D65EX-12
D65EX-12 LT
D65PX-12

FLYWHEEL HORSEPOWER
142 kW 190 HP @ 1950 rpm

OPERATING WEIGHT
D65EX-12: 18575 kg 40,960 lb
D65EX-12 LT: 19310 kg 42,475 lb
D65PX-12: 19615 kg 43,250 lb

CRAWLER DOZER

D65EX/ PX-12
Hydrostatic Steering System (HSS) provides smooth, quick, and powerful control in varying ground conditions.

Hexagonal, low noise cab with viscous mounts provides unsurpassed operator comfort and visibility.

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

Forward mounted pivot shafts isolate final drives from blade loads.

Modular power train for increased serviceability and durability.

Blade tilt lines completely protected.

Left hand joystick controls all tractor motion.
**Electronic Monitoring System** prevents minor problems from developing into major ones.

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

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

**FLYWHEEL HORSEPOWER**
142 kW 190 HP @ 1950 rpm

**OPERATING WEIGHT**
- D65EX-12: 18575 kg 40,960 lb
- D65EX-12 LT: 19310 kg 42,475 lb
- D65PX-12: 19615 kg 43,250 lb

**BLADE CAPACITY**
- D65EX-12 (ANGLE-DOZER): 3.55 m³ 4.64 yd³
- D65EX-12 (STRAIGHT-TILTDOZER): 3.89 m³ 5.09 yd³
- D65EX-12 (SEMI-U TILTDOZER): 5.61 m³ 7.34 yd³
- D65EX-12 LT (SEMI-U TILTDOZER): 5.61 m³ 7.34 yd³
- D65PX-12 (STRAIGHT-TILTDOZER): 3.69 m³ 4.83 yd³

**Standard length** (D65EX-12), **long track** (D65EX-12 LT), and **low ground pressure** (D65PX-12) versions available. Low drive design provides outstanding stability and gradability.

**High capacity dozer blades** combined with highest power in class provide outstanding productivity.
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. And, because these models employ joysticks, the walk-through operator compartment is uncluttered for smooth entry and exit. A suspension seat with backrest is standard equipment.

Hexagonal Pressurized Cab (Optional)
This is another added comfort feature. 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, sides, and rear visibility. Viscous damper cab suspension softens shocks for operator comfort and extends component life.

Easy-to-Operate Work Equipment Control Lever
- A PPC valve is used with the right joystick blade control. This improves operator comfort because of reduced operating effort and stroke.
- 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.
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.

Hydrostatic Steering System—Smooth, Powerful Turning

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.
Undercarriage

Low Drive and Long Track Undercarriage
It 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.

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

Improvements
Numerous improvements to increase undercarriage reliability and durability have been incorporated. Serviceability has also been improved with the addition of remote greasing of equalizer bar center pin.
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 allow easy removal and installation of any individual unit for shorter downtime.

Wet, Multiple-Disc Brakes
Eliminate 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.

Test Ports

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

Oil pressure test ports for the power train are centralized on the right hand side of the operator platform for easy access.
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. And this engine also meets current emissions standards, without sacrificing power or machine productivity.

**Gull-Wing Engine Side Covers**
With a gas-spring cylinder that opens widely, the engine and the auxiliary components can be checked easily.
**Engine**

- Model: Komatsu S6D125E-2
- Type: 4-stroke cycle, water-cooled, emissionized, turbocharged diesel engine
- No. of cylinders: 6
- Bore: 125 mm
- Stroke: 150 mm
- Piston displacement: 11.04 ltr
- Net flywheel horsepower: 142 kW
- Gross horsepower: 153 kW
- Piston displacement: 11.04 ltr
- Stroke: 150 mm

**Torqflow Transmission**

Komatsu’s Torqflow transmission consists of a wet, spring-friction damper, 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. It offers a single-lever control for the 3 speeds and for directional and steering changes. Gearshift lock lever and neutral safety switch prevent machine from accidental starts.

