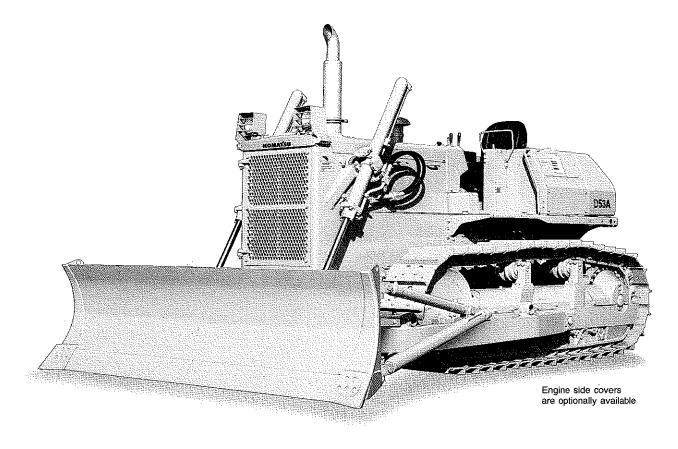
BUILDOZER

FLYWHEEL HORSEPOWER: **124 HP** 92 5 kW 1900 RPM OPERATING WEIGHT (TRACTOR): **10770 kg** 23,740 lb (ANGLEDOZER): **12800 kg** 28,220 lb

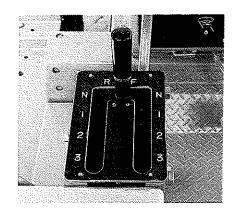


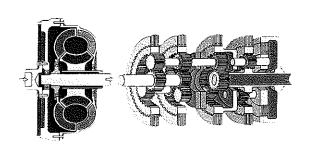
- Extended track length attains the D53A low ground pressure, high stability and powerful traction for precise leveling operation and high gradeability.
- Komatsu 6D125E diesel engine delivers a lugging 124 HP (92 5 kW). Direct-injection system for fuel savings and cleaner exhaust.
- TORQFLOW transmission not only assures smooth and responsive power shifting, but also makes it possible to take
 instant speed and directional changes by a single lever.
- Wet-type steering clutches and brakes for extended service life They are interconnected, enabling to perform quick lever-controlled steering actions.
- Floating seals in idlers and rollers keep dirt out and lubricant in for durable operation
- Lubricated track links extend track life.
- Floating type operator's compartment for low operating noise and vibration
- Simple maintenance is promoted through adoption of spin-on type fuel and full-flow filters, air cleaner with automatic dust evacuator and dust indicator, and others.
- Comfortable operator's seat is adjustable in fore/aft for best matched operator's stance

KOMATSU

Light-touch control systems increase operator comfort and productivity.

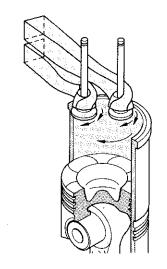
The D53A is equipped with Komatsu's TORQFLOW transmission, assuring smooth gear shifts and powerful traction. It consists of a 3-element, singlestage, single-phase torque converter and a hydraulicallyactuated planetary-gear transmission with multiple-disc clutch packs. This unique system assures light-touch, ultrasmooth gear-shifting through the 3 forward and 3 reverse gears to decrease operating fatigue. Forward/reverse directional changes are also made instantly.

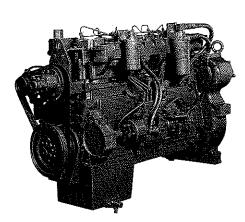


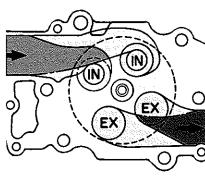


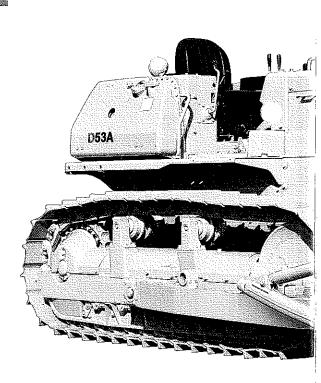
The Komatsu-built power train maximizes production while assuring excellent fuel economy.

The Komatsu 6D125E diesel engine delivers 124 HP at 1900 RPM. Two intake and two exhaust valves are provided on each cylinder. This four-valve design, plus a high-pressure, direct-injection fuel system and 3-piston rings assure reduced frictional loss and contribute to reduced fuel consumption. In addition, the large piston displacement ensures that the D53A can doze in the toughest operating conditions.



