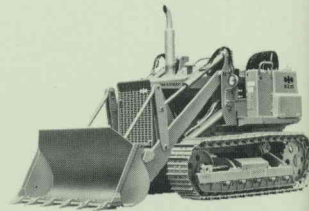
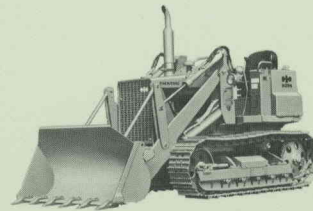
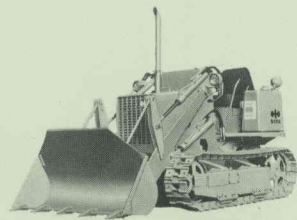
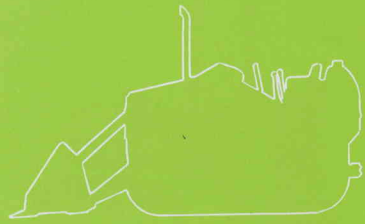


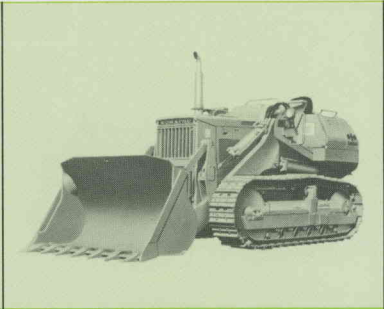
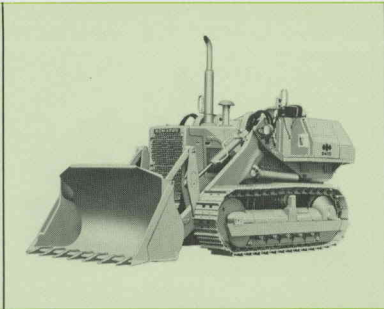
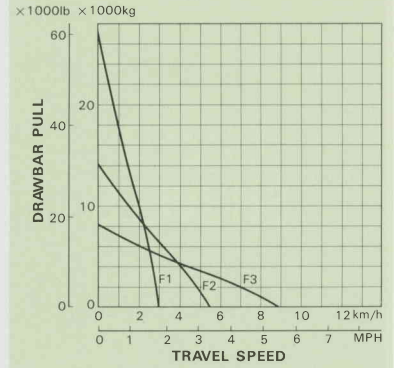
DOZER SHOVELS



	D10S-2	D20S-5	D21S-5
Bucket capacity	0.25 m ³ (0.33 cu.yd)	0.4 m ³ (0.5 cu.yd)	0.4 m ³ (0.5 cy.yd)
*Flywheel horsepower	21 HP (16 kW)/2100 RPM	39 HP (29 kW)/2450 RPM	39 HP (29 kW)/2450 RPM
**Operating weight	1940 kg (4,280 lb)	3770 kg (8,310 lb)	3830 kg (8,440 lb)
Engine: Model Piston displacement	KOMATSU 2D94-2B 1.47 ltr (89.7 cu.in)	KOMATSU 4D94-2 2.94 ltr (179 cu.in)	KOMATSU 4D94 2.94 ltr (179 cu.in)
Transmitting system	Direct drive	Direct drive	Hydroshift
No. of track rollers (each side)	4	5	5
Track shoe width	250 mm (9.8") Mono-cast double grouser	300 mm (11.8") Assembled triple grouser	300 mm (11.6") Assembled triple grouser
Length of track on ground	1465 mm (4'10")	1685 mm (5'6")	1685 mm (5'6")
Ground pressure	0.26 kg/cm ² (3.69 PSI/25.5 kPa)	0.37 kg/cm ² (5.26 PSI/36.3 kPa)	0.38 kg/cm ² (5.40 PSI/37.3 kPa)
Track gauge	1060 mm (3'6")	1310 mm (4'4")	1310 mm (4'4")
Static tipping load	1285 kg (2,830 lb)	2170 kg (4,780 lb)	2230 kg (4,920 lb)
Breakout force	1490 kg (3,280 lb/14.6 kN)	3570 kg (7,870 lb/34.9 kN)	3570 kg (7,870 lb/34.9 kN)
Dumping reach	600 mm (2')	735 mm (2'5")	735 mm (2'5")
Dumping clearance	1750 mm (5'9")	2130 mm (7')	2130 mm (7')
Overall dimensions			
height	1980 mm (6'6")	2140 mm (7')	2140 mm (7')
length	2900 mm (9'6")	3560 mm (11'8")	3560 mm (11'8")
width w/o bucket	1310 mm (4'4")	1610 mm (5'3")	1610 mm (5'3")
bucket width	1350 mm (4'5")	1670 mm (5'6")	1670 mm (5'6")
Travel speed km/h (MPH)			
forward	1st 2.4 (1.5) 2nd 4.6 (2.9)	1st 2.8 (1.7) 2nd 4.0 (2.5) 3rd 7.4 (4.6)	1st 2.6 (1.6) 2nd 4.4 (2.7)
reverse	1st 4.0 (2.5)	1st 4.5 (2.8) 2nd 6.5 (4.0)	1st 3.2 (2.0) 2nd 5.4 (3.4)



