Specifications:

**T50-P**

**TURBOTWIN™**

Engine Air Starters

This selection chart shows basic starter capability by engine size. Note the chart shows four-stroke diesel engine size on the left and four-stroke, spark-ignited engine sizes on the right. Always consult TDI for application-specific capability.

**DIMENSIONAL DATA**

**TDI TURBOTWIN**

**T50-P**

- 1-1/4" NPT Inlet
- 1/4" NPT "IN" Port

Exhaust Cover Plate

16.6 (421.6) OPENED

3.81 (96.77)

8.1 (205.7)

1/4" NPT "OUT" Port

94 (23.88)

2.0 (50.8)

Pinion Travel

**T50-P Performance Curve**

14 Nozzles, Compressed Air, 11:2:1 Ratio

At 34 lbs. and 6" in diameter, the compact T50 delivers 40 hp of cranking power.
SPECIFICATIONS

Engines: Starts Engines up to 70 Liters (4200 CID)

Design Configuration: Inline; Pre-Engaged

Common Pinion Configuration: 6/8 Pitch, 11 Tooth

Mounting: SAE 3

Horsepower:
- Standard: 40 hp (30 kW) Max. at 120 psig (8.3 BAR)
- Low Pressure: 35 hp (26 kW) Max. at 100 psig (6.9 BAR)

Gear Ratio: 11.2:1

Weight/Size: 34 lbs. (15.4 kg), 6" diameter (152 mm)

Operating Pressure Range:

<table>
<thead>
<tr>
<th>MODEL</th>
<th>NOZZLES</th>
<th>PSI</th>
<th>BAR</th>
</tr>
</thead>
<tbody>
<tr>
<td>T508-P</td>
<td>8</td>
<td>45 – 150</td>
<td>3.1 – 10.3</td>
</tr>
<tr>
<td>T510-P</td>
<td>10</td>
<td>45 – 120</td>
<td>3.1 – 8.3</td>
</tr>
<tr>
<td>T514-P</td>
<td>14</td>
<td>45 – 100</td>
<td>3.1 – 6.9</td>
</tr>
</tbody>
</table>

For applications in the 60–90 psig (4.1–6.2 BAR) range, consult your TDI distributor for best nozzle configuration.

Rotation: (Facing Pinion Orientation)
- Righthand/clockwise
- Lefthand/counter clockwise

Air Supply: Air Only

Lubrication: Grease-Packed For Life, None Required

Custom: Other models and configurations available. Consult your local TDI distributor.

The T50-P's compact envelope and light weight make it a snap to install.

The Small T50 Provides More Than Enough Power to Start Any Mine Haul Truck

The T50-P provides reliable starting in any weather.

At only 34 lbs., one-person installation is a reality.