D65EX-12
D65PX-12

FLYWHEEL HORSEPOWER @ 1950 rpm
D65EX/PX-12 142 KW 190 HP

OPERATING WEIGHT:
D65EX-12 STANDARD TRACK 19295 kg 42,540 lb
LONG TRACK 20030 kg 44,160 lb
D65PX-12 20315 kg 44,790 lb

CRAWLER DOZER

Photo may include optional equipment
D65EX-12, D65PX-12 Crawler Dozer

**Walk-Around**

*The Komatsu S6D125E-2 turbocharged diesel engine* provides an output of 142 kW (190 HP) with excellent productivity, while meeting current emissions standards.

Left hand *joystick* controls all tractor motion. Right hand joystick controls all blade movements.

**Gull-wing** engine side doors for easy and safer servicing.

High capacity *Semi-U Tilt dozer* (for D65EX), *Straight Tilt dozer* (for D65PX), combine the highest power in its class with outstanding productivity.

**Blade tilt lines** completely protected.

*Komatsu Torqflow transmission* offers single lever control of speed (3 forward and 3 reverse) and directional changes.

Forward mounted *pivot shafts* isolate final drives from blade loads.
Electronic Monitoring System prevents minor problems from developing into major ones.

Optional hexagonal, low noise cab with viscous damping mounts provides unsurpassed operator comfort and visibility.

Wet, multiple-disc brakes eliminates brake-band adjustments for maintenance-free operation.

Hydrostatic Steering System (HSS) provides smooth, quick, and powerful control in varying ground conditions.

Bolt-on segmented sprocket teeth for easy in-the-field replacement

Modular power train for increased serviceability and durability.

Photo may include optional equipment.
All steering, direction, and speed changes are made by a left-hand single joystick control. If the operator wants to move the machine forward and to the left, he simply moves the joystick forward and to the left. If he desires a gear change, he merely twists his wrist. The machine responds to the movement of the lever providing the operator with the feeling of natural control with Komatsu’s joystick.

Low-Noise Design
For smoother riding comfort, power train components and hydraulic control valves are mounted to the frame with rubber pads to soften vibration and shut out noise. Since the D65 employs joysticks, the walk-through operator compartment is uncluttered for smooth entry and exit. An adjustable seat with backrest is standard equipment.

Three-stage height adjustable armrests
Three-stage height adjustable arm rests and relocated fuel control lever provide comfortable operation and increased leg space.

Hexagonal Pressurized Cab (Optional)
Air filters and a higher internal air pressure combine to prevent external dust from entering the cab. In addition, the cab’s hexagonal design provides excellent front, side, and rear visibility. The viscous dampering cab mounts suspension soften shocks for operator comfort and extends component life.

Easy-to-Operate Work Equipment Control Lever
With the Closed-center Load Sensing (CLSS) hydraulic system, blade lever stroke is directly proportional with blade speed, regardless of the load and travel speed. This results in superb, fine controllability.

Benefits of CLSS
- More precise and responsive operation due to the pressure compensation valve.
- Reduced fuel consumption by discharging only the required amount of oil from the pump.
- The work equipment moves smoothly for operations such as side-cutting even when priority is given to steering.

CLSS for D65EX-12 and D65PX-12
Hydrostatic Steering System—Smooth, Powerful Turning

For models D65EX-12 and D65PX-12 the Hydraulic Steering System (HSS) distributes power to both tracks without power interruption on the inside track. When the machine turns the outside track moves faster and the inside slower, for smooth, powerful turns. The left and right tracks can be counter-rotated for a minimum turning radius providing excellent maneuverability. Shock-free steering reduces machine vibration and minimizes operator fatigue.

- Turning while dozing—the machine turns by driving the left and right tracks under power at different speeds allowing the machine to travel at the same speed as in straight dozing.
- Side-cutting—when side-loading the blade, straight travel can be maintained utilizing HSS.
- On downhill slopes—the machine doesn’t require cross steering. The joystick provides the same steering response on downhill slopes as on flat ground.
- Grading—can be done efficiently without damaging the ground, because the inside track is not locked during turning.
- Counter-rotates for exceptional maneuverability.

