

# TOWN OF SARATOGA

P.O. BOX 486  
110 E. Spring Avenue  
SARATOGA, WYOMING 82331  
[www.townofsaratoga.org](http://www.townofsaratoga.org) Phone: 307-326-8335 Fax: 307-326-8941  
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## Request for Bids: Compact Track Loader “PW-Compact Track Loader-2026” Specifications

### Section 1. Advertisement

The Town of Saratoga Public Works Department is seeking a qualified vendor to supply a new compact track loader. Specifications for the compact track loader can be acquired from the Public Works Director by email, at [e.penner@saratogawyo.org](mailto:e.penner@saratogawyo.org). Sealed bids shall be sealed and submitted to the Town using the enclosed bid form provided in the specification documents. Bids shall be either hand-delivered to Town Hall, at:

Town of Saratoga, Town Hall  
110 E. Spring Avenue  
Saratoga, WY 82331

or by US mail in sealed envelopes marked “PW-Compact Track Loader-2026” and addressed to:

Town of Saratoga  
c/o Emery Penner, Public Works Director  
P.O. Box 486  
Saratoga, Wyoming 82331

Electronic submission of bids shall not be accepted. Bids shall be received until:

**Thursday, February 26th, 2026 @ 4:00 PM,**

and at said time, bids will be opened and read aloud. The bid opening will be held in-person at Saratoga Town Hall. All pre-bid correspondence shall be submitted electronically to Emery Penner, Public Works Director, at [e.penner@saratogawyo.org](mailto:e.penner@saratogawyo.org). Questions regarding this bid/ proposal shall be accepted until 2:00 PM, Thursday, February 16, 2026. The Town of Saratoga reserves the right to waive any informality in the bids, to accept any bid, and to reject any or all bids, should it be deemed in the best interest of the Town to do so. The Town of Saratoga further reserves the right to cancel or amend this RFB at any time.

For questions concerning this RFB, please contact the Saratoga Public Works Department at 307-447-2882 or at [e.penner@saratogawyo.org](mailto:e.penner@saratogawyo.org).

### Section 2. Requirements of this RFB

- The enclosed bid form shall be fully completed and submitted by the due date.
- Each bidder shall provide evidence of adherence to the specifications within this RFB.
- Any items not specifically noted or specified in this RFB, that is required in order to supply the equipment requested, shall be considered incidental. Bidders shall provide lump sum pricing on the bid form.
- Bidder shall note any deviations from the specifications on the enclosed bid form.
- Each bidder shall provide a warranty period for the equipment provided on the enclosed bid form.
- The equipment shall be delivered no later than 60 days after bid acceptance.
- The equipment shall be completely inspected and serviced by the bidder prior to delivery.

### **Section 3. Acceptance of Bid**

The acceptance of the bids shall be based on the following criteria:

- Low Responsive Bidder (This includes the lowest price including the reduction in final price due to any trade ins).
- Adherence to the Specifications.
- Delivery Date

### **Section 4. Machine Specifications**

#### **Limited Manufacturer Solicitation**

Due to existing fleet conditions. This solicitation is limited to compact track loaders manufactured by Caterpillar or CASE Construction Equipment.

The Town of Saratoga has standardized its earth moving equipment fleet on these manufacturers based on existing equipment, operator training, parts inventory, maintenance practices, and proven dealer service support. Limiting this procurement to these manufacturers is necessary to ensure compatibility with Town-owned attachments, reduce training and maintenance costs, minimize downtime, and protect the Town's investment in existing equipment.

This limitation is not intended to restrict competition unnecessarily. Competition remains available among multiple authorized dealers offering the specified manufacturers. Bids proposing equipment from other manufacturers will be considered non-responsive.

#### **1. General Configuration**

- Compact Track Loader (CTL)
- Vertical lift geometry (required)
- New, current production
- Designed for heavy-duty municipal use
- Fully enclosed cab

#### **2. Engine & Power**

- Turbocharged diesel engine
- EPA Tier 4 Final compliant
- Minimum net engine power: 82 horsepower, rated in accordance with SAE J1349
- Liquid cooled
- DEF aftertreatment as required by manufacturer

#### **3. Operating Performance**

- Rated Operating Capacity (35%): minimum 3,100 lbs
- Tipping Load: minimum 9,000 lbs
- Vertical lift suitable for truck loading
- Breakout force appropriate for municipal material handling

#### **4. Operating Weight**

- Minimum operating weight: 11,000 lbs
- Counterweights may be used to achieve the minimum operating weight

#### **5. Hydraulics**

- Standard auxiliary hydraulic flow: minimum 23 GPM
- High-flow auxiliary hydraulics: minimum 34 GPM
- Minimum auxiliary hydraulic pressure: 3,450 PSI
- Flat-face, connect-under-pressure couplers
- Continuous auxiliary flow capability
- Case drain line provided

