

**KOMATSU**  
THE QUALITY IS STANDARD

# D37E-2

**CRAWLER DOZER**



Model shown may include optional equipment.

## **KOMATSU: The Quality is Standard.**

**FLYWHEEL HORSEPOWER: 75 HP (56 kW) @ 2350 RPM.**  
**OPERATING WT: 6710 kg (14,780 lb)**

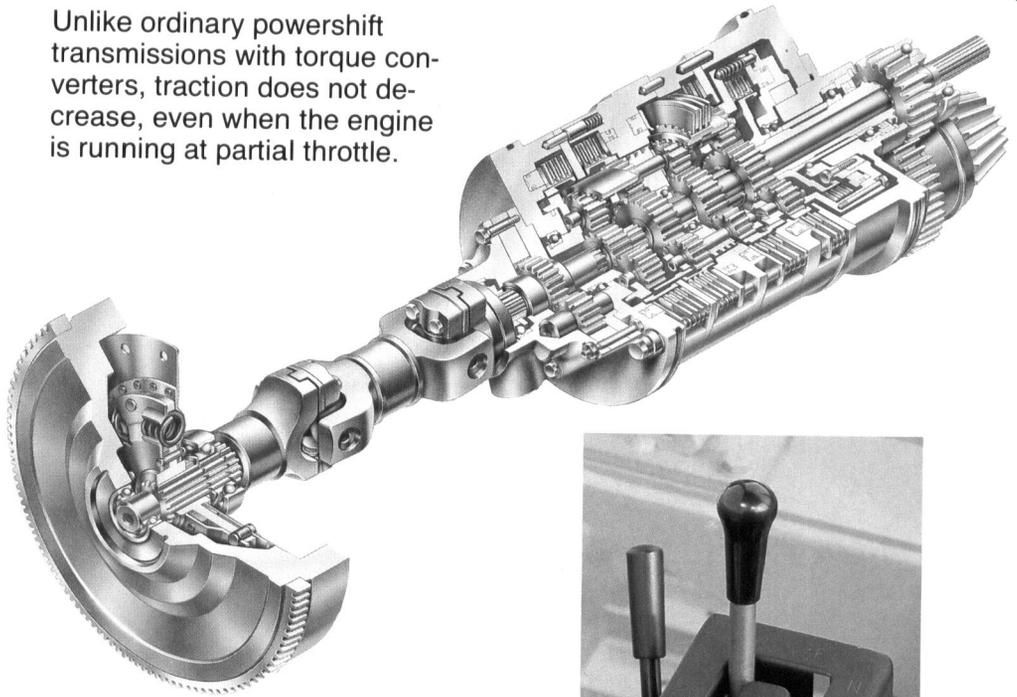
- Long tracks provide these valuable extras: flotation, traction, stability and efficient grading.
- Komatsu-built power train maximizes production while assuring excellent fuel economy.
- Designed for maximum durability, reliability and maintainability.
- Wet-type steering and brakes extends durability, increases operator control.
- HYDROSHIFT transmission provides efficiency of direct drive and convenience of powershift.

## The Komatsu-built power train maximizes production while assuring excellent fuel economy.

### Efficient HYDROSHIFT transmission

The D37E is equipped with Komatsu's unique HYDROSHIFT transmission, assuring smooth gear shifts, powerful traction and low fuel consumption. It consists of a damper and planetary gear packs. The HYDROSHIFT transmission makes two previously incompatible factors compatible: It efficiently converts engine power to traction with minimal power loss as obtained with a direct-drive transmission and it offers smooth, easy shifting as obtained with the powershift transmission equipped with a torque converter.