Steering Functions

- Forward and reverse
- Right and left steering
- First, to second, to third shifting

Blade Functions

- Lifting and lowering
- Tilting

Ripper Functions (Optional)

- Raise and lower

Electronic Monitoring System

An electronic monitoring system prevents minor problems from developing into major ones. All meters and gauges are controlled by a microcomputer, which provides a wide indication range for an easier, more precise reading.

- Charge Light
- Engine Oil Pressure Caution Light
- Engine Water Temperature Caution Light
- Engine Water Temperature Gauge
- Fuel Gauge
- Intake Air Heater Light
- Monitor Caution Cancel Switch
- Monitor Caution Light
- Service Meter
- Transmission Oil Temperature Caution Light
- Transmission Oil Temperature Gauge
- Transmission Gear Indicator
Undercarriage

Low Drive and Long Track Undercarriage
Komatsu’s design is extraordinarily tough and offers excellent grading ability and stability. Large-diameter bushings, increased track link heights, and improved oil-seals help to increase undercarriage durability.

Improvements
Numerous improvements to increase undercarriage reliability and durability have been incorporated. Serviceability has also been improved with the addition of remote greasing of the equalizer bar center pin.

Addition of Long Track Version (EX Series)
A long track version (the same length of track on ground with PX models) has been added to D65EX to increase operational stability.
Frame

Flat Bottom Frame

A flat bottom frame, the monocoque track frames and forward-mounted pivot shafts provide good maneuverability in muddy terrain by preventing mud from building up under the frame.

Modular Designed Power Train Units

The modular design allows easy removal and installation of any individual unit for shorter downtime.

Wet, Multiple-Disc Brakes

Eliminates brake-band adjustments for maintenance-free operation.

Durability

Because fewer components mean greater reliability, we've designed a simple hull frame made of a thick, single plate. Track frames have a large-section construction for maximum rigidity. Even the box-section construction of the blade back beam is reinforced, all with durability in mind.

Reservoir

A radiator coolant reservoir makes it easier to check the coolant level and eliminates frequent refilling.

Test Ports

Oil pressure test ports for the power train are centralized on the right hand side of the operator platform for easy access.

Wet, multiple-disc brakes eliminate brake adjustment for maintenance-free operation.
Komatsu S6D125E-2 Turbocharged Diesel Engine

**Powerful Engine**

A powerful S6D125E-2 turbocharged diesel engine provides a massive output of 142 kW **190 HP**. The engine power is transmitted smoothly to the final drives via a high-efficiency torque converter. This engine also meets current emissions standards, without sacrificing power or machine productivity.

**Gull-Wing Engine Side Covers**

A gas-spring cylinder opens the gull-wing engine side covers widely, allowing the engine and auxiliary components to be easily checked.
**ENGINE**

Model: D65EX, PX-12 .......................... Komatsu S6D125E-2
Type .......................... 4-stroke cycle, water-cooled, emissionized, direct injection

Aspiration: D65EX, PX-12 ....................... Turbocharged engine
Number of cylinders .......................... 6
Bore .......................... 125 mm 4.92”
Stroke .......................... 150 mm 5.91”
Piston displacement .......................... 11.04 ltr 674 in³
Gross horsepower*: D65EX, PX-12 .......................... 153 kW 205 HP @ 1950 rpm
Net flywheel horsepower*:
D65EX, PX-12 .......................... 142 kW 190 HP @ 1950 rpm

Direct injection fuel system. All-speed mechanical governor. Forced lubrication driven by gear pump. Full-flow for lube purification. Direct injection system.

Double-reduction final drives of spur gear and planetary gears to minimize transmission of shocks to power train components. Segmented sprocket are bolt-on for easy in-the-field replacement.

