

Machine Specifications - CHD100-302



Engine

Make and Model Cummins QSX-15
 Max Horsepower 535 @ 2100 RPM
 Max Torque 1800 Ft/Lbs @ 1400 RPM
 Bore and Stroke 5.4" x 6.7"
 No. of Cylinders 6
 Displacement 915 Cu/In (15 liters)

Air Cleaner

Donaldson Two Stage Dry Type

Electrical System

Type 24 Volt Negative Ground/24 Volt Start
 Alternator 100 AMP
 Circuit Breakers (lights) 30 AMP
 Circuit Breakers (accessory) 20 AMP
 Batteries (2) 12 Volt-8D @ 205 AMP Hr. each

Torque Converter

Dana 8000 Series Single Stage, Stall Torque Ratio 2.292:1

Transmission

Dana 8000 Series Power Shift; 4 Speeds Fwd/Rev with 1:1.118
 Converter Ratio

Range	Ratio	Speed, Unladen
1.....	4.07:1	3.3 mph (5.3 km/h)
2.....	2.27:1	6.0 mph (9.7 km/h)
3.....	1.29:1	10.3 mph (16.6 km/h)
4.....	0.71:1	18.0 mph (29.0 km/h)

Axles

Chassis No Spin w/Brakes
 Bogie Posi-Torque w/o Brakes
 Type Planetary
 Brakes Hydraulic Wet Disc

Tires

Size 29.50 x 29 Radial
 Hydroflation: Weight Each Tire 2386 lbs
 All Tires Are Hydroflated

