

UNDERGROUND DRILLING EQUIPMENT AND TOOLS

www.bddrill.com.au / www.bddrillgf.com.au



ABOUT US

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1000

EMPLOYEES



300,000

M² OF

FACTORY



ANNUAL PRODUCTION

DTH hammer: over 20,000 units

Maximum size for hammer: 609mm(24")

Drill bit: 250,000 pcs

Maximum size for drill bit: 1000mm(39-1/3")

30 days for production on any quantity



Black Diamond Drilling Services Australia Pty Ltd known as "BD DRILL" is a privately owned Australian Company which services the Mineral exploration, Mining, Water well and Geotechnical sectors of the drilling industry.

BD DRILL is a subsidiary of Changsha Heijingang Industrial Ltd. Co., the head office is located in Perth, Western Australia and supports regions in Australia and the overseas market.

BD DRILL has established a reputation for outstanding commitment to product quality, innovation and most importantly customer service.

Our extensive product range covers DTH equipment (conventional, reverse circulation, bits, strings and rigs), Top hammer and a comprehensive selection of various drilling products (diamond bit, drag bit, tricone bits, drilling grease and other consumables.)

USE OF LOCAL (AUSTRALIAN) CONTENT

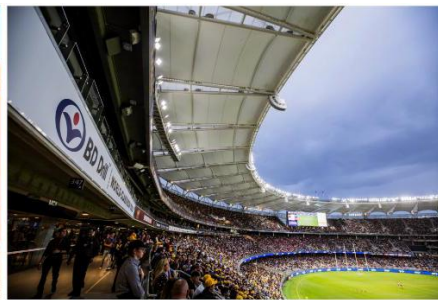
Black Diamond Drilling Australia is a Western Australian fully owned and operated company. Our manufacturing facilities are based in Australia and China with a comprehensive Quality Control system in place. The R & D for Black Diamond Australia is completed right here by our highly experienced staff of which 80% are local Australians.

We utilise the service of a Local Queensland Indigenous company to be our distributor through the East Coast of Australia. Please see attached policies for local engagement, Quality, Indigenous Engagement, Australian Participation.

We use many local suppliers for training, logistics, I.T. etc.

Local Engagement

- Sponsorship and Advertising at Optus Stadium with the West Coast Eagles.
- Major Sponsor for the Annual Kalgoorlie Desert Race.
- Donations to several Cancer and Children's Charities.



Member of

- ADIA Australian Drilling Industrial Association



- The Australian Drilling Industry Association (ADIA) is the peak body representing the drilling industry nationally. It's membership is made up of individuals and companies committed to improving the skills, safety and overall professionalism of the drilling industry. It is the voice of its members, providing collective representation on matters that affect them and their businesses.

- AMEC Association of Mining and Exploration Companies



- AMEC is an industrial association representing over 375 member companies from all around Australia. Their members are explorers, emerging miners, producers and a wide range of businesses and service providers working in and for the mining industry. AMEC is a leading voice of Australia's mineral exploration and mining industry.

Perth, Australia



Sudbury, Canada



Kalgoorlie, Australia



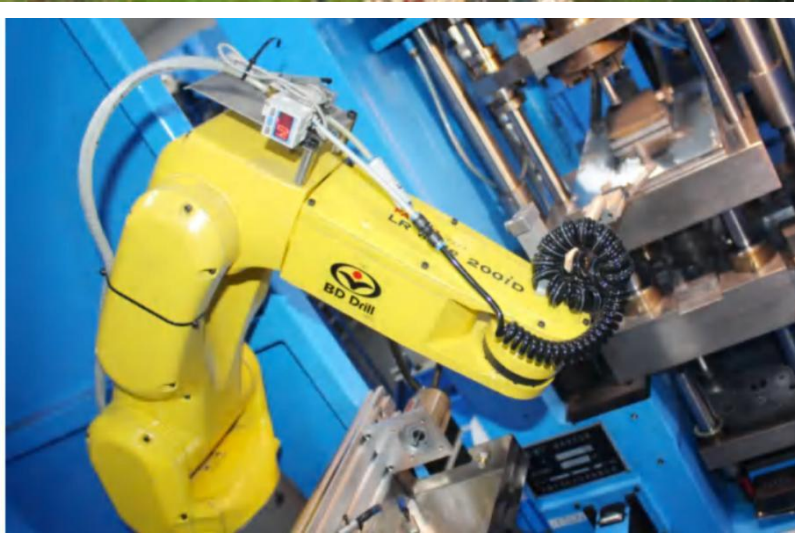
CHINESE FACTORY

Founded on April 30 1999, Changsha Heijiangang Industrial Co. Ltd(HJG) is a famous privately operated enterprise specialised in researching and manufacturing rock drilling equipment and pneumatic tools. The company has rich scientific research and production experience. It produces high quality rock drilling products by using high quality raw material, utilising advanced manufacturing technology and imposing strict quality inspection. The products made by HJG are being sold well all over China and exported to more than 50 countries such as America, France, Australia, Canada, Brazil, South Africa, Malaysia, South Korea and so on. It has gained high praise and a good reputation all over the world.

