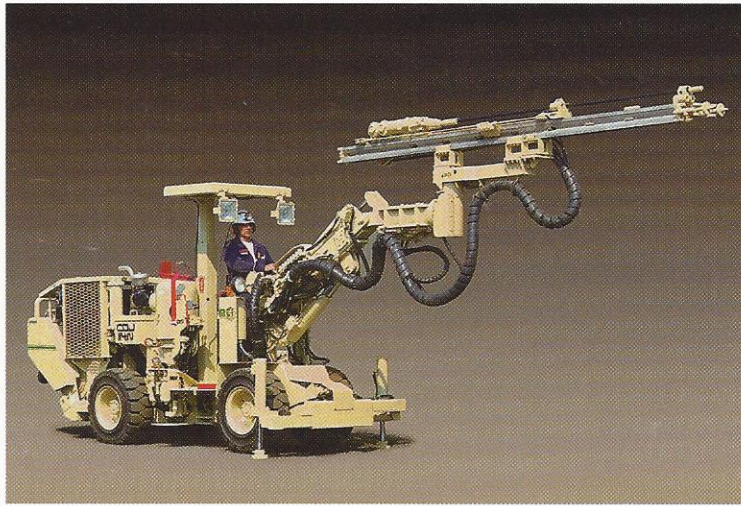


Compact Single-Boom Hydraulic Jumbo



CDJ-114N

The CDJ-114N is a one-boom drilling rig designed to drill vertical, horizontal and angled holes for underground production headings. It supports one hydraulic percussion drifter and can drive headings 11 ft. by 12 ft. (3.35 m by 3.66 m).

Standard Features

- Isuzu C240 diesel engine, 45 hp (34 kw), water cooled, catalytic exhaust purifier, dry element air cleaner
- Hydraulically driven Hamworthy axles, 2 speed drive motors, no-spin differential on engine end, enclosed wet disc spring-apply park brakes
- 50 hp electric power pack driving a tandem gear pump for percussion/rotation and a pressure compensated piston pump for feed/boom movements
- 12v negative ground engine electrics
- CM-14 boom for 14 square metres of coverage
- HC-40 Montabert drifter
- ACH-10EL Montabert aluminium feed (10 ft. (3.05 m) rod)
- 10 micron pressure and return filters
- Front arm jacks
- Safety shut-downs for:
 - engine temperature
 - engine oil pressure
 - hydraulic oil temperature
 - hydraulic oil level
- Two 500 watt drill lights



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General Specifications

Total Length

30 ft. 11 in. (9.42 m)

Width

42 in. (1.07 m)

Height

65 in. (1.65 m)

Weight

14,000 lb. (6,364 kg)

Articulation Angle

40 degrees

Ground Clearance

9 in. (0.23 m)

Gradeability

25% (15°)

Turning Radius

Inside 6 ft. 7 in. (2.01 m)

Outside 11 ft. 11 in. (3.63 m)

Tire Size

7.50 x 15 solid

Tramming Speed

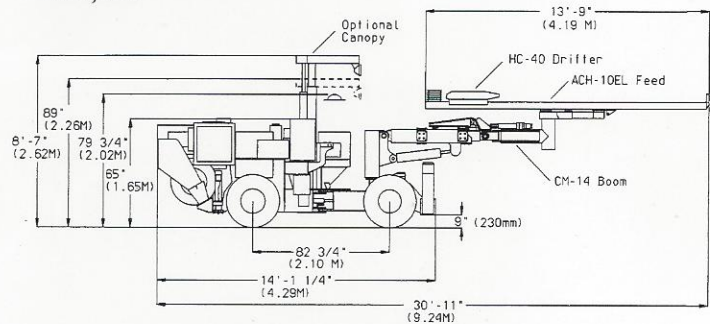
4.5 mph (7.2 km/hr.)

Face Coverage (H x W)

11 ft. x 12 ft. (3.35 m x 3.66 m)

Options

- Deutz F3L 912W engine, 38hp (28 kw)
- 48 in. (1.22 m) overall width
- Boom parallelism
- Aluminium feed for rods up to 13 ft. (3.96 m)
- Fixed length and telescopic feeds
- Electric remote drill console
- Cable reel for 270 ft. (82 m) of cable
- Fire suppression system
- Automatic actuation for fire suppression system
- Operator's canopy
- Air compressor
- Water booster pump
- Rear jacks



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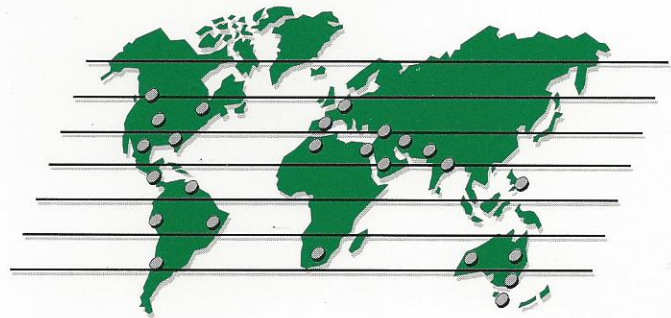
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CDJ-114N

All specifications, while accurate at time of publication, are subject to change without notice. Some features shown in photos and illustrations may be optional.



Authorized Representative

VEIN RUNNER MTI-1XSB

The MTI XSB Series single boom hydraulic rig is designed for drilling vertical, horizontal and angled holes in underground production headings. It features one hydraulic percussion drifter and can drive headings 12 ft by 12 ft (3.66 m by 3.66m).

