

MINDRILL

Simba Junior

Drill Rig with MDS120F Drifter



www.mindrill.com

Long Hole Drilling Machine

One man operated pneumatic rig drilling for vertical or inclined rings in sub-level stopping.

The rig consists of two drill units and one control table.

RELIABILITY UNPARALLELED POWER UNMATCHED



Simba Junior ring drilling rig is a high productive long hole drilling arrangement at a low investment. This is a simple; one man operated rig, patterned to produce blast holes around 360 degrees. Hole patterns may be drilled vertically or inclined as required.

The complete Simba Junior includes MDS120F Drifter, complete Remote Control system, MDS10 Drill Steel Support, MDS46 Feed Beam and feed motor.

MDS120F Drifter

A Popular all-round machine, the MDS120F has earned a reputation of economy and reliability.

The powerful MDS120F has a moderate weight and this facilities manual handling of the unit which can be mounted on simple and light rigging structures.

The MDS120F rock drills are assembled from components in a sectional system. The complete assembly can easily be dismantled for service and inspection of internal parts. All wear parts are easy to replace. Regular inspections will hold operating cost at a minimum.

The MDS120F is intended for operation with remote control. The rotation is reversible, a necessary feature for use with extension steel in long-hole drilling. The rotation mechanism can also be disengaged and the impact action used to rattle a tight joint of a jammed bit.



Cradle of MDS120F



MDS120F

Technical Specifications of Drifter

Detail	Metric	Imperial
Weight	70 Kg	152 lb
Length	780mm	31"
Working pressure, max.	6 bar	87 psi
Impact power, max.	7.2 kW	
Piston Dia	120mm	4.72"
Stroke Length	65mm	2.56"
Impact	2100 blows/min	
Adopter Type	R32, R38, T38	
Hole Diameter	48 - 89 mm	1 57/64" - 3 1/2"
Air Consumption	167 l/s	354 cfm
Rotation speed	0 - 180 rpm	

Features of Simba Junior Rock Drill

- Rotation possibility of 360 degree for easier drilling at your desired angle
- Capable of drilling up to length of 25 mtr with hole dia of 48 to 57 mm
- Just takes approx. 4 mins for drilling 1 mtr
- Heavy Duty Pneumatically operated Rod Catcher
- Feed Mechanism - Material Steel graded casting for long life & less wear and tear and less thread failing length: 1760 mm; equivalent to BMS-4 model to accommodate 1.2 meter of R 32 mm dia Drill rods.
- Guide Rail - Steel single piece 'F' type design with bolt & nuts
- Lateral movement (optional) by manual feed screw of 54 mm to travel the fee beam in either direction up to 550 mm from centre. For doing upward hole at 3 positions without shifting the complete machine.
- Mounting - Crad Hollow MS Pipe collapsible type mounting. Easy to assemble & disassemble in underground mines.
- Remote - Equipped with Remote Control

Long Hole Drill details

Fig. Ref. No.	Description
1	Skid Frame
2	Pneumatic Coulmn Jacks
3	Ring Frame
4	RSP-10 Pneumatic Rod Catcher
5	Feed Beam RMS-1200
6	Cradle for Drifter
7	Drifter-120
8	Fiber Piston Air Motor
9	Remote Control
10	Oil Lubricator
11	Operator Seat

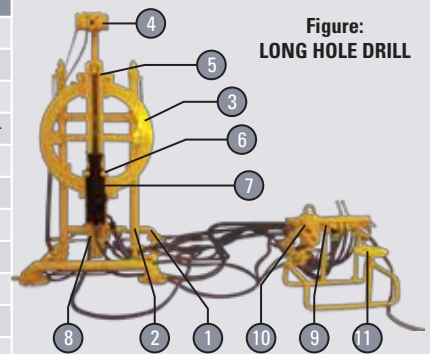


Figure:
LONG HOLE DRILL



Simba Junior Feed Beam MDS46

The MDS46 screw feeds are intended for long hole drilling with Pneumatic Drifter MDS120F in application where position handled manually. This is manufactured in still casting.