Changsha Heijiangang Industrial is located in Lei Feng, Wangcheng, Hunan, with a land area of 300,000 m² and workshop space of 220,000m². Currently we have more than 1000 employees and we are equipped with a wide range of advanced equipment required for manufacturing rock drilling machines and pneumatic tools. We have designed and manufactured the following products: the most advanced high air pressure DTH hammer in China, various kinds of threaded drill bits, reverse circulation hammers and bits, shank adapters and coupling sleeves, new style wells geothermal drilling rig, open air blasthole drilling rig, all kinds of tool joints and drill pipes as well a spare parts for drill rigs.

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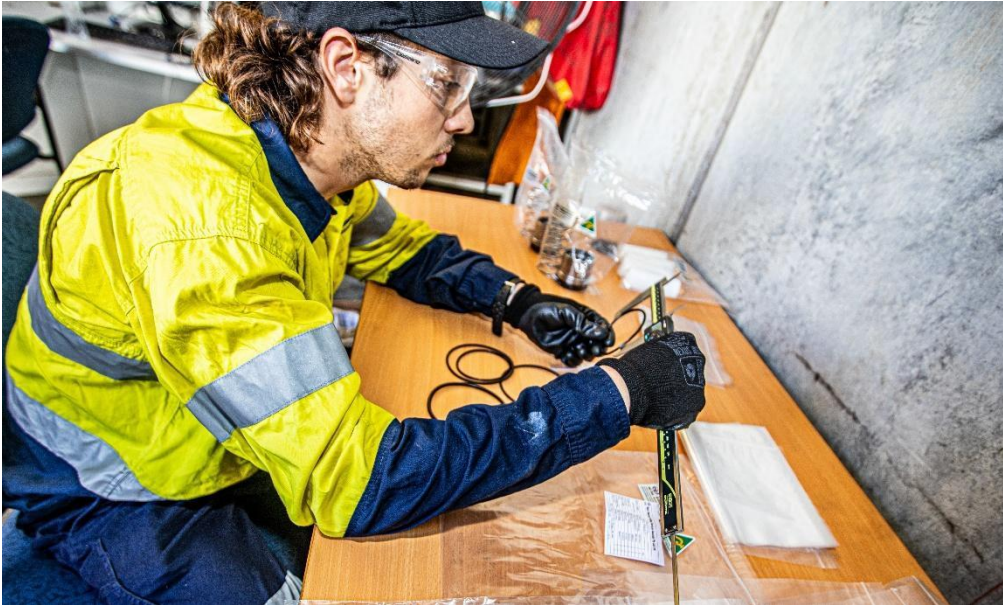


AUSTRALIAN MADE PRODUCTS

The Australian Made certification is a distinctive and highly regarded symbol that signifies a product's origin in Australia. This certification assures consumers that the marked item has undergone stringent checks to ensure it meets the country's high-quality and safety standards. This iconic green and gold kangaroo logo not only serves as a point of pride for Australian manufacturers but also assists consumers in making informed choices, supporting the local economy, and fostering a sense of trust in the products they purchase.

Black Diamond is licensed by Australian Made Campaign Limited to use the Australian made logo.

Currently we have 10% of our SKU produced locally, we are aiming to raise this figure to 30% in 5 years.



Currently we have 10% of our SKU produced or purchased locally, and our goal is to raise this figure to 30% within 5 years.



Some of our locally made products include:

Rig Baskets



Lifting Bails



Check Valves



Deck Bushes



Hammer Trailer



Seals and Springs



RECOMMENDED SAFETY PROCEDURES

The mining industry continues to demand even higher levels of safety and productivity. In order to meet these requirements, we work continuously to develop even safer products and to produce comprehensive manuals enabling safer and effective use of our products.



IT'S ALL ABOUT EVERYONE'S HEALTH

Helping you to ensure a safer workplace and healthier workforce is of the utmost importance to us. The well-being of any person coming into contact with our equipment is paramount. Therefore, we strive to identify and assess potential risk factors that could threaten the health of you and your employees.

All the products in our catalogue are designed to meet safety requirements.

DRESS RIGHT FROM HEAD TO TOE

You must always wear appropriate personal protective equipment (PPE). This is what we strongly recommend, to help avoid injury:

- Safety helmet
- Hearing protection
- Safety glasses
- Protective high visibility clothing
- Respiratory protection
- Safety boots
- Any site-specific PPE as required.

BE AWARE OF ALL SAFETY PROCEDURES

We ask that you start by obeying all instructions given. Never work under an unsupported roof or close to potential pinch point locations. Beware of the potential hazards of a loose roof and ribs and scale down roof ribs prior to bolting. It is important to bolt early in the mining process – as soon as safely and practically possible.

Safe work procedures should incorporate inspection before the machine operates and also through regular monitoring based upon mining conditions, safety and management systems. Workers should be provided with safety information, instruction and training on transportation, installation, operational care and disposal of drilling tools.

