

D37E-5/D37P-5

KOMATSU

HORSEPOWER
75 HP 56.0 kW

OPERATING WEIGHT
15,080 - 16,450 lb
6855 - 7477 kg



CRAWLER DOZER
D37-5

D37-5

D37E-5/D37P-5 WALK-AROUND

Operator Oriented Design for Easy Operation



Wrist-control type single-lever (joystick) for steering/speed/directional change for easy and smooth operation.

Wrist-control type single-lever (joystick) for blade control reduces operating effort for blade tilt and angle.

A HYDROSHIFT transmission allows quick speed and directional changes (F3/R3).

Efficient Turbocharged S4D102E engine provides powerful and fuel-saving operation.

Long tracks provide greater stability and superior grading ability.

Inching pedal permits precise movement in tight quarters and allows for full hydraulic response and tractive effort at reduced ground speeds.

Simplified Maintenance

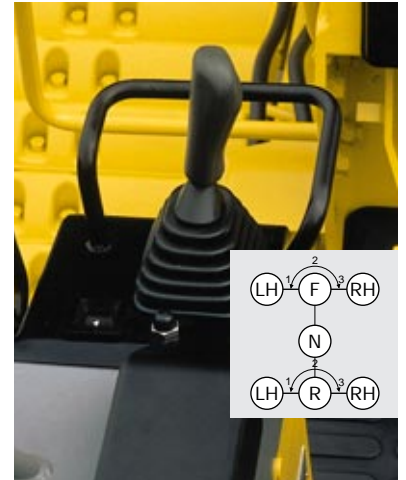
- Spin-on filters, air cleaner with dust evacuator.
- Easy-to-drain fuel tank minimizes maintenance.
- Automatic fan belt tensioner and radiator coolant reservoir facilitate simplified maintenance.

OPERATOR'S COMPARTMENT



Responsive Operation

Joysticks are the logical choice for providing smooth, precise control in order to gain maximum productivity. Their operation mirrors the natural motion of the activity the operator wishes to perform.



The left joystick controls all speed and directional changes including:

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

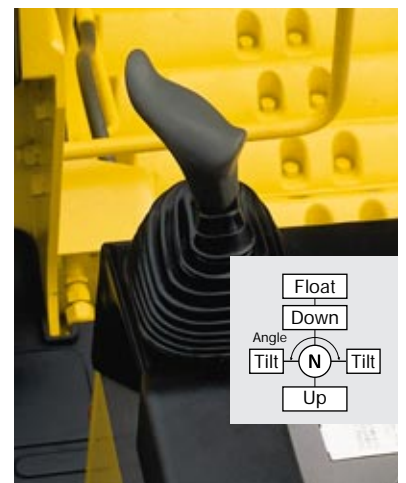
Easy-to-see instrument panel

Ergonomically arranged instruments make it easier to check the machine condition. In addition, fuel meter and dust indicator warning lights are installed on the panel for easier servicing.



Walk-through operator's compartment

The operator's compartment has a complete walk-through design for easier access and exit.



The right joystick controls all the blade functions including:

- Lifting/Digging
- Tilting
- Angling

VERSATILE OPERATION AND SUPERIOR PRODUCTIVITY

Efficient HYDROSHIFT transmission

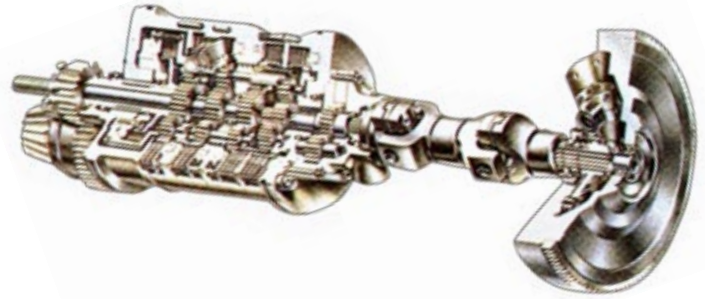
The D37-5 is equipped with Komatsu's unique HYDROSHIFT transmission, for smooth gear shifts, powerful traction and low fuel consumption.