**TORQFLOW TRANSMISSION**

Komatsu’s 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 actuated and force-lubricated for optimum heat dissipation. Joystick control of gears (3 forward and 3 reverse) and directional steering changes. Gearshift lock lever and neutral safety switch prevent machine from accidental starts.

- Track tension is easily adjusted with a grease gun.
- Pin-to-bushing clearances for extended service.
- Lubricated tracks. Unique dust seals for preventing entry of foreign abrasives into pin-to-bushing clearances for extended service.

- Track length (Tractor) mm cm 2.7 m 272 8.11 psi 8.11 6.97 3.98
- Ground pressure (Tractor) kPa kgf/cm² psi 55.9 48.1 27.5
- Track shoes .......................... Lubricated tracks. Unique dust seals for preventing entry of foreign abrasives into pin-to-bushing clearances for extended service.

**UNDERCARRIAGE**

Suspension: Oscillation with equalizer bar and forward mounted pivot shafts
Track roller frame: Monocoque, large section, durable construction

Number of carrier rollers (each side) .......................... 2
Track shoes: Lubricated tracks. Unique dust seals for preventing entry of foreign abrasives into pin-to-bushing clearances for extended service.
Track tension is easily adjusted with a grease gun.

<table>
<thead>
<tr>
<th>Travel speed</th>
<th>Forward</th>
<th>Reverse</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st</td>
<td>0–3.9 km/h 0–2.4 mph</td>
<td>0–5.0 km/h 0–3.1 mph</td>
</tr>
<tr>
<td>2nd</td>
<td>0–6.8 km/h 0–4.2 mph</td>
<td>0–8.6 km/h 0–5.3 mph</td>
</tr>
<tr>
<td>3rd</td>
<td>0–10.6 km/h 0–6.6 mph</td>
<td>0–13.4 km/h 0–8.3 mph</td>
</tr>
</tbody>
</table>

**FINAL DRIVE**

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

The Hydrostatic Steering System (HSS) is comprised of a hydraulic pump and motor. This design allows for counter rotation under certain ground conditions. Wet, multiple-disc, pedal-controlled service brakes are spring-actuated and hydraulically-released. The directional and gear control joystick lock lever also applies the brakes.

- Minimum turning radius*: D65EX-12 .......................... 2.2 m 7’3”
- D65EX-12 Long Track: .......................... 2.2 m 7’3”
- D65PX-12: .......................... 2.7 m 8’10”

As measured by track marks on ground.
Dimension with semi-U dozer and multi-shank ripper (D65EX/EX LT) and straight tilt dozer (D65PX).

*ROPS canopy without cab.

<table>
<thead>
<tr>
<th></th>
<th>D65EX-12</th>
<th>D65EX-12 LT</th>
<th>D65PX-12</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>5440 mm</td>
<td>5440 mm</td>
<td>5520 mm</td>
</tr>
<tr>
<td>B</td>
<td>1880 mm</td>
<td>1880 mm</td>
<td>2050 mm</td>
</tr>
<tr>
<td>C</td>
<td>3165 mm</td>
<td>3165 mm</td>
<td>3165 mm</td>
</tr>
<tr>
<td>D</td>
<td>2990 mm</td>
<td>2990 mm</td>
<td>2990 mm</td>
</tr>
<tr>
<td>E</td>
<td>2675 mm</td>
<td>3285 mm</td>
<td>3285 mm</td>
</tr>
<tr>
<td>F</td>
<td>510 mm</td>
<td>510 mm</td>
<td>915 mm</td>
</tr>
<tr>
<td>G</td>
<td>65 mm</td>
<td>65 mm</td>
<td>65 mm</td>
</tr>
<tr>
<td>H</td>
<td>1270 mm</td>
<td>1270 mm</td>
<td>1270 mm</td>
</tr>
<tr>
<td>H'</td>
<td>1830 mm</td>
<td>1830 mm</td>
<td>1830 mm</td>
</tr>
<tr>
<td>I</td>
<td>1490 mm</td>
<td>1490 mm</td>
<td>1490 mm</td>
</tr>
<tr>
<td>I'</td>
<td>1600 mm</td>
<td>1600 mm</td>
<td>1600 mm</td>
</tr>
<tr>
<td>J</td>
<td>2300 mm</td>
<td>2300 mm</td>
<td>2300 mm</td>
</tr>
<tr>
<td>K</td>
<td>1220 mm</td>
<td>1220 mm</td>
<td>N/A</td>
</tr>
<tr>
<td>L</td>
<td>2170 mm</td>
<td>2170 mm</td>
<td>N/A</td>
</tr>
<tr>
<td>M</td>
<td>950 mm</td>
<td>950 mm</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Ground clearance .......... .405 mm 1'4"

