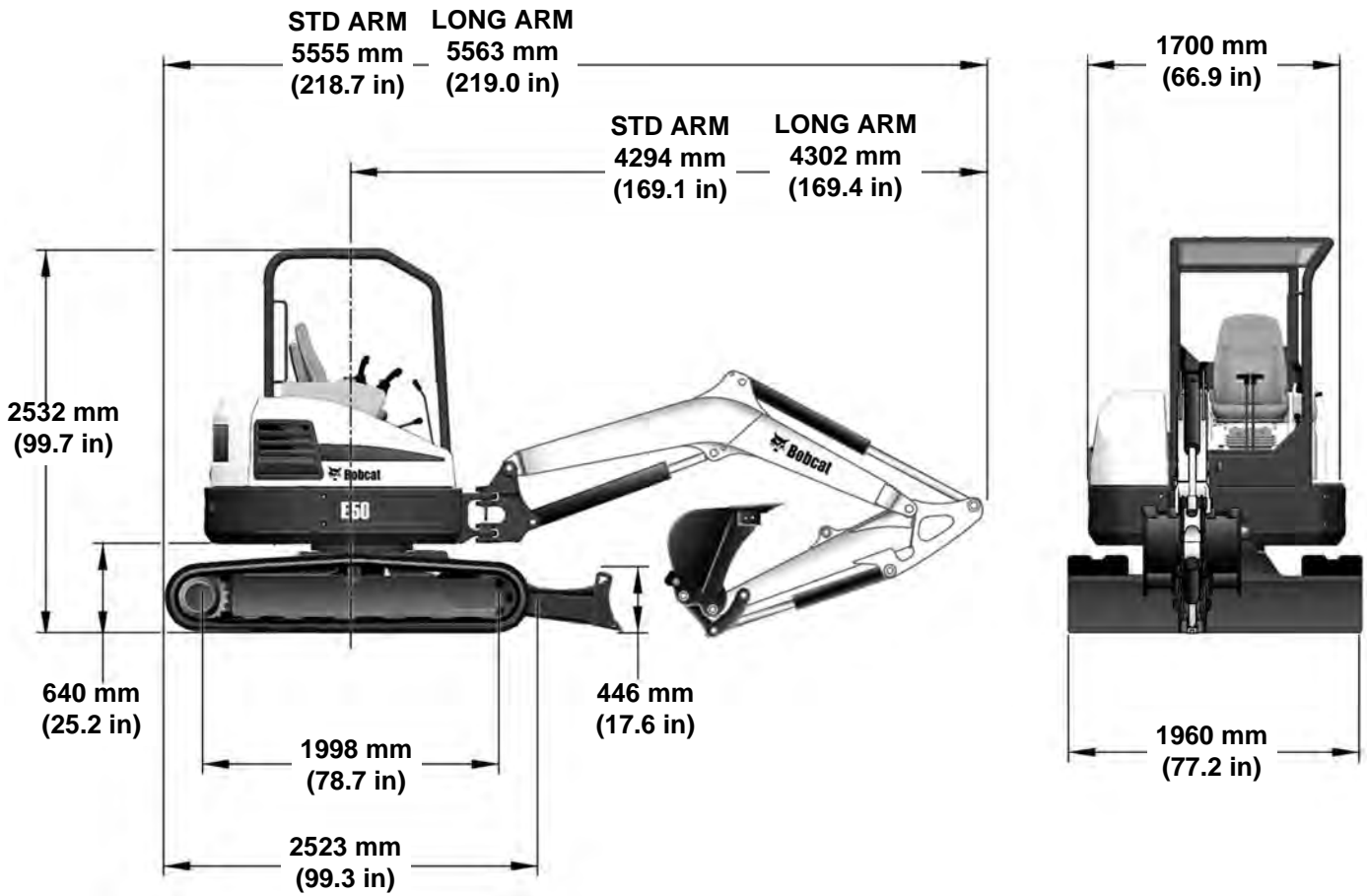