The power train includes a damper and planetary type powershift transmission. HYDROSHIFT efficiently converts engine power to traction with minimal power loss through a direct-drive transmission. It offers smooth, easy shifting and good fuel efficiency.

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

Long track

The well positioned center of gravity provides good machine balance for grading and operation on slopes. In addition, the machine can travel over soft ground easily, and it can work productively in muddy areas.



Powerful, Fuel-Efficient, Clean Engine:

The Komatsu S4D102E engine is a fuel efficient, direct-injection turbocharged diesel.

Efficient fuel combustion improves consumption and lowers emission. Meets 1998 EPA emission standards.

Features high horsepower output and torque rise for strong pushing capability without lugging down.

SIMPLIFIED MAINTENANCE AND MAXIMUM DURABILITY, RELIABILITY

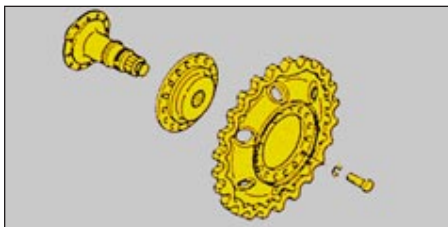
Simplified maintenance

Spin-on type filters are used throughout the machine, making it easy to replace filter elements.

Automatic fan belt tensioner eliminates troublesome belt adjustment.

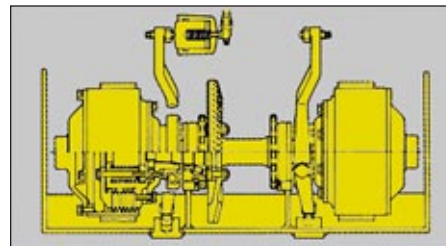
Radiator coolant reservoir

Makes it easier to check the coolant level and eliminates frequent refilling.



Bolt-on type sprocket

For easier replacement on the job-site when worn, and reduced down-time.



Wet type steering clutches and brakes

The D37-5 has interconnected, joystick-operated, wet steering clutches and brakes for long service life and reliability.

The self-adjusting steering clutches are multiple-disc type with Pressure Proportion Control (PPC) control, insuring light-touch lever movements. The brakes are wet contracting-band type that facilitate minimal lining replacements.

Lubricated track links

The clearance between the link pin and bushing is lubricated, wear and pitch elongation are minimized for extended service life. Power loss due to pin and bushing friction are reduced, increasing operation comfort and performance.

D37E-5/D37P-5 SPECIFICATIONS



ENGINE

Model.....Komatsu S4D102E-1
 Type4-cycle, water-cooled, direct injection
 AspirationTurbocharged
 No. of cylinders4
 Bore**4.02"** 102 mm
 Stroke**4.72"** 120 mm
 Piston Displacement**240 in³** 3.9 ltr.
 Gross Horsepower***79 HP** 59.0 kW @ **2500 RPM**
 Net Flywheel Horsepower****75 HP** 56.0 kW @ **2500 RPM**
 Net Maximum Torque**217 ft-lb** 294 Nm @ **1400 RPM**
 GovernorAll-speed, mechanical

*Per SAE J1995 conditions.

**Engine equipped with air cleaner, alternator (not charging), muffler and fan. (SAE J1349)



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).

D37E-5

Travel speed	Forward	Rated drawbar pull	Reverse
1st	1.4 MPH 2.3 km/h	17,680 lb 8020 kg	1.6 MPH 2.5 km/h
2nd	2.5 MPH 4.1 km/h	9,470 lb 4300 kg	2.8 MPH 4.5 km/h
3rd	4.3 MPH 6.9 km/h	5,150 lb 2340 kg	4.7 MPH 7.5 km/h

Max. drawbar pull.....**20,940 lb** 9500 kg

D37P-5

Travel speed	Forward	Rated drawbar pull	Reverse
1st	1.4 MPH 2.3 km/h	17,590 lb 7980 kg	1.6 MPH 2.5 km/h
2nd	2.5 MPH 4.1 km/h	9,390 lb 4260 kg	2.8 MPH 4.5 km/h
3rd	4.3 MPH 6.9 km/h	5,070 lb 2290 kg	4.7 MPH 7.5 km/h

