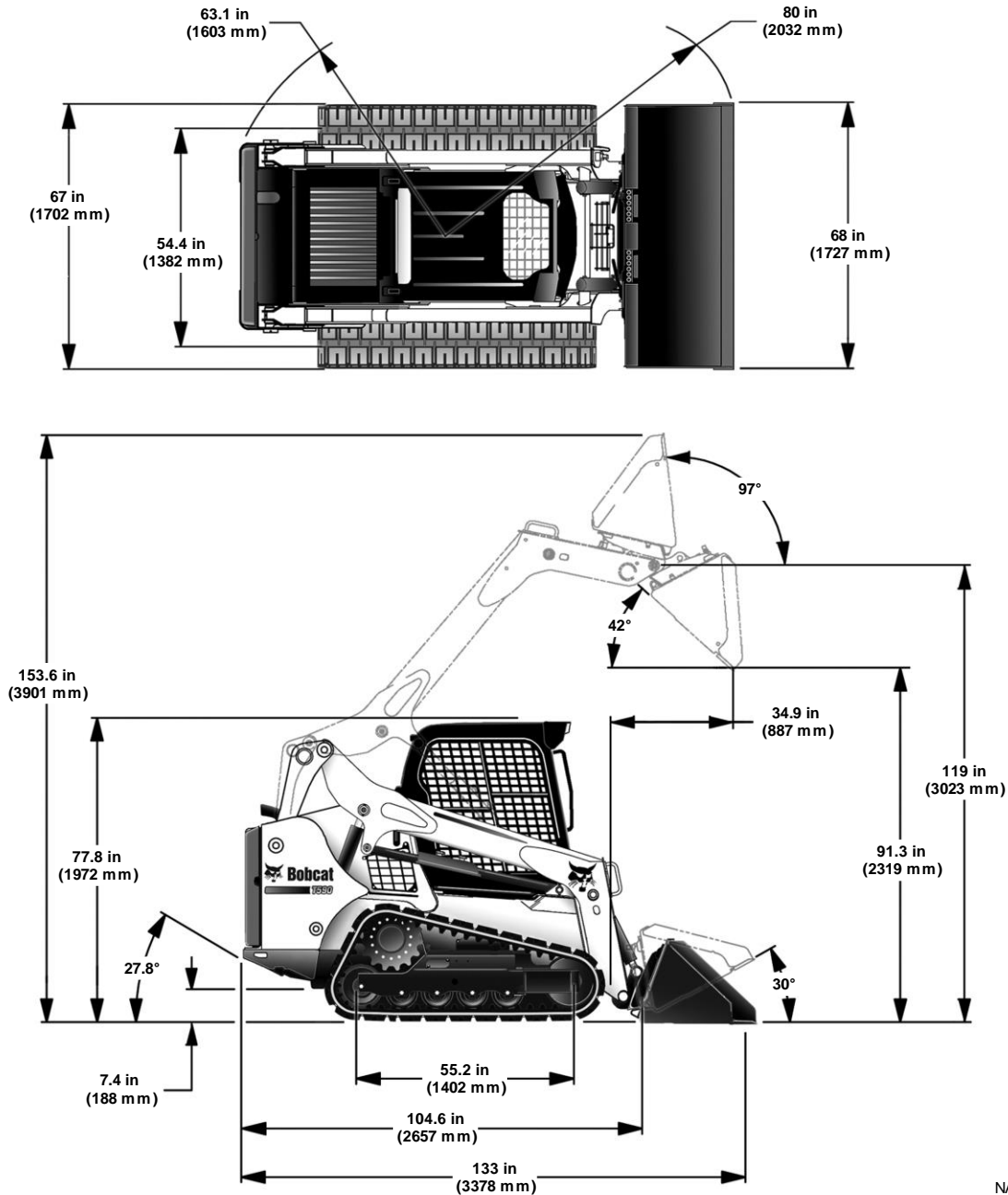


(T590) LOADER SPECIFICATIONS

Machine Dimensions

- Dimensions are given for loader equipped with standard tracks and 68 in. Construction and Industrial bucket and may vary with other bucket types.
- Where applicable, specifications conform to SAE or ISO standards and are subject to change without notice.



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Changes of structure or weight distribution of the loader can cause changes in control and steering response, and can cause failure of the loader parts.