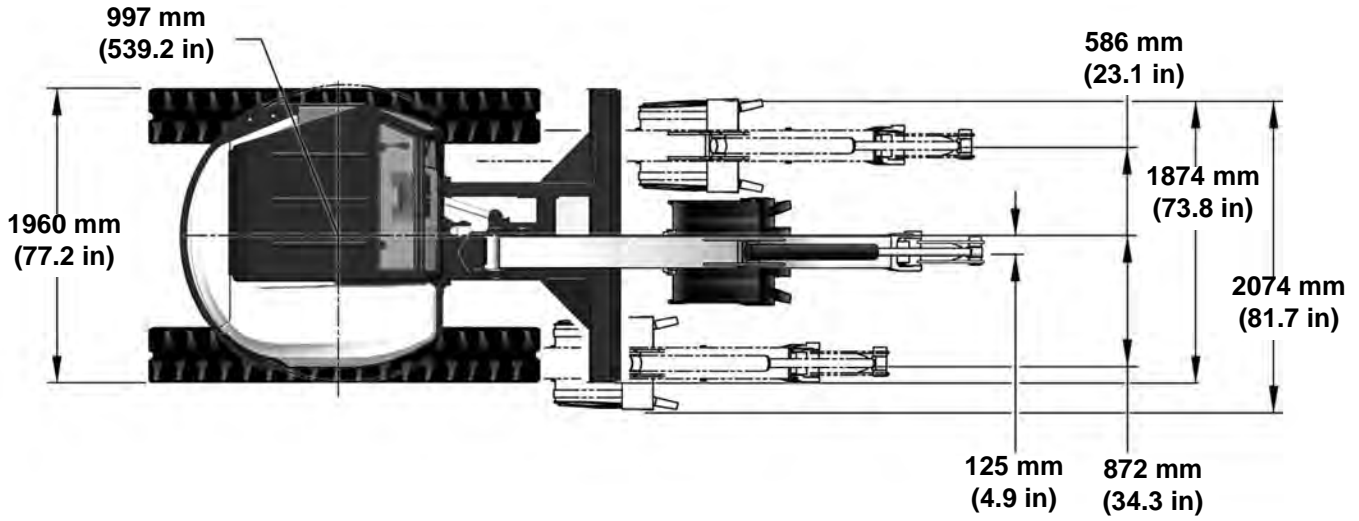


