



M96SHDM MUDDER Specialty AG Tractors

MUDDER Tractor Competitive Comparison

MODEL		Kubota M96SHDM Mudder	New Holland TD5050 High Clearance	John Deere 5095MH High Clearance
Engine	Engine Manufacturer	Kubota	New Holland	John Deere
	Engine	V3800DI-T	NEF	JD PowerTech M4045
	EPA Emission level	Tier III	Tier III	Tier III
	PTO HP (kw) @ Rated RPM	84 (62.6) @ 2600	80 (59.7) @ 2500	80 (59.7) @ 2200
	Aspiration	Turbocharged / Intercooled	Turbocharged & Intercooled	Turbocharged
	Displacement cu in (liters)	230 (3.8 L)	274 (4.5L)	276 (4.5 L)
	Number of Cylinders	4	4	4
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	Aspiration	Turbocharged w/Wastegate	Turbocharged and Intercooled	Turbocharged
	Maximum torque ft. lbs.	238 @ 1500 rpm	346 @ 1500 rpm	372 @ 1600 rpm
	Injection type	E-CDIS (Emission-Center Direction System)	Direct	Direct
	Multi-Valve System (16 Valves)	Yes	No	No
Alternator, Amp	45 (80 optional)	120	70	
Fuel Tank Capacity gal (liters)	46.2 (175)	23.8 (90)	30.3 (114.7)	
Drive train	Manufacturer's Description	Swing-Shift	Mechanical-Shuttle	Synchro-Shuttle (Power-Reverser Opt)
	Shuttle Lever / Type	Left Hand / Hydraulic	Left Hand / Mechanical	Right Hand / Mechanical Left Hand / Elec-Hyd. Optional
	Speeds	24F / 24R w/creep 4 speed synchronized and Hi/Lo Swing shift adding 4 more synchronized speeds in main shift. Plus Auxillary Hi/Lo Range	20F / 12R with Creep Speed	PowerReverser 32F X 16R with Creep Speed
	Forward / Reverse Speeds w/ Creeper	24F / 24R	20F / 12R	12F / 4R (16F X 16R or 32F X 16R Opt.)
	Clutch	Wet Main Clutch (Multi-Plate)	Dry	Dry
	Transmission Clutch Diameter, in	7 discs, 5.23" clutch discs	12" (305 mm)	IFNA
	Brake Type	Wet multi disc	Wet Disc	Wet Disc
	Main Clutch Type	Multi-Plate Wet Clutch	Dry 12" (305 mm) Ceremetallic Disc	Dry Ceremetallic Disc Wet Clutch on PowerReverser
	Brake Operation	Hydraulic	Hydraulic	Hydraulic
	Final Drives	Outboard planetary front and rear axle	Outboard planetary front and rear axle	Outboard planetary front and rear axle
	Differential lock	Mechanical Differential Lock Front and Rear Axles	Front axle limited slip Rear axle mechanical lock	Front axle limited slip Rear axle mechanical lock
	4WD Front Axle	Bevel Pinion	Universal Joint	Universal Joint
Wide Axle Tread Spacing for front and rear axles, Optional	Wide axle spacers move the bevel gear housing outward. This design maintains open crop clearance under the front axle by retaining the gear housing inside the wheel dish	Wide row spacing is obtained by turning out the wheel dish. Therefore the Universal Joint gear housing remains exposed hanging over the crops.	Wide row spacing is obtained by turning out the wheel dish. Therefore the Universal Joint gear housing remains exposed hanging over the crops.	
Power Steering	Hydrostatic Power Steering	Hydrostatic Power Steering	Hydrostatic Power Steering	
PTO	PTO Type	Hydraulic Independent	Mechanical Independent	Mechanical Independent
	Speeds @ Engine RPM	540 @ 2205	540 @ 2199	540 @ 2100 (540E @ 1600)
	540/1000 PTO's	Optional	Optional	Optional
	Clutch Type	Wet multi plate clutch pack	11" (280 mm) Dry Organic Disc	Dry Disc
Hydraulic System & Three Point Hitch	Category Hitch	Cat II	Cat II	Cat II
	Draft control sensing	Top Link / Mechanical	Lower Link / Mechanical	Top Link / Mechanical
	Type	Open Center	Open Center	Open Center
	Standard Pump Flow gpm (l/min)	17.2 (65)	16.1 (60.9 l/min)	18.4 (69.7)
	System Pressure psi (k/sq.cm)	2845 (200)	2755 (194)	2828 (199)
	Lift Link Ends	Telescoping	Telescoping	Rigid Link ends
	Stabilizers	Telescoping	Telescoping	Telescoping
	Remote Valves Std (optional)	1 (2 or 3 optional)	1 (3 optional)	None, (1 - 3 Optional)
Instrumentation	Hitch Category	Category II	Category II	Category II
	SAE Lift Capacity lb (kg)	4630 (2100) std / 7490 (3400) Optional	5025 (2279 kg)	3595 (4,498 Optional)
Dimensions Tread Settings	Type of Instrument Cluster	Analog with LCD Display	Analog and digital combo	Analog and digital combo
	Front Axle in.	61.6 & 65.6 (80 inch wide row kit is optional provides 72.0 - 76.0 - 80.0)	61.7 - 81.9	52.8 to 80.1
	Rear Axle in.	60.0 - 64.0 (Optional wide kit provides 72.0 in. - 80.1 in.)	59.2 - 79.6 Standard 72.2 - 83.8 w/spacer wide track	52.8 to 80.1
	Front Axle Clearance in. (mm)	30.3 (770)	IFNA	23.4 (595)
	Crop Clearance in. (mm)	27.3 (693)	24.6 (625)	IFNA
	Min. Ground Clearance in. (mm)	25.8 (655)	IFNA	IFNA
	Drawbar height in. (mm)	28 (710)	IFNA	IFNA
	Wheelbase	95.3 (2420)	91.8 (2332)	85.6 (2178)
	Weight	8000 (3629)	7804 (3540)	7100 (3220)
Travel Speeds w/Std tires	Slowest Creep Speed MPH	0.12 @ rated speed / 0.10 @ 540 PTO Speed	0.15 @ 2500 RPM	0.18 @ 2200 RPM
	Creep speeds	0.12, 0.15, 0.19, 0.23, 0.29, 0.37, 0.46, 0.56	0.15 - 17.5	0.18, 0.23, 0.27, 0.33, 0.45, 0.57, 0.70, 0.83
	Low Range @ rated speed MPH	0.66, 0.84, 1.03, 1.27, 1.62, 2.07, 2.55, 3.12,	IFNA	A Range: 1.19, 1.5, 1.81, 2.18 / B Range: 2.81, 3.56, 4.37, 5.18
	High Range @ rated speed MPH	3.32, 4.22, 5.20, 6.38, 8.16, 10.39, 12.80, 16.90	IFNA	C Range: 6.87, 8.81, 10.68, 12.75 / D Range: 10.62, 13.62, 16.50, 19.68
	Formula Calculating Travel Speeds w/Optional Tires	13.6-38 Standard tire size: With optional tires multiply standard speeds: > 106% for 230/85R48 > 109% for 12.4R46 For operating at 540 PTO Speed, multiply travel speeds by 85%.	IFNA	230/95R40 Standard tire size: With optional tires multiply standard speeds: > 13.6-38 Optional multiply 109%
Tires	Standard Tire Size	13.6 - 38	13.6R38 R1W	230/95R40 R1W
	Optional		9.5R44	
	Optional	320/65R48	9.5R48	13.6-38 R1W
	Optional	12.4R46	320/80R42	N/A