**Final Drive**

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

**Coolant and Lubricant Capacity (Refilling)**

<table>
<thead>
<tr>
<th></th>
<th>D65EX-12</th>
<th>D65EX-12 LT</th>
<th>D65PX-12</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. of shoes (each side)</td>
<td>39</td>
<td>45</td>
<td>45</td>
</tr>
<tr>
<td>Grouser height</td>
<td>65 mm</td>
<td>65 mm</td>
<td>65 mm</td>
</tr>
<tr>
<td>Shoe width (standard)</td>
<td>510 mm</td>
<td>510 mm</td>
<td>915 mm</td>
</tr>
<tr>
<td>Ground contact area</td>
<td>27265 cm²</td>
<td>33505 cm²</td>
<td>59923 cm²</td>
</tr>
<tr>
<td>Ground pressure</td>
<td>0.68 kg/cm²</td>
<td>0.57 kg/cm²</td>
<td>0.33 kg/cm²</td>
</tr>
</tbody>
</table>

**Operating Weight (Approximate)**

Tractor weight:

- D65EX-12: 16670 kg
- D65EX-12 LT: 15530 kg
- D65PX-12: 15340 kg

Operating weight:

- Including dozer, operator, ROPS, steel cab, standard equipment, rated capacity of lubricant, coolant, and full fuel tank:
  - D65EX-12: 18575 kg
  - D65EX-12 LT: 19310 kg
  - D65PX-12: 19615 kg

**Steering**

Single-lever controls for all directional movements. Simply tilt the lever to the left to make a left turn. Tilting the lever forward results in forward motion; pulling toward the operator reverses the machine. Hydrostatic steering system (HSS) of differential planetary gear type. Powered by hydraulic motor, hydraulically actuated, and hand-operated.

Minimum turning radius:
- D65EX-12: 2.3 m
- D65EX-12 LT: 2.3 m
- D65PX-12: 2.7 m

Brakes: Wet, multiple-disc, spring-applied, hydraulically released, foot pedal and safety lever operated.
**DIMENSIONS**

<table>
<thead>
<tr>
<th>A</th>
<th>1495 mm</th>
<th>4’11”</th>
</tr>
</thead>
<tbody>
<tr>
<td>B</td>
<td>1880 mm</td>
<td>6’2”</td>
</tr>
<tr>
<td>C</td>
<td>2050 mm</td>
<td>6’9”</td>
</tr>
<tr>
<td>D</td>
<td>2390 mm</td>
<td>7’10”</td>
</tr>
<tr>
<td>E</td>
<td>2972 mm</td>
<td>9’9”</td>
</tr>
<tr>
<td>F</td>
<td>510 mm</td>
<td>20.1”</td>
</tr>
<tr>
<td>G</td>
<td>915 mm</td>
<td>36.0”</td>
</tr>
<tr>
<td>H</td>
<td>2980 mm</td>
<td>9’9”</td>
</tr>
<tr>
<td>I</td>
<td>3025 mm</td>
<td>9’11”</td>
</tr>
<tr>
<td>J</td>
<td>1270 mm</td>
<td>4’2”</td>
</tr>
<tr>
<td>K</td>
<td>2675 mm</td>
<td>8’9”</td>
</tr>
<tr>
<td>L</td>
<td>3285 mm</td>
<td>10’9”</td>
</tr>
<tr>
<td>M</td>
<td>4365 mm</td>
<td>14’4”</td>
</tr>
<tr>
<td>N</td>
<td>65 mm</td>
<td>2.6”</td>
</tr>
<tr>
<td>O</td>
<td>3195 mm</td>
<td>10’5”</td>
</tr>
</tbody>
</table>

**GROUND CLEARANCE** ........................................... 400 m 1’4”

**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-displacement hydraulic pump with capacity (discharge flow) of 210 ltr/min 55.5 U.S. gal/min at rated engine rpm.

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

**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
- Blade tilt .................................................... Right, hold, and lower
- Ripper lift .................................................. Raise, hold, and lower

Additional control valve required for multi-shank ripper.

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

<table>
<thead>
<tr>
<th>Number of cylinders</th>
<th>Bore</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blade Lift</td>
<td>2 95 mm 3.74”</td>
</tr>
<tr>
<td>Blade Tilt</td>
<td>1 140 mm 5.51”</td>
</tr>
<tr>
<td>Ripper Lift</td>
<td>1 140 mm 5.51”</td>
</tr>
</tbody>
</table>

**BLADE**

Use of high-tensile-strength steel in moldboard and box construction of the back plate for extended service. Blade tilt hose piping is mounted inside the dozer push arm to protect from damage.