#### **6. Undercarriage & Tracks**

- Rubber track undercarriage
- Track width: minimum 17.7 inches
- Suspension or torsion-style track system
- Ground pressure suitable for paved and landscaped surfaces

#### **7. Cab & Operator Controls**

- Fully enclosed cab
- Factory-installed heater and air conditioning
- Suspension seat with seat belt
- Electro-hydraulic joystick controls
- Controls shall be electronically switchable between ISO and H control patterns from within the cab
- Digital or LCD operator display with diagnostics
- Rearview mirror
- Audible backup alarm

#### **8. Rear Visibility & Backup Camera**

- Rear-facing backup camera required
- Image displayed on integrated machine display or permanently mounted in-cab monitor
- Automatic activation when machine is placed in reverse
- OEM or OEM-approved system
- Fully operational upon delivery

#### **9. Electrical & Lighting**

- 12-volt electrical system
- Minimum 1,000 CCA battery
- Battery disconnect switch
- LED work lights (front and rear)
- Pre-wired or factory-installed beacon capability

### **10. Attachments & Compatibility**

- Universal skid-steer quick coupler
- Compatible with Town-owned attachments
- No proprietary attachment interface requiring adapters

### **11. Telematics**

- Factory-installed telematics system
- Remote diagnostics capability
- Subscription term to be stated in bid = 7 years

### **12. Warranty**

- Manufacturer's standard warranty with a minimum coverage period of two (2) years
- Warranty shall cover defects in materials and workmanship for major machine components

### **13. Delivery**

- FOB Town of Saratoga
- Equipment shall be delivered fully assembled and ready for service

## **Section 5. Trade-In**

The Town of Saratoga will be trading in its Case Skid steer.

Serial #: KAF424422

Model: 440

Year: 200~~26~~

Hours: 2120

The machine can be at the Town of Saratoga Streets shop at:

TOS Streets Shop

303 S. River

Saratoga, WY 82331

(See pictures below)

**“PW-Compact Track Loader-2026”**  
**Bid Proposal Form**

The undersigned agrees to provide the Compact Track Loader as specified in the RFP and as bid below:

Lump Sum Compact Track Loader per Specifications: \$ 92,483.00

Value of Trade In(s) : \$ 15,853.00

Total Net Bid: \$ 76,630.00

Warranty Info: Full machine warranty for 24 months or 2000 hours  
whichever comes first.

Delivery Date: 30 days ARO

Deviations from Specifications:

- none.

**NOTE:**

Telematics Subscription = 7 years.

Signed: 

Printed Name: David Weller

Company: Torgerson's Equipment

Address: 4802 S. Garner Lake Road, Gillette, WY 82718

Gillette contact:

E-mail Address: daniel.blakeman@torgersonsequipment.com

Phone #: ~~406~~ 307-622-3871



**CNH Industrial America LLC  
and CNH Industrial Canada, Ltd.**

**WARRANTY AND LIMITATION OF LIABILITY AGREEMENT  
LIGHT - CASE CONSTRUCTION EQUIPMENT**

**The Case Warranty**

The Case Warranty is a limited warranty that is provided to the initial retail purchaser in return for consideration paid as part of the purchase price of the product. The selling dealer is expected to review the warranty coverage with the initial retail purchaser and obtain his/her signature on this document.

**New Limited Warranty**

The warranty described here is from CNH Industrial America LLC and in Canada, CNH Industrial Canada Ltd., both of which are referred to in this agreement as "Case" for the Case Construction Brand. This warranty is for Case products sold and registered in the United States or Canada and normally operated in the United States or Canada. This warranty does NOT apply to any product normally operated outside of the United States and/or Canada, or to any unit purchased outside of the United States or Canada and imported in for any reason other than a customer relocation/personal move.

**Warranty Period**

For the products listed below, the Warranty Period for all coverage begins at the time that any person, dealer or agent first places the unit into service. At the latest, a unit is considered to be placed into service when purchased or delivered to an initial retail purchaser. Certain demonstration, rental, lease, and other used units may be eligible for a portion of a new unit warranty. The availability of the remaining portion of a new unit warranty does not mean that a unit is new or unused. The Warranty Period ends when either the month or machine hour limit is reached, whichever limit occurs first.

