



BULLDOZER

D63E-1

FLYWHEEL HORSEPOWER: 104 kW (140 HP)/1900RPM
OPERATING WEIGHT (TRACTOR): 12 090 kg (26,654 lb)
OPERATING WEIGHT (STRAIGHT-TILTDOZER): 14 810 kg (32,650 lb)



The machine shown may vary
according to standard territory specifications

- Long tracks give extra-high flotation, extra-high stability, extra powerful traction and extra-efficient grading performance.
- Light-tough control systems increase operating comfort and productivity.
- Komatsu-built power train maximises production while ensuring excellent fuel economy.
- Designed for long life, maximum reliability and easy maintenance.

D63E-1 SPECIFICATIONS



ENGINE

Komatsu 6D125-1, 4-stroke, water-cooled overhead valve, direct injection diesel engine. 6 cylinders, bore 125 mm (4.92") x stroke 150 mm (5.91"), piston displacement 11.04 l (674 cu. in)

Flywheel horsepower:

104.5 kW (140 HP) at 1900 RPM (SAE J1349)

104.5 kW (142 PS) at 1900 RPM (DIN 6270 B)

Direct injection fuel system with mechanical all-speed governor. Gear 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.

Corrosion resistor prevents the formation of dust and scale in the cooling system.

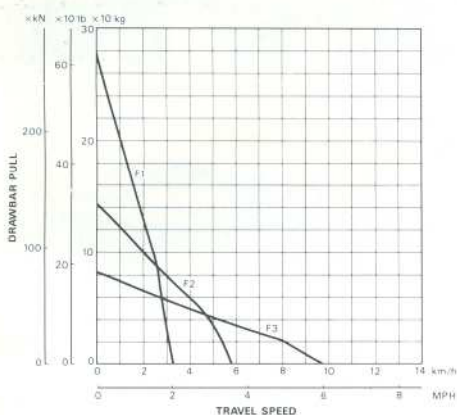
24-volt starting system, with electric heating of the air intake to facilitate starting at low temperatures.



TORQFLOW TRANSMISSION

Komatsu's unique TORQFLOW transmission consists of a water-cooled, 3-element, single-stage, single-phase torque converter and a planetary-gear, multiple-disc clutch transmission, both of which are hydraulically controlled and force-lubricated for maximum heat dissipation. Control of all speeds (3 forward, 3 reverse) and direction changes are carried out with one lever. Gearshift lock and neutral safety switch prevent accidental starts.

Travel speeds km/h (MPH)	Forward	Reverse
1st	0 - 3.2 (2.0)	0 - 3.8 (2.4)
2nd	0 - 5.8 (3.6)	0 - 6.9 (4.3)
3rd	0 - 9.4 (5.8)	0 - 11.2 (7.0)



Usable pull will depend upon traction and weight of equipped tractor.



STEERING

Wet multiple-disc hand-operated steering clutches are hydraulically assisted, and interconnected with wet contracting-band foot-controlled brakes so as to ensure light and easy steering and braking.



FINAL DRIVE

Spur gear, double-reduction final drives. Segmented sprockets are installed on the hub with bolts, to allow for simple replacement in the field.



UNDERCARRIAGE

Suspension Oscillation type equaliser bar

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 2 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 39 each

Grouser height 48 mm (1.9")

Shoe width (standard) 510 mm (1'8")

Ground contact area (tractor) 24 740 cm² (3,835 sq.in)

..... 29 590 cm² (4,586 sq. in)*

Ground pressure (tractor) 48.1 kPa (0.49 kg/cm²/6.97 PSI)

..... 41.2 kPa (0.42 kg/cm²/5.97 PSI)*

* with optional 610 mm (2') shoe



COOLANT & LUBRICANT CAPACITY (refilling)

Coolant	52 l
Fuel tank	250 l
Engine	26 l
Damper case	1.3 l
Torque converter, transmission	34 l
Bevel gear case, steering case	58 l
Final drive (each side)	19 l
Hydraulic tank	65 l



OPERATING WEIGHT (approximate)

Operating weight, including straight-tiltdozer, ROPS cab, operator, standard equipment, rated capacity of lubricant, coolant and full fuel tank 14 810 kg (32,650 lb)



HYDRAULIC SYSTEM

Hydraulic control unit: Gear-type hydraulic pump with capacity (discharge flow) of 181 l/min at rated engine RPM.

Relief valve setting 15.2 MPa (155 kg/cm²/2 204 PSI)

