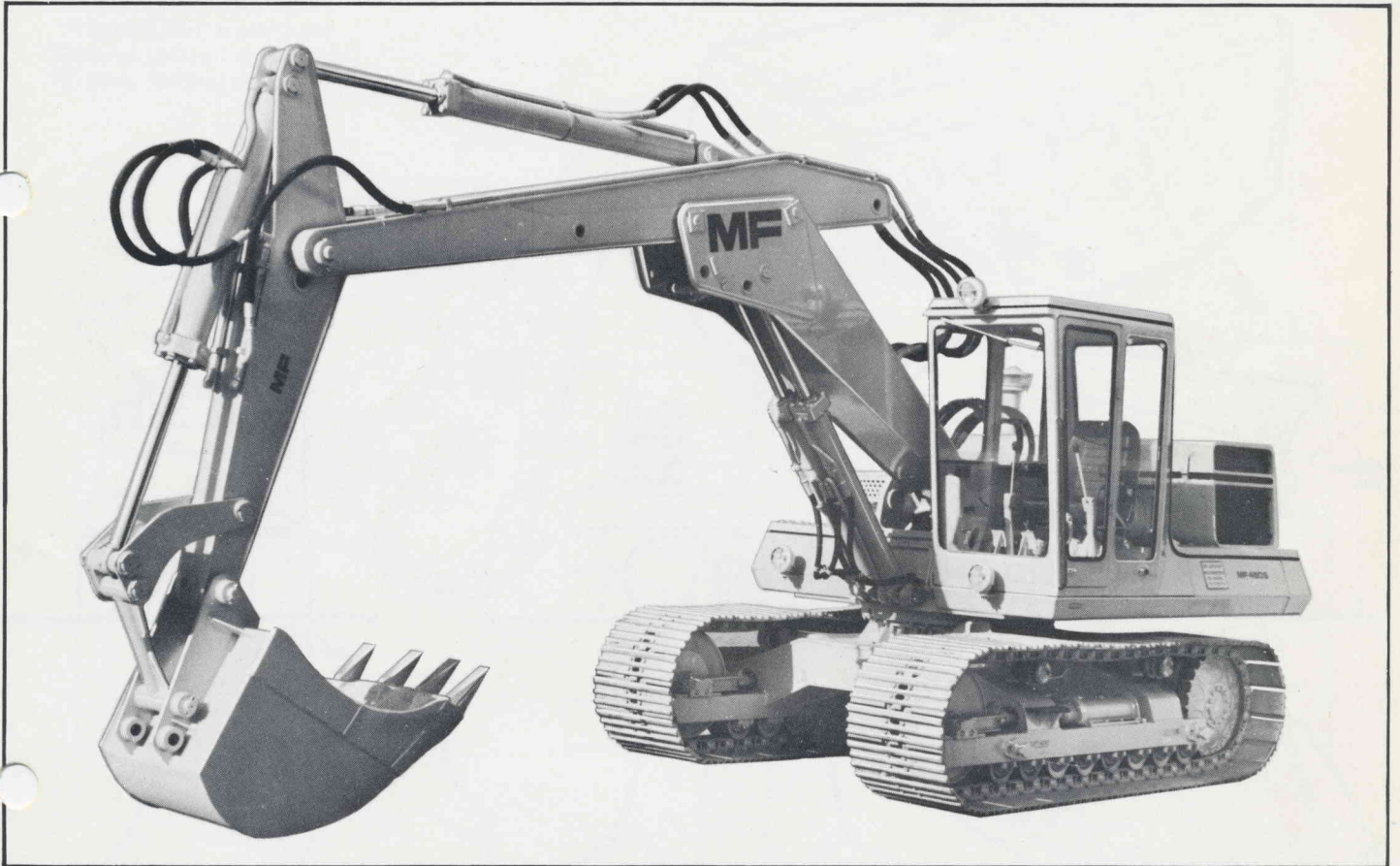


MF

Massey Ferguson

MF 450S Hydraulic Excavator

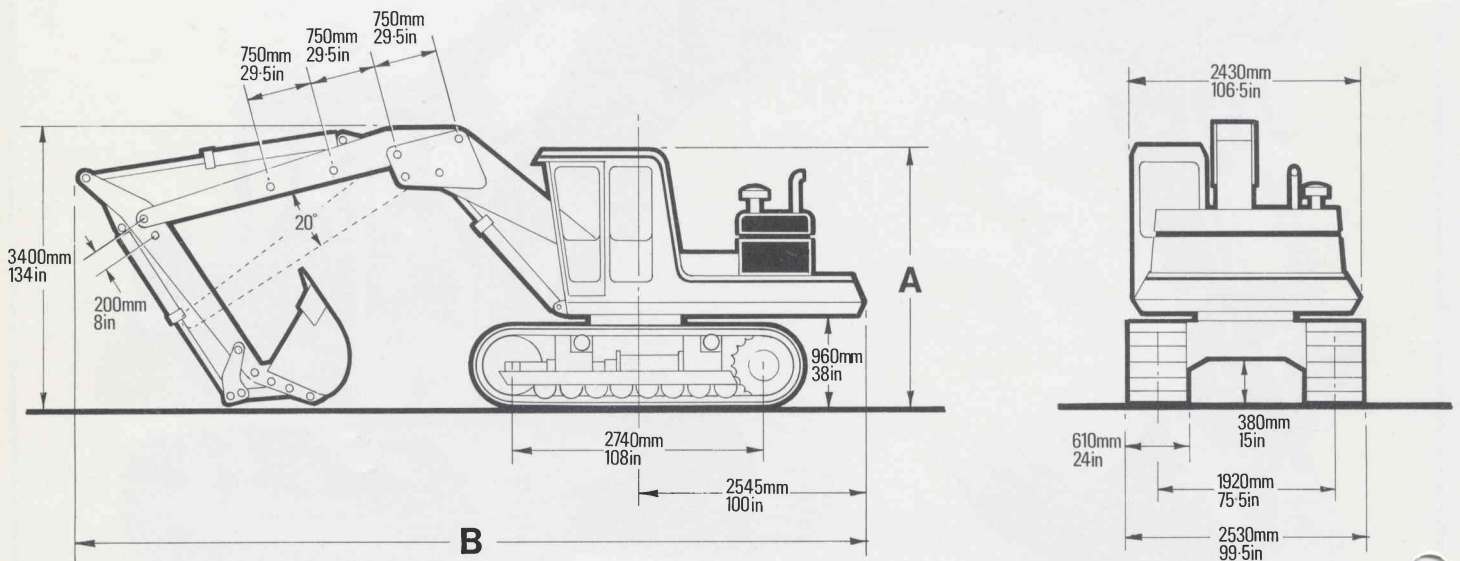
- 88 net flywheel h.p.
- 580 litre ($\frac{3}{4}$ cu. yd.) standard bucket



- Perkins 6 cylinder diesel - 5800 cm³ (354 cu. in.)
- Independent hydrostatic drive tracks
- Two lever digging controls
- Three length and two angle settings on boom
- Speed or power settings on dipperstick
- Slew speed 7 $\frac{1}{2}$ rpm
- Life-sealed rollers, idlers and track pins. Hydraulic track tensioning
- Buckets up to 765 litres (1 cu. yd.)