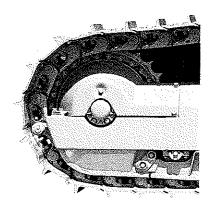






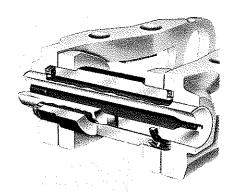
Designed for maximum durability, reliability and maintainability.

Since each component is produced under the world's strictest quality control, reliability and durability are assured. Maintainability is also a factor contributing to machine efficiency and economy, and the D53A offers you more.

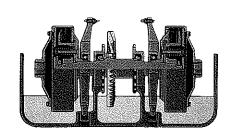


Segmented sprockets:

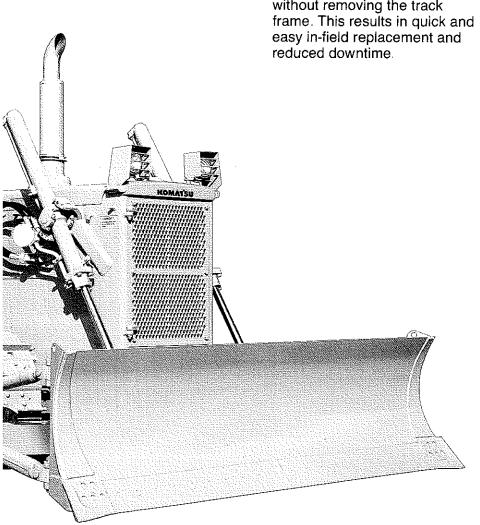
Sprockets are segmented into several pieces and installed on the sprocket hub. Therefore, a worn segment can be replaced without removing the track frame. This results in quick and easy in-field replacement and reduced downtime.

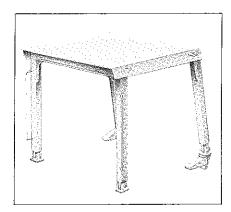


Lubricated track links: Since the clearance between the link pin and bushing is lubricated, wear and pitch elongation are minimized for extended service life. With lubricated track, power loss due to friction of pin and bushing is reduced, increasing operating comfort and performance. Split master links are also provided to facilitate easy track assembly and disassembly.



Wet type steering clutches and brakes: The D53A has interconnected, lever-operated, wet steering clutches and brakes for long service life and reliability. The self-adjusting steering clutches are multipledisc type with a hydraulic booster, insuring light-touch lever movements, while the brakes are the contracting-band type that facilitate easy lining replacement.





ROPS CANOPY

Meets ISO 3471, SAE J1040a and SAE J395a ROPS standards

Additional weight 785 kg (1 730 lb)

 ROPS cab Additional weight

1050 kg (2 320 lb)

 Head guard Additional weight

270 kg (600 lb)

CANOPY

Additional weight 90 kg (200 lb)

ANGLE-RAKEDOZER

Overall length (with dozer equipment) 5025 mm (16.6°) Additional weight (including hydraulic control unit and counterweight)

3020 kg (6 660 lb)

775 mm

Dozer length x height 3460 mm x 1595 mm (11 4' x 5 3')

No. of rakes Max. lift above ground

850 mm (2'9") Max drop below ground

(2.7')

MULTISHANK RIPPER

Rigid. hydraulically controlled parallelogram-type ripper with 3 shanks. Digging angle adjustable in 2 stages

Digging depth adjustable in 3 stages

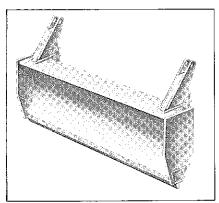
Additional weight (including hydraulic con-1700 kg (3 750 lb)

trol unit and 3 shanks)

1755 mm (5'9") Beam length

Max. lift above ground. 525 mm (1'9")

565 mm (1 10) Max. digging depth



TRIMMINGDOZER

With hydraulic cylinders that swing back and forth. Useful for scraping coal and ore

in ship holds Additional weight

2170 kg (4 780 lb)

Blade dimensions:

2890 mm x 930 mm Length x height

 $(9.6^{\circ} \times 3.1^{\circ})$

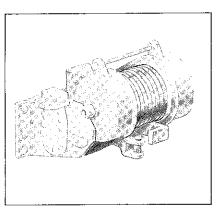
Max lift above ground 1690 mm (57)

Max drop below ground

730 mm (2.5%)

Additional ground pressure . . 0.10 kg/cm²

(1 42 PSI/9.8 kPa)



TOWING WINCH

Single-drum reversible, Туре gear-driven 1030 kg (2.270 lb) Additional weight Cable dia x length 20 mm x 50 m (0.79° x 164)

Line pull:

18800 kg Bare drum

(41 450 lb/184 kN) Full drum 9700 kg

(21,380 lb/95 kN)

