KOMATSU®

D41E-6
D41P-6

FLYWHEEL HORSEPOWER
82 kW 110 HP @2400 rpm

OPERATING WEIGHT
D41E-6: 10770 kg 23,740 lb
D41P-6: 11340 kg 25,000 lb

D
41

Photo may include optional equipment

ADVANCE

Crawler Dozer

D41E-6, D41P-6 avance BOSS Crawler Dozer

WALK-AROUND

The Komatsu S6D102E-1 turbocharged diesel engine provides an output of 82 kW **110 HP**, with excellent productivity, while meeting current emissions standards.

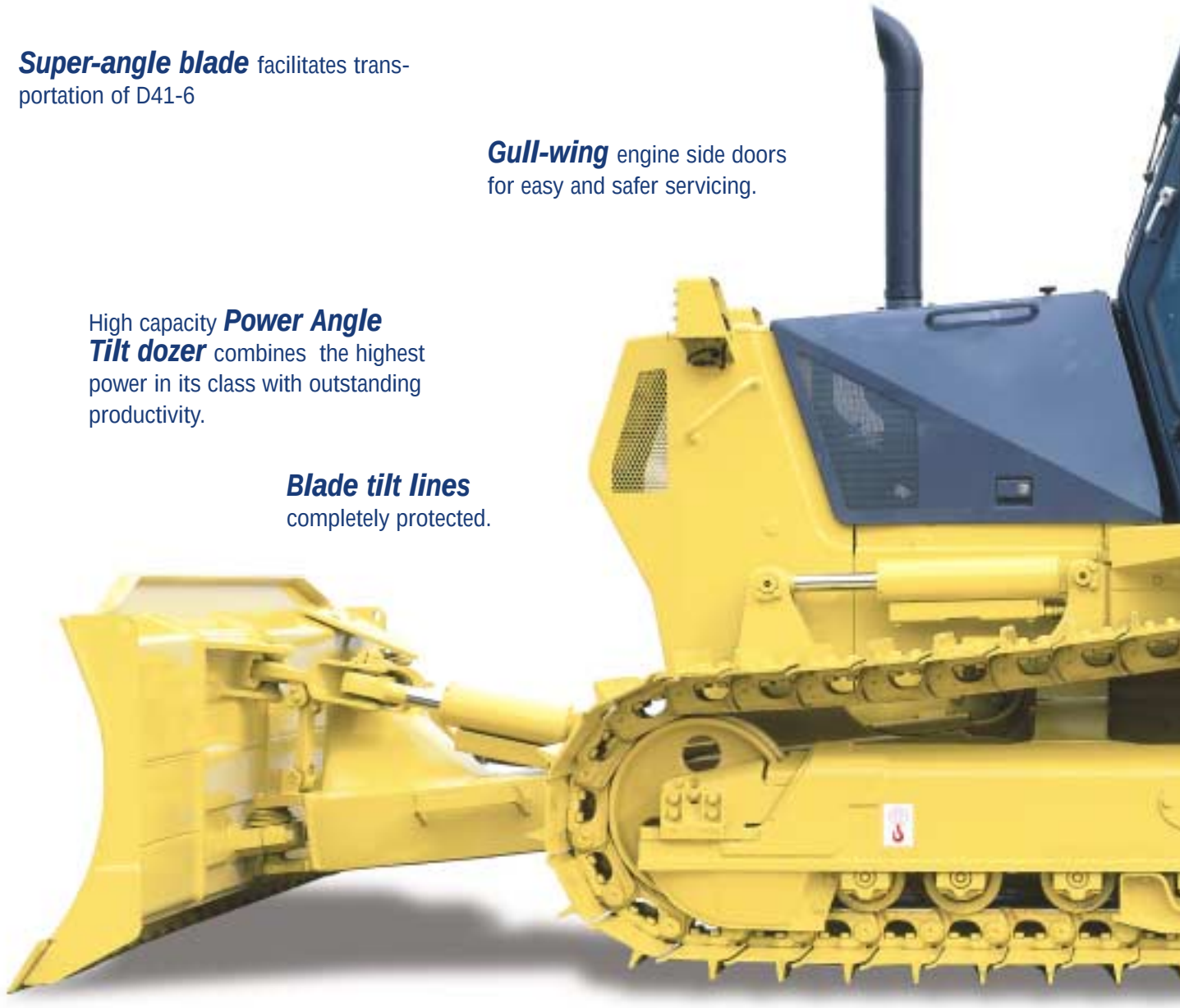
Left hand ***joystick*** controls all tractor motion. Right hand joystick controls all blade movements.