MAKE A RISK ANALYSIS BEFORE YOU START

Pay attention to safety when planning all of your work. Before you start, always take your time to go through all operations. Identify any potential risks and take appropriate measures to avoid them. If necessary, seek expert advice on how to help minimize risks. Finally, make sure that you have the right resources to perform all tasks in the safest manner possible.

Please check www.safeworkaustralia.gov.au or www.canada.ca/en/services/jobs/workplace/health-safety.html for more information.

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Top Hammer Air Leg and Small Hole Drilling Tools

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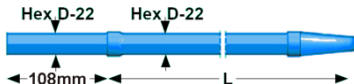
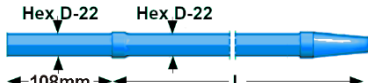
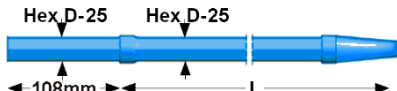
Air Leg and Small Hole Drilling Tools

Black Diamond Drilling manufactures and supplies world class drill bits tapered and threaded rods and drill steels for Air-Leg and small hole drilling. Using the latest manufacturing equipment and techniques ensures that our products are high strength and wear resistant. The result is an efficient and cost-effective drilling solution.

H22 12° Taper Drilling Tools

Drill Bit	Buttons, mm		Flushing Hole, mm		Angle	Dimensions, D		Part Number	Compatibility
	Front No, Size	Gauge No, Size	Front No, Size	Gauge No, Size		Imperial	Metric		
Cross type bit 	-	-	1x6	2x4.5	-	1 1/4"	32mm	THU-HH-TCB32-H22/12	7770-9032-42 90503024 90512643
	-	-	1x6.35	2x4.5	-	1 3/8"	45mm	THU-HH-TCB45-H22/12	7770-9045-42 90503069

Button bit  	1x7	4x7	1x5	1x5	35°	1 1/8"	28mm	THU-HH-TBB28FF-H22/12	7795-6428-B48 90510695 90516429
	1x7	4x7	1x5	1x5	35°	1 3/16"	30mm	THU-HH-TBB30FF-H22/12	7795-6430-B48 90510181
	2x7	5x7	2x4	1x4	40°	1 1/4"	32mm	THU-HH-TBB32FF-H22/12	7795-5232-B48 90509650 90509841
	2x7	5x8	2x4	1x4	40°	1 3/8"	35mm	THU-HH-TBB35FF-H22/12	7795-5235-B48 90509535
	2x7	5x9	2x5	1x5	40°	1 1/2"	38mm	THU-HH-TBB38FF-H22/12	7795-5238-B48 90512658

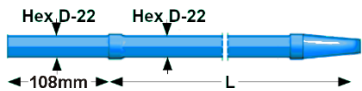
Drill Rod	Dimensions				Part Number	Compatibility	
	Length		Diameter				
	Imperial	Metric	Imperial	Metric			
Tapered rod, shank 22 x 108, Carburized		2'	610mm	7/8"	22mm	THU-HHTR-H22/610	7870-6106-11 90504832
		3'	910mm	7/8"	22mm	THU-HHTR-H22/910	7870-6112-11 90505433
		4'	1220mm	7/8"	22mm	THU-HHTR-H22/1220	7870-6118-11 90505434
		5'	1600mm	7/8"	22mm	THU-HHTR-H22/1600	
		6'	1830mm	7/8"	22mm	THU-HHTR-H22/1830	7870-6124-11 90505436
		8'	2440mm	7/8"	22mm	THU-HHTR-H22/2440	7870-6131-11 90505437
		10'	3050mm	7/8"	22mm	THU-HHTR-H22/3050	7870-6137-11 90505438
Tapered rod, shank 22 x 108, Hardened		8'	2440mm	7/8"	22mm	THU-H22-2440H	7870-1124-11 90504841
		10'6"	3200mm	7/8"	22mm	THU-H22-3200H	7870-1132-11 90504844
		13' 1 1/2"	4000mm	7/8"	22mm	THU-H22-4000H	7870-1140-11 90504846
		14'5"	4400mm	7/8"	22mm	THU-H22-4400H	7870-1144-11
		15'9"	4800mm	7/8"	22mm	THU-H22-4800H	7870-1148-11 90504847
		18' 4 1/2"	5600mm	7/8"	22mm	THU-H22-5600H	7870-1156-11 90504848
		21'	6400mm	7/8"	22mm	THU-H22-6400H	7870-1164-11 90504849
		23' 7 1/2"	7200mm	7/8"	22mm	THU-H22-6400H	7870-1172-11 90504850
		26' 3"	8000mm	7/8"	22mm	THU-H22-8000H	7870-1180-11 90504851
		28' 10 1/2"	8800mm	7/8"	22mm	THU-H22-8800H	7870-1188-11
Tapered rod, shank 25 x 108, Carburized		14'	4300mm	1"	25mm	THU-H25-4300C	7870-7143-30