<table>
<thead>
<tr>
<th>Blades</th>
<th>Overall length with dozer</th>
<th>*Blade capacity</th>
<th>Blade length x height</th>
<th>Maximum lift above ground</th>
<th>Maximum drop below ground</th>
<th>Maximum tilt adjustment</th>
<th>Additional weight</th>
<th>Additional weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Semi-U tilt dozer</td>
<td>5390 mm 17’8”</td>
<td>5.61 m³</td>
<td>7.34 yd³</td>
<td>3460 mm x 1425 mm 11’4” x 4’8”</td>
<td>1095 mm 3’7”</td>
<td>450 mm 1’6”</td>
<td>880 mm 2’11”</td>
<td>2310 kg 5,090 lb</td>
</tr>
<tr>
<td>Straight tilt dozer</td>
<td>5260 mm 17’3”</td>
<td>3.89 m³</td>
<td>5.09 yd³</td>
<td>3415 mm x 1225 mm 11’2” x 4’1”</td>
<td>1100 mm 3’7”</td>
<td>450 mm 1’6”</td>
<td>870 mm 2’10”</td>
<td>2000 kg 4,410 lb</td>
</tr>
<tr>
<td>Angle dozer</td>
<td>5470 mm 17’11”</td>
<td>3.56 m³</td>
<td>4.84 yd³</td>
<td>3970 mm x 1100 mm 13’0” x 3’7”</td>
<td>1180 mm 3’10”</td>
<td>460 mm 1’4”</td>
<td>400 mm 1’4”</td>
<td>2200 kg 4,930 lb</td>
</tr>
<tr>
<td>Straight tilt dozer</td>
<td>5550 mm 18’3”</td>
<td>3.69 m³</td>
<td>4.83 yd³</td>
<td>3970 mm x 1100 mm 13’0” x 3’7”</td>
<td>1200 mm 3’11”</td>
<td>445 mm 1’6”</td>
<td>890 mm 2’11”</td>
<td>2030 kg 4,480 lb</td>
</tr>
<tr>
<td>Power tilt pitch</td>
<td>5550 mm 18’3”</td>
<td>3.69 m³</td>
<td>4.83 yd³</td>
<td>3970 mm x 1100 mm 13’0” x 3’7”</td>
<td>1200 mm 3’11”</td>
<td>445 mm 1’6”</td>
<td>890 mm 2’11”</td>
<td>2040 kg 4,500 lb</td>
</tr>
<tr>
<td>Angle dozer</td>
<td>5766 mm 18’11”</td>
<td>3.30 m³</td>
<td>4.32 yd³</td>
<td>4475 mm x 960 mm 14’8” x 3’2”</td>
<td>1230 mm 4’</td>
<td>490 mm 1’7”</td>
<td>440 mm 1’5”</td>
<td>1995 kg 4,390 lb</td>
</tr>
</tbody>
</table>

*Blade capacities are based on SAE recommendation practice J1265.
STANDARD EQUIPMENT FOR BASE MACHINE

- Air cleaner, double element with pre-cleaner
- Alternator, 35 ampere
- Automatic fuel de-aeration
- Back-up alarm
- Batteries 140 Ah/2 x 12V
- Blower cooling fan
- Decelerator
- Electronic instrument monitor panel
- Engine hood and side covers
- Fenders
- HSS hydrostatic steering system
- Hydraulics for till dozer
- Lighting system (includes 2 front, 1 rear)
- Locks, filler caps, and covers
- Mono-lever steering with PPC
- Muffler with curved exhaust pipe
- Radiator guard door, hinged
- Radiator reserve tank
- Rear cover, strengthened
- ROPS mounting brackets
- Single grouser shoes with sealed and lubricated link assembly
- Strengthened under guards, crankcase, and transmission
- Suspension seat with seat belt
- Track roller guards, center section D65PX-12
- Track roller guards, end sections
- Track shoe assembly, 510 mm 20.1” D65EX-12 915 mm 36.0” D65PX-12

OPTIONAL EQUIPMENT

- AR track assembly (abrasion resistant links and bushings)
- Air conditioner with heater, defroster, pressurizer
- Cooling fan, reversible
- Counterweight, additional 650 kg 1,430 lb
- Drawbar, rigid (not for use with counterweight)
- Front pull hook
- Heat resistant fuel hoses
- Heater and defroster

- Intake pipe with pre-cleaner
- Hydraulics for ripper (EX)
- Hitch
- Long track arrangement (for use with Semi-U blade only)
- Light working, rear additional
- Lunch box holder
- Mirror
- Power tilt and pitch (PX)
- Side screens
- Sweeps and rear screen
- Segmented, full length track roller guards
- Radiator core protective grid
- Radiator guard door, flat, strengthened, hinged
- Sun visor
- Suspension seat, reclining with fabric material (cab only)
- Tank guard group
- Underguards, hinged
- Vandalism protection cover for instrument panel (for ROPS canopy)
- Water separator
- Track roller guards, end sections, and center guiding guards (D65EX-12, D65EX-12 LT)

ROPS

ROPS Canopy for Steel Cab*

Meets ISO 3471, SAE J1040 APR88, and SAE J395a ROPS standards, as well as ISO 3499 FOPS standards.