MF 450S Hydraulic Excavator

Dimensions-General



Ground contact area – with tracks on hard ground
 610 mm (24in) shoes 33.430 cm² (5180 in²)
 710 mm (28in) shoes 38.960 cm² (6040 in²)

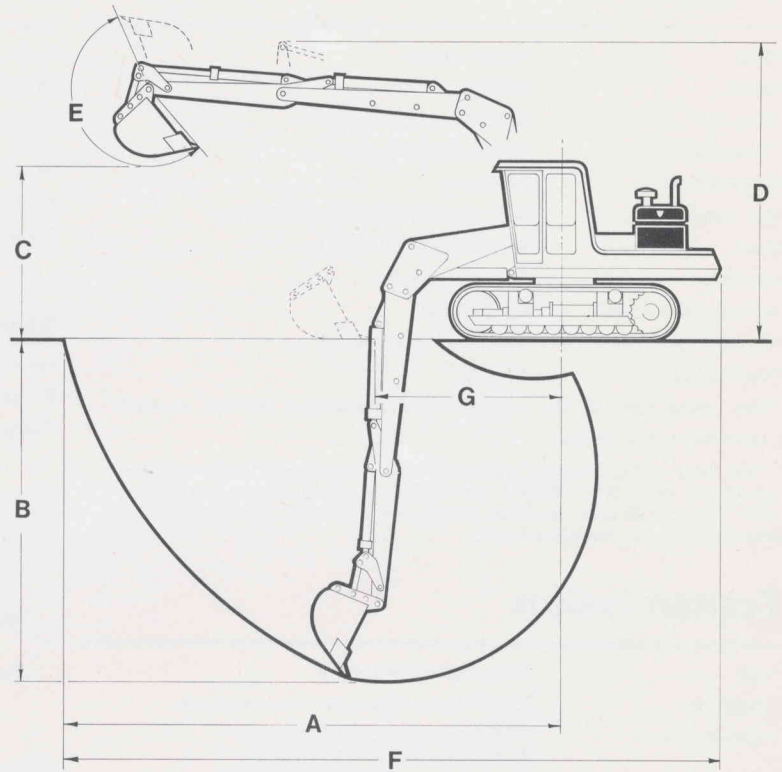
Digging force (bucket cylinder)
 –Maximum theoretical 13.300 kg (29,500 lb)

Note: All dimensions are for a machine equipped with 610 mm (24 in) track shoes; 580 litre (¾ cu yd) capacity bucket; 2200 mm (86½ in) dipperstick.

	A	OVERALL HEIGHT (TRAVEL POSITION)	B	OVERALL LENGTH (TRAVEL POSITION)
1/HIGH		3400 mm (11ft 2in)		7600 mm (24ft 11in)
2/HIGH		3100 mm (10ft 2in)		8350 mm (27ft 4in)
3/HIGH		2950 mm (9ft 8in)		9050 mm (29ft 8in)
1/LOW		4000 mm (13ft 1in)		7050 mm (23ft 1in)
2/LOW		3640 mm (11ft 11in)		7900 mm (25ft 11in)
3/LOW		3450 mm (11ft 4in)		8530 mm (28ft 0in)