**COOLANT AND LUBRICANT CAPACITY (REFILLING)**

- Coolant: 52 ltr 13.7 U.S. gal
- Fuel tank: 406 ltr 107.3 U.S. gal
- Engine oil: 38 ltr 10.0 U.S. gal
- Damper: 1.7 ltr 0.4 U.S. gal
- Transmission, bevel gear, and steering system: 48 ltr 12.7 U.S. gal
- Final drive (each side): D65EX-12 24 ltr 6.3 U.S. gal, D65PX-12 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.

- D65EX-12 Standard Track: 15670 kg 34,550 lb
- Long Track: 16405 kg 36,170 lb
- D65PX-12: 16950 kg 37,370 lb

**Operating weight:** Including semi U-tilt dozer (E/EX) or straight tilt dozer (P/PX), ROPS canopy, steel cab, operator, standard equipment, rated capacity of lubricant, coolant, and full fuel tank.

- D65EX-12 Standard Track: 19295 kg 42,540 lb
- Long Track: 20030 kg 44,160 lb
- D65PX-12: 20315 kg 44,790 lb
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.

Type of pump:
D65EX/PX . . . . . . . . . . . . . . . . Variable displacement plunger-type

Capacity (discharge flow at rated engine rpm): D65EX/D65PX. . . . . . . . . . . . . . . . 210 ltr/min 55.5 U.S. gal/min

Relief valve setting . . . . . . . . . . . . . . 20.6 MPa 210 kg/cm² 2,990 psi

Hydraulic cylinders . . . . . . . . . . . . . . Double-acting, piston

Key:
- Blade capacities are based on the SAE recommendation practice J1265.
-2 Indicates additional ground pressure to D65EX/D65PX tractor. (unit: kPa/kgf/cm²/psi)

<table>
<thead>
<tr>
<th>Number of cylinders</th>
<th>Bore</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blade lift</td>
<td>2</td>
</tr>
<tr>
<td>Blade tilt</td>
<td>1</td>
</tr>
<tr>
<td>Ripper lift</td>
<td>1</td>
</tr>
</tbody>
</table>

Control valves:
Spool control valve for semi-U tilt dozer and straight tilt dozer.

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

Spool control valve for angle dozer.

Positions:
- Blade lift . . . . . . . . . . . . . . . . . . . . . . . . Raise, hold, lower, and float

Additional control valve for multi-shank ripper

Positions:
- Ripper lift . . . . . . . . . . . . . . . . . . . . . . . . Raise, hold, and lower

Hydraulic oil capacity (refilling):
- Semi-U tilt dozer . . . . . . . . . . . . . . . . . . . . . . . 55.0 ltr 14.5 U.S. gal
- Straight tilt dozer . . . . . . . . . . . . . . . . . . . . . . 55.0 ltr 14.5 U.S. gal
- Angle tilt dozer . . . . . . . . . . . . . . . . . . . . . . . 55.0 ltr 14.5 U.S. gal
- Multi-shank ripper . . . . . . . . . . . . . . . . . . . . . . 55.0 ltr 14.5 U.S. gal

DOZER EQUIPMENT

Use of high tensile strength steel in moldboard for strengthened blade construction.

