engine Clutch

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**Hydraulic Actuation**
- Push button engagement
- Self adjusting
- Allows for remote control

**Oil Cooled Clutch**
- Wet friction material provides long life and high thermal capacity
- Allows clutch to absorb shockloads without damaging friction plates
- Continuous oil flow to lubricate bearings
- Eliminates clutch plate corrosion during the off season
- Eliminates the need to grease bearings

**Microprocessor Controller**
- Automated engagement sequence eliminates operator from bumping the load
- Monitors clutch status to prevent damage
- Performs system diagnostics and displays findings
- Creates log of operators’ actions

**Unique Clutch Design**
- No pilot bearing
- OPERATES at low pressure with large diameter discs to absorb shockloads
- Available in either direct or belt driven configurations
- Belt driven configuration does not require an outboard bearing

**Pump Drive**
- Provides additional hydraulic capacity
- Drives are live even when clutch is disengaged
- Places pumps in a convenient location

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Enclosed oil environment allows for more thermal capacity in a small package. The HPTO14 can handle many applications that presently use a 3 plate 18" dry clutch.

HPTO14 is self-adjusting. This eliminates service problems due to a lack of or improper wear adjustment by the operator.

Service Simplified. Remove 8 bolts and the shaft/disc pack sub assembly is easily removed.

Unique rotary union design. One for clutch actuation and the other for oil circulation thru the disc pack.

Large bearings allow for substantial side loads that are present in belt drive applications. Also, no outboard bearing is needed.

Microprocessor controlled starting sequence permits equipment start-up with the push of a button thus eliminating the need for an operator to ‘bump’ the clutch.
**COMPARISON**

**Dimensional Comparison**

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<th>B</th>
<th>C</th>
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<td>7</td>
<td>3 15/32</td>
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<tr>
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**TwinDisc®** is a registered trademark of the TwinDisc Corp.

**HP Comparison**

For Heavy Duty Applications®

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</table>

Includes applications such as tub grinders, road working equipment, etc.

BASIC PACKAGE

- **Microprocessor**
- **Manifold**
- **HPTO14-DD**

NOT INCLUDED (available from PT Tech)

- **Filter**
- **Gear Pump**
- **Cooler**
- **Tank**

**Established in 1978. Serving the Grinder Market since 1990**

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