Super-angle blade facilitates transportation of D41-6

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

High capacity ***Power Angle Tilt dozer*** combines the highest power in its class with outstanding productivity.

Blade tilt lines completely protected.



Komatsu Hydroshift transmission offers single lever control of speed (3 forward and 3 reverse) and directional changes.

D41E/P-6
CRAWLER DOZER

FLYWHEEL HORSEPOWER
82 kW **110 HP** @ 2400 rpm

OPERATING WEIGHT
D41E-6: 10770 kg **23,740 lb**
D41P-6**:** 11340 kg **25,000 lb**

BLADE CAPACITY
PAT DOZER:
D41E-6: 2.9 m³ **3.8 yd³**
D41P-6: 2.9 m³ **3.8 yd³**

Electronic Monitoring System prevents minor problems from developing into major ones.

Optional hexagonal, low noise cab
with viscous dampening mounts provides unsurpassed operator comfort and visibility.

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

Active steering clutch/brake
PPC (Proportional Pressure Control) valve operated single disc steering clutches/brakes providing active and light operating effort, permit easy half engagement of steering system.

Bolt-on sprocket
for ease of maintenance.

Modular power train for increased serviceability and durability.

Photo may include optional equipment.

OPERATOR'S COMPARTMENT

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. Since the D41 employs joysticks, the walk-through operator compartment is uncluttered for smooth entry and exit. A suspension seat with backrest is standard equipment.

Three-stage height adjustable armrests

Three-stage height adjustable arm rests and relocated fuel control lever provide comfortable operation and increase leg space.

Hexagonal Pressurized Cab (Optional)

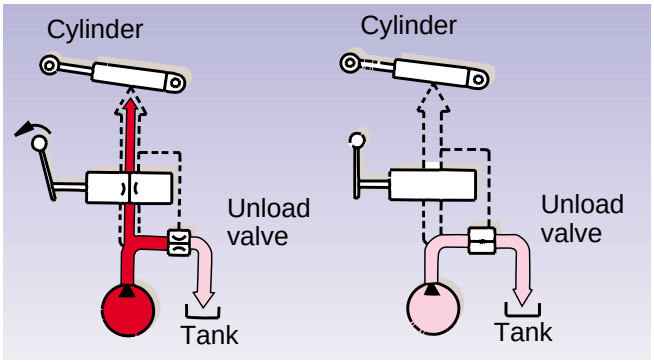
This is another added comfort feature. Air filters and a higher internal air pressure combine to prevent external dust from entering the cab. In addition, the cab's hexagonal design provides excellent front, sides, and rear visibility. Viscous dampening cab suspension mounts soften shocks for operator comfort and extends component life.

Easy-to-Operate Work Equipment Control Lever

With the Closed-center Load Sensing system (CLSS) , blade lever stroke is directly proportional with blade speed, regardless of the load and travel speed. This results in superb, fine controllability.

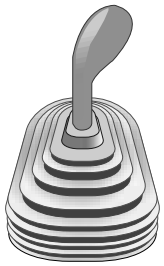
Benefits of CLSS

- 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.
- Compound operation such as blade raise, tilt and angle is easy due to CLSS parallel circuit with pressure compensation valve.



Three-stage height adjustable armrests

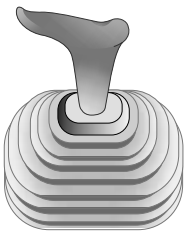
All steering, direction, and speed changes are made by a left-hand single joystick control. If the operator wants to move the machine forward and to the left, he simply moves the joystick forward and to the left. If he desires a gear change, he merely twists his wrist. The machine responds to the movement of the lever providing the operator with the feeling of natural control with Komatsu's joystick.



