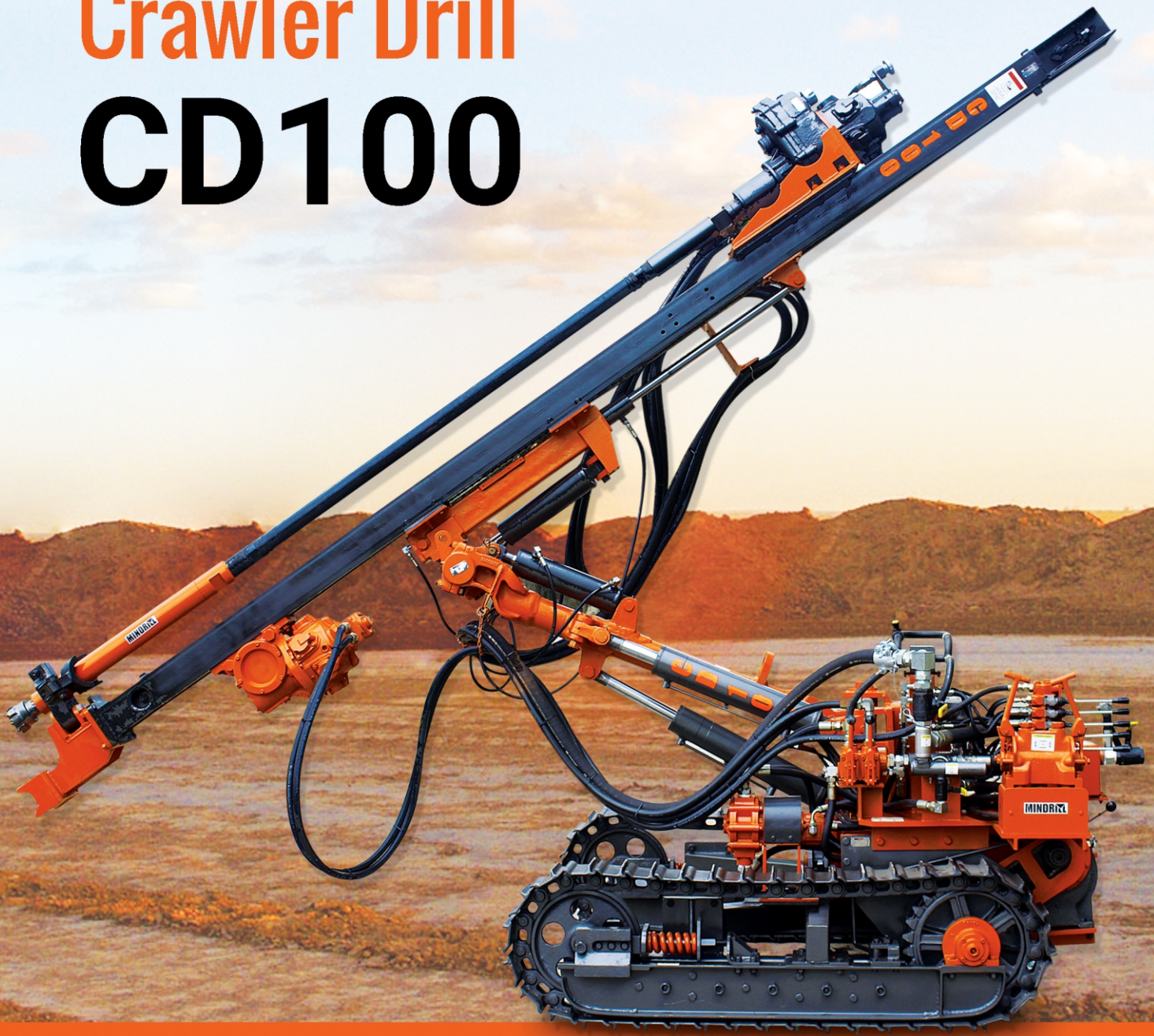


Crawler Drill CD100



Reliability Unparalleled, Power Unmatched



About us

Since 1971, Mindrill has been serving customers worldwide. For about 50 years, we have been producing high-quality mining & construction equipment at a competitive price, continuously raising industry standards. With a team of over 200 experienced people, Mindrill offers a single-window solution for all kinds of mining & construction tools, spare parts, and accessories starting from product development to delivery of finished goods. We are one of the leading mining equipment manufacturers in the country today, especially known for our contract manufacturing competency. As a rock drill manufacturer, we manufacture a wide range of mining & construction equipment including jackhammers like sinker drill, jackleg drill, stoper drill, along with pavement breakers, DTH hammers, hydraulic drifters, crawler drill, wagon drill, and after-market spare parts and accessories including lubricators and drill bits.

