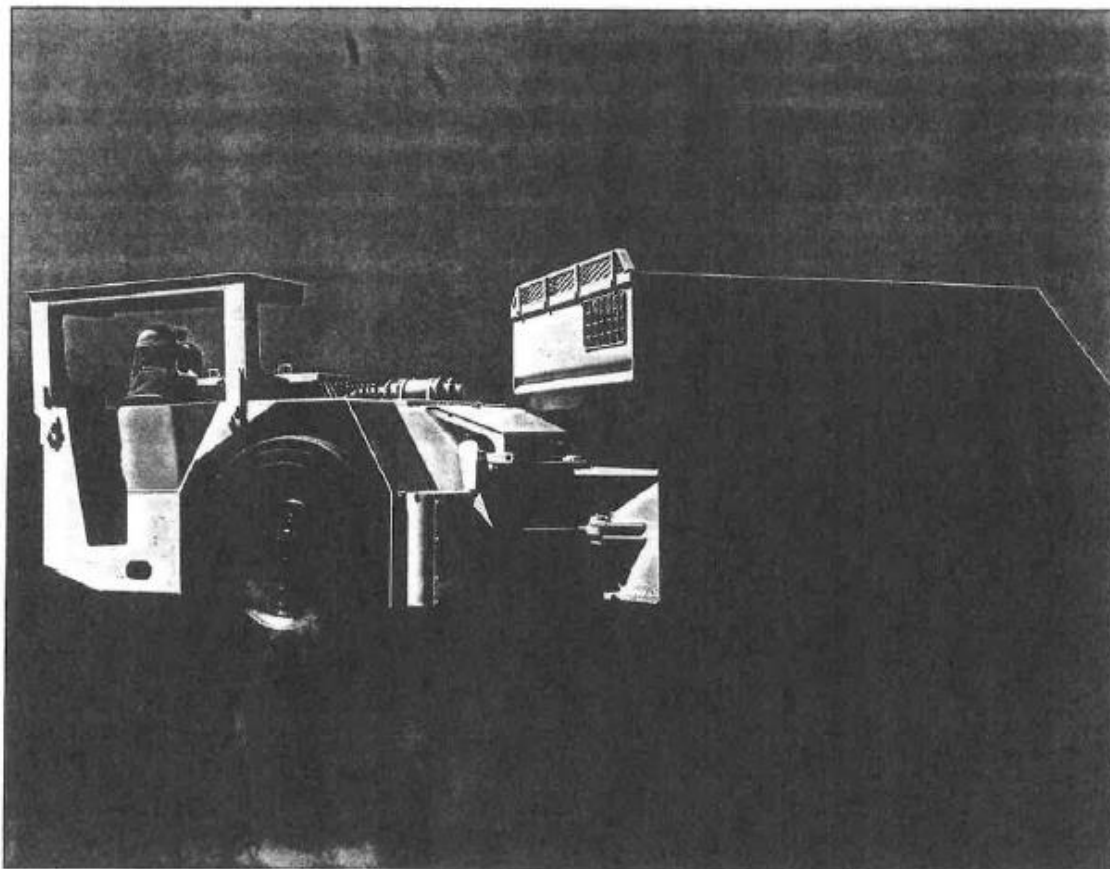


# EJC 413 & 415

***"World famous  
for longevity"***



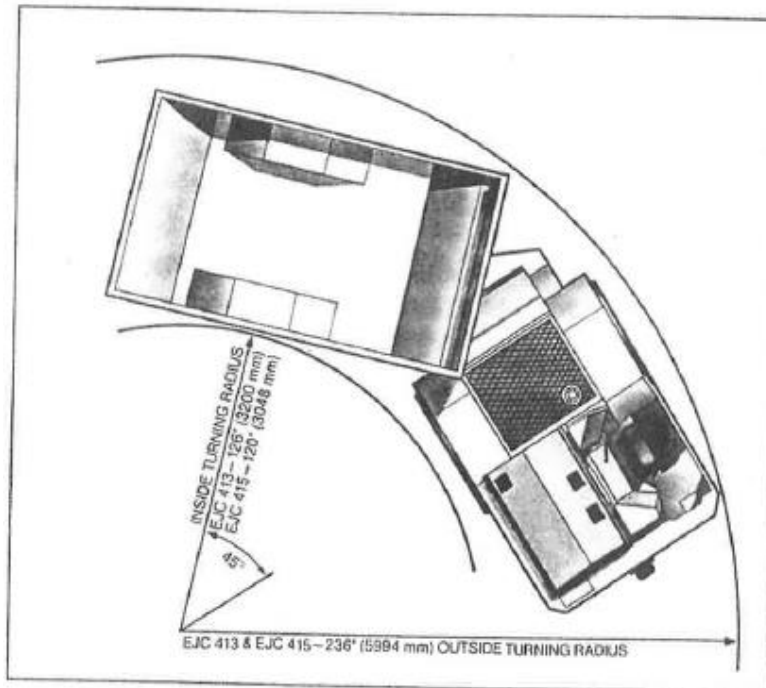
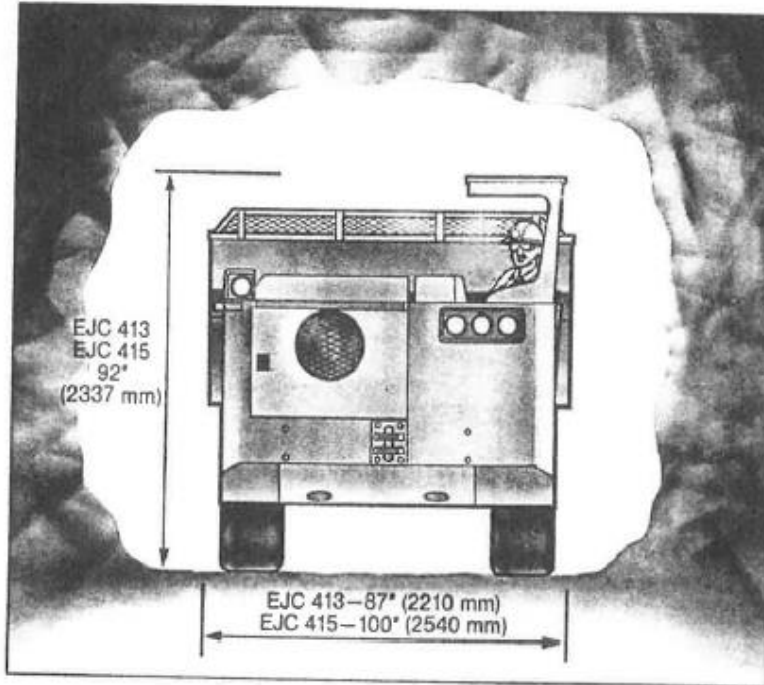
*EJC 413 & 415 End Dump Trucks*