Max. drawbar pull.....**20,830 lb** 9450 kg



STEERING

Single steering lever controls all direction movement. Wet, multiple-disc steering clutches are PPC controlled and interconnected with wet, contracting-band, steering brakes to allow easy, light-touch steering/braking actions. A PPC 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

SuspensionRigid type
 Track roller frameHigh-tensile-strength steel construction.
 Rollers and idlers.....Lubricated idlers, track and carrier rollers are sealed with floating seals.
 Track shoesSingle-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.

	D37E-5	D37P-5
No. of shoes	41	41
No. of track rollers	6	6
No. of carrier rollers	1	1
Track gauge	4'9" 1450 mm	5'5" 1650 mm
Grouser height	1.9" 47 mm	1.9" 47 mm
Shoe width (standard)	13.0" 330 mm	23.6" 600 mm
Ground contact area	2,235 in² 14420 cm ²	4,064 in² 26220 cm ²
Ground pressure (tractor)	5.6 PSI 0.39 kg/cm ²	3.4 PSI 0.24 kg/cm ²



COOLANT & LUBRICANT CAPACITY (refilling)

Coolant.....	5.8 U.S. gal	22 ltr.
Fuel tank.....	30.4 U.S. gal	115 ltr.
Engine.....	3.7 U.S. gal	14 ltr.
Damper case.....	0.4 U.S. gal	1.5 ltr.
Transmission.....	3.4 U.S. gal	13 ltr.
Bevel gear case/Steering clutch.....	12.4 U.S. gal	47 ltr.
Final drive (each side)		
(1450 mm track gauge).....	2.5 U.S. gal	9.5 ltr.
(1650 mm track gauge).....	3.2 U.S. gal	12 ltr.



OPERATING WEIGHT (approximate)

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

D37E-5**12,555 lb** 5675 kg

D37P-5**13,805 lb** 6240 kg

Operating weight, including power-angle-tiltdozer, operator, standard equipment, rated capacity of lubricant, coolant and full fuel tank, ROPS.

D37E-5**15,080 lb** 6855 kg

D37P-5**16,450 lb** 7477 kg



HYDRAULIC SYSTEM

Hydraulic control unit: Gear-type hydraulic pump mounted on rear of engine with capacity (discharge flow) of **25.2 U.S. gal/min** 95.5 ltr., at rated engine RPM.

Relief valve setting **2,490 PSI**, 175 kg/cm²

Control valves

- Three control valves for power-angle-tiltdozer
 - 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..... Raise, hold and lower

Hydraulic cylinders: Double-acting, piston type

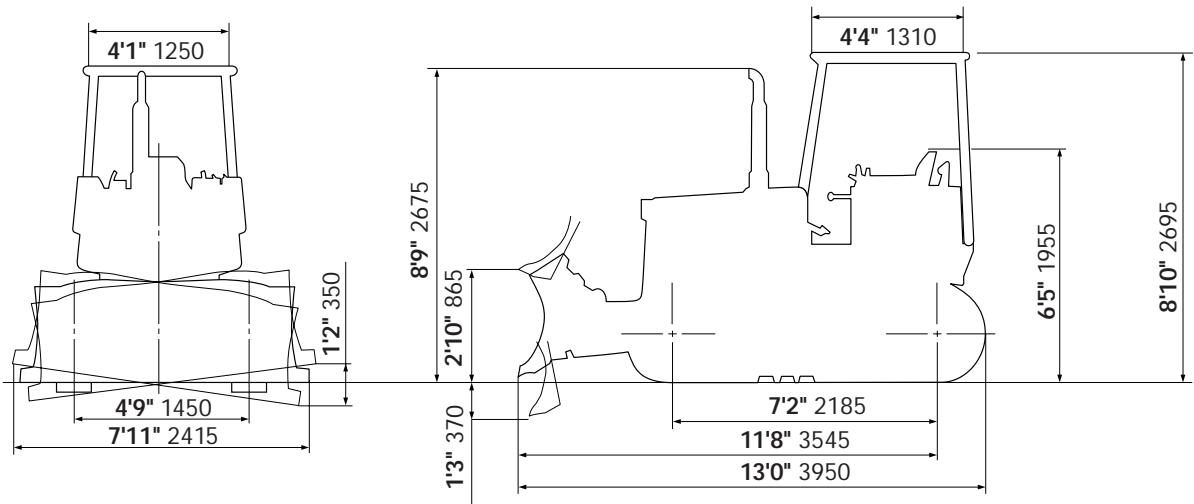
	Number of cylinders	Bore
Blade lift	2	3.54" 90 mm
Blade tilt	1	3.54" 90 mm
Blade angling	2	3.54" 90 mm



