



DOZER SHOVEL

D41S-3

FLYWHEEL HORSEPOWER: 90 HP (67 kW)/2350 RPM
OPERATING WEIGHT: 11040 kg (24,340 lb)
BUCKET CAPACITY: 1.2 m³ (1.6 cu.yd)



- **Power-efficient HYDROSHIFT transmission:** Komatsu's unique HYDROSHIFT transmission consists of a damper and a planetary-gear type, hydraulically-actuated transmission. This HYDROSHIFT transmission assures not only efficient power transmitting ability for reduced fuel costs but also single-lever control of travel speed and F/R directional changes for easy operation.
- **Faster loading cycle:** A single lever allows full control of all bucket movements and positions for shorter cycle time. A kickout device automatically stops bucket at the desired height. An automatic positioner sets the bucket at an optimum digging angle for easy loading.
- **Powerful, economical engine:** Komatsu-built 6D105 engine delivers an ample 90 HP (67 kW) power. Due to its large torque rise of 44% more sustained power is attained—even during low engine revolutions. Direct-injection system with Microturbulence Combustion Chamber (MTCC) saves fuel and distributes clean exhaust. Fuel adjustments are unnecessary for altitudes up to 2300 m (7,550 ft).
- **Simple controls:** Komatsu's exclusive joint-pedal brakes

enable single-foot control of steering/braking actions. Inching pedal is interconnected with steering brakes, enabling the precise approach to other vehicles and objects. By using the inching pedal, machine speed are decelerated without reducing engine revolutions, for uninterrupted bucket movements and smooth job completion.

- **Tough, stable undercarriage:** One-class larger track components, double-reduction final drive, floating seals, etc. extend undercarriage durability. Long length of track on ground, low gravity, and equalizer bar minimize machine pitching and rolling for stable, precise operations.
- **Minimal maintenance:** Komatsu dust seals protect pin-to-bushing clearances from abrasive dirt for long track life. Floating seals in track and carrier rollers, front idlers and final drives limit maintenance to a simple overhaul for extended undercarriage use. Daily check points are centrally located for quick and easy checks.
- **Low-noise operation:** Rubber-pad mounting for engine and hood, double walls between engine room and instrument panel all help to reduce noise.

 **KOMATSU LTD.**

D41S SPECIFICATIONS



ENGINE

Komatsu 6D105-1, 4-cycle, water-cooled diesel engine with 6 cylinders of 105 mm (4.13") bore x 125 mm (4.92") stroke and 6.49 ltr (396 cu.in) piston displacement.

Flywheel horsepower 90 HP (67 kW) at 2350 RPM
Max. torque 40 kg-m (289 lb-ft/392 N-m) at 1500 RPM
Performance of standard engine equipped with fan, air cleaner, alternator, water pump, lubricating oil pump, muffler and fuel pump under SAE standard ambient temperature (29.4°C, 85°F) and barometric conditions (745 mm Hg, 29.38" Hg).

Direct-injection system of Microturbulence Combustion Chamber (MTCC) design saves fuel and cleans exhaust gas. Engine is rubber-pad mounted on the main frame, reducing vibration and stress. Mechanical all-speed governor. Trochoid-pump-driven forced lubrication with full-flow filters. Dry-type air cleaner with automatic dust evacuator (with dust indicator) for simple maintenance. Electrical 24-volt starting system.



DAMPER

Wet, spring friction type damper comfortably absorbs shock and vibration from the engine and assures efficient power flow.



TRANSMISSION

Komatsu's unique HYDROSHIFT transmission consists of planetary gears and is hydraulically actuated and force lubricated. Efficient power flow and simple direction and speed changes (3 forward and 3 reverse) are assured with a single lever. Inching pedal enables precise approach to targets and obstacles. It also offers dynamic digging force when depressed halfway and then abruptly released.

Travel speeds	Forward	Reverse
1st	2.4 km/h (1.5 MPH)	3.0 km/h (1.9 MPH)
2nd	4.4 km/h (2.7 MPH)	5.5 km/h (3.4 MPH)
3rd	7.6 km/h (4.7 MPH)	9.4 km/h (5.8 MPH)
Max. drawbar pull	12800 kg (28,220 lb/125 kN)	



STEERING

Wet, multiple-disc, spring-applied steering clutches are hydraulically boosted and self-adjusting, and interconnected with wet, contracting-band steering brakes for easy-to-control and extended service life of all components. This joint-pedal design of steering clutches and brakes assures quick, single-foot manipulation of all steering/braking actions.

Min. turning radius 2.7 m (8'10")



FINAL DRIVE

Spur gear, double-reduction final drive minimizes shock to power-train components.



