

# Cat® SU488 D

Scoop

## **Specifications**

Dimensions (approximate)		
Overall Length With lifting forks With contoured bucket	29 ft 5 in 32 ft 5 in	8970 mm 9880 mm
Overall Width With lifting forks With contoured bucket	8 ft 11 in 9 ft 7 in	2720 mm 2920 mm
Wheelbase	12 ft 8 in	3860 mm
Scoop utility empty weights with 3,000 lb Ballast	50,000 lb 53,000 lb	22 680 kg 24 040 kg
Ground Clearance (No Axl (Please reference sales drawi 35x15-15 Tires 38x16-15 Tires 44x18-20 Tires	les Spacers) Ing for Ground C 10.5 in 10.5 in 10.5 in	learance profile) 267 mm 267 mm 267 mm
Adjustable Cab Height (min 35x15-15 Tires 38x16-15 Tires 44x18-20 Tires	nimum) 4 ft 1.5 in 4 ft 3 in 4 ft 6 in	1257 mm 1295 mm 1372 mm
Main Frame Height 35X 15-15 Tires 38X 16-15 Tires 44X 18-20 Tires	3 ft 2.5 in 3 ft 4 in 3 ft 7 in	978 mm 1016 mm 1092 mm
Inside turn radius	12 ft 0 in	3660 mm
Outside turn radius	29 ft 4 in	8940 mm
Steering articulation	80°	80°

Lift and	Carry	Capac	ity
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16 tons (14.5 tonnes) at 36 in (914 mm) from the face of lift plate

Engine (4 Cylinder)	
Туре	Diesel, Turbo Charged, and 4 Cycle
Cooling System	water based radiator
Cooling fan	Hydraulic driven fan
Engine make/model	Caterpillar/Deutz 1013 FC
Displacement	290.7 cu in 4.8 L
Maximum power tested	150 hp (112 kW) @ 2,300 rpm
Maximum torque tested	480 lb-ft (651 Nm)

Engine Speeds	
Low idle	1,000 rpm
High idle	2,350 rpm

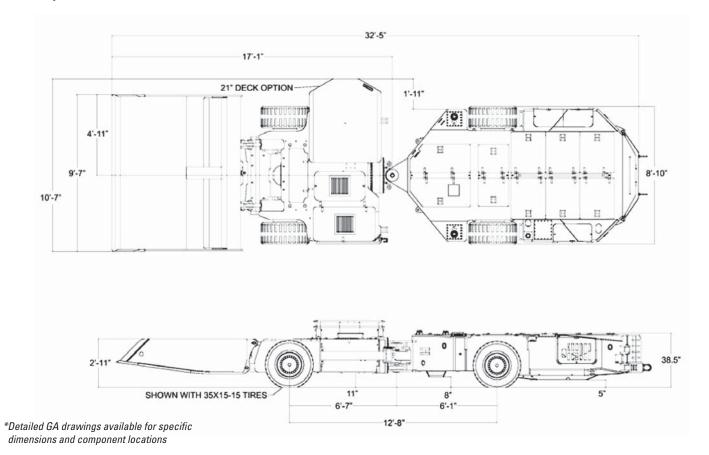
#### Start System

Pneumatic gear reduction

Intake Air Cleaner	
Type	Dry
Intake dual element type	Primary & Secondary



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Exhaust System	
Type	Preliminary DOC
Make	Evarpar/ECS
After Treatment	Dry Scrubber
DPM Control	Disposable filter 97% eff

Transmission	
Type	Power shift with Fwd/Rev mod
Make/Model	Dana 32000 series
Speeds, forward and reverse	4

Torque Converter	
Type	Mounted on engine, single element
Make/Model	Dana integral

Axles (Front/Rear):	
Туре	Outboard Planetary/ SAHR Brakes
Make/Model	Kessler 72 Series
Differential Type	Hydraulic Actuated, Bevel Gear and Pinion Forced Brake Cooling

Wheels	
Make/Model	3 piece (Heavy Duty)

Tires – Standard	
Size Ply rating Inflation media	35x15-15 Bias Urethane Fill
Size Ply rating Inflation media	38x16-15 Bias Urethane Fill
Size Ply rating Inflation media	44x18-20 Bias Urethane Fill
Load	20,100 lbs @ 5 mph 9120 kg @ 8 kph



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Hydraulic Filtration	
Steer/brake system	Pressure 10 micron
Bucket/PTO system	Pressure 10 micron
Auxiliary system	Pressure 10 micron Tank mounted, 25 micron
Common Return	replaceable bypass

Hydraulic Systems	
Steer/brake system	Open center, HRO Control
Bucket/PTO system	Open center/ Motor Spool
Auxiliary system	Open center, HRO Control
Tank type	Sealed

Main Hydraulic Pump		
Туре	Gear	
Std pump output @ 2,000 rpm	28 gpm	106 lpm

Cooling/Fan Pump		
Туре	Gear	
Std pump output @ 2,000 rpm	4.5/12 gpm	17/45 lpm

Cylinders	
Type	Double acting
Rods	Hard chromed
Counterbalance load	Lock valves Lift & Tilt (opt)

Steering System	
Control vale	Open center
Actuation	HRO Control

Accumulator Brakes		
Type	Piston	
Quantity x capacity	116 cu in	1.9 L
Operation Pre charge	900 psi Nitrogen p	6.2 MPa ressure

Bucket System	
Control valve	Open center
Actuation	HRO

Articulation	
Bearing type and size	Pin & bearing
Bush material	Hardened steel
Pin material	Hardened steel
Degrees of turn either side	45°

Oscillation	
Type	Ball Bearing at Articulation
Degrees up and down from horizontal	15°

Seating (Driver)	
Type	Adjustable Cross-seated

Canopy	
Туре	Adjustable CAB Certified to MSHA req

Electrical System	
Type	Approved flameproof
Voltage	12
Polarity	Floating

Lights	
Number/location	2 front, 2 rear
Type	VICTOR

Alternator	
Drive	Hydraulic
Type	Caterpillar Flameproof

Pneumatic System	
Compressor type	Piston engine gear driven
Governed pressure	150 psi 1.03 MPa
Relief pressure	210 psi 1.45 MPa
Air receiver volume	28 gallon 106 L



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Service Capacities	
Hydraulic tank	70 gal 265 L
Fuel Tank	35 gal 132 L (MSHA Limited)
With 35x15-15 Tires 1st gear max 2nd gear max 3rd gear max 4th gear max	1.8 mph 2.9 kph 3.7 mph 6.0 kph 6.4 mph 10.3 kph 11.1 mph 17.9 kph

#### **Maximum Tractive Effort**

Refer to engineering for information dependant on the applications

Grade-ability	
Front to rear	Up to 30%

All specifications are subject to change without notice.

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