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**EIMCO JARVIS CLARK**

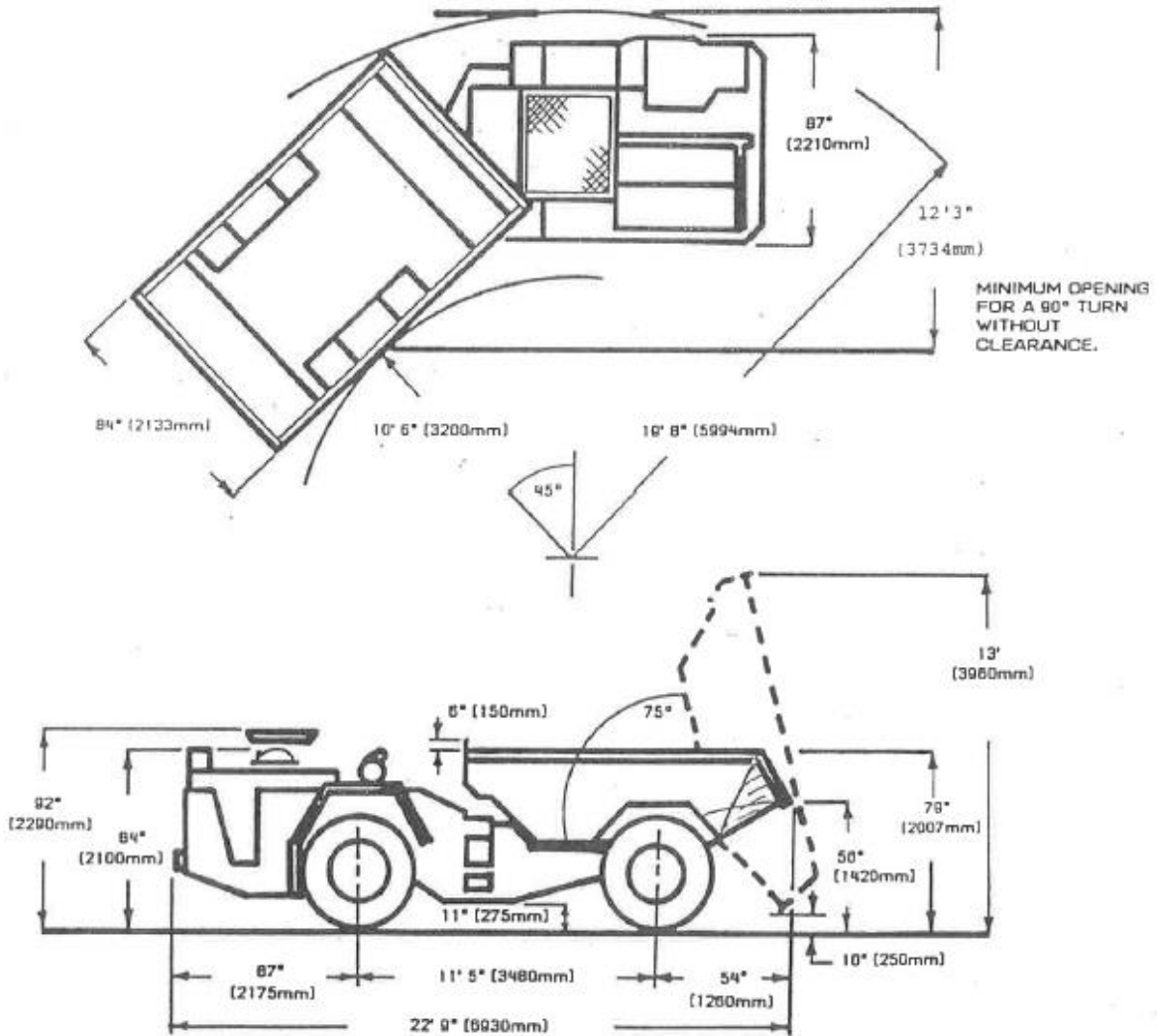
***“Very maneuverable with excellent gradeability for improved cycle times”***



