

D135A-1

CRAWLER DOZER



Model shown may include optional equipment

KOMATSU: The Quality is Standard.

FLYWHEEL HORSEPOWER: 212 kW (285 HP) @ 2000 RPM. OPERATING WT: 36630 kg (80,753 lb)
BLADE CAPACITY: 6.9 m³-10.7 m³ (9.0 yd³-14.0 yd³)

Outstanding productivity and efficiency

- Low center of gravity provides excellent stability and powerful traction.
- The Komatsu SA6D125 engine delivers maximum fuel efficiency.
- Large capacity blade boosts productivity and efficiency.

Minimum downtime

- Advanced monitoring system helps prevent minor problems from becoming major ones.
- Tilt back ROPS cab for easy component access.
- Komatsu-built components extend service life and endurance.

Operator comfort

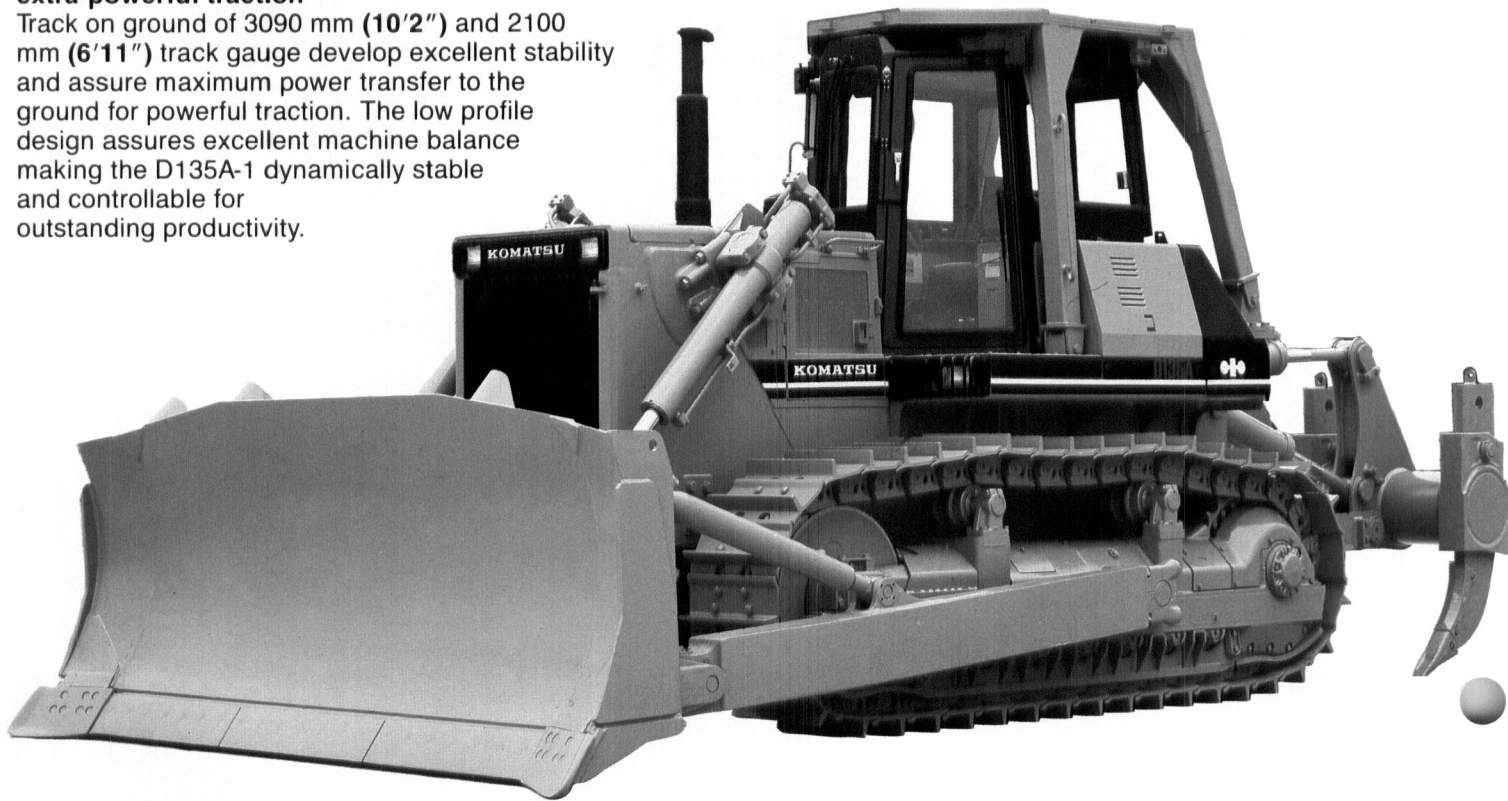
- Large glass area provides excellent view of blade edge, ripper shank and work area.
- Efficient arrangement of levers, pedals and instruments reduce operator fatigue.