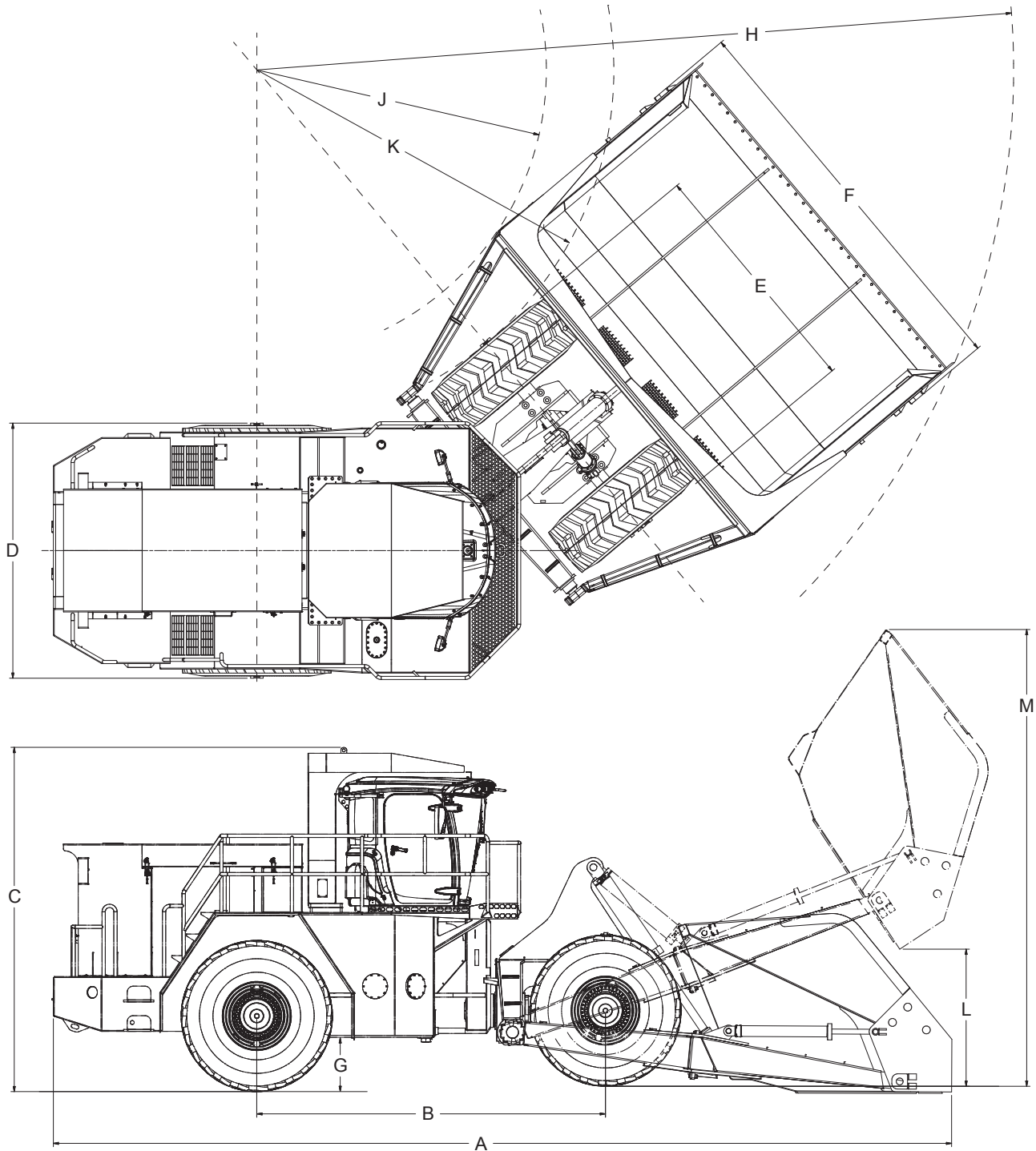
Hydraulic System

Steering/Dump 70 GPM @ 2100 Engine RPM
 Hoist 60 GPM @ 2100 Engine RPM
 Side Tilt 10 GPM @ 2100 Engine RPM
 Steering Cylinder (2) 5" x 35" (127mm x 889mm)
 Dump Cylinder (2) 5" x 36" (127mm x 914mm)
 Hoist Cylinder (1) 8" x 41" (203mm x 1041mm)
 Side-Tilt Cylinder (1) 6" x 5" (152mm x 127mm)

Service Refill Capacities

Fuel Tank 295 Gals (1117 liters)
 Hydraulic Oil 160 Gals (606 liters)
 Crankcase (Refill) 12 Gals (45 liters)
 Cooling System 40 Gals (151 liters)

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Dimensions (approximate)

A. Overall Length	80 yard bucket	36' 7" (11151mm)
	100 yard bucket	38' 1" (11609mm)
B. Wheelbase		14' 9" (4505mm)
C. Height to Top of ROPS (roll over protection cover)		14' 7" (4451mm)
D. Outside Chassis Width (Tires)		11' (3353mm)
E. Outside Bogie Width (Tires)		11' 3" (3429mm)
F. Bucket Width	80 yard bucket	14' 11" (4547mm)
	100 yard bucket	16' 11" (5163mm)
G. Ground Clearance at Chassis		2' (603mm)
H. Turning Radius - Outside	80 yard bucket	30' 6" (9296mm)
	100 yard bucket	32' 1" (9779mm)
J. Turning Radius - Inside, at Bucket	80 yard bucket	12' 6" (4597mm)
	100 yard bucket	12' 3" (3741mm)
K. Turning Radius - Inside, at Front Tire		15' 2" (4613mm)
L. Maximum Dump Height	80 yard bucket	5' 2" (1575 mm)
	100 yard bucket	5' 10" (1773 mm)
M. Maximum Height in Dump Position	80 yard bucket	18' (5486mm)
	100 yard bucket	19' 4" (5905mm)

Weights and Functions (approximate)

Unit Weight/Hydroflation.....	96,500 lbs	(43,772 kg)
Bogie End/Hydroflation.....	54,500 lbs	(24,721 kg)
Chassis End/Hydroflation	42,000 lbs	(19,051 kg)
Dump Angle at Maximum Height.....	54°	
Bucket Push & Carry Capacity.....	100 cu/yd (76.5 cu/m)	
Bucket Lift & Carry Capacity	50 cu/yd(38.2 cu/m)	
Articulation.....	40° each way	
Oscillation.....	15° each way	
Maximum Bucket Forward Tip.....	77°	
Side Tilt.....	5° each way from horizontal	

OPTIONAL EQUIPMENT

Standard and special options are available. Contact your Wagner dealer for details.

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