

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 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 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 in² (.107 m²)
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 in³ (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 in³
(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 in³/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)

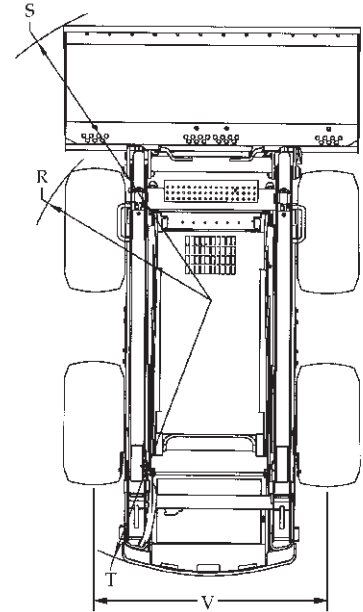
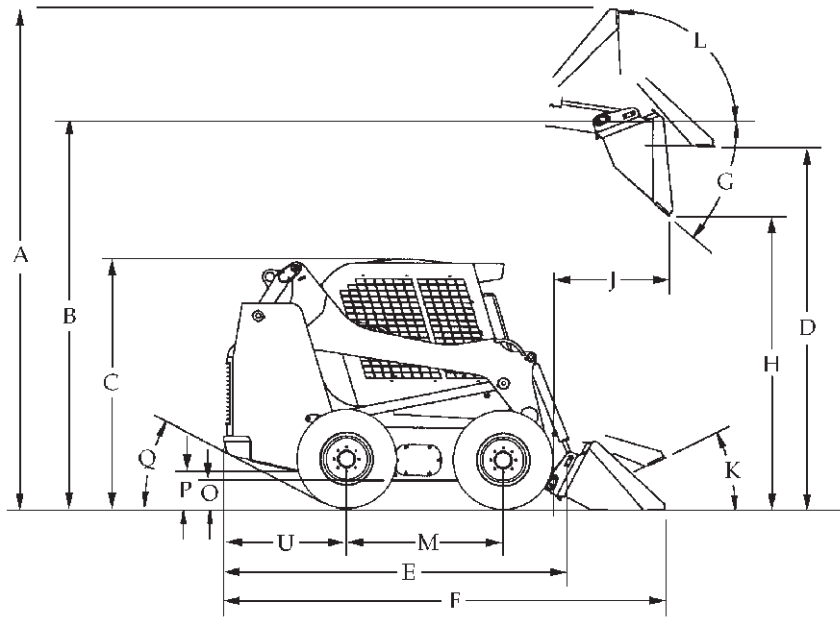
SERVICE CAPACITIES

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) [∞]	13.25" (337 mm) [°]	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) [∞]	14.7" (373 mm) [°]	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. [∞]Equals grouser depth. [°]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 cwt. (bumper)...	2,300 lb (1043 kg)
Tipping load.....	4,400 lb (1996 kg)
w/optional cwt. (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)	Weight lb (kg)	Heaped
			Capacity ft ³ (m ³)
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

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

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
Thermostat

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.

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