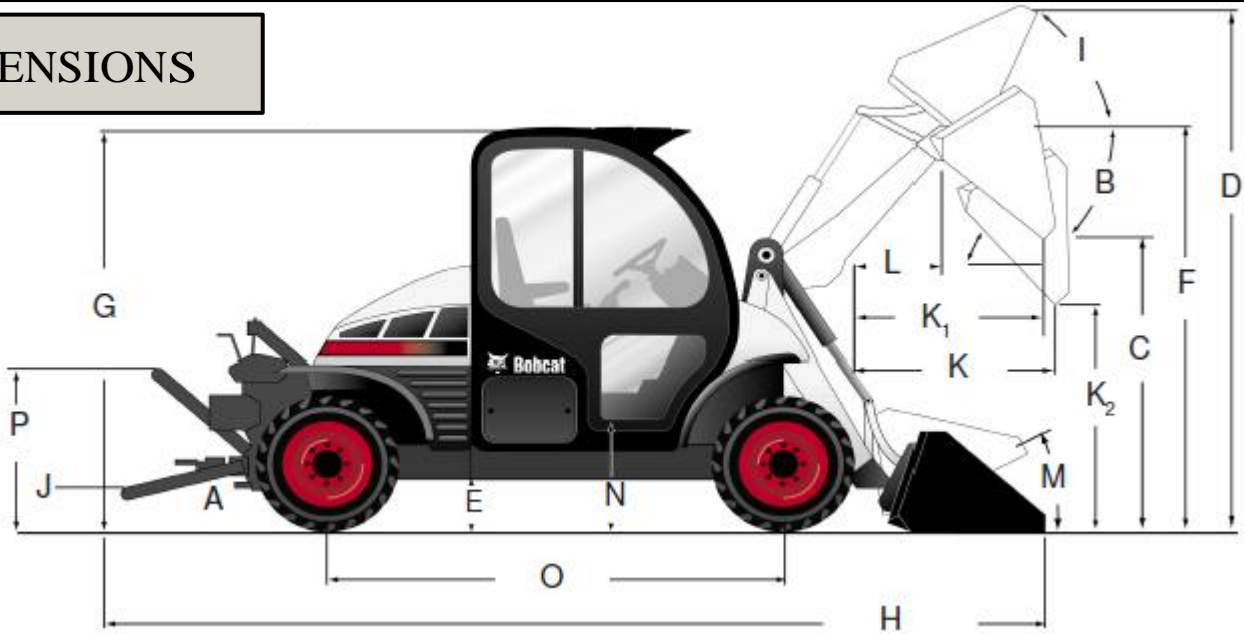


5610 TURBO UTILITY WORK MACHINE SPECIFICATIONS

DIMENSIONS



- A. Angle of Departure 28°
- B. Dump Angle @ Maximum Height..... 40°
- C. Dump Height 59.4" (1509 mm)
- D. Overall Operating Height 108.2" (2748)
- E. Ground Clearance - Cab 8.25" (235 mm)
- Ground Clearance - Differentials 8.0" (203 mm)
- F. Height to Bucket Hinge Pin 83.3" (2116 mm)
- G. Height 81.0" (2057 mm)
- H. Length with Standard Bucket 180.8" (4592 mm)
- Length without Attachment 153.8" (3907 mm)
- I. Maximum Rollback - Fully Raised 65°
- J. Drawbar Height 13.25" (337)
- K. Reach 45.7" (1161 mm)
- K1. Reach - Fully Raised 39.9" (1013 mm)
- K2. Reach - Specified Height 45.8" (1163 mm)
- L. Reach to Hinge Pin 20.4" (518 mm)
- M. Rollback @ Ground Level 30°
- N. Step-in Height..... 20.7" (526 mm)
- O. Wheelbase 88.0" (2235 mm)
- P. Three-Point Height - Fully Lowered 6.17" (157)
- Three-Point Height - Fully Raised 31.5" (800)
- Q. Width (over tires, wheels straight)
- 27x10.5-15 60.0" (1524 mm)
- R. Wheel Tread
- 27x10.5-15 49.5" (1257 mm)
- S. Bucket Width 62.0" (1575 mm)
- Turning Diameter in AWS mode 17'5" (5334 mm)



