

# 40XT Skid Steer



## ENGINE

Model ..... Case 4-390 diesel  
Type..... 4-stroke, naturally aspirated  
Cylinders..... 4  
Bore/Stroke ..... 4.02" x 4.72"  
(102 x 120 mm)  
Displacement ..... 239 in<sup>3</sup> (3.9 L)  
Fuel injection..... Direct  
Fuel..... #2 Diesel  
Fuel filter..... In-line strainer  
Air intake ..... Cross-flow  
Cooling ..... Liquid  
Engine speeds (rpm)  
High idle – no load..... 2150±50  
Rated – full load ..... 2000  
Low idle ..... 950  
Horsepower per SAE J1349  
Gross..... 60 (44.7 kW) @ 2000 rpm  
Net ..... 56 (42 kW) @ 2000 rpm  
Peak torque  
@ 1200 rpm ..... 177 lb-ft (240 N·m)

## ENGINE COOLING

Radiator  
Core type ..... Square wave  
serpentine  
Core size area.... 165.9 in<sup>2</sup> (.107 m<sup>2</sup>)  
Rows of tubes ..... 3  
Cap pressure ..... 14.9 psi (103 kPa)  
Fan  
Diameter ..... 17.7" (450 mm)  
Ratio ..... 1.1:1  
Water pump  
Style ..... Integral  
Flow..... 41 gpm (153 L/min)  
Engine lubrication  
Pump..... Deep sump plate cooler  
with pressurized  
under-piston nozzles  
Pump operating angle ratings  
Side-to-side..... Rated 45°  
Fore and aft ..... Rated 45°  
Oil filtration ..... Replaceable,  
full-flow cartridge

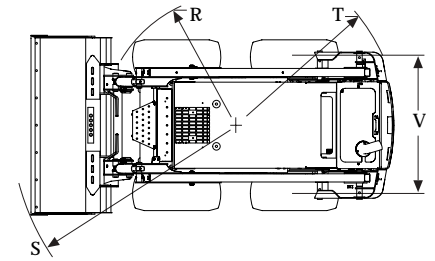
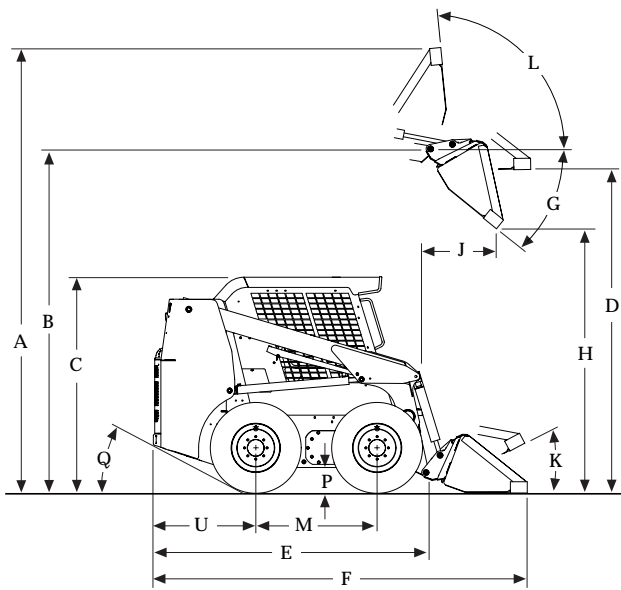
## POWERTRAIN

Drive pump .... Tandem, axial piston  
hydrostatic transmission  
w/integral charge pump driven  
directly off engine flywheel  
Pump to engine ratio..... 1:1  
Displacement ... 0 to 2.81 in<sup>3</sup> (46 cc)  
Pump flow @ rated rpm... 24.3 gpm  
(92 L/min)  
Flow..... Bi-directional  
Charge pressure ..... 400 psi  
(27.6 bar)  
System relief ..... 5004 psi  
(345 bar)  
Controls ..... Servo  
Drive motors .... Fixed displacement  
high torque, low-speed gerotor  
motor with shuttle valve  
Maximum displacement..... 24 in<sup>3</sup>  
(393 cc)  
Speed @ rated engine rpm  
@ max displacement..... 234 rpm  
Torque @ max displacement  
and relief pressure..... 1,370 lb-ft  
(1863 N·m)  
Travel speed..... 0 - 6.8 mph  
(11.0 km/h)  
Final drive..... Single-reduction  
chain drive  
Drive chain  
Size..... ASA #80HS  
Tensile strength ..... 21,000 lb  
(93 413 N)  
Axles..... One-piece, forged  
induction-hardened  
high carbon steel  
Torque @ rated rpm ..... 4,358 lb-ft  
(5908 N·m)  
Diameter ..... 2.0" (51 mm)  
Length ..... 14.61" (371 mm)  
Parking brakes ..... Pin lock  
Engagement..... Raise seat bar