Komatsu D135A-1 Bulldozer Designed for Maximum Production and Economy

Outstanding Productivity

Low center of gravity and high stability mean extra-powerful traction

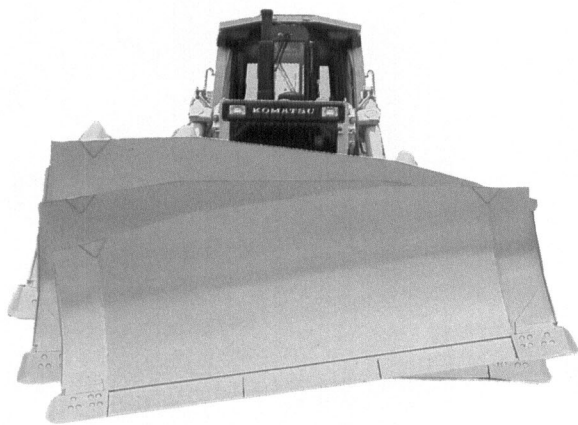
Track on ground of 3090 mm (10'2") and 2100 mm (6'11") track gauge develop excellent stability and assure maximum power transfer to the ground for powerful traction. The low profile design assures excellent machine balance making the D135A-1 dynamically stable and controllable for outstanding productivity.



Excellent Fuel Economy

The Komatsu SA6D125 engine provides maximum fuel economy

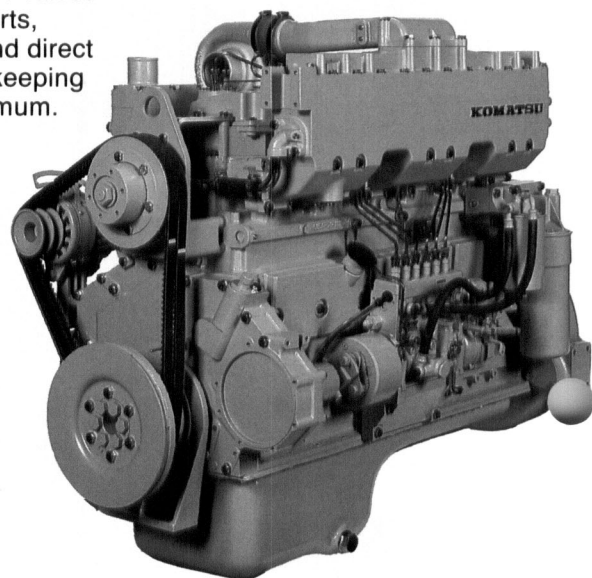
Its advanced fuel-efficient design makes the SA6D125 one of today's most economical, energy-saving engines. Features such as 4 valves per cylinder, swirl intake ports, roller type cam followers and direct injection all work together keeping fuel consumption at a minimum.