OPTIONAL SHOES:

	Additional weight kg (lb)	Ground contact area cm²(sq.in)	Additional ground pressure kg/cm ² (PSI/kPa)		
400 mm (15,7") single- grouser shoe	-122 (-269)	18920 (2.933)	+0.07 (1 00/6 9)		
510 mm (20.1") single- grouser shoe	+100 (+220)	24120 (3 _. 739)	-0.04 (0 57/3.9)		
460 mm (18,7") single- grouser shoe with holes	−60 (· 132)	21760 (3,373)	0		
460 mm (18.1") triple- grouser shoe with holes	+29 (+64)	21760 (3 373)	o		

This specification sheet may contain attachment 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 notice.



D53A SPECIFICATIONS



ENGINE

Komatsu 6D125E, 4-cycle, water-cooled diesel engine. 6 cylinders of 125 mm (4.92") bore x 150 mm (5.91") sroke and 11.04 ltr. (674 cu.in) piston displacement.



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 actuated and force-lubricated for optimum heat dissipation. Allows single-lever control of all speeds (3 forward and 3 reverse) and directional changes. Gearshift lock lever and neutral safety switch prevent the machine from accidental starts.

ravel spee	eds					km/	'n(N	1PH)	
Gear				Fo	rwa	rd		Reverse	
1st				0 - 3	.2 (:	2.0)		0-3.9 (2.4)	
2nd				0-5	9 (3.7)		0-7.1 (4.4)	
3rd				0-9	.8 (0	3.1)		0-119 (7.4)	
×kN	×10³lb	×10³kg							
	60⊦ ³	30	TT				ПТ	1	
					<u>i</u>]	
	İ	\longrightarrow						-	
ا ــــا		A + A + A + A + A + A + A + A + A + A +	-	\rightarrow			-	-	
⋽ ²⁰⁰ -	40 2	0 \ F1		-+					
<u>~</u>			H .			-+-		1	
BA									
]	
DRAWBAR PULL	20-1				\perp				
E3 1	201	- 1 1 1 1 1	(1 1		- 1 - 1	- 1	I I		

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

TRAVEL SPEED



STEERING

Wet, multiple-disc type steering clutches are hand-operated, spring applied and hydraulically boosted for reduced control efforts. Self-adjusting type for minimized maintenance.

Wet, contracting-band type steering brakes are foot-operated and are hydraulically boosted for reduced control effort. Steering clutches and brakes are interconnected with linkages, allowing the operator to make responsive steering actions with the steering levers. Even when steering resistance is large, combined actuation of a lever and a brake pedal make steering easy.

Min. turning radius, tractor 2 9 m (9'6")



FINAL DRIVE

Spur gear, double-reduction final drive minimizes harmful ground shocks transmitted to the internal power-train components. Segmented sprocket rims are bolt-on type for easy on-field replacement.



UNDERCARRIAGE

Suspension	 Oscillating type equalizer bar
Track roller frame	Box-section, high tensile-
	strength steel construction
	for maximum rigidity

Rollers and idlers

Lubricated idlers, track and carrier rollers are sealed with floating seals. Segmented type track roller guards on each side protect track roller from damage caused by external obstacles

Obstacles		
Number of carrier rollers, each side	 1 1 . 1 .	2
Number of track rollers, each side	 	6
Track shoes		

Assembled single-grouser shoes. Lubricated track links Dust seals prevent entry of foreign abrasives from entering into pin-to-bushing clearance for extended track service life Track tension is easily adjusted with grease gun.

tension is easily adjusted with grease guil.	
Number of shoes, each side	1
Grouser height 50 mm (2 0"	')
Shoe width, standard	')
Ground contact area, standard shoe	2
(2.272 :-	

Ground pressure, standard shoe 0.49 kg/cm² (7.00 PSt/48.1 kPa)



COOLANT & LUBRICANT CAPACITY (refilling)

	Liters	U.S. gallon
Coolant	52	13.7
Fuel tank	250	66 1
Engine	26	6.9
Damper case	1.3	03
Torque converter, transmission	34	90
Bevel gear case, steering case	58	15.3
Final drive, each side	13	3 4
Hydraulic oil	65	17.2



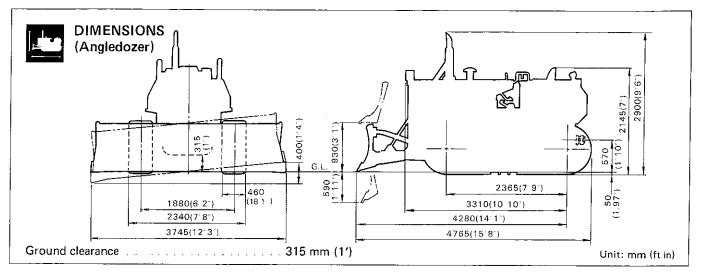
MPH

OPERATING WEIGHT (approximate)