**Specification(s) are based on engineering calculations and are not actual measurements. Specification(s) are provided for comparison purposes only and are subject to change without notice. Specification(s) for your individual Bobcat equipment will vary based on normal variations in design, manufacturing, operating conditions, and other factors.*

(T590) LOADER SPECIFICATIONS (CONT'D)

Performance

	ROLLER SUSPENSION UNDERCARRIAGE	SOLID-MOUNTED UNDERCARRIAGE
Rated Operating Capacity	1950 lb (885 kg)	2100 lb (953 kg)
with 200 Pound Frame Mounted Counterweight Kit	2050 lb (930 kg)	2200 lb (998 kg)
Tipping Load	5571 lb (2527 kg)	6000 lb (2722 kg)
Operating Weight	8007 lb (3632 kg)	7822 lb (3548 kg)
Breakout Force – Lift		4630 lb (2100 kg)
Breakout Force – Tilt		5470 lb (2481 kg)
Push Force	7172 lb (3253 kg)	6974 lb (3163 kg)
Travel Speed	7.1 mph (11,4 km/h)	7.1 mph (11,4 km/h)
Travel Speed – 2 Speed Option		
Low Range	7.1 mph (11,4 km/h)	7.1 mph (11,4 km/h)
High Range	10.4 mph (16,7 km/h)	10.4 mph (16,7 km/h)

(T590) LOADER SPECIFICATIONS (CONT'D)**Engine**

Make / Model	Bobcat Engine / 2,4L Bobcat Engine Tier 4
Fuel / Cooling	Diesel / Liquid
Horsepower: – ISO 9249 EEC / SAE J1349 Net – ISO 14396 Gross – SAE J1995 Gross	62.9 hp (48,5 kW) @ 2600 rpm 66.1 hp (49,2 kW) @ 2600 rpm 66.9 hp (49,2 kW) @ 2600 rpm
Torque: – ISO 9249 EEC / SAE J1349 Net – SAE J1995 Gross	175.5 ft-lb (238,0 N•m) @ 1800 rpm 180.7 ft-lb (245,0 N•m) @ 1800 rpm
Low Idle rpm	1125 – 1175
High Idle rpm	2600
Number of Cylinders	4
Displacement	146.0 in ³ (2392 cm ³)
Bore / Stroke	3.543 in / 3.701 in (90 mm / 94 mm)
Lubrication	Gear Pump Pressure System with Filter
Crankcase Ventilation	Closed Breathing
Air Cleaner	Dry replaceable paper cartridge with separate safety element
Ignition	Diesel – Compression
Air Induction	Turbo-Charged and Charged Air Cooled
Engine Coolant	Propylene Glycol / Water Mixture
Starting Aid	Glow plugs automatically activated as needed in RUN position

Drive System

Main Drive	Fully hydrostatic, rubber track drive
Transmission	Infinitely variable tandem hydrostatic piston pumps, driving two fully reversing hydrostatic motors
Tracks (Tension)	Grease cylinder and spring

(T590) LOADER SPECIFICATIONS (CONT'D)

Controls

Machine Steering	Direction and speed controlled by two hand operated steering levers or optional joystick(s)
Loader Hydraulics: – Lift and Tilt – Front Auxiliary – Rear Auxiliary (Option)	Controlled by separate foot pedals or optional Advanced Control System (ACS) or optional Selectable Joystick Controls (SJC) Controlled by electrical switch on Right Hand steering lever or joystick Controlled by electrical switch on Left Hand steering lever or joystick
Auxiliary Pressure Release	Pressure relieved through quick couplers; Push couplers in, hold for 5 seconds
Engine	Hand operated speed control, additional foot operated speed control pedal with SJC option; key-type start switch or optional Keyless Start Panel or optional Deluxe Instrumentation Panel and function error shutdown
Service Brake	Two independent hydrostatic systems controlled by two hand operated steering levers or optional joystick(s)
Secondary Brake	One of the hydrostatic transmissions
Parking Brake	Spring applied pressure release multiple-disc brake activated by manually operated switch on left instrument panel

