

D41E-6
D41P-6

KOMATSU

HORSEPOWER
105 HP 78 kW

BLADE CAPACITY
3.4 yd³ 2.6 m³



D41-6

270112E
CRAWLER DOZER

High Productivity



Powerful, Fuel-Efficient Engine:

The Komatsu S6D102E engine is a fuel-efficient, direct-injection turbocharged diesel. Fuel consumption is greatly reduced due to optimum combustion of the air-fuel mixture. This also ensures reduced noise and lower emissions. Designed to meet 1996 U.S. emission standards, this engine features high horsepower output and a very high torque rise yielding tremendous pushing power without lugging down.



Large-capacity Blade:

The blade is designed to move as much material as possible with minimal spillage. Quick hydraulic response for digging, raising, angling, and tilting boosts work efficiency and productivity. Thick, wear-resistant high-tensile steel plates are used to ensure long blade life.

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CRAWLER DOZER**

Flywheel Horsepower:

105 HP 78 kW @ 2400 RPM

Operating Weight:

(w/power angle-tilt-dozer & ROPS canopy)

D41E: **23,170 lbs** 10510 kg

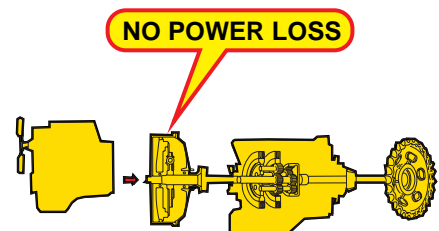
D41P: **24,230 lbs** 10990 kg

Blade Capacity:

3.4 yd³ 2.6 m³

HYDROSHIFT Transmission:

The D41-6 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 geared transmission. The hydroshift transmission efficiently converts engine power to traction through a direct-drive transmission, yet it offers smooth, easy shifting through a powershift transmission.



Closed-center Load Sensing System (CLSS):

With CLSS, precise and responsive blade control is achieved. Regardless of the size of the blade load, blade speed is proportional to the lever stroke. This ensures excellent simultaneous lifting, angling and tilting control.

Excellent Grading Ability



Outstanding Stability:

The large ground contact area created by the long tracks and wide track gauge combine with a low center of gravity to make the D41-6 a stable and well-balanced machine that can even perform precise grading work on rough or inclined terrain.

Extra Traction:

The long tracks, wide shoes and tall grousers bite the ground to increase traction, making the D41-6 a powerful, gutsy dozer for heavy-duty jobs even in soft, muddy areas.

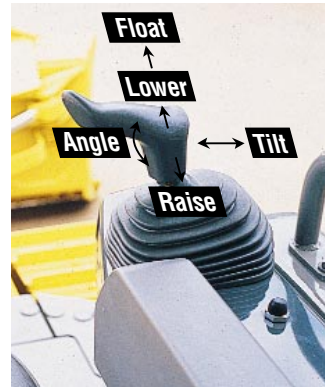
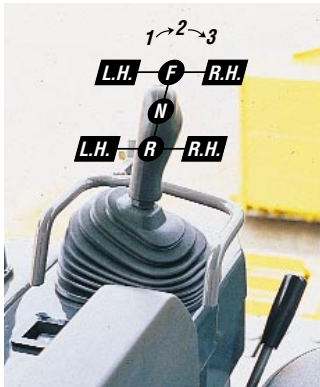


Exceptional Blade Visibility:

The slim engine hood and position of the operator's seat provide the operator excellent visibility to the blade. This clear blade visibility greatly increases the grading efficiency and reduces operator guesswork. Finish grading and rough grading can both be performed easily, drastically reducing cycle times.



High Maneuverability



Responsive Operation:

A single joystick on the left controls all speed and directional changes including:

- 1st to 3rd
- Forward and reverse
- Right and left steering

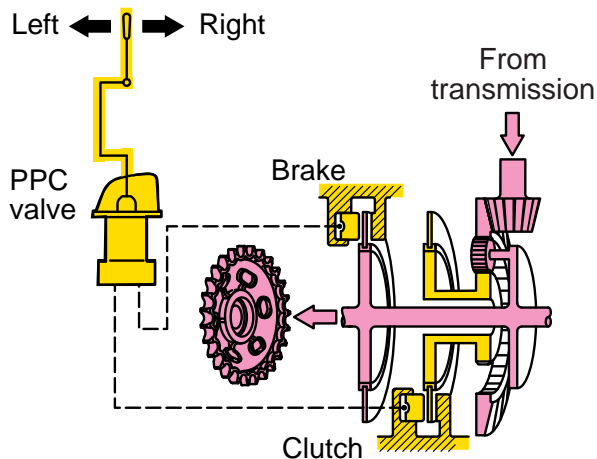
A single joystick on the right controls all blade functions including:

- Lifting
- Angling
- Tilting

This left and right joystick system offers unparalleled control for shorter cycle times.