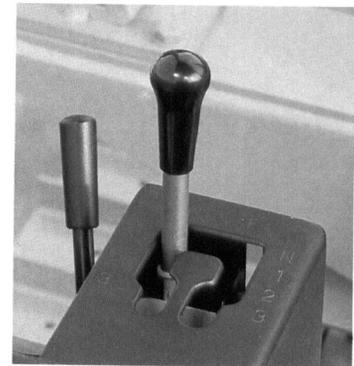
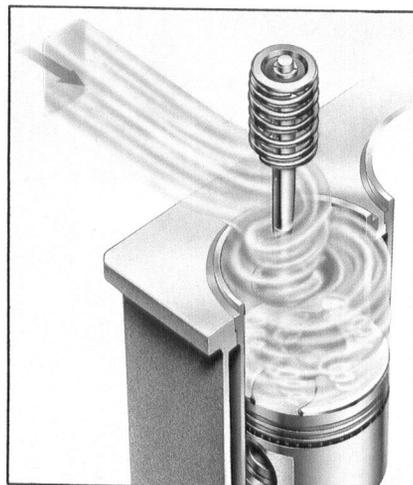
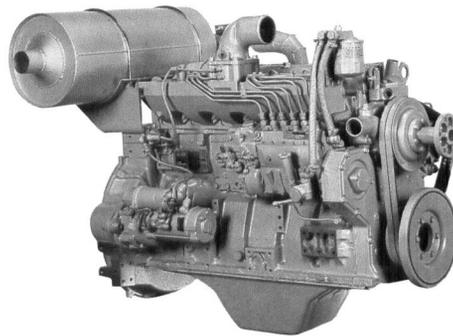
Unlike ordinary powershift transmissions with torque converters, traction does not decrease, even when the engine is running at partial throttle.



### Fuel-efficient 6D95L engine

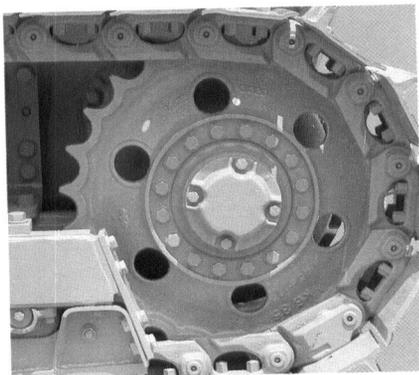
The Komatsu 6D95L-1 features a direct-injection, Microturbulence Combustion Chamber (MTCC) fuel system. Intake air is swirled into the combustion chamber where it is mixed with injected, atomized fuel, providing optimum combustion. This MTCC fuel system not only contributes to greater power and fuel savings, but also insures reduced noise and cleaner exhaust. A cushion mounted engine reduces noise and vibration.

An electrical heater located in the intake-air manifold warms fresh air to assure quick, smooth engine starts even in cold weather.

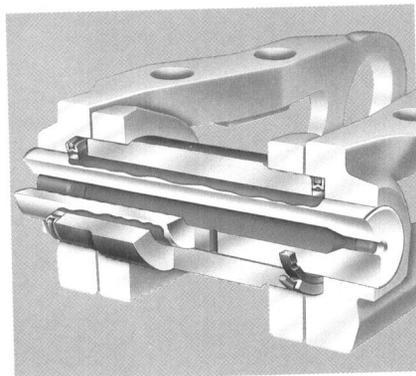


## Designed for maximum durability, reliability and maintainability.

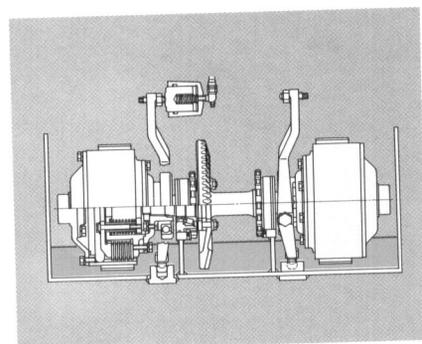
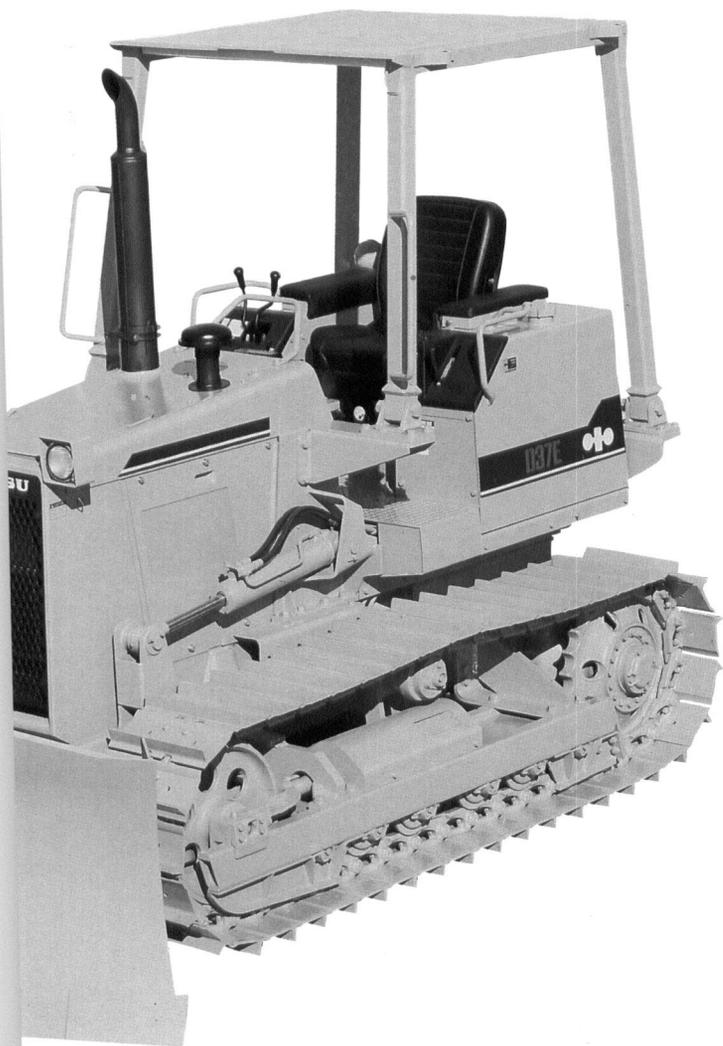
Every Komatsu crawler is exclusively manufactured with Komatsu components. Since each component is produced under the world's strictest quality control, reliability and durability are assured. Maintainability is also a factor contributing to machine efficiency and economy, and the D37E offers more.



