Detailed Specifications





BX23S DETAILED SPECIFICATIONS

			DAZ33 DETAILED 31 ECHTICATIONS		
ENGINE					
Make and Model		Kubota D902			
Туре		Liquid cooled, 4-cycle diesel			
Number of Cylinders		3	}		
Bore and Stroke		2.83 x 2.90 in. (72 x 73.6 mm)			
Total Displacement		54.8 cu.in. (898 cm³)			
Engine hp, gross*1		21.6 HP @ 3200 RPM			
PTO hp			17.7 hp @ 3200 rpm		
Maximum torque		41.4 lbf-ft (56.1 Nm)			
Low idling revolution		1350 to 1550 rpm			
Battery			1350 to 1550 rpm 12 V, CCA: 560 A, RC: 86 min.		
Fuel		Diesel fuel No. 1			
l dei		Diesel fuel No. 2			
Governor		Mechanic	•		
Injection pump		Direct in	•		
Fuel filter system		1-Spin on type fuel filter with water			
Oil filter		Sheet net and replaceable treated			
Exhaust		Underhood exhaust sys	·		
Engine Compartment		Fully enclosed and screened engine of	. ,		
Fuel Shutoff		Electric activated eng	•		
Throttle		Hand operat	ted throttle		
COOLING SYSTEM					
Radiator		Water with pressurized radia	ator, reverse air-flow design		
Water pump		Centri	ifugal		
CAPACITIES					
Fuel Tank			S. gals		
Engine crankcase (with	filter)	6.6 U.S. gals. 3.4 U.S. qts.			
Engine Coolant	intery	3.4 U.S. qts.			
Recovery Tank		0.4 U.S. qts.			
Transmission case		2.98 U.S. gals.			
PTO		2.36 0.	J. gais.		
-	Ch-ft	SAE 1-3/8, 6 splines			
Rear PTO	Shaft				
	Revolution	STD 540 rpm			
Mid PTO		USA No. 5 (Kubota 10-tooth) involute spline STD 2500 rpm			
	Revolution	STD 250	00 rpm		
DRIVE TRAIN					
Front Axle		4WD: Bevel gear front axle, r			
	4WD Drive Shaft	Fully Enclosed, Spline Shaft Power Transfer			
Clutch		Dry type single plate	Dry type single plate - Main clutch 9.45"		
HST		Hydrostatic transmission			
	Speeds	2 Range (L	ow-High)		
	Control Type	Mechanic	al control		
	Foot Control	Single pedal, Toe/Heel or Toe/	Toe forward/reverse operaton		
	Throttle				
Creep Speed		N/A			
Cruise Control		Mechanical lever, infinite speed			
Steering		Integral power steering			
Differential Lock		Rear differential lock standard			
Brakes		Mechanical, wet disc type			
HYDRAULIC SYSTEM					
Type		Onon contact and	m numn gear tyne		
Hydraulic pump output		Open center tandem pump gear type 5.2 gpm			
		5.2 gpm 1.0 gpm			
Power steering pump output					
Total hydraulic flow		6.2 g			
Remote control valve c	oupler (rear:	System	2 valves		
Optional)		Coupler	ISO 7241-1 series A		
Remote control valve c	oupler (front:	System	2 valves		
Optional)		Coupler	ISO 7241-1 series B		
** ***					

^{*1} SAE J1995



Detailed Specifications

•			
THREE-POINT HITCH			
Category	SAE Category 1		
Control Method	Quarter-inching valve		
Draft Control	N/A		
Lift Arms	Rigid lower link ends		
Right link adjustment	Turn Buckle		
Lift Capacity @ Lift Points	1,213 lbs.		
24" Behind Lift Points	680 lbs.		
DRAWBAR			
Tongue weight	Maximum tongue weight 550 lb.		
Туре	Fixed		
ELECTRICAL			
System	Deluxe dash with analog tachometer, temperature gauge, fuel gauge and LCD hour and error message display		
Battery	12 volt battery 560 CCA		
Alternator	40 Amps.		
Engine Shutoff	Electric key shutoff		
Cold temperature starting aid	Glow plugs (Block heater - optional)		
	Fender mounted 4-way flashers for hazard and turn signal		
Lights	Two headlights		
	Two tail lights		
SAFETY EQUIPMENT			
ROPS	Factory certified two post foldable ROPS with retractable seat belt		
Cab	N/A		
Safety start switches	PTO / HST Range (HST) Neutral Switches		
OPC	Operator presence control system, engine shutoff type		
Parking brakes	Single brake pedal, and depress pedal and latch with the parking brake lock pedal		
SMV sign	Slow moving vehicle sign		
Paint	High visibility paint		
DIMENSIONS			
Height to top of ROPS	86.2 in.		
Overall Length	87.0 in. w/o 3-Pt., w/ Front guard		
	99.0 in. w/3-Pt., w/ Front guard		
Overall width (min. tread)	45.1 in.		
Wheelbase	55.1 in.		
Ground Clearance	5.83 in.		
Tread Width Front	36.6 in.		
Rear	32.2 in.		
Turning Radius	7.5 feet		
Base Weight	1,455 lbs.		
TOW RATING			
Maximum	1,765 lbs.		
Max. drawbar load @ hitch	550 lbs.		
WHEELS AND TIRES			
Front Turf/Bar/Industrial	18x8.50-10		
Rear Turf/Bar/Industrial	26x12.00-12		