Over the years, Mindrill has been investing and creating diversified manufacturing capabilities supported by highly sophisticated technology. Our more than 47 years of manufacturing experience comes with a state-of-the-art production plant of over 100,000 sq. ft. located in Howrah, India with the latest equipment including VMC milling, HMC milling, CNC turning, Gun Drilling, Multi-Station Broaching, Multi-Spindle Milling, CNC Grinding, Laser Marking, Shot Blasting, with Atmospheric Controlled Sealed Quench Heat Treatment Furnace. Mindrill has enhanced its versatility of manufacturing facility in machining by an in-house toolroom complimented by a series of 5-axis VMCs for critical machining with minimum setups. This facility, combined with a stringent in-line & final quality control system, allows us to maintain the quality of our products from start to finish and enables us to provide products at attractive prices. Our manufacturing capacity is ever expanding and we are always looking for contract manufacturing opportunities to create long-term relations.

Mindrill is a trusted OEM supplier worldwide and has strong distribution arrangements in more than 25 countries. Apart from international arrangements, we also cater to the domestic market with more than 50 distributors across the Indian subcontinent.

Pneumatic Drill Rig

CD100 Crawler Drill

The CD100 crawler drill is a self-propelled pneumatic crawler drill which can be used for both DTH and drifter drilling. It maintains a simple and lightweight design which easy to operate and maintain.

Driven by a 5 HP piston air motor, CD100 has a rotary head which can revolve at torques of up to 1125 N-m and 60 rpm.

For DTH drilling, it has a 5 HP piston air motor driven rotary head of 60 rpm and is able to drill 102 mm - 114 mm (4" - 4.5") holes up to depths of 36 metres.

The crawler drill can also drill 48 mm - 64 mm (1.875" - 2.5") holes for drifter drilling.

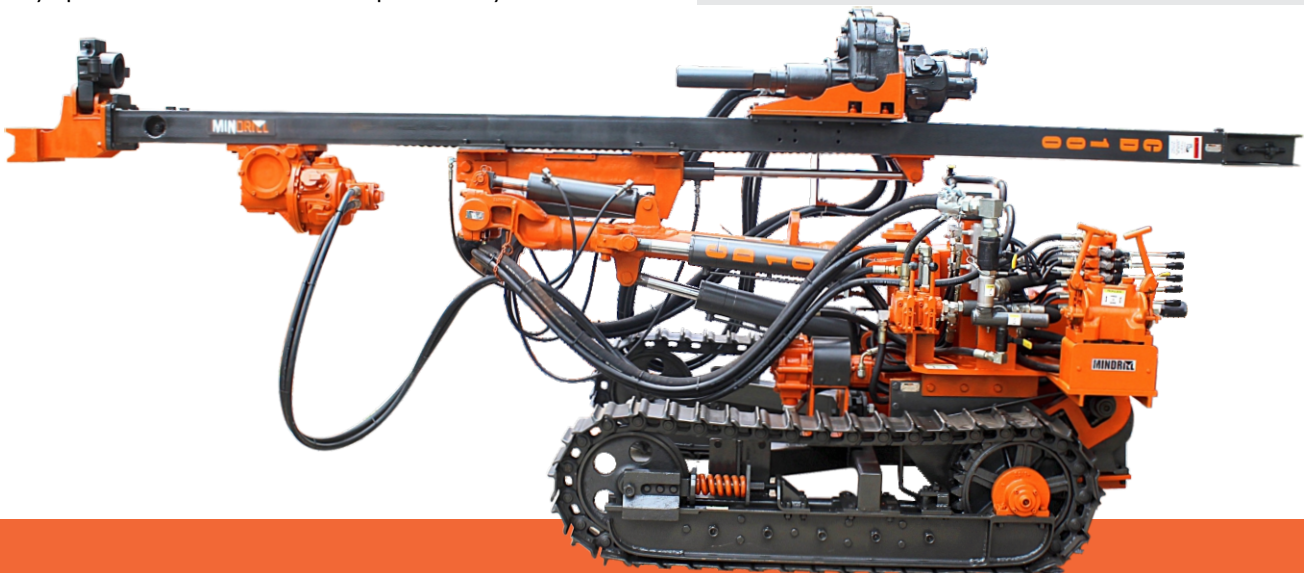
The crawler has boom swing, boom lift, guide swing, guide extension, and guide dump arrangements which make it versatile and allows it to cover a wide range of vertical, horizontal, and angle drilling positions. It has a powerful chain feed system driven by air motor and gearbox which can exert forces of up to 2200 kgf on either side.

