

BID SPECIFICATIONS

L45 Loader / Landscaper Utility Tractor

ENGINE		(Updated March 26, 2009)
Make and Model	Kubota, V2203-M, Interim Tier IV	
Type	Liquid Cooled, 4 cylinder diesel E-TVCS (Emission-Three Vortex Combustion System) Indirect Injection	
PTO hp	32.0 hp (23.3 kW) @ 2700 rpm	
Engine hp (gross)	45.0 hp (33.6 kW)	
Engine hp (net)	42.5 hp (31.7 kW)	
Bore and Stroke	3.43" x 3.64" (87 mm x 92.4 mm)	
Displacement	134.1 cu in (2197 cc)	
Lubrication	Forced lubrication	
Cooling System	Forced flow, pressurized radiator with pre-cleaner screen	
Radiator Fan	Radial airflow	
Air cleaner	Dual element air filter, paper type dry, heavy particle self purging	
Fuel Filter	Replaceable cartridge type fuel filter	
Oil Filter	Spin on oil filter cartridge	
Muffler	Enclosed spark arrestor muffler	
Engine compartment	Fully enclosed and screened engine compartment with easy access hood	
Throttle	Hand control, right side-mounted for loader and / or backhoe operation and Auto Throttle Advance	
Fuel Shutoff	Key switch activated engine stop mechanism	
CAPACITIES		
Fuel Tank	45 liters (11.9 US gal)	
Cooling System	6.5 liters	
Engine Oil	8.2 liters	
Transmission and Differential	46 liters (12.2 US gal)	
Front Differential Case	7 liters	
DRIVE TRAIN		
Front Axle	Heavy duty, bevel gear type, 4 wheel drive	
Type	Bevel gear cast iron, single piece front axle with fixed tread spacing	
Input shaft type	Spline shaft power transfer from transmission	
Transmission	HST Plus Transmission, with Load Sensing (3 modes), HST Response Control, Hydro Dual Speed & Crawl Control Mode	
Control type	Electronically Controlled Hydraulic Servo-Control	
Foot control	Single pedal, toe-heel operation	
Speed Range	3 Mechanical Range Plus Hydro Dual Speed = Total 6 speed	
Differential Lock	Rear axle, mechanical, left heel engagement pedal	
Final Drive	Helical gear, flange type	
Brakes	Mechanical, Wet disc with lockable steering pedals	
Frame	A reinforced integral main frame absorbs twisting loads during loader and backhoe operation	
PTO SYSTEM		
Type	Hydraulic, Independent, rear	
	540 rpm @ 2590 rpm, 1 3/8" SAE, clockwise rotation	
PTO Shield	Flip-up type standard equipment	

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HYDRAULICS	
System	Open Center
Pump Type	2 x Gear Type
Total Output	18.4 gpm (69.7 L/min)
Tractor Rear Remote / optional	11.8 GPM (44.7 L/min)
Loader 3 rd Function / optional	11.8 GPM (44.7 L/min)
Backhoe Service Port	11.8 GPM (44.7 L/min)
Filter	Spin-on, treated paper element
3-Point Hitch	Optional, Category I
Position Control	Hydraulic, single lever, right side-mounted
Lift Capacity: At Lift Points	3860 lbs (1750 kg)
24" Behind L.P.	2756 lbs (1250 kg)
Steering	Integral, hydrostatic power steering. Easy-step tilt steering wheel.
ELECTRICAL	
Battery (Maintenance Free)	12 VDC, 582 CCA
Alternator	12 VDC, 45 amp
Engine shut-off	Electric key shut-off
Cold temperature starting aid	Glow plugs for cold weather starts CSA approved block heater (option)
IntelliPanel™	Leading edge communication system that incorporates travel speed, digital readout, service interval reminder, self diagnosis and communicates with the operator
Lights	Two 55 W halogen front work lights, Two 55 W halogen rear work lights, ROPS mounted turn signals / 4-way flashers
COOLING SYSTEM	
Radiator	Heavy duty pressurized radiator with reserve tank and pre-cleaner screen
Air flow type	Radial air flow with suction fan
Cooling system	Water pump, Pressurized forced-circulation
SAFETY EQUIPMENT	
ROPS / FOPS	Four-post ROPS certified OSHA FOPS certified OSHA with retractable seat belt
Safety Start System	Standard equipment
Operator Presence Controls	Standard equipment
Operator's Seat	Reversible seat, spin in place. Seat also rotates 17° / right side.
Operator's Manual Storage	Standard equipment
Engine Throttle From Backhoe Position	Standard equipment
Parking Brakes	Standard equipment
Grab Handles for Entry / Exit	Standard equipment
Non-slip Entry / Exit Surfaces	Standard equipment
High Visibility Paint	Standard equipment
Slow Moving Vehicle Sign	Standard equipment
Lights	Two front work lights, Two rear work lights, ROPS mounted turn signals / 4-way flashers
Backup Alarm	Standard equipment