STANDARD MACHINE SPECIFICATIONS

Weight:	14,000 lb. (6,364 kg)
Height of jumbo:	65 in. (1.65 m)
Height with Canopy Lowered:	89 in. (2.26 m)
Height with Canopy Up:	103 in. (2.62 m)
Length:	30 ft. 11 in (9.24 m)
Width:	42 in. (1.06 m)
Ground Clearance:	9 in. (230 mm)
Articulation Angle:	40 Deg.
Gradeability:	25 % (15 deg.)
Turning Radius:	Inside 79 in. (2.01 m) Outside 143 in. (3.63 m)
Tramming Speed:	4.5 mph (7.2 km/hr)
Tire Size:	7.50 x 15

CARRIER

MTI 42 in articulated carrier
7.50 x 15 tires softy front / rear.
Rear axle oscillation
Hamworthy axles (no spin)
Stick steer with one steering cylinder
Two front extendable jacks
Air / hydraulic oil cooler for tram and drill
Enclosed wet disc spring applied park brake

Engine:

Isuzu C240 diesel engine 496 lb (223 kg) dry weight
Water cooled
45 hp (34 kw) @ 2500 rpm
Donaldson dry type air cleaner
ECS exhaust purifier

Carrier Electrical:

55 amp, 12 volt alternator
1 battery
4 tram lights
two 500 Watt drilling lights
Electric boom controls

Carrier Safety and Shut-Downs:

ABA (Automatic Brake Application)
Engine temperature
Engine oil pressure

Carrier Hydraulics:

1 only 65 cc variable displacement piston pump
Load sense tramming system
Single tram pedal for controlling unit speed / braking
2 speed hydraulic motors (front / rear)

Hydraulic Tank:

Suction strainers
Visual indicator
Naturally asperated with breather
Safety shut downs
Low oil level
High oil temperature
Dirty filter

Filters :

Two HP filters (no by-pass) 10 micron elements with
visual indicators for drifter rotation
and percussion circuit.

One return filter (20 psi by-pass) 10 micron element with
visual indicator for all hydraulic oil returning to tank.
Breather on hydraulic tank
100 mesh / 140 micron suction strainer
Breather on fuel tank

Main Electrics:

50 hp electric motor
Three phase TEFC (Total Enclosed Fan Cooled)
380 volts to 575 volts As requested
50 hz to 60 hz As requested

Electric Cable:

GGC type cable
3 phase
250 ft standard length
274 ft. max. cable length

Electrical Cable Reel:

Has hydraulic motor, chain driven
Level winder
16 in. drum diameter
14 in. drum width
26 in. reel diameter

Control panel:

600 volt panel
120 volts 12 volts with a 3 KVA transformer
NEMA 4 type enclosure

Electric Power Pack:
 (50 hp)

3 pumps in tandem
 65 cc piston percussion pump
 10 us gpm (30 l / per min.) gear pump for rotation
 16 cc pressure compensated piston pump for
 feed / boom.
 3400 psi (234 bar) HP hydraulic circuit

Drifter HC-40i:

Weight: 225 lb (102 kg)
Length: 32.5 in. (826 mm)
Height above drilling steel axis: 3.25 in. (83 mm)
Width including hoses: 14.3 in. (364 mm)
Drilling hole size : 1 1/2 in (38 mm) to 1 3/4 in. (45 mm)
Cable bolting: 2 1/8 in. (51 mm)
Oil flow Percussion: 28 us gpm (105 l/min)
Oil flow Rotation: 8 us gpm (28 l/min)
Operating pressure (min. / max.): 1450 psi(100 bar) to 1885 psi (130 bar)
Input power: 23 kw
Strike frequency: 2620 to 3280 blows / per min.
Energy per blow: 180 to 310 joule
Rotation speed: 120 rpm to 230 rpm
Rotation motor cartridge: .043 (max. torque 800 newton meters)
Front guide pressurization: 22 psi (1.5 bar)
Rock drill oil consumption: 1 drop per second.
Water flushing: 7 gpm (25 l / min.)
Flushing pressure: 115 psi (8 bar) to 174 psi (12 bar)
Standard tooling thread diameter: 1 1/4 in. (32mm) to 1 1/2 in. 38mm)

Boom: XSB Style Boom
 2500 lb (1134 kg)
 Fully universal (drifting, bolting, benching, cross-cuts)
 Face coverage (H x W) 12ft. (360 cm) x 12 ft. (360 cm)
 13 in. (330 mm) boom extension
 23.875 in. (606.43 mm) Feed extention
 Hydraulic boom parallelism
 Boom swing 25 deg. / 25 deg.
 Boom lift max. 30 deg./ below horizontal 25 deg.
 Feed rotation:360 deg.
 Ach 10 EL Montabert Aluminum Feed (10 Ft Rod)

Reservoirs

Capacities

Recommended Oils

Hydraulic Tank:	35 us gallons (133 litres)	Nuto 32
Fuel Tank:	12 us gallons (45.6 litres)	Diesel fuel
Washers:	1.9 us gallons (7.2 litres)	Hydrant 56 Gear oil
Engine oil:	1.61 us gallons (6.1 litres)	15W 40
Engine water capacity:	1.37 us gallons. (5.2 litres)	50 / 50 mix
Lubricator for Drifter:	1.18 us gallons (3.78 litres)	Rock Drill EP 100