CASE LIGHT PRODUCT	BASE WARRANTY	EXTENDED WARRANTY	NOTES
SKIDSTEER / COMPACT TRACK LOADERS / COMPACT DOZERS LOADER / MINI TRACK LOADER Case / Perkins Engines (Warranty through Case)	12 Mo. / Unlimited Hrs	24 Mo. / 2000 Hrs 24 Mo. / 2000 Hrs	Notes 3, 4
LOADER BACKHOES Case Engines, Torque Converter, Transmission, Drive Shafts & Drive Axles	12 Mo. / Unlimited Hrs	24 Mo. / 2000 Hrs	Notes 1, 3
TRACTOR LOADERS FORKLIFTS Case Engines, Torque Converter, Transmission, Drive Shafts & Drive Axles	12 Mo. / Unlimited Hrs	24 Mo. / 2000 Hrs	Notes 1, 3
COMPACT EXCAVATORS CX-B SERIES Yanmar Engines (Warranty through Case)	12 Mo. / 1000 Hrs	12 Mo / 1000 Hrs	Notes 2, 3
COMPACT EXCAVATORS CX-C, CX-D SERIES, COMPACT EXCAVATORS CX-EV SERIES Yanmar / Perkins / Kubota Engines (Warranty through Case) Lithium-Ion Battery and High Voltage Electrical Components (Warranty through Case)	24 Mo. / 3000 Hrs 24 Mo. / 2000 Hrs	24 Mo. / 3000 Hrs 36 Mo. / 3000 Hrs	Notes 2, 3
MID-SIZED COMPACT EXCAVATORS – CX75/CX80 CX-C Series Isuzu Engines (Warranty through Case)	12 Mo. / 1800 Hrs	24 Mo. / 2000 hrs	Notes 2, 3
COMPACT WHEEL LOADERS Case Engines (Warranty through Case)	12 Mo. / Unlimited Hrs	24 Mo. / 2000 Hrs	Note 3
SMALL ARTICULATED LOADERS Kubota Engine (Warranty through Kubota) Lithium-Ion Battery and High Voltage Electrical Components (Warranty through Case)	24 Mo. / 1000 Hrs	24 Mo. / 2000 Hrs 36 Mo. / 3000 Hrs	

- 1) Torque converter, transmission, drive shafts, & drive axles are covered for 24 months / 2000 hours.
- 2) Warranty does not cover any configuration excavator equipped with feller buncher/accumulator attachments
- 3) Engine warranty coverage is provided through Case.
- 4) Second year machine warranty coverage after base warranty expires

**Operator's Manual / Warranty Receipt Verification**

- YES xx / NO The selling dealer has reviewed the correct operator's manual with me and will provide the operator's manual upon delivery of the product.
- YES xx / NO The selling dealer has explained safety precautions to me.
- YES xx / NO The selling dealer has explained the warranty terms and coverage to me.
- YES xx / NO The selling dealer has explained Purchased Protection Plan options for additional coverage on select components.
- YES xx / NO The selling dealer has provided me copies of the Telematics & Correction End-User License Agreement and the Telematics Privacy Statement and I have signed Attachment A (Telematics Services – Purchaser Acknowledgement and Agreement to the Telematics and Correction End-User License Agreement and The Telematics Privacy Statement).

Model:	Serial Number:	Hours:	Ops man. Number:
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Model:	Serial Number:	Hours:	Ops man. Number:
Retail DATE:		Usage:	
Purchaser Name (please print):		Dealer Name: <b>TORGERSON'S EQUIPMENT</b>	
Address:		Address: 1728 OLD HARDIN RD	
City / State/Province:		City / State/Province: BILLINGS, MT	
Zip code:		Zip code: 59101	
Phone Number:		Phone Number: 406-259-5500	

See page 2 and 3 for important limitations and exclusions

Customer Initials: \_\_\_\_\_ Dealer Initials: \_\_\_\_\_

**What's Covered**

Subject to the terms of this agreement, if a defect in material or workmanship is found in a unit and reported during the Warranty Period, Case will pay parts and labor costs to repair the defect if the services are performed by an authorized Case dealer at the dealer's location. If parts are needed during the repair, Case will, at its option, use genuine Case new, and/or remanufactured parts. Case replacement parts that are used in a warranty repair are warranted until the end of the machine warranty or to the end of the Case Replacement Parts Warranty, whichever is longer. Exceptions include items described in the "What's not Covered" section below.

CASE PROVIDES NO WARRANTY, EXPRESS OR IMPLIED, FOR A COMPONENT OR OTHER ITEM THAT IS SEPARATELY WARRANTED TO THE PURCHASER BY ITS MANUFACTURER, SUCH AS TIRES, BATTERIES AND FUEL INJECTION COMPONENTS. CHECK WITH YOUR DEALER FOR DETAILS.

**No Modification or Extension of Warranty Period**

The Case warranty is limited to the written terms in this agreement. Case does not authorize any person, dealer or agent to change or extend the terms of this warranty in any manner. Any assistance to the purchaser in the repair or operation of any Case product outside the terms or limitations or exclusions of this warranty will not constitute a waiver of the terms, limitations or exclusions of this warranty, nor will such assistance extend or re-establish the warranty.