## HYDRAULIC SYSTEM

Standard equipment  
pump ..... Gear pump  
Displacement .. 2.32 in<sup>3</sup>/rev (38 cc)  
Pump flow @ rated engine rpm  
Total ..... 19.1 gpm (72.2 L/min)  
Loader control valve..... 2-spool  
open-center series with  
power beyond port  
Relief pressure .. 3000 psi (207 bar)  
Port relief pressures  
#1A Lower..... 3800 psi (262 bar)  
#1B Raise ..... 3100 psi (214 bar)  
#2A Rollback.... 3800 psi (262 bar)  
#2B Dump ..... 3100 psi (214 bar)  
#3A & B Auxiliary..... None  
Hydraulic lines  
Tubing ..... 37° JIC Flare  
Loop hoses ..... SAE 100 R12  
Swing-out hydraulic oil cooler  
Core type ..... Two row in-line  
Hydraulic filters ..... 6-micron,  
spin-on replaceable element  
for the return line with  
warning indicator  
Filter capacity  
Return line filter ..... 0.2 oz (27 g)





## DIMENSIONS

- A.** Overall operating height  
 w/foundry/excavating bucket – short lip ..... 145.3” (3.69 m)  
 w/low profile bucket – standard lip ..... 150.9” (3.83 m)  
 w/low profile extended bucket – long lip ..... 155.9” (3.96 m)
- Height to\*
- B.** Bucket hinge pin ..... 114.6” (2.91 m)  
**C.** Top of rollover protective structure ..... 75.5” (1.92 m)  
**D.** Bottom of level bucket, loader arm fully raised ..... 107.3” (2.73 m)
- Overall length
- E.** w/o attachment w/coupler ..... 100” (2.54 m)  
**F.** w/foundry/excavating bucket on ground ..... 123.2” (3.13 m)  
**F.** w/low profile bucket on ground ..... 129” (3.28 m)  
**F.** w/low profile extended bucket on ground ..... 133.9” (3.40 m)
- G.** Dump angle at maximum height ..... 40°
- H.** Dump height – loader arm fully raised  
 w/foundry/excavating bucket ..... 89.4” (2.27 m)  
 w/low profile bucket ..... 85.9” (2.18 m)  
 w/low profile extended bucket ..... 82.7” (2.10 m)
- J.** Reach – loader arm fully raised  
 w/foundry/excavating bucket ..... 23.6” (0.60 m)  
 w/low profile bucket ..... 28.1” (0.71 m)  
 w/low profile extended bucket ..... 31.9” (0.81 m)
- Maximum attachment rollback
- K.** Bucket on ground ..... 32°  
**L.** Bucket at full height ..... 80°
- M.** Wheelbase ..... 41.2” (1.05 m)
- Ground clearance
- P.** Bottom of belly pan ..... 8” (203 mm)  
**Q.** Angle of departure ..... 27°
- Clearance circle front
- R.** Less bucket ..... 48.1” (1.22 m)  
**S.** w/60” (1.52 m) foundry/excavating bucket on ground .... 73.2” (1.86 m)  
**S.** w/60” (1.52 m) low profile bucket on ground ..... 78.4” (1.99 m)  
**S.** w/60” (1.52 m) low profile extended bucket on ground... 83.1” (2.11 m)  
**T.** Clearance circle rear ..... 57.6” (1.46 m)  
**U.** Rear axle to bumper ..... 35.4” (0.90 m)  
**V.** Tread width, centerline to centerline ..... 49” (1.25 m)

NOTE: \*Equipped with 10.00 x 16.5 Solideal Hauler SKS tires.

