

BID SPECIFICATIONS

M8540DTNHC Narrow Cab Specialty Tractor (Updated March 11, 2009)

4 WHEEL DRIVE

M8540DTNHC = Hydraulic Shuttle, Four wheel drive with Cab, 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 @ 1400 - 1600 rpm
Bore and Stroke	3.9 in x 4.7 in (100 mm x 120 mm) Linerless cylinder block
Displacement	230 cu in (3769 cc)
Fan	Direct drive
Air cleaner	Dry Dual Paper Element
Lubrication	Forced Lubrication
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	76 Liters (20.1 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

BID SPECIFICATIONS**M8540DTNHC Narrow Cab Specialty Tractor (Cont.)****DRIVE TRAIN**

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
PTO System	Electric engagement, Live-Hydraulic Independent PTO
	Sixty degree shaft rotation is obtainable for easy hookup, with the engine off
	540 rpm @ 2160 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 type
Set up sequence	1 Standard w/Self Canceling Detent, 2 nd or 3 rd optional SCD type

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	4189 lbs (1900 kg)
24" Behind lift points	3307 lbs (1500 kg)

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	60 Amp (80 Amp optional)
Cold temperature starting aid	Thermo Pre-Heat System CSA approved block heater (option)
Accessory plug	One 12 Volt - 15 Amp, lighter style and one 12 Volt - 15 Amp, two pin type
	12 Volt - 30 Amp standard type three pin electrical connector for monitors
Trailer plug	7-pin electrical trailer connector

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INSTRUMENTATION

Gauges	Fuel, Engine Temp., Engine Tachometer,
Easy Checker	Low Engine oil pressure, Low fuel indicator light at 12 litres
	Battery charge indicator light
	PTO Indicator light. PTO engaged the Indicator light is on
	Hour Meter, LCD Monitor for Travel speed, and PTO RPM

SAFETY EQUIPMENT AND LIGHTS

Cab Model (Safety)	Certified ROPS cab, retractable seat belt
Head Lights	2 Halogen Head Lights with High/Low Beam
Tail light	2 tail lights standard
Work Lights (Cab Model)	2 Halogen front work lights & 2 Halogen side lights, 2 Halogen rear work lights standard
Safety Flashers	2 Mid (pivoting) and 2 Rear Safety Flashers with Turn Signals
Horn	Horn standard
Switches	Safety start switches
Parking	Parking brakes
SMV	Slow moving vehicle sign, standard

DIMENSIONS

Height, Top of cab	89.0 in
Overall Length w/3pt hitch	136.0 in.
Tread Width/front	41.3 in
Tread Width/rear	37.2 in – 54.5 in
Wheelbase	80.7 in
Crop Clearance	14.6 in (Minimum / front axle)
Ground clearance	12.2 in (Minimum / drawbar bracket)
Turning Radius without brake	(Bi-Speed Engaged), 11.5 ft
Weight	4806 lbs (2180 kg)

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	See your Kubota Whole Goods Price List for more tire options and details.
	Rear	

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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)

CAB FEATURES

General:	Newly designed Cab, Integral factory ROPS certified
	Curved rear corner windows open for vents
	Vinyl seat with mechanical suspension
	Dome light
AC/Heat:	3-position fan speed, High Capacity A/C
	Recirculation / Fresh air selection
Others:	Tilt steering
	Left hand outside mirror (Right hand side optional)
	Tinted glass
	Front wiper w/washer standard
	Radio ready cab (Speakers and antenna factory installed)
Options:	AM/FM Stereo cassette or CD Player with AM/FM stereo radio Both have a 7-Channel weather band (Radios are Optional)
	Rear wiper w/washer
	Rear window defogger (rear window),
	Rear window defogger (corner windows)
	Right hand outside mirror
Hard mount location:	80 amp alternator
	Right center post

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