UNDERCARRIAGE

Suspension Oscillation-type equalizer bar
Track roller frame Box-section, high-tensile-strength-steel construction

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

Number of track rollers (each side) 5

Number of carrier rollers (each side) 1

Track shoes: Assembled triple-grouser shoes. Unique W-shaped dust seals prevent dust from entering into pin-to-bushing clearances for extended service. Track tension is easily adjusted with a grease gun.

Number of shoes (each side) 37

Grouser height 25 mm (1.0")

Shoe width (standard) 400 mm (1'4")

Ground contact area 16480 cm² (2,554 sq.in)

Ground pressure 0.67 kg/cm² (9.53 PSI/65.7 kPa)



HYDRAULIC SYSTEM

Hydraulic control unit: Double-spool type control valve is externally installed. Gear-type hydraulic pump is mounted on the front of the transmission with a capacity (discharge flow) of 107 ltr (28.3 U.S. Gal)/min.

Relief valve setting 210 kg/cm² (2990 PSI/20.6 MPa)

Control valve:

Two control valves.

Positions: Bucket lift Raise, hold, float and lower

Bucket dump Dump, hold and tilt

Hydraulic cylinder: Double-action piston type

	Number of cylinders	Bore
Bucket lift	2	110 mm (4.33")
Bucket dump	2	100 mm (3.94")



BUCKET EQUIPMENT

All bucket movements—raising, lowering, dumping and tilting are achieved with a single bucket control lever. Automatic bucket positioner uses an electromagnetic valve to gain accurate bucket positioning. Bucket lever lock prevents accidental bucket movements. Less frequent greasing and fewer greasing points result in easy maintenance.

Bucket capacity 1.2 m³ (1.6 cu.yd)

Max. loading capacity 2400 kg (5,290 lb)

Dumping reach 1030 mm (3'5")

Dumping clearance 2600 mm (8'6")

Max. digging depth 285 mm (11.2")

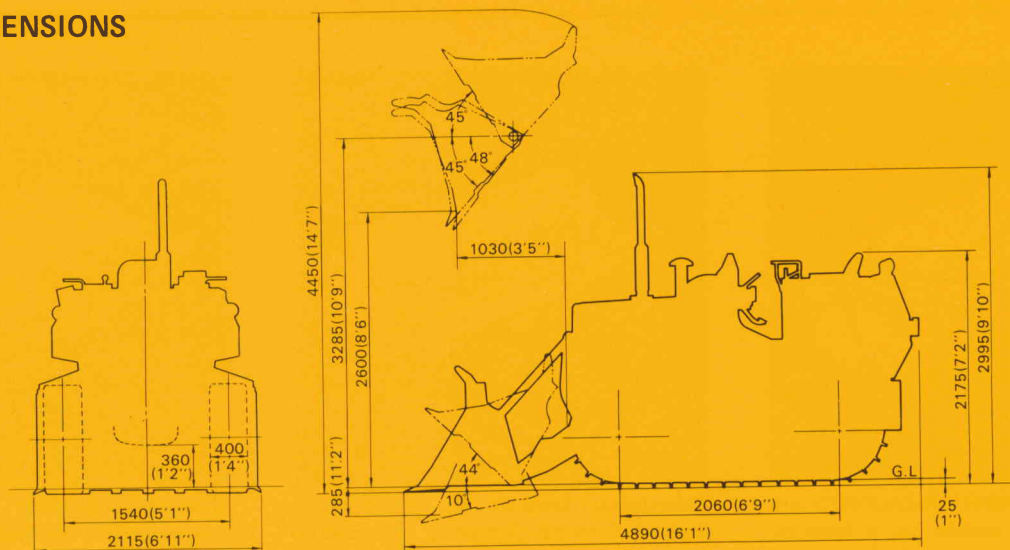
No. of teeth 7

Bucket width 2115 mm (6'11")

