



Cat[®] SU488 LHD

Scoop

Specifications

Dimensions (approximate)

| | | |
|--|-------------|-----------|
| Overall Length | | |
| With lifting forks | 32 ft 6 in | 9910 mm |
| With bucket | 32 ft 6 in | 9910 mm |
| Overall Width | | |
| With lifting forks | 9 ft 4 in | 2845 mm |
| With contoured bucket | 9 ft 4 in | 2845 mm |
| Wheelbase | 12 ft 11 in | 3940 mm |
| Scoop utility empty weights | 43,000 lb | 19 500 kg |
| with 3,000 lb Ballast | 46,000 lb | 20 870 kg |
| Ground Clearance (No Axles Spacers) (Please reference sales drawing for Ground Clearance profile) | | |
| 35x15-15 Tires | 10 in | 254 mm |
| 38x16-15 Tires | 11 in | 280 mm |
| 44x18-20 Tires | 14 in | 356 mm |
| Adjustable Cab Height (minimum) | | |
| 35x15-15 Tires | 3 ft 8 in | 1120 mm |
| 38x16-15 Tires | 3 ft 9 in | 1140 mm |
| 44x18-20 Tires | 4 ft 0 in | 1220 mm |
| Main Frame Height | | |
| 35X 15-15 Tires | 3 ft 7 in | 1090 mm |
| 38X 16-15 Tires | 3 ft 9 in | 1140 mm |
| 44X 18-20 Tires | 4 ft 0 in | 1220 mm |
| Inside turn radius | 12 ft 0 in | 3660 mm |
| Outside turn radius | 29 ft 4 in | 8940 mm |
| Steering articulation | 80°/Total | 80°/Total |

Lift and Carry Capacity

12 tons (10.9 tonnes) at 36 in (914 mm) from bucket/RAS pivot

Engine (4 Cylinder)

| | |
|-----------------------|------------------------------------|
| Type | Diesel, Turbo Charged, and 4 Cycle |
| Cooling System | Water based radiator |
| Cooling fan | Hydraulic driven fan |
| Engine make/model | 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 (650 Nm) |

