

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 in³ (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 in² (.107 m²)
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 in³ (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 in³
(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 in³/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)

INSTRUMENTATION

Digital hourmeter
 Fuel level LED bar graph
 Warning lights
 Fuel level
 Voltage
 Engine coolant temperature
 Engine oil pressure
 Air cleaner restriction
 Hydraulic filter restriction
 Hydraulic oil temperature
 Systems normal
 Seat belt reminder
 Warning alarms
 Engine coolant temperature
 Engine oil pressure
 Hydraulic oil temperature
 Seat belt reminder

ELECTRICAL SYSTEM

Alternator 65 amp
 Starter 2.5 kW
 Battery 12-volt low-maintenance
 610 cold-cranking amps
 @ 0° F (-18° C)

OPERATOR ENVIRONMENT

Tilt ROPS/FOPS canopy
 w/side screens
 Water-shedding vinyl seat
 Seat presence switch
 2" (51 mm) retractable seat belt
 Seat bar w/integral armrests
 Two servo-assist, adjustable,
 hands-only control levers
 Hand throttle
 Loader control lockout system
 Front and rear halogen floodlights
 Floor cleanout access

CYLINDERS

Lift cylinder
 Bore diameter 2.25" (57.2 mm)
 Rod diameter 1.50" (38.1 mm)
 Stroke 35.16" (893.1 mm)
 Closed length ... 46.18" (1173.0 mm)
 Bucket cylinder
 Bore diameter 2.50" (63.5 mm)
 Rod diameter 1.375" (34.9 mm)
 Stroke 14.5" (369 mm)
 Closed length 26.9" (683 mm)

OPERATING WEIGHTS

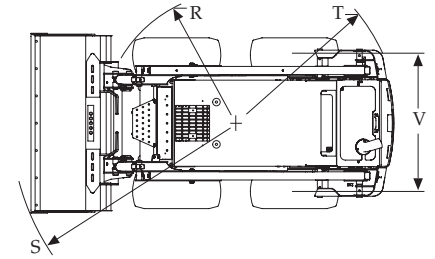
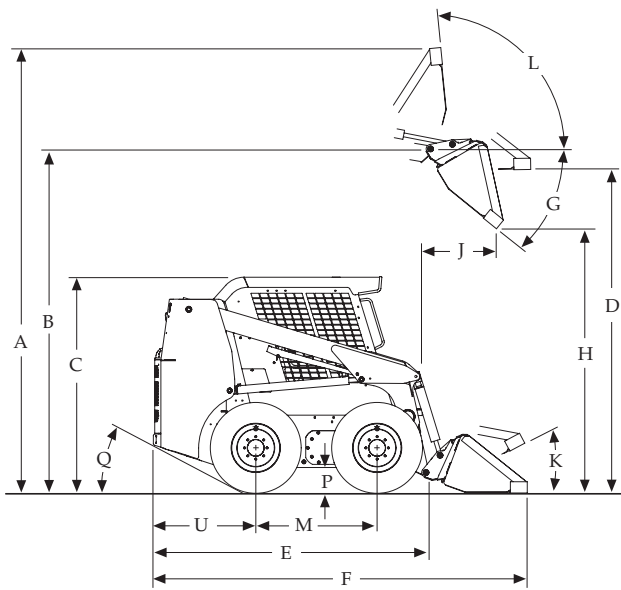
Unit equipped with 10.00 x 16.5
 Solideal Hauler SKS tires,
 60" (1.5 m) short lip bucket, mechan-
 ical attachment coupler,
 full fuel and 165 lb (75 kg)
 operator 5,716 lb (2593 kg)
 Shipping weight... 5,148 lb (1891 kg)
 Add-on weights
 Side cab glass +70 lb (32 kg)
 Lexan® door +50 lb (22.6 kg)
 Glass door w/wiper.. +77 lb (35 kg)
 Floor heater +20 lb (9.1 kg)
 Suspension seat +10 lb (4.5 kg)

SERVICE CAPACITIES

Fuel tank 22.0 gal (83.3 L)
 Engine oil w/filter 11 qt (10.4 L)
 Engine oil w/o filter 10 qt (9.5 L)
 Engine cooling system 17.5 qt
 (16.6 L)
 Hydraulic system
 Reservoir 7.1 gal (32.4 L)
 Total 13.3 gal (50.2 L)
 Chain tanks (per side) 6 qt (5.7 L)

TIRE SELECTION

	Size	Ply Rating	Tread Depth	Tire Width	Width Over Tires	Tire Weight*	Max Travel Speed
Solideal Hauler SKS.....	10.00 x 16.5.....	8.....	0.75" (19 mm)	11.2" (284 mm)	59" (1.50 m)	63 lb (28.6 kg)	6.8 mph (11.0 km/h)
Galaxy Beefy Baby II.....	10.00 x 16.5.....	8.....	0.75" (19 mm)	10.2" (259 mm)	59" (1.81 m)	59 lb (26.8 kg)	6.8 mph (11.0 km/h)
Galaxy Hippo.....	13.00 x 16.5.....	10.....	1.38" (35 mm)	12.8" (325 mm)	64" (1.63 m)	77 lb (34.9 kg)	6.8 mph (11.0 km/h)
Galaxy King Kong.....	10.00 x 16.5.....	10.....	1.25" (32 mm)	10.2" (259 mm)	59" (1.50 m)	91 lb (41.3 kg)	6.8 mph (11.0 km/h)



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 ³ (m ³)
Foundry/ Excavating ... 60	60	270	11.5
	(1.5)	(122)	(0.33)
	66	370	15.2
	(1.6)	(168)	(0.43)
	72	390	16.7
	(1.8)	(177)	(0.47)
Low Profile .. 60	60	330	11.5
	(1.5)	(150)	(0.33)
	66	400	13.2
	(1.6)	(181)	(0.37)
	72	425	14.5
	(1.8)	(193)	(0.41)
Low Profile Extended 60	60	360	14.3
	(1.5)	(163)	(0.40)
	66	434	15.5
	(1.6)	(197)	(0.44)
Utility/Light Material 60	60	(350)	19.7
	(1.5)	(159)	(0.56)
	72	434	23.7
	(1.8)	(197)	(0.67)
	84	497	27.9
	(2.1)	(225)	(0.79)
Manure/ Slurry 60	60	340	16.7
	(1.5)	(154)	(0.47)
	72	465	19.1
	(1.8)	(211)	(0.54)

STANDARD EQUIPMENT

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

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.

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