## D155PX-8

**Tier 4 Final Engine**

### Crawler Dozer

**Photos may include optional equipment.**

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>NET HORSEPOWER</strong></td>
<td>354 HP @ 1900 rpm</td>
</tr>
<tr>
<td></td>
<td>264 kW @ 1900 rpm</td>
</tr>
<tr>
<td><strong>OPERATING WEIGHT</strong></td>
<td>100,000 lb</td>
</tr>
<tr>
<td></td>
<td>45360 kg</td>
</tr>
<tr>
<td><strong>BLADE CAPACITY</strong></td>
<td>9.6 yd³ 7.3 m³ Angle blade</td>
</tr>
</tbody>
</table>
ENGINE

Model: Komatsu SAA6D140E-7**
Type: 4-cycle, water-cooled, direct injection
Aspiration: Komatsu Variable Geometry Turbocharged, air-to-air aftercooled, cooled EGR
Number of cylinders: 6
Bore x stroke: 140 mm x 165 mm
Piston displacement: 930 in³
Governor: Mid-range, electronic
Horsepower
- SAE J1995: Gross 268 kW (360 HP)
- ISO 9249 / SAE J1349*: Net 264 kW (354 HP)
Rated rpm: 1900 rpm
Fan drive type: Hydraulic
Lubrication system
- Method: Gear pump, force lubrication
- Filter: Full-flow
- Engine oil: SAE 20W-50, ISO S 6899
- Fuel tank: 264 liters
- Coolant: SAE J1401
- Final drive (each side): 31 liters
- DEF tank: 1 liter
- Damper: 1 liter
- Transaxle: 90 liters
- Final Drive: 36 liters
- Engine Oil: 164 liters
- Hydraulic Oil: 95 liters
- Electric: 2.14 m³

TORQFLOW TRANSMISSION

Komatsu's automatic TORQFLOW transmission consists of a water-cooled, 3-element, 1-stage, 1-phase, torque converter with lockup clutch, and a planetary gear, multiple-disc clutch transmission which is hydraulically actuated and force-lubricated for optimum heat dissipation. Equipped with gearshift lock lever and neutral safety switch.

<table>
<thead>
<tr>
<th>Speed</th>
<th>Forward</th>
<th>Reverse</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st</td>
<td>3.8 km/h</td>
<td>2.4 mph</td>
</tr>
<tr>
<td>2nd</td>
<td>5.6 km/h</td>
<td>3.5 mph</td>
</tr>
<tr>
<td>3rd L</td>
<td>7.5 km/h</td>
<td>4.7 mph</td>
</tr>
<tr>
<td>3rd</td>
<td>11.6 km/h</td>
<td>7.2 mph</td>
</tr>
</tbody>
</table>

STEERING SYSTEM

PCCS lever controls for all directional movements. Pushing the PCS lever forward results in forward machine travel, while pulling it rearward reverses the machine. Simply tilt the PCS lever to the left to make a left turn. Tilt it to the right for a right turn.

Hydrostatic steering system (HSS) is powered by steering planetary units and an independent hydraulic pump and motor. Counter-rotation turns are also available. Wet, multiple-disc, pedal-controlled service brakes are spring-actuated and hydraulically released. Gearshift lock lever also applies parking brakes.

Minimum turning radius: 2.14 m³

UNDERCARRIAGE

Suspension: Oscillation-type with equalizer bar and forward mounted pivot shafts
Track roller frame: Monocoque, high-tensile-strength steel construction
Track shoes: Lubricated tracks. Unique dust seals for preventing entry of foreign abrasives into pin-to-bushing clearance for extended service. Track tension easily adjusted with grease gun.

