

ENGINE

Model		
Case 445T/M3 diesel, Tier III certified		
Туре	4-stroke, turbocharged	
Cylinders	4	
Bore/Stroke	4.1 in x 5.2 in (104 mm x 132 mm)	
Displacement	274 in³ (4.5 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	2415±60	
Rated - full load	2300	
Low idle	1075±75	
Horsepower per SAE	J1349	
Gross	90 (67 kW) @ 2300 rpm	
Net	83 (62 kW) @ 2300 rpm	
Peak torque		
@ 1300 rpm	288 lb·ft (390 N·m)	

ENGINE COOLING

Radiator				
Core type	Square wave serpentine			
Core size area	377 in ² (.243 m ²)			
Rows of tubes	4			
Cap pressure	14 psi (97 kPa)			
Fan				
Diameter	20.4 in (518 mm)			
Ratio	1.1:1			
Water pump				
Style	Centrifugal			
Flow	29 gpm (110 L/min)			
Engine lubrication				
Pump	Deep sump with plate cooler and pressurized under-piston nozzles			
Pump operating angle ratings				
Side-to-side	Rated 35°			
Fore and aft	Rated 35°			
Oil filtration	Replaceable, full-flow cartridge			

POWERTRAIN

Drive pump			
Tandem, axial piston h with integral charge pu engine flywheel	ydrostatic transmission imp driven directly off		
Pump to engine ratio	1:1		
Displacement	0 to 2.81 in ³ (46 cc)		
Pump flow @ high idle			
engine rpm	29.4 gpm		
	(111 L/min)		
Flow	Bi-directional		
Charge pressure	360 psi (24 bar)		
System relief	5,220 psi (360 bar)		
Controls	Servo		
Drive motors	Fixed displacement		
	radial piston		
Maximum displacemer	nt 40.3 in ³		
	(660 cc)		
Speed @ rated engine	rpm		
@ max displacement	168 rpm		
High speed 309 rpm			
Torque @ max displace	ement		
and relief pressure	2,789 lb·ft		
	(3,781 N·m)		
Travel speed - mph (km/	/h)		
Low range	6.2 (10.0)		
High range	11.3 (18.1)		
Final drive	Single-reduction chain drive		
Drive chain	Chain dilve		
Size	ASA #120HS		
Tensile strength	41,000 lb (182,384 N)		
Axles			
One-piece, forged inducarbon steel	uction-hardened high		

Max torque @ max displacement and relief pressure 6,012 lb·ft (8152 N·m) Diameter 2.5 in (63.5 mm) Length 14.92 in (379 mm)

Parking brakes

Spring-applied, hydraulic release

Engagement

Depress on/off brake button on handle or instrument panel, raise seat bar, get off seat, or stop engine

HYDRAULIC SYSTEM

Standard equipment pump				
Type Gear pump				
Displacement	2.2 in ³ /rev (36 cc)			
Pump flow @ rated e	ngine rpm			
Total	21.9 gpm (83 L/min)			
Optional high flow @ rated engine rpm				
Total	41.8 gpm (158 L/min)			
Loader control valve				
3-spool open-center beyond port	series with power			
Relief pressure	3050 psi (210 bar)			
Port relief pressures				
#1B Raise	3800 psi (260 bar)			
#2A Rollback	3800 psi (260 bar)			
#2B Dump	3350 psi (230 bar)			
Hydraulic lines				
Tubing	37° JIC Flare			
Loop hoses	SAE 100 R12			
Hydraulic oil cooler				
Core type	Four row in-line			
Hydraulic filter				

6-micron spin-on replaceable element on the return line with warning indicator

INSTRUMENTATION

Indicators

Digital Hourmeter

Fuel level LCD bar graph with alarm

Warning lights with alarms

Engine coolant temperature

Engine oil pressure

Engine Malfunction

Hydraulic charge pressure

Hydraulic filter restriction

Hydraulic oil temperature

Warning alarms

Battery voltage (plus display)

Indicator light

Engine preheat

Parking brake

Seat bar reminder

ELECTRICAL SYSTEM

Alternator	95 amp
Starter	2.7 kW
Batterv	

12-volt low-maintenance 1125 cold-cranking amps @ 0° F (-18 C)

OPERATOR ENVIRONMENT

ROPS/FOPS level 1 canopy w/side screens
Tilt ROPS/FOPS
Rear window w/emergency escape feature
Instrument panels
Suspension vinyl seat
2 in (51 mm) retractable seat belt
Hand & foot throttles
Alarm package
Headliner
Top window
Cup holder
Power plug socket
Foot rest
Storage tray
Low effort ergonomic hand controls
Padded seat bar w/integral arm rests
Loader control lockout system
Electric parking brake control
Floor cleanout panel

CYLINDERS

Lift cylinder	
Bore diameter	2.25 in (57.2 mm)
Rod diameter	1.75 in (44.4 mm)
Stroke	38.2 in (970 mm)
Closed length	52.0 in (1320 mm)
Bucket cylinder	
Bore diameter	2.5 in (63.5 mm)
Rod diameter	1.5 in (38.1 mm)
Stroke	23.2 in (590 mm)
Closed length	47.4 in (1204 mm)