<table>
<thead>
<tr>
<th>Overall Length With Dozer</th>
<th>Blade Capacity*</th>
<th>Blade Width x Height</th>
<th>Max. Lift</th>
<th>Max. Drop</th>
<th>Max. Tilt Adjustment</th>
<th>Additional Weight</th>
<th>Additional Ground Pressure*2</th>
</tr>
</thead>
<tbody>
<tr>
<td>D65EX-12 Semi-U Tilt Dozer</td>
<td>5440</td>
<td>5.61</td>
<td>3460 x 1425</td>
<td>1105</td>
<td>440</td>
<td>465</td>
<td>2280</td>
</tr>
<tr>
<td>D65EX-12 Straight Tilt Dozer</td>
<td>5260</td>
<td>3.89</td>
<td>3415 x 1225</td>
<td>1105</td>
<td>440</td>
<td>460</td>
<td>2000</td>
</tr>
<tr>
<td>D65EX-12 Angle Dozer</td>
<td>5470</td>
<td>3.55</td>
<td>3970 x 1100</td>
<td>1185</td>
<td>450</td>
<td>400</td>
<td>2280</td>
</tr>
<tr>
<td>D65PX-12 Straight Tilt Dozer</td>
<td>5520</td>
<td>3.69</td>
<td>3970 x 1100</td>
<td>1105</td>
<td>540</td>
<td>450</td>
<td>2030</td>
</tr>
</tbody>
</table>

Remarks:
- Blade capacities are based on the SAE recommendation practice J1265.
-2 Indicates additional ground pressure to D65EX/D65PX tractor. (unit: kPa/kgf/cm²/psi)

STANDARD EQUIPMENT FOR BASE MACHINE

- Air cleaner, double element with dust indicator
- Alternator, 35 ampere
- Backup alarm
- Batteries, 140 Ah/2 x 12V
- Blower cooling fan
- Decelerator pedal
- Electronic instrument monitor panel
- Engine hood
- Engine side covers, gull-wing
- Fenders
- Front pull hook
- High mount foot rests
- Intake pipe with preheater
- Lighting system, (includes 2 front, 1 rear)
- Locks, filler caps and covers
- Mono-lever steering
- Muffler with curved exhaust pipe
- Pressure test ports for power train
- Radiator guard door, flat
- Radiator reserve tank
- Rear cover
- ROPS mounting brackets
- Seat belt, retractable
- Starting motor, 7.5 kW/24V
- Steering system: –HSS (Hydrostatic Steering System)
- Suspension seat, with high-back
- Track roller guard, center section (EX Long Track, PX)
- Track roller guard, end sections (EX)
- Track shoe assembly
  - Heavy-Duty sealed and lubricated track
    - 510 mm 20° single grouser shoe (EX, EX Long Track)
    - 915 mm 36.0° single grouser shoe (PX)
- Underguards, oil pan and transmission
### Optional Equipment

- Air conditioner
- AR track assembly (abrasion resistant bushings)
- Cab
- Cab accessories
  - Cup holder
  - Lunch box holder
  - Rear view mirror
- Heater and defroster
- Hitch type drawbar
- Hydraulics for ripper (EX, EX LT)
- Hydraulics for till dozer
- Light working, cab additional
- Radiator core protective grid
- Rigid type drawbar
- ROPS canopy
- ROPS canopy with sweep
- Suspension seat, reclining with fabric material (cab only)
- Track roller guard, full length
- Underguard, heavy-duty
- Vandalism protection cover for instrument panel
- Water separator

### ROPS Canopy

- Additional weight 420 kg 930 lb
- Roof dimensions:
  - Length: 1830 mm 6'0"
  - Width: 1600 mm 5'3"
  - Height: 1700 mm 5'7"
- Additional ground pressure
  - D65EX: 1.5 kPa/0.015 kg/cm²/0.21 psi
  - D65EX Long Track: 1.3 kPa/0.013 kg/cm²/0.18 psi
  - D65PX: 0.7 kPa/0.007 kg/cm²/0.10 psi

