

# 465 SERIES 3 SKID STEER TIER III CERTIFIED

# **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 <u>+</u> 60			
Rated - full load	2300			
Low idle	1075 <u>+</u> 75			
Horsepower per SAE J1349				
Gross Net	90 (67 kW) @ 2300 rpm 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 <sup>2</sup> (0.243 m <sup>2</sup> )				
Rows of tubes	4				
Cap pressure	14 psi (97.4 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 <sup>3</sup> (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	40.3 in <sup>3</sup> (660 cc)			
Speed @ rated engine	rpm			
@ max displacement	168 rpm			
high speed	309 rpm			
Torque @ max displacement				
and relief pressure	2,789 lb·ft			
	(3,781 N·m)			
Travel speeds - mph (km	n/h)			
Low range	6.2 (10.0)			
High range	11.3 (18.1)			
Final drive	Single-reduction chain drive			
Drive chain				
Size	ASA #120HS			
Tensile strength	41,000 lb			
Terisile strength	(182,384 N)			
Axles				
One-piece, forged induction-hardened high carbon steel				
Max torque @ max displacement				
and relief pressure	6,012 lb·ft (8152 N·m)			
Diameter	2.5 in (63.5 mm)			

# **HYDRAULIC SYSTEM**

Standard equipment pump				
Type Gear pump				
Displacement	2.2 in <sup>3</sup> /rev (36 cc)			
Pump flow @ rated engine 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	series with power			
beyond port				
Relief pressure	3050 psi (210 bar)			
Port relief pressures -				
Loader Raise	3120 psi (215 bar)			
Bucket Dump	3800 psi (260 bar)			
Bucket Curl	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

14.92 in (379 mm)

Length

Parking brakes

Engagement

or stop engine

Spring-applied, hydraulic release

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

#### **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
Battery	

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/escape provision
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 armrests
Loader control lockout system
Electric parking brake control
Floor cleanout panel

### **CYLINDERS**

Lift cylinder					
Bore diameter	2.5 in (63.5 mm)				
Rod diameter	1.75 in (44.4 mm)				
Stroke	49 in (1245 mm)				
Closed length	60.7 in (1543 mm)				
Bucket cylinder					
Bore diameter	2.75 in (69.8 mm)				
Rod diameter	1.375 in (34.9 mm)				
Stroke	20.67 in (525 mm)				
Closed length	31.5 in (800 mm)				

### **OPERATING WEIGHTS**

Unit equipped with 12 x 16.5 Galaxy Beefy Baby Il tires, 73 in (1.85 m) long lip bucket, mechanical attachment coupler, 165 lb (75 kg) operator and 8,875 lb (4026 kg) full fuel tank 8,060 lb (3546 kg) Shipping weight Add-on weights Side cab glass +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)

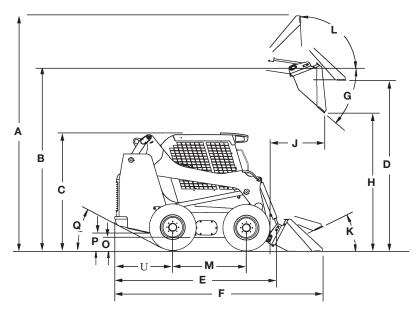
### **SERVICE CAPACITIES**

Fuel tank	20.2 gal (76.4 L)
Engine oil w/filter	12.7 qt (12 L)
Engine cooling system	12 qt (11.5 L)
Hydraulic system	
Reservoir	7.0 gal (26.5 L)
Total	17 gal (64.4 L)
Chain tanks (per side)	8 qt (7.6 L)