D53S-16

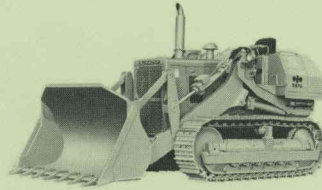
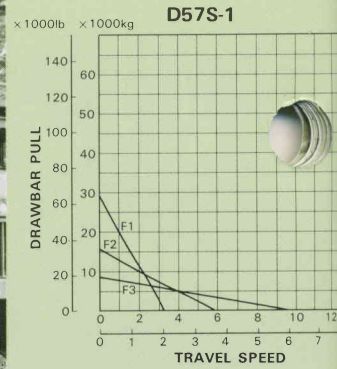
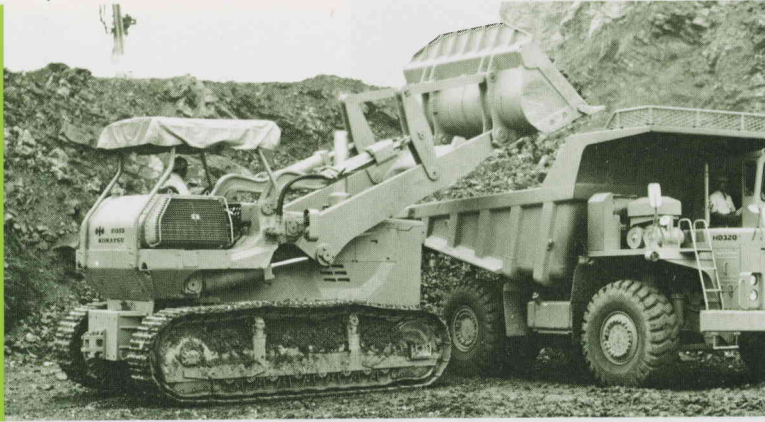


D31S-17	D41S-3	D50S-16	D53S-16
---------	--------	---------	---------

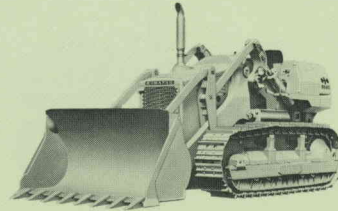
0.8 m ³ (1.0 cu.yd)	1.2 m ³ (1.6 cu.yd)	1.4 m ³ (1.8 cu.yd)	1.4 m ³ (1.8 cu.yd)
66 HP (49 kW)/2350 EPM	90 HP (67 kW)/2350 RPM	110 HP (82 kW)/1900 RPM	110 HP (82 kW)/1900 RPM
6650 kg (14,660 lb)	11040 kg (24,340 lb)	12905 kg (28,450 lb)	13055 kg (28,780 lb)
KOMATSU 4D105-5 4.33 ltr (264 cu.in)	KOMATSU 6D 105 6.49 ltr (396 cu. in)	KOMATSU 4D130 8.495 ltr (518 cu.in)	KOMATSU 4D130-1 8.495 ltr (518 cu.in)
5 shift	Hydroshift	Direct drive	TORQFLOW
5	5	5	5
330 mm (13.0") Assembled triple grouser	400 mm (15.7") Assembled triple grouser	400 mm (15.7") Assembled triple grouser	400 mm (15.7") Assembled triple grouser
1880 mm (6'2")	2060 mm (6'9")	2200 mm (7'3")	2200 mm (7'3")
0.54 kg/cm ² (7.68 PSI/53.0 kPa)	0.67 kg/cm ² (9.53 PSI/65.7 kPa)	0.73 kg/cm ² (10.38 PSI/71.6 kPa)	0.74 kg/cm ² (10.52 PSI/72.6 kPa)
1450 mm (4'9")	1540 mm (5'1")	1600 mm (5'3")	1600 mm (5'3")
4260 kg (9,390 lb)	7040 kg (15,520 lb)	8290 kg (18,280 lb)	8320 kg (18,340 lb)
6400 kg (14,110 lb/62.6 kN)	8500 kg (18,740 lb/83.3 kN)	14800 kg (32,630 lb/144.7 kN)	10480 kg (23,100 lb/102.5 kN)
830 mm (2'9")	1030 mm (3'5")	1055 mm (3'6")	1055 mm (3'6")
2540 mm (8'4")	2600 mm (8'6")	2780 mm (9'1")	2780 mm (9'1")
2655 mm (8'9")	2995 mm (9'10")	2840 mm (9'4")	2840 mm (9'4")
4145 mm (13'7")	4890 mm (16'1")	5240 mm (17'2")	5240 mm (17'2")
1790 mm (5'10")	1940 mm (6'4")	2045 mm (6'9")	2045 mm (6'9")
1905 mm (6'3")	2115 mm (6'11")	2130 mm (7')	2130 mm (7')