EXCAVATOR SPECIFICATIONS

E50 Excavator Machine Dimensions

- Where applicable, specification conform to SAE or ISO standards and are subject to change without notice.



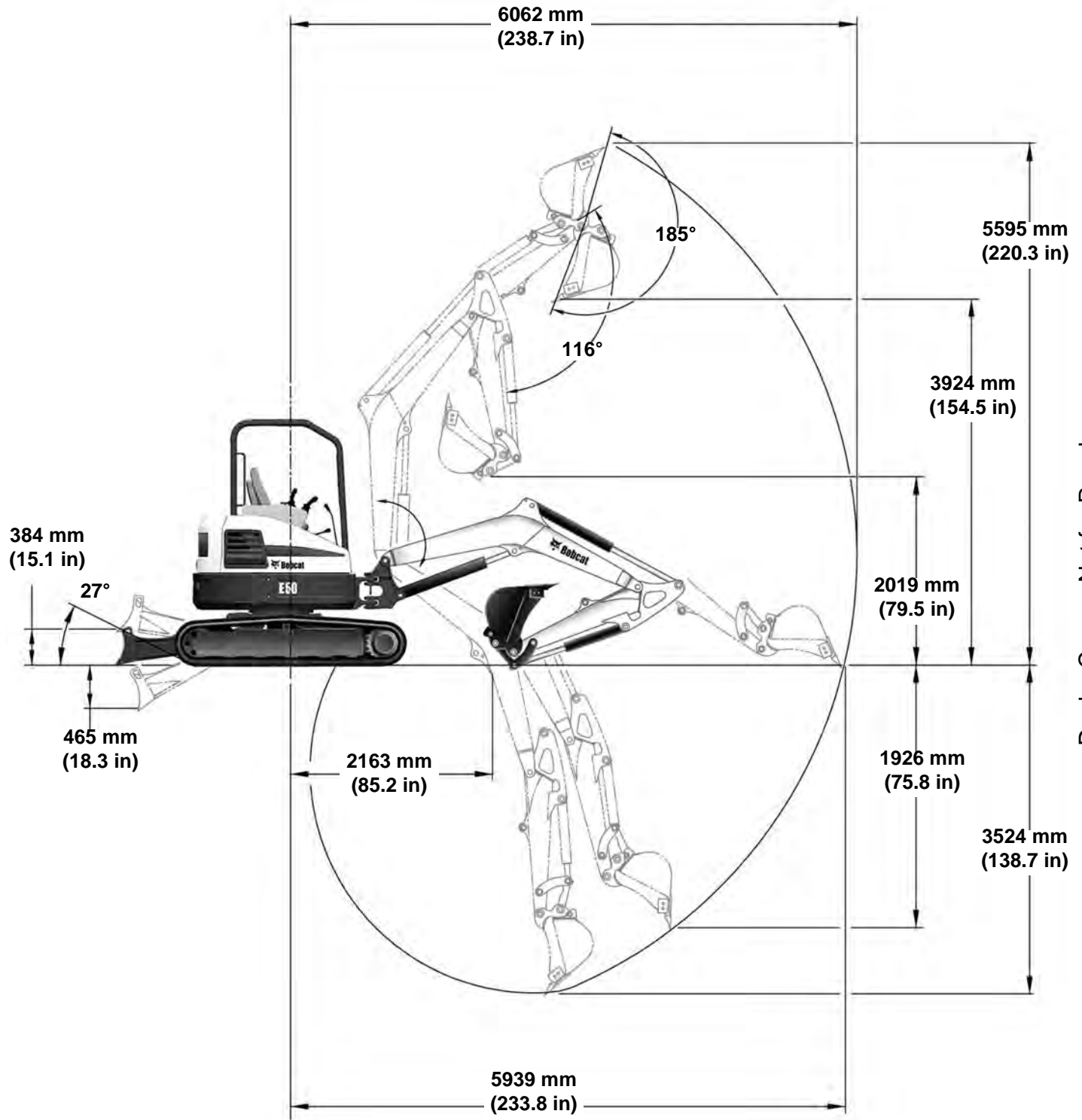
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NA5066

EXCAVATOR SPECIFICATIONS (CONT'D)

E50 Excavator Machine Dimensions - Standard Arm

- Where applicable, specification conform to SAE or ISO standards and are subject to change without notice.



