

## In Hole/Longhole Rig

mem-837

blast holes/cable bolts



## why?

Down the hole drilling has proven to be an extremely cost effective method of production drilling for Canadian underground mines. Simultaneously, modern ground control methods have increasingly involved the use of grouted cable bolts.

Unfortunately, the equipment to carry out the drilling required, has generally been sized for larger orebodies. As a result, the rigs are generally larger than can be utilized by a mine with an orebody whose design calls for smaller openings. Furthermore, these rigs are generally more expensive and, with two jumbos required, their cost effective amortization over a limited tonnage is not possible.

The solution to this problem is the combination in Hole Drill, Longhole Drill system described in this brochure. The drill rig, mounted on a six wheel skid steer carrier, allows positioning and anchorage of a feed for a 4" rotary head or a pneumatic drifter. The hydraulic positioning mechanism provides 360 degree rotation and 1.2' m side shift for hole alignment.

# hydraulically positioned & anchored 1.4m 1.0m STROKE 2.6m 1.5m CYL FEED 2.2m 0.6m CROWD

### facts

## In hole/longhole drill system\*

#### **COMPONENTS\***

JOHN CHENTS
Skid Steer Carrier
Width 1.4 m
Length 2.1 m
Power (2) hydraulic motors 4.5 kW
Overall gear reduction 1:39
Maximum travel speed 1.5 km/hr
Outrigger jacks
Power Pack
Electric fan cooled totally enclosed 15 kW
Air/hydraulic option available
Hydraulic System
Pressure 140 bar
Capacity 60 l/m
Hydraulic tank, return filtration 150 I
Positioning & Anchoring Mechanism
Overall width 1.7 m
Longitudinal dump off vertical +15°, -60°
Anchoring cylinder stroke 1.0 m
Rotation 360º
Horizontal traverse 1.2 m
Crowd 0.6 m
Feed Cradle
Travel 1.5 m
Tube/rod change 1.2 m
Feed force at 140 bar 0 to 3650 kgf
Overall length 2.6 m
4" In Hole Drill Rotary Head (102 mm)
Variable speed 0 to 50 rpm
Variable torque to maximum 1500 Nm
Axial bearing capacity18 tonnes
Hydraulic flow at 50 rpm 45 l/m
Pressure 140 bar
Overall gear ratio 1:4.1
Weight 140 kg
Pneumatic Longhole Drill Options
to suit customer fleet
Air consumption at 6 bar 170 l/s
Centralizers
MEMCO hydraulically actuated double acting

jaws for ITH drill tube or extension rods

#### **ADVANTAGES**

One man handles complete drilling function
Universal anchorage allows ring, fan or bench drilling
No hard physical labour when setting up or moving
Low centre of gravity ensures stability
Six wheel skid steer carrier ensures manoeuvreability
Accurate effortless positioning and locking
More than one hole from a set up
Ensures parallelism in a line for drop raising
Can drill conventional 54 mm longhole or 114 mm
range
Rigid anchorage guarantees accuracy of holes
Rotary head designed especially for uphole drilling
Can operate on high pressure air
High torque infinitely variable hydraulic rotation
Maximizes bit life

#### **HEADING SIZE LIMITATIONS**

Minimum heading (0.9 m rod change) 2.4 x	2.4	m
Maximum height for 360° drilling	3.7	m
Can drill bench holes standing free		

#### **APPLICATIONS**

Ring drilling
Benching
Fan drilling
Parallel longholing
Undercutting for block caving
Drop raising
Cable Bolting

#### HANDLING SPECIFICATIONS

Shipping	weig	ht	 	 			37	00	kg
Minimum									
Shipping	size .		 	 3.	4 x	1.7	х	2.3	m
Operating	size		 	 3.	4 x	1.7	x	2.7	m

\*The manufacturer reserves the right to change the specifications or design of this machine at any time without notice.



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