**Bolt-on type sprocket:** Can be easily replaced on the job-site when worn, for reduced downtime.



**Lubricated track links (optional):** Since the clearance between the link pin and bushing is lubricated, wear and pitch elongation are minimized for extended service life. With lubricated track, power loss due to friction of pin and bushing are reduced, increasing operating comfort and performance. Split master links are also provided to facilitate track assembly and disassembly.

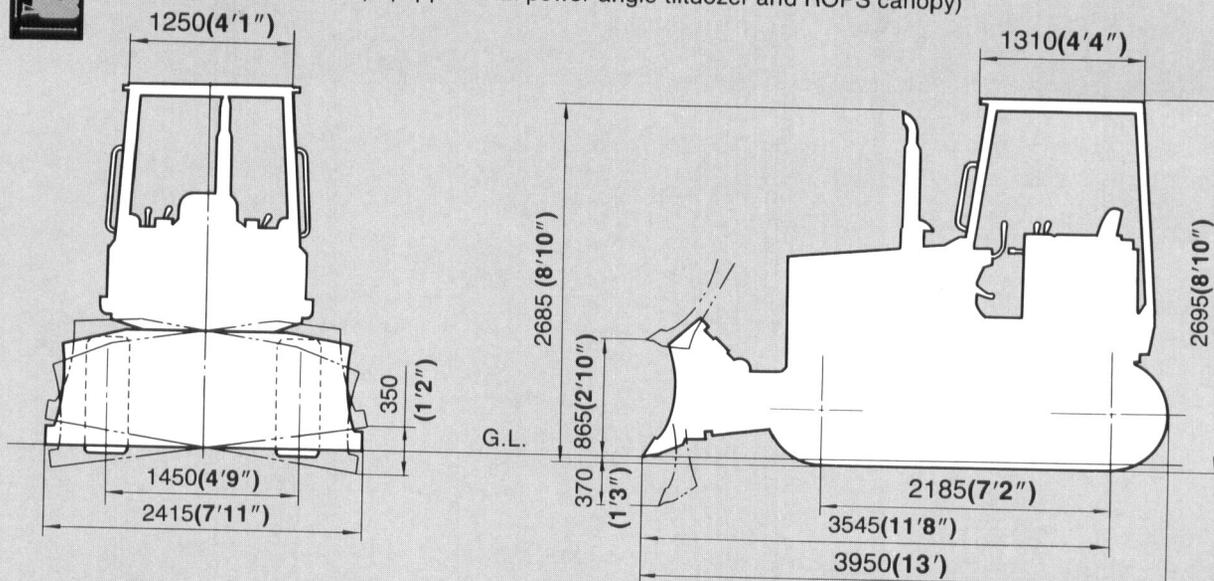


**Wet type steering clutches and brakes:** The D37E has interconnected, lever-operated, wet steering clutches and brakes for long service life and reliability. The self-adjusting steering clutches are multiple-disc type with a hydraulic booster, insuring light-touch lever movements, while the brakes are the contracting-band type that facilitate minimal lining replacements.



