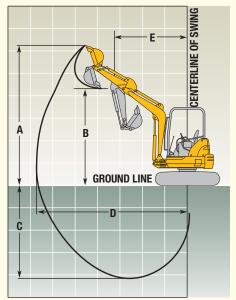
17zts 27zts 35zts 50zts

CONSTRUCTION EQUIPMENT

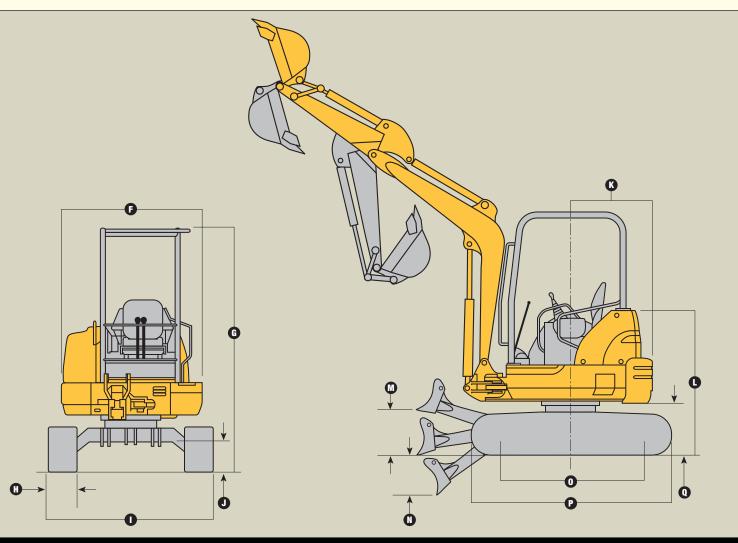
Engine	17 zts	27 zтs	35zts	50zts
Make	lsuzu	Isuzu	Isuzu	Isuzu
Model	3YB1	3LD1	3LD1	4LE1
Fuel	diesel	diesel	diesel	diesel
Cooling	liquid	liquid	liquid	liquid
Displacement		91.5 cu. in. (1.50 L)	91.5 cu. in. (1.50 L)	133 cu. in. (2.18 L)
Horsepower	12.3 hp (9.2 kW) @ 2,300 rpm	22.0 hp (16.2 kW) @ 2,450 rpm	29.0 hp (21.6 kW) @ 2,450 rpm	38.0 hp (27.9 kW) @ 2,000 rpm
Performance				
Operating weight	3,814 lb. (1730 kg)	6,360 lb. (2885 kg)	7,782 lb. (3530 kg)	10,565 lb. (4792 kg)
Maximum travel speed				
Low	1.20 mph (2.0 km/h)	1.50 mph (2.4 km/h)	1.98 mph (3.2 km/h)	1.56 mph (2.5 km/h)
High	2.50 mph (4.0 km/h)	2.94 mph (4.7 km/h)	2.80 mph (4.5 km/h)	2.80 mph (4.5 km/h)
Hydraulic pumps	3 total	3 total	3 total	3 total
Туре	2 piston and 1 gear	2 piston and 1 gear	2 piston and 1 gear	2 piston and 1 gear
Total capacity				
	4.4 gpm (16.80 L/min.) x 2	7.8 gpm (29.40 L/min.) x 2	11.0 gpm (41.63 L/min.) x 2	10.9 gpm (41.40 L/min.) x 2
	3.3 gpm (12.50 L/min.)	4.2 gpm (15.90 L/min.)	6.8 gpm (25.70 L/min.)	7.6 gpm (28.60 L/min.)
	8.9 gpm (33.60 L/min.)	12.0 gpm (45.40 L/min.)	22.0 gpm (83.30 L/min.)	21.9 gpm (82.80 L/min.)
Fuel tank capacity		10.5 gal. (40.0 L)	10.5 gal. (40.0 L)	13.2 gal. (50.0 L)
Hydraulic tank capacity		7.9 gal. (30.0 L)	7.9 gal. (30.0 L)	11.8 gal. (45.0 L)
Ground pressure (with rubber t	track)29.9 kPa (4.34 psi)	29.1 kPa (4.22 psi)	31.2 kPa (4.52 psi)	26.4 kPa (3.82 psi)
Working Range				
Transport length		13 ft. 11.0 in. (4260 mm)	15 ft. 5.0 in. (4720 mm)	17 ft. 5.0 in. (5325 mm)
Arm length		3 ft. 10.0 in. (1170 mm)	4 ft. 2.0 in. (1265 mm)	4 ft. 5.0 in. (1340 mm)
A Maximum digging height	11 ft. 7.0 in. (3530 mm)	13 ft. 11.0 in. (4240 mm)	14 ft. 8.0 in. (4470 mm)	16 ft. 11.0 in. (5145 mm)
B Maximum dumping height		9 ft. 10.0 in. (3000 mm)	10 ft. 2.0 in. (3100 mm)	11 ft. 6.4 in. (3515 mm)
		8 ft. 8.0 in. (2650 mm)	10 ft. 4.0 in. (3150 mm)	11 ft. 9.7 in. (3600 mm)
		15 ft. 5.0 in. (4700 mm)	17 ft. 1.0 in. (5210 mm)	19 ft. 1.0 in. (5816 mm)
• • •	us5 ft. 5.0 in. (1655 mm)	6 ft. 8.0 in. (2040 mm)	7 ft. 9.0 in. (2360 mm)	8 ft. 9.0 in. (2655 mm)
	3,042 lb. (1380 kg)	5,071 lb. (2300 kg)	6,173 lb. (2800 kg)	8,378 lb. (3800 kg)
Arm breakout force		3,329 lb. (1510 kg)	4,299 lb. (1950 kg)	5,512 lb. (2500 kg)
Lift Capacities	<u>-</u> ,	5,5_5 is: (15.5 ivg)	.,=00 .0: (1000 .19)	0,012 121 (2000 119)
Ground level at 10-ft. (3.05 m)				
radius				
Over front, blade down		2,239 lb. (1015 kg)*	2,994 lb. (1358 kg)*	5,480 lb. (2485 kg)*
Over side	` ",	1,010 lb. (458 kg)	1,547 lb. (701 kg)	2,268 lb. (1028 kg)
*Limited by hydraulics.		, (, (
D-1				5N