PERFORMANCE

- Rated Operating Capacity
- with Three-Point (ISO 14397) 1725 lbs. (782 kg.)
- Operating Weight (SAE) 5710 lbs. (2590 kg.)
- Travel Speed (Low Range and Work Mode) 0-8 mph (13 km/h)
- Travel Speed (High Range) 0-16.5mph (27 km/h)
- Travel Speed (Reverse) 0-8 mph (13 km/h)
- Suspension - Front and Rear..... 4-wheel independent

ENGINE/ELECTRICAL

Model	Bobcat D24NAP
Fuel/Cooling	Diesel/Liquid
Horsepower (SAE J1995)	62 HP (46.2 kW)
Maximum Governed RPM	2600 RPM
Torque (SAE J1349 Net)	160.8 lbf-ft (225 N-M) @ 1800 RPM
Number of Cylinders	4
Displacement	146 cu. in. (2,4 L)
Bore/Stroke	3.543/3.70 in. (90/94 mm)
Fuel Consumption	2.1 gph (7,9 L/h)
	Average fuel consumption is based on testing by Bobcat Company in all duty cycles. Actual consumption could be 2.1 - 3.4 gph depending on use.
Lubrication	Gear Pump Pressure System
Crankcase Ventilation	Closed (breathing)
Air Cleaner	Dry replaceable cartridge with safety element
Ignition	Diesel-Compression
Engine Coolant	Propylene glycol/water mix (53%-47%) with freeze protection to -34°F (-37°C)
Starting Aid	Glow plugs
Alternator	Belt driven; 90 amps; ventilated (open)
Battery	12 volt; 600 cold cranking amps @ 0°F, 115 minute reserve capacity @ 25 amps
Starter	12 volt; gear reduction type; 4.02 HP (3,0 kW)

HYDRAULIC SYSTEM

Pump Type	Engine driven, gear type
Pump Capacity-Standard	18.9 GPM (71,5 L/min)
Pump Capacity-High Flow	27.9 GPM (105,6 L/min)
System Relief @ Quick Couplers.....	3000 PSI (206,8 Bar)
Hydraulic Filter	Full flow replaceable, 10 micron synthetic media element
Hydraulic Cylinders	Double-acting; tilt cylinder has cushioning feature on dump and rollback
Control Valve (Loader)	Pilot-operated, open center, series type with float detent on lift
Control Valve (Attachment)	Electric over hydraulic valve with variable flow control, and dual direction detent
Fluid Type.....	Bobcat Hydraulic/Hydrostatic Fluid - premium grade anti wear multi viscosity, petroleum based. Motor oil is not an acceptable alternative fluid.

Bore Diameter

Lift Cylinder (1)	2.5 in. (63,5 mm)
Tilt Cylinder (1)	2.5 in. (63,5 mm)
Three-Point Cylinder (1)	2.38 in. (60,5 mm)

Rod Diameter

Lift Cylinder (1)	1.5 in. (38,1 mm)
Tilt Cylinder (1)	1.5 in. (38,1 mm)
Three-Point Cylinder (1)	1.38 in. (35 mm)

Stroke

Lift Cylinder (1)	22.89 in. (581,4 mm)
Tilt Cylinder (1)	16.34 in. (415,0 mm)
Three-Point Cylinder (1)	6.64 in. (169 mm)

Hydraulic Function Times

Raise Lift Arms	3.3 Seconds
Lower Lift Arms	2.3 Seconds
Bucket Dump	2.5 Seconds
Bucket Rollback	1.7 Seconds

THREE-POINT, PTO, REAR HYDRAULICS

Rear-PTO Horsepower	25 HP
Three-Point Hitch	Category I
Lift Control Type	Hydraulic Height Control
Rear PTO	540 RPM
Rear PTO System	Independent
Rear Remote Hydraulics	Dual
Telescopic Stabilizers	Standard
Lower Links	Fixed
Lifting Rod	Turnbuckle

CAPACITIES

Fuel Tank	20 gals. (75,7 L)
Cooling System	
Engine Oil with Filter	9.1 qts. (7,6 L)
Hydraulic Reservoir	2.3 gals. (8.7 L)
Hydraulic/Hydrostatic System	42 qts. (39,8 L)
Axle Lube	5.5 qts. (5,24 L)