(T590) LOADER SPECIFICATIONS (CONT'D)**Hydraulic System**

Pump Type	Engine driven, gear type
Pump Capacity – Standard-Flow	17.1 U.S. gpm (64,7 L/min)
Pump Capacity – High-Flow (Option)	26.7 U.S. gpm (101,1 L/min)
System Relief at Quick Couplers	3450 – 3550 psi (23,8 – 24,5 MPa) (238 – 245 bar)
Filter (Hydraulic / Hydrostatic)	Replaceable beta 10 micron = 200, drop in element
Filter (Charge)	Replaceable beta 10 micron = 200, drop in element
Hydraulic Cylinders:	Double-acting; tilt cylinders have cushioning feature on dump and rollback
Lift Cylinder (2):	
Bore Diameter	2.75 in (69,9 mm)
Rod Diameter	1.63 in (41,4 mm)
Stroke	21.26 in (540,0 mm)
Tilt Cylinder (2):	
Bore Diameter	2.75 in (69,9 mm)
Rod Diameter	1.50 in (38,1 mm)
Stroke	13.02 in (330,7 mm)
Control Valve – Standard	3-Spool, open center, manually operated with spring detent for lift float; Electrically controlled auxiliary spool
Control Valve – ACS and SJC	3-Spool, open center with electric actuator controlled lift with float and tilt; Electrically controlled auxiliary spool
Fluid Lines	SAE Standard tubelines, hoses, and fittings
Fluid Type	BOBCAT FLUID, Hydraulic / Hydrostatic 6903117 – (Two – 2.5 U.S. gal) 6903118 – (5 U.S. gal) 6903119 – (55 U.S. gal)
Hydraulic Function Time:	
Raise Lift Arms	3.8 seconds
Lower Lift Arms	2.5 seconds
Bucket Dump	2.3 seconds
Bucket Rollback	1.7 seconds

(T590) LOADER SPECIFICATIONS (CONT'D)

Electrical System

Alternator	Belt driven, 90 amperes, open frame
Battery	12 volt, 600 cold cranking amperes @ 0°F (-18°C), 115 minute reserve capacity @ 25 amperes
Starter	12 volt, gear type, 3.62 hp (2,7 kW)
Instrumentation	<p style="text-align: center;">Gauges:</p> <p style="text-align: center;">Engine Coolant Temperature and Fuel Level</p> <p style="text-align: center;">Warning lights:</p> <p style="text-align: center;">Fuel Level, Seat Belt, Engine Coolant Temperature, Engine Malfunction, Hydraulic System Malfunction, Diesel Particulate Filter (DPF) / Diesel Exhaust Fluid (DEF), and General Warning</p> <p style="text-align: center;">Indicators:</p> <p style="text-align: center;">BICS™ Functions, Two-Speed, 3-Point Restraint, and Turn Signals</p> <p style="text-align: center;">Data Display:</p> <p>Operating Hours, Engine rpm, Speed Management Setting, Maintenance Clock Countdown, Battery Voltage, Service Codes, Engine Preheat Countdown, Lift and Tilt Compensation Setting, Steering Drift Compensation Setting, and Drive Response Setting</p> <p style="text-align: center;">Other:</p> <p style="text-align: center;">Audible Alarm, Lights, and Option / Accessory Switches</p> <p style="text-align: center;">Optional Deluxe Instrumentation Panel:</p> <p>*Additional displays for: Engine rpm, Engine Coolant Temperature, Engine Oil Pressure, System Voltage, Hydraulic Fluid Temperature, and Hydrostatic Charge Pressure</p> <p>*Additional Features Included: Keyless Start, Digital Clock, Job Clock, Password Lockout, Multiple-Language Display, Help Screens, Diagnostic Capability, and Engine / Hydraulic Systems Shutdown Function</p>

(T590) LOADER SPECIFICATIONS (CONT'D)

Capacities

Fuel	36.5 U.S. gal (138,2 L)
Engine Oil with Filter Change	9.1 qt (8,6 L)
Engine Cooling System with Heater	2.9 U.S. gal (10,9 L)
Engine Cooling System without Heater	2.8 U.S. gal (10,6 L)
Hydraulic / Hydrostatic Reservoir	2.0 U.S. gal (7,57 L)
Hydraulic / Hydrostatic System	9.5 U.S. gal (36,0 L)
Hydrostatic Drive Motor (Each)	2.0 U.S. fl oz (60,0 mL)
Air Conditioning Refrigerant (R-134a)	1.5 lb (0,68 kg)

Tracks

Standard Rubber	12.6 in (320 mm) Rubber, C-Pattern
Optional Rubber Wide	15.75 in (400 mm) Rubber, C-Pattern
Optional Rubber Winter	12.6 in (320 mm) Rubber, Winter Pattern

Ground Pressure

	ROLLER SUSPENSION UNDERCARRIAGE	SOLID-MOUNTED UNDERCARRIAGE
Rubber Track – 12.6 in (320 mm)	5.2 psi (0,04 MPa) (0,4 bar)	5.1 psi (0,04 MPa) (0,4 bar)
Rubber Track – 15.75 in (400 mm)	4.2 psi (0,03 MPa) (0,3 bar)	4.1 psi (0,03 MPa) (0,3 bar)