Superior blade and ripper performance

A large blade capacity of 10.7m³ (14.0 yd³) means increased production. High tensile strength steel at the front and side of the blade increases durability. All blade tilt hoses and piping are mounted inside the dozer push arm for added protection and reduced downtime.

Ripping is made easy with excellent digging performance and great penetration forces.

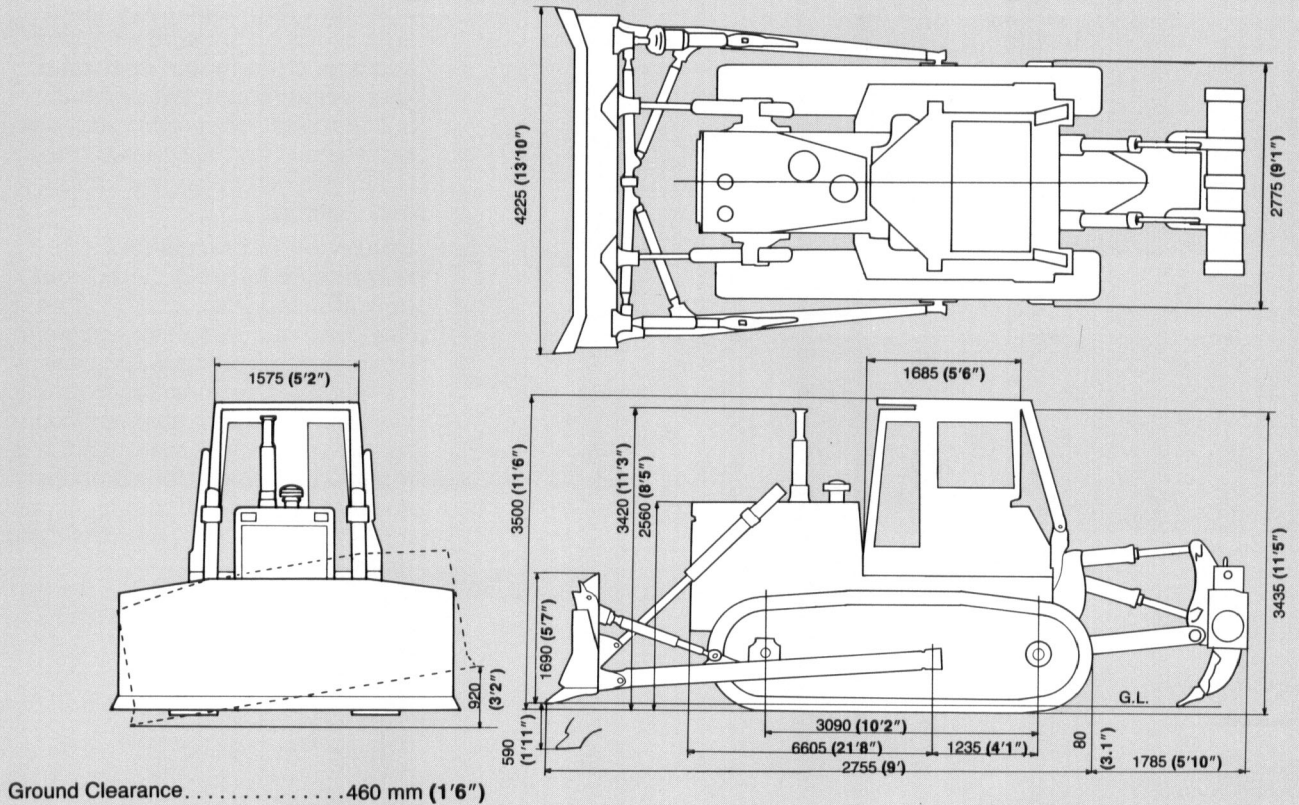




DIMENSIONS

Unit: mm (ft.in)

(Equipped with low profile ROPS and cab, U-dozer and multishank ripper. See table below for dimensions with optional blades.)