Engine Speeds

| | |
|-----------|-----------|
| Low idle | 900 rpm |
| High idle | 2,450 rpm |

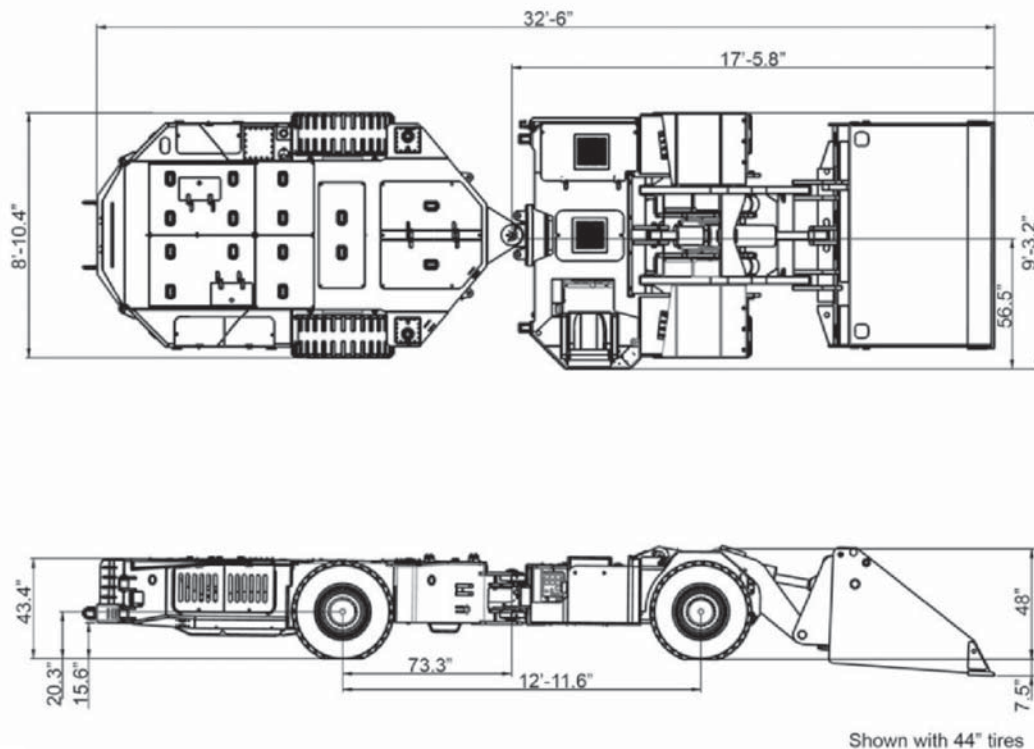
Start System

| | |
|---------------------|--------------------|
| Starter motor type | Electronic 24 Volt |
| Optional motor type | Electronic 12 Volt |

Intake Air Cleaner

| | |
|--------------------------|---------------------|
| Type | Dry |
| Intake dual element type | Primary & Secondary |

Scoop—SU488 LHD



*Detailed GA drawings available for specific dimensions and component locations

Exhaust System

| | |
|-----------------|-----------------------|
| Type | Preliminary DOC |
| Make | Evarpar/ECS |
| After Treatment | Optional |
| DPM Control | Ceramic filter option |

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):

| | |
|-------------------|--|
| Type | Outboard Planetary/Optional Inboard Planetary |
| Make/Model | Kessler 72 Series Optional John Deere 1200 Bevel gear and pinion |
| Differential type | Hydraulic Actuated Brake Cooling Std w/Kessler Axle |

Wheels

| | |
|------------|----------------------|
| Make/Model | 3 piece (Heavy Duty) |
|------------|----------------------|

Tires – Standard

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

Scoop—SU488 DN

Hydraulic Systems

| | |
|--------------------|----------------------------|
| Steer/brake system | Open center, Pilot Control |
| Bucket/PTO system | Open center, Pilot Control |
| Auxiliary system | Open center, Pilot Control |
| Tank type | Sealed w/Breather |

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 |

Main Hydraulic Pump

| | | |
|-----------------------------|--------|---------|
| Type | Gear | |
| Std pump output @ 2,000 rpm | 28 gpm | 106 lpm |

Cooling/Fan Pump

| | | |
|-----------------------------|------------|-----------|
| Type | 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 |

Steering System

| | |
|---------------|---------------|
| Control valve | Closed center |
| Actuation | HRO Control |

Accumulator Brakes

| | | |
|----------------------|-------------------|---------|
| Type | Piston | |
| Quantity x capacity | 116 cu in | 1.9 L |
| Operation Pre charge | 900 psi | 6.2 MPa |
| | Nitrogen pressure | |

Bucket System

| | |
|---------------|-----------------------|
| Control valve | Closed center w/float |
| 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 Cab |
|------|----------------|

Canopy

| | |
|------|--------------------------------------|
| Type | Adjustable CAB Certified to MSHA req |
|------|--------------------------------------|

Electrical System

| | |
|----------|----------|
| Type | Open |
| Voltage | 12/24 |
| Polarity | Floating |

Lights

| | |
|-----------------|-----------------|
| Number/location | 2 front, 2 rear |
| Type | Ocenco/MCI |

Alternator

| | |
|-------|-------------|
| Drive | Belt |
| Type | 14V/90 amps |

Scoop—SU488 DN

Service Capacities

| | | |
|----------------|--------------------------|-------|
| Hydraulic tank | 70 gal | 265 L |
| Fuel Tank | 35 gal (MSHA Limited) | 132 L |

With 35x15-15 Tires

| | | |
|--------------|----------|----------|
| 1st gear max | 1.8 mph | 2.9 kph |
| 2nd gear max | 3.7 mph | 6.0 kph |
| 3rd gear max | 6.4 mph | 10.3 kph |
| 4th gear max | 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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