It is used for quick and easy retrieval of drill string. Propulsion of the crawler is done by the help of two independent track assemblies on each side of the drill. Each track consists of a chain mechanism driven by piston type air motors and gear box and is equipped with parking brake and declutching facility.

Hydraulic cylinders provide suspension to the crawler to maintain contact with the ground. This robust track mechanism can propel the CD100 crawler along with the air compressor over rough terrain to the job site at speeds of up to 3.2 km/hr. Centralized controls for all drill operations are mounted on the track assembly for easy operator access and maximum productivity.

Key Features:

- Capable of both DTH and drifting
- Powerful rotary head with torque of 1125 N-m and 60 rpm driven by 5 HP piston air motor
- Two independent, air motor powered track assemblies on either side for reliable crawler self-propulsion
- Powerful feed system with strong and heavy feed chain which can exert loads of up to 2200 kgf on either side
- Wide coverage of vertical, horizontal and angle drilling positions through boom and guide setup
- Centralized control placed on track assembly for quick and easy access
- Heavy duty tow hitch for attaching and towing air compressor
- Rugged construction and advanced design ensure power and reliability over long term
- Simple and lightweight design



SPECIFICATIONS

Carrier		
	Metric	Imperial
Tramming speed	3.2 km/h	2 mph
Traction force	17 kN	3821 lbf
Track oscilation	± 20 deg.	
Ground clearance	229 mm	9"
Hill climbing ability	30 deg. max. (without compressor)	
Pneumatic - driven chain feed		
	Metric	Imperial
Feed extension	750 mm	29.4"
Max. feed rate	0.3 m/s	59 ft/min
Max. feed force	21 kN	4720 lbf
Feed force	2200 kgf	
Max. tractive pull	15 kN	3372 lbf
Total length	5130 mm	202"
Travel length	3565 mm	140.4"
	Metric	Imperial
Hydraulic oil tank volume	22 l	2.8 US gal.
Traction gear volumer	2 l	0.53 US gal.
Lubrication tank volume	7.6 l	2 US gal.
Pipe size	76 mm	3"

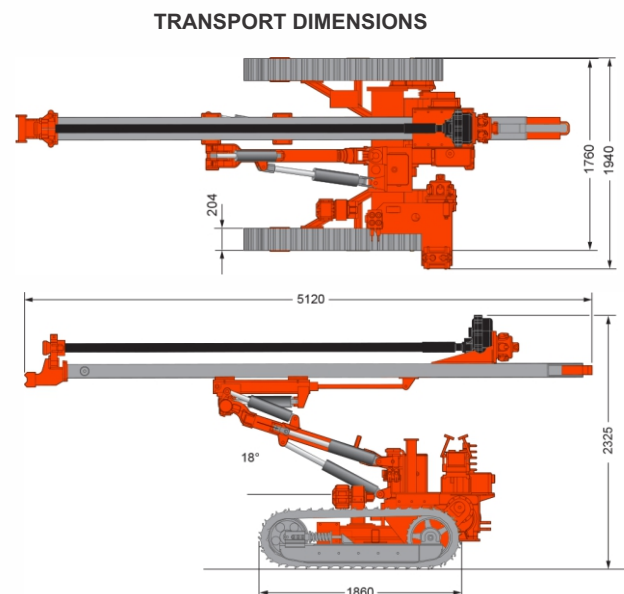
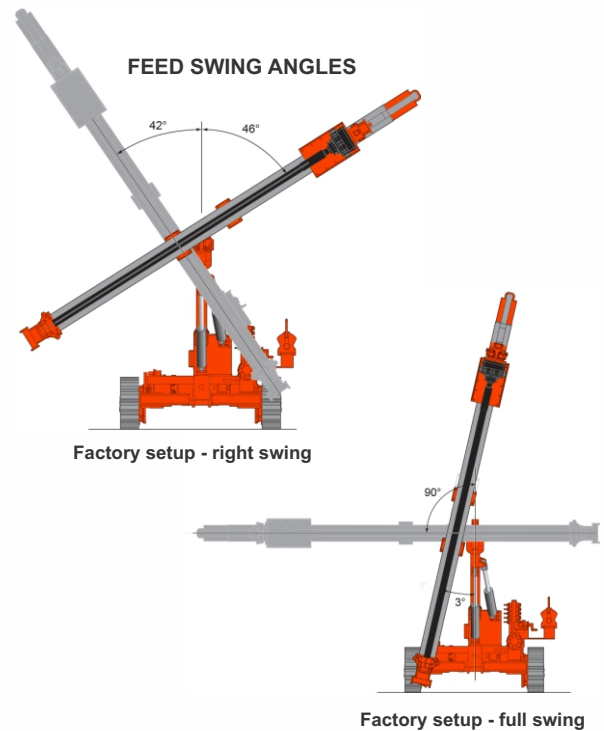
WEIGHT