1st 2.2 (1.4) 2nd 3.9 (2.4) 3rd 6.5 (4.0)	1st 2.4 (1.5) 2nd 4.4 (2.7) 3rd 7.6 (4.7)	1st 2.6 (1.6) 2nd 3.7 (2.3) 3rd 5.4 (3.4) 4th 9.1 (5.7)	1st 0- 3.0 (1.9) 2nd 0- 5.4 (3.4) 3rd 0- 8.8 (5.5)
1st 2.4 (1.5) 2nd 4.3 (2.7) 3rd 7.1 (4.4)	1st 3.0 (1.9) 2nd 5.5 (3.4) 3rd 9.4 (5.8)	1st 3.5 (2.2) 2nd 5.5 (3.4) 3rd 7.9 (4.9)	1st 0- 3.6 (2.2) 2nd 0- 6.5 (4.0) 3rd 0-10.4 (6.5)

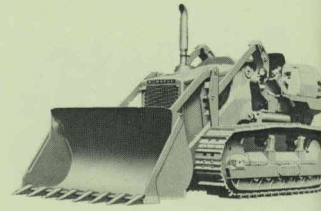
DOZER SHOVELS



D57S-1



D60S-7

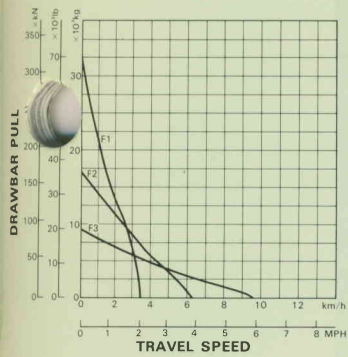


D65S-7

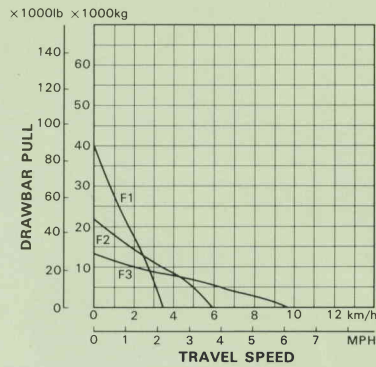
Bucket capacity	1.8 m ³ (2.4 cu.yd)	1.8 m ³ (2.4 cu.yd)	1.8 m ³ (2.4 cu.yd)
* Flywheel horsepower	135 HP (101 kW)/1900 RPM	155 HP (116 kW)/1750 RPM	160 HP (119 kW)/1850 RPM
** Operating weight	15280 kg (33,690 lb)	17640 kg (38,900 lb)	17940 kg (39,560 lb)
Engine: Model Piston displacement	KOMATSU S4D130-1A 8.495 ltr (518 cu.in)	KOMATSU-CUMMINS NH220-CI 12.17 ltr (743 cu.in)	KOMATSU-CUMMINS NH220-CI 12.17 ltr (743 cu.in)
Transmitting system	TORQFLOW	Direct drive	TORQFLOW
No. of track rollers (each side)	6	6	6
Track shoe width	400 mm (15.7") Assembled triple grouser	460 mm (18.1") Assembled triple grouser	460 mm (18.1") Assembled triple grouser
Length of track on ground	2425 mm (7'11")	2635 mm (8'8")	2635 mm (8'8")