Control valves

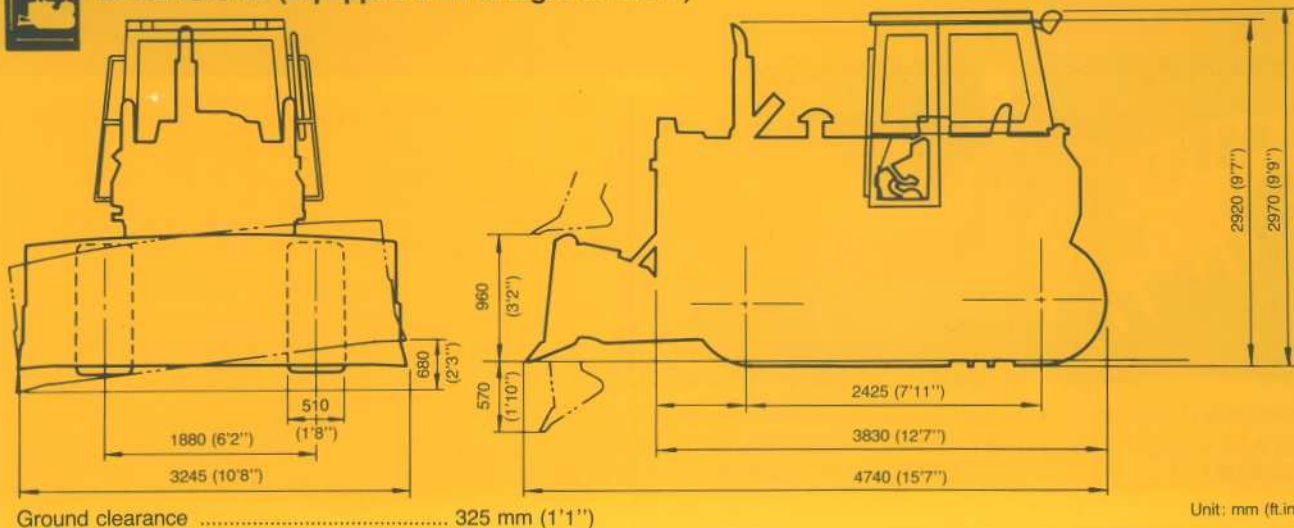
- One control valve for angledozer and straightdozer.
Positions: Blade lift Raise, hold, lower and float
- Two control valves for straight-tiltdozer and mechanical angle-power-tiltdozer.
Positions: Blade lift Raise, hold, lower and float
Blade tilt Left, hold and right
- Additional control required for 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	160 mm (6.30")
Ripper lift	1	160 mm (6.30")



DIMENSIONS (Equipped with straight-tiltdozer)



CONTROLS

- Control levers, pedals, instruments and operator's seat all arranged for operator convenience
- Single shift lever
- Hydraulically assisted steering levers
- Walk-through operator's compartment
- Suspended pedals eliminate gap to floor, reducing noise leakage
- Colour-coded meters and gauges with universal symbols
- Dust indicator installed on instrument panel
- Oil-suspension seat

(Photo shown may include optional equipment)



STANDARD EQUIPMENT

- TORQFLOW transmission
- 510 mm (1'8") single-grouser shoes
- Hydraulic track adjusters
- 24 V, 13 A alternator
- 7.5 kW (24 V) starter motor
- Wet-type steering clutches and brakes
- In-line radiator
- Dry-type air cleaner with automatic dust evacuator and dust indicator
- 24 V (12 V x 2), 150 Ah batteries
- 6-roller track frames
- Lighting system (including 2 front and 1 rear light)
- Segmented sprockets
- Lower guards
- Oil-suspension seat
- Decelerator pedal
- ROPS brackets



DOZER EQUIPMENT

Use of high tensile strength steel in moldboard for strengthened blade construction. Hydraulic piping for blade tilting is housed inside the dozer frame and protected from damage.

	Overall length with dozer	*Blade capacity	Blade length x height	Max. lift above ground	Max. drop below ground	Max. tilt adjustment	Additional weight		Additional ground pressure
							Blade	Hydraulic control unit	
Angledozer	4 855 mm (15'11")	2.42 m³ (3.17 cu.yd)	3 745 mm x 926 mm (12'3" x 3')	930 mm (3'1")	590 mm (1'11")	400 mm (1'4")	1 700 kg (3,748 lb)	360 kg (794 lb)	7.8 kPa (0.08 kg/cm²/1.14 PSI)
Mechanical-angle-power-tiltdozer	4 855 mm (15'11")	2.42 m³ (3.17 cu.yd)	3 745 mm x 926 mm (12'3" x 3')	930 mm (3'1")	590 mm (1'11")	300 mm (1'18")	1 700 kg (3,748 lb)	410 kg (904 lb)	7.8 kPa (0.08 kg/cm²/1.14 PSI)
Straightdozer	4 740 mm (15'7")	3.1 m³ (4.05 cu.yd)	3 245 mm x 1 130 mm (10'8" x 3'8")	960 mm (3'2")	670 mm (1'10")	680 mm (2'3")	1 630 kg (3,594 lb)	360 kg (794 lb)	7.8 kPa (0.08 kg/cm²/1.14 PSI)
Straight tiltdozer	4 740 mm (15'7")	3.1 m³ (4.05 cu.yd)	3 245 mm x 1 130 mm (10'8" x 3'8")	960 mm (3'2")	570 mm (1'10")	680 mm (2'3")	1 690 kg (3,726 lb)	370 kg (816 lb)	7.8 kPa (0.08 kg/cm²/1.14 PSI)

* Blade capacities are based on the SAE recommendation practice J1265

Wide Range of Attachments and Optional Equipment

ANGLE-RAKEDOZER



MULTISHANK RIPPER



Other attachments and optional equipment

- ROPS cab *
- ROPS canopy *
- Front sweeps
- Rear screen
- Side screens
- Front brush legs
- Tank guard extensions
- Three-point hitch
- Drawbar (rigid type)
- Track roller guards
- Front pull hook
- Hitch
- Engine side covers
- Final drive case wear guard
- Reversible fan
- Vandalism protection locks
- Reverse alarm
- Tool kit

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

OPTIONAL SHOES:

	Additional weight kg (lb)	Ground contact area cm ² (sq. in)	Additional ground pressure (tractor) kPa (kg/cm ² /PSI)
560 mm (1'8") single-grouser shoe	+ 104 (229)	27 160 (4,210)	- 3.9 (0.04/0.67)
610 mm (2') single-grouser shoe	+ 230 (507)	29 590 (4,586)	- 6.8 (0.07/1.0)

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 previous notice.

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