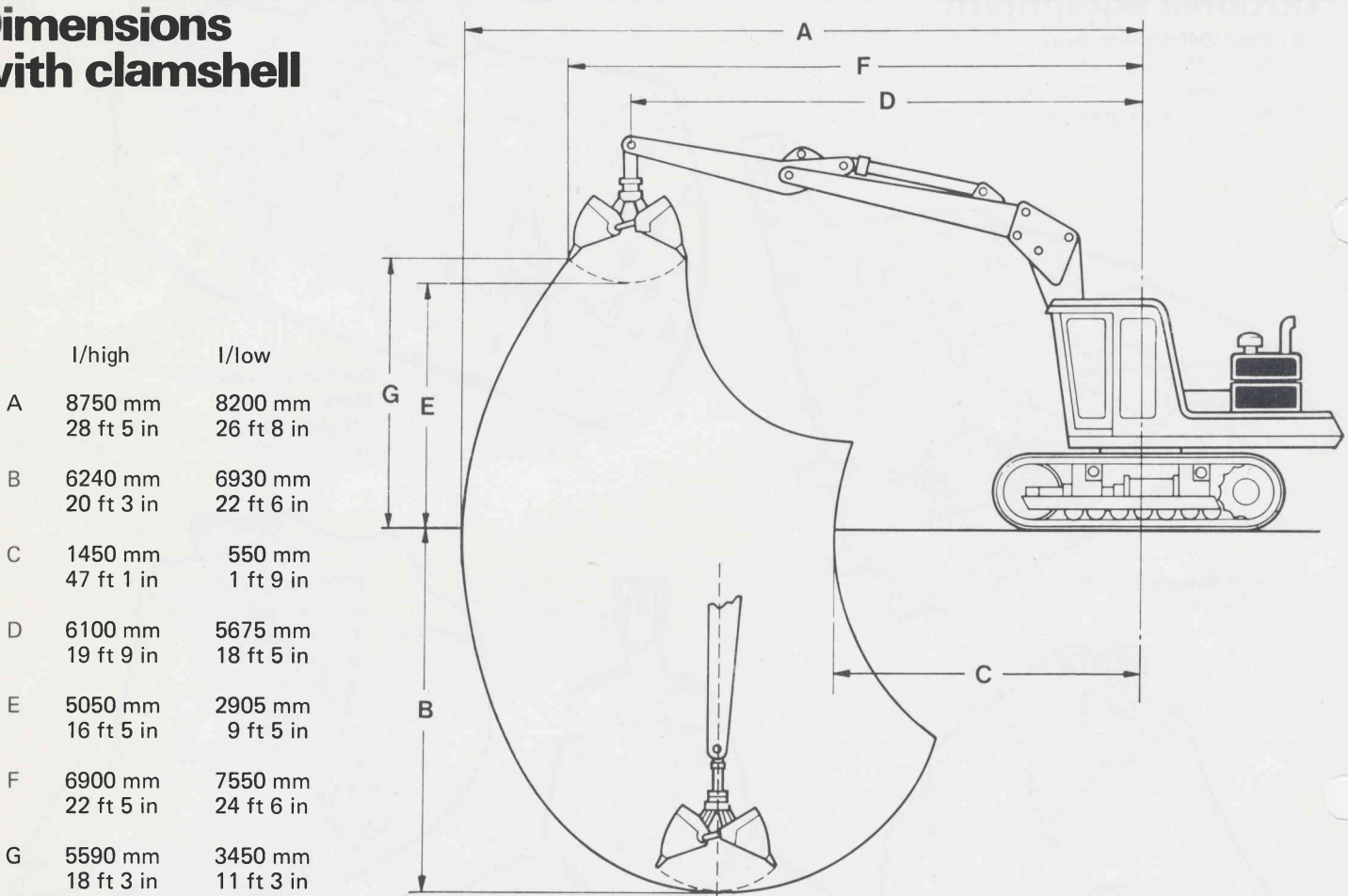
Dimensions-Operational

Note: All digging ranges are for a machine with the dipperstick in the 'speed' position. Bucket fitted is of 580 litre (¾ cu yd) capacity – distance from pivot to tips of teeth – 1180 mm (3ft 10½in).