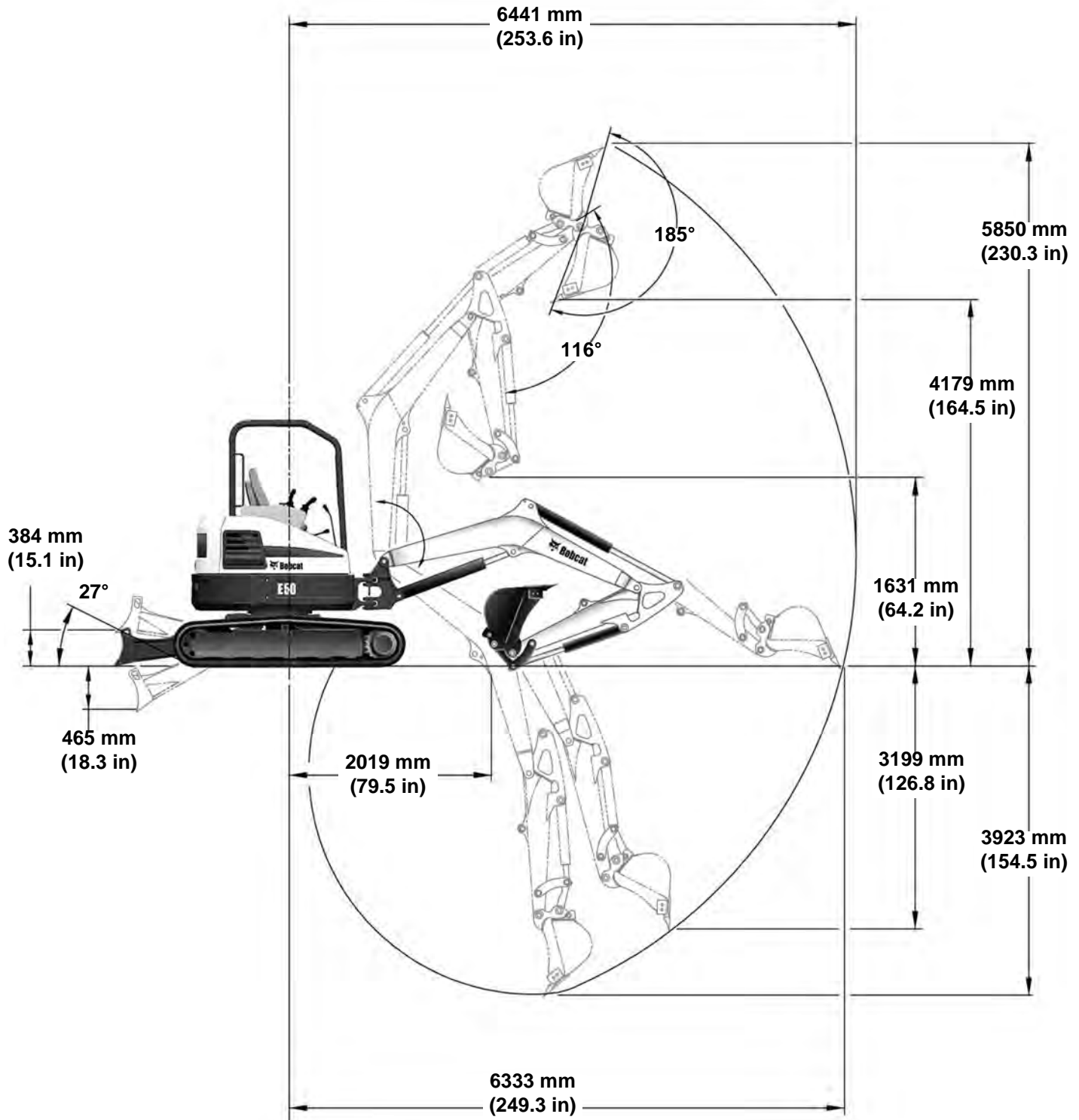
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NA5067

EXCAVATOR SPECIFICATIONS (CONT'D)

E50 Excavator Machine Dimensions - Long Arm

- Where applicable, specification conform to SAE or ISO standards and are subject to change without notice.