SERVICE REFILL CAPACITIES

Fuel tank: 625 ltr 165 U.S. gal
Coolant: 104 ltr 27.5 U.S. gal
Engine oil: 37 ltr 9.8 U.S. gal
Damper: 1.5 ltr 0.4 U.S. gal
Transmission, bevel gear, steering system: 90 ltr 23.8 U.S. gal
Final drive (each side): 31 ltr 8.2 U.S. gal
DEF tank: 39 ltr 10.3 U.S. gal
Hydraulic oil capacity: 95 ltr 25.1 U.S. gal
**DIMENSIONS**

<table>
<thead>
<tr>
<th>Width</th>
<th>Height</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>A1</strong> Blade (not angled)</td>
<td><strong>F</strong> Exhaust Stack</td>
<td><strong>J</strong> Track on Ground</td>
</tr>
<tr>
<td>5791 mm 19’0”</td>
<td>3385 mm 11’1”</td>
<td>3580 mm 11’9”</td>
</tr>
<tr>
<td><strong>A2</strong> Blade (angled 25 deg)</td>
<td><strong>G</strong> Operator Cab</td>
<td><strong>K</strong> Overall Track Length</td>
</tr>
<tr>
<td>5247 mm 17’3”</td>
<td>3390 mm 11’1”</td>
<td>4904 mm 16’1”</td>
</tr>
<tr>
<td><strong>B</strong> C-Frame</td>
<td><strong>H</strong> Blade Height</td>
<td><strong>L</strong> Base Tractor Length</td>
</tr>
<tr>
<td>4060 mm 13’4”</td>
<td>1353 mm 4’5”</td>
<td>5298 mm 17’5”</td>
</tr>
<tr>
<td><strong>C</strong> Over Trunnions</td>
<td><strong>I</strong> Shoe Grouser</td>
<td><strong>M</strong> Blade add to Base Tractor</td>
</tr>
<tr>
<td>3847 mm 12’8”</td>
<td>80 mm 3.1”</td>
<td>1766 mm 5’10”</td>
</tr>
<tr>
<td><strong>D</strong> Over Track Shoes</td>
<td><strong>N</strong> Winch H12E add to Base</td>
<td><strong>N</strong> Counterweight with Drawbar add to Base</td>
</tr>
<tr>
<td>(standard shoe)</td>
<td></td>
<td>1219 mm 4’0”</td>
</tr>
<tr>
<td>3365 mm 11’1”</td>
<td></td>
<td>1068 mm 3’6”</td>
</tr>
<tr>
<td><strong>E</strong> Track Gauge</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2400 mm 7’10”</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Ground clearance: 500 mm 1’8”

**HYDRAULIC SYSTEM**

Closed-center load sensing system (CLSS) designed for precise and responsive control, and for efficient simultaneous operation.

Hydraulic control unit:
All spool control valves externally mounted beside the hydraulic tank.

Variable piston pump with capacity (discharge flow) of 325 L/min 85.9 U.S. gal for steering and 320 L/min 84.6 U.S. gal for implement at rated engine rpm.

Relief valve setting

. . . . for implement 27.5 MPa 280 kg/cm² 3,980 psi
. . . . for steering 38.2 MPa 390 kg/cm² 5,550 psi

Control valves:
Positions: Blade lift: . . . . . . Raise, hold, lower, and float
Blade tilt: . . . . . . . . . . Right, hold, and left

**MACHINE WEIGHT (APPROXIMATE)**

Tractor Shipping Weight .................37100 kg 81,800 lb
Includes ROPS cab, blade lift cylinders, 965 mm (38 in) ES shoes, fixed 8-roller undercarriage, lubricants, coolant, full fuel tank, and operator.

Operating Weight .................45360 kg 100,000 lb
Includes angle blade, winch Allied H12E, ROPS cab, rear screen, 965 mm (38 in) ES shoes, fixed 8-roller undercarriage, lubricants, coolant, full fuel tank, and operator.

**DOZER EQUIPMENT**

Blade capacities per SAE J1265. Wear resistant replaceable bushings at trunnions. Moldboard constructed using high-tensile-strength steel. Blade tilt hose piping is routed inside the dozer push arm for protection.