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CRAWLER DOZER

D41-6



Active Clutch/Brake Steering:

The PPC (Proportional Pressure Control) valve built into the steering circuit, combined with full hydraulically controlled steering clutches and brakes, permit easy half engagement of the steering system. In addition, with this PPC valve, the lever stroke and operating effort are greatly reduced to minimize operator fatigue.

High Reliability & Easy Maintenance



Comfortable Cab:

For riding comfort, power train components are mounted to the frame with rubber pads to dampen vibration and reduce noise. The compact joystick controls allow smooth entrance and exit from the uncluttered cab. A suspension seat with reclining backrest improves riding comfort. The optional cab provides a clean, pressurized, comfortable environment in which to work and at the same time provides excellent front, side and rear visibility. Viscous dampers are used for cab suspension to lessen vibration and shocks for improved operator comfort and extended component life.



1) Electronic Monitor



2) Gull-wing Engine Side Covers



3) Oil Pressure Inspection Ports

Service Features Include:

- 1) An electronic monitoring system prevents minor problems from becoming major headaches.
- 2) The gull-wing engine side covers with a gas spring cylinder allow easy access to the engine and auxiliary components.
- 3) Oil pressure inspection ports for the power-train are centralized on the right operators' platform permitting quick and simple testing.
- 4) The modular power-train allows components to be individually removed and installed for shorter downtime.
- 5) Adjustment-free wet-type disc brakes ensure reliable braking and a longer service interval.
- 6) Clean track frames and flat bottom facilitate maneuvering on muddy terrain.
- 7) Bolt-on sprockets can be easily replaced even at the job-site.
- 8) Lubricated track links minimize pitch elongation for longer life.
- 9) The radiator coolant reservoir makes it easier to check the coolant level and eliminates frequent refilling.

Easy Transportation:

The standard blade can be angled to a width smaller than the width of the track shoes. Therefore, the dozer is easy to transport and always ready to go to a new job-site.



Specifications



ENGINE

ModelKomatsu S6D102E-1
 Type4-cycle, water-cooled, direct injection
 AspirationTurbocharged
 No. of cylinders6
 Bore**4.02"** 102 mm
 Stroke**4.72"** 120 mm
 Piston Displacement**360 in³** 5.9 ltr.
 Flywheel Horsepower:
 SAE J1349**105 HP** 78 kW @ 2400 RPM
 DIN 6270 NET..**106 PS** 78 kW @ 2400 RPM
 GovernorAll-speed, mechanical



TORQFLOW 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).

D41E-6

Travel Speed	Forward	Rated drawbar pull	Reverse
1st	1.5 MPH 2.4 km/h	21,850 lb 9910 kg	1.9 MPH 2.0 km/h
2nd	2.7 MPH 4.4 km/h	11,200 lb 5080 kg	3.4 MPH 5.5 km/h
3rd	4.7 MPH 7.6 km/h	5,640 lb 2560 kg	5.8 MPH 9.4 km/h

Max. drawbar pull**32,500 lb** 14740 kg

D41P-6

Travel Speed	Forward	Rated drawbar pull	Reverse
1st	1.5 MPH 2.4 km/h	21,780 lb 9880 kg	1.9 MPH 3.0 km/h
2nd	2.7 MPH 4.4 km/h	11,110 lb 5040 kg	3.4 MPH 5.5 km/h
3rd	4.7 MPH 7.6 km/h	5,560 lb 2520 kg	5.8 MPH 9.4 km/h

Max. drawbar pull**32,410 lb** 14700 kg



STEERING SYSTEM

Single-lever controls for all directional movements. Simply tilt the lever to the left to make a left turn. Tilt it to the right to make a right turn. Pushing the lever forward results in forward movement, pulling it toward the operator reverses the machine. Wet, single-disc steering clutch is hydraulically actuated and released. Wet, single-disc steering brakes are hydraulically actuated. A PPC valve integrated into the steering circuit facilitates smooth, shockless steering control.



FINAL DRIVES

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



UNDERCARRIAGE

SuspensionRigid Type
 Track roller frameBox-section, high-tensile-strength steel construction
 Rollers and idlersLubricated carrier/track rollers and idlers are sealed with floating seals.
 Track shoesLubricated tracks. Single-grouser shoes. Unique dust seals for preventing entry of contaminants into pin-to-bushing clearances for extended service. Track tension is easily adjusted with a grease gun.