OPERATING WEIGHTS

Unit equipped with 12 x 16.5 Galaxy Beefy Baby II tires, 73 in (1.85 m) long lip dirt bucket, mechanical attachment coupler, 165 lb (75 kg) operator and full fuel tank

R	630	lh	(39-	15	ka)

Shipping weight	7,780 lb (3529 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)
Heater	+60 lb (27 kg)
Suspension seat	+10 lb (4.5 kg)
High flow auxiliary	
hydraulics	269 lb (122 kg)
Hydraulic attachment	
coupler	+38 lb (17 kg)
Counterweight	+850 lb (385 kg)

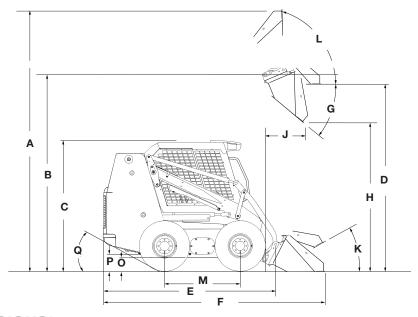
SERVICE CAPACITIES

Fuel tank	20.7 gal (78.3 L)		
Engine oil w/filter	12.7 qt gal (12 L)		
Engine cooling system	12 qt (11.4 L)		
Hydraulic system			
Reservoir	6.5 gal (24.5 L)		
Total	17 gal (64.3 L)		
Chain tanks (per side)	8 qt (7.6 L)		

TIRE SELECTION

					Width	
		Ply	Tread	Tire	Over	Tire
	Size	Rating	Depth	Width	Tires	Weight*
Galaxy XD 2002	12.00 x 16.5	10	0.69 in	12.4 in	72 in	72 lb
			(17 mm)	(315 mm)	(1.83 m)	(32.7 kg)
Galaxy Beefy Baby II	12.00 x 16.5	10	0.81 in	12.4 in	72 in	82 lb
			(21 mm)	(315 mm)	(1.83 m)	(37.2 kg)
Galaxy Hippo	33/15.50 x 16.5	12	0.81 in	15.2 in	72 in	94 lb
			(21 mm)	(386 mm)	(1.83 m)	(42.6 kg)
Galaxy King Kong	12.00 x 16.5	12	1.25 in	11.6 in	72 in	97 lb
			(32 mm)	(295 mm)	(1.83 m)	(44 kg)
Galaxy Bulky Hulk	33/15.50 x 16.5	14	1.37 in	15.1 in	80 in	117 lb
			(35 mm)	(384 mm)	(2.03 m)	(53.1 kg)
Galaxy Hulk	12.00 x 16.5	12	1.37 in	12.0 in	72 in	96 lb
•			(35 mm)	(305 mm)	(1.83 m)	(43.5 kg)
Galaxy Solid Flex	12.00 x 16.5	n/a	0.8 in	11 in	71 in	280 lb
•			(20 mm)	(279 mm)	(1.80 m)	(127 kg)
Galaxy Solid Flex (offset wheel)	12.00 x 16.5	n/a	0.8 in	11 in	77 in	280 lb
,			(20 mm)	(279 mm)	(1.95 m)	(127 kg)

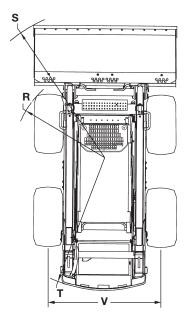
NOTE: *Tire weight does not include wheel weight. †Equals grouser depth. \emptyset Equals track width.



DIMENSIONS*

	Overall operating height	
A.		4-4-4 (2-2-)
	Dirt bucket	151.9 in (3.86 m)
	Light material bucket	158.9 in (4.04 m)
	Height to	
3.	Bucket hinge pin	124.5 in (3.16 m)
2.	Top of rollover protective structure	83.2 in (2.11 m)
). —	Bottom of level bucket, loader arm fully raised	116.4 in (2.96 m)
	Overall length	
Ε.	w/o attachment w/coupler	109.9 in (2.79 m)
Ξ.	w/dirt bucket on ground	140.7 in (3.57 m)
<u>. </u>	w/light material bucket on ground	148.5 in (3.79 m)
à.	Dump angle at maximum height	
	Dirt bucket	40°
	Light material bucket	31°
1.	Dump height – loader arm fully raised	
	Dirt bucket	94.4 in (2.40 m)
	Light material bucket	93.0 in (2.36 m)
J.	Dump reach – loader arm fully raised	
	Dirt bucket	26.4 in (671 mm)
	Light material bucket	35.3 in (896 mm)
	Maximum attachment rollback	
K.	Bucket on ground	30°
L.	Bucket at full height	55°
M.	Wheelbase	46.9 in (1.19 m)
	Ground clearance	
Э.	Bottom of chain case	9.2 in (234 mm)
Ρ.	Bottom of belly pan	11.2 in (284 mm)
٠.	Bottom of optional counterweight	9.2 in (234 mm)
Q.	Angle of departure	26°
	Clearance circle front	
₹.	less bucket	53.3 in (1.35 m)
3.	w/73 in (1.85 m) dirt bucket in carry position	84.8 in (2.15 m)
3.	w/84 in (2.1 m) dirt bucket on ground	86.3 in (2.19 m)
S.	w/82 in (2.08 m) light material bucket on ground	93.3 in (2.37 m)
Г.	Clearance circle rear	65.4 in (1.66 m)
/.	Tread width, centerline to centerline	58.5 in (1.49 m)
TON	F: *Equipped with 12 x 16.5 tires	

