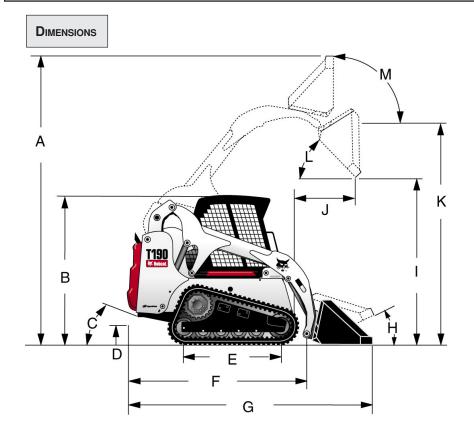
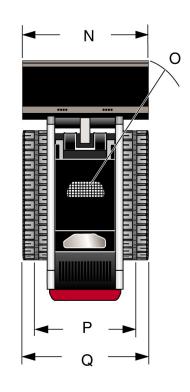
# T190 COMPACT TRACK LOADER SPECIFICATIONS





A)	Operating Height	
B)	Height with Operator Cab	76.3" (1938 mm)
C)	Angle of Departure	30°
D)	Ground Clearance	8.1" (205 mm)
E)	Ground Contact Length	55.2" (1401 mm)
F)	Length without Attachment	101.9" (2588 mm)
G)	Length with Standard Bucket	130.3" (3309 mm)
H)	Rollback @ Carry Position	25°
1)	Dump Height with Standard Bucket	91.0" (2310 mm)
J)	Dump Reach @ Maximum Height	30.9" (785 mm)
K)	Height to Bucket Hinge Pin	118.2" (3002 mm)
L)	Dump Angle @ Maximum Height	42°
M)	Rollback Fully Raised	
,	@ Maximum Height	95°
	Carry Position	

0)	Turning Radius with 68 in. Bucket	78.8"	(2001	mm)
	with 74 in. Bucket	80.2"	(2037)	mm)
	Rear Clearance of Machine			
Q)	Width (over tracks)			
	12.6 in. tracks	66.0"	(1676	mm)
	15.8 in. tracks			-
P)	Track Tread			
	12.6 in. tracks	53.4"	(1356	mm)
	15.8 in. tracks	53.4"	(1356	mm)
N)	Width over Bucket		`	,
,	68 in. Bucket	68.0"	(1727	mm)
	74 in. Bucket	74.0"	(1880	mm)

# **Performance**

Rated Operating Capacity (ISO 14397- no more than 35% of Tipping Load)	1900 lbs. (862 kg)
*Rated operating capacity (ROC) @ 35% of Tipping Load complies with ISO 14397-1 and SAE J 818	for crawler loaders.
Operating Capacity (ISO 14397 - no more than 50% of Tipping Load)	3426 lbs. (1554 kg)
Tipping Load (ISO 14397-1)	6851 lbs. (3108 kg)
Operating Weight (SAE)	7612 lbs. (3453 kg)
Operating Weight (wide track option)	7934 lbs. (3599 kg)
Travel Speed	7.1 mph (11,4 km/hr)
Lift Breakout Force (SAE)	4700 lbs. (2132 kg)
Tilt Breakout Force (SAE)	4450 lbs. (2018 kg)
Push Force	

# ENGINE/ELECTRICAL

Make/Model	Kubota/V2403M-DI-T
Fuel/Cooling	Diesel/Liquid
Horsepower (SAE Gross)	66 HP (49,2 kW)
Horsepower (SAE Net)	61 HP (45,5 kW)
Maximum Governed RPM	2700 RPM
Torque @ 1475 RPM (SAE Net)	155.6 ft-lbs. (211 Nm)
Number of Cylinders	
Displacement	
	3.43 / 4.03 in. (87,1 / 102,4 mm)
Fuel Consumption	
·	Estimated fuel consumption is based on testing by
	Bobcat Company in high duty cycle digging applications.
Lubrication	
Crankcase Ventilation	Open
Air Cleaner	Dry replaceable cartridge with safety element
Ignition	
	Propylene glycol/water mix (53%-47%) with freeze protection
<u> </u>	to -34°F (-37°C)
Starting Aid	
Alternator	
	12 volt; 600 cold cranking amps @ 0°F(-18°C);115 minute reserve capacity
	12 volt, gear reduction type; 3.62 HP (2,7 kW)