HYDRAULIC SYSTEM

Hydraulic control unit: Dual element gear-type pump with a combined capacity (discharge flow) of 239 ltr. (63 U.S. gal)/min. at rated engine RPM.

Relief valve setting 195 kg/cm² (2,773 psi)

Control valves:

- One control valve for angledozer.
Positions: Blade lift Raise, hold, lower and float
- Two control valves for straight-tilt dozer, semi U-dozer and U-dozer
Positions: Blade lift Raise, hold, lower and float
Blade tilt Left, hold and right
- Additional control valve required for ripper
Positions: Ripper lift Raise, hold, and lower
Ripper tilt tilt, hold and tilt back

Hydraulic cylinders: Double-acting, piston type

	Number of cylinders	Bore
Blade lift	2	130 mm (51.2")
Blade tilt	1	180 mm (7.09")
Ripper lift	2	160 mm (6.30")
Ripper tilt	2	150 mm (5.90")

Hydraulic capacity:

- Straight-tilt dozer,
- Semi U-dozer and U-dozer 135 ltr. (35.7 U.S. gal)
- Angledozer 129 ltr. (34.0 U.S. gal)
- Ripper equipment
(Additional volume) 34 ltr. (9.0 U.S. gal)



DOZER EQUIPMENT

Use of high tensile-strength steel in mold board and unitized construction of the back plate for extended service. Blade tilt hoses and piping are mounted inside the dozer frame and protected from damage.

	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
							Dozer equipment	Hydraulic control unit	
Straight-tilt dozer	6190 mm (20'4")	6.9 m ³ (9.0 yd ³)	4130 mm x 1490 mm (13'7" x 4'11")	1250 mm (4'1")	590 mm (1'11")	900 mm (2'11")	5390 kg (11,883 lb)	520 kg (1,146 lb)	0.17 kg/m ² (2.42 psi)
Semi-U-dozer	6190 mm (20'4")	8.4 m ³ (11.0 yd ³)	4130 mm x 1690 mm (13'7" x 5'7")	1250 mm (4'1")	590 mm (1'11")	900 mm (2'11")	5440 kg (11,993 lb)	520 kg (1,146 lb)	0.17 kg/m ² (2.42 psi)
U-dozer**	6605 mm (21'8")	10.7 m ³ (14.0 yd ³)	4225 mm x 1690 mm (13'10" x 5'7")	1250 mm (4'1")	590 mm (1'11")	920 mm (3'2")	6180 kg (13,624 lb)	520 kg (1,146 lb)	0.19 kg/m ² (2.70 psi)
Angledozer 25°	6475 mm (21'3")	7.0 m ³ (9.3 yd ³)	4850 mm x 1175 mm (15'11" x 3'10")	1415 mm (4'8")	610 mm (2')	520 mm (1'8")	5850 kg (12,900 lb)	520 kg (1,146 lb)	0.17 kg/m ² (2.42 psi)

*Blade capacities are based on SAE recommended practice J1265.

**Counterweight recommended.

Operator Comfort

Large cab window provide panoramic view

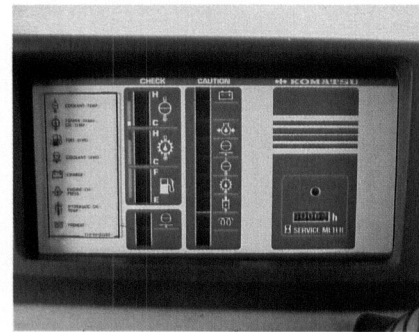
The cab design and large glass area provide a wide visual range. In addition to the rubber cushioned floor frame mount, the cab has built-in sound-absorbing urethane foam and is entirely sealed, resulting in minimal noise and vibration disturbances.

Convenient controls and responsive hydraulics reduce operator fatigue

The seat rotates 15° for optimum visual range, and to reduce operator fatigue. The sensitive hydraulic system provides simple fine control for precise dozing operations. A demand valve proportions blade oil flow between the lift and tilt circuits for efficient precise control with no time lag.