Ground pressure	0.79 kg/cm ² (11.2 PSI/77.5 kPa)	0.73 kg/cm ² (10.38 PSI/71.5 kPa)	0.74 kg/cm ² (10.53 PSI/72.6 kPa)
Track gauge	1700 mm (5'7")	1880 mm (6'2")	1880 mm (6'2")
Static tipping load	10620 kg (23,410 lb)	10800 kg (23,810 lb)	11300 kg (24,910 lb)
Breakout force	11650 kg (25,680 lb/114.2 kN)	13300 kg (39,320 lb/130.3 kN)	14020 kg (30,910 lb/137.1 kN)
Dumping reach	1240 mm (4'1")	1300 mm (4'3")	1300 mm (4'3")
Dumping clearance	2860 mm (9'5")	2730 mm (8'11")	2730 mm (8'11")
Overall dimensions			
height	2925 mm (9'7")	2990 mm (9'10")	2990 mm (9'10")
length	5650 mm (18'6")	5790 mm (19')	5790 mm (19')
width w/o bucket	2145 mm (7')	2355 mm (7'9")	2355 mm (7'9")
bucket width	2290 mm (7'6")	2497 mm (8'2")	2497 mm (8'2")

Travel speed km/h (MPH)			
forward	1st 0- 3.1 (1.9) 2nd 0- 5.7 (3.5) 3rd 0- 9.5 (5.9)	1st 2.5 (1.6) 4th 8.7 (5.4) 2nd 4.0 (2.5) 5th 11.3 (7.0) 3rd 6.0 (3.7)	1st 0- 3.4 (2.1) 2nd 0- 6.1 (3.8) 3rd 0- 9.8 (6.1)
reverse	1st 0- 3.8 (2.4) 2nd 0- 6.9 (4.3) 3rd 0-11.5 (7.1)	1st 3.3 (2.1) 2nd 5.3 (3.3) 3rd 7.9 (4.9) 4th 11.3 (7.0)	1st 0- 4.5 (2.8) 2nd 0- 7.8 (4.8) 3rd 0-12.2 (7.6)

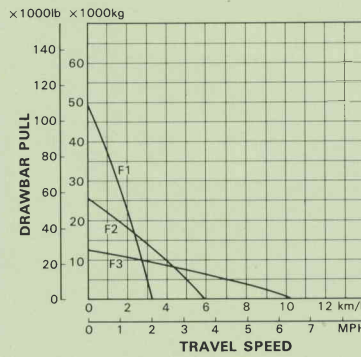
D65S-7



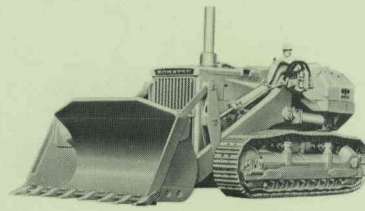
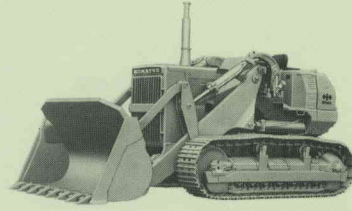
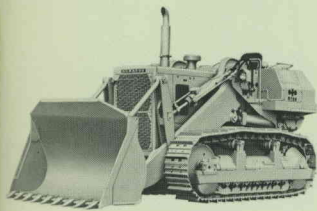
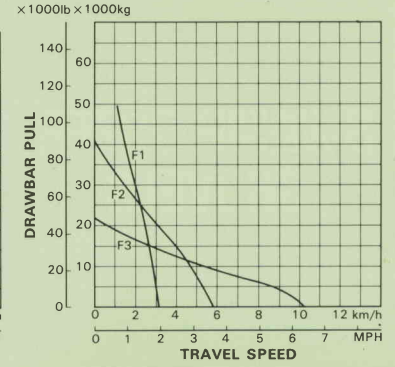
D75S-3