**EXCLUSIVE REMEDY**

**THE REMEDY OF REPAIRING A DEFECT IN MATERIALS OR WORKMANSHIP AT A CASE DEALERSHIP UNDER THE TERMS OF THIS WARRANTY IS THE PURCHASER'S EXCLUSIVE REMEDY AND IS IN LIEU OF ANY OTHER REMEDY OTHERWISE AVAILABLE.**

**This Warranty is Void If**

The unit's hour meter is changed or altered, unless a Case dealer, at the direction of Case, changed the meter. If the unit is modified or used in an application for which it is not designed, or the unit has been scrapped, salvaged, stolen, junked or totaled.

**Limitation and Exclusions** The Case warranty gives you specific legal rights and you may also have other rights, which vary, from region to region.

**THIS DOCUMENT CONTAINS THE ENTIRE CASE WARRANTY. CASE MAKES NO OTHER REPRESENTATIONS OR WARRANTIES, EXPRESSED OR IMPLIED, AND SPECIFICALLY EXCLUDES THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE. CASE WILL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM A BREACH OF THE WRITTEN WARRANTY OR ANY IMPLIED WARRANTY IMPOSED BY LAW.**

**Owner's Responsibility**

The Case warranty remains in effect during the Warranty Period if the owner performs the required maintenance at the recommended intervals outlined in the product operator's manual and the unit is operated within its rated capacity. Genuine Case service parts or Case approved service parts that meet Case specifications must be used for maintenance and repair. The owner must present the unit to an authorized CASE dealer to get a repair covered under warranty.

**What's Not Covered**

- Unless otherwise prohibited by state law, the following are not covered by this Warranty and Limitation of Liability Agreement:
  - Cost associated with performing pre-delivery or scheduled inspection service.
  - Repairs arising from storage deterioration, failure to maintain the equipment, negligence, alteration, improper use of the equipment, collision or other accident, vandalism, or other casualty, or operation beyond rated capacity or specification.
  - Repairs arising from abuse or neglect, including but not limited to: operation without adequate coolant or lubricants, adjustments to the fuel system outside equipment specifications, over-speeding, improper storage, starting, warm-up, or shutdown practices, incorrect fuel or contaminated fuel, oil or other fluids.
  - Normal maintenance services, such as engine tune-ups, engine fuel system cleaning, checks, adjustments, shimming, etc.
  - Replacement of non-defective wear items expected to be replaced during the warranty period, including but not limited to: light bulbs, spark plugs, ignition points, brake or clutch linings, slip clutches, belts, chains, knives, bucket cutting edges and teeth, crawler track pads and track components, crop processing and cutting components, external drive sprockets and chains, soil engaging tools and accessories.
  - Items replaced due to customer demand.
  - Labor charges performed by anyone except a dealer authorized by contract to repair the equipment, unless they qualify under special provisions (i.e.; outside labor).
  - Any and all travel costs for items such as towing, service calls, or transporting a unit to and from the place where the warranty service is performed, unless specifically covered by a product improvement program or units classified as heavy and/or compaction products
  - Claims involving loss or damage during shipment or handling, including units subsequently sold as a "salvage" unit.
  - "Salvage" or other units sold on an "as is" basis, unless otherwise specified in writing at the time of sale.
  - Normal maintenance costs, including but not limited to: lubricants, coolants, fluids, fuel, filters, and associated labor. Lubricants, filters, and coolants may qualify for warranty reimbursement if they require replacement as a DIRECT RESULT of a defect in material or workmanship.
  - Claims involving the inspection or reconditioning of units after storage or prior use.
  - Components or items that are separately warranted directly by the manufacturer including but are not limited to: tires, tracks, engines, transmissions, batteries, fuel injection pumps, fuel injectors, etc.
  - Shop comebacks: any duplicate, repeat, or comeback repair resulting from improper diagnosis, testing, or service work. This also includes repairs arising from service performed by agents not approved by Case.
  - Repairs arising from any unauthorized modification to the product or the use on non-CNH Industrial parts, implements, or attachments, including but not limited to performance changing (i.e., increasing horsepower or other modifications) and/or emissions defeating modifications.
  - Removal, replacement, or installation of non-CNH Industrial optional equipment, attachments or components.
  - Premiums charged for overtime labor costs or out of shop expenses.
  - Economic loss including lost profits, crop loss, crop damages, equipment rental, contract delay, project expenses, or other expenses or damages.
  - Unauthorized modification or updating machines without a warrantable failure based on Service Bulletin information or production changes.
  - Any and all costs of special tools
  - Any and all costs of dealer shop supplies incurred with repairs, including but not limited to: solvents, cleaners, anti-seize lubricants, loctite, sealant, adhesive, oil-dry, shop towels, etc. Sealant or adhesive may qualify for warranty reimbursement in certain applications requiring a large volume of sealant/ adhesive.
  - Failure of the machine, its implements or attachments caused by improper field application or loading.
  - Any and all costs for coolant, fuel, or lube (oil) analysis including supplies and lab recommendations.
  - Cost of initial setup or installation of any optional equipment or attachments to a unit.
  - Cost associated with cleaning of machine in preparation for servicing
  - Claims or repairs associated with owner's failure to maintain or charge lithium-ion battery as recommended by the manufacturer.
  - Lithium-ion battery pack capacity loss or increased resistance due to product aging outside the normal course of operation.
  - Claims or damages arising out of the installation or improper use of lithium-ion battery.
  - Claims or damages arising out of the operation of an electric vehicle in an unintended manner (including, but not limited to, improper use or use of the vehicle in an environment outside the recommended temperature range or humidity levels recommended in the operator's manual), failure to maintain, or outside recommended storage conditions (including, but not limited to, storage in an overly discharged state).
  - All damages covered by a policy of insurance.
    - *To the extent that any damage to the product is covered by any policy or policies of insurance, Owner expressly agrees to waive any subrogation rights arising from the policy or policies of insurance. It is expressly agreed and understood that no insurance company or insurer will have any right of subrogation against CNH Industrial America LLC, CNH Industrial Canada Ltd., or any of their subsidiaries or affiliates.*

