

# 75XT

## 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 ..... 2450±50  
Rated - full load..... 2200  
Low idle..... 950±100  
Horsepower per SAE J1349  
Gross..... 75 (55.9 kW) @ 2200 rpm  
Net ..... 69 (51.5 kW) @ 2200 rpm  
Peak torque  
@ 1200 rpm ..... 193 lb-ft (262 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 ..... 4  
Cap pressure ..... 14.9 psi (103 kPa)  
Fan  
Diameter ..... 20" (508 mm)  
Ratio ..... 1.1:1  
Water pump  
Style ..... Integral  
Flow..... 41 gpm (155 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 (28 bar)  
System relief ..... 5004 psi  
(345 bar)  
Controls ..... Servo  
Drive motors .... Fixed displacement  
high torque, low-speed gerotor  
motor with shuttle valve  
Maximum displacement..... 30 in<sup>3</sup>  
(492 cc)  
Speed @ rated engine rpm  
@ max displacement..... 187 rpm  
Torque @ max displacement  
and relief pressure..... 1,710 lb-ft  
(2318 N·m)  
Travel speed..... 0 - 7.2 mph  
(11.6 km/h)  
Final drive..... Single-reduction  
chain drive  
Drive chain  
Size..... ASA #100HS  
Tensile strength ..... 30,000 lb  
(133 452 N)  
Axles..... One-piece, forged  
induction-hardened  
high carbon steel  
Torque @ rated rpm ..... 4,355 lb-ft  
(5904 N·m)  
Diameter ..... 2.0" (51 mm)  
Length ..... 14.61" (371 mm)  
Parking brakes ..... Spring-applied,  
hydraulic release disc  
Engagement ..... Depress on/off  
brake button at left-hand control  
lever, raise seat bar, get off seat,  
stop engine

### HYDRAULIC SYSTEM

Standard equipment  
pump ..... Gear pump  
Displacement .. 2.32 in<sup>3</sup>/rev (38 cc)  
Pump flow @ rated engine rpm  
Total ..... 21 gpm (79.5 L/min)  
Loader control valve..... 3-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 ..... 3800 psi (262 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 .... 11.6 oz (0.3 L)

## 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  
   Parking brake  
   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

No-tool tilt ROPS/FOPS canopy  
   w/side screens  
 Water-shedding vinyl seat  
 Seat presence switch  
 2" (51 mm) retractable seat belt  
 Restraint bar w/integral armrests  
 Two servo-assist, adjustable,  
   hands-only control levers  
 Hand and foot throttles  
 Loader control lockout system  
 In-cab loader arm lock  
 Rear window w/emergency escape  
   feature  
 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 ..... 41.3" (1.05 m)  
   Closed length..... 53.5" (1.36 m)  
 Bucket cylinder  
   Bore diameter..... 2.50" (63.5 mm)  
   Rod diameter ..... 1.25" (31.8 mm)  
   Stroke ..... 20.67" (525 mm)  
   Closed length ..... 32.4" (823 mm)

## OPERATING WEIGHTS

Unit equipped with 12.00 x 16.5  
 Galaxy Beefy Baby tires, 73"  
 (1.85 m) short lip bucket,  
 mechanical attachment coupler,  
 full fuel ..... 6,700 lb (3039 kg)

Add-on weights  
 Side cab glass ..... +70 lb (32 kg)  
 Lexan® door ..... +70 lb (32 kg)  
 Glass door w/wiper.... +77 lb (35 kg)  
 Basic heater..... +60 lb (27 kg)  
 Suspension seat..... +10 lb (4.5 kg)  
 Counterweight bumper ILO  
   std. bumper ..... +110 lb (50 kg)

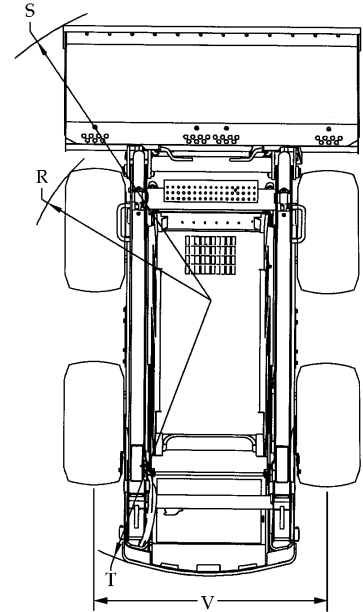
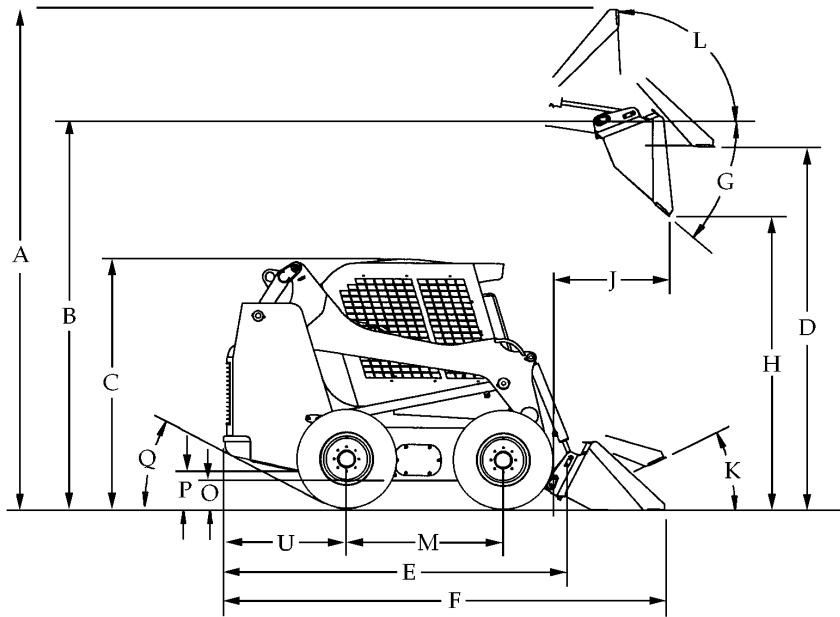
## SERVICE CAPACITIES