Tractor weight, including rated capacity of lubricant, coolant, full fuel tank, optional hitch and standard equipment 10770 kg (23,740 lb)

STANDARD EQUIPMENT

TOROFLOW transmission. 24 V, 35 A alternator. 24 V, 7.5 kW starter motor. Blower fan. Wet-type steering clutches and brakes. In-line radiator. Dry-type air cleaner with automatic dust evacuator and dust indicator. Hydraulic track adjusters 460 mm (18.1") single-grouser shoe, Iubricated tracks. 24 V (12 V x 2)/150 Ah batteries, 6-roller track frames. Segmented track roller guards Lighting system (incl two front and one rear lights). Segmented sprockets. Lower guards (3 pieces). Oil-suspension seat.

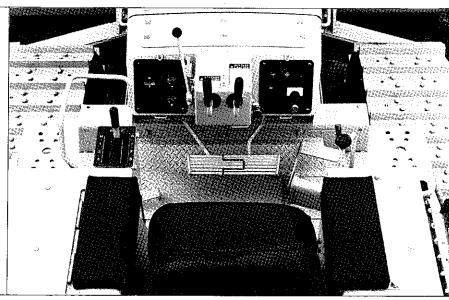




CONTROLS

Comfortable operation is assured by human-engineered arrangement of control levers, pedals, instruments and operator seat Walk-through operator compartment makes getting on/off easy Employment of suspended type pedals eliminates gap to the floor, reducing noise leakage. Color-coded meters and gauges with universal symbols assure quick reading.

Dust indicator on the instrument panel allows the operator to check the aircleaner clogging conditions without leaving his seat. Padded operator seat is fore/aft adjustable.





HYDRAULIC SYSTEM

Hydraulic control unit

All spool-type control valves housed into the hydraulic tank Gear-type pumps with output 181 ltr (47.8 U.S. gal)/min. at rated RPM.

Relief valve setting . . . 140 kg/cm² (2000 PSI/13 7 MPa) Hydraulic tank capacity 87 ltr. (23.0 U.S. gal) Control valves

One control valve for angledozer or straightdozer

Positions: Lift cylinders ... Raise, hold, lower and float

Two control valves for straight-tiltdozer.

Positions: Lift cylinders . . . Raise, hold, lower and float Tilt cylinder Right, hold and left

• Additional control valve for ripper

	Number of cylinders	Bore mm (in.)		
Lift cylinders	2	90 (3.54)		
Tilt cylinder	1	160 (6.30)		
Ripper cylinder	1	160 (6.30)		



DOZER EQUIPMENT

Four types of dozer equipment are available to meet specific job requirements. Use of high-tensile-strength steel in moldboard for strengthened blade construction. Hydraulic pipings for blade tilting are housed inside the dozer frame and protected from damage

	Overali	Blade	Max. (ift	Max. drop	Marin atta	Additional weight		Additional		
	length with dozer	length x height	above below	below	1		Max. tilt adjustment	Dozer equipment	Hydraulic control unit	ground pressure
Angledozer	4765 mm	3745 mm x 875 mm	930 mm	590 mm	400 mm	1680 kg	360 kg	0.1 kg/cm ²		
	(15'8'')	(12'3" x 2'10")	(3'1")	(1'11'')	(1'4")	(3,700 lb)	(790 lb)	(1.4 PSI/9.8 kPa)		
Strengthened angledozer	4770 mm	3745 mm x 875 mm	930 mm	590 mm	400 mm	1740 kg	360 kg	0.1 kg/cm ²		
	(15′8″)	(12'3" x 2'10")	(3'1")	(1'11")	(1'4")	(3,840 lb)	(790 lb)	(1.4 PSI/9.8 kPa)		
Straightdozer	4640 mm	3185 mm x 955 mm	935 mm	550 mm	400 mm	1530 kg	360 kg	0.1 kg/cm ²		
	(15'3")	(10'5" x 3'2")	(3'1")	(1'10")	(1'4")	(3,370 lb)	(790 lb)	(1.4 PSI/9.8 kPa)		
Straight-	4640 mm	3185 mm x 970 mm	935 mm	550 mm	680 mm	1580 kg	370 kg	0.1 kg/cm ²		
tiltdozer	(15′3′′)	(10'5" x 3'2")	(3'1")	(1'10")	(2'3")	(3,480 lb)	(820 lb)	(1.4 PSI/9.8 kPa)		