## DIMENSIONS

(Equipped with power angle-tilt dozer and ROPS canopy)

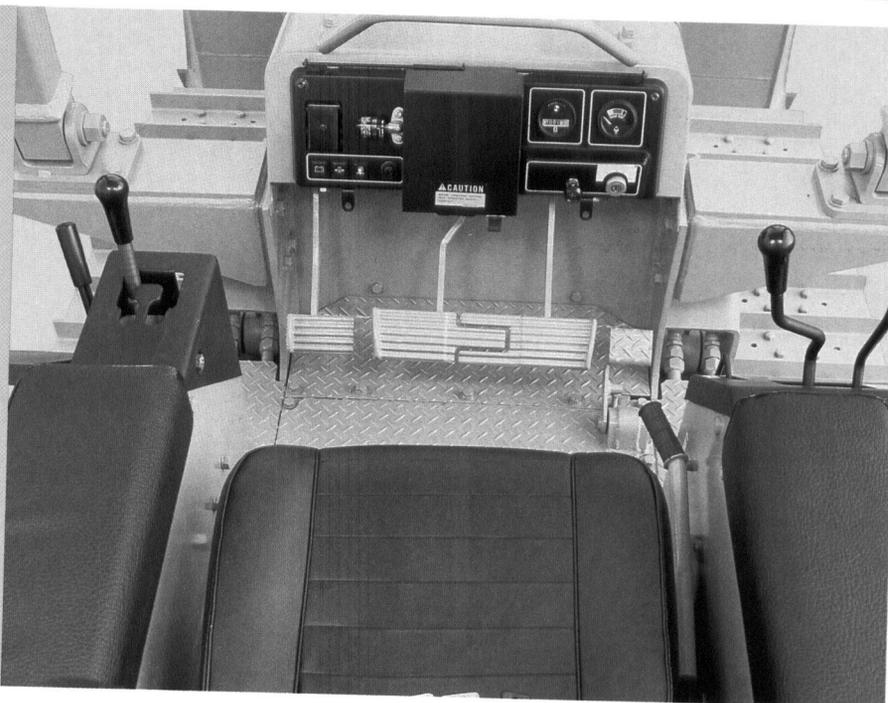


Unit: mm (ft.in)



## CONTROLS

- Operator-oriented arrangement of control levers, pedals, instruments and operator's seat.
- Single shift lever.
- Hydraulically boosted steering levers.
- Walk-through operator's compartment.
- Suspended type pedals eliminate gaps in the floor, reducing noise.
- Color-coded meters and gauges with universal symbols.
- Dust indicator installed on the instrument panel.
- Padded, fore/aft adjustable operator's seat.
- Oil-suspension seat is optionally available.



## STANDARD EQUIPMENT

• HYDROSHIFT transmission • 330 mm (13.0") single-grouser shoes • Hydraulic track adjusters • 24 V, 25 A alternator • 24 V, 5.5 kW electric starting motor • Track roller guards • Inching pedal • Wet-type, interconnected steering clutches and brakes • In-line radiator cores • Dry-type air cleaner with automatic dust evacuator and dust indicator • 24 V (12 V × 2),

150 Ah batteries • 6-roller track frames • Lighting system (including 2 front and 1 rear light) • Blower fan • Muffler • Adjustable operator's seat • Seat belt • ROPS brackets • Backup alarm • Console type lever steering • Decelerator pedal • Radiator guard • Engine hood • Engine side covers, solid • PTO gear box



## DOZER EQUIPMENT

Use of high-tensile-strength steel in moldboard extends service. Hydraulic hoses for blade angling and tilting are covered with steel plates and protected from damage.

	Overall length with dozer	*Blade capacity	Blade length × height	Max. lift above ground	Max. drop below ground	Max. tilt adjustment	Blade angle	Additional weight		Additional ground pressure
								Blade	Hydraulic control unit	
Power-angle-tilt dozer	3950 mm (13')	1.49 m <sup>3</sup> (1.95 yd <sup>3</sup> )	2415 mm × 940 mm (7'11" × 3'1")	865 mm (2'10")	370 mm (1'3")	350 mm (1'2")	25°	860 kg (1,900 lb)	180 kg (400 lb)	—

\*Blade capacity is based on the SAE recommendation practice J1265.