# HYDRAULIC SYSTEM

Pump TypePump Capacity	Engine Driven, ç	gear type	
StandardHigh Flow Option			
System Relief @ Quick Couplers	3250 - 3350 PS	l (224 - 231 Bar)	
Hydraulic Filter			
Hydraulic Cylinders	Double-acting; t and rollback	ilt cylinders have cushioning fo	eature on dump
Control Valve	3-Spool, open c		lift and electrically
Fluid Type	Bobcat Hydrauli	, .	328)
Bore Diameter			
Lift Cylinder (2)			
Tilt Cylinder (2)	2.75 in. (69,8 m	m)	
Rod Diameter			
Lift Cylinder (2)			
Tilt Cylinder (2)	. 1.375 in. (34,9 r	nm)	
Stroke			
Lift Cylinder (2)	, .	,	
Tilt Cylinder (2)	. 13.19 in. (335,0	mm)	
Hydraulic Function Times			
Raise Lift Arms			
Lower Lift Arms	2.4 Seconds	Bucket Rollback	.1.9 Seconds

#### **DRIVE SYSTEM**

#### **GROUND PRESSURE**

**C**APACITIES

12.6 in4.9 PSI (33,7 kPa)	Fuel Tank	28 gals. (106 L)
15.8 in4.1 PSI (28,3 kPa)	Cooling System	11 qts. (10,4 L)
	Engine Oil with Filter	9.5 qts. (9 L)
	Hydraulic/Hydrostatic Reserve	oir 4.8 gals. (18,2 L)
	Hydraulic/Hydrostatic System	1 8.5 gals. (32,2 L)
	Roller & Idlers	100 cc each

#### **C**ONTROLS

	Direction and speed controlled by two hand levers
Loader Hydraulics	
Lift & Tilt	Controlled by separate foot pedals or optional Advanced Control System (ACS)
	or optional Selectable Joystick Control System (SJC)
Front Auxiliary (Std.)	Controlled by electrical switch on Right Hand steering lever
• • • • • • • • • • • • • • • • • • • •	Controlled by electrical switch on Left Hand steering lever
Auxiliary Pressure Release	Pressure is relieved through the coupler block, push in and hold for five seconds
Engine	Hand lever throttle; key-type starter switch and shutdown
Starting Aid	Glow Plugs – automatically activated by Standard or Deluxe Instrument Panel
Service Brake	Two independent hydrostatic systems controlled by two hand operated
	steering levers
Secondary Brake	One of the hydrostatic transmissions
Parking Brake	Finger-operated rocker switch on center control panel with
	spring applied, pressure release multi disk brake

## **SERVICEABILITY**

Access is available to the following through the rear door/tailgate and rear screen

Air cleaner

Alternator

Battery

Cooling system (radiator and hydraulic oil cooler) for cleaning

Engine oil and fuel filters

Engine oil drain and dipstick

Fuel fill

Hydraulic oil fill

Starter

Bobtach pivots have replaceable wear bushings

Easy access to all lift arm grease points

Rod end of the tilt cylinder has a replaceable bushing

Tailgate has an optional lock for vandal proofing

Tailgate is equipped with door stop to hold door open while servicing

Tip-up operator cab gives access to certain hydraulic system components

#### INSTRUMENTATION

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

# **Standard Instrument Panel**

Gauges Warning Lights

Engine Coolant Temperature Advanced Control System (ACS)

Fuel Engine Air Filter

Hourmeter Engine Coolant Temperature

Engine Oil Pressure

IndicatorsFuel LevelAttachment Control DeviceGeneral WarningBICS FunctionsHydraulic Filter

Glow Plugs Hydraulic Oil Temperature

Hydrostatic Charge Pressure

Seat Belt System Voltage

## **Deluxe Instrument Panel (Option)**

Same gauges, warning lights and other features as Standard Instrument Panel plus:

Bar-type gauges: ...... Engine Oil Pressure, System Voltage, Hydrostatic Charge Pressure

and Hydraulic Oil Temperature

Attachments Information, Digital Tachometer, High Flow Lockouts, Multi-Language Display, Help Screens, Diagnostic Capability and

Engine/Hydraulic Systems Shutdown Function

#### **A**TTACHMENTS

Angle Broom\*Flail CutterSnow V-Blade\*Vibratory RollerAugerGrader\*Snowblower\*Wheel Saw\*BackhoeGrapple, Farm/UtilitySod LayerWhisker Broom

Box Blade Grapple, Industrial Soil Conditioner\*

Brush Saw Hydraulic Breaker Spreader
Brushcat Rotary Cutter Landplane Stump Grinder\*
Buckets Landscape Rake Sweeper