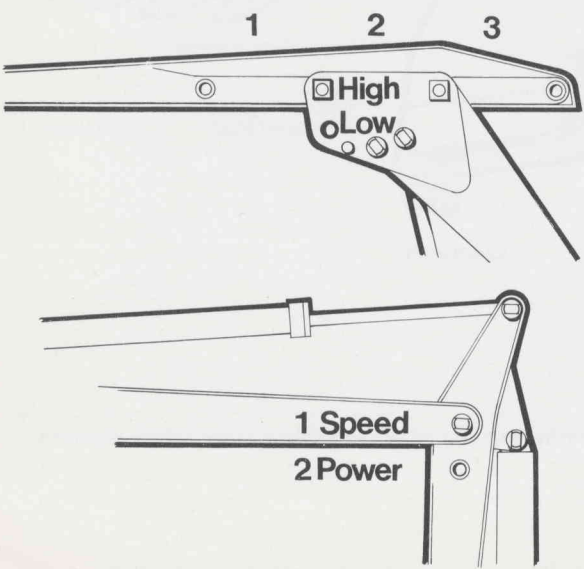


	1/high	2/high	3/high	1/low	2/low	3/low
A	7450 mm 24 ft 5½in	8250 mm 27ft 1in	8990 mm 29ft 6in	6930 mm 22ft 9in	7700 mm 25ft 3in	8400 mm 27ft 6½in
B	4200 mm 13ft 9½in	4840 mm 15ft 10½in	5520 mm 18ft 1½in	4470 mm 14ft 8in	5210 mm 17ft 1in	5950 mm 19ft 6in
C	4730 mm 15ft 6in	5130 mm 16ft 10in	5520 mm 18ft 1½in	3300 mm 10ft 10in	3480 mm 11ft 5in	3570 mm 11ft 8½in
D	7280 mm 23ft 10½in	7700 mm 25ft 3in	8070 mm 26ft 5½in	5600 mm 18ft 4½in	5730 mm 18ft 9½in	5820 mm 19ft 1in
E	195°	195°	195°	195°	195°	195°
F	9950 mm 32ft 7½in	10750 mm 35ft 3in	11490 mm 37ft 8½in	9430 mm 30ft 11in	10200 mm 33ft 5½in	10900 mm 35ft 9in
G	2430 mm 7ft 11½in	3220 mm 10ft 7in	4000 mm 13ft 1½in	1680 mm 5ft 6in	2600 mm 8ft 6½in	3250 mm 10ft 8in

Dimensions with clamshell



	l/high	l/low
A	8750 mm 28 ft 5 in	8200 mm 26 ft 8 in
B	6240 mm 20 ft 3 in	6930 mm 22 ft 6 in
C	1450 mm 47 ft 1 in	550 mm 1 ft 9 in
D	6100 mm 19 ft 9 in	5675 mm 18 ft 5 in
E	5050 mm 16 ft 5 in	2905 mm 9 ft 5 in
F	6900 mm 22 ft 5 in	7550 mm 24 ft 6 in
G	5590 mm 18 ft 3 in	3450 mm 11 ft 3 in

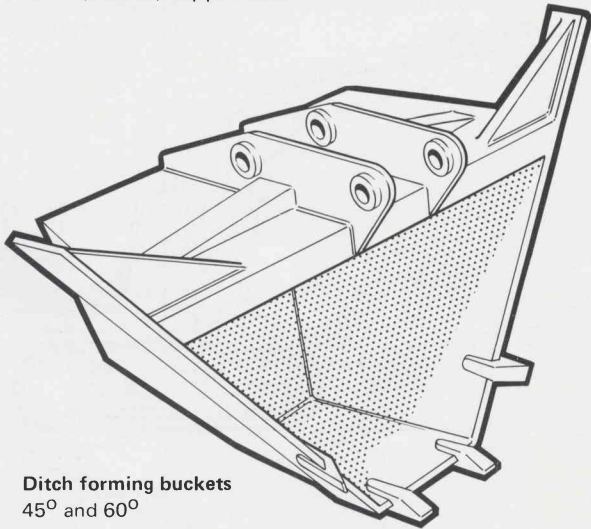


Boom positions	Dipperstick positions	Tipping Load*	
		kg	lb
1/high	1	2415	5320
2/high	1	1905	4200
3/high	1	1460	3220
1/low	1	2795	6160
2/low	1	2285	5040
3/low	1	1840	4060
1/high	2	7295	6160
2/high	2	2030	4480
3/high	2	1715	3780
1/low	2	3175	7000
2/low	2	2475	5460
3/low	2	1970	4340

