

wagner

A Division of Allied Systems Company

CD1000 Coal Dozer



Engine

Make and Model..... Cummins N14-C450
Max Horsepower 450 @ 2100 RPM
Max Torque..... 1500 Ft/Lbs @ 1400 RPM
Bore and Stroke..... 5.5" x 6.5"
No. of Cylinders..... 6
Displacement..... 855 In³ (14 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

Clark 8000 Series Single-stage, 3 Elements - Stall Torque Ratio
2.53:1

Transmission

Clark 8000 Series Power Shift - Spur Gear; 4 Speeds Fwd. and
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.....	1:1	18.0 mph (29.0 km/h)

Axles

Make..... Clark
Model (Chassis)..... 21D4354 w/No-Spin
Model (Bogie)..... 21D4354 Posi-Torque
Type..... Planetary
Brakes Hydraulic Wet Disc
Carrier Ratio 4.857:1
Planetary Ratio 5.368:1
Total Reduction..... 26.072:1

Tires

Size..... 29.50 x 29 Radial
Hydroflation: Weight each Tire 2386 Lbs (1083 Kg)
All Tires are Hydroflated

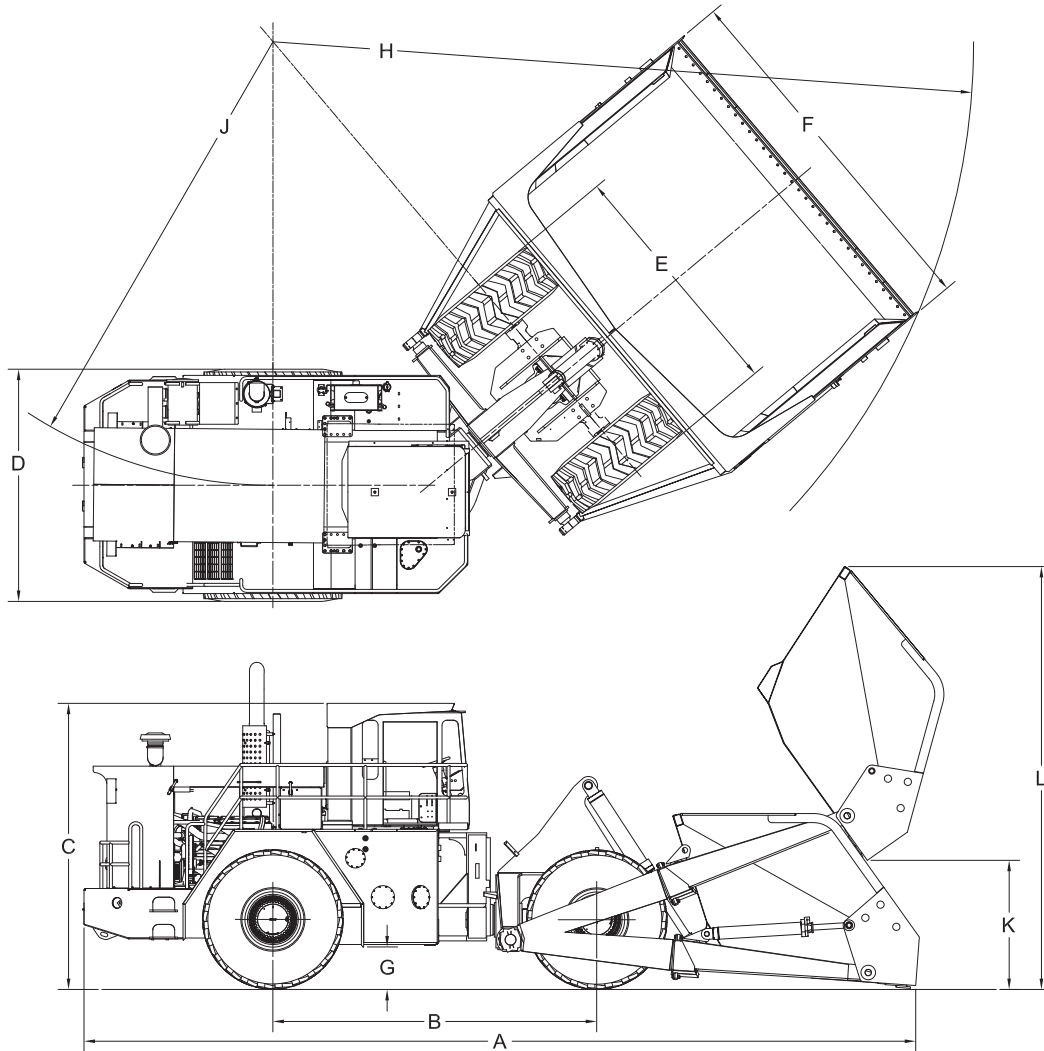
Hydraulic System

Steering Pump..... 72 GPM @ 2100 Engine RPM
Hoist Pump..... 72 GPM @ 2100 Engine RPM
Dump Pump..... 56 GPM @ 2100 Engine RPM
Side Tilt/Pilot Pump 12.5 GPM @ 2100 Engine RPM
Steering Cylinder (2)..... 6" x 32"
Dump Cylinder (2) 6" x 36"
Hoist Cylinder (2)..... 9" x 41"
Side-Tilt Cylinder (optional) (1)..... 6" x 5"

Service Refill Capacities

Fuel Tank..... 295 Gals (1117 liters)
Hydraulic Oil 160 Gals (606 liters)
Crankcase (Refill)..... 12 Gals (45 liters)
Cooling System 22.5 Gals (85 liters)

CD1000



Dimensions (approximate)

A. Overall Length	36' 10" (11227mm)	G. Ground Clearance (Chassis).....	1' 10" (559mm)
B. Wheelbase	14' 10" (4521mm)	Ground Clearance (Differential).....	2' 0" (610mm)
C. Cab Height	12' 9" (3886mm)	H. Turning Radius - Outside Bucket.....	28' 4" (8636mm)
D. Outside Chassis Width (Tires).....	10' 10" (3302mm)	J. Turning Radius - Centerline.....	18' 2" (5537mm)
E. Outside Bogie Width (Tires)	10' 8" (3251mm)	K. Maximum Dump Height.....	4' 0" (1219mm)
F. Bucket Width	14' 7" (4445mm)	L. Maximum High in Dump Position	16' 5" (5004mm)

Weights and Functions (approximate)

Unit Weight/Hydroflation.....	92,750 lbs (42,109 kg)	Bucket Lift & Carry Capacity Approx.	20 yd ³ (15.3 m ³)
Bogie End/Hydroflation.....	56,000 lbs (25,424 kg)	Articulation.....	40° each way
Chassis End/Hydroflation	36,750 lbs (16,685 kg)	Oscillation.....	15° each way
Dump Angle at Maximum Height.....	54°	Maximum Bucket Forward Tip	77°
Bucket Push & Carry Capacity Approx.....	40 yd ³ (30.6 m ³)	Side Tilt (Optional).....	6" each way from horizontal

Optional Equipment: Standard and special options are available. Contact the Allied Factory for details.

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