Drive

Each track is independently driven by a hydrostatic axial-piston motor connected to a two-stage planetary gear reduction box



Swing System	172тѕ	27 zтs	35zTS	50zTS
Swing speed		8.1 rpm	8.8 rpm	7.4 rpm
Boom swing		0.1 .p	0.0 15	
Left	65 degrees	66 degrees	66 degrees	60 degrees
Right	· ·	66 degrees	86 degrees	80 degrees
Blade		-		
Blade width	4 ft. 5.0 in. (1350 mm)	5 ft. 1.0 in. (1530 mm)	5 ft. 7.0 in. (1700 mm)	6 ft. 6.7 in. (2000 mm)
Blade height	10.5 in. (270 mm)	13.8 in. (350 mm)	13.8 in. (350 mm)	14.8 in. (375 mm)
Dimensions				
F Upperstructure width	4 ft. 5.0 in. (1350 mm)	4 ft. 11.0 in. (1490 mm)	4 ft. 11.0 in. (1490 mm)	6 ft. 1.0 in. (1865 mm)
G Overall height	7 ft. 7.0 in. (2320 mm)	8 ft. 4.0 in. (2550 mm)	8 ft. 5.0 in. (2560 mm)	8 ft. 7.0 in. (2610 mm)
H Track width9.0 in. (230 mm)		12.0 in. (300 mm)	12.0 in. (300 mm)	16.0 in. (400 mm)
I Undercarriage width	4 ft. 5.0 in. (1350 mm)	5 ft. 1.0 in. (1550 mm)	5 ft. 9.0 in. (1740 mm)	6 ft. 7.0 in. (2000 mm)
	9.4 in. (240 mm)	1 ft. 1.8 in. (325 mm)	1 ft. 1.8 in. (325 mm)	1 ft. 1.2 in. (335 mm)
K Tail swing radius	2 ft. 3.0 in. (675 mm)	2 ft. 7.0 in. (775 mm)	2 ft. 10.0 in. (870 mm)	3 ft. 3.4 in. (1000 mm)
L Engine cover height	4 ft. 2.0 in. (1265 mm)	4 ft. 11.0 in. (1510 mm)	5 ft. 0 in. (1530 mm)	5 ft. 2.0 in. (1580 mm)
M Maximum blade lift abov	, ,	,	,	, ,
ground	10.7 in. (275 mm)	1 ft. 1.0 in. (330 mm)	1 ft. 3.0 in. (380 mm)	1 ft. 6.0 in. (450 mm)
N Maximum blade drop be				
ground	9.8 in. (250 mm)	1 ft. 2.6 in. (370 mm)	1 ft. 4.0 in. (400 mm)	1 ft. 7.0 in. (470 mm)
O Sprocket center to idler center4 ft. 0 in. (1210 mm)		4 ft. 11.0 in. (1500 mm)	5 ft. 7.0 in. (1700 mm)	6 ft. 5.0 in. (1955 mm)
P Track length5 ft. 2.0 in. (1570 mm)		6 ft. 4.0 in. (1920 mm)	6 ft. 11.0 in. (2120 mm)	8 ft. 1.0 in. (2460 mm)
	e1 ft. 6.0 in. (455 mm)	1 ft. 9.0 in. (540 mm)	1 ft. 10.0 in. (550 mm)	2 ft. 0 in. (600 mm)
	(, , , ,	((/