D95S-2



D155S-1



D75S-3

D95S-2

D155S-1

2.2 m³ (2.9 cu.yd)

3.2 m³ (4.2 cu.yd)

4.5 m³ (5.9 cu.yd)

200 HP (149 kW)/2000 RPM

245 HP (183 kW)/1850 RPM

350 HP (261 kW)/2000 RPM

21450 kg (47,290 lb)

29800 kg (65,700 lb)

41800 kg (92,150 lb)

KOMATSU-CUMMINS NTO-6-CI
12.17 ltr (743 cu.in)

KOMATSU-CUMMINS NT855
14.01 ltr (855 cu.in)

KOMATSU S6D155-4E
19.26 ltr (1,175 cu.in)

TORQFLOW

TORQFLOW

TORQFLOW

7

7

8

460 mm (18.1")
Assembled triple grouser

510 mm (20.1")
Assembled triple grouser

560 mm (22.1")
Assembled triple grouser

2735 mm (9')

3050 mm (10')

3620 mm (11'11")

0.85 kg/cm² (12.09 PSI/83.3 kPa)

0.96 kg/cm² (13.7 PSI/94.1 kPa)

1.03 kg/cm² (14.65 PSI/101.0 kPa)

1950 mm (76.8")

2250 mm (7'5")

2380 mm (7'10")

14200 kg (31,310 lb)

19960 kg (43,340 lb)

28200 kg (62,170 lb)

17890 kg (39,440 lb/175 kN)

22700 kg (50,040 lb/222.0 kN)

25200 kg (55,560 lb/247 kN)

1280 mm (4'2")

1310 mm (4'4")

1555 mm (5'1")

3200 mm (10'6")

3245 mm (10'8")

3695 mm (12'1")

3225 mm (10'7")

3665 mm (12')

3875 mm (12'9")

6200 mm (20'4")

6330 mm (20'9")

7730 mm (25'4")

2410 mm (7'11")

2760 mm (9'1")

3020 mm (9'11")

2500 mm (8'2")

2942 mm (9'8")

3150 mm (10'4")

1st 0- 3.3 (2.0)

1st 0- 3.2 (2.0)

1st 0- 3.2 (2.0)

2nd 0- 5.8 (3.6)

2nd 0- 5.8 (3.6)

2nd 0- 5.9 (3.7)

3rd 0- 9.6 (6.0)

3rd 0-10.1 (6.3)

3rd 0-10.2 (6.3)

1st 0- 4.3 (2.7)

1st 0- 3.8 (2.4)

1st 0- 3.9 (2.4)

2nd 0- 7.5 (4.7)

2nd 0- 6.9 (4.3)

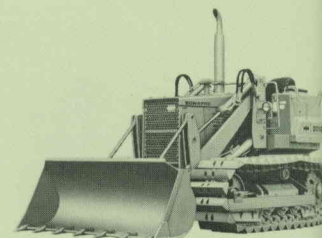
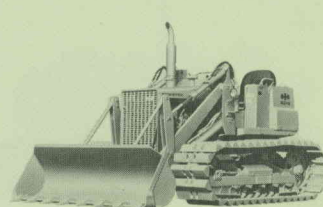
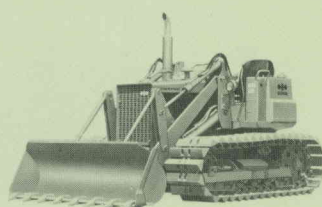
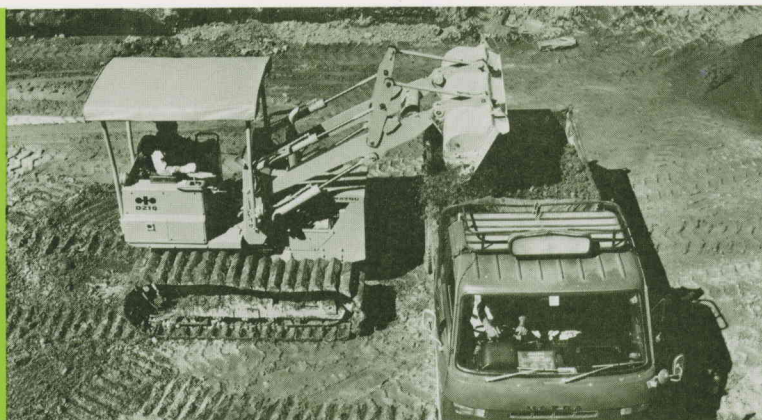
2nd 0- 7.1 (4.4)