EJC 413 AND EJC 415

40 Series Detroit Diesel Engine

4 Wheel Drive 13 and 15 Ton End Dump Truck



DIMENSIONS ARE APPROXIMATE AND APPLY ONLY TO STANDARD MACHINES.

CAPACITIES (Standard Box)

Payload.....26,000 lb (57,200 Kg)  
Loaded Capacity SAE.....9 yd<sup>3</sup> (6.9 m<sup>3</sup>)  
Struck Capacity.....8 yd<sup>3</sup> (6.1 m<sup>3</sup>)  
Box Raise time.....14 second

WEIGHT

Operating.....33,000 lb (15,000 kg)

ENGINE

Type .....40 Series Detroit  
Diesel, 190 Horsepower @2200rpm.

INTAKE

Standard Air Cleaner

Type.....Dry  
Make.....Donaldson

EXHAUST

Standard Conditioner

Type.....Catalytic  
Make.....Engine Control System

POWER TRAIN

Transmission/Converter

Type.....Powershift  
Make/Model.....Clark 13.1HR 28421  
Speeds Forward/Reverse.....4  
Gear Ratios.....4.84, 2.29, 1.32, .73:1  
Pump Drive Ratio.....1.02:1  
Converter Type.....Single Element  
Converter Stall Ratio.....2.728:1

Axles

Type.....Planetary  
Make/Model.....Clark, Front FD19640  
Rear, RD33640

Differential Type & Ratio.....Standard 6.33:1  
Planetary Ratio.....4:125:1  
Overall Ratio.....26.125:1

WHEELS

Wheel Nut Torque.....400 lb ft (542 Nm)

TIRES

Standard

Type.....E-4 Tube-Type, Extra Tread for Mining  
Size.....14.00 X 24  
Ply Rating.....20  
Inflation Pressure.....80 psi (551 kPa)

HYDRAULIC SYSTEM

Circuits

Brake Circuit..Closed Center Unloading 1870-2200 psi  
(12.8 - 15.1 MPa)

Steer Circuit.....Open Center, 2000 psi (13.8 MPa)

Dump Circuit.....Open Center, 2000 psi (13.8 MPa)

Applicable Fluids.....Mineral Oil and  
60/40 Invert Emulsion

Supply.....Sealed and Pressurized Tank  
Filtration

Suction.....100 Mesh Strainer, Magnetic, Washable

Return.....In Tank, 10 micron, Replaceable Element

Pressure....In Line, 6 micron, Replaceable Element

Pump

Steering/Brakes/Dump

Type.....Gear

Make.....Hydrex

Output at 2300 Engine rpm...34 gpm (128 liter/min)

Cylinders

Type.....

Double Acting, 'V' Style Piston and 'U' Cup style

Rod Packing. Rods Case hardened and hard Chromed.