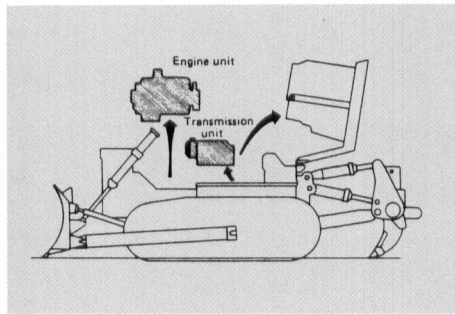


Minimum Downtime



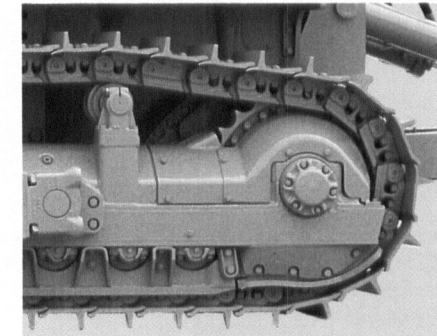
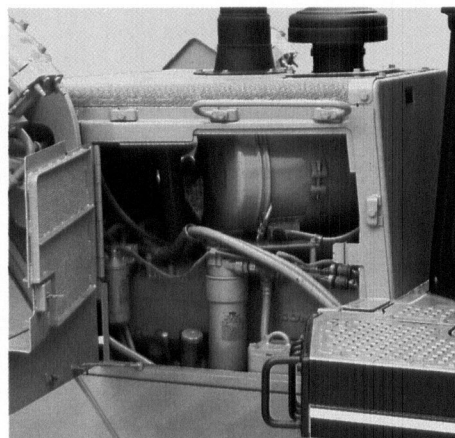
Advanced electronic display panel prevents minor problems from becoming major ones

Minor problems don't develop into serious breakdowns because all check-before-starting items and operating warnings are clearly displayed on the liquid crystal monitoring panel. As a result, the operator can concentrate on the controls while the monitoring system constantly checks and informs him of the machine's condition.



ROPS cab tilts back for easy access

Since the floor frame and ROPS cab can be tilted back, mounting and dismantling power-train components is fast and efficient.



Bolt-on sprocket segments reduce downtime

Since the bolt-on segments can be easily replaced in the field downtime is minimized.

Grouped maintenance stations reduce service times

Access doors provide easy entry to all maintenance points. Filters and grease points are grouped together for fast easy servicing.

SPECIFICATIONS



ENGINE

Komatsu SA6D125, 4-cycle, water-cooled, turbocharged diesel engine with aftercooler. 6 cylinders of 125 mm (4.92") bore x 150 mm (5.91") stroke provide 11.04 ltr. (674 in³) piston displacement.

Flywheel horsepower:

285 HP (212 kW) at 2000 RPM (SAE J1349)

Max. torque: 126 kg-m (911 ft-lb) at 1400 RPM.

Direct-injection fuel system with mechanical all-speed governor. Gear-pump-driven force-lubrication with full-flow filter. Dry-type air cleaner with automatic dust evacuator for longer element service and dust indicator for simplified maintenance. 24 V/7.5 kW electrical starting motor. 24 V/50 A alternator. 2 x 12 V/170 Ah batteries. No fuel injection adjustment required up to altitudes of 3000 m (9,840 ft) to keep up with rated engine output.