	D41E	D41P
No. of shoes each side	41	44
Grouser height	2.1" 53 mm Single Grouser	2.1" 53 mm Single Grouser
Shoe width (standard)	20.1" 510 mm	27.5" 700 mm
Ground contact area	3930 in² 25350 cm ²	6000 in² 38430 cm ²
Ground pressure	5.9 PSI 0.41 kg/cm ²	4.0 PSI 0.28 kg/cm ²
No. of track rollers	6	7
No. of carrier rollers	1	1
Track Gauge	5'10" 1790 mm	5'10" 1790 mm



COOLANT & LUBRICANT CAPACITY (refill)

Coolant**7.4 U.S. gal.** 28 ltr.
 Fuel tank**59.4 U.S. gal.** 225 ltr.
 Engine oil.....**5.8 U.S. gal.** 22 ltr.
 Damper Case**0.21 U.S. gal.** 0.8 ltr.
 Transmission**5.0 U.S. gal.** 19 ltr.
 Bevel gear and steering clutch**19.6 U.S. gal.** 74 ltr.
 Final drive (each side)**3.4 U.S. gal.** 13 ltr.



OPERATING WEIGHT (approximate)

Tractor weight: including ROPS canopy, standard equipment, operator, rated capacity of lubricant, coolant, and full fuel tank.

D41E-6**18,470 lb** 8380 kg
 D41P-6**19,730 lb** 8950 kg

Operating weight: including dozer, ROPS canopy, standard equipment, operator, rated capacity of lubricant, coolant, and full fuel tank.

D41E-6**23,170 lb** 10510 kg
 D41P-6**24,430 lb** 11080 kg

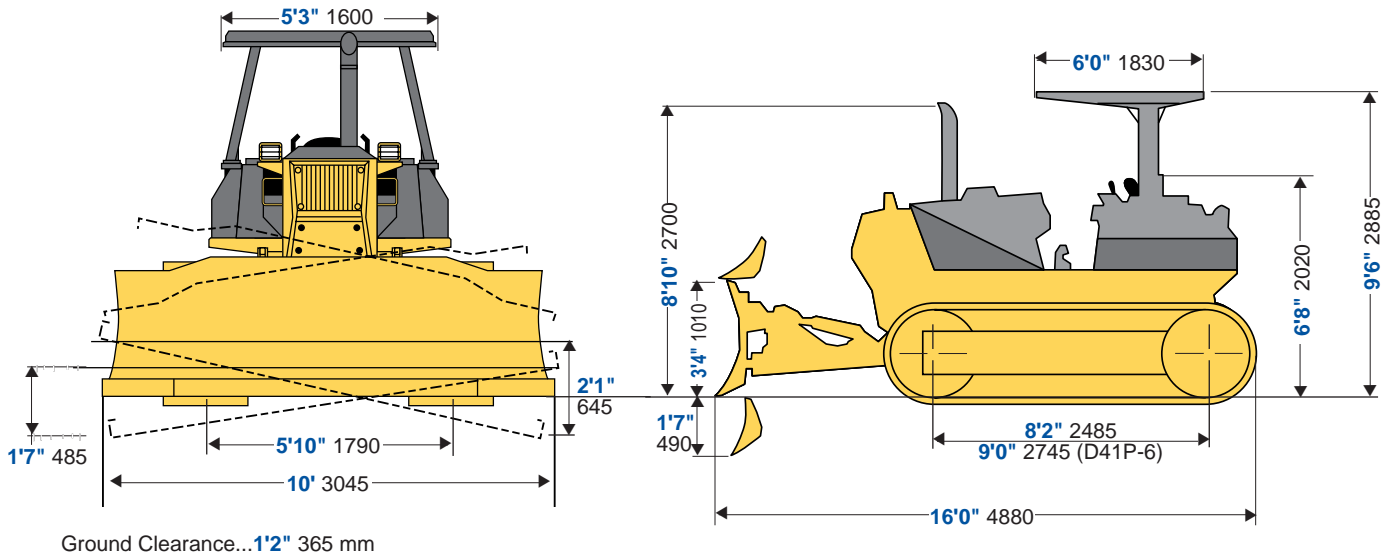
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DIMENSIONS

D41E-6 equipped with ROPS Canopy and power-angle tilt dozer

Unit: ft. in. mm



HYDRAULIC SYSTEM

Hydraulic control unit: Gear-type hydraulic pump with capacity (discharge flow) of **23.8 U.S. gal/min** 90 ltr., at rated engine RPM.