Customer Initials: \_\_\_\_\_ Dealer Initials: \_\_\_\_\_



## ENGINE

Model	FPT F5B FL413 D*C001
Emissions Certification	Tier 4 Final
Type	Diesel 4-stroke, Turbo, D.I.
Cylinders	4
Bore/Stroke	3.9 x 4.3 in (99 x 110 mm)
Displacement	207 in <sup>3</sup> (3.4 L)
Fuel injection	Direct, high pressure common rail – HPCR
Fuel	#2 Diesel
Fuel filter:	
Pre-filter	Beta (30) = 200/spin-on
Main filter	Beta (4) = 20/spin-on
Air intake	Turbocharged w/ waste gate and external cooled EGR
Exhaust aftertreatment	Selective Catalytic Reduction (SCR)
Cooling	Liquid
Engine speeds	RPM
High idle – no load	2500 +/- 25
Rated – full load	2500
Low idle	1150 +/- 25
Horsepower @ 2500 RPM – SAE J1349:	
Gross	90 hp (67 kW)
Net	84 hp (63 kW)
Peak torque @ 1400 RPM	282 lb-ft (383 N-m)
Radiator:	
Core type	Aluminum bar and plate
Core size area	319 in <sup>2</sup> (0.206 m <sup>2</sup> )
Rows of tubes x columns	21 rows
Cap pressure	16 +/- 2 psi (1.10 +/- 0.14 bar)
Fan:	
Diameter	22 in (560 mm)
Ratio	0.96:1 standard, 1.1:1 high-flow
Water pump:	
Style	Centrifugal
Flow	47.8 gpm (181 L/min)
Engine lubrication pump:	
Rotor pump w/ deep sump pan, plate cooler and pressurized under-piston nozzles	
Pump operating angle ratings:	
Side to side	45°
Bucket up	35°
Bucket Down	45°

## LIFT GEOMETRY

Vertical Lift

## DRIVE TRAIN

Drive pump controls	Servo-assist mechanical
Pump to engine ratio	1:1
Displacement	2.81 in <sup>3</sup> (46 cm <sup>3</sup> )
Flow @ rated engine RPM:	
@ 97% efficiency	29.4 gpm (111 L/min)
Charge pressure	360 psi (24.5 bar)
System relief pressure	5,220 psi (360 bar)

Drive pump controls	Electro-hydraulic
Pump to engine ratio	1:1
Displacement	2.75 in <sup>3</sup> (45 cm <sup>3</sup> )
Flow @ rated engine RPM:	
@ 97% efficiency	28.8 gpm (109 L/min)
Charge pressure	362 psi (24.5 bar)
System relief pressure	5,220 psi (360 bar)

Drive motors:	
Max. displacement	3.10 in <sup>3</sup> (50.9 cm <sup>3</sup> )
Displacement:	
High speed	2.02 in <sup>3</sup> (33.1 cm <sup>3</sup> )
Motor RPM @ high idle and 97% efficiency:	
2-speed	156
Motor torque @ max. displacement and relief pressure, calculated @ 5,220 psi (360 bar):	4,654 lb-ft (6 310 N-m)

Travel speed:	
Low range	5.5 mph (8.9 kph)
High range	8.0 mph (12.9 kph)

Final drive:	
Planetary gearbox w/ 2-speed motor	
Tractive effort	7,414 lb (3 370 kg)

Parking brake:	
Type	Spring-applied, hydraulic release multiple disc.
Engagement	Depress on/off brake button on handle or instrument panel, raise seat bar, get off seat or stop engine.

