

BID SPECIFICATIONS

M8540DTNH1 Narrow Specialty Tractor (Updated March 11, 2009)

4 WHEEL DRIVE

M8540DTNH1 = Hydraulic Shuttle, Four wheel drive with Mid-Mount Foldable ROPS, Narrow, Bi-Speed Turn

ENGINE

Make and Model	Kubota, V3800 (Multi-Valve design with two intake and two exhaust valves, internally balanced)
Type	Liquid Cooled C-DIS, Meets EPA Tier III Emission Regulations 4 Cylinder, Diesel, Turbo-Charged w/Waste Gate valve, Direct Injected, EGR (Exhaust Gas Recirculation)
Engine hp, gross	89.4 hp (66.7 kW) @2600 rpm
Engine hp, net	85.5 hp (63.7 kW) @ 2600 rpm
Engine hp, PTO	76 hp (56.6 kW) @ 2600 rpm
Torque Rise	35% on the PTO
Maximum torque	208.7 ft lbs @ 1300 - 1500 rpm
Bore and Stroke	3.9 in x 4.7 in (100 mm x 120 mm) Linerless cylinder block
Displacement	230 cu in
Fuel per hour	2.85 gal @ 75% load, 3.80 gal at maximum load (Per EPA Certified Test Data)
Fan	Direct drive
Air cleaner	Dry Dual Paper Element
Lubrication	Forced Lubrication
Governor	Ball type governor
Injection pump	Piston type fuel injection pump
Fuel filter	Replaceable cartridge type fuel filter
Oil filter	Spin on oil filter
Exhaust	Down exhaust
Throttle	Hand and foot operated throttle

COOLING SYSTEM

Radiator	Heavy duty pressurized radiator with recovery tank
Water pump	Positive water pump

CAPACITIES

Fuel Tank	60 Liters (15.9 US gal)
Cooling System	9.0 Liters
Engine Oil	10.7 Liters
Transmission	52 Liters (13.7 US gal)
Front axle	Front diff: 5.0 Liters, Final drive: 3.0 Liters each

AXLE LOAD RATINGS (Maximum)

Front	TBA
Rear	TBA

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Main Clutch	Wet Clutch Multi-plate
Clutch material	Metallic
Size	Quantity 4, 6.14" clutch discs
Shuttle	Hydraulic shuttle
Transmission	4 Speed w/Hi-Low Range - Fully Synchronized main transmission
Speeds	8 Forward x 8 Reverse Standard
	Cassette type creep speed adds four more speeds Optional
Differential Lock	Standard on rear axles
Final drive type	Inboard Planetary
Brakes	Mechanically operated, Multi-Plate Wet Discs (Continuous oil flow from hydraulic system)
PTO System	Live-Hydraulic Independent PTO
	Sixty degree shaft rotation is obtainable for easy hookup, with the engine off
	540 rpm @ 2035 Eng. rpm, PTO shaft is 1 3/8" SAE 6 spline
PTO Clutch	Multi-Plate wet clutch pack, features self-modulating engagement and self-activating brake

FRONT AXLE

Steering	Hydrostatic Power Steering
Type	Bevel Pinion type, Cast Iron case

HYDRAULIC SYSTEM

System Type	Gear Pumps / Open Center
Pump Output Total	17.1 gpm (64.7 l/min)
Available hydraulic flow	11 gpm (41.6 l/min) @ 2770 psi
Power steering	6.1 gpm (23.1 l/min)
Remote Valves	3 Max., 1 st Valve is Standard, SCD (Self Canceling Detent) type, 2 nd & 3 rd opt. SCD or FD Float type
Set up sequence	1 Standard w/Self Canceling Detent, 2 nd or 3 rd optional SCD or FD (Float detent)

THREE POINT HITCH

3-Point Hitch	Category I with Category II Link Ends
Controls	Position with Draft and Mix Control
Draft type	Top link sensing
Right link adjustment	Turnbuckle type
Lift Arms	Fixed link ends, adjustable stabilizers for hitch arms.
Lift Capacity at lift points	4200 lbs
24" Behind lift points	3307 lbs

DRAWBAR

Specifications	Max. Tongue weight 2200 lbs., Dimension = 1.25" thick x 2.5" wide, takes 1.25" drawbar pin
Type	Swinging
Positions	One position

ELECTRICAL

System	12 volt electrical system
Battery	12 volt battery 900 CCA
Alternator	45 Amp (80 Amp optional)
Cold temperature starting aid	Thermo Pre-Heat System CSA approved block heater (option)

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INSTRUMENTATION

Gauges	Fuel, Engine Temp., Engine Tachometer w/hour meter
Easy Checker	Low Engine oil pressure, Low fuel indicator light at 5.3 gallon
	Battery charge indicator light
	PTO Indicator light. PTO engaged the Indicator light is on
	LCD Monitor for Travel speed, and PTO RPM

SAFETY EQUIPMENT AND LIGHTS

ROPS Models	Certified two post mid-mount foldable ROPS with retractable seat belt
Head Lights	2 Halogen Head Lights with High/Low Beam and 2 Halogen side lights
Rear Light (ROPS Model)	1 Rear Work Light (Optional)
Safety Flashers	2 Front and 2 Rear Safety flashers with Turn Signals
Switches	Safety start switches
Parking	Parking brakes
SMV	Slow moving vehicle sign, standard

DIMENSIONS

Height Top of Steering Wheel	56.0 in
Overall Length	138.0 in.
Tread Width/front	41.3 in
Tread Width/rear	37.1 in – 56.2 in
Wheelbase	80.7 in
Crop Clearance	14.8 in (Minimum / front axle)
Ground clearance	12.2 in (Minimum / drawbar bracket)
Turning Radius with brake	(Engaged), 10.5 ft
without brake	(Engaged), 13.8 ft
Weight Setup*	4343 lbs
Field Ready*	6189 lbs
Field Ready includes: maximum 10 front weights and rear calcium @ 3 1/2 lbs (308 lbs per tire)	

TOW RATING

Maximum	11000 lbs without trailer weight
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TIRES

Standard	Front	8.0 - 16 R1
	Rear	12.4 - 24 R1
Optional	Front	9.5 - 16 R1
	Rear	14.9 - 24 R1

TRAVELING SPEEDS (at Rated Engine RPM with Std. 12.4 - 24 tires)

Range	Main gear	Travel speed	
	Shift lever	Forward	Reverse
Creep (if equipped) km/h (mph)	1	0.28 (0.17)	0.28 (0.18)
	2	0.40 (0.25)	0.40 (0.25)
	3	0.53 (0.33)	0.54 (0.33)
	4	0.72 (0.45)	0.73 (0.45)
Low km/h (mph)	1	2.0 (1.20)	2.0 (1.20)
	2	2.8 (1.70)	2.8 (1.80)
	3	3.7 (2.30)	3.8 (2.30)
	4	5.1 (3.10)	5.1 (3.20)
High km/h (mph)	1	7.6 (4.70)	7.7 (4.80)
	2	10.8 (6.70)	10.9 (6.80)
	3	14.4 (9.00)	14.6 (9.10)
	4	19.6 (12.20)	19.8 (12.30)

NOTES

Specifications are with standard tires. The company reserves the right to change the specifications without notice.

Permanently installed English instructions, diagrams and warning labels (decals) are used to ensure efficient operation and servicing with maximum safety.

MANUALS Parts and Service manuals are available through Kubota

WARRANTY Basic: 24 months or 2000 hours

Extended Powertrain: 36 months or 2000 hours

Powertrain Purchasable: 60 months or 5000 hours with deductible per repair