MDS46

MDS32



Pneumatic Drill Support MDS32

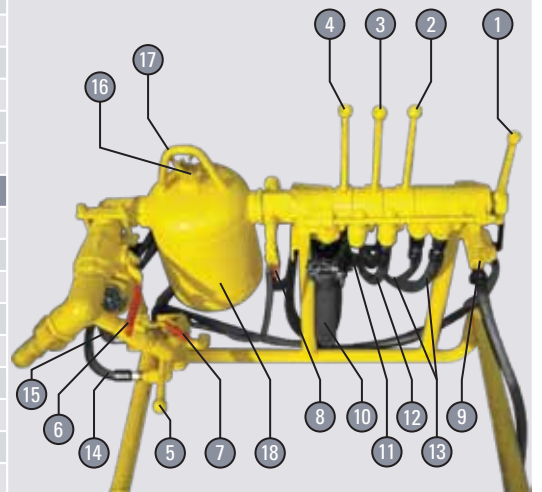
- The remote controlled drill steel support is an undisposable accessory to the MDS drifter & MDS screw.
- The steel support grips & holds the drill steel coupling when the drill. String is extended or retracted.
- One operator assisted by the steel support can achieve higher performances than two drilling handling the drill steel changes manually.
- The MDS32 pneumatic drill steel support is clamped to MDS feed beam & operated from the same remote control as the rock drill.
- Two clamps pushed together by pneumatic cylinder provide affirm grip on the drill steel coupling.
- The position of the MDS32 can easily be adjusted to suit upward or downward drilling.
- The MDS120F Drifter, Screw Feed and Pneumatic Drill steel support are operated from a compact control set which can be located within easy reach for driller.
- An important feature as the driller must manipulate the controls and handle extension rods simultaneous.

Remote Control details

Fig. Ref. No.	Description	Position
1	Air Motor Lever	MOTOR UP - OFF - MOTOR DOWN
2	Drifter Rotation	FORWARD - OFF - REVERSE
3	MSP10, Support Half	OPEN - OFF - CLOSE
4	Drifter Main Air	OFF - ON
5	Column Jack Operating Lever	UP - OFF - DOWN
6	Main Air Inlet	OFF - ON
7	Air Flushing Valve	OFF - ON
8	Air Pressure Meter	OFF - ON
9	Water Flushing Valve	OFF - ON

Fig. Ref. No.	Description	Quantity
10	38mm Hose pipe for Drifter Air Inlet	1 No.
11	10mm Hose pipe for RSP-10 connector	2 Nos.
12	12mm Hose pipe for Drifter Rotation	2 Nos.
13	20mm Hose pipe for Air motor Rotation	2 Nos.
14	12mm Hose pipe for Column jack Bottom connector	1 Set
15	10mm Hose pipe for Column jack Top connector	1 Set
16	Oil Adjusting Screw of lubricator	1 No.
17	Oil Filling Cap	1 No.
18	Water Drainage Cap	1 No.

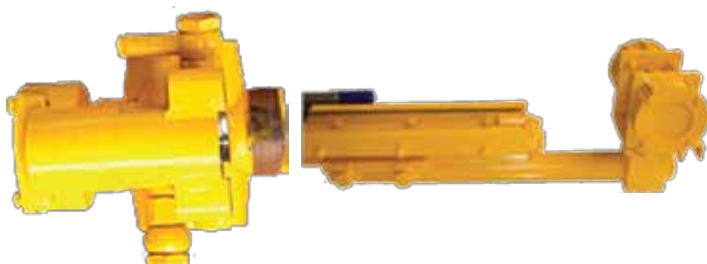
Figure: REMOTE CONTROL



Technical Specifications

Model	Simba Junior	
	Metric	Imperial
Diameter of hole	48-57 mm	1.88" - 2.24"
Hole Depth	25 Mtr Max	82 ft
Hole direction same hole	Vertically upward & capable of doing same hole in 360° direction by help of graduated ring frame	
Comptibale drifter	MDS120F	
Air connection for drifter	38 mm	1.49"
Air connection for reverse / forward	12 mm	0.47"
Air connection for water flushing	20 mm	1/4"
Air connection for rod catcher	10 mm	0.39"
Air consumption	400 cfm	189 l/s
Air pressure	7 kg/cm ²	99.4 psi
Net weight		
Standard	1200 kg	2646 lb
Lateral	1500 kg	3307 lb
Dimensions	1780 X 1550 X 2600 (LXWXH) mm	70" X 61" X 102"
Column bar height		
Closed	2200 mm	87"
Open	3700 mm	146"
Ring Size	1500 mm	59"

Spare Parts of Simba Junior Drilling Rig



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