TRAVEL SPEEDS	FORWARD	REVERSE			
HST Model	Standard	Standard			
Low	0 mph to 4.0 mph	0 mph to 3.1 mph			
High	0 mph to 8.4 mph	0 mph to 6.5 mph			
OTHER	OTHER				
Instruction Identification	Permanently installed English instructions, diagrams, and warning decals, where required by law, to ensure operaton and servicing with				
instruction identification	maximum safety.				
Product Suppoer	duct Suppoer Parts and Service Manuals Available				
Warranty	General: 24 Months or 1500 Hours				

IMPLEMENTS AND ATTACHMENTS

Front Loader

LA340S

Standard with 2-Lever Quick Coupler and 48" bucket

Grille Guard

No tools required to attach and detach loader

Loader valve

LA340

Grille Guard

No tools required to attach and detach loader

Loader valve

48" Pin-on Bucket

Loader Options

BX2414 Bolt On Cutting Edge

BX2412 3rd Function Valve

BX2415 2-Lever Quick Coupler Pallet Fork Frame

B2672 60" Quick Attach Straight Blade w/Manual Angulation

K9184 32" Pallet Forks

BX2411 Bucket Rod Indicator

Backhoe

BT603

Optional Attachments

BT2930A 8" Bucket

BT2931A 12" Bucket

BT2416 16" Bucket

BX9468 Rubber Flip Pads & Street Shoes

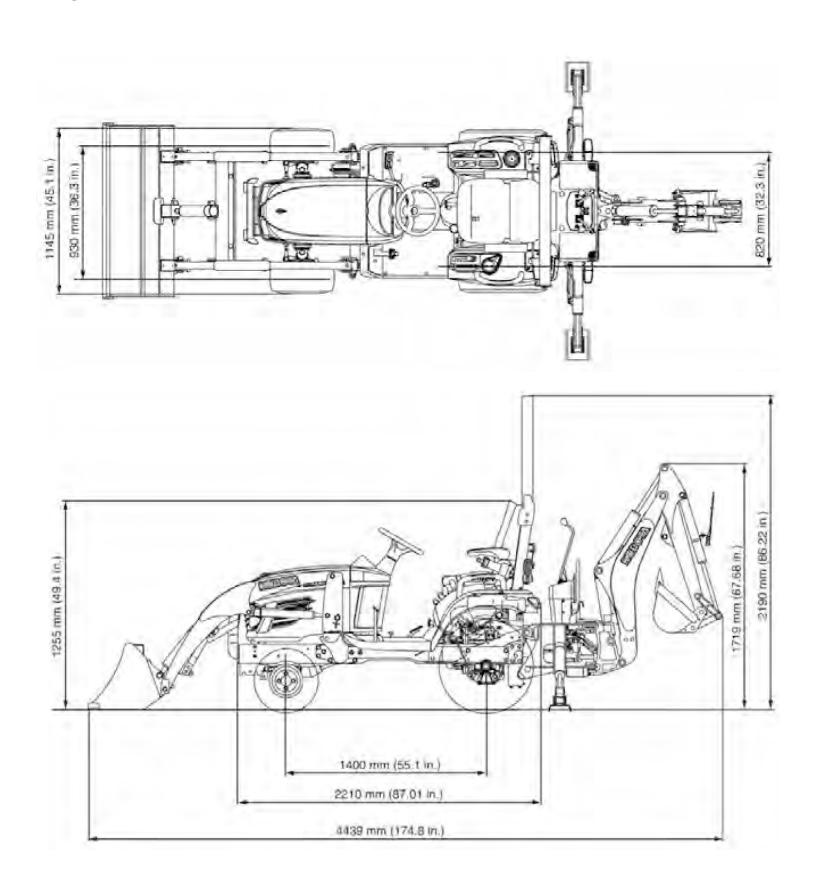
BH6316 Mechanical Thumb

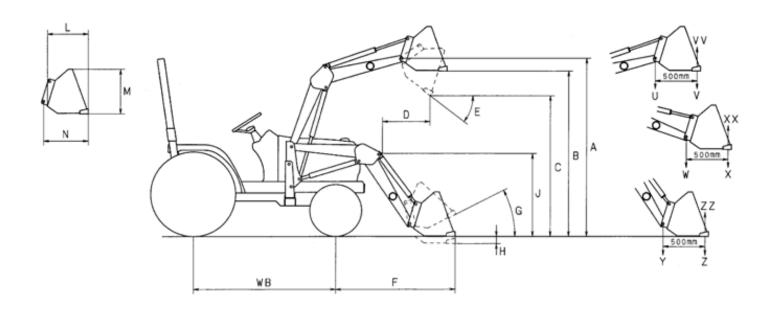
Rear Mounted Implements

BL2789 51" 3-Point Rear Snowblower

B8160 Ballast Box



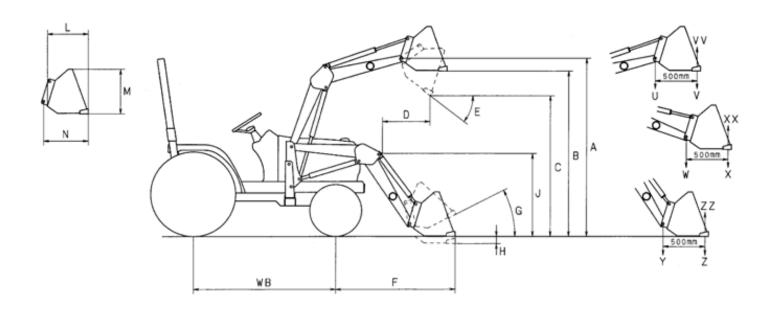




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	Loader model	LA340	LA340S		
	Tractor model		BX23S		
А	Max. lift height (to bucket pivot pin)	1804 mi	m (71.02 in.)		
В	Max. lift height under level bucket	1662 mm (65.43 in.)	1664 mm (65.51 in.)		
С	Clearance with bucket dumped	1323 mm (52.09 in.)	1288 mm (50.71 in.)		
D	Reach at max. lift height (Dumping reach)	646 mm (25.4 in.)	677 mm (26.7 in.)		
E	Max. dump angle 0.785 rad (45°)		5 rad (45°)		
F	Reach with bucket on ground	1392 mm (54.80 in.)	1438 mm (56.61 in.)		
G	Bucket roll-back angle	0.51	0.51 rad (29°)		
Н	Digging depth	125 mm (4.92 in.)	122 mm (4.80 in.)		
J	Overall height in carrying position	990 mi	990 mm (39.0 in.)		