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DIMENSIONS							
Height to top of ROPS		95.1" (2415 mm)					
Length (including loader & backhoe)		233.7" (5936 mm), Transport Position					
Overall Width (rear axle)		72.5" (1841 mm)					
Wheelbase		72.5" (1841 mm)					
Turning Radius (without brake)		11.2' (3.4 m)					
Turning Radius (with brake)		9.5' (2.9 m)					
Minimum ground clearance		14.4" (365 mm) @ transmission case					
Tire Size – Standard	Front	27 x 10.50 – 15 R4 Ind					
	Rear	15 – 19.5 R4 Ind					
Tread Width	Front	45.9" (1165 mm)					
	Rear	56.1" (1426 mm)					
Weight:	L45TL	5,268lbs (2390 kg)					
	L45TLB	7,173 lbs (3254 kg)					
TRAVELING SPEEDS (With standard industrial tires)							
		Low Range		Medium Range		High Range	
		Km/h	MPH	Km/h	MPH	Km/h	MPH
Forward	H-DS Lever "L"	3.1	1.9	6.3	3.9	13.4	8.3
	H-DS Lever "H"	5.2	3.2	10.6	6.6	22.5	14.0
Reverse	H-DS Lever "L"	2.8	1.7	5.7	3.5	12.1	7.5
	H-DS Lever "H"	4.7	2.9	9.5	5.9	20.2	12.6
TIRES							
STANDARD TIRES - INDUSTRIAL							
Front		27 x 10.50 – 15 R4 Industrial					
Rear		15 – 19.5 R4 Industrial					
OTHER							
Instruction Identification		Permanently installed English instructions, diagrams and warning decals, to ensure operation and servicing with maximum safety.					
Manuals		One operator's manual included with unit. Parts and Service manuals are available through Kubota.					
Note		The company reserves the right to change specifications without notice.					
Warranty		Basic: 12 months, No hour limit					
		Extended Powertrain: 24 months or 1500 hours					

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TL1000A-2 LOADER

Slanted Boom Design	Follow the profile of the tractor, improve visibility	
Enclosed Hydraulic Hoses	Improved visibility and durability	
High Performance Control Valve	Built-in right side consol, greater control, productivity	
Control Valve Type	One detent float position, power beyond circuit	
Auto-Leveling Mechanism	Hydraulic self leveling (on/off position)	
Quick Attach System	Skid Steer type quick coupler	
Front Grill Guard	Standard	
Lift capacity to max height, 500 mm forward	2063 lbs (936 kg)	
Lift capacity to max height at pivot pin	2848 lbs (1292 kg)	
Breakout force at pivot pin	4531 lbs (20153 N)	
Maximum lift height to pivot pin	113.9" (2893 mm)	
Clearance with bucket dumped	90.0" (2287 mm)	
Reach at maximum height	16.8" (426 mm)	
Maximum dump angle	44 degrees	
Reach with bucket on ground	68.5" (1739 mm)	
Bucket rollback angle	48 degrees	
Digging depth	3.5" (89 mm)	
Overall height in carrying position	55.2" (1402 mm)	
Hyd. Flow, 3 rd Function Valve (Optional)	11.8 GPM	
Bucket	72.0" (1829 mm)	
Net Weight of TL1000A-2	960 lbs (435 kg)	
Cycles Time (Seconds)	Raising time	3.2 (3.6 w/self level ON)
	Lowering time	2.9 (5.8 w/self level ON)
	Bucket dumping time	2.2
	Bucket rollback time	1.9
OPTIONAL EQUIPMENT:		<ul style="list-style-type: none"> •Reversible bolt on cutting edge for 72" std bucket •3rd function valve •Bale spear •Pallet fork
LOADER BUCKET (standard):		
Model	Heavy Duty, Round Back, 72"	
Type	Quick Attach, Skid Steer Type	
Width	72.0" (1830 mm)	
Depth	18.5" (470 mm)	
Height	26.0" (660 mm)	
Length	24.0" (610 mm)	
Capacity	Struck	12.7 cu-ft (0.36 m3)
	Heaped	15.5 cu-ft (0.44 m3)
Weight	420 lbs (190 kg)	