H22 11° Taper Drilling Tools

Drill Bit	Buttons, mm		Flushing Hole, mm		Angle	Dimensions, D		Part Number	Compatibility
	Front No, Size	Gauge No, Size	Front No, Size	Gauge No, Size		Imperial	Metric		
Button bit 	1x5	1x5	2x7	5x7	40°	1 1/4"	32mm	THU-N32-11-H22	7776-4432-B48 90512816
	1x5	1x5	2x7	5x8	40°	1 3/8"	35mm	THU-N35-11-H22	7776-4435-B48 90512818
	1x5	1x5	2x7	5x8	35°	1 7/16"	36mm	THU-N36-11-H22	7776-4436-B48 90509968
	1x5	1x6	2x7	5x8	35°	1 1/2"	38mm	THU-N38-11-H22	7776-4438-B48 90509966
	1x5	1x6	2x8	5x9	35°	1 37/64"	40mm	THU-N40-11-H22	7776-4440-B48 90509962

Drill Rod

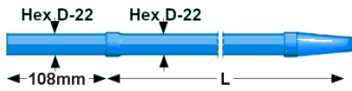
11° Tapered rod, shank 22 x 108, Carburized



Dimensions						
Length		Diameter		Part Number	Compatibility	
Imperial	Metric	Imperial	Metric			
2'	610mm	7/8"	22mm	THU-H22/11-610C	7876-6106-11	
2' 7 1/2"	800mm	7/8"	22mm	THU-H22/11-800C	7876-6108-11 90504864	
4'	1220mm	7/8"	22mm	THU-H22/11-1220C	7876-6112-11 90504865	
5'3"	1600mm	7/8"	22mm	THU-H22/11-1600C	7876-6116-11 90500144	
6'	1830mm	7/8"	22mm	THU-H22/11-1830C	7876-6118-11 90504868	
6'7"	2000mm	7/8"	22mm	THU-H22/11-2000C	7876-6120-11 90504869	
8'	2440mm	7/8"	22mm	THU-H22/11-2440C	7876-6124-11 90505441	
10'	3050mm	7/8"	22mm	THU-H22/11-3050C	7876-6131-11	
11' 9 1/2"	3600mm	7/8"	22mm	THU-H22/11-3600C	7876-6136-11 90510203	

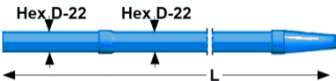
H22 7° Taper Drilling Tools

Drill Bit	Buttons, mm		Flushing Hole, mm		Angle	Dimensions, D		Part Number	Compatibility
	Front No, Size	Gauge No, Size	Front No, Size	Gauge No, Size		Imperial	Metric		
Button bit 	2x5	1x5	2x7	5x7	40°	1 1/4"	32mm	THU-N32-7-H22	7788-5232-B48 90512799
	2x4	1x4	2x7	5x7	40°	1 9/64"	33mm	THU-N33-7-H22	7788-5233-B48 90515546
	2x4	1x4	2x7	5x8	40°	1 3/8"	35mm	THU-N35-7-H22	7788-5235-B48 90512922
	2x4	1x4	2x7	5x8	35°	1 1/2"	38mm	THU-N38-7-H22	7788-5238-B48 90515584

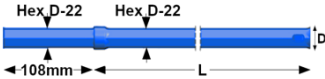
Drill Rod	Dimensions					
	Length		Diameter		Part Number	Compatibility
	Imperial	Metric	Imperial	Metric		
7° Tapered rod, shank 22 x 108, Carburized						
	8'	2400mm	7/8"	22mm	THU-H22/7-2400C	7888-6124-11 90515483
	10'6"	3200mm	7/8"	22mm	THU-H22/7-3200C	7888-6132-11 90516583

H22 6.5° Taper Reaming Tools

Reaming Bit	Buttons, mm		Dimensions, D		Part Number	Compatibility
	Front No, Size	Gauge No, Size	Imperial	Metric		
	2x10	8x11	2 7/16"	62mm	THU-HH-R62FF-H22/6.5	-
	2x11	8x11	3"	76mm	THU-HH-R76FF-H22/6.5	-

Reamer Rod	Dimensions				Part Number	Compatibility
	Length		Diameter			
	Imperial	Metric	Imperial	Metric		
6.5° Tapered rod, shank 22mm 	3'	610mm	7/8"	22mm	THU-HHRR-H22/6.5-610	-
	4'	1220mm	7/8"	22mm	THU-HHRR-H22/6.5-1220	-
	6'	1830mm	7/8"	22mm	THU-HHRR-H22/6.5-1830	-
	8'	2440mm	7/8"	22mm	THU-HHRR-H22/6.5-2440	-
	10'	3050mm	7/8"	22mm	THU-HHRR-H22/6.5-3050	-

