

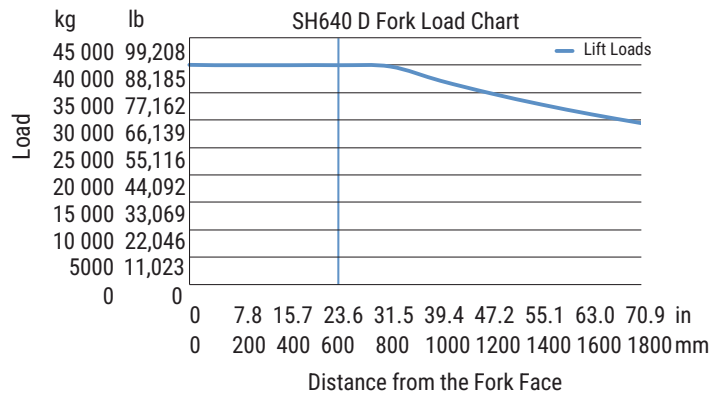


# ROOF SUPPORT CARRIER GSH640D

## Specification

### Capacities

Tractive Effort, Maximum	28 000 kg	61,729 lb
Winch (Front)	20 000 kg	44,092 lb
Maximum Un-braked Trailer Mass	20 000 kg	44,092 lb
Capacity of Tow Hitch	40 000 kg	88,184 lb
Lift SAE @ 600 mm (23.6 in) from Fork Face	40 000 kg	88,184 lb



### Weight

Unladen with Full Tanks	41 000 kg	90,390 lb
Maximum Laden	81 000 kg	178,574 lb

### Engine (6 Cylinder)

Type	Diesel, Turbocharged	
Cooling System	Coolant Based Radiator	
Radiator Position	Vertical Rear	
Cooling Fan	Hydraulic Driven Fan	
Displacement	7.2 L	439.3 in <sup>3</sup>
Maximum Power Gross	171.5 kW (230 hp) @ 2,200 rpm	
Maximum Torque Tested	895 N·m (660 lb-ft) @ 1,700 rpm	

### Engine Speeds

Low Idle	800 rpm
High Idle	2,300 rpm

### Fuel Consumption

At Full Power	39.4 L/hr	10.4 gal/hr
Average Mine Duty	20-40 L/hr	5.3-10.5 gal/hr

### Exhaust Conditioner

Type	Flameproof Wet
Make	Caterpillar
Exhaust Filter	Replaceable Element except China
Exhaust Flame Trap	Replaceable China and RSA
Aftertreatment	Catalytic Exhaust Purifier

### Transmission

Speeds, Forward and Reverse	4
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### Torque Converter

Type	Integral
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### Axles

Front Axle	Heavy Duty Fixed
Rear Axle	Heavy Duty Trunnion Mount

### Wheels/Tires – Standard

Size	1371 mm O/D × 559 mm Wide 55 in O/D × 22 in Wide
Inflation Media	Solid
Wheel Chains	Optional

### Ground Pressure

Laden Front	1330 kPa	192 psi
Laden Rear	500 kPa	72 psi
Un-laden Front	500 kPa	72 psi
Un-laden Rear	753 kPa	109 psi

### Service Brake

Type	Totally Enclosed, Wet Type
Application	Spring Applied Hydraulic Released

### Park Brake

Type	Totally Enclosed, Wet Type
Application	Spring Applied Hydraulic Released

### Articulation

Degrees of Turn Either Side	45 degree
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### Oscillation

Degrees Up and Down from Horizontal	6 degree
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### Canopy

Type Protective Device	MDG1
Optional ROPS/FOPS	

### Electrical System

Type	Approved Flameproof
Voltage	24V

### Shutdown System

System Type	Cat DCS Electronic Intrinsically Safe Approved
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### Lights

Number/Location	STD 2 Front, 2 Rear
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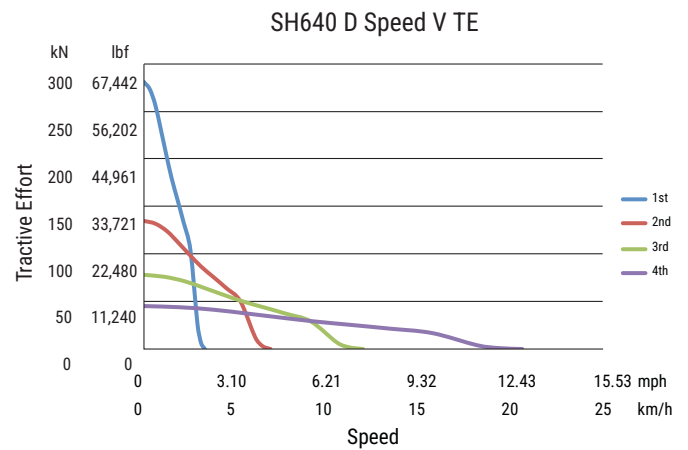
### Service Capacities