Left Hand

Steering Functions

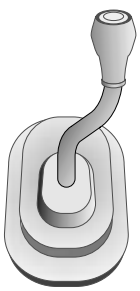
- Forward and reverse
- Right and left steering
- First, to second, to third shifting



Right Hand

Blade Functions

- Lifting and lowering
- Tilting
- Left and right angling



Ripper Functions

(Optional)

- Raise and lower

Engine and Hydroshift Transmission

Komatsu S6D102E-1 Turbocharged Diesel Engine

Powerful Engine

A powerful S6D102E-1 turbocharged diesel engine provides a massive output of 82 kW **110 HP.** The engine power is transmitted smoothly to the final drives via a high-efficiency Hydroshift transmission. This engine also meets current emissions standards, without sacrificing power or machine productivity.

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 gear transmission. The hydroshift transmission efficiently converts engine power to traction through a direct drive transmission, yet it offers smooth, easy shifting through a power shift transmission.

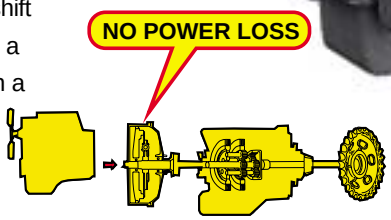
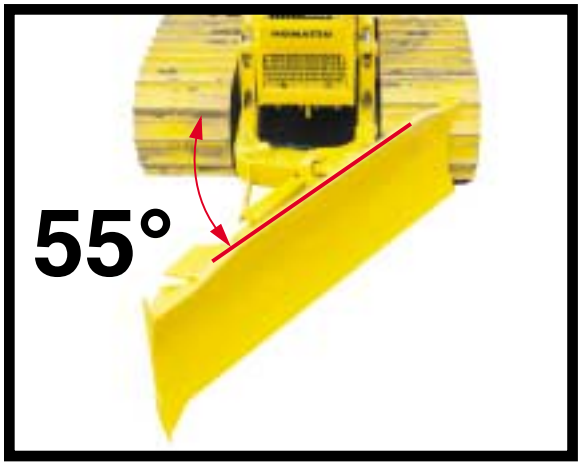


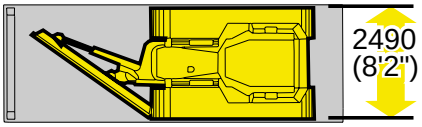
Photo may include optional equipment

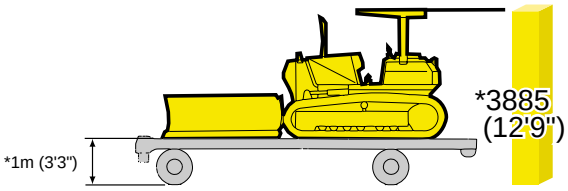
Excellent Grading Ability

Super Angle Blade—
Blade Angles Responding to Job-Site Conditions

Komatsu's exclusive Super-angle blade angles freely to a maximum 55°, enabling fine grading in any job site conditions. The standard super-angle 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.



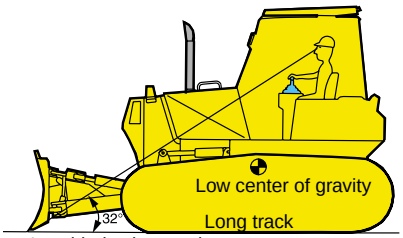




*When transporting with 1m (3'3") trailer height

Outstanding Stability

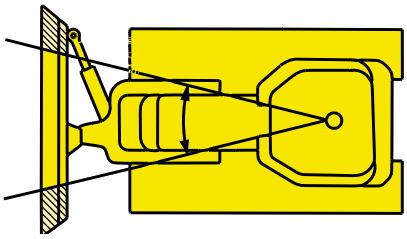
The large ground contact area created by the long tracks and wide track gauges combine with a low center of gravity to make the D41-6 a stable and well balanced machine that can perform precise grading work even on rough or inclined terrain.