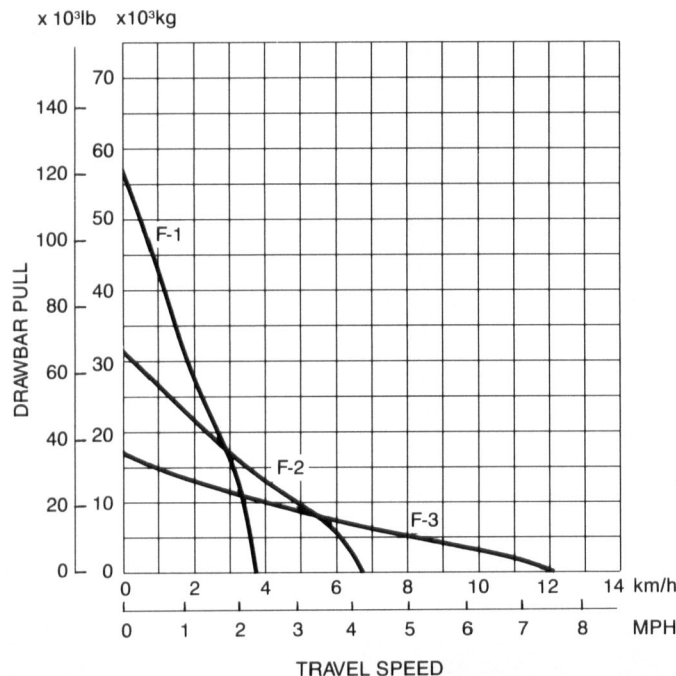


TORQFLOW TRANSMISSION

Komatsu's unique TORQFLOW transmission consists of water-cooled, 3-element, 1-stage, 1-phase torque converter and a planetary-gear, multiple-disc clutch transmission both of which are hydraulically actuated and force-lubricated for optimum heat dissipation. It allows single-lever control of all speed (3 forward and 3 reverse) and directional changes. Gearshift lock lever and neutral safety switch prevent the machine from accidental starts.

Travel speeds km/h (MPH)

	Forward	Reverse
1st	0— 3.7 km/h (2.3 MPH)	0— 4.4 km/h (2.8 MPH)
2nd	0— 6.7 km/h (4.2 MPH)	0— 8.1 km/h (5.1 MPH)
3rd	0—12.0 km/h (7.6 MPH)	0—14.2 km/h (8.9 MPH)



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



STEERING

Lever-controlled, wet, multiple-disc steering clutches are hydraulically boosted and hand operated. Wet, contracting band, foot operated steering brakes allow easy light touch steering/braking actions. Steering clutches and brakes are interconnected.



FINAL DRIVE

Spur gear, double-reduction final drives minimize transfer of shocks to power train components. Segmented sprockets are installed on the hub with bolts for easy in-field replacement.



UNDERCARRIAGE

Suspension Oscillation-type equalizer bar
Track roller frame Box-section, high-tensile-strength steel construction.
Rollers and idlers Lubricated idlers, track and carrier rollers are sealed with floating seals.
Number of track rollers 7 each
Number of carrier rollers 2 each
Sealed and lubricated track Assembled single grouser shoes. Unique dust seals prevent entry of dust into pin-to-bushing clearances for extended service. Track tension is easily adjusted with grease gun.
Number of shoes (each side) 40
Grouser height 80 mm (3.15")
Shoe width (standard) 610 mm (24")
Ground contact area 37696 cm² (5,843 in²)
Ground pressure (tractor) 0.66 kg/cm² (8.0 psi)



SERVICE REFILL CAPACITIES

Coolant 90 ltr. (23.8 U.S. gal)
Fuel tank 480 ltr. (126.8 U.S. gal)
Engine 24 ltr. (6.3 U.S. gal)
Torque converter, transmission, bevel gear case, steering case 111 ltr. (29.3 U.S. gal)
Final drive (each side) 42 ltr. (11.1 U.S. gal)
Undercarriage (each side) 26 ltr. (6.9 U.S. gal)



OPERATING WEIGHT (approximate)

Operating weight, including U-dozer, operator, standard equipment, rated capacity of lubricant coolant, full fuel tank, low profile ROPS and cab and multishank ripper 36630 kg (80,753)