## PERFORMANCE SPECS

- Operating load ..... 1,500 lb (681 kg)  
 Tipping load ..... 3,000 lb (1361 kg)  
 Breakout force  
 Lift cylinder ..... 3,788 lbf  
 (16 850 N)  
 Bucket cylinder ..... 3,974 lbf  
 (17 677 N)
- Dig depth  
 w/bucket flat ..... 0” (0 mm)
- Cycle time  
 Raise ..... 3.6 seconds  
 Lower ..... 2.1 seconds  
 Dump ..... 1.9 seconds  
 Rollback ..... 1.8 seconds

NOTE: SAE rated lift capacities. Breakout force and cycle time measured with rated load in D/F bucket.

## OPTIONAL BUCKETS

Type	Width inch (m)	Weight lb (kg)	Heaped Capacity ft <sup>3</sup> (m <sup>3</sup> )
<b>Foundry/ Excavating</b>	60	270	11.5
	(1.5)	(122)	(0.33)
	66	370	15.2
	(1.6)	(168)	(0.43)
	72	390	16.7
<b>Low Profile</b>	60	330	11.5
	(1.5)	(150)	(0.33)
	66	400	13.2
	(1.6)	(181)	(0.37)
	72	425	14.5
<b>Low Profile Extended</b>	60	360	14.3
	(1.5)	(163)	(0.40)
	66	434	15.5
	(1.6)	(197)	(0.44)
	<b>Utility/Light Material</b>	60	(350)
(1.5)		(159)	(0.56)
72		434	23.7
(1.8)		(197)	(0.67)
84		497	27.9
<b>Manure/ Slurry</b>	(2.1)	(225)	(0.79)
	60	340	16.7
	(1.5)	(154)	(0.47)
	72	465	19.1
	(1.8)	(211)	(0.54)

## STANDARD EQUIPMENT

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### OPERATOR'S COMPARTMENT

ROPS/FOPS canopy w/side screens  
Tilt ROPS/FOPS  
Instrument panels  
Water-shedding vinyl seat  
2" (51 mm) retractable seat belt  
Hand throttle  
Ergonomic hand controls  
Seat bar w/integral armrests  
Loader control lockout system  
Floor cleanout panel

### LOADER

Radial loader arm design  
Mechanical attachment coupler

### ENGINE

Case 4-390 diesel  
Automatic fan belt tensioner  
Integral engine oil cooling  
Fuel filter w/water trap  
Dual element air cleaner  
65 amp alternator  
610 CCA 12-volt battery  
Heavy-duty radiator

### POWERTRAIN

Hydrostatic four wheel drive  
Servo controls  
ASA #80HS drive chain  
Parking brakes

### HYDRAULICS

Auxiliary hydraulics 3000 psi  
(207 bar) – 19.1 gpm (72.2 L/min)  
Hydraulic circuit pedal lock

Loader arm-mounted ISO flat face connectors

Loader function lockout system  
Loader lockout override  
2-spool loader control valve  
Heavy-duty swing-out oil cooler  
Loader arm float position

### OTHER

Integral bumper counterweight  
Lockable service access hood  
Single-point daily servicing  
Halogen lights, 2-front, 1-rear  
Rear tail lights

## OPTIONAL EQUIPMENT

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### OPERATOR'S COMPARTMENT

Vinyl suspension seat w/2" (51 mm) retractable seat belt  
Vinyl suspension seat w/3" (76 mm) retractable seat belt  
Auxiliary front electric controls  
Chassis options harness  
Lexan® front door  
Glass front door w/wiper & washer  
Sliding side windows  
Heater (deluxe)  
Rear window w/emergency escape feature  
Top window  
Foot throttle  
Accessory power outlet

### LOADER

Ride control  
Hydraulic attachment coupler  
Hydraulic two-way self-leveling

### HYDRAULICS

High-flow auxiliary hydraulics  
3000 psi (207 bar)  
31.4 gpm (119 L/min)

### ENGINE

Coolant block heater  
Thermostart

### OTHER

Backup alarm  
Rotating beacon  
Lift hooks  
Horn  
Special paint  
Language decals  
Factory-installed tires – see page 2  
Buckets – see page 3  
Bolt-on bucket cutting edges  
42" (1.07 m) and 48" (1.22 m) pallet forks  
Model D125 backhoe  
Auxiliary front electric  
Remote jump start  
Battery disconnect switch  
Automatic engine shutdown system  
Steel tracks

### FIELD-INSTALLED OPTIONS

Floor heater  
Auto-engine shutdown

NOTE: All specifications are stated in accordance with SAE Standards or Recommended Practices, where applicable.

Form No. CE 299-05-01  
Replaces Form No. - None

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