Low blade view angle

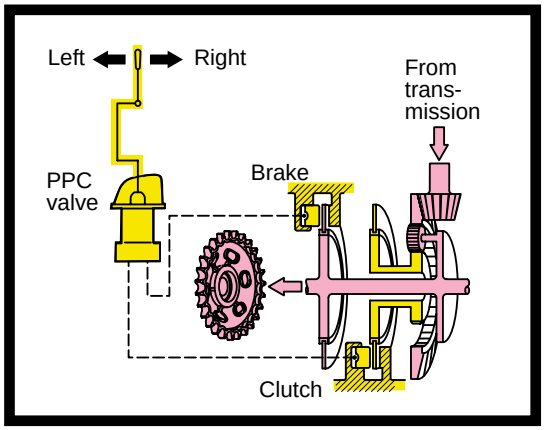
Exceptional Blade Visibility

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



Active Steering Clutch/Brake

Fully hydraulically controlled single-disc steering clutches/brakes are operated by a PPC (Proportional Pressure Control) valve built-into the circuits, permitting easy half engagement of the steering clutches/brakes system. In addition, with this PPC valve the lever stroke and operating effort are greatly reduced to minimize operator fatigue.



Undercarriage and Frame

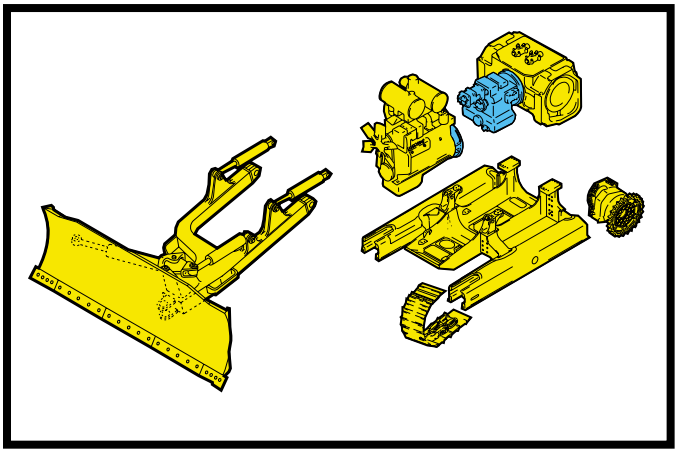
Undercarriage

Low Drive and Long Track Undercarriage

Komatsu's design is extraordinarily tough and offers excellent grading ability and stability.

Improvements

Numerous improvements to increase undercarriage reliability and durability have been incorporated. Life of the undercarriage is greatly extended by increased link height, pins and bushing diameter and employment of double-flanged track rollers.



Frame

Flat Bottom Frame

A **flat bottom frame** and the monocoque track frames provide good maneuverability in muddy terrain by preventing mud from building up under the frame.

Modular Designed Power Train Units

The modular design allows easy removal and installation of any individual unit for shorter downtime.

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.

Maintenance Features

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.

- *Charge Lamp*
- *Engine Oil Pressure Caution Lamp*
- *Engine Water Temperature Caution Lamp*
- *Engine Water Temperature Gauge*
- *Fuel Gauge*
- *Intake Air Heater Lamp*
- *Monitor Caution Cancel Switch*
- *Monitor Caution Lamp*
- *Service Meter*
- *Transmission Gear Indicator*

Gull-Wing Engine Side Covers

With a gas-spring cylinder that opens widely, the engine and the auxiliary components can be checked easily.

Wet, Single-Disc Brakes

Eliminates brake-band adjustments for maintenance-free operation.

Reservoir

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

Test Ports

***Oil pressure test ports** for the power train are centralized on the right hand side of the operator platform for easy access.*

SPECIFICATIONS

ENGINE

Model . . . . . Komatsu S6D102E-1
Type . . . . . 4-stroke cycle, water-cooled, emissionized, direct injection, turbocharged engine
Number of cylinders 6
Bore . . . . . 102 mm **4.02"**
Stroke . . . . . 120 mm **4.72"**
Piston displacement . . . . . 5.88 ltr **359 in³**
Net flywheel horsepower*
SAEJ1349 . . . . . 82 kW **110 HP** @ 2400 rpm
DIN6270 . . . . . 82 kW **112 PS** @ 2400 rpm
Net maximum torque . . . . . 47 kg•m **340 ft lb** @ 1300 rpm

Direct injection fuel system. All-speed mechanical governor. Forced lubrication driven by gear pump. Full-flow for lube purification. Dry-type air cleaner with automatic dust evacuator and dust indicator. 5.5 kW/**24V** electrical starter motor. 40 A/**24V** alternator. 65 Ah/**2 x 12V** batteries.