# **TIRE SELECTION**

				Width	
	Ply	Tread	Tire	Over	Tire
Size	Rating	Depth	Width	Tires	Weight*
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)
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)
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)
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)
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)
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)
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)
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)
	12.00 x 16.5 33/15.50 x 16.5 12.00 x 16.5 33/15.50 x 16.5 12.00 x 16.5 12.00 x 16.5	Size Rating   12.00 x 16.5 10   12.00 x 16.5 10   33/15.50 x 16.5 12   12.00 x 16.5 12   33/15.50 x 16.5 14   12.00 x 16.5 12   12.00 x 16.5 12   12.00 x 16.5 12	Size Rating Depth   12.00 x 16.5 10 0.69 in (17 mm)   12.00 x 16.5 10 0.81 in (21 mm)   33/15.50 x 16.5 12 0.81 in (21 mm)   12.00 x 16.5 12 1.25 in (32 mm)   33/15.50 x 16.5 14 1.37 in (35 mm)   12.00 x 16.5 12 1.37 in (35 mm)   12.00 x 16.5 n/a 0.8 in (20 mm)   12.00 x 16.5 n/a 0.8 in (20 mm)	Size Rating Depth Width   12.00 x 16.5 10 0.69 in (17 mm) 12.4 in (315 mm)   12.00 x 16.5 10 0.81 in (21 mm) 12.4 in (315 mm)   33/15.50 x 16.5 12 0.81 in (21 mm) 15.2 in (386 mm)   12.00 x 16.5 12 1.25 in (21 mm) (386 mm)   33/15.50 x 16.5 14 1.37 in (35 mm) 15.1 in (35 mm)   33/15.50 x 16.5 14 1.37 in (35 mm) 12.0 in (305 mm)   12.00 x 16.5 12 1.37 in (35 mm) 12.0 in (305 mm)   12.00 x 16.5 n/a 0.8 in (279 mm)   12.00 x 16.5 n/a 0.8 in (279 mm)	Size Ply Rating Tread Depth Depth Tire Width Over Tires   12.00 x 16.5 10 0.69 in (17 mm) 12.4 in (183 m) 72 in (183 m)   12.00 x 16.5 10 0.81 in (21 mm) 12.4 in (315 mm) 72 in (183 m)   33/15.50 x 16.5 12 0.81 in (21 mm) 15.2 in (386 mm) 72 in (183 m)   12.00 x 16.5 12 1.25 in (32 mm) 11.6 in (295 mm) 72 in (183 m)   33/15.50 x 16.5 14 1.37 in (35 mm) 15.1 in (364 mm) 80 in (384 mm) (2.03 m)   12.00 x 16.5 12 1.37 in (35 mm) 12.0 in (35 mm) 72 in (35 mm) (305 mm) (1.83 m)   12.00 x 16.5 12 0.8 in (11 in (71 in (20 mm)) 71 in (180 m) 72 in (180 m) 72 in (35 mm) <td< td=""></td<>

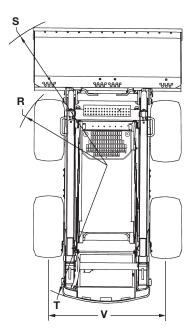
NOTE: \*Tire weight does not include wheel weight. †Equals grouser depth. ØEquals track width.



# **DIMENSIONS\***

וע	MIENDIOND*	
Α.	Overall operating height	
	Dirt bucket	163.0 in (4.14 m)
	Light material bucket	170.4 in (4.33 m)
	Height to	
В.	Bucket hinge pin	125.5 in (3.19 m)
C.	Top of rollover protective structure	83.2 in (2.11 m)
D.	Bottom of level bucket, loader arm fully raised	117.4 in (2.98 m)
	Overall length	
Ξ.	w/o attachment w/coupler	112.2 in (2.85 m)
₹.	w/dirt bucket on ground	143.0 in (3.63 m)
F.	w/light material bucket on ground	150.7 in (3.83 m)
Э.	Dump angle at maximum height	
	Dirt bucket	42°
	Light material bucket	35°
1.	Dump height - loader arm fully raised	
	Dirt bucket	94.8 in (2.41 m)
	Light material bucket	93.1 in (2.36 m)
l.	Reach – loader arm fully raised	
	Dirt bucket	40.3 in (1.02 m)
	Light material bucket	45.2 in (1.15 m)
	Maximum attachment rollback	
K.	Bucket on ground	27°
L.	Bucket at full height	93°
VI.	Wheelbase	51.4 in (1.31 m)
	Ground clearance	
Э.	Bottom of chain case	9.2 in (234 mm)
۹.	Bottom of belly pan	11.1 in (282 mm)
<u>.                                    </u>	Bottom of optional counterweight	9.2 in (234 mm)
ე.	Angle of departure	26°
	Clearance circle front	
₹.	less bucket	56.3 in (1.43 m)
3.	w/73 in (1.85 m) dirt bucket in carry position	86.2 in (2.19 m)
3.	w/84 in (2.08 m) dirt bucket on ground	88.4 in (2.24 m)
S	w/82 in (2.08 m) light material bucket on ground	93.7 in (2.38 m)
г.	Clearance circle rear	65.6 in (1.66 m)
<b>/</b> .	Tread width, centerline to centerline	58.5 in (1.49 m)
	To *Facilian ad with 10 v 16 F Calava Paafu Bahu II tiraa	