DRIVE SYSTEM

Transmission	Fully hydrostatic, full-time 4-wheel drive
Differentials	Limited Slip Differentials provided in both axles.
Speeds	Two-speed ranges. Shifting between low and high range can be done on the fly and while under power.
Wheel Bolts	(6) 9/16 in. wheel bolts fixed to axle hubs on 6" bolt circle

CONTROLS

Vehicle Steering	Direction controlled by steering wheel with tilt adjustment
Travel Speed	Controlled by drive pedal, cruise control controlled by dash button
Engine Speed	Controlled by separate hand lever
Vehicle Direction	Forward and reverse travel direction controlled by a shuttle lever
Steering Modes	All-Wheel Steer or Front-Wheel Steer controlled by electric switch
Hydraulic Controls	
Lift & Tilt	Manually operated pilot joystick
Front Auxiliary	Electrical switches on the hydraulic joystick
Three-Point	Lever controlled hydraulic valve
Auxiliary Pressure Release	Pressure is relieved through the coupler block, push in and hold each coupler for five seconds
Engine	Hand lever throttle; key-type starter switch and shutdown
Starting Aid	Glow Plugs – automatically activated by instrument panel
Service Brake	Two independent hydrostatic systems controlled by foot pedal
Two-speed Travel	Engaged via a push button
Parking Brake	Spring applied, released by hydraulic pressure (SAPR). Activated by "Park" position in shuttle lever, or automatically when engine is not running.

INSTRUMENTATION

The following machine functions are monitored by a combination of gauges and warning lights in the operator's line of sight. The system shall alert the operator of monitored machine malfunctions by way of an audible alarm and visual warning lights.

LCD Display

Diagnostic Codes
Hourmeter
Job Clock (resettable)
Speedometer
Tachometer

Buttons

Auxiliary Hydraulics
Cruise Control
Display (speed, hours, RPM)
Lift Arm and Tilt Transport Lock
Lights
Parking Brake
Work Mode

Gauges

Engine Coolant Temperature
Fuel meter

Indicator Lights (Amber)

Auxiliary Hydraulics Enabled
Cruise Control Engaged reminder
Glow Plugs Activated
Return to Park reminder
Two-Speed engaged reminder
Work Mode indicator

Warning Lights (Red)

Fuel Level
General Warning
High Hydraulic Temperature
Lift Arm and Tilt Transport Lock
Low Engine Oil Pressure
Low Battery Voltage
Parking Brake
Seat Belt reminder

SHUT-DOWN SYSTEM

Engine will automatically shut down if any of the following conditions exceed acceptable limits:

High engine temperature
Low battery voltage
Low engine oil pressure
Engine over-speed
Fuel Temperature

SERVICEABILITY

Cab Screen Access

Battery
Air Conditioner
Condenser Alternator
Engine Oil Filter
Engine Oil Dipstick
Case Drain Hydraulic Filter

Under Cowl Access

Air Cleaner
Engine and Hydraulic Oil Coolers

- Rear cowl is equipped with a support to use while servicing the machine
- Removable seats give access to hydraulic system components
- Engine oil filter and fuel filter are accessed from under machine
- The lift arm bypass control is located under the passenger seat
- The fuses are located under the dash on passenger side

OPTIONS/ACCESSORIES

Factory Option	Field Kit	Description
X	X	27-8.5-15 (8 ply) Trac Tires
X	X	29x10.5 (8 ply) Trac Tires
X	X	29x12.5 (6 ply) Turf Tires
	X	Beacon Rotating
	X	Lower Engine Cover
	X	Lower Debris Guard
	X	Strobe Light
	X	Wide Fenders
	X	Step Kit

STANDARD FEATURES

Adjustable vinyl cushion seats
 All-wheel steer
 Automatically activated glow plugs
 Auxiliary Hydraulics:
 Variable flow with dual direction detent
 Beverage holders
 Boom float
 Cab Enclosure with Heater & Air Conditioning
 Cowl & Cowl Support
 Cruise control
 Deluxe Operator Canopy* includes:
 Front window with wipers, rear window,
 and electrical power port
 Deluxe Road Package: Backup alarm, turn signals
 flashers, trail lights, brake lights, rear view
 mirror, side mirrors, horn, rear work lights &
 headlights
 Dome Lights
 Engine and hydraulic monitor with shutdown
 Front work lights
 Full-time four-wheel drive
 Heavy duty battery
 High flow hydraulics and Attachment Control Kit (7 pin)
 Horsepower management
 Instrumentation
 Instrumentation (See Page 4)
 Interior Trim
 Joystick, Manually Controlled
 Lift arm stop
 Keyless Ignition System
 Lift Arm Support
 Limited slip transaxle
 Parking brake, automatic
 Power Steering with tilt steering wheel
 PTO (with shield and tachometer)
 Receiver hitch, Rear

STANDARD FEATURES CONT.