17zts / 27zts / 35zts / 50zts Compact Excavators **Key:** ● Standard equipment ▲ Optional or special equipment 17 27 35 50 **Engine** ● Engine coolant to -34°F (-37°C) . . **Engine preheater**

EPA-certified off-road diesel

Kev start switch with electric

Fuel/water separator

Fan quard

Full-flow oil filter

Isolation mounted

● Single dry-type air filter

Hydraulic System

Auxiliary function foot control

Axial-piston swing motor

Excavator-to-backhoe control

Open center with two variable-

displacement pumps and one

boom, arm, bucket, and swing

Rubber track, 9 in. (230 mm)

Rubber track, 12 in. (300 mm)

Rubber track, 16 in. (400 mm)

Two-speed axial-piston propel

Steel track, 9 in. (230 mm) with

Steel track, 12 in. (300 mm)

with triple semi-grousers Steel track, 16 in. (400 mm) with triple semi-grousers

Hydraulic pilot controls for

Boom-swing foot control

pattern change valve

Wet-disc swing brake

fixed-gear pump

Undercarriage

Planetary final drive

Propel motor shield

Auxiliary hydraulic lines with

quick-couplers to end of arm

Auxiliary return-flow selector

fuel shutoff

Under-hood muffler

valve

17 27 35 50 **Upperstructure**

● 360-degree rotation Counterweight, 672 lb. (305 kg) Counterweight, 1,225 lb. (556 kg)

Counterweight, 1,323 lb. (600 kg) Hinged service-access doors Independent-swing boom 65degree left, 50-degree right)

Independent-swing boom 66degree left, 66-degree right) Independent-swing boom 60-

degree left, 80-degree right)

Toolbox

. TOPS/FOPS canopy

Vandal locks for service doors, fuel cap, toolbox, and monitor

Zero-tail-swing configuration

Front Attachments

Arm, 3 ft. 1.0 in. (930 mm) Arm, 3 ft. 10.0 in. (1170 mm) Arm, 4 ft. 2.0 in. (1265 mm) Arm, 4 ft. 5.0 in. (1340 mm) Articulation hose shield

Backfill blade, 4 ft. 4 in. (1350 mm)

Backfill blade, 5 ft. 1 in. (1550 mm)

Backfill blade, 5 ft. 7 in. (1700 mm)

Backfill blade, 6 ft. 7 in. (2000 mm)

Boom, 6 ft. 10.5 in. (2100 mm)

Boom, 8 ft. 0.25 in. (2450 mm) Boom, 9 ft. 2 in. (2890 mm)

Mechanical quick-coupler

See your John Deere dealer for further information. 17 27 35 50 Front Attachments (continued)