Relief valve setting: **2,990 PSI** 210 kg/cm²

Control valves:

- Three control valves for power-angle-tiltdozer

Positions:

Blade liftRaise, hold, lower and float
 Blade angle.....Left, hold and right
 Blade tiltLeft, hold and right

- Additional control valve required for ripper

Positions:

Ripper liftRaise, hold and lower

Hydraulic cylinders: Double-acting, piston type

	Number of cylinders	Bore
Blade lift	2	4.13" 105 mm
Blade tilt	1	4.33" 110 mm
Blade angling	1	5.12" 130 mm



DOZER EQUIPMENT

The D41 uses box construction of the back plate while using high-tensile-strength steel in the moldboard to ensure extended service. Hydraulic hoses for blade angling and tilting are covered with steel plates for protection from damage.

POWER ANGLE-TILT-DOZER:

	Overall length with dozer	*Blade capacity (SAE)	Blade length x height	Max. lift above ground	Max. drop below ground	Max. tilt adjustment		Blade Angle		Additional weight		Transport Width
						L.H.	R.H.	L.H.	R.H.	Dozer equipment	Hyd. control unit	
D41E	16' 4880 mm	3.4 yd³ 2.6 m ³	10' x 3'6" 3045 mm x 1060 mm	3'4" 1010 mm	1'7" 490 mm	1'7" 485 mm	2'1" 645 mm	55°	25°	3,480 lb 1580 kg	460 lb 210 kg	7'10" 2395 mm
	16' 4880 mm	3.8 yd³ 2.9 m ³	11' x 3'6" 3350 mm x 1060 mm	3'4" 1010 mm	1'7" 490 mm	1'9" 530 mm	2'4" 710 mm	55°	25°	3,660 lb 1660 kg	460 lb 210 kg	8'2" 2485 mm
D41P	16' 4880 mm	3.4 yd³ 2.6 m ³	10' x 3'6" 3045 mm x 1060 mm	3'4" 1010 mm	1'7" 490 mm	1'7" 485 mm	2'1" 645 mm	55°	25°	3,480 lb 1580 kg	460 lb 210 kg	8'2" 2490 mm
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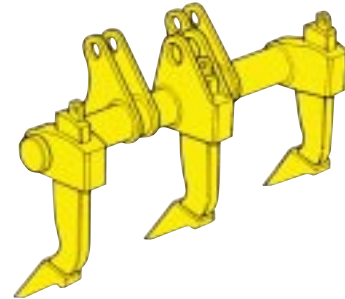
STANDARD EQUIPMENT

- Air cleaner, double element
- Alternator, 40 amp.
- Back-up alarm
- Batteries, 2 x 12v
- Blower cooling fan
- Decelerator pedal
- Dozer assembly, power angle tilt
- Electronic instrument panel
- Engine hood and gull-wing side covers
- Fenders
- Hitch
- Locks, filler cap and covers
- ROPS mounting brackets
- Seat, suspension type with seat belt
- Single grouser shoes
 - **20.1"** 510mm D41E-6
 - **27.8"** 700mm D41P-6 with sealed and lubricated link assembly
- Track roller guards, center section

Unit must be equipped with ROPS canopy

OPTIONAL EQUIPMENT

- Air conditioner
- Cab
- Dozer assembly
 - power angle tilt, wide blade
- Drawbar, swing type
- Guarding packages
- Heater and defroster
- Ripper, multi shank
- ROPS canopy
- Shoes:
 - **22.2"** 560mm D41E-6
 - **27.8"** 700mm circ.arc D41P-6
- Pull hook, front
- Track roller guards, full length
- Vandalism protection cover for instrument panel
- Water separator



ROPS*

*Meets ISO 3471, SAE J1040 APR88 and SAE J395a ROPS standards, as well as ISO 3449 FOPS standards.

Canopy for Steel Cab

Additional Weight.....**550 lb** 250 kg
Overall Height**9'6"** 2885 mm

Canopy

Additional Weight.....**750 lb** 340 kg
Overall Height**9'6"** 2885 mm

Steel Cab

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

Additional Weight.....**630 lb** 285 kg
Roof dimensions:

Height from floor to ceiling**5'2"** 1515 mm

Multi-shank ripper (D41E-6)

Hydraulically controlled parallelogram-type ripper with 3 shanks.

Additional Weight (including hydraulic control unit)**550 lb** 250 kg
Beam length**5'1"** 1555 mm
Max. lift above grounds....**1'4"** 400 mm
Max. digging depth**1'6"** 460 mm

KOMATSU

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