* Net flywheel horsepower output for standard engine (SAE J1349) including air cleaner, alternator (not charging), water pump, lubricating oil pump, fuel pump, muffler, and fan.

HYDROSHIFT TRANSMISSION

Komatsu's unique HYDROSHIFT transmission with planetary gears is hydraulically controlled. Efficient power flow and simplified direction and speed changes. Joystick control of gears (3 forward and 3 reverse), directional and steering changes. Gearshift lock lever and neutral safety switch prevent machine from accidental starts.

Travel speed	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**

Rated drawbar pull	D41E-6	D41P-6
Forward 1st	102 kN/10380 kgf/**22,880 lb**	101 kN/10350 kgf/**22,820 lb**
Forward 2nd	52.1 kN/5310 kgf/**11,710 lb**	51.8 kN/5280 kgf/**11,640 lb**
Forward 3rd	26.2 kN/2670 kgf/**5,890 lb**	25.9 kN/2640 kgf /**5,820 lb**
Max. drawbar pull	144 kN/14740 kgf/**32,500 lb**	144 kN/14700 kgf/**32,410 lb**

STEERING

Joystick controls for all directional movements. Pushing the joystick forward results in forward machine travel, while pulling it rearward reverses the machine. Simply tilt the joystick to the left to make a left turn. Tilt it to the right for a right turn.

Wet, single-disc steering clutches are hydraulically actuated. A PPC valve integrated into steering circuit facilitates smooth, shockless steering control.

Minimum turning radius:
D41E-6 . . . . . .2.4 m **7'10"**
D41P-6 . . . . . .2.6 m **8'6"**

As measured by track marks on ground.

FINAL DRIVE

Spur gear single-reduction, final drives increase tractive effort. Bolt-on sprockets are for easy in-the-field replacement.

UNDERCARRIAGE

Suspension . . . . . Rigid type and forward mounted pivot shafts
Track roller frame . . . . . Monocoque, box section, high-tensile-strength steel durable construction
Number of carrier rollers (each side) 1
Track shoes . . . . . Lubricated tracks. Unique dust seals for preventing entry of foreign abrasive into pin-to-bushing clearances for extended service. Track tension is easily adjusted with a grease gun.

	D41E-6	D41P-6
Number of track rollers (each side)	6	7
Number of shoes (each side)	41	44
Grouser height	53 mm **2.1"**	53 mm **2.1"**
Shoe width (standard)	510 mm **20"**	700 mm **28"**
Ground contact area	25350 cm² **3,930 in²**	38430 cm² **6,000 in²**
Ground pressure (Tractor)	33.3 kPa 0.34 kgf/cm² **4.83 psi**	23.5 kPa 0.24 kgf/cm² **3.41 psi**
Track gauge	1790 mm **5'10"**	1790 mm **5'10"**
Length of track on ground	2485 mm **8'2"**	2745 mm **9'0"**

COOLANT AND LUBRICANT CAPACITY (REFILLING)

Coolant	28 ltr	**7.4 U.S. gal**
Fuel tank	225 ltr	**59.4 U.S. gal**
Engine oil	22.8 ltr	**6.0 U.S. gal**
Damper	1.1 ltr	**0.3 U.S. gal**
Transmission	19 ltr	**5.0 U.S. gal**
Bevel gear and steering system	74 ltr	**19.6 U.S. gal**
Final drive (each side)	13 ltr	**3.4 U.S. gal**

OPERATING WEIGHT (APPROXIMATE)

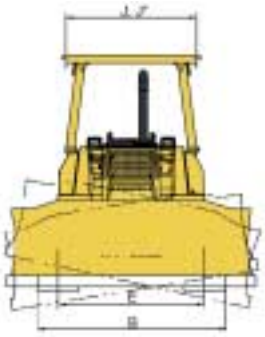
Tractor weight:
Including rated capacity of lubricant, coolant, full fuel tank, operator and standard equipment.
D41E-6 . . . . . 8640 kg **19,050 lb**
D41P-6 . . . . . 9220 kg **20,330 lb**