3rd 0-12.1 (7.5)

3rd 0-11.9 (7.4)

3rd 0-12.1 (7.5)

SWAMP DOZER SHOVELS



D20Q-5

D21Q-5

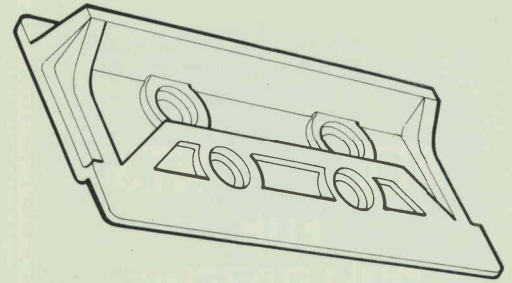
D31Q-17

Bucket capacity	0.4 m ³ (0.5 cu.yd)	0.4 m ³ (0.5 cu.yd)	0.8 m ³ (1.0 cu.yd)
*Flywheel horsepower	39 HP (29 kW)/2450 RPM	39 HP (29 kW)/2450 RPM	66 HP (49 kW)/2350 RPM
**Operating weight	4080 kg (8,990 lb)	4140 kg (9,130 lb)	7000 kg (15,430 lb)
Engine: Model Piston displacement	KOMATSU 4D94-2N 2.94 ltr (179 cu.in)	KOMATSU 4D94-2 2.94 ltr (179 cu.in)	KOMATSU 4D105-5 4.33 ltr (264 cu. in)
Transmitting system	Direct drive	Hydroshift	Hydroshift
No. of track rollers (each side)	5	5	5
Track shoe width	510 mm (20.1") Assembled swamp shoe	510 mm (20.1") Assembled swamp shoe	600 mm (24.0") Assembled swamp shoe
Length of track on ground	1685 mm (5'6")	1685 mm (5'6")	1880 mm (6'2")
Ground pressure	0.24 kg/cm ² (3.41 PSI/23.5 kPa)	0.24 kg/cm ² (3.41 PSI/23.5 kPa)	0.31 kg/cm ² (4.41 PSI/30.4 kPa)
Track gauge	1490 mm (4'11")	1490 mm (4'11")	1650 mm (5'5")
Static tipping load	2340 kg (5,160 lb)	2480 kg (5,470 lb)	4430 kg (9770 lb)
Breakout force	4060 kg (8,950 lb/39.7 kN)	4060 kg (8,950 lb/39.7 kN)	6800 kg (14,990 lb/66.5 kN)
Dumping reach	660 mm (2'2")	660 mm (2'2")	750 mm (2'6")
Dumping clearance	2235 mm (7'4")	2235 mm (7'4")	2640 mm (8'8")
Overall dimensions			
height	2185 mm (7'2")	2185 mm (7'2")	2705 mm (8'11")
length	3445 mm (11'4")	3445 mm (11'4")	4045 mm (13'3")
width w/o bucket	2000 mm (6'7")	2000 mm (6'7")	2250 mm (7'5")
bucket width	2020 mm (6'8")	2020 mm (6'8")	2300 mm (7'7")

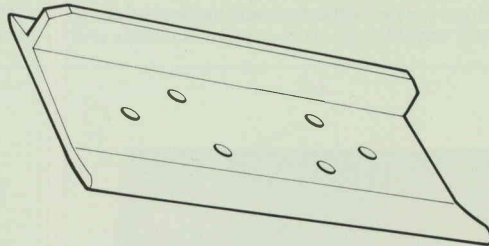
Travel speed km/h (MPH) forward	1st 2.8 (1.7)	1st 2.6 (1.6)	1st 2.2 (1.4)
	2nd 4.0 (2.5)	2nd 4.4 (2.7)	2nd 3.9 (2.4)
	3rd 7.4 (4.6)		3rd 6.5 (4.0)
reverse	1st 4.5 (2.8)	1st 3.2 (2.0)	1st 2.4 (1.5)
	2nd 6.5 (4.0)	2nd 5.4 (3.4)	2nd 4.3 (2.7)
			3rd 7.1 (4.4)



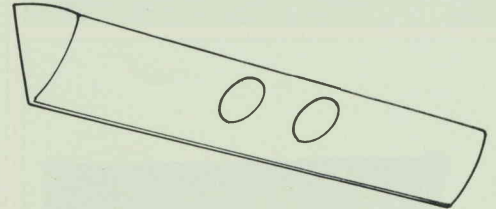
TRACK SHOES



SCORIA DISPOSAL SHOE
Made of low manganese steel to prevent deterioration due to heat.