H22 (7/8") Integral Drill Steels

Dimensions							
Shank 22x108mm (7/8" x 4 1/4")	Series	Length		Diameter		Part Number	Compatibility
		Imperial	Metric	Imperial	Metric		
		11	2'7"	800mm	1 11/32"	34mm	THU-H22-800/34
		5'3"	1600mm	1 19/64"	33mm	THU-H22-1600/33	714-1633-65 90503757
		7'10"	2400mm	1 1/4"	32mm	THU-H22-2400/32	714-2432-65 90503761
		10'6"	3200mm	1 7/32"	31mm	THU-H22-3200/31	714-3231 90503763
		13'1"	4000mm	1 3/16"	30mm	THU-H22-4000/30	714-4030 90503764
		15'9"	4800mm	1 9/64"	29mm	THU-H22-4800/29	714-4829 90503765
		18'4"	5600mm	1 7/64"	28mm	THU-H22-5600/28	714-5628-50 90503766
		21'	6400mm	1 1/16"	27mm	THU-H22-6400/27	714-6427-50 90503767
		23'8"	7200mm	1 1/32"	26mm	THU-H22-7200/26	714-7226-50 90504197
	12	2'7"	800mm	1 37/64"	40mm	THU-H22-800/40	714-0840-65 90503754
		5'3"	1600mm	1 17/32"	39mm	THU-H22-1600/39	714-1639-65 90503758
		7'10"	2400mm	1 1/2"	38mm	THU-H22-2400/38	714-2438-65 90503762
		10'6"	3200mm	1 29/64"	37mm	THU-H22-3200/37	714-3237-65 90503801
		13'1"	4000mm	1 27/64"	36mm	THU-H22-4000/36	714-4036-65 90503798
		15'9"	4800mm	1 3/8"	35mm	THU-H22-4800/35	714-4835-65 90503866
		18'4"	5600mm	1 11/32"	34mm	THU-H22-5600/34	714-5634-65 90503867
		21'	6400mm	1 19/64"	33mm	THU-H22-6400/33	714-6433-65 90503868
		23'8"	7200mm	1 1/4"	32mm	THU-H22-7200/32	714-7232-65 90504222
	13	1'4"	400mm	1 11/32"	34mm	THU-H22-400/34	714-0434-65 90503769
		2'7"	800mm	1 19/64"	33mm	THU-H22-800/33	714-0833-65 90504245
		3'11"	1200mm	1 1/4"	32mm	THU-H22-1200/32	714-1232-65 90503755
		6'7"	2000mm	1 3/16"	30mm	TH-H22-2000/30	714-2030 90503759
	14	2'	600mm	1 3/8"	35mm	THU-H22-600/35	714-0635-65 90503752
		3'11"	1200mm	1 11/32"	34mm	THU-H22-1200/34	714-1234-65 90503756
		5'11"	1800mm	1 19/64"	33mm	THU-H22-1800/33	714-1833-65 90503855
		7'10"	2400mm	1 1/4"	32mm	THU-H22-2400/32	714-2432-65 90503761
	15	2'	600mm	1 5/8"	41mm	THU-H22-600/41	714-0641-65 90504195
		3'11"	1200mm	1 37/64"	40mm	THU-H22-1200/40	714-1240-65 90503852
		5'11"	1800mm	1 17/32"	39mm	THU-H22-1800/39	714-1839-65 90503851
		7'10"	2400mm	1 1/2"	38mm	THU-H22-2400/38	714-2438-65 90503762
	16	6'7"	2000mm	1 19/64"	33mm	THU-H22-2000/33	714-2033-65 90503760
		26'3"	8000mm	1 1/32"	26mm	THU-H22-8000/26	714-8026-50 90504198
		28'11"	8800mm	1"	25mm	THU-H22-8800/25	714-8825-5005
		31'6"	9600mm	1"	25mm	THU-H22-9600/25	714-9625-5005 90504798
	17	5'3"	1600mm	1 7/64"	28mm	THU-H22-1600/28	714-1628-50 90504420
		7'10"	2400mm	1 1/16"	27mm	THU-H22-2400/27	714-2427-50 90503641

R23 Air Leg Drilling Tools

Drill Bit	Flushing Hole, mm		Buttons, mm		Angle	Dimensions, D		Part Number	Compatibility
	Front No, Size	Gauge No, Size	Front No, Size	Gauge No, Size		Imperial	Metric		
Button bit 	1x4	1x6	2x7	5x7	35°	1 5/16"	33mm	THU-N33-R23	7737-4433-R48
	1x6	1x6	2x7	5x8	40°	1 3/8"	35mm	THU-N35-R23	7737-5235-R48
	1x6	1x6	2x7	5x9	35°	1 1/2"	38mm	THU-N38-R23	7737-5238A-R48
	1x6	1x6	2x8	5x9	35°	1 5/8"	41mm	THU-N41-R23	7737-5241-R48

Button bit 	3x4.5	-	3x8	6x9	40°	1 3/4"	45mm	THU-N45-R23	7737-5345-R48
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Drill Rod