NOTE: *Equipped with 12 x 16.5 tires.



PERFORMANCE SPECS

2,450 lb (1111 kg)	
2,650 lb (1202 kg)	
4,900 lb (2223 kg)	
5,300 lb (2404 kg)	
5,689 lbf (25 306 N)	
7,213 lbf (32 085 N)	
0.1 in (3 mm)	
3.5 seconds	
2.2 seconds	
2.2 seconds	
1.6 seconds	

NOTE: SAE rated lift capacities.

OPTIONAL BUCKETS

Туре	Width inch (m)	Weight Ib (kg)	Heaped Capacity ft³ (m³)
Dirt	73 (1.9)	553 (251)	16.8 (.48)
	84 (2.1)	620 (281)	19.4 (.55)
HD Dirt	73 (1.9)	621 (282)	16.8 (.48)
	84 (2.1)	676 (307)	19.4 (.55)
Utility	73 (1.9)	628 (285)	22.4 (.63)
	84 (2.1)	674 (306)	25.7 (.73)
HD Utility	73 (1.9)	696 (316)	22.4 (.63)
	84 (2.1)	755 (343)	25.7 (.73)
Light Material	82 (2.1)	584 (265)	32.5 (.92)

STANDARD EQUIPMENT

OPERATOR'S COMPARTMENT

ROPS/FOPS level 1 canopy w/side screens Tilt ROPS/FOPS

Rear window w/emergency escape feature

Instrument panels

Suspension vinyl seat

2 in (51 mm) retractable seat belt

Hand & foot throttles

Alarm package

Headliner

Top window

Cup holder

Power plug socket

Foot rest

Storage tray

Low effort ergonomic hand controls

Padded seat bar w/integral arm rests

Loader control lockout system

Electric parking brake control

Floor cleanout panel

LOADER

Radial lift linkage

Mechanical two-way self-leveling linkage

Power Cycle bucket linkage

Mechanical attachment coupler

ENGINE

Case 445T/M3 diesel

Tier III Certified

Integral engine oil cooling

Fuel filter w/water trap

Automatic belt tensioner

Grid heater

Dual element air cleaner

95 amp alternator

1125 CCA 12-volt battery

Battery disconnect and jump start terminals

Side-by-side radiator and oil cooler

POWERTRAIN

Hydrostatic four wheel drive

Servo controls

ASA #120HS drive chain

SAHR disc parking brakes

HYDRAULICS

Auxiliary hydraulics 3050 psi

(210 bar) - 21.9 gpm (83 L/min),

Auxiliary interlock system

Loader arm mounted ISO flat face hydraulic

quick connectors

Loader function lockout system

Auxiliary function lockout overide

Loader lift lockout override

3-spool loader control valve

Heavy-duty oil cooler

Loader arm float position

OTHER

Integral bumper counterweight

Lockable service access hood

Single-point daily servicing

Halogen lights, 2-front, 2-side, 1-rear flood

(halogen)

Rear tail lights

Options harness

Remote oil drain

OPTIONAL EQUIPMENT

OPERATOR'S COMPARTMENT

Deluxe cloth suspension seat w/heater and lumbar support

3 in (76 mm) retractable seat belt

Electric auxiliary hydraulic control

Glass front door w/wiper & washer

Sliding side windows

Air conditioning

Heater (deluxe)

Demolition door

Radio

LOADER

Auxiliary front electric control

Ride Control

Hydraulic attachment coupler

HYDRAULICS

Auxiliary high-flow 3050 psi

(210 bar) - 41.8 gpm (158 L/min)

Attachment case drain plumbing

Electronically controlled auxiliary hydraulics

Second auxiliary hydraulics

ENGINE

Coolant block heater

OTHER

2-speed ground drive

Rotating beacon

850 lb (385 kg) counterweight

Lift hooks

Drawbar

Heavy-duty rear door

Special paint

Language decals

Factory-installed tires - see page 2

Buckets - see page 3

Bolt-on spill guards

Bolt-on cutting edges

42 in (1.07 m)/48 in (1.22 m) pallet forks

Steel tracks

Deluxe instrument panel

Road lights

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

NOTE: All engines meet current EPA emissions requirements.

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