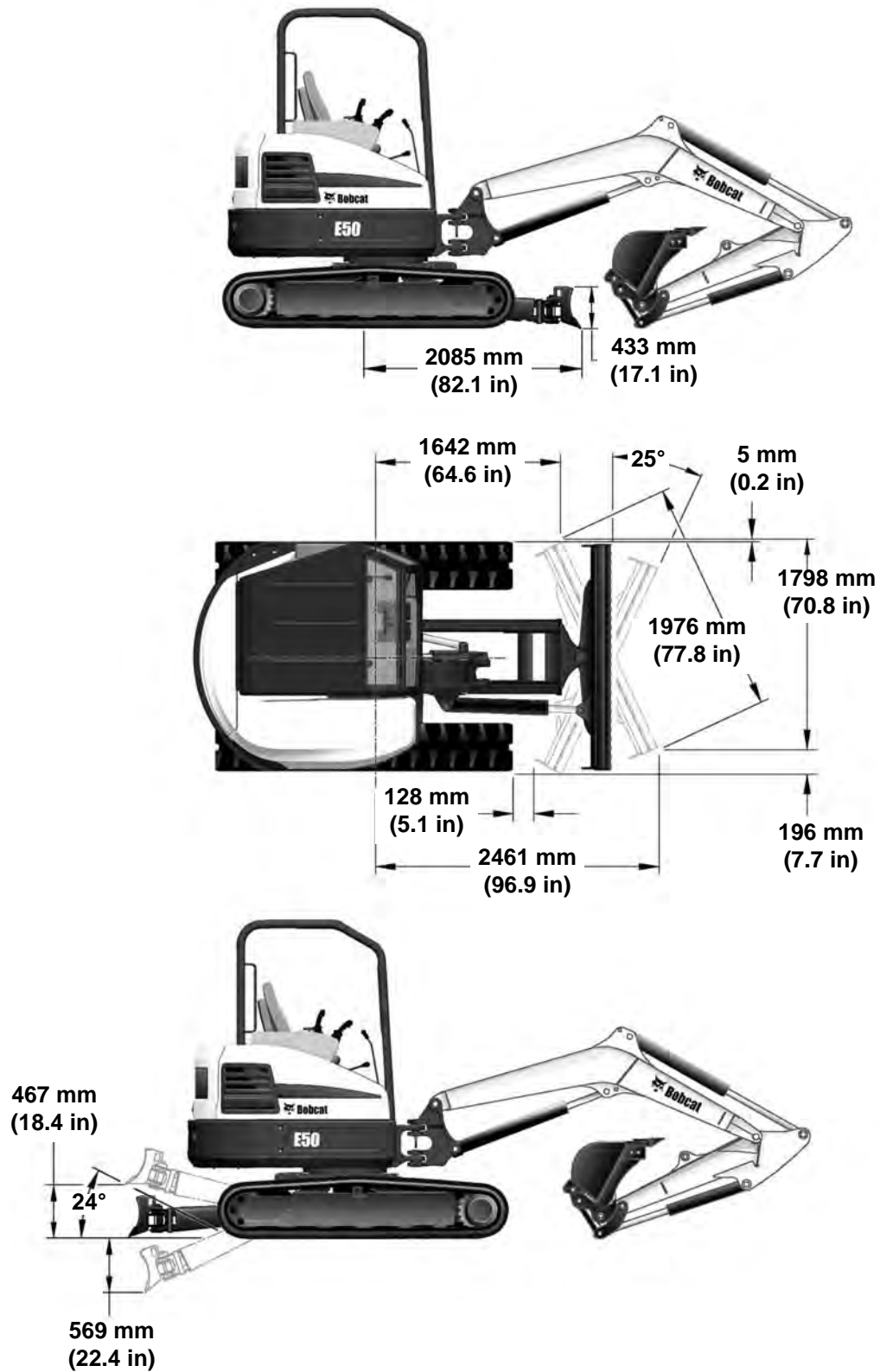
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EXCAVATOR SPECIFICATIONS (CONT'D)

E50 Excavator Machine Dimensions - Angle Blade

- Where applicable, specification conform to SAE or ISO standards and are subject to change without notice.



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NA5030A

EXCAVATOR SPECIFICATIONS (CONT'D)

Performance

E50	
Operating weight (canopy w/ rubber tracks, and 610 mm (24 in) bucket)	4843 kg (10677 lb)
If equipped with the following, add:	Steel tracks, add 131kg (289 lb); Cab w/ Heater, add 121 kg (267 lb); Cab w/ HVAC, add 140 kg (309 lb); Long Arm (with additional counterweight), add 235 kg (518 lb); Additional Counterweight 204 kg (450 lb); Angle Blade, add 157 kg (346 lb) Hydraulic Clamp, add 99 kg (218 lb) Pro Clamp System, Add 144 kg (317 lb)
Travel Speed (Low / High)	3,1 kph (1.9 mph) / 5,0 kph (3.1 mph)
Digging Force (per ISO 6015)	
With Standard Arm	Arm - 29997 N (6744 lbf) Bucket - 39930 N (8977 lbf)
With Long Arm	Arm - 25580 N (5751 lbf) Bucket - 39930 N (8977 lbf)
Boom Swing	Left 75° Right 50°

Controls

Steering	Two hand levers (optional foot pedals)
Hydraulics	Two hand operated levers (joysticks) control boom, bucket, arm and upperstructure slew
Blade	Hand lever
Angle Blade (If Equipped)	Switch on blade lever
Two-Speed	Switch on blade lever
Boom Switch	Electric switch in left joystick
Auxiliary Hydraulics	Electric switch in right joystick
Auxiliary Pressure Release	Electric switch in right joystick - Standard Instrument Panel Display Panel Button - Deluxe Instrument panel
Engine	Engine speed control dial with auto idle feature, key type start switch
Starting Aid	Glow Plugs - activated by key switch
Brakes Travel Service & Parking Swing Service Holding	Hydraulic lock in motor circuit Hydraulic lock on motor Spring applied - hydraulic release

