

TECHNICAL SPECIFICATIONS

6.1 Technical Specifications

ENGINE	Model	Model: 20
	Make	Mitsubishi Heavy Industries, Ltd.
	Engine Type	3 Cylinder, 4 Stroke, Naturally Aspirated Liquid Cooled, Diesel Engine
	Model and Identification	MVL3E
	Bore x Stroke	76 mm x 70 mm [2.99 in. x 2.75 in.]
	Firing order	1-3-2
	Cylinder Capacity (cc)	952
	Compression ratio	23:1 ±0.5
	Injection timing	17° ±1 BTDC
	Engine Rated speed	2700 rpm
	Low Idling	1000 ±30
	Valve Clearance Intake (mm) / Exhaust (mm)	0.25 mm [0.0098 in.] / 0.25 mm [0.0098 in.]
LUBRICATION	Total Engine Lub. Oil Capacity (Litres)	3.6 [0.95 US Gallons]
TRANSMISSION	Clutch Type	Dry, Friction Plate, dia 180mm, [7 in.]
	Gearbox Type	Sliding Mesh (6+2)
	Type	Mechanical, Expandable shoe type
BRAKES	Minimum dia of turning circle with Brakes (m)	4.2 (RHS) / 4.25 (LHS)
STEERING SYSTEM	Mechanical / Power	Mechanical
HYDRAULIC SYSTEM	Maximum Lifting capacity of TPL	500 Kg [1102 lbs.]
Power take off (P.T.O.)	Type	Type-I
	PTO Speeds	Transmission 1 (with Agri tyres): 540@2298 ERPM, 540E@1559 ERPM, 1000@1673 ERPM Transmission 2 (with Turf tyres): 540@2080 ERPM, 540E@1410 ERPM
TYRES	Front Tyre Size	Standard: 5.0x12 Optional: 6.0x12, 23x8.50-12 (Turf & Industrial)
	Rear Tyre Size	Standard: 8.0x18 Optional: 8.3x20, 33-15.50x16.50 (Turf & Indus.)
OVERALL DIMENSIONS (mm)	Wheel base	1425 mm [56.1 in.]
	Front Wheel Track	780-1035 mm [30.7-40.7 in.]
	Rear Wheel Track	720-835 mm [28.34-32.9 in.]
	Length	2660 mm [104.7 in.]
	Width	970-1210 mm [38.2-47.6 in.]
	Height (upto ROPS)	1955 mm [76.96 in.]
	Ground Clearance	205 mm [8.07 in.] (front axle centre)
	Total weight with driver (Front/Rear)	905 Kg [1995.2 lbs.] (Frt: 370 Kg, Rear: 535 Kg)

Table 6.1a

Note: All dimensions & specifications are for guidance purpose only & are subjected to change without prior notice.

TECHNICAL SPECIFICATIONS

ENGINE	Model	Model: 26	
	Make	Mitsubishi Heavy Industries, Ltd.	
	Engine Type	3 Cylinder, 4 Stroke, Naturally Aspirated Water Cooled, Vertical overhead valve	
	Model and Identification	MVS3L2	
	Bore x Stroke	78 mm x 92 mm	
	Firing order	1-3-2	
	Displacement (cc)	1.318 Litres	
	Compression ratio	22:1	
	Injection timing	17° BTDC	
	Engine Rated speed	2700 rpm	
	Low Idling	1000±25	
	Valve Clearance Intake (mm) / Exhaust (mm)	0.25 mm [0.0098 in.] / 0.25 mm [0.0098 in.]	
	HYDRAULICS	Max Lifting capacity of Hyd. Lift	600 Kg [1322.8 lbs.]
TRANSMISSION	Clutch Type	Single Clutch, Mechanical, Ø224mm [8.82 in.]	
	Gearbox Type	Sliding Mesh (6+2)	
BRAKES	Type	Oil Immersed Brakes	
	Minimum dia of turning circle with Brakes (m)	4.76 (RHS) / 4.9 (LHS)	
STEERING SYSTEM	Mechanical / Power	Power Steering	
P.T.O.	Power take off	Type	Type-I
		PTO Speeds	540@2703 ERPM, 1000@2558 ERPM
TYRES	Front Tyre Size	6.00 x 12 (Industrial & turf tyre options)	
	Rear Tyre Size	8.30 x 20 (Industrial & turf tyre options)	
OVERALL DIMENSIONS (mm)	Wheel base	1560 mm [61.41 in.]	
	Front Wheel Track	875-925 mm [34.4-36.4 in.]	
	Rear Wheel Track	730-830 mm [28.7-32.7 in.]	
	Length	2715 mm [106.8 in.]	
	Width	1065-1340 mm [41.9-52.7 in.]	
	Height upto ROPS	1950 mm [76.8 in.]	
	Ground Clearance (with std. tyres)	240mm [9.45 in.] (Front axle centre)	
Total Weight with driver (Front/Rear)		1005 Kg [2215.6 lbs.] (Frt: 425 Kg, Rear: 580 Kg)	