<table>
<thead>
<tr>
<th></th>
<th>Add Length to Base Tractor</th>
<th>Blade Capacity</th>
<th>Blade Width x Height</th>
<th>Blade Width Without Blade</th>
<th>C-Frame Width @ 25 deg</th>
<th>Max. Lift Above Ground</th>
<th>Max. Drop Below Ground</th>
<th>Max. Tilt Adjustment</th>
<th>Weight Dozer Equipment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manual Angle</td>
<td>1766 mm</td>
<td>7.3 m³</td>
<td>5791 mm x 1353 mm</td>
<td>5247 mm @ 25 deg</td>
<td>4060 mm</td>
<td>1475 mm</td>
<td>765 mm</td>
<td>965 mm</td>
<td>6670 kg</td>
</tr>
<tr>
<td>Power Tilt Dozer</td>
<td>5’10”</td>
<td>9.6 yd³</td>
<td>19’0” x 4’5”</td>
<td>17’3” @ 25 deg</td>
<td>13’4”</td>
<td>4’10”</td>
<td>2’6”</td>
<td>3’2”</td>
<td>14,700 lb</td>
</tr>
</tbody>
</table>
STANDARD EQUIPMENT FOR BASE MACHINE*

- Air cleaner, double element with dust indicator
- Alternator, 140 ampere/24V
- Backup alarm
- Batteries, 200 Ah/2 x 12V
- Battery disconnect switch
- Blade lift cylinders with double dust seal
- Color monitor, LCD
- Decelerator pedal
- Engine hood
- Engine idle auto shutdown with adjustable timer
- Engine intake centrifugal precleaner
- Engine, gull-wing side covers
- Engine shutdown secondary switch
- Exhaust pipe with raincap
- Fast fuel provision
- Fenders
- Fixed roller undercarriage, wide gauge
- Front pull hook
- Fuel filter and primary filter
- Grid heater starting aid in cold weather
- High mount foot rests
- Horn, warning
- Hydraulic driven radiator cooling fan with manual reverse clean mode
- Hydraulics for dual tilt and pitch dozer
- Hydraulics for winch
- KOMTRAX® Level 5
- Komatsu Diesel Particulate Filter (KDPF)
- Variable Geometry Turbocharger (VGT)
- Komatsu Selective Catalytic Reduction (SCR)
- Locks, filter caps and covers
- Oil pressure check ports for power train
- PM service connector
- Radiator mask, double door, heavy-duty, hinged, perforated
- Radiator reserve tank
- Rear cover
- ROPS cab (1420 kg, 3,131 lb)**
- Air conditioner/heater/defroster
  - Pressurized
  - Condenser remote mounted
- Cab accessories
  - 12V power supply (2 ports)
  - Cup holder
  - Rearview mirror
  - Rear view monitoring (1 camera)
  - AM/FM Radio wiremote AUX plug (3.5 mm)
  - Lunch box holder
- Work lights
  - 2 front, hood mounted
  - 2 front, cab mounted
  - 2 rear, fender mounted
  - 2 rear, cab mounted
- Seat, air suspension, fabric, heated, low back, rotates 12.5° to right, headrest
- Seat belt, 76 mm 3”, retractable
- Seat belt indicator
- Sealed electrical connectors
- Starting motor, 11.0 kW/24V
- Steering system:
  - Hydrostatic Steering System (HSS)
- Torque converter with auto lock-up
- Track roller guards, end sections
- Track shoe assembly
  - Sealed and lubricated
  - 915 mm 38” extreme service shoes
- Transmission with auto/manual shift modes
- Underguards, heavy duty
- Water separator, fuel
- Wide core cooling package, 6 fins per inch spacing
- Dozer assembly and rear mounted equipment are not included in base machine standard equipment
- Cab meets: ROPS standard ISO 3471:2008
- FOPS Level 2 standard ISO 3449:2005

Note: Machine does not support aftermarket grade control installations (Topcon/Trimble).

OPTIONAL EQUIPMENT

- Rear Attachment
  - HD Counterweight 9-plate with rigid drawbar, 3568 kg 7,860 lb

ALLIED MANUFACTURER’S ATTACHMENTS (SHIPPED LOOSE)

- Guarding - Medford
  - Front sweeps covered bullnose 578 kg 1,275 lb
  - Front sweeps covered bullnose plus cab roof/AC guard 794 kg 1,750 lb
- Manual angle power tilt blade - Rockland
  - Hinged cab rear screen 61 kg 135 lb
  - Hinged cab side screens 75 kg 165 lb
  - Tank guards 612 kg 1,350 lb
  - Hydraulic winch with drawbar - Allied H12E 1800 kg 4,000 lb
  - 6670 kg 14,700 lb

Note: All comparisons and claims of improved performance made herein are made with respect to the prior Komatsu model unless otherwise specifically stated.