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EXCAVATOR SPECIFICATIONS (CONT'D)

Engine

Make / Model	Kubota V2403-M-DI-TE3B-BC-4
Fuel / Cooling	Diesel / Liquid
Horsepower (SAE Net) @ 2200 RPM	35,4 kW (47.5 hp)
Torque @ 1200 RPM (SAE Net)	179,5 N•m (132.4 ft-lb)
Number Of Cylinders	4
Displacement	2,433 L (148.5 in ³)
Bore / Stroke	87,1 x 102,4 mm (3.43 x 4.03 in)
Lubrication	Pressure System with Filter
Crankcase Ventilation	Closed Breathing
Air Cleaner	Dry replaceable paper dual cartridge
Ignition	Diesel-Compression
Low Idle Speed	1200 rpm +/- 75 rpm
High Idle Speed	2450 rpm
Engine Coolant	Propylene Glycol / water mixture (53% PG / 47% water)

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EXCAVATOR SPECIFICATIONS (CONT'D)

Hydraulic System

Pump Type	Engine driven, single outlet, variable displacement, load sensing, torque limited, piston pump
Pump Capacity Piston Pump	138,5 Lpm (36.6 gpm)
Auxiliary Flow (Aux3)	75,7 Lpm (20.0 gpm)
Auxiliary Flow - 2nd Aux S/N: AHHE14000 - AHHE14775 Equipped with non-angle blade (Female Coupler) (Male Coupler)	26,4 L/min (7.0 US gpm) 21,0 L/min (5.5 US gpm)
Auxiliary Flow - 2nd Aux S/N: AHHE1400 - AHHE14771 Equipped with angle blade (Female Coupler) (Male Coupler)	26,4 L/min (7.0 US gpm) 21,0 L/min (5.5 US gpm)
Auxiliary Flow - 2nd Aux S/N: AHHE14776 & Above Equipped with non-angle blade (Female Coupler) (Male Coupler)	45,4 L/min (12.0 US gpm) 34,1 L/min (9.0 US gpm)
Auxiliary Flow - 2nd Aux S/N: AHHE14772 & Above Equipped with angle blade (Female Coupler) (Male Coupler)	45,4 L/min (12.0 US gpm) 34,1 L/min (9.0 US gpm)
Hydraulic Filter	Full flow replaceable, 3 micron synthetic media element
Control Valve	closed center, individually compensated
Fluid Type	Bobcat Fluid, Hydraulic / Hydrostatic 6903117 - (2.5 U.S. gal) 6903118 - (5 U.S. gal) 6903119 - (55 U.S. gal)
System Relief Pressure Slew Circuit Boom, Blade, Arm, Bucket, Boom Swing, Auxiliary Joystick Control Pressure	24097 kPa (241 bar) (3495 psi) 25580 kPa (256 bar) (3710 psi) 2999 kPa (30 bar) (435 psi)
Auxiliary Port Relief, Male And Female Couplers	20995 kPa (210 bar) (3045 psi)
Arm Port Relief, Base End And Rod End	28999 kPa (290 bar) (4206 psi)
Boom Port Relief, Base End And Rod End	28999 kPa (290 bar) (4206 psi)
Bucket Port Relief Base End And Rod End	28999 kPa (290 bar) (4206 psi)
Blade Port Relief Base End And Rod End	26000 kPa (260 bar) (3771 psi)
Angle Blade (If Equipped) Port Relief Base End And Rod End	27000 kPa (270 bar) (3916 psi)
Main Hydraulic Filter Bypass	345 kPa (3,5 bar) (50 psi)
Case Drain	172 kPa (1,7 bar) (25 psi)

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EXCAVATOR SPECIFICATIONS (CONT'D)