Bucket tilt-back angle at ground 44°



DIMENSIONS



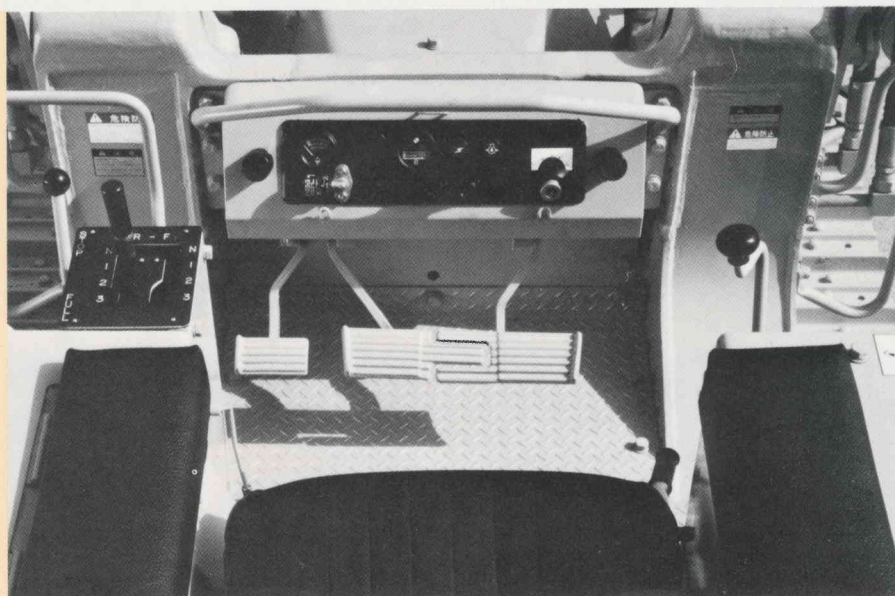
Ground clearance 360 mm (1'2")

Unit: mm (ft.in)



CONTROL

All control levers, pedals, meters and gauges are logically arranged for easy control. Walk-through operator compartment facilitates easy boarding and exiting. Comfortable seat is adjustable to fore/aft positions. A joint-pedal design for steering clutches and brakes greatly facilitates easy, effortless steering/braking control.



COOLANT & LUBRICANT CAPACITY (Refilling)

Coolant	33 ltr (8.7 U.S. Gal)
Fuel tank	245 ltr (65.0 U.S. Gal)
Engine	23 ltr (6.0 U.S. Gal)
Damper	1.6 ltr (0.4 U.S. Gal)
Transmission	21 ltr (5.5 U.S. Gal)
Bevel gear case & steering clutch	61 ltr (16.1 U.S. Gal)
Final drive (each side)	10 ltr (2.6 U.S. Gal)
Hydraulic oil	46 ltr (12.1 U.S. Gal)



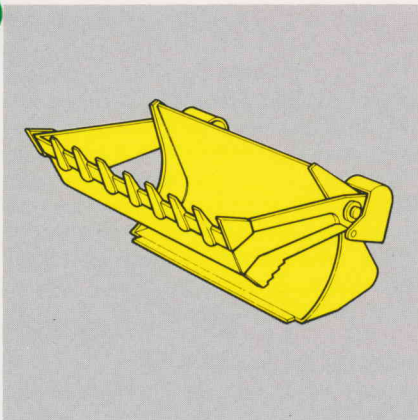
OPERATING WEIGHT (Approximate)

Operating weight includes rated capacity of lubricant, coolant and full fuel tank 11040 kg (24,340 lb)

STANDARD EQUIPMENT

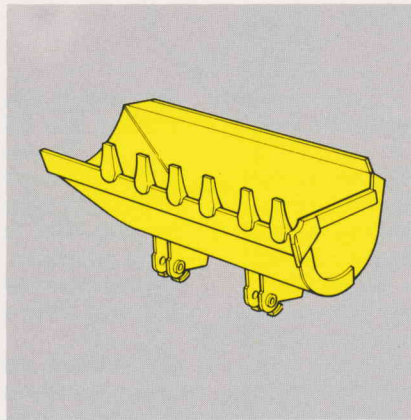
- HYDROSHIFT transmission
- Inching pedal
- 400 mm (1'4") triple-grouser shoe
- Hydraulic track adjusters
- 24 V, 25 A alternator
- 24 V, 5.5 kW electric starting motor
- Wet-type steering clutches and brakes
- In-line radiator
- Dry-type air cleaner with automatic dust evacuator and dust indicator
- 24 V (12 V x 2), 120 Ah batteries
- 5-roller track frames
- Lighting system (including one rear and two front lights)
- Monocast sprockets
- Lower guards (2 pieces)
- End track guiding guard
- Tool kit

Attachments



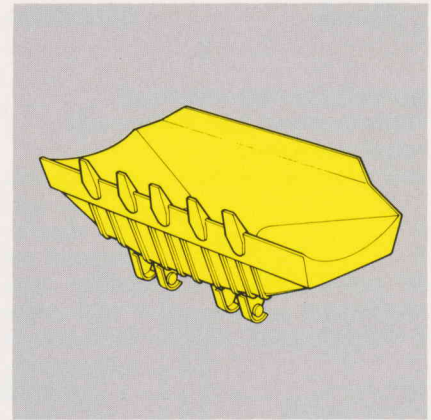
Multipurpose bucket: A bucket/blade combination is usable as a bucket, blade, scraper or cramshell for all-around loading, topsoil stripping and debris cleaning.

