TY160 BULLDOZER

TECHNICAL CHARACTERISTICS

● AWARDED THE ISO9001:2000 SYSTEM CERTIFICATE
● FLYWHEEL HORSEPOWER: 160 HP (120 kW)/1850RPM
● OPERATING WEIGHT (STRAIGHT–TILT DOZER): 17,400 kg
● INTRODUCED KOMATSU D65A–8 BULLDOZER TECHNOLOGY, FEATURING HIGH PERFORMANCE CAPACITY, EFFICIENCY, SAFE AND RELIABLE IN OPERATION.
● WIDELY USED IN BUILDING INFRASTRUCTURE AND INDUSTRY INCLUDING LARGE MINING AREA, PORT, POWER PLANT, ROAD BUILDING ETC.
● OPTIONAL ATTACHMENTS: STRAIGHT–TILT BLADE, ANGLE BALDE, U–BLADE, ROPS CAB, CANOPY, 3–SHANK RIPPER, AIR CONDITIONER, 510 mm TRACK SHOES, 610 mm TRACK SHOES.
<table>
<thead>
<tr>
<th>Specification/Blade type</th>
<th>Straight-lift</th>
<th>Angle</th>
<th>U-Blade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Weight (kg)</td>
<td>17400</td>
<td>17700</td>
<td>17900</td>
</tr>
<tr>
<td>Min. Ground Clearance (mm)</td>
<td>400</td>
<td>400</td>
<td>400</td>
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<tr>
<td>Min. Turning Radius (m)</td>
<td>3.2</td>
<td>3.2</td>
<td>3.2</td>
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<tr>
<td>Ground Pressure (MPa)</td>
<td>0.069</td>
<td>0.070</td>
<td>0.071</td>
</tr>
<tr>
<td>Track Gauge (mm)</td>
<td>1880</td>
<td>1880</td>
<td>1880</td>
</tr>
<tr>
<td>Max. Pulling Force (KN)</td>
<td>142</td>
<td>142</td>
<td>142</td>
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<tr>
<td>Grade Ability (*)</td>
<td>30</td>
<td>30</td>
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</tbody>
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**ENGINE**

- **Model & Type** Cummins NT855-C280DFB, Shanghai SC11C8402DY, Weichai WD460178525, 6-cylinder, in-line, vertical, water cooled, 4 stroke cycle, turbocharged, electronic injection
- **Rated Power (hp)** 160
- **Rated Revolution (rpm)** 1850
- **Engine Type** Cummins, 6-139.7 x 152.4, Shanghai, 6-126.0 x 152.4, Weichai, 6-126 x 130
- **Piston Displacement (L)** 14.1, 10.5, 9.73
- **Min. Fuel Consumption (g/kWh)** 212, 222, 223
- **Max. Torque (Kfm/1rpm)** 877/1250, 830/1100, 830/1100
- **Starting Method** Starting motor 24V 7.5KW

**POWER TRANSMISSION SYSTEM**

- **Torque Converter** 3-element, 1-stage, 1-phase
- **Transmission** Bevel gear, constant meshed, forced lubrication, hand-manipulated, 3 forward and 3 reverse speeds
- **Bevel Gear** Spiral bevel gear, splash lubrication, single-stage speed reduction
- **Steering Clutch** Wet, multi-disc, spring loaded, hydraulically operated, hydraulic control
- **Steering Brake** Wet, band type, pedal hydraulic booster, with parking brakes
- **Final Drive** Double reduction of spur gear, splash lubrication

**HYDRAULIC SYSTEM**

- **Pump Type** Gear pump 07441 - 07500
- **Working Pressure (MPa)** 13.4
- **System Discharge (L/min)** at revolution of 1850 rpm
- **Working Cylinder type** Double-acting piston type
- **Working Cylinder Lift Number x Bore x Rod x Stroke (mm) x mm** 2 x 110 x 65 x 1026
- **Working Cylinder Lift Bore x Rod x Stroke (mm)** 160 x 70 x 140

**UNDERCARRIAGE SYSTEM**

- **Type** Swing type of sprayed beam, suspended structure of equalizer bar
- **Carrier Rollers** 2 (each side)
- **Track Rollers** 6 (each side) (4 single flange, 2 double flange)
- **Track Type** Sealed, assembled single groove
- **Number Of Track Shoes** 44 (each side)
- **Width Of Track Shoes (mm)** 510
- **Pitch (mm)** 203.2
- **Length Of Track on Ground (mm)** 2430

**WORK EQUIPMENT**

- **Specification/Blade type** Straight-lift, Angle, U-Blade
- **Blade Capacity (m³)** 4.3, 4.3, 8.6
- **Blade Width x Height (mm)** 3416 x 1145, 3970 x 1037, 4064 x 1386
- **Max. Lift (mm)** 1110, 1095, 1095
- **Max. Depth (mm)** 530, 545, 545
- **Max. Lift Adjustment (mm)** ≥ 860, ≥ 400, ≥ 400
- **Pitch Adjustment (*)** 55, 55, 55
- **Capability (m²/h) Theoretical value 40m²/h** 247, 247, 260
- **Weight Of Blade (kg)** 2350, 2450, 2560

**COOLANT AND LUBRICANT CAPACITY**

- **Fuel Tank Capacity (L)** 320
- **Hydraulic Tank Capacity (L)** 108
- **Engine Oil Capacity (L)** 45
- **Torque Converter, Transmission, Bevel Gear, Steering Clutch Capacity (L)** 122
- **Final Drive Capacity (L)** 33

**ripper(Optional)**

- **3-Shank Ripper**
- **Max. Digging Depth (mm)** 572
- **Max. Lift (mm)** 702
- **Shank Of Distance (mm)** 950
- **Weight (kg)** 1700

**TRAVEL SPEED**

<table>
<thead>
<tr>
<th>Speed</th>
<th>1st</th>
<th>2nd</th>
<th>3rd</th>
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<tbody>
<tr>
<td>Forward (km/h)</td>
<td>0~3.8</td>
<td>0~6.6</td>
<td>0~10.6</td>
</tr>
<tr>
<td>Reverse (km/h)</td>
<td>0~4.9</td>
<td>0~8.5</td>
<td>0~13.6</td>
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**OVERALL DIMENSIONS**