## ELECTRICAL

Alternator	160 amp
Starter	4.29 hp (3.2 kW)
Battery	12-volt low-maintenance 1,000 cold-cranking amps @ 0° F (-18° C°)

## OPERATOR ENVIRONMENT

ROPS/FOPS Level 1 canopy w/ side screens; Keyed start ignition; Tilt ROPS/FOPS; Rear window w/ emergency escape; Suspension Seat, vinyl w/ 2 in (51 mm) retractable 3 point lap seat belt; Hand and foot throttles; Alarm package – back-up and horn; Rearview mirror; Headliner; Dome Light; Top window; Cup holder; 12V Power plug socket; Foot rest; Seat pocket; Padded seat bar w/ integral armrests; Loader control lockout system; Electric parking brake control; Operator's compartment floor cleanout; Proportional

auxiliary hydraulic control – on joystick; Advanced Instrument Cluster w/ digital hour meter, tachometer, Fuel level LCD bar graph w/ alarm, diagnostic features and security lockout; Electro-hydraulic controls: For drive/steering, loader functions, Switchable between H and ISO patterns, Adjustable sensitivity of controls.

Warning lights with alarms:  
Engine coolant temperature; Engine oil pressure; Engine malfunction; Hydraulic charge pressure; Hydraulic filter restriction; Hydraulic oil temperature: Critical system stop, Engine system, Hydraulic system, Electrical and diagnostic system.

Warning alarms:  
Battery voltage – plus display; Oil service.

Indicator light:  
Engine preheat; Parking brake;  
Seat bar reminder.

## OPERATING WEIGHT

Unit equipped w/ open cab; 165 lb operator; 78 in Heavy Duty bucket; full of fuel:	10,610 lb (4 823 kg)
Shipping weight	10,267 lb (4 667 kg)
Add-on weights:	
Side cab glass	47 lb (21.3 kg)
Polycarbonate cab door	75 lb (34.0 kg)
Glass cab door w/ wiper	75 lb (34.0 kg)
Suspension seat	22 lb (10.0 kg)
Additional counterweight	600 lb (273 kg)

## HYDRAULICS

Implement pump type	Gear
Displacement:	
Standard aux.	2.23 in <sup>3</sup> (36.6 cm <sup>3</sup> )
High-flow aux.	1.42 in <sup>3</sup> (23.3 cm <sup>3</sup> )
Standard flow @ rated engine RPM: @ 100% efficiency	24.2 gpm (91.5 L/min)
Optional high-flow @ rated engine RPM: @ 100% efficiency	39.5 gpm (149 L/min)
Enhanced high-flow @ rated engine RPM: @ 100% efficiency	35.0 gpm (132.5 L/min)
Loader control valve:	
Type	3 spool/open center/series - series
Relief pressure	3,450 psi (238 bar)
Port relief pressures:	
Loader raise	3,625 psi (250 bar)
Bucket curl	3,916 psi (270 bar)
Bucket dump	3,625 psi (250 bar)
Hydraulic lines:	
Tubing	ORFS + 37° JIC Flare
Loop hoses	SAE 100 R19
Hydraulic oil cooler:	
Number of fins	10 per inch (3.94 per cm)
Number of tube rows x columns	9 bar/plate
Area	138.7 in <sup>2</sup> (890 cm <sup>2</sup> )
Hydraulic filter	Beta (4) = 75/spin-on

### HYDRAULICS CONT.

Lift cylinders:	
Bore diameter	2.75 in (69.85 mm)
Rod diameter	1.75 in (44.5 mm)
Stroke	35.7 in (908 mm)
Closed length	53.9 in (1 369 mm)
Bucket cylinders:	
Bore diameter	3.0 in (76.2 mm)
Rod diameter	1.5 in (38.1 mm)
Stroke	15.9 in (405 mm)
Closed length	24.3 in (617.0 mm)

