



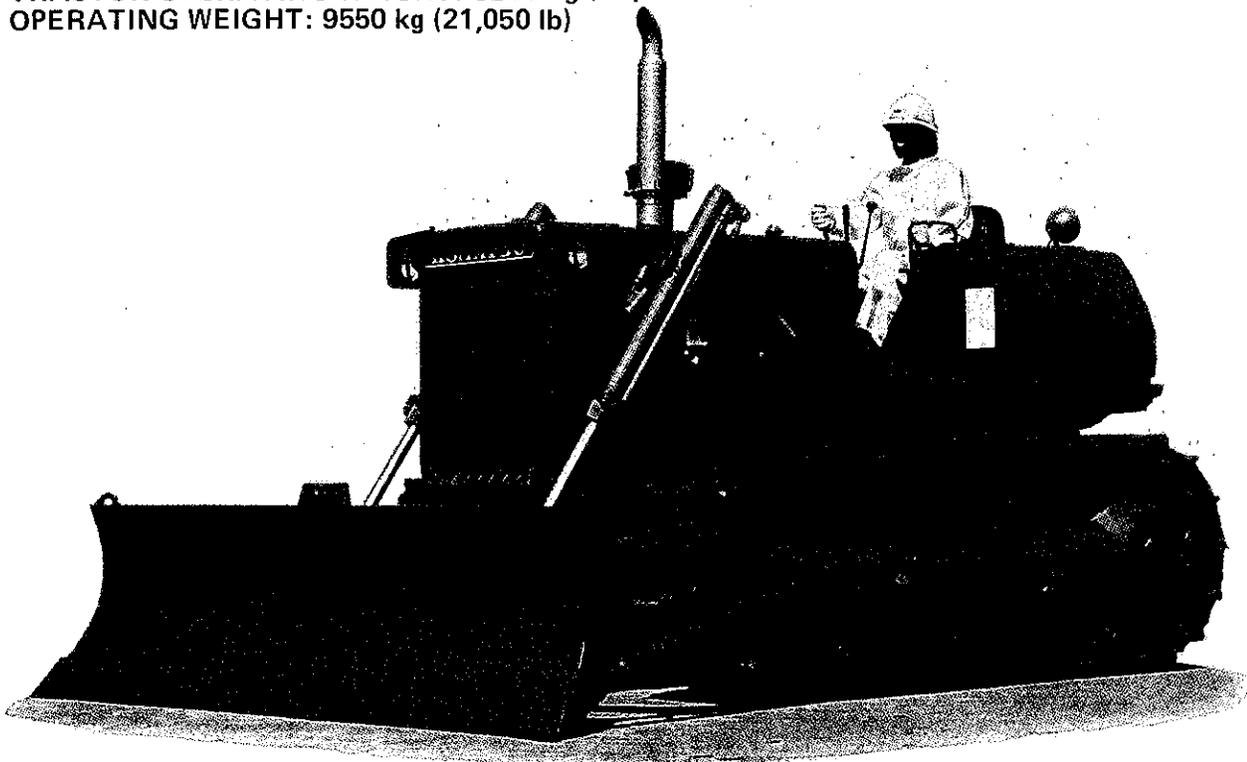
KOMATSU
Shaping the world of tomorrow

D45A

BULLDOZER

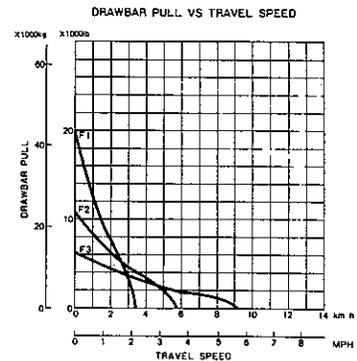
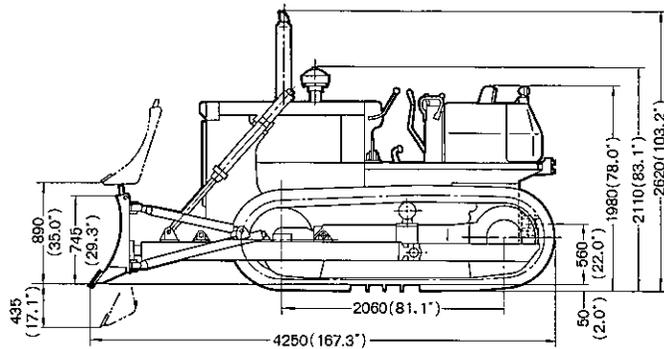
TORQFLOW