Hydraulic Tank	450 L	118.9 gal
Fuel Tank	350 L	92.4 gal
Transmission/Converter Oil	40 L	10.6 gal
Drop Box Oil	8 L	2.1 gal
Engine Crankcase Oil	25 L	6.6 gal
Engine Cooling System Water	72 L	19.0 gal
Axle Oil (Each)	60 L	15.9 gal
Water Make Up Tank	450 L	118.9 gal
Main Air Receiver	150 L	5.3 ft <sup>3</sup>

### Rated Speed/Un-laden/No Grade

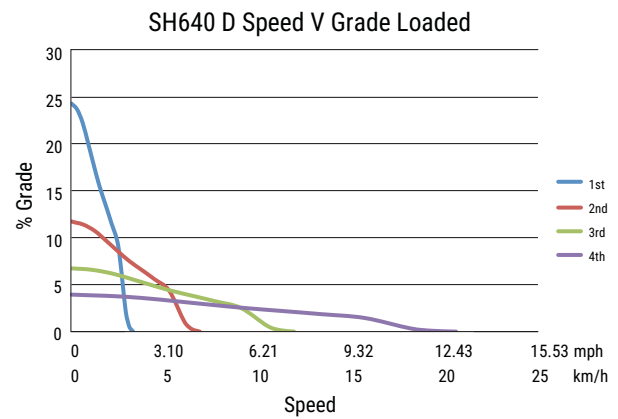
1st Gear	2.9 km/h 1.8 mph
2nd Gear	6.1 km/h 3.8 mph
3rd Gear	10.5 km/h 6.5 mph
4th Gear	18.1 km/h 11.3 mph

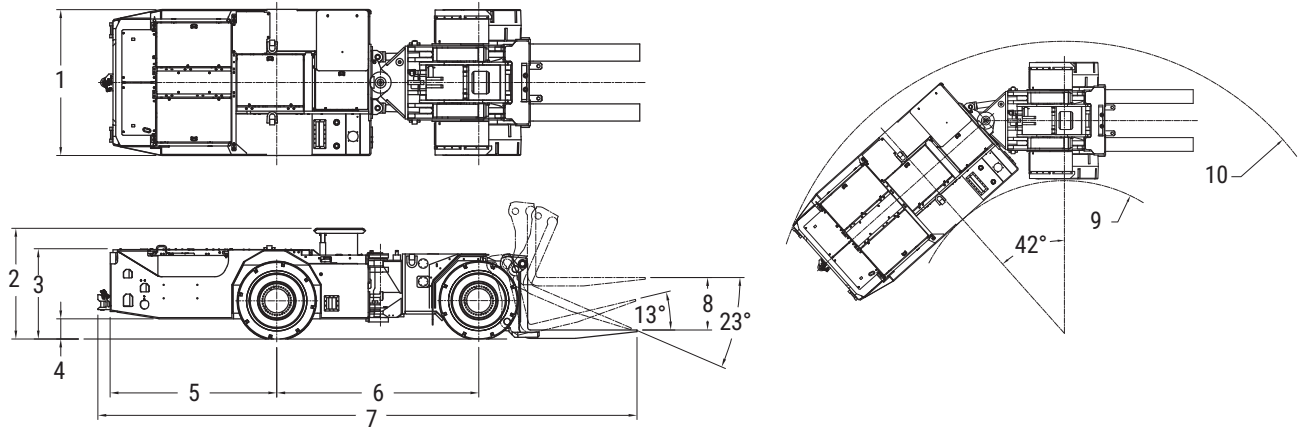
### Maximum Tractive Effort



### Grade Ability

Front to Rear	1:4
Side to Side (Empty)	1:4
Side to Side (Laden)	1:8





### Dimensions (All dimensions are approximate.)

1 Width – Overall	2600 mm	102.4 in
2 Height – Top of ROPS		
LOW Mount	1840 mm	72.4 in
MID Mount	1900 mm	74.8 in
HIGH Mount	1960 mm	77.2 in
3 Height – Top of Covers	1610 mm	63.4 in
4 Height – Ground Clearance	360 mm	14.1 in
5 Length – Rear Axle to Bumper	2970 mm	116.9 in
6 Length – Wheel Base	3600 mm	141.1 in
7 Length – Overall	9610 mm	378.3 in
8 Lift Height of Fork	935 mm	36.8 in
9 Turning Radius – Inside Dimension	3400 mm	133.9 in
10 Turning Radius – Outside Dimension	6510 mm	256.3 in

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## OPTIONAL EQUIPMENT

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- Load indication gauge system
- Cat 3126 DTI flame proof package
- Fire suppression systems
- ROPS FOPS certified canopy
- Tow chains
- Wheel chains
- Alternative approved electrical components (lights, alternators, hour meters etc.)
- Exhaust flame trap (optional) wet, standard for China, standard for RSA
- Auto lubrication system
- Chock carry plate
- Power assist trailer connection and fixed fifth wheel plate
- 12V electrical system STD 3126 DTI

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