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BT1000A BACKHOE		
Quick Attach Backhoe	4-point rigid mount / quick connect. Optional 3pt hitch Cat I linkage stored on machine	
Curved Boom	Clears obstacles, improves soil placement	
Thumb Bracket	Standard equipment	
Enclosed Hydraulic Hoses	Improved visibility and durability	
High Performance Inching Valves	Greater control, productivity. Sound level reduced	
Compact Valve Cover	Greater visibility, operator's space	
Seat	Common seat for tractor, loader and backhoe operation	
Engine Throttle For Backhoe Operation	Common throttle for backhoe and loader operation, located on operator's left side when in backhoe seating position	
Backhoe Crawling Mode	Allows to move at creep speed (repositioning)	
Boom Swing Mechanism	Trunion, Twin Cylinder	
Digging Force Using Bucket Cylinder	5825 lbs (25910 N)	
Digging Force Using Dipper Stick Cylinder	3779 lbs (16810 N)	
Transport Height	106.3" (2700 mm)	
Stabilizer Spread, Transport	67.2" (1707 mm)	
Stabilizer Spread, Operating	89.3" (2268 mm)	
Ground Clearance	12.3" (312 mm)	
Overall Width	71.2" (1809 mm)	
Digging Depth, Maximum	121.0" (3073 mm)	
Digging Depth, 2 Ft. Flat Bottom	120.0" (3048 mm)	
Digging Depth, 8 Ft. Flat Bottom	102.2" (2596 mm)	
Operating Height Fully Raised	157.2" (3993 mm)	
Loading Height	91.3" (2319 mm)	
Loading Reach	58.7" (1491 mm)	
Reach From Swing Pivot Point	160.9" (4087 mm)	
Swing Pivot to Rear Axle Centerline	38.0" (965 mm)	
Bucket Rotation	180 degrees	
Leveling Angle	10.0 degrees	
Swing Arc	180 degrees	
Angle of Departure per SAE J1234	19.2 degrees	
Auxiliary Hydraulic Valve (Std on BT1000AV)	11.8 GPM	
Net Weight of BT1000A with 24" bucket	1660 lbs (753 kg)	
Cycles Time (Seconds)	Boom cylinder, extend	4.8
	Boom cylinder, retract	6.4
	Swing cylinder, from 90° to center	2.4
	Dipperstick cylinder, extend	4.2
	Dipperstick cylinder, retract	3.0
	Bucket cylinder, extend	3.0
	Bucket cylinder, Retract	2.1
	Stabilizer cylinder, max height to ground	2.3
	Stabilizer cylinder, ground to max. height	2.0
OPTIONAL EQUIPMENT:	<ul style="list-style-type: none"> •Pin-on buckets - 12", 16", 18", 24", 30", 36" •Quick attach buckets – 12", 16", 18", 24", 30", 36" •Backhoe Stabilizer Flip Pads/Rubber •Remote valve kit for backhoe (Standard on BT1000AV) •Hydraulic Thumb •Hydraulic Breaker 	

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BT1000A BACKHOE (Continued)

BACKHOE BUCKET: (Pin-on type)

Model	SAE Struck Capacity cu-ft (m3)	SAE Heaped Capacity cu-ft (m3)	Number of Teeth	Weights lbs (kg)
Trenching 12"	1.59 (0.045)	1.92 (0.054)	3	152 (69)
Trenching 16"	2.23 (0.063)	2.82 (0.080)	4	168 (76)
Trenching 18"	2.55 (0.072)	3.29 (0.093)	4	176 (80)
Trenching 24"	3.50 (0.099)	4.73 (0.134)	5	205 (93)
Trenching 30"	4.46 (0.126)	6.20 (0.176)	6	238 (108)
Trenching 36"	5.41 (0.153)	7.67 (0.217)	7	267 (121)
Cemetery 36"		4.51 (0.128)	7	252 (114)

BACKHOE BUCKET: (Quick attach type)

Model	SAE Struck Capacity cu-ft (m3)	SAE Heaped Capacity cu-ft (m3)	Number of Teeth	Weights lbs (kg)
Trenching 12"	1.38 (0.039)	1.65 (0.047)	3	162 (74)
Trenching 16"	1.89 (0.054)	2.40 (0.068)	4	187 (85)
Trenching 18"	2.16 (0.061)	2.80 (0.079)	4	197 (90)
Trenching 24"	2.94 (0.083)	3.95 (0.112)	5	217 (99)
Trenching 30"	3.70 (0.105)	5.10 (0.144)	6	247 (112)
Ditching 30"	3.70 (0.105)	5.10 (0.144)	No teeth	187 (85)
Ditching 36"	4.49 (0.127)	6.25 (0.177)	No teeth	252 (114)