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Roctool

Furnace Tapping Tools

Catalogue



Tap hole Drilling System

Product availability of bits

Accessories for Furnace Tapping

Manufacturing facility – Bits

Product availability of drill rods

Manufacturing facility – Rods

Roctool has been providing superior and cost effective solutions in Tap Hole Drilling for new generation Blast furnaces and Corex furnaces for the last 14 years. The team of engineers at Roctool is quality conscious and time conscious. Being a key requirement in steel making process, the tapping tools are made with suitable raw material using latest manufacturing techniques to maintain consistency and reliability. The production process is closely monitored and quality is controlled at every stage of the manufacturing process. Lean manufacturing methods are adopted to keep lead times low and deliveries reliable.

Established in 2000 at Hyderabad, India, the current annual production capacity is 250,000 tapping tools. Roctool has an in-house Seamless Tube mill for the manufacture of drill rods and a CNC facility for producing Tap hole drill bits & accessories.

Roctool caters to international market across different countries including USA, France, South Africa etc. We have a majority market share in India and our prime customers include Tata steel, Jindal Steels, Steel Authority of India, Vizag Steel, JSPL, Essar Steel, Monnet, Gerdau and Bhushan steels.



Tap hole Drilling System

The range of our Drilling System includes:

Drill Rods with rope threads and wedge connections Shank adaptors Extension adaptors Couplers Various drill bits including 3-Lip, Cross type, Offset turbo type, button type, chisel and core bits Tap hole face cutters & Trimmers Nozzle seat cutters Poking Bars



type joints.

Drill Chuck



Drill Chucks are made of case hardened alloy steel which has high fatigue and impact resistance. They are customized to suit the different types drilling equipment.

The drill rods are thick walled hot rolled seamless tubes produced in standard carbon alloy grades. They possess high torsional strength and resistance to bending to take the percussive and rotary loads during drilling.



Drill Bits

The drill bit is designed to efficiently drill with improved performance and extended life hence reducing the drilling costs.

Cross bits











All the above bits are available for welded and threaded connections





Diameters		Three lip		Cross		Offset	Button	Chicol	Core
MM	Inch	TC	ST	TC	ST	Turbo	Bit	Chisei	Core
35	1 3⁄8"	K	<	>	>	>	~	~	
40		~	~	>	~	>	~	~	
45	1 ³ ⁄4"	~	~	>	~	>	~	~	
50	2"	~	~		~	>	~		
52	2"	>	<	>	~	>	~		
55	2 1⁄8"	<		>		>	~		
57	2 1⁄4"	K		>		>	✓		
60				>		>	~		
63	2 1⁄2"			>		>	✓		
65	2 1⁄2"			>		>	✓		
67				>		>	✓		
70	2 3⁄4"			✓		>	✓		
80				►		>	✓		
90	3 1⁄2"			>		~	✓		V
100	4"			✓		~	✓		V
120							✓		v

The above bits are available in Standard Rope threads and T-Threads as per customer requirement.

Cutters and Trimmers

The cutters and Trimmers are designed with suitable shape and grades of carbides for removal of deposits from tap hole face. Specialized cutters are used for nozzle seat boring. The cutters and trimmers are available in various sizes ranging from 150 mm to 280 mm.



Other accessories for furnace tapping

The drill chucks, adaptors and couplers are manufactured with suitable grades of materials such as EN8, EN36 and EN24 to suit the standard equipment like Paulworth, TMT, DMV...etc







Tap hole bit - Manufacturing

























Drill rods and poking bars

SAE 1045 steel grade material is used for drill rods and are heat treated as per the specifications.

Poking bars are solid steel rods made out of Low carbon steel. The poking end of the bar is a spear headed or a sharp point as per customer requirement.



Drill rods Availability							
Diameter	Standard Wall Thickness						
32 mm	10mm						
38 mm	12 mm						
45 mm	15 mm						
51 mm	16 mm						

The standard tolerance on outer diameter and wall thickness is +/- 0.5 mm. The maximum length available is 7.5 meters.

For special applications the drill rods are also manufactured as per customer requirement in non standard dimensions.