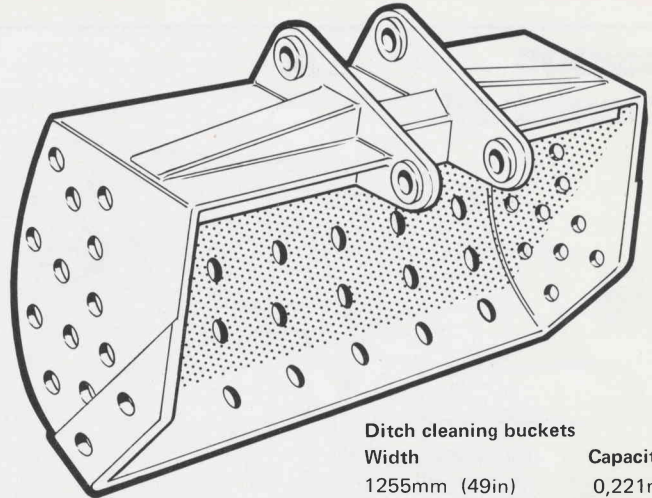
*Tipping loads measured over side of crawlers

Optional equipment

610mm (24in) track shoes
 710mm (28in) track shoes
 2200mm (86½in) dipperstick
 1510mm (59½in) dipperstick

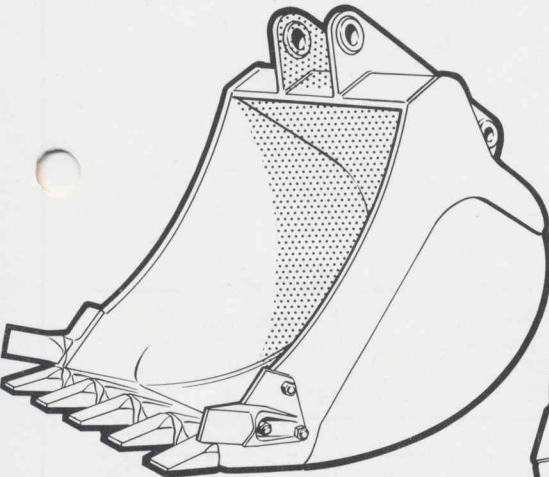


Ditch forming buckets
 45° and 60°



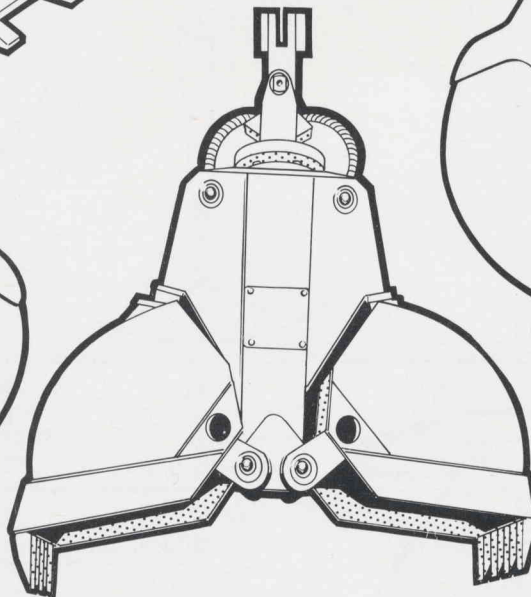
Ditch cleaning buckets

Width	Capacity
1255mm (49in)	0,221m ³ (7.8cu.ft.)
1520mm (60in)	0,311m ³ (11.2cu.ft.)

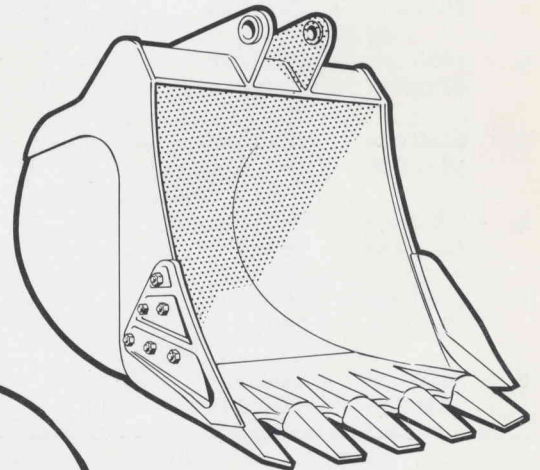


General purpose buckets

914mm (36in)	480 litres (5/8cu.yds)
1067mm (42in)	765 litres (1 cu.yd.)