Table 6.1b

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TECHNICAL SPECIFICATIONS

6.2.1 MATCHING IMPLEMENTS FOR 20






Sr. No.	Implements	Parameter	Size	Speed	Remarks
1.	Sprayer 	Capacity Max. Pressure	200-600 L 20 bar Diaphragm pump	4-6 Kmph [2.5-3.8mph]	with PTO 1st
2.	Rotavator 	Working Width: L Shape 16 blades J Shape 20 blades	3' 3.5'	2-3 Kmph [1.3-1.9mph]	with 1st PTO
3.	M.B. Plough 	Mini 2 Bottom	8" width of cut of each bottom	2-4 Kmph [1.3-2.5mph]	
4.	Trailer 	GVW	1-2 Tons	5-18 Kmph [3.2-11.3mph]	
5.	Cultivator 	Spring Loaded Rigid type	5 Tyne Mini cultivator	4-5 Kmph [2.5-3.2mph]	

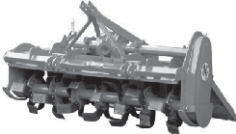
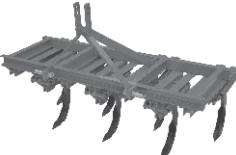



Table 6.2a

Note:

1. Implement size/ERPM (Engine RPM) & gear selection may vary as per geographic conditions
2. Operate tractor between 1700-2300 for safe and economic operation.

TECHNICAL SPECIFICATIONS

6.2.2 MATCHING IMPLEMENTS FOR 26

Sr. No.	Implements	Parameter	Size	Gear	ERPM
1.	 <p>Rotavator</p>	Maximum no. of blades-Lblade,Jblade Maximum Width L or J Blade - cm (in) Length of one L-blade - cm (in) Height of one L-blade - cm (in) Maximum weight - kg (lbs.)	20,28 105 (41.3) 7 (2.8) 0.6 (0.23) 150 (330)	L1,L2,L3	2000-2100 540PTO-1 RPM @ 2080 ERPM
2.	 <p>Cultivator (Spring loaded)</p>	Maximun no. of tynes Maximum height of cultivator from ground - cm(in) Maximum Width - cm(in) Width of one tyne - cm(in) Height of one tyne - cm(in)	7 45 (17.7) 145 (57) 5 (1.9) 8.5 (3.3)	H1	2100-2500
3.	 <p>Disc Harrow</p>	Maximum no. of discs Maximum Width - cm (in) Disc diameter - cm (in) Maximum weight - kg (lbs.)	5x5 83 (33) 46 (18) 130 (286)	H1	2100-2500
4.	 <p>Sprayer</p>	Maximum tank capacity - Lts (U.S. gals)	600 (160)	H1	2000-2100 540PTO-1 RPM @ 2080 ERPM
5.	 <p>Trailer</p>	Dimensions of trolley(LXBXH) - cm (in) Height of trolley from ground, with trolley tyre size-105/80R14 - cm (in) Maximum gross weight - kg (lbs.)	180x90x50 (70.9x35.4 x19.7) 180 (70.9) 2000 (4400)	H3	As per customer practice

Note: Implement size/ERPM (Engine RPM) & gear selection may vary as per geographic conditions

Table 6.2b

TECHNICAL SPECIFICATIONS




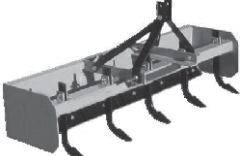

Sr. No.	Implements	Parameter	Size	Gear	ERPM
6.	Rear Lawn Mower 	Maximum cutting width - cm (in) Maximum weight - kg (lbs.)	122 (48) 130 (286)	H1,H2	2000-2300
7.	Flail Mower 	Maximum cutting width - cm (in)	110 (43.3)	H1,H2	2000-2300
8.	Rotary Cutter 	Maximum cutting width - cm (in) Maximum weight - kg (lbs.)	110 (43.3) 130 (286)	H1,H2	2000-2100 540PTO-1 RPM @ 2080 ERPM
9.	Box Blade 	Maximum cutting width - cm (in) Maximum weight - kg (lbs.)	125 (49.2) 150 (330)	H1,H2	2000-2300
10.	Bottom Plough 	Maximum Size - in	14x1	L1,L2,L3	2000-2300

Table 6.2b