Shank adapter, Hex 22 - R23

Length		Diameter		Part Number	Compatibility
Imperial	Metric	Imperial	Metric		
10 3/4"	255mm	7/8"	22mm	THU-H22-R23-255/22	7807-6103-11
2'7"	800mm	7/8"	22mm	THU-H22-R32-800/22	7807-6108-11
5'3"	1600mm	7/8"	22mm	THU-H22-R23-1600/22	7807-6116-11
8'	2440mm	7/8"	22mm	THU-H22-R23-2440/22	7807-6124-11
10'	3200mm	7/8"	22mm	THU-H22-R23-3200/22	7807-6132-11
11' 9 5/8"	3600mm	7/8"	22mm	THU-H22-R23-3600/22	7807-6136-11

MF Rod, R23 – Hex22 – R23

6' 10 1/2"	2095mm	7/8"	22mm	THU-R23-H22-R23/2095	7857-4821-20
10'	3050mm	7/8"	22mm	THU-R23-H22-R23-3050	7857-4831-20

Shank adapter, Hex 25 – R23

10 3/64"	255mm	1"	25mm	THU-H25-R23-255/25	7807-7103-30
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R25 Air Leg Drilling Tools

Drill Bit	Flushing Hole, mm		Buttons, mm		Angle	Dimensions, D		Part Number	Compatibility
	Front No, Size	Gauge No, Size	Front No, Size	Gauge No, Size		Imperial	Metric		

Cross type bit



1x5	2x5	-	-	-	1 3/8"	35mm	THU-X35-R25	7732-1435-42 90514221
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Button bit



1x5	1x6	2x7	5x7	45°	1 5/16"	33mm	THU-N33-R25	7732-4433C-S48 90510448
1x4	1x6	2x7	5x9	30°	1 3/8"	35mm	THU-N35-R25	7732-4435-S48 90505181
1x5	1x6	2x7	5x9	30°	1 7/16"	37mm	THU-N37-R25	7732-4437C-S48 90513899
1x6	1x6	2x7	5x8	40°	1 3/8"	35mm	THU-N35-R25/B	7732-5235-R48 90509723
1x6	1x6	2x7	5x9	35°	1 1/2"	38mm	THU-N38-R25	7732-5238-R48 90505179
1x6	1x6	2x8	5x9	35°	1 5/8"	41mm	THU-N41-R25	7732-5241-S48 90505175

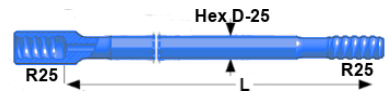
Button bit



1x5	1x6	2x7	5x7	45°	1 5/16"	33mm	THU-N33-R25	7732-5345F-R48 90510208
1x4	1x6	2x7	5x9	30°	1 3/8"	35mm	THU-N35-R25	7732-5348A-S48 90513912

Drill Rod	Dimensions						Part Number	Compatibility
	Length		Diameter					
	Imperial	Metric	Imperial	Metric				

MF-Rod, R25 – Hex 25 – R25



4'	1220mm	1"	25mm	THU-R25-1220/25	7852-3112-20
10'	3025mm	1"	25mm	THU-R25-3025/25	7852-313025-20
12'	3660mm	1"	25mm	THU-R25-3660/25	7852-3137-20

Shank Adapter, Hex25 – R25



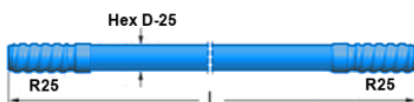
7'10"	2400mm	1"	25mm	THU-R25-2400/25	7802-7124-30 90500568
12'3"	3735mm	1"	25mm	THU-R25-3735/25	7802-71373-30

Shank adapter, Hex 22 – R25



10 3/64"	255mm	7/8"	22mm	THU-R25-255/22	7802-6103-11 90000237
2'7"	800mm	7/8"	22mm	THU-R25-800/22	7802-6108-11 90510004
3'3"	1000mm	7/8"	22mm	THU-R25-1000/22	7802-6110-11 90531258

Extension Rod, R25 – Hex 25 – R25



3"	915mm	1"	25mm	THU-R25-915/25-E	7852-2309-20
4'	1220mm	1"	25mm	THU-R25-1220/25-E	7852-2312-20
5'	1525mm	1"	25mm	THU-R25-1525/25-E	7852-2315-20
6'	1830mm	1"	25mm	THU-R25-1830/25-E	7852-2318-20
8'	2435mm	1"	25mm	THU-R25-2435/25-E	7852-2324-20
10'	3050mm	1"	25mm	THU-R25-3050/25-E	7852-2331-20

Coupling Sleeve, R25



6 1/4"	160mm	1 3/8"	35mm	THU-R25-160/35	7992-3335
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R28 Air Leg Drilling Tools

Drill Bit	Flushing Hole, mm		Buttons, mm		Angle	Dimensions, D		Part Number	Compatibility
	Front No, Size	Gauge No, Size	Front No, Size	Gauge No, Size		Imperial	Metric		