Rear Remote Package: Two sets of poppet-style couplers,
(For use with implement hydraulics)

Seat belts, Shoulder Harness

Storage Bins

Suspension, 4-wheel independent

Three-Point Hitch, depth position gauge

Tires: 27x10.5-15 (8 ply), Lug Tread

Toolcat Interlock Control System™ (TICS)

Traction Control System

Two-speed transmission

Warranty: 1 Year, Unlimited Hours

*Roll Over Protective Structure (ROPS)

*Falling Object Protective Structure (FOPS)

ATTACHMENTS & IMPLEMENTS

Angle Broom

Auger

Bale Fork

Box Blade

Box Scraper

Brushcat Rotary Cutter

Bucket

Chipper

Dozer Blade

Combination Bucket

Dumping Hopper

Flail Cutter

Grader

Landplane

Landscape Rake

Grapple

Rock Buckets

Tine Rake

Mower

Pallet Fork - Standard

Pallet Fork - Hydraulic

Scraper

Seeder

Snow Blade

Snow Pusher

Snow V-Blade

Snow blower

Soil Conditioner

Soil Cultivator

Sprayer & Boom

Stump Grinder

Sweeper

Three-Point Hitch

Push Broom

Sod Layer

3-Point Adapter

Tiller

Tilt-Tach

Trencher

Utility Fork

Utility/Farm Grapple

Whisker Push Broom

Angle Blade

Auger

Box Blade

Mower

Rotary Cutter

Soil Cultivator

Tiller

Tine Rake

Finish Mower

Rebar Bender

Spreader

See **Bobcat Product Price List** for specific model availability

SAFETY

- Toolcat Interlock Control System™ (TICS) (Std.) Requires the operator to be seated in the machine with the driver armrest down and the engine running before the hydraulic lift, tilt and the traction drive system can be operated. The auxiliary hydraulics shall deactivate when the operator raises the armrest.
- Lift Arm Bypass Control (Std.) Should the engine not start or a system problem occur with the lift arms raised, the lift arm can be lowered by turning the lift arm bypass control knob clockwise 1/4 turn. Then, pull up and hold until the lift arms slowly lower.
- Three-Point Seat Belts (Std.) Provided for operator and passenger. Includes a detachable shoulder harness
- Operator Cab (Std.) Cab meets ISO 3471 for Roll Over protective Structure (ROPS) and ISO 3449 Level I for Falling Objects Protective Structure (FOPS). Level I Acceptance is intended for protection from falling bricks, small concrete blocks and hand tools encountered in operations such as highway maintenance, landscaping and other construction site services.
- ANSI B56.8 Machine will fully comply with this standard (covering personnel and burden carriers) if a horn kit is added
- Rear Cowl Support (Std.) Use for servicing machine when cowl is raised
- Lift Arm Support (Std.) Use for servicing machine when lift arms are raised (stored under cargo box)
- Grab Handles (Std.) Passenger side grab handle provided. Steering wheel will function as driver side grab handle
- Hip Restraint (Std.) Provided on passenger side next to the seat
- Operator's Instructions (Std.) A weather-proof Operator's Handbook shall be affixed to the inside of the cab providing operation and maintenance instructions. Cab must provide location for storage of the Operation and Maintenance manual. Weather resistant operator handbook written in English will be located behind passenger seat, providing operational instructions and warnings by decals with pictorials and international symbols plus some messages in four basic languages: English, French, German and Spanish.

TRAINING RESOURCES

These optional videotapes and training courses are available through Bobcat Parts

Bobcat Work Machine Operator Training Course

4-hour course provides video, classroom and hands-on training (also available in Spanish)

Bobcat Work Machine Service Safety Training Course

2-hour course provides video, classroom and hands-on training

Bobcat Work Machine Safety Video

Short and to-the-point video provides basic safety instructions for the Work Machine