FLYWHEEL HORSEPOWER: 90 HP/2400 RPM
TRACTOR OPERATING WEIGHT: 8210 kg (18,100 lb)
OPERATING WEIGHT: 9550 kg (21,050 lb)



- Powerful turbocharged diesel engine matching large blade capacity. With sizable reserve power even at high altitudes up to 2300 m (7,500 ft) without fuel-injection adjustment.
- Big blade capacity and machine stability with large ground track length and sufficient track gauge.
- Easy operation with KOMATSU TORQFLOW and one-lever control of desired traveling speed/direction, hydraulic booster with maintenance-free wet-type steering clutches and brakes for reduced operator fatigue, and decelerator pedal for smooth, positive speed reduction.
- Operator comfort with adjustable seat and low-noise machine performance.
- Floating seals in track and carrier rollers and idlers keep dirt out and lubricant in for reduced maintenance cost, as well as extended undercarriage life.
- Unique KOMATSU dust seals between track links and pins prevent abrasive dirt or mud from entering pin-to-bushing clearances and lengthening link pitch for longer track service.
- Very dependable hydraulic system with all components concentrated and mounted at the rear of the engine, and a more reliable power line with a damper provided between the engine and torque converter to absorb vibrations and load impacts and a dual-stage final-drive reduction system with large reduction ratio.
- Compactness for easy transportation on a 10-ton truck.
- Availability of many attachments and parts interchangeable with those in other KOMATSU bulldozers.

D45A SPECIFICATIONS



TRACTOR ENGINE:

Model KOMATSU S4D105
 Type Water-cooled, 4-cycle, overhead valve, direct-injection, turbocharged diesel
 No. of cylinders—bore x stroke 4—105 mm x 115 mm (4.13" x 4.53")
 Piston displacement 3980 cc (243 cu.in.)
Performance:
 Flywheel horsepower 90 HP/2400 RPM
 Max. torque 32 kg.m (232 ft.lb)/1400 RPM
 Fuel consumption ratio 185 g (0.41 lb)/HP.h
Fuel system:
 Fuel oil Diesel gas oil, ASTM Specification D975-60T, No. 2D
Governor Mechanical, all-speed control
Lubrication system:
 Lubrication method Gear pump, forced lubrication
 Filter Full-flow type
 Oil cooler Water-cooled
Cooling system Forced circulation by centrifugal water pump, pusher-type fan
Air cleaner Dry type with precleaner
Starting method By electric starting motor
 Starting motor 24 V, 5.2 KW
 Alternator 24 V, 13 A
 Battery 24 V (12 V x 2)—120 Ah

PERFORMANCE:

Travel speed and rated drawbar pull (see chart)

		Travel speed
Forward	1st	0 ~ 3.4 km/h (2.1 MPH)
	2nd	0 ~ 5.7 km/h (3.5 MPH)
	3rd	0 ~ 9.2 km/h (5.8 MPH)
Reverse	1st	0 ~ 4.1 km/h (2.5 MPH)
	2nd	0 ~ 7.0 km/h (4.3 MPH)
	3rd	0 ~ 11.1 km/h (6.9 MPH)
Gradeability		0 ~ 30°

POWER TRANSMITTING SYSTEM:

Torque converter 3-element, single-stage, single-phase
 Cooling method Water-cooled
Transmission:
 Type Planetary gear and multiple disc clutch hydraulically actuated, forced lubrication
 Gearshift 3 forward and 3 reverse speeds
 Bevel gear Spiral bevel gear
Steering system:
 Steering clutch Wet, multiple disc, spring-loaded, hand operated, with hydraulic booster
 Steering brake Wet, contracting band, hand- and foot-operated, interconnected with steering clutch
 Final drive Spur gear, double reduction

UNDERCARRIAGE:

Suspension Oscillation type, equalizer bar
 No. of carrier rollers 1 (each side)
 No. of track rollers 5 (each side)
Shoe:
 Type Assembled, single grouser
 Grouser height 50 mm (2")
 No. of shoes 37 (each side)
 Pitch 175 mm (6.9")
 Width 400 mm (15.7")

DIMENSIONS:

Overall length 3290 mm (129.5")
 Overall width 1940 mm (76.4")
 Overall height 2620 mm (103.2")
 Track gauge 1540 mm (60.6")
 Length of track on ground 2060 mm (81.1")
 Ground contact area 16480 cm² (2554 sq.in.)
 Ground pressure 0.50 kg/cm² (7.11 PSI)
 Ground clearance 360 mm (14.2")

HITCH (Optional):

Type Pin, fixed
 Height of hitch above ground 560 mm (22.0")

POWER TAKE-OFF:

Location Top of torque converter case
 Shaft revolutions and rotation direction 1490 RPM, counterclockwise (as viewed from driver's side)

CAPACITY:

Cooling water 35 ltr (9.2 U.S. Gal)
 Fuel tank 210 ltr (55.5 U.S. Gal)
 Engine 18 ltr (4.8 U.S. Gal)
 Damper case 1.4 ltr (0.4 U.S. Gal)
 Torque converter }
 Transmission } 25 ltr (6.6 U.S. Gal)
 Bevel gear case }
 Steering system } 45 ltr (11.9 U.S. Gal)
 Final drive case (each side) 12 ltr (3.2 U.S. Gal)

OPERATING WEIGHT

8210 kg (18,100 lb)
 (Dimensions and operating weight include hitch)

ANGLED ODOZER EQUIPMENT

DIMENSIONS:

Overall length 4250 mm (167.3")
 Overall width 3150 mm (124.0")
 Ground pressure 0.58 kg/cm² (8.25 PSI)

BLADE EQUIPMENT:

Type Manual angling and tilting
 Weight 1200 kg (2,650 lb) including cylinders and cylinder supports
 Length 3150 mm (124.0")
 Height 746 mm (29.4")
 Digging angle 55°
 Max. lift above ground 890 mm (35.0")
 Max. drop below ground 435 mm (17.1")
 Max. tilting adjustment 460 mm (18.1")

HYDRAULIC CONTROL UNIT:

Weight 140 kg (310 lb)
 Max. oil pressure 155 kg/cm² (2,200 PSI)
Hydraulic pump:
 Type Gear pump
 Capacity (discharge flow) 140 ltr (37 U.S. Gal)/min at engine 2400 RPM
 Location Rear of engine

Control valve:

Type Spool type
 Position Raise, hold, lower, float

Hydraulic oil tank:

Type Equipped with built-in control valve
 Location Rear of engine top
 Filter Full-flow type
 Hydraulic oil 32 ltr (8.5 U.S. Gal)

OPERATING WEIGHT

9550 kg (21,050 lb)

STANDARD EQUIPMENT

- Oil type main clutch
- 400 mm (15.7") single grouser shoes
- Mono cast sprockets
- 5-roller track frames
- Dry-type air cleaner
- 24 volt electric starting motor
- 300 W alternator
- Lower guard (2 pieces)
- Segmented type track roller guard
- Lighting system (including 2-front and 1-rear lights)
- Tool kit and ordinary spare parts

Dimensions and operating weight include hitch.
 Specifications are subject to change without notice.

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