Hydraulic Cylinders

Cylinder	Bore	Rod	Stroke
Boom (cushion up)	101,6 mm (4.00 in)	57,1 mm (2.25 in)	697 mm (27.45 in)
Arm (cushion retract / extend)	88,9 mm (3.50 in)	57,1 mm (2.25 in)	757 mm (29.82 in)
Bucket	82,6 mm (3.25 in)	50,8 mm (2.00 in)	524 mm (20.63 in)
Boom Swing	95,2 mm (3.75 in)	50,8 mm (2.00 in)	491 mm (19.32 in)
Blade	101,6 mm (4.00 in)	50,8 mm (2.00 in)	195 mm (7.68 in)
Angle Blade (If equipped)	63,5 mm (2.50 in)	38,1 mm (1.50 in)	423 mm (16.65 in)

Hydraulic Cycle Times

Bucket Curl	2.6 Seconds	
Bucket Dump	1.8 Seconds	
Arm Retract	3.1 Seconds	
Arm Extend	3.1 Seconds	
Boom Raise	4.8 Seconds	
Boom Lower	4.6 Seconds	
Boom Swing Left	AG3N14000 - AG3N14520 8.8 Seconds	AG3N14521 AND ABOVE 4.4 Seconds
Boom Swing Right	AG3N14000 - AG3N14520 8.1 Seconds	AG3N14521 AND ABOVE 4.6 Seconds
Blade Raise	3.1 Seconds	
Blade Lower	2.7 Seconds	
Angle Blade Left (If equipped)	1.8 Seconds	
Angle Blade Right (If equipped)	1.8 Seconds	

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Drive System

Final Drive	Each track is driven by hydrostatic axial piston motor
Type of Reduction	56.4:1 two stage planetary

Slew System

Slew Motor	Axial piston connected to a planetary drive
Slew Circle	Single row shear type ball bearing with internal gear
Slew Speed	9.0 rpm

Undercarriage

Crawler Track Design	Sealed track rollers with boxed section track roller frame, grease type track adjuster with shock absorbing recoil spring
Width of crawler	1960 mm (77.2 in)

EXCAVATOR SPECIFICATIONS (CONT'D)

Electrical

Starting Aid	Glow Plugs
Alternator	12 volt, 90 Amp open frame w / internal regulator
Battery	12 volt - 540 CCA @ -18°C (0°F)
Starter	12 volt; gear reduction 2.0 kW (2.7 hp)
Lights	37.5 watt (2)
Instrumentation	<p>Gauges: Engine Coolant Temperature, Fuel Level.</p> <p>Warning lights: Fuel Level, Seat Belt, Engine Coolant Temperature, Engine Malfunction, Hydraulic System Malfunction, General Warning.</p> <p>Indicators: Two-Speed, Engine Preheat.</p> <p>Data Display: Operating Hours, Engine rpm, Maintenance Clock Countdown, Battery Voltage, Service Codes, Engine Preheat.</p> <p>Other: Audible Alarm, Lights.</p> <p>Optional Deluxe Instrumentation Panel: *Additional displays for: Engine rpm, Coolant Temperature and Oil Pressure; System Voltage and Hydraulic Oil Temperature. *Additional Features Included: Keyless Start, Digital Clock, Job Clock, Password Lockout, Multi-language Display, Help Screens, Diagnostic Capability and Engine / Hydraulic Systems Shutdown Function.</p>

Capacities

Fuel Tank	79,9 L (21.1 U.S. gal)
Hydraulic Reservoir Only (Center of Sight Glass)	Tank Cap. 15,1 L (4.0 U.S. gal)
Hydraulic System (with Reservoir)	54,9 L (14.5 U.S. gal)
Cooling System	8,3 L (2.2 U.S. gal)
Engine Oil and Filter	7,1 L (7.5 qt)
Final Drive (each)	1,0 L (1.1 qt)
Air Conditioning Refrigerant (R-134a)	0,77 kg (1.7 lb)

Tracks

Type	Rubber	Steel
Width	400 mm (15.7 in)	400 mm (15.7 in)
Number Of Shoes	Single Assembly	39
Number of Track Rollers (per side)	5	5

Ground Pressure

Rubber Tracks - Standard Arm Long Arm	27,2 kPa (0,272 bar) (3.95 psi) 27,9 kPa (0,280 bar) (4.05 psi)
Steel Tracks - Standard Arm Long Arm	28,5 kPa (0,285 bar) (4.14 psi) 29,3 kPa (0,293 bar) (4.25 psi)

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