NOTE: \*Equipped with 12 x 16.5 Galaxy Beefy Baby II tires.



# **PERFORMANCE SPECS**

PERFURNANC	E SPECS
Operating load	3,000 lb (1361 kg)
w/counterweight	3,200 lb (1451 kg)
Tipping load	6,000 lb (2722 kg)
w/counterweight	6,400 lb (2903 kg)
Breakout force	
Lift cylinder	6,500 lbf (28 915 N)
Bucket cylinder	7,400 lbf (32 916 N)
Dig depth	
w/bucket flat	0.2 in ( 5 mm)
Cycle time	
Raise	5.4 seconds
Lower	3.3 seconds
Dump	2.1 seconds
Rollback	1.7 seconds

NOTE: SAE rated lift capacities.

# **OPTIONAL BUCKETS**

OF HOMAE BOOKE 13						
Туре	Width inch (m)	Weight lb (kg)	Heaped Capacity ft³ (m³)			
Long Lip	73	553	16.8			
Dirt	(1.9)	(251)	(.48)			
	84	620	19.4			
	(2.1)	(281)	(.55)			
HD Dirt	73	621	16.8			
	(1.9)	(282)	(.48)			
	84	676	19.4			
	(2.1)	(307)	(.55)			
Utility	73	628	22.4			
	(1.9)	(285)	(.63)			
	84	674	25.7			
	(2.1)	(306)	(.73)			
HD Utility	73	696	22.4			
	(1.9)	(316)	(.63)			
	84	755	25.7			
	(2.1)	(343)	(.73)			
Light	82	584	32.5			
Material	(2.1)	(265)	(.94)			

### STANDARD EQUIPMENT

#### **OPERATOR'S COMPARTMENT**

ROPS/FOPS level 1 canopy w/side screens

Tilt ROPS/FOPS

Rear window w/escape provision

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 armrests

Loader control lockout system

Electric parking brake control

Floor cleanout panel

#### **LOADER**

Heavy lift-and-reach linkage Mechanical attachment coupler

#### **ENGINE**

Case 445T/M3 diesel

Tier III Certified

Integral engine oil cooling

Automatic belt tensioner

Grid heater

Battery disconnect and jump start terminal

Fuel filter w/water trap

Dual element air cleaner

95 amp alternator

1125 CCA 12-volt battery

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

Auxiliary function lockout override

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

Heavy-duty rear door

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

Demolition door

Sliding side windows

Air conditioning

Heater (deluxe)

Radio

### **LOADER**

Auxiliary front electric control

Ride Control

Hydraulic attachment coupler

Hydraulic one-way self-leveling

## **ENGINE**

Coolant block heater

#### **HYDRAULICS**

Auxiliary high-flow 3050 psi

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

Attachment case drain plumbing

### **OTHER**

2-speed ground drive

Rotating beacon

Deluxe instrument panel

Road lights

925 lb (420 kg) counterweight

Lift hooks

Drawbar

Language decals

Special paint

Buckets - see page 3

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

Bolt-on bucket edges

Steel tracks

Factory installed tires – see page 2

Bolt-on spill guard

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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