Button bit



1x5	1x6	2x7	5x9	30°	1 7/16"	37mm	THU-N37-R28	7739-5237-S48 90514167
1x6	1x6	2x7	5x9	35°	1 1/2"	38mm	THU-N38-R28	7739-5238-R48 90514282
1x6	1x6	2x7	5x9	35°	1 1/2"	38mm	THU-N38-R28/B	7739-5238-S48 90514705
1x6	1x6	2x7	5x9	35°	1 1/2"	38mm	THU-N38-R28/C	7739-5238-S70
1x6	1x6	2x7	5x9	35°	1 1/2"	38mm	THU-N38-R28/D	7739-5238-S80
1x6	1x6	2x8	2x8	35°	1 5/8"	41mm	THU-N41-R28	7739-5241-S48 90515379
1x6	1x6	2x8	5x10	35°	1 11/16"	43mm	THU-N43-R28	7739-5243-S48

Reaming Tools

R28 Reaming Bit, 6° Taper



Front No, Size	Gauge No, Size	Angle	Dimensions, D		Part Number	Compatibility
			Imperial	Metric		
4x8	8x9	25°	2 1/2"	64mm	THU-R64-R28	7722-4864-S48 90510459
4x10	8x10	30°	3"	76mm	THU-R76-R28	7722-4876-S48 90510460
6x10	8x12	35°	3 1/2"	89mm	THU-R89-R28	7722-4889-S48 90510461

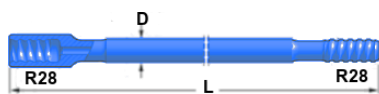
Pilot Adapter, 6° Taper



Dimensions				Part Number	Compatibility
Length		Diameter			
Imperial	Metric	Imperial	Metric		
11 1/4"	285mm	1 1/32"	26mm	THU-R285/26-R28	7822-1526 90516259

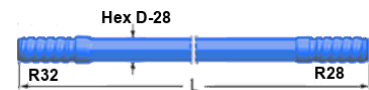
Drill Rod

MF Rod, R28 – Round 32 – R28



Dimensions				Part Number	Compatibility
Length		Diameter			
Imperial	Metric	Imperial	Metric		
10'	3050mm	1 1/4"	32mm	THU-R28-32-R28-3050	7859-5131-20
12'	3660mm	1 1/4"	32mm	THU-R28-32-R28-3660	7859-5137-20

Drifter Rod, R32 – Hex 28 – R28



8' 1 1/2"	2475mm	1 1/8"	28mm	THU-R32-H28-R28-2475	7853-7624-20 90514370
9' 1 5/8"	2785mm	1 1/8"	28mm	THU-R32-H28-R28-2785	7853-7627-20 90514164
10' 1 5/8"	3090mm	1 1/8"	28mm	THU-R32-H28-R28-3090	7853-7631-20 90514168
10' 11 1/2"	3340mm	1 1/8"	28mm	THU-R32-H28-R28-3340	7853-7633-20 90515496
12' 1 5/8"	3700mm	1 1/8"	28mm	THU-R32-H28-R28-3700	7853-7637-20 90514966
14' 1 1/2"	4305mm	1 1/8"	28mm	THU-R32-H28-R28-4305	7853-7643-20

Coupling Sleeve



5 29/32"	150mm	1 47/64"	44mm	THU-R28-150/44	7993-3644 90515731
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Underground Face and Development Drilling Tools

- Face and Development Drill Bits _____ PAGE 10
- Face and Development Drifter Rods _____ PAGE 15
- Face and Development M/F and Threaded Rods _____ PAGE 17
- Face and Development Coupling Sleeves _____ PAGE 18
- Face and Development Shank Adaptors _____ PAGE 18

Face and Development Drilling Tools

Black Diamond Drilling manufactures and supplies world class drill bits, drill rods and auxiliary drilling tools and equipment suitable to any Face and Development drilling application.

R25 BIT THREAD

BITS	Flushing Hole, mm		Buttons, mm		Angle	Dimensions		Part Number	Compatibility
	Front No Size	Gauge No Size	Front No Size	Gauge No Size		Imperial	Metric		
	1x5	1x5	2x7	5x7	30°	1 5/16"	33mm	THU-N33FF-R25	7732-4433C-S48 110284
	1x5	1x5	2x7	5x7	30°	1 5/16"	33mm	THU-N33FF-R25-SB	110691
	1x5	1x5	2x7	5x9	30°	1 3/8"	35mm	THU-N35FF-R25	7732-4435-S48 110580
	1x6	1x5	2x7	5x9	30°	1 3/8"	35mm	THU-N35FF-R25-SB	110822
	1x6	1x6	2x8	5x9	30°	1 3/8"	35mm	THU-N35FF-R25-B	111003
	2x6	1x6	2x7	5x8	35°	1 1/2"	38mm	THU-N38FF-R25	7732-5238-R48 110442
	2x6	1x6	2x7	5x9	35°	1 1/2"	38mm	THU-N38FF-R25-B	110973
	2x6	1x6	2x8	5x10	35°	1 5/8"	41mm	THU-N41FF-R25	7732-5241-S48 110169
	2x6	1x6	2x9	5x10	35°	1 5/8"	41mm	THU-N41FF-R25-B	110962
	2x6	1x6	2x8	6x8	35°	1 1/2"	38mm	THU-N38FF-R25-SB	110749