Chipper\* Mower Three-Point Hitch

Combination Bucket Pallet Fork - Standard Tiller

Concrete Mixer\* Pallet Fork - Hydraulic Tree Spade
Digger Planer\* Trench Compactor

Dozer Blade\*ScarifierTrencherDrop HammerScraperUtility ForksDumping HopperSnow BladeUtility Frame

For specific attachment model availability see Bobcat Product Price List.\*Requires Attachment control Kit

## **FACTORY OPTIONS**

Advanced Control System (ACS) Selectable Joystick Control (SJC) Back-up Alarm and Horn Engine Block Heater High Flow Auxiliary Hydraulics Hydraulic Bucket Positioning 16 inch rubber tracks

## **DEALER ACCESSORIES**

Attachment Control Kit Back-up Alarm Cab Accessory Harness Cab Enclosure Catalytic Exhaust Purifier Fire Extinguisher Kit FOPS Kit - Level II\*\* Four-point Lift Kit
Four-Way Flasher Light Kit
Horn
Hydraulic Bucket Positioning
Locking Fuel Cap
Power Bob-Tach
Radio

Rear Auxiliary Hydraulics Ride Control Rotating Beacon Light Side Windows Kit Single-point Lift Kit Special Applications Kit Strobe Light Kit Tailgate Lock Kit

## **AC/Heated Cab Packages**

#### **A91 Option Package**

Cab Enclosure with
Heat/Air Conditioning
High Flow Hydraulics
Power Bobtach
Sound Reduction
Hydraulic Bucket Positioning
Deluxe Instrumentation Panel
Engine Block Heater
Cab Accessory Harness
Horn
Backup Alarm
Attachment Control Kit

# A71 Option Package

Cab Enclosure with
Heat/Air Conditioning
Power Bobtach
Sound Reduction
Deluxe Instrumentation Panel
Cab Accessory Harness
Attachment Control Kit

## **A51 Option Package**

Cab Enclosure with Heat/Air Conditioning Power Bobtach Cab Accessory Harness

# **A31 Option Package**

Cab Enclosure with Heat/Air Conditioning Cab Accessory Harness

#### HEATED CAB PACKAGES

# **H71 Option Package**

Cab Enclosure with Heat Power Bobtach Sound Reduction Deluxe Instrumentation Panel Cab Accessory Harness Attachment Control Kit

# **H51 Option Package**

Cab Enclosure with Heat Power Bobtach Cab Accessory Harness H31 Option Package Cab Enclosure with Heat Cab Accessory Harness

## **OPEN CAB PACKAGES**

## **O71 Option Package**

Power Bobtach
Deluxe Instrumentation Panel
Cab Accessory Harness
Attachment Control Kit

## **O51 Option Package**

Cab Accessory Harness
Deluxe Instrumentation Panel

# SAFETY

Bobcat Interlock Control System	
(BICS) (Std.)	Requires the operator to be seated in the loader with the
	seatbar in place and the engine running. After the operator presses the "Press to Operate Loader" button, the loader's hydraulic lift and tilt functions and traction drive system can be operated.
Lift Arm Bypass Control (Std.)	Used to lower the lift arms in the event that the lift arms cannot
	be lowered during normal operating conditions
Seat Belt (Std.)	Should always be worn when operating the loader
Seat Bar (Std.)	Secondary operator restraint, also serves as an arm rest
Operator Cab (Std.)	
,	inside cab width of 33" (838 mm) as standard equipment.
	Meets SAE J1040 and ISO 3471 for Roll Over Protective Structure (ROPS) and SAE J1043 and ISO 3449 Level I for Falling Object Protective Structure (FOPS). Level II option is available.
	·

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.

Level II – Acceptance is intended for protection from falling trees or rocks for machines involved in site clearing, overhead demolition or forestry.

Safety Tread (Std.)Slip	
Attachment Steps (Std.) Sho Rear Window (Std.) For Front & Rear Working Lights (Std.) Use Backup Alarm (Opt.) For Lift Kits (Opt.) Lift Special Applications Kit (Opt.) Res Operator's Handbook (Std.) Wea atta	ould always be used when entering/exiting loader emergency exit e for indoor and low light operation

## TRAINING RESOURCES

These optional videotapes and training courses are available through Bobcat Parts

Bobcat Skid-Steer Loader Operator Training Course

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

Bobcat Skid-Steer Loader Service Safety Training Course

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

Bobcat Skid-Steer Loader Safety Video

Short and to-the-point video provides basic safety instructions for the Skid-Steer Loader