Fuel tank..... 17.3 gal (65.5 L)  
 Engine oil w/filter ..... 11 qt (10.4 L)  
 Engine oil w/o filter..... 10 qt (9.5 L)  
 Engine cooling system .... 17 qt (16.1 L)  
 Hydraulic system  
   Reservoir..... 5.7 gal (21.7 L)  
   Total ..... 16.5 gal (62.5 L)  
 Chain tanks (per side).... 5 qt (4.7 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)	71.1" (1.81 m)	63 lb (28.6 kg)	6.7 mph (10.8 km/h)
Solideal Hauler SKS.....	12.00 x 16.5.....	10.....	0.75" (19 mm)	13.1" (333 mm)	72" (1.83 m)	51 lb (23.1 kg)	7.2 mph (11.6 km/h)
Galaxy Beefy Baby II.....	10.00 x 16.5.....	8.....	0.75" (19 mm)	10.2" (259 mm)	71.1" (1.81 m)	62 lb (28.1 kg)	6.7 mph (10.8 km/h)
Galaxy Beefy Baby II.....	12.00 x 16.5.....	10.....	0.75" (19 mm)	12.3" (312 mm)	72" (1.83 m)	85 lb (38.6 kg)	7.2 mph (11.6 km/h)
Galaxy Hippo.....	13.00 x 16.5.....	10.....	0.75" (19 mm)	12.8" (325 mm)	72.5" (1.84 m)	71 lb (32.2 kg)	6.7 mph (10.8 km/h)
Galaxy King Kong.....	10.00 x 16.5.....	8.....	1.25" (32 mm)	10.2" (259 mm)	71.1" (1.81 m)	91 lb (41.3 kg)	6.7 mph (10.8 km/h)
Galaxy Hulk.....	12.00 x 16.5.....	12.....	0.81" (21 mm)	12.3" (312 mm)	72" (1.83 m)	85 lb (38.6 kg)	7.2 mph (11.6 km/h)
Galaxy Bulky Hulk.....	15.50 x 16.5.....	14.....	0.81" (21 mm)	16.7" (424 mm)	80" (2.03 m)	119 lb (54.0 kg)	7.2 mph (11.6 km/h)
Case Steel Tracks.....	10.00 x 16.5.....	NA.....	1.4" (36 mm) <sup>∞</sup>	13.25" (337 mm) <sup>°</sup>	78" (1.98 m)	792 lb (359.2 kg)	7.1 mph (11.4 km/h)
Case Steel Tracks.....	12.00 x 16.5.....	NA.....	1.4" (36 mm) <sup>∞</sup>	14.7" (373 mm) <sup>°</sup>	81.5" (2.07 m)	959 lb (435.0 kg)	7.1 mph (11.4 km/h)

NOTE: \*Tire weight does not include wheel weight. <sup>∞</sup>Equals grouser depth. <sup>°</sup>Equals track width.