# SPECIFICATIONS



## ENGINE

Komatsu 6D95L-1, 4-cycle, water-cooled diesel engine with 6 cylinders of 95 mm (3.74") bore × 115 mm (4.53") stroke and 4.89 ltr. (298 in<sup>3</sup>) piston displacement.  
Flywheel horsepower:

**75 HP (56 kW) at 2350 RPM (SAE J1349)**

Maximum torque . . . . . 27.2 kg-m (197 ft-lb) at 1400 RPM  
Direct-injection Microturbulence Combustion Chamber system for fuel economy. Mechanical all-speed governor. Trochoid-pump-driven force-lubrication with full-flow filter. Dry-type air cleaner with automatic dust evacuator for longer element service and dust indicator for simplified maintenance. All the filters are spin-on type for easy element replacement. Electrical 24-volt starting system.



## DAMPER

Wet-type damper, with built-in torsion and friction springs, absorbs engine torque vibrations as well as stress from external impacts.



## HYDROSHIFT TRANSMISSION

The unique Komatsu HYDROSHIFT transmission with planetary gears is hydraulically-controlled and force-lubricated. Efficient power flow and simplified direction and speed changes (3 forward and 3 reverse) are achieved with one lever.

Travel speeds	Forward	Rated drawbar pull	Reverse
1st	2.2 km/h (1.4 MPH)	7870 kg (17,350 lb)	2.5 km/h (1.5 MPH)
2nd	3.9 km/h (2.4 MPH)	4250 kg (9,370 lb)	4.3 km/h (2.7 MPH)
3rd	6.5 km/h (4.0 MPH)	2340 kg (5,160 lb)	7.1 km/h (4.4 MPH)

Maximum drawbar pull . . . . . 9250 kg (20,390 lb)



## STEERING

Wet, multiple-disc, hand-operated steering clutches are hydraulically boosted and interconnected with wet, contracting-band, steering brakes to allow easy, light-touch steering/braking actions. A modulating valve built into the steering circuit facilitates smooth, shockless steering control. Inching pedal assures smooth, easy starting and stopping, precise inching approaches to obstacles and impact digging.



## FINAL DRIVE

Spur gear, single-reduction final drives. Bolt-on type sprockets for easy replacement.



## UNDERCARRIAGE

**Suspension** . . . . . Rigid type  
**Track roller frame** . . . . . Box-section, high-tensile-strength steel construction.

**Rollers and idlers** . . . . . Lubricated idlers, track and carrier rollers are sealed with floating seals.

**Number of track rollers** . . . . . 6 each

**Number of carrier rollers** . . . . . 1 each

**Track shoes** . . . . . Assembled single-grouser shoes.

Unique dust seals prevent entry of dust into pin-to-bushing clearances for extended service. Track tension is easily adjusted with a grease gun.

**Number of shoes** . . . . . 41 each side

**Grouser height** . . . . . 47 mm (1.9")

**Ground clearance** . . . . . 315 mm (12.4")

**Shoe width (standard)** . . . . . 330 mm (13.0")

**Ground contact area** . . . . . 14420 cm<sup>2</sup> (2,235 in<sup>2</sup>)

**Ground pressure (less blade)** . . . . . 0.39 kg/cm<sup>2</sup> (5.59 PSI)



## COOLANT & LUBRICANT CAPACITY (refilling)

Coolant . . . . .	22	ltr. ( 5.8 U.S. gal)
Fuel tank . . . . .	115	ltr. (30.4 U.S. gal)
Engine . . . . .	9	ltr. ( 2.4 U.S. gal)
Damper case . . . . .	0.7	ltr. ( 0.2 U.S. gal)
Transmission . . . . .	13	ltr. ( 3.4 U.S. gal)
Bevel gear case . . . . .	17	ltr. ( 4.5 U.S. gal)
Steering clutch . . . . .	30	ltr. ( 7.9 U.S. gal)
Final drive (each side) . . . . .	9.5	ltr. ( 2.5 U.S. gal)
Hydraulic tank . . . . .	33	ltr. ( 8.7 U.S. gal)



## OPERATING WEIGHT (approximate)

Operating weight, including power-angle-tilt dozer, ROPS, operator, standard equipment, rated capacity of lubricant, coolant and full fuel tank . . . . . 6710 kg (14,780 lb)  
Ground pressure . . . . . 0.47 kg/cm<sup>2</sup> (6.61 PSI)



## HYDRAULIC SYSTEM

**Hydraulic control unit:** Gear-type hydraulic pump mounted on rear of engine with capacity (discharge flow) of 87 ltr. (23.0 U.S. gal)/min. at rated engine RPM.