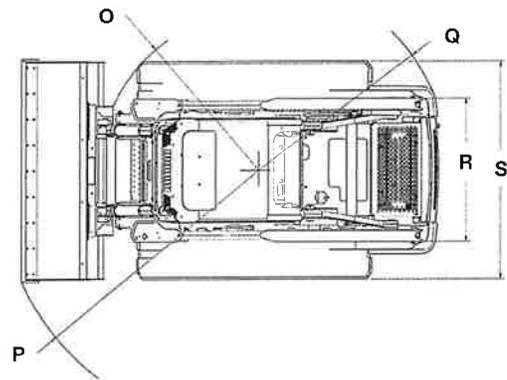
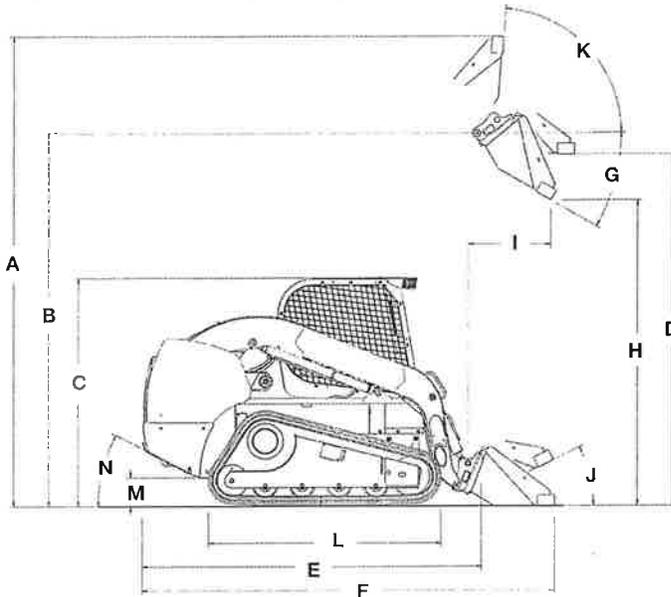
### SERVICE CAPACITIES

Fuel Tank	25.5 gal (96.5 L)
Engine oil w/ filter	8.9 qt (8.5 L)
Hydraulic system:	
Reservoir	6.0 gal (22.7 L)
Total	11.9 gal (45.4 L)
Diesel Exhaust Fluid (DEF) Tank	2.8 gal (10.7 L)

### PERFORMANCE SPECS

Rated operating capacity – ROC*:	
35% of tipping load	3,150 lb (1 432 kg)
50% of tipping load	4,500 lb (2 045 kg)
w/ additional counterweight	4,700 lb (2 135 kg)
Tipping load*	9,000 lb (4 091 kg)
Breakout forces @ 3,150 psi (217 bar)*:	
Bucket Cylinders	9,188 lb (41.8 kN)
Lift cylinders – hydraulic limit	7,773 lb (35.3 kN)
Cycle times:	
Raise	5.1 sec
Lower	3.5 sec
Dump	2.7 sec
Roll back	2.0 sec

NOTE: \*Measured using 78 in (1.98 m) heavy-duty bucket.



Line drawings are for illustrative purpose only and may not be exact representation of unit.

### DIMENSIONS

A. Overall operating height:	
with foundry/excavating bucket	161.4 in (4.10 m)
with heavy duty bucket	165.6 in (4.21 m)
with low profile extended bucket	170.4 in (4.33 m)
Height to:	
B. Bucket hinge pin	131.6 in (3.34 m)
C. Top of ROPS	80.4 in (2.04 m)
D. Bottom of level bucket, fully raised	123.2 in (3.13 m)
Overall length:	
E. without attachment with coupler	120.2 in (3.05 m)
F. with foundry/excavating bucket on ground	144.4 in (3.67 m)
with heavy duty bucket	148.6 in (3.78 m)
with low profile extended bucket	153.5 in (3.89 m)
G. Maximum dump angle	45.3°
H. Dump height:	
with foundry/excavating bucket	104.1 in (2.65 m) @ 45.0°
with heavy duty bucket	101.1 in (2.57 m) @ 45.0°
I. Dump reach at maximum height with low profile extended bucket	35.1 in (0.89 m) @ 45.0°
Maximum attachment rollback:	
J. Bucket on ground	32.0°
K. Bucket at full height	83.1°
L. Track on ground	64.5 in (1.64 m)
M. Ground clearance – bottom of belly pan	9.5 in (0.24 m)
N. Angle of departure	32.0°
Clearance circle:	
O. without bucket	57.7 in (1.47 m)
P. with 78 in (1.98 m) foundry/excavating bucket on ground	87.8 in (2.23 m)
Q. Clearance circle rear	68.6 in (1.74 m)
R. Track gauge	58.6 in (1.49 m)
S. Over the track width	76.5 in (1.94 m)

**TRACK SELECTION**

Type	Area	Ground Pressure	Width to Outside Track
17.7 in (450 mm)	2,286 in <sup>2</sup> (1.48 m <sup>2</sup> )	4.6 psi (31.7 kPa)	76 in (1.93 m)

**OPTIONAL BUCKETS**

Type	Width	Weight	Heaped Capacity
Dirt & Foundry	78 in (1.98 m)	440 lb (200 kg)	17.7 ft <sup>3</sup> (0.50 m <sup>3</sup> )
Low Profile Extended	78 in (1.98 m)	540 lb (245 kg)	19.1 ft <sup>3</sup> (0.54 m <sup>3</sup> )
	84 in (2.13 m)	575 lb (262 kg)	20.5 ft <sup>3</sup> (0.58 m <sup>3</sup> )
Light Material	84 in (2.13 m)	540 lb (245 kg)	27.5 ft <sup>3</sup> (0.78 m <sup>3</sup> )
Heavy-Duty	78 in (1.98 m)	530 lb (240 kg)	15.5 ft <sup>3</sup> (0.44 m <sup>3</sup> )
	84 in (2.13 m)	550 lb (250 kg)	17.0 ft <sup>3</sup> (0.48 m <sup>3</sup> )
Heavy-Duty Extended with SmartFit Teeth	78 in (1.98 m)	697 lb (316 kg)	18.9 ft <sup>3</sup> (0.54 m <sup>3</sup> )
	84 in (2.13 m)	728 lb (330 kg)	20.5 ft <sup>3</sup> (0.58 m <sup>3</sup> )