Bore X Stroke X Rod Diameter:

(1) 5 X 16 X 2 (127 X 406.5 X 50.8 mm)

Dump. Type.....2 Stage Telescopic, Double Acting

Bore X Stroke:

(1) 7.25/6.0 X 50.5 (184/152 X 1275 mm)

Steering System

Control Valve.....Open Center

Actuation.....Stick Direct

Cylinder Relief.....2000 psi (13.8 MPa)

Dump System

Control Valve.....Open Center  
Actuation.....Stick Direct  
Cylinder Relief.....2000 psi (13.8 MPa)

Service Brake System

Control Valve.....Dual, Closed Center  
Actuation.....Foot Pedal  
Application Pressure.....1500 psi (10.33 MPa)  
Accumulators

Type.....Piston, Nitrogen Charged  
Quantity/Capacity.....(2) 1 qt. (.94 liter)  
Pre-charge Pressure.....800 psi (5.5 MPa)

Park Brake System

Control Valve.....3 way  
Actuation.....Push Button  
Release Pressure.....1400 psi (9.6 MPa)  
Accumulator

Type.....Piston, Nitrogen Charged  
Quantity/Capacity.....(1) 1.5 gal (5.7 liter)  
Precharge Pressure.....800 psi (5.5 MPa)  
- Push button applies parking and service brakes  
together. Park brake tested by separate button.

STEERING

Type.....Center Articulated, Hydraulic

SERVICE BRAKES

Type .....Double Caliper Dry Disc

Make.....Clark  
Application.....Hydraulic with Accumulator  
Reserve, Front and Rear Independent Systems  
Location.....Each Wheel

PARK BRAKE

Type.....Disc  
Make.....B. F. Goodrich  
Application.....Spring Applied, Hydraulically Released  
Location.....Rear Axle Pinion

ARTICULATION

Bearing Type, Size and Material.....Spherical Self  
Aligning, 3" (76 mm) Bore, Hardened Steel  
Pin Material.....Hardened Steel  
Degrees of Turn either Side.....45°

OSCILLATION

Type.....Front Axle Cradle  
Bearing.....Bronze  
Degrees Up and Down from Horizontal.....10°

SEATING

Type.....Cross Seated  
Make/Model.....Irringhausen 5000

CANOPY

Type.....SAE KOPS and FOPS

ELECTRICAL SYSTEM

Voltage.....24  
Polarity.....Negative Ground  
Alternator, Make and Model.....Delco-Remy/30 SI  
Alternator Rating .....60 amp  
Battery  
Quantity.....2 In Series  
Type.....12 Volt  
Capacity 0°F cranking.....700 amp  
Lights.....4 front, 2 rear

SERVICE CAPACITIES

Hydraulic Tank.....33 gal (125 liter)  
Fuel Tank.....39 gal (148 liter)  
Transmission/Converter.....6.5 gal (24.6 liter)  
Engine Crankcase.....5 gal (19 liter)  
Front Differential.....3.2 gal (12.1 liter)  
Rear Differential.....4.2 gal (15.9 liter)  
Planetaries.....1.6 gal (6.0 liter)  
Front Axle.....6.4 gal (24.1 liter)  
Rear Axle.....7.4 gal (27.9 liter)

CAGING DIMENSIONS AND WEIGHTS

Front Section  
Dimensions...144 X 87 X 92" (3,658 X 2,210 X 2,337 mm)  
Weight.....18,500 lb (8,409 kg)  
Front Section without Wheels and Canopy  
Dimensions...144 X 87 X 71" (3,454 X 1,346 X 1,803 mm)  
Weight.....17,000 lb (7,727 kg)  
Rear Section  
Dimensions...116 X 85 X 79" (2,946 X 2,159 X 2,007 mm)  
Weight.....15,000 lb (6,818 kg)  
Rear Section Without Wheels and Box  
Dimensions.....116 X 82 X 34" (2946 X 2083 X 864 mm)  
Weight.....7,500 lb (3,409 kg)  
Box  
Dimensions...142 X 84 X 55" (3607 X 2134 X 1397 mm)  
Weight.....6,500 lb (2,954 kg)  
Axle  
Dimensions.....82 X 28 X 23" (2083 X 711 X 584 mm)  
Weight.....2,500 lb (1,136 kg)

Overloading of slinging equipment could cause personal injury, death or property damage. Due to configuration or options these weights can vary up to 20%. Manufacturer recommends the minimum slinging capacity required by government regulation, safety practices or laws at the customers location.

Removal of a protective structure could cause serious injury or death. Replacement with correctly torqued grade 8 fasteners is mandatory.

All gallons U.S.