	Metric	Imperial
	2500 kg	5512 lb

TRANSPORT DIMENSIONS

Tramming Position		
Boom swing (L/R)		45/45 deg.
Boom lift (Up/Down)	45/30 deg.	
Guide swing (L/R)		45/45 deg.
Guide dump	75 deg.	
Height and length		
	Metric	Imperial
Overall length	4700 mm	185"
Width	1750 mm	69"
Height (Guide horizontal)	2600 mm	102"
Ground clearance	229 mm	9"
Propulsion air motor		9 HP each
Depth of drilling (DTH)		36000 mm

Pneumatic Drill Rig CD100 Crawler Drill



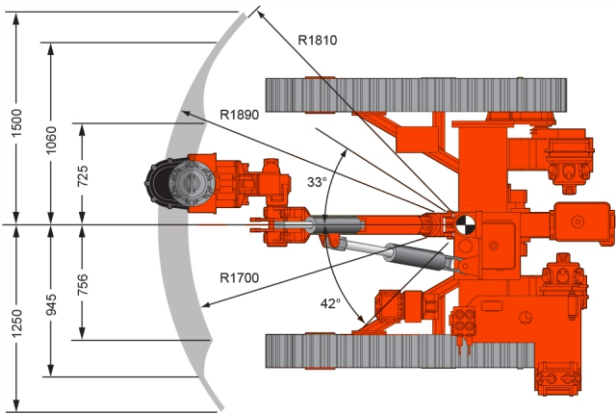
HOLE RANGE

	Metric	Imperial
Hole range (DTH)	102 - 115 mm	4"-4.5"
Hole range (Drifter)	48-64 mm	1.875"-2.5"