DIMENSIONS

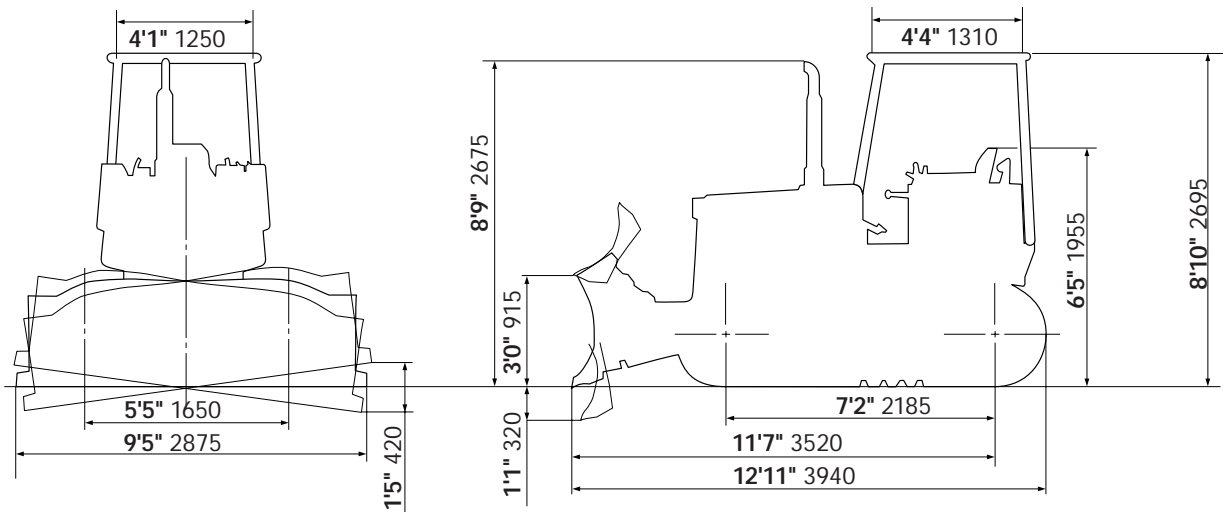
D37E-5 (equipped with power-angle-tilt dozer)

Unit: ft. in. mm



Ground Clearance1'0" 315

D37P-5 (equipped with power-angle-tilt dozer)



Ground Clearance1'2" 360



DOZER EQUIPMENT

Use of high-tensile-strength steel in moldboard for extended service life. Hydraulic hoses for blade angle and tilt are protected with steel plates.

	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
		SAE	*LH ²					Blade	Hydraulic control unit	
D37E-5	13'0" 3950 mm	1.95 yd ³ 1.49 m ³	2.79 yd ³ 2.13 m ³	7'11" x 3'1" 2415 mm x 940 mm	2'10" 865 mm	1'3" 370 mm	1'2" 350 mm	1,900 lb 860 kg	400 lb 180 kg	1.00 PSI/ 0.07 kg/cm ²
D37P-5	12'11" 3940 mm	2.11 yd ³ 1.62 m ³	3.00 yd ³ 2.30 m ³	9'5" x 2'11" 2875 mm x 895 mm	3'0" 915 mm	1'1" 320 mm	1'5" 420 mm	1,980 lb 900 kg	400 lb 180 kg	0.57 PSI/ 0.04 kg/cm ²