▲ ▲ ▲ Augers: Planetary / Chain drive / Bits / Bit adapters

▲ ▲ Clamp

▲ ▲ Grapple

Hammers: Points / Tools ▲ ▲ ▲ Quick-coupler buckets: Bucket teeth / Ditching / Heavy-duty

Operator's Station

● ● Horn

Hourmeter

Instrumentation lights

Monitor system with: Alternator charge warning light / Engine coolant temperature / Engine oil pressure warning light / Engine preheat indicator / Fuel gauge / Work lights on indicator

Motion alarm with cancel switch

Propel pedals and levers Two travel modes with foot selection switch

● ● Seat belt, 2 in. (51 mm), retractable

Vinyl seat with fore/aft adiustment

Cab with heater

▲ ▲ Front screen

Rear secondary exit kit **Electrical**

● ● 12-volt accessory outlet

● ● Alternator, 35 amp

● ■ Low-maintenance battery

 Blade-type multi-fused circuits Positive-terminal battery covers Lights

● ● Work lights: Halogen / One mounted on frame / One mounted on boom

Control Owning and Operating Costs

triple semi-grousers

Customer Personal Service (CPS) is part of John Deere's proactive, fix-before-fail strategy on machine maintenance that will help control costs, increase profits, and reduce stress, included in this comprehensive lineup of ongoing programs and services are:

Fluid analysis program - tells you what's going on inside all of your machine's major components so you'll know if there's a problem *before* you see a decline in performance. Fluid analysis is included in most extended coverage and preventive-maintenance agreements.

Component life-cycle data – gives you vital information on the projected life span of components and lets you make informed decisions on machine maintenance by telling you approximately how many hours of use you can expect from an engine, transmission, or hydraulic pump. This information can be used to preempt catastrophic downtime by servicing major components at about 80 percent of their life cycle.

Preventive Maintenance (PM) agreements – give you a fixed cost for maintaining a machine for a given period of time. They also help you avoid downtime by ensuring that critical maintenance

work gets done right and on schedule. On-site preventive maintenance service performed where and when you need it helps protect you from the expense of catastrophic failures and lets you avoid waste-disposal hassles.

Extended coverage - gives you a fixed cost for machine repairs for a given period of time so you can effectively manage costs. Whether you work in a severe-service setting or just want to spread the risk of doing business, this is a great way to custom-fit coverage for your operation. And an extended coverage contract also travels well because it's backed by John Deere and is honored by all Deere construction dealers.

Customer Support Advisors (CSAs) - Deere believes the CSA program lends a personal quality to Customer Personal Service (CPS). Certified CSAs have the knowledge and skills for helping make important decisions on machine maintenance and repair. Their mission is to help you implement a plan that's right for your business and take the burden of machine maintenance off your shoulders.



Net engine power is with standard equipment including air cleaner, exhaust system, alternator, and cooling fan, at standard conditions per SAE J1349 and DIN 6270B, using No. 2-D fuel at 35 API gravity. No derating is required up to 10,000-ft. (3050 m) altitude. Gross power is without cooling fan.

Specifications and design subject to change without notice. Wherever applicable, specifications are in accordance with SAE standards. Except where otherwise noted, these specifications are based on a canopy unit with full fuel tank and 175-lb. (79 kg) operator; 17zrs unit with 17.7-in. (450 mm), 1.5-cu. ft. (0.04 m³) bucket, 9-in. (230 mm) rubber track, and 672-lb. (305 mm) counterweight; 27zts unit with 20-in. (508 mm), 2.8-cu. ft. (0.08 m³) bucket, 12-in. (300 mm) rubber track, and 672-lb. (305 kg) counterweight; 35zrs unit with 24-in. (610 mm), 4.0-cu. ft. (0.11 m³) bucket, 12-in. (300 mm) rubber track, and 1,225-lb. (556 kg) counterweight; and 50zrs unit with 24-in. (610 mm), 5.7-cu. ft. (0.16 m³) bucket, 16-in. (400 mm) rubber track, and 1,323-lb. (600 kg) counterweight. Lift capacities shown are for base machine above with mechanical quick-coupler, less bucket.