### Steel Cab

- Additional weight 285 kg 630 lb
- All weather, enclosed pressurized cab
- Dimensions:
  - Length: 1765 mm 5'9"
  - Width: 1720 mm 5'8"
  - Height from floor to ceiling: 1515 mm 5'0"
- Additional ground pressure
  - D65EX: 1.0 kPa/0.010 kg/cm²/0.14 psi
  - D65EX Long Track: 0.9 kPa/0.009 kg/cm²/0.13 psi
  - D65PX: 0.6 kPa/0.006 kg/cm²/0.09 psi

### Multi-shank Ripper (for D65EX/EX LT)

- Additional weight (including hydraulic control unit): 1680 kg 3,700 lb
- Beam length: 2170 mm 7'1"
- Maximum digging depth: 595 mm 1'11"
- Maximum lift above ground: 640 mm 2'1"
- Additional ground pressure
  - D65EX: 5.9 kPa/0.06 kg/cm²/0.85 psi
  - D65EX Long Track: 4.9 kPa/0.05 kg/cm²/0.71 psi

### ROPS Canopy for Cab

- Additional weight 340 kg 750 lb
- Meets ISO 3471, SAE J1040, SAE J395 ROPS and ISO 3449 FOPS standards
- Roof dimensions:
  - Length: 1270 mm 4'2"
  - Width: 1490 mm 4'11"
  - Height from operator compartment floor: 1705 mm 5'7"
- Additional ground pressure
  - D65EX: 1.2 kPa/0.012 kg/cm²/0.17 psi
  - D65EX Long Track: 1.0 kPa/0.010 kg/cm²/0.14 psi
  - D65PX: 0.6 kPa/0.006 kg/cm²/0.09 psi

### Shoes

<table>
<thead>
<tr>
<th>Models</th>
<th>Shoe</th>
<th>Additional weight</th>
<th>Ground contact area</th>
<th>Additional ground pressure to tractor</th>
</tr>
</thead>
<tbody>
<tr>
<td>D65EX Standard Track</td>
<td>560 mm 22.0” single-grouser shoe</td>
<td>+120 kg/+260 lb</td>
<td>29960 cm²/4,644 in²</td>
<td>-3.9 kPa/-0.04 kg/cm²/-0.57 psi</td>
</tr>
<tr>
<td>D65EX Long Track</td>
<td>610 mm 24.0” single-grouser shoe</td>
<td>+230 kg/+510 lb</td>
<td>32635 cm²/5,058 in²</td>
<td>-7.8 kPa/-0.08 kg/cm²/-1.14 psi</td>
</tr>
<tr>
<td>D65PX</td>
<td>660 mm 26.0” single-grouser shoe</td>
<td>+360 kg/+790 lb</td>
<td>35310 cm²/5,473 in²</td>
<td>-11.8 kPa/-0.12 kg/cm²/-1.71 psi</td>
</tr>
<tr>
<td>D65EX Long Track</td>
<td>560 mm 22.0” single-grouser shoe</td>
<td>+140 kg/+310 lb</td>
<td>36790 cm²/5,702 in²</td>
<td>-3.9 kPa/-0.04 kg/cm²/-0.57 psi</td>
</tr>
<tr>
<td>D65EX Long Track</td>
<td>610 mm 24.0” single-grouser shoe</td>
<td>+270 kg/+600 lb</td>
<td>40075 cm²/6,212 in²</td>
<td>-6.9 kPa/-0.07 kg/cm²/-1.00 psi</td>
</tr>
<tr>
<td>D65PX</td>
<td>950 mm 37.4” circular-arc shoe</td>
<td>+50 kg/+110 lb</td>
<td>62420 cm²/9,675 in²</td>
<td>-1.0 kPa/-0.01 kg/cm²/-0.14 psi</td>
</tr>
</tbody>
</table>

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www.KomatsuAmerica.com

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