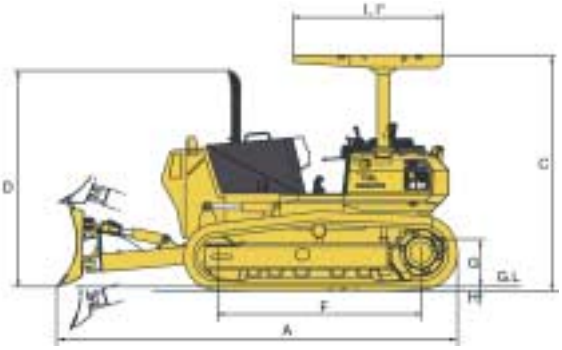
Operating weight:
Including power angle tilt dozer, ROPS canopy, operator, standard equipment, rated capacity of lubricant, coolant, and full fuel tank.
D41E-6 . . . . . 10770 kg **23,740 lb**
D41P-6 . . . . . 11340 kg **25,000 lb**

DIMENSIONS

	D41E-6		D41P-6	
A	4880 mm	**16'0"**	4880 mm	**16'0"**
B	2300 mm	**7'7"**	2490 mm	**8'2"**
C	2885 mm	**9'6"**	2885 mm	**9'6"**
D	2700 mm	**8'10"**	2700 mm	**8'10"**
E	1790 mm	**5'10"**	1790 mm	**5'10"**
F	2485 mm	**8'2"**	2745 mm	**9'0"**
G	525 mm	**1'9"**	525 mm	**1'9"**
H	53 mm	**2.1"**	53 mm	**2.1"**
I	1830 mm	**6'0"**	1830 mm	**6'0"**
I*	1270 mm	**4'2"**	1270 mm	**4'2"**
J	1600 mm	**5'3"**	1600 mm	**5'3"**
J*	1490 mm	**4'11"**	1490 mm	**4'11"**

*ROPS canopy when cab installed





Ground clearance: 365 mm **1'2"**

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. Gear-type hydraulic pump with capacity (discharge flow) of 90 ltr/min **23.8 U.S. gal/min** at rated engine rpm.

Relief valve setting . . . . . 20.6 MPa /210 kg/cm^2 **2,990 psi**

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

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

Hydraulic oil capacity (refilling):
Power angle tilt dozer. . . . . **37.0 ltr** 9.8 U.S. gal

Control valves:
3-Spool control valve for power angle tilt dozer.
Positions:
Blade lift. . . . . Raise, hold, lower, and float
Blade tilt . . . . . Right, hold, and left
Blade angle . . . . . Right, hold, and left

Additional control valve required for ripper.
Positions:
Ripper lift . . . . . Raise, hold, and lower

DOZER EQUIPMENT

D41-6 uses box construction of the back plate while using high-tensile-strength steel in moldboard to ensure extended service. Hydraulic hoses for blade angling and tilting are covered with steel plates for protection from damage.

	Overall Length With Dozer	Blade Capacity (SAE)	Blade Width x Height	Max. Lift Above Ground	Maximum Below Ground	Tilt Adjustment		Blade Angle		Additional Weight	
						L.H.	R.H.	L.H.	R.H.	Dozer equipment	Hydraulic control unit
D41E-6 Power Angle Tilt Dozer	4880 mm **16'**	2.6 m^3 **3.4 yd^3**	3045 mm x 1060 mm **10' x 3'6"**	1010 mm **3'4"**	490 mm **1'7"**	485 mm **1'7"**	645 mm **2'1"**	55°	25°	1580 kg **3,480 lb**	210 kg **460 lb**
D41E-6 Power Angle Tilt Dozer	4880 mm **16'**	2.9 m^3 **3.8 yd^3**	3350 mm x 1060 mm **11' x 3'6"**	1010 mm **3'4"**	490 mm **1'7"**	530 mm **2'3"**	710 mm **2'4"**	55°	25°	1660 kg **3,660 lb**	210 kg **460 lb**
D41P-6 Power Angle Tilt Dozer	4880 mm **16'**	2.6 m^3 **3.4 yd^3**	3045 mm x 1060 mm **10' x 3'6"**	1010 mm **3'4"**	490 mm **1'7"**	485 mm **1'7"**	645 mm **2'1"**	55°	25°	1580 kg **3,480 lb**	210 kg **460 lb**
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* When equipped with the 3350 mm **11 ft** width blade, maximum blade angle is 30 degrees and overall width is 2990 mm **9'10"**.