Clamshell



Heavy duty buckets

914mm (36in)	480 litres (5/8cu.yds.)
1120mm (45in)	765 litres (1 cu.yd.)

Standard equipment

Dry-type air cleaner with four stage filtration pre-cleaning in two stages; washable main filter; additional inner safety element.
 Visual restriction indicator.
 Toolbox and tool kit.
 Front work lights.
 Cab with front screen wiper.
 Full instrumentation – oil pressure gauge, water temperature gauge, hourmeter, hydraulic oil level indicator, fuel gauge.
 Slewing lock.

MF

Massey Ferguson

Engine

Make	Perkins diesel
Model	A6.354
*Max. hp	131 bhp at 2800 rpm
**Flywheel hp	88 bhp at 2000 rpm
Governed speed	2000 rpm
Max. torque	36,2 kgm (262 lb.ft.) at 1400 rpm
Bore	98,425 mm (3.875 in.)
Stroke	127 mm (5 in.)
Number of cylinders	Six (in-line)
Displacement	5800 cm ³ (354 cu.in.)
Electrical system	12 volt
*Max. gross bhp of the engine under conditions defined in SAE Engine Test Code J816a.	

**Net bhp at flywheel of standard engine operating under ambient conditions of 29,5°C (85°F) and 746 mm (29.38 in.) Hg, equipped with fan, air cleaner, muffler, water, oil and fuel injection pumps, generator (or alternator) charging.

Transmission

Type	Fully hydrostatic drive
Final drive	One radial piston motor on each track
Travel speeds	0-1,6 kph (0-1 mph) forward 0-1,6 kph (0-1 mph) reverse

Steering

Type	Obtained by independent use of track motors. Contra-rotation by actioning motors in opposite directions.
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Brakes

Type	Obtained by hydraulic locking of travel motors, plus emergency/parking drum brakes.
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Undercarriage

Type	Rigid frame
Rollers	Two upper, eight lower on each track
Track sealing	Sealed track chains. Rollers and idlers life-type sealed
Number of shoes	48 on each track
Shoe type	Semi-grouser
Track tensioning	Hydraulic, with grease gun. Recoil spring enclosed in oil bath.

Hydraulic system

Filtration	Return flow, micronic
Pumps	Two, gear type Capacity (each) 117 litres (25.7 Imp.gall.)/ min. at 2000 rpm.
Relief valves	160 kg/cm ² (2300 lb./in. ²) setting
Cylinders	
boom (two)	Bore 127 mm (5 in.) Stroke 1100 mm (43.307 in.)
dipperstick	Bore 127 mm (5 in.) Stroke 1450 mm (57.086 in.)
bucket	Bore 139,7 mm (5.5 in.) Stroke 1000 mm (39.370 in.)

Capacities

Cooling system	24 litres (5¼ Imp. gall.)
Fuel	120 litres (25½ Imp. gall.)
Hydraulic system	230 litres (50½ Imp. gall.)
Engine oil	13 litres (2¾ Imp. gall.)
Final drive	8 litres (1¾ Imp. gall.) (each side)
Slew gearbox	3 litres (5½ Imp. pints)
Track spring housing	4 litres (7 Imp. pints) (each side)

Operating weights

610 mm (24 in.) shoes	15.200 kg (33,510 lb.)
710 mm (28 in.) shoes	15.600 kg (34,390 lb.)
Hard ground pressure	
610 mm (24 in.) shoes	0,454 kg/cm ² (6.45 lb./in. ²)
710 mm (28 in.) shoes	0,400 kg/cm ² (5.69 lb./in. ²)

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