D85E-SS-2

FLYWHEEL HORSEPOWER: 215 HP/1950 RPM.
OPERATING WEIGHT (With angledozer, winch and canopy): 21,490 kg (47,380 lb)

The Advance SKIDDER

- High Productivity
- High Maneuverability
- Easy Maintenance

Komatsu
SPECIFICATION

ENGINE
KOMATSU S6D125E-2: 4-stroke cycle, water-cooled, turbo-charged diesel engines. 6 cylinders with 125 mm 4.92" bore X 150 mm stroke and 11.04 ltr. 674 cu.in piston displacement. Flywheel horsepower 161 kW/215 HP at 1550 RPM. Direct-injection fuel system. All-speed mechanical governor. Forced lubrication driven by gear pump. Full-flow filter for lube purification. Dry-type air cleaner with automatic dust evacuator and dust indicator. 24V/7.5 kW electrical starter motor. 24V/35A brushless type alternator. 2 X 12V/180AH batteries.

TORQFLOW TRANSMISSION
KOMATSU TORQFLOW transmission consists of a water cooled, 3-element, 1-stage, 1-phase torque converter and a planetary gear, multiple-disc clutch transmission which is hydraulically controlled and force-lubricated for optimum heat dissipation. It offers 3 forward and 3 reverse speeds.

<table>
<thead>
<tr>
<th>Travel speeds</th>
<th>Forward</th>
<th>Reverse</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st</td>
<td>0 - 3.3 km/h 2.4 MPH</td>
<td>0 - 5.3 km/h 3.1 MPH</td>
</tr>
<tr>
<td>2nd</td>
<td>0 - 6.3 km/h 4.2 MPH</td>
<td>0 - 8.3 km/h 5.3 MPH</td>
</tr>
<tr>
<td>3rd</td>
<td>0 - 10.6 km/h 6.6 MPH</td>
<td>0 - 13.4 km/h 8.3 MPH</td>
</tr>
</tbody>
</table>

FINAL DRIVES
Double-reduction final drive of spur and planetary gears to minimize transmission of shocks to power-train component. Segmented sprockets are bolt-on type for easy in-the-field replacement.

UNDERCARRIAGE
Suspension: Oscillation-type equalizer bar
Track roller frame: Monocoque construction
Rollers and idlers: Lubricated center/rail rollers and idlers are sealed with floating seals.
Number of track rollers (each side): 8
Number of carrier rollers (each side): 2
Track shoes: Sealed lubricated track type assembled single grouser shoes. Unique dust seals for preventing entry of foreign abrasives into pin-to-bushing clear ance for extended service. Track tension easily adjusted with grease gun.

| Number of shoes (each side) | 42 |
| Grouser height              | 65 mm 2.6" |
| Shoe width                  | 610 mm 24" |
| Ground contact area         | 36400 cm² 5,642 sq in |
| Ground pressure (tractor)   | 42.2 kPa 0.43 kg/cm² 6.11 PSI |

COOLANT & LUBRICANT CAPACITY (refilling)

| Coolant:                      | 50 ltr. 13.2 U.S. gal |
| Fuel tank:                    | 407 ltr. 108 U.S. gal |
| Engine Oil:                   | 38 ltr. 10.0 U.S. gal |
| Damper:                       | 2.4 ltr. 0.6 U.S. gal |
| Torque converter, transmission, bevel gear and steering system | 50 ltr. 13.2 U.S. gal |
| Final drive (each side)       | 27 ltr. 7.1 U.S. gal |

OPERATING WEIGHT (approximate)
Tractor weight: including rated capacity of lubricant, coolant, full fuel tank, operator and standard equipment 15740 kg 34705 lb
Operating weight: including angledozer, loging spec canopy, towing winch, operator, standard equipment, rated capacity of lubricant, coolant and full fuel tank 21490 kg 47380 lb
Ground pressure 57.88 kPa 0.59 kg/cm² 8.36 PSI

STANDARD EQUIPMENT
- Torque converter
- TORQFLOW transmission
- wet-type steering clutches & brakes
- 2050 mm 69" track gauge
- Segmented sprockets
- 610 mm 24" single grouser shoes (lubricated track)
- 0-roller track frames
- hydraulic track adjusters
- dry-type air cleaner with dust evacuator and dust indicator
- 35 A brushless type alternator
- 24V/7.5 kW electric starting motor
- deccelerator pedal
- adjustable seat
- track roller guards, end section
- single-lever steering control/directional speed
- blower fan
- lighting system
- radiator reserve tank
- gull-wing engine side covers
- warning horn
- batteries (2 X 12V, 150 AH)
- heavy duty radiator mask
- hinged underguards
- water separator

STEERING
Single-lever controls for all directional movements and speed control. Simply tilt the lever to the left to make a left turn. Tilt it to the right to get a right turn. Pushing the lever forward result machine’s forward. While pulling it toward the operator reverses the machine, and twisting it will change the speed easily. Wet multiple disc steering brake are spring-actuated and hydraulically released. Steering brakes also function as service and parking brakes. Min. turning radius 3.4 m 11’2’’
**DIMENSIONS**

Unit: mm (ft/in)

**HYDRAULIC SYSTEM**

Hydraulic control unit: all spool-type control valves externally mounted beside the hydraulic tank.

Gear-type hydraulic pump with capacity (discharge flow) of 180 ltr. 47.5 U.S. gal/min. at rated engine RPM.

Relief valve setting: 20.6 Mpa 210 kg/cm² /2,990 PSI

Control valve

- Spool-type control valve for angledozer
  - Position: Blade lift ______________geometry. Raise, hold, lower, and float

**Hydraulic cylinders**

Double-acting. Piston type

<table>
<thead>
<tr>
<th>Number of Cylinders</th>
<th>Bore</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blade lift</td>
<td>2</td>
</tr>
</tbody>
</table>

**Hydraulic oil capacity (refilling)**

Angledozer ______________55 ltr. 14.5 U.S. gal

**DOZER EQUIPMENT**

<table>
<thead>
<tr>
<th>* Overall length with dozer</th>
<th>** Blade capacity</th>
<th>Blade length X height</th>
<th>Max. lift above ground</th>
<th>Max. drop below ground</th>
<th>Max. tilt adjustment</th>
<th>Additional weight</th>
<th>Additional ground pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Angledozer</td>
<td>5930</td>
<td>3.4 m³</td>
<td>4370 mm X 1070 mm</td>
<td>1255 mm</td>
<td>485 mm</td>
<td>400 mm</td>
<td>2890 kg</td>
</tr>
</tbody>
</table>

* Without towing winch and cab guard
** Blade capacities are based on the SAE recommendation practice J1265

**ATTACHMENTS TOWING WINCH**

Type: Single-drum, reversible, gear-driven, hydraulically controlled.

Additional weight ______________1320 kg 2906 lb (with cable)

Cable dia x length ______________28.5 mm x 50 m 1.12" x 164"

Line pull:

- Bare drum ______________31400 kg 69,220 lb/308 kN
- Full drum ______________18200 kg 40,120 lb/178 kN

Transmission/clutch: Wet, multiple-disc clutch, hydraulically controlled, 1-forward and 1-reverse rotation

Brake: Wet, multiple-disc, spring actuated hydraulically released, adjustment free

Standard equipment may vary for each country, and this specification sheet may contain attachments and optional equipment that are not available in your area. Please consult PT UNITED TRACTORS Tbk for detailed information.

**UNITED TRACTORS**

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