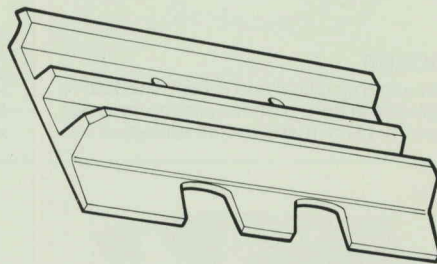
SINGLE-GROUSER SHOE
Bites the ground firmly for great traction. Suitable for bulldozers.



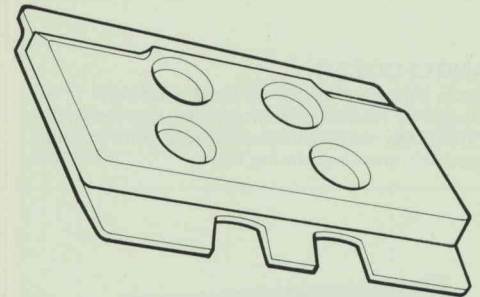
SWAMP SHOE
Ideal for operations on muddy, soft terrain. Minimal mud clogging for less slipping and greater traction.

D41Q-3

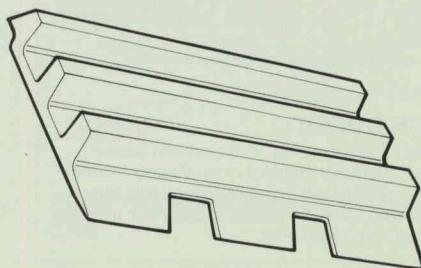
1.2 m ³ (1.6 cu.yd)
90 HP (67 kW)/2350 RPM
11300 kg (24,910 lb)
KOMATSU 6D105-1 6700 cc (396 cu.in)
5 shift
5
560 mm (22.0") Assembled semi-double-grouser
2060 (8'6")
0.49 kg/cm ³ (6.97 PSI/48.1 kPa)
1760 mm (5'9")
7500 kg (16,530 lb)
9000 kg (19,840 lb)
980 mm (3'3")
2655 mm (8'9")
3015 mm (9'11")
4815 mm (15'10")
2320 mm (7'7")
2415 mm (7'11")



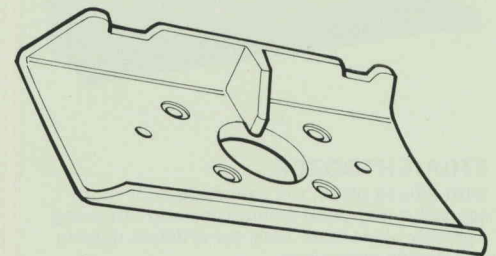
SEMI-DOUBLE-GROUSER SHOE
Used for dozer shovel.



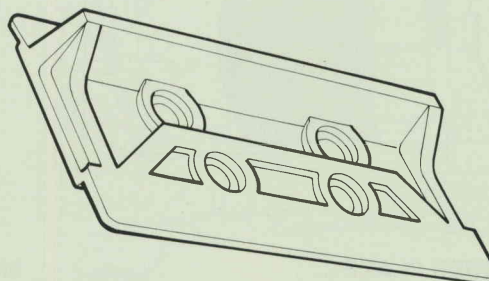
FLAT SHOE
Ideal for operation on paved area or shipholds.



TRIPLE-GROUSER SHOE
Used for dozer shovel.



SNOW SHOE
Has projections and specially-designed grouser to minimize side slipping.



ROCKBED SHOE
Reinforced to withstand heavy-duty breaking/bending force.

Other shoes also available upon request.

1st 2.4 (1.5)
2nd 4.4 (2.7)
3rd 7.6 (4.7)

1st 3.0 (1.9)
2nd 5.5 (3.4)
3rd 9.4 (5.8)

Photo includes an optional ROPS cab.