STANDARD EQUIPMENT FOR BASE MACHINE

- Air cleaner, double element with dust indicator
- Alternator, 40 ampere
- Adjustable seat
- Backup alarm
- Batteries, 65 Ah/**2 x 12V**
- Blower cooling fan
- Decelerator pedal
- Electronic instrument monitor panel
- Engine hood and gull-wing side covers
- Fenders
- Front pull hook
- High mount footrests
- Hitch (D41E)
- Hydraulics for Power Angle Tilt dozer
- Intake pipe with precleaner
- Lighting system, (includes 2 front, 1 rear)
- Locks, filler caps and covers
- Mono-lever steering with PPC
- Muffler with curved exhaust pipe
- Radiator reserve tank
- Rear cover
- ROPS mounting brackets
- Seat belt, retractable
- Suspension seat, high back and reclining
- Starting motor, 5.5 kW/**24V**
- Track roller guard, center section (D41P)
- Track roller guard, end sections (D41E)
- Track shoe assembly
  —Sealed and lubricated track
  - 510 mm **20"** single grouser shoe (D41E)
  - 700 mm **28"** single grouser shoe (D41P)
- Underguards, oil pan and transmission

OPTIONAL EQUIPMENT

- Air conditioner
- AR track assembly (abrasion resistant bushings)
- Cab
- Cab accessories
  —Additional lights
  —Sunvisor
  —Rear view mirror
- Hitch, deluxe
- Heater and defroster
- Hydraulics for ripper (D41E)
- Light working, cab additional
- Radiator core protective grid
- ROPS canopy
- ROPS canopy with sweep
- Suspension seat
  —Reclining with fabric material (cab only)
  —Turn-able, reclining with fabric material (cab only)
  —Turn-able and reclining
  —High-back and reclining with fabric material (cab only)
- Shoe, single grouser 560 mm **22"** (D41E)
  Circle arc 700 mm **28"** (D41P)
- Track guard, full length
- Underguard, heavy-duty
- Vandalism protection cover for instrument panel
- Water separator

ROPS CANOPY

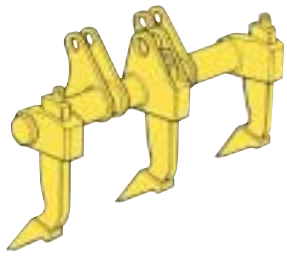
- Additional weight 340 kg **750 lb**
- Meets ISO 3741, SAE J1040 APR88, and ISO 3449 FOPS standards.
- Roof dimensions:
  —Length: 1830 mm **6'0"**
  —Width: 1600 mm **5'3"**
  —Height from operator compartment floor: 1610 mm **5'3"**

ROPS CANOPY FOR CAB

- Additional weight 250 kg **550 lb**
- Meets ISO 3741, SAE J1040 APR88, and ISO 3449 FOPS standards
- Roof dimensions:
  —Length: 1270 mm **4'2"**
  —Width: 1490 mm **4'11"**
  —Height from operator compartment floor: 1610 mm **5'3"**

STEEL CAB

- Additional weight 370 kg **820 lb**
- All-weather, enclosed pressurized cab
- Dimensions:
  —Length: 1765 mm **5'9"**
  —Width: 1720 mm **5'8"**
  —Height: 1625 mm **5'4"**
  —Height from floor to ceiling: 1515 mm **5'0"**



MULTI-SHANK RIPPER (D41E)

- Additional weight (including hydraulic control unit): 810 kg **1,790 lb**
- Beam length: 1555 mm **5'1"**
- Maximum digging depth: 510 mm **1'8"**
- Maximum lift above ground: 350 mm **1'2"**

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.

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.

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

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.

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