Additional weight . . . 509 kg (1,120 lb)
 Bucket capacity . . . 1.2 m³ (1.5 cu.yd)
 Bucket width 2115 mm (6'11")
 Max. loading capacity 2400 kg
 (5,290 lb/23.5 kN)
 Dumping clearance 2460 mm
 (8'1")
 Dumping reach 1005 mm (3'4")



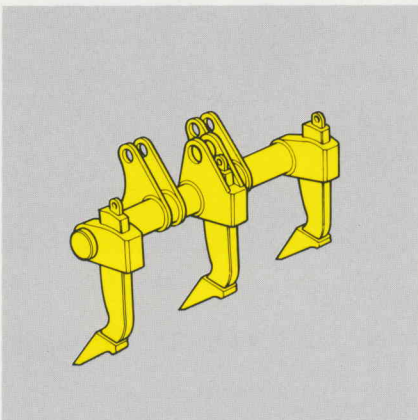
Side-dump bucket: In addition to normal forward dumping, side dumping without maneuvering the machine is possible.

Additional weight . . 1120 kg (2,470 lb)
 Bucket capacity . . . 1.2 m³ (1.6 cu.yd)
 Bucket width 2215 mm (7'3")
 Max. loading capacity 2400 kg
 (5,290 lb)
 Dumping clearance: Front dump at 45° discharge angle . . . 2450 mm (8')
 Side dump at 42° discharge angle to left or right 3440 mm (11'3")
 Dumping reach: Front dump at 45° discharge angle . . . 1175 mm (3'10")
 Side dump at 42° discharge angle to the left or right . . . 355 mm (1'2")



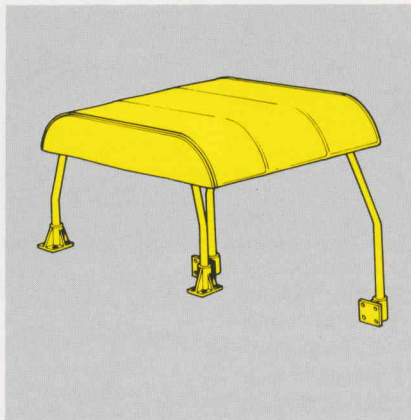
Three-way bucket: For performing forward, right- and left-side dumping.

Additional weight . . 1300 kg (2,870 lb)
 Bucket capacity . . . 1.2 m³ (1.6 cu.yd)
 Bucket width 2360 mm (7'9")
 Max. loading capacity 2400 kg
 (5,290 lb)
 Dumping clearance: Front dump at 45° discharge angle 2435 mm (8')
 Side dump at 42° discharge angle to left or right 3440 mm (11'3")
 Dumping reach: Front dump at 45° discharge angle . . . 1190 mm (3'10")
 Side dump at 42° discharge angle to the left or right . . . 355 mm (3'11")

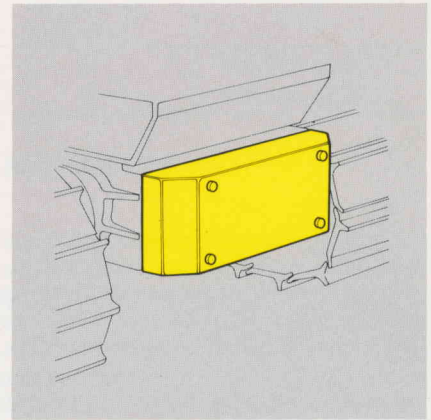


Multishank ripper: Rigid, hydraulically-controlled parallelogram-type ripper with 3 shanks. Digging depth adjustable in two stages.

Additional weight . . 850 kg (1,870 lb)
 Beam length 1555 mm (5'1")
 Max. lift above 400 mm (1'4")
 Max. digging depth . . 460 mm (1'6")



Canvas canopy: Additional weight 60 kg (132 lb)
 Dimensions:
 Length 1830 mm (6')
 Width 1520 mm (5')
 Height 1570 mm (5'2")



Counterweight:
 Additional weight . . . 317 kg (700 lb)
 Additional ground pressure . . . 0.019 kg/cm² (0.27 PSI/1.86 kPa)
 Dimensions (L x W x H)
 140 x 830 x 490 mm
 (5.5" x 2'9" x 1'7")

Materials and specifications are subject to change without notice.

KOMATSU LTD., Tokyo, Japan

ÉQUIPEMENT FÉDÉRAL QUÉBEC LIMITÉE
 895, MONTÉE DE LIASSE
 MONTRÉAL, QUÉBEC H4T 1R1
 VENTES - PIÈCES - SERVICE
 (514) 341-4590 ou sans frais 1-800-361-1412

1 - AVR. 1992