Additional weight ........................................ 340 kg 750 lb
Roof dimensions ...........................................
  - Length ........................................ 1270 mm 4’2”
  - Width ........................................ 1490 mm 4’11”
  - Height from compartment floor .............. 1700 mm 5’7”
Additional ground pressure:
  - D65EX .................................. 0.01 kg/cm² 0.14 psi
  - D65PX .................................. 0.005 kg/cm² 0.07 psi

Steel Cab

All-weather, enclosed pressurized cab, includes oil damper suspension, left and right front and rear wipers, ashtray, cigarette lighter, floor mat, hot/cold box.

Additional weight ........................................ 285 kg 630 lb
Roof dimensions:
  - Length ........................................ 1765 mm 5’9”
  - Width ........................................ 1720 mm 5’8”
  - Height from floor to ceiling ................. 1515 mm 5’2”
Additional ground pressure:
  - D65EX .................................. 0.01 kg/cm² 0.14 psi
  - D65PX .................................. 0.005 kg/cm² 0.07 psi

*ROPS canopy must be ordered by all machines.

RIPPER

Multi-shank Ripper for D65EX

Hydraulically controlled parallelogram ripper with three shanks.

Additional weight (including hydraulic control unit) .............. 1680 kg 3,700 lb
Beam length ............................................ 2170 mm 7’1”
Maximum lift above ground .................. 640 mm 2’1”
Maximum digging depth ....................... 595 mm 1’11”

Additional ground pressure:
  - D65EX .................................. 0.06 kg/cm² 0.85 psi
  - D65PX .................................. 0.07 kg/cm² 1.06 psi

SHOES

<table>
<thead>
<tr>
<th>Models</th>
<th>Shoes</th>
<th>Additional weight</th>
<th>Ground contact area</th>
<th>Additional ground pressure to tractor</th>
</tr>
</thead>
<tbody>
<tr>
<td>D65EX</td>
<td>560 mm 22.0” single-grouser</td>
<td>+120 kg +260 lb</td>
<td>29660 cm² 4,644 in²</td>
<td>-0.04 kg/cm² -0.57 psi</td>
</tr>
<tr>
<td>D65EX-12</td>
<td>610 mm 24.0” single-grouser</td>
<td>+230 kg +510 lb</td>
<td>32635 cm² 5,085 in²</td>
<td>-0.08 kg/cm² -1.14 psi</td>
</tr>
<tr>
<td>D65EX</td>
<td>510 mm 20.1” single-grouser</td>
<td>+45 kg +100 lb</td>
<td>33506 cm² 5,193 in²</td>
<td>—</td>
</tr>
<tr>
<td>D65EX</td>
<td>660 mm 26.0” single-grouser</td>
<td>+350 kg +770 lb</td>
<td>39310 cm² 6,473 in²</td>
<td>-0.11 kg/cm² -1.56 psi</td>
</tr>
<tr>
<td>D65EX</td>
<td>990 mm 37.4” circular arc</td>
<td>+50 kg +110 lb</td>
<td>62420 cm² 9,675 in²</td>
<td>-0.01 kg/cm² -0.14 psi</td>
</tr>
<tr>
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<td>-0.01 kg/cm² -0.14 psi</td>
</tr>
</tbody>
</table>
Support

Count on Komatsu and your local distributor for the support you deserve. Our success depends on satisfying your need for productive equipment and supporting that equipment. That’s why we have one of the largest and strongest heavy-equipment distributor organizations in North America. Their personnel are not only trained to help you select the equipment that is best-matched for your business but to support that equipment.

Finance Through its finance company, Komatsu can offer you a wide variety of financing alternatives designed to meet your needs. Programs include municipal leases for governmental agencies, conditional sales contracts, and leases with $1 purchase options for customers interested in owning their equipment. Ask your distributor about Komatsu leasing. We offer finance and operating leases and the unique Advantage Lease which offers you predetermined purchase, return, and renewal options.

Remanufactured parts Save money and still have the same warranty as new parts at a fraction of the cost with like-new remanufactured parts.

Parts Three computer-linked parts distribution centers provide fast access to anywhere in the U.S. and Canada. Most parts are available overnight. Plus, Komatsu distributors keep a large assortment of commonly used parts in stock for immediate access.

Maintenance Take advantage of the experience we have gained and ask your distributor about our factory-supported programs including: regular scheduled maintenance, oil and wear analysis, diagnostic inspections, undercarriage inspections, training, special service tools, parts programs, and even a special software program to help your distributor keep track of and manage service-related data.