## DIMENSIONS

- A.** Overall operating height
  - Short lip dirt bucket ..... 152.8" (3.88 m)
  - Dirt bucket..... 156.8" (3.98 m)
- Height to\*
- B.** Bucket hinge pin ..... 119.7" (3.04 m)
- C.** Top of rollover protective structure..... 79.9" (2.03 m)
- D.** Bottom of level bucket, loader arm fully raised ..... 111.5" (2.83 m)
- Overall length
- E.** w/o attachment w/coupler ..... 103.1" (2.62 m)
- F.** w/short lip dirt bucket on ground ..... 131.5" (3.34 m)
- F.** w/dirt bucket on ground ..... 135.5" (3.44 m)
- G.** Dump angle at maximum height ..... 45°
- H.** Dump height – loader arm fully raised
  - Short lip dirt bucket ..... 90.6" (2.30 m)
  - Dirt bucket..... 87.8" (2.23 m)
- J.** Reach – loader arm fully raised
  - Short lip dirt bucket ..... 29.9" (0.76 m)
  - Dirt bucket..... 32.7" (0.83 m)
- Maximum attachment rollback
- K.** Bucket on ground..... 27°
- L.** Bucket at full height..... 89°
- M.** Wheelbase ..... 44.9" (1.14 m)
- Ground clearance
- O.** Bottom of chain case..... 8.9" (226 mm)
- P.** Bottom of belly pan ..... 10.8" (274 mm)
- Q.** Angle of departure ..... 25°
- Clearance circle front
- R.** less bucket ..... 53.9" (1.37 m)
- S.** w/73" (1.85 m) short lip dirt bucket on ground ..... 80.2" (2.00 m)
- S.** w/73" (1.85 m) dirt bucket on ground ..... 83.8" (2.13 m)
- T.** Clearance circle rear ..... 61.1" (1.55 m)
- U.** Rear axle to bumper ..... 38.3" (0.97 m)
- V.** Tread width, centerline to centerline ..... 60.9" (1.55 m)

NOTE: \*Equipped with 12.00 x 16.5 Galaxy Beefy Baby tires.

## PERFORMANCE SPECS

- Operating load ..... 2,200 lb (998 kg)
- w/optional ctwt. (bumper)... 2,300 lb (1043 kg)
- Tipping load..... 4,400 lb (1996 kg)
- w/optional ctwt. (bumper)... 4,600 lb (2086 kg)
- Breakout force
  - Lift cylinder ..... 5,173 lbf (23 011 N)
  - Bucket cylinder ..... 5,371 lbf (23 892 N)
- Dig depth
  - w/bucket flat ..... 0.24" (6 mm)
- Cycle time
  - Raise ..... 4.4 seconds
  - Lower ..... 2.8 seconds
  - Dump ..... 2.8 seconds
  - Rollback ..... 2.2 seconds

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

## OPTIONAL BUCKETS

Type	Width inch (m)	Heaped	
		Weight lb (kg)	Capacity ft <sup>3</sup> (m <sup>3</sup> )
Dirt.....	73 (1.85)	553 (251)	16.8 (.48)
Dirt.....	82 (2.08)	593 (269)	19 (.54)
Short Lip .....	73 (1.85)	409 (186)	13.9 (.39)
Utility.....	73 (1.85)	628 (285)	22.4 (.63)
Light .....	82	583	32.5
Material	(2.08)	(264)	(.92)

## STANDARD EQUIPMENT

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### OPERATOR'S COMPARTMENT

ROPS/FOPS canopy w/side screens  
No-tools tilt ROPS/FOPS  
Instrument panels  
Water-shedding vinyl seat  
2" (51 mm) retractable seat belt  
Hand & foot throttles  
Ergonomic hand controls  
Restraint bar w/integral armrests  
Loader control lockout system  
Fingertip brake control  
Rear window w/emergency escape feature  
Floor cleanout panel

### LOADER

Heavy lift-and-reach linkage  
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 #100HS drive chain  
SAHR disc parking brakes

### HYDRAULICS

Auxiliary hydraulics 3000 psi  
(207 bar) - 21 gpm (79.5 L/min)  
Hydraulic circuit pedal lock  
Loader arm mounted ISO flat face  
hydraulic quick connectors  
Loader function lockout system  
Loader lockout override  
3-spool loader control valve  
Heavy-duty swing-out oil cooler  
Loader arm float position

### OTHER

Integral bumper counterweight  
Heavy-duty louvered rear grille  
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 (floor)  
Heater (deluxe)  
Accessory power outlet

### LOADER

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

### HYDRAULICS

High-flow auxiliary hydraulics  
3000 psi (207 bar)  
32 gpm (121.1 L/min)

### ENGINE

Coolant block heater  
Thermostart

### OTHER

Backup alarm  
Rotating beacon  
Lift hooks  
Drawbar  
Integral bumper  
counterweight (260 lb [118 kg])  
Horn  
Special paint  
Language decals  
Manual brake release  
Factory-installed tires - see page 2  
Buckets - see page 3  
Bolt-on spill guards  
Bolt-on cutting edges  
42" (1.07 m) & 48" (1.22 m)  
pallet forks  
Model D125 backhoe  
Remote jumpstart terminals  
Battery disconnect switch  
Automatic engine shutdown  
system  
Steel tracks

### FIELD-INSTALLED OPTIONS

Foot-operated loader controls  
Lift cylinder plumbing covers

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

Form No. CE 319-08-01  
Replaces Form No. CE 188-10-00

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Printed in U.S.A.

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### CASE CONSTRUCTION EQUIPMENT CONTACT INFORMATION

NORTH AMERICA/MEXICO  
700 STATE STREET  
RACINE, WI 53404 U.S.A.