*(L: Blade length) x (H: Blade height)²

STANDARD EQUIPMENT FOR BASE MACHINE

Engine and Its Related Items:

- Air cleaner, dry, double element type with dust indicator
- Automatic deaeration for fuel line
- Decelerator pedal
- Engine, KOMATSU S4D102E-1, 75HP (56.0 kW), turbocharged, direct injection, diesel
- Exhaust pipe, curved
- Fan, blower
- Fuel hose, general purpose

Electric System:

- Alternator, 25 Ampere, (24V)
- Back-up alarm
- Batteries, 2 x 12V, 70AH
- Lights (2 front & 1 rear)

- Starting motor, 4.5 kW (24V)
- Wire harness, standard capacity

Power Train and Controls:

- Sprockets, one piece type
- Mono-lever steering with PPC
- Transmission, F3-R3

Undercarriage:

- Idler with recoil spring
- Track frames, 6 roller
- Track frame covers, standard (D37P-5)
- Track roller guards, end section
- Track shoe assembly, 13" (330 mm) (D37E-5), 23.6" (600 mm) (D37P-5), single grouser shoes with sealed and lubricated link assembly

Guards and Covers:

- Crankcase and transmission guards, pull hook installable
- Engine hood and side panels
- Fenders, standard type
- Final drive case wear guards
- Radiator guard door, single, bolt-on type
- Rear cover, standard type
- ROPS mounting brackets

Operator Environment:

- Seat, suspension type
- Seat belt

Hydraulics and Controls:

- For inside PAT dozer
- Blade cylinder hoses, standard type
- Mono-lever controls for blade

Vandalism Protection:

- Filler cap locks and cover locks

Other Standard Equipment:

- Marks and plates, English

**ROPS canopy or ROPS cab must be ordered for all machines.*

**Dozer assembly and rear mounted equipment are not included.*

OPTIONAL EQUIPMENT

- Fire extinguisher
- Front pull hook, for use with under guard
- Front sweeps
- Front, rear, and side screens
- Full length, segmented track roller guards
- Heater-defroster for cab
- Hitch
- Hydraulics for Ripper
- Instrument panel lock cover
- Power angle tilt dozer
- Radiator reservoir tank
- Radiator guard door, hinged, severe service
- Reversible cooling fan
- Swing type drawbar
- Tank guard

ROPS Cab*

Meets ISO 3471, SAE J1040a and SAE J365a standards. Includes: floor mat, front & rear wipers, and electric fan.

Additional weight (to tractor) **1,030 lb** 470 kg
 Additional ground pressure D37E **0.58 psi** 0.041 kg/cm²
 D37P **0.33 psi** 0.023 kg/cm²

ROPS Canopy*

Meets ISO 3471, SAE J1040a and SAE J395a standards.

Additional weight (to tractor) **505 lb** 230 kg
 Additional ground pressure D37E **0.36 psi** 0.025 kg/cm²
 D37P **0.20 psi** 0.014 kg/cm²

*Note: ROPS Cab or ROPS Canopy must be ordered for all machines.

Optional Ripper

Type	Multi-Shank
No. of Shanks	3 (5 shanks attachable)
Additional weight (to bare tractor)	970 lb 440 kg
Max. lift above ground	1'5" 440 mm
Max. digging depth	1'0" 310 mm
Digging Angle (degree)	50° (at 1' depth)
Beam length	5'0" 1529 mm
Additional length	2'7" 785 mm

Optional shoes

Model	D37E-5	D37P-5
Type of shoe	15.8" 400 mm single-grouser shoe	23.6" 600 mm circular arc shoe
*Additional weight	+198 lb +90 kg	+33 lb +15 kg
Ground contact area	2,709 in² 17480 cm ²	4,064 in² 26220 cm ²
*Additional ground pressure (tractor)	-0.85 PSI -0.06 kg/cm ²	±0
*Additional height	—	1" 20 mm

*Addition to tractor.

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.

KOMATSU

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