## STANDARD EQUIPMENT

### OPERATOR ENVIRONMENT

See page 1

### ENGINE

Dual element air cleaner  
Organic Acid Technology (OAT)  
Anti-freeze solution to -34° F  
Fuel tank - 25.5 gal (U.S.)  
Over and under radiator and oil cooler  
3-stack after cooler/radiator/oil cooler configuration  
Glow plugs  
Integral engine oil cooler  
Fuel filter with water trap  
1,000 CCA 12V battery  
Master electrical disconnect  
Jump start terminal

### DRIVETRAIN

2-speed hydrostatic  
SAHR disc parking brake

## OPTIONAL EQUIPMENT

### OPERATOR ENVIRONMENT

Enclosed cab:  
Fully sealed and pressurized - FSP  
Glass door with wiper and washer  
Sliding side windows - removable  
Ventilation system with integrated heater  
Heater and air conditioner  
AM/FM Bluetooth radio with 2 speakers and USB port  
Keyless start ignition  
8 in Color LCD Display  
Economy Mode (auto idle shutdown)  
Auto Engine Protection Shutdown  
Mechanical hand controls  
Hand and foot controls:  
Hand controls the loader drive function and foot controls the bucket and boom  
Deluxe cloth, air suspension seat, with heater and lumbar support  
Demolition cab door with polycarbonate  
Ignition Timeout  
Machine Settings User Access Levels  
Operator Security Codes  
Auto Idle settings

### HYDRAULICS

Auxiliary hydraulics:  
@ 3,450 psi (238 bar) - 24.2 gpm (91.5 L/min)  
6 micron oil filtration system  
3-spool loader control valve  
Auxiliary hydraulic disconnects, ISO flat-face - connect-under-pressure with case drain  
Hydraulic circuit pedal lock  
Auxiliary function lockout override  
Loader lift lockout override  
Heavy-duty hydraulic oil cooler  
Loader arm float position  
Loader function lockout system

### LOADER

Manual attachment coupler  
Vertical lift geometry  
Loader lift arm support strut  
SAE operating load: 3,150 lbs  
Tipping load: 9,000 lbs

### HYDRAULICS

High-flow auxiliary hydraulics - combined:  
@ 3,450 psi (238 bar) - 39.5 gpm (149 L/min)  
Enhanced High-Flow auxiliary hydraulics - EHF:  
@ 4,000 psi (276 bar) - 35.0 gpm (132.5 L/min)  
Second auxiliary hydraulics  
Hydraulic one-way self-leveling  
Ride control

### LOADER

Auxiliary front electric control  
Hydraulic attachment coupler

### DRIVETRAIN

Creep Speed Mode (for EH machines only)  
EZ Trac - suspension track with bogey wheel design

### TRACKS

Rubber Tracks

### OTHER STANDARD FEATURES

LED lights - 2 front, 2 side, 2 rear flood  
Pre-wired for rotating beacon  
Lockable service access hood  
Single-point daily servicing  
Rear tail lights  
Remote oil and fuel filters  
Block heater  
Debris ingress sealing  
Mounting points for add-on counterweights

### TELEMATICS

CASE SiteWatch™ Telematics - includes hardware and a 5-yr data subscription  
SiteConnect Module providing remote diagnostics capability

### FACTORY SUPPLIED ATTACHMENTS

Rotating beacon  
Four point lift hook  
48 in (1.22 m) pallet forks

### SERVICE PARTS

Add-on counterweights  
Road lights  
Four-corner LED strobe  
Single point lift hook  
Aspirator  
Precleaner  
3 inch (76.2 mm) retractable seat belt  
Bolt-on heavy-duty bucket teeth

### OTHER

Language decals  
Buckets - see page 3  
Bolt-on bucket cutting edges  
Bolt-on heavy-duty bucket spill guard  
Special paint  
Offsite service arrangement

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TV450B

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CASE Construction Equipment is biodiesel-friendly. NOTE: All engines meet current EPA emissions regulations. All specifications are stated in accordance with SAE Standards or Recommended Practices, where applicable.



Always read the **Operator's Manual** before operating any equipment. **Inspect** equipment before using it, and be sure it is operating properly. Follow the product safety signs and use any safety features provided.