STANDARD EQUIPMENT

- Hydraulic track adjusters
- 24 V/50 A alternator
- Back-up alarm
- 2 x 12 V/170 Ah batteries
- Cooling fan, blower type
- Crankcase guard
- Decelerator pedal
- Dry-type air cleaner with precleaner
- Electronic display/monitoring system
- Final drive case wear guard

- 7 roller track frames
- Hinged 1-piece radiator guard
- Lever steering
- Lighting system (including 1 rear and 4 front lights)
- Lower guard with front pull hook
- Power train guards (3 piece)
- Radiator, in line core
- ROPS brackets

- Segmented sprockets
- 610 mm (24") single-grouser shoe, sealed and lubricated
- 24 V/7.5 kW electric starter
- Suspension seat with seat belt
- TORQFLOW transmission
- Track-roller guards
- Wet-type steering clutches and brakes

ATTACHMENTS AND OPTIONAL EQUIPMENT

ROPS CANOPY: Meets ISO 3471, SAE J1040a and SAE J395a ROPS standards.

Weight 1390 kg (3,064 lb)

Roof Dimensions

Length 1715 mm (5'8")

Width 1663 mm (5'5")

Height from compartment floor
. 1740 mm (5'9")

Ground pressure

. 0.04 kg/cm² (0.57 psi)

STEEL CAB: Includes floor mat, inside rear view mirror, and wipers (front, rear, left and right door).

Weight 460 kg (1,014 lb)

Dimensions

Length 1685 mm (5'6")

Width 1575 mm (5'2")

Height from compartment floor
. 1670 mm (5'6")

Ground pressure

. 0.014 kg/cm² (0.2 psi)

COUNTERWEIGHT

Segment plate type

Additional weight . . . 2122 kg (4,679 lb)

PUSHER PLATE FOR SEMI-U DOZER

Additional weight 268 kg (591 lb)

Dimensions:

Weight 1200 mm (3'11")

Height 1358 mm (4'5")

RIGID TYPE DRAWBAR:

Additional weight. . . 233 kg (513 lb)

OTHERS

Towing winch. Fairlead. Coolant pre-heater. Reversible fan. Cab heater and defroster. Engine side covers enclosed. Engine side covers perforated. Engine hood perforated. Air-conditioner. Vandalism protection. Tool kit. Hole clearance cover, pre-cleaner and exhaust. Cylinder stay cover. Hinged 2-piece radiator guard. Radiator core protective grid. Track center guiding guards. Multi-shank fixed type ripper. U-blade push plate. Semi-U-blade push plate. Tilting device for cab.

TRACK SHOE SELECTION

	Additional weight kg (lb)	Ground contact area cm ² (in ²)	Additional ground pressure kg/cm ² (psi)
560 mm (22") single grouser shoe	-200 (440)	34608 (5,363)	+0.060 (0.94)
660 mm (26") single grouser shoe	+384 (847)	40788 (6,321)	-0.123 (1.75)
710 mm (28") single grouser shoe	+600 (1,323)	43878 (6,800)	-0.171 (2.43)
560 mm (22") extreme service shoe	+448 (988)	34608 (5,363)	+0.013 (0.18)
610 mm (24") extreme service shoe	+680 (1,500)	37698 (5,842)	-0.054 (0.77)
660 mm (26") extreme service shoe	+912 (2,011)	40788 (6,322)	-0.110 (1.56)

RIPPERS

Type	Variable giant	Variable multishank
No. of shanks	1	3
Weight (incl. hydraulic control unit) kg (lb)	2850 (6,283)	3860 (8,511 lb)
Beam length mm (ft. in.)	1115 (3'8")	2325 (7'8")
Max. lift above ground mm (ft. in.)	740 (2'5")	1250 (4'1")
Max. digging depth mm (ft. in.)	1135 (3'9")	590 (1'11")
Digging angle	34° ~62°	34° ~62°
Additional length mm (ft. in.)	1795 (5'11")	1785 (5'10")

Form No. AE55312-01

Materials and specifications are subject to change without notice

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