Relief valve setting . . . . . 175 kg/cm<sup>2</sup> (2,490 PSI)

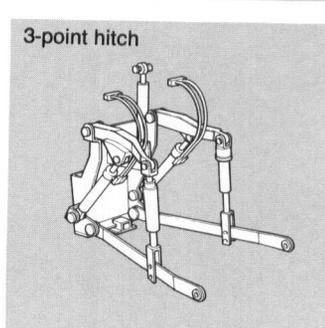
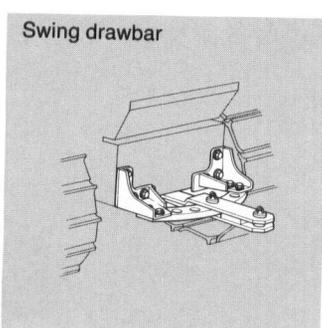
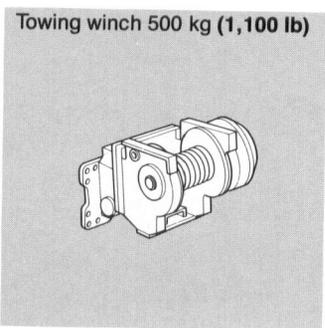
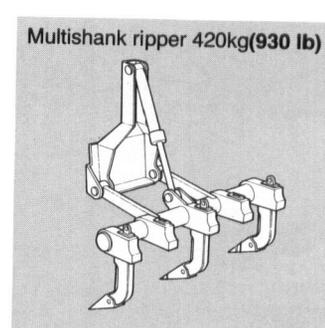
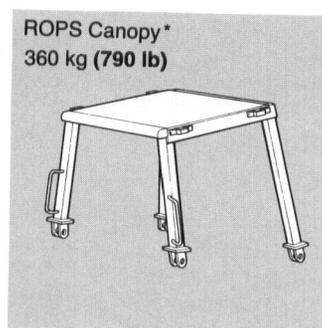
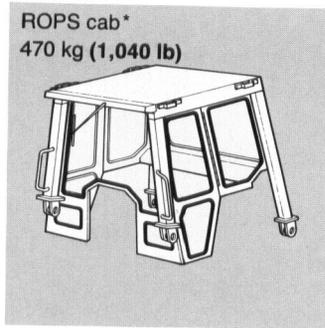
### Control valves

- One control valve for angledozer  
Positions: Blade lift . . . . . Raise, hold, lower and float
- Three control valves for power-angle-tilt dozer  
Positions: Blade lift . . . . . Raise, hold, lower and float  
Blade angle . . . . . Left, hold and right  
Blade tilt . . . . . Left, hold and right
- Additional control valve required for ripper  
Positions: Ripper lift . . . . . Raise, hold, lower and float

**Hydraulic cylinders:** Double-acting, piston type

Cylinder	Number of cylinders	Bore
Blade lift	2	90 mm (3.54")
Blade tilt	1	90 mm (3.54")
Blade angling	2	90 mm (3.54")

## A Wide Range of Attachments and Optional Equipment



\*ROPS cab and ROPS canopy meet ISO 3471, SAE J1040a and SAE J395a ROPS standards.

### Other attachments and optional equipment

- Reversible fan
- Final drive case wear guards
- Track-roller guards, center
- Engine side covers, perforated
- Front pull hook
- Hitch
- Tool kit
- Pedal steering
- Vandalism protection kit
- Radiator core protective grid
- Heater & defroster
- Oil-suspension seat
- Fairlead for winch
- Logging arm for winch
- Valve and lever for ripper control
- Front and rear underguards
- Sealed and lubricated track
- Front sweeps
- Rear screen
- Side screen
- Hinged radiator guard

### Optional shoes

	Additional weight kg (lb)	Ground contact area cm <sup>2</sup> (in <sup>2</sup> )	Additional ground pressure (tractor) kg/cm <sup>2</sup> (PSI)
400 mm (15.8") single-grouser shoe	+ 90 (+ 198)	17480 (2,709)	- 0.06 (-0.85)
400 mm (15.8") triple grouser shoe	+ 100 (+ 221)	17480 (2,709)	- 0.04 (-0.66)

This specification sheet may contain attachments and optional equipment that are not available in your area. Please consult your local Komatsu distributor for those items you may require. Materials and specifications are subject to change without notice.

**KOMATSU**

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