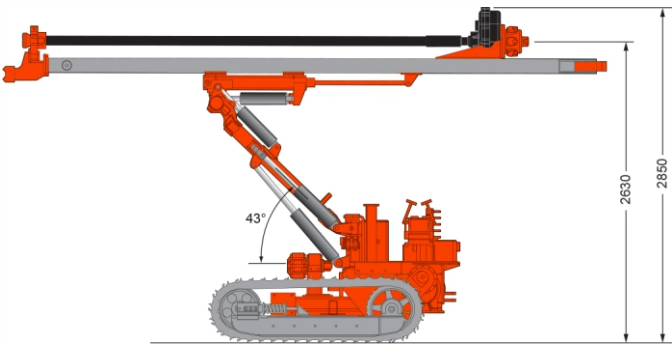
Pneumatic Drill Rig

CD100 Crawler Drill

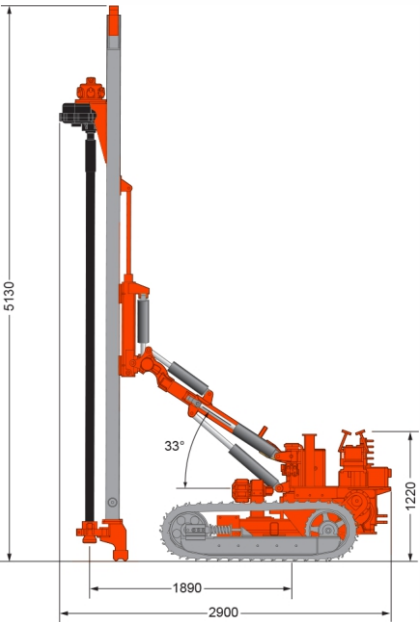
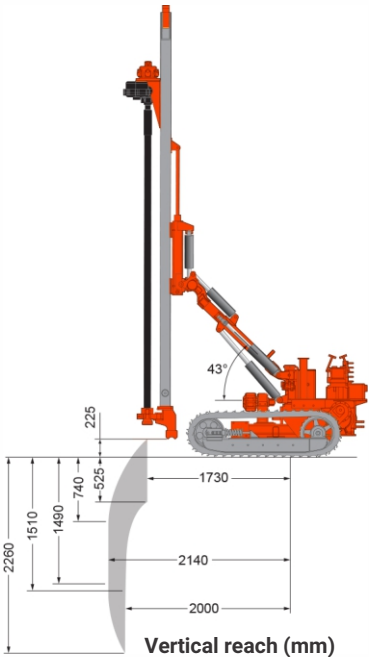
DRILL COVERAGE AREAS



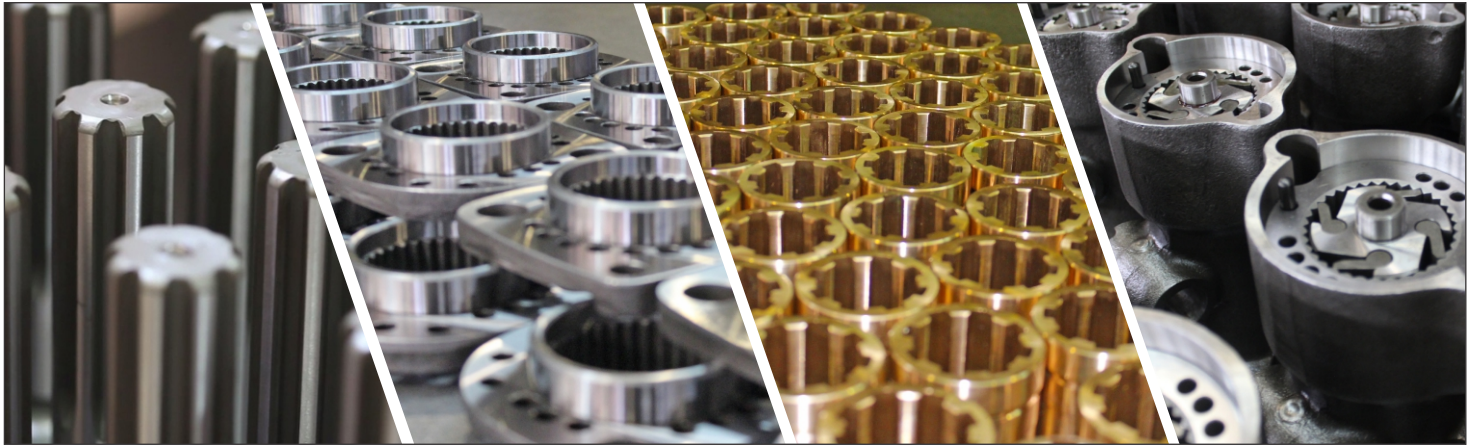
Horizontal reach (mm)



Maximum horizontal reach (mm)



Feed vertical on ground



Mindrill Product List

Jack Hammer

MH505L
MH505FR
MH501L
MH502A
MH502AFR
MHD12D

Drifter

MD120F
MD36IR
MD90TD
MEX1

Underground Rock Drill

MH504W
MJ16W
MS250
MJ250
MJ94W
MMK62S

Pavement Breakers & Pick Hammers

MB117
MB1210
MB1230
MP09P

DTH Hammers & Bits

MD4
DTH Button Bit
Drill Tube

Rock drilling Tools & Accessories

Shank Adapter
Coupling Sleeve
Top Hammer Bit
Taper Bit
Split Set
Lubricator
Hose Clamps
Claw Coupling

Crawler drill & Drill Rigs

LD4 Slim Drill

Aftermarket Support

Rock Drill Parts
Drifter Parts

NOTES



Relibility Unparalleled Power Unmatched

BUILT IN INDIA

MANUFACTURING SYSTEMS CERTIFIED BY TUV NORD ISO 9001:2015

MINDRILL SYSTEMS & SOLUTIONS PVT. LTD. is constantly striving to improve it's products and therefore reserves the right to modify materials, specifications and designs without prior notice. Technical data described here corresponds with the available information at the time of issue of design.

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