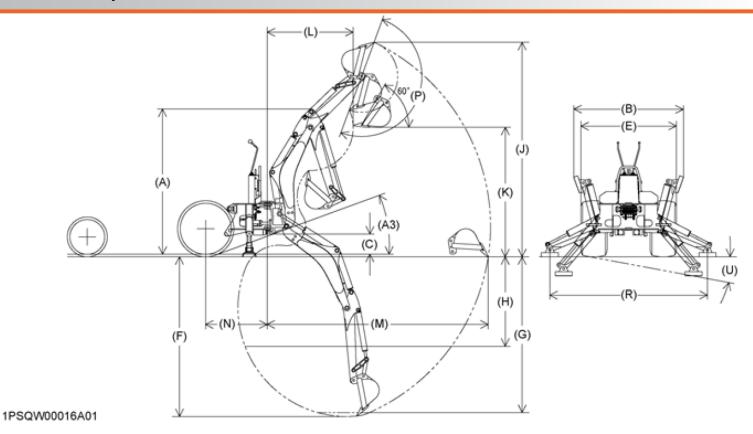


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	Loader model	LA340	LA340S		
	Tractor model	ВХ	BX23S		
U	Lift capacity (Bucket pivot pin, max. height)	335 kg (739 lbs)	278 kg (613 lbs)		
V	Lift capacity (500 mm forward, max. height)	231 kg (509 lbs)	192 kg (423 lbs)		
W	Lift capacity (Bucket pivot pin, 1500 mm height)	372 kg (820 lbs)	317 kg (699 lbs)		
Х	Lift capacity (500 mm forward, 1500 mm height)	268 kg (591 lbs)	229 kg (505 lbs)		
Υ	Breakout force (Bucket pivot pin)	6258 N (1407 lbs)	5719 N (1286 lbs)		
Z	Breakout force (500 mm forward)	4389 N (986.7 lbs)	4008 N (901.0 lbs)		
VV	Bucket roll-back force at max. height	4731 N (1064 lbs)	4431 N (996.1 lbs)		
XX	Bucket roll-back force at 1500 mm height	5557 N (1249 lbs)	5264 N (1183 lbs)		
ZZ	Bucket roll-back force at ground level	5456 N (1227 lbs)	5195 N (1168 lbs)		
Raising time		3.	3 s		
Lowering time		2.	2.5 s		
Bucket dumping time		2.	2.7 s		
Bucket rollbac	k time	2.	2.3 s		

Detailed Specifications

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	Model	BT603
(A)	Transport height	1719 mm (67.68 in.)
(B)	Stabilizer spread-transport	1296 mm (51.02 in.)
(C)	Ground clearance	240 mm (9.45 in.)
(E)	Overall width	1128 mm (44.41 in.)
(F)	Maximum digging depth	1889 mm (74.37 in.)
(G)	Digging depth, 2 ft. flat bottom	1842 mm (72.52 in.)
(H)	Digging depth, 8 ft. flat bottom	1059 mm (41.69 in.)
(J)	Operating height, fully raised	2539 mm (99.96 in.)
(K)	Loading height	1533 mm (60.35 in.)
(L)	Loading reach	1016 mm (40.00 in.)
(M)	Reach from swing pivot	2612 mm (102.8 in.)
(N)	Swing pivot to rear axle center line	726 mm (28.6 in.)
(P)	Bucket rotation	3.14 rad (180°)
(R)	Stabilizer spread-operating	1862 mm (73.31 in.)
(A3)	Angle of departure per SAE J1234	0.351 rad (20.1°)
(U)	Leveling angle	0.19 rad (11°)
Swing arc	•	2.44 rad (140°)

NOTE

[•] The specifications are taken with KUBOTA BX23S tractor. (Tire size: Front 18×8.5-10, Rear 26×12.00-12)



Digging force (Per SAE J49)

With bucket cylinder	8610 N (1936 lbs)		
With dipperstick cylinder	5209 N (1171 lbs)		

Cycle time (Seconds)

Boom cylinder, extend	4.5 s
Boom cylinder, retract	3.7 s
Swing cylinder, from 90 degrees to center	1.5 s
Dipperstick cylinder, extend	4.1 s
Dipperstick cylinder, retract	3.4 s
Bucket cylinder, extend	3.1 s
Bucket cylinder, retract	2.4 s
Stabilizer cylinder, max. height to ground	2.9 s
Stabilizer cylinder, ground to max. height	2.3 s

Hydraulic cylinders

	Boom	Dipperstick	Bucket	Stabilizer	Swing
Rod diameter	3.0 cm (1.2 in.)	2.5 cm (0.98 in.)	2.5 cm (0.98 in.)	2.5 cm (0.98 in.)	3.0 cm (1.2 in.)
Cylinder bore	6.5 cm (2.6 in.)	6.0 cm (2.4 in.)	5.0 cm (2.0 in.)	6.0 cm (2.4 in.)	6.0 cm (2.4 in.)

Bucket sizes

	Width	SAE truck capacity	SAE heaped capacity	Number of teeth	Weight
Trenching 8 in.	20.3 cm (7.99 in.)	0.009 m ³ (0.317 cu.ft.)	0.011 m ³ (0.388 cu.ft.)	2	10 kg (22 lbs)
Trenching 12 in.	30.5 cm (12.0 in.)	0.014 m ³ (0.494 cu.ft.)	0.020 m ³ (0.706 cu.ft.)	3	13 kg (29 lbs)
Trenching 16 in.	40.6 cm (16.0 in.)	0.020 m ³ (0.706 cu.ft.)	0.029 m ³ (1.024 cu.ft.)	3	16 kg (35 lbs)

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