R28 BIT THREAD

BITS	Flushing Hole, mm		Buttons, mm		Angle	Dimensions		Part Number	Compatibility
	Front No Size	Gauge No Size	Front No Size	Gauge No Size		Imperial	Metric		
	1x5	2x5	2x7	5x8	30°	1 7/16"	36mm	THU-N36FF-R28	110527
	1x5	2x5	2x7	5x8	30°	1 15/32"	37mm	THU-N37FF-R28	7739-5237-S48 110818
	1x5	2x5	2x7	5x9	30°	1 15/32"	37mm	THU-N37FF-R28-B	110904
	1x6	2x6	2x7	5x9	30°	1 1/2"	38mm	THU-N38FF-R28	7739-5238-R48 110002
	1x6	2x6	2x7	5x9	30°	1 1/2"	38mm	THU-N38FF-R28-B	111495
	1x6	2x6	2x7	5x9	30°	1 5/8"	41mm	THU-N41FF-R28	7739-5241-S48 110006
	1x6	2x6	2x7	5x9	35°	1 5/8"	41mm	THU-N41FF-R28-B	110442

R32 BIT THREAD

BITS	Flushing Hole, mm		Buttons, mm		Angle	Dimensions		Part Number	Compatibility
	Front No Size	Gauge No Size	Front No Size	Gauge No Size		Imperial	Metric		
Ballistic Button Bit									
	3x4.5	-	3x8	6x9	10° 35°	1 11/16"	43mm	THU-N43FF-R32-B	7733-6043-F49
	3x5	-	3x8	6x10	10° 35°	1 3/4"	45mm	THU-N45FF-R32-B	7733-6045-F49
	3x5	-	3x9	6x10	10° 35°	1 7/8"	48mm	THU-N48FF-R32-B	7733-6048-F49
	3x6	-	3x9	6x10	10° 40°	2"	51mm	THU-N51FF-R32-B	7733-6051-F49
Parabolic Button Bit									
	1x5	2x6	2x9	5x10	35°	1 11/16"	43mm	THU-N43FF-R32	7733-5243A-S48
	1x5	2x6	2x9	5x10	35°	1 11/16"	43mm	THU-N43FF-R32B	7733-5243A-S70
	1x5	2x6	2x9	5x10	35°	1 11/16"	43mm	THU-N43FF-R32C	7733-5243A-S80
	1x5	2x6	2x9	5x11	30°	1 3/4"	45mm	THU-N45FF-R32	7733-5245A-S48
	1x6	2x7.5	2x9	5x11	35°	1 7/8"	48mm	THU-N48FF-R32	7733-5248A-S48
	1x6	2x7.5	2x10	5x12	35°	2"	51mm	THU-N51FF-R32	7733-5251A-S48
	3x4.5	1x4.5	3x8	6x9	30°	1 11/16"	43mm	THU-N43FF-R32D	7733-5343A-R48
	3x4.5	1x4.5	3x8	6x10	30°	1 3/4"	45mm	THU-N45FF-R32B	7733-5345A-R48
	3x4.5	1x4.5	3x8	6x10	25°	1 3/4"	45mm	THU-N45FF-R32C	7733-5345A-S48
	3x4.5	1x4.5	3x8	6x10	25°	1 3/4"	45mm	THU-N45FF-R32D	7733-5345A-S70
	3x4.5	1x4.5	3x8	6x10	25°	1 3/4"	45mm	THU-N45FF-R32E	7733-5345A-S80
	3x5	1x5	3x9	6x10	30°	1 7/8"	48mm	THU-N48FF-R32B	7733-5348A-R48
	3x6	1x6	3x9	6x10	40°	2"	51mm	THU-N51FF-R32B	7733-1651A-R48
	3x6	1x6	3x9	6x10	35°	2"	51mm	THU-N51FF-R32C	7733-1651A-S48
	3x6	1x6	3x10	6x11	35°	2 1/4"	57mm	THU-N57FF-R32	7733-1657A-S48
		1x4.5	4x4.5	-	-	-	1 3/4"	45mm	THU-N45X-R32
Dome Reaming Bit									
	3x6	1x6	1x13	14x13	35°	4"	102mm	THU-REAMER-D-102-R32	-
	3x6	1x6	1x13	18x13	35°	5"	127mm	THU-REAMER-D-127-R32	-
Spear Reaming Bit									
	3x6	1x6	3x10	12x13	35°	4"	102mm	THU-REAMER-S-102/41-R32	7733-5602P-S48
	3x7	1x6	3x10	16x13	35°	5"	127mm	THU-REAMER-S-127/41-R32	7733-5627P-S48
Two Piece Reamer Pilot Bit									
	-	-	-	-	12°	1 9/16"	40mm	THU-REAMER-PILOT-R32/12D	90516258
Two Piece Reaming Bit									
	-	-	4x10	8x12	12°	3 1/2"	89mm	THU-REAMER-OUTER-89/12D	90510174
	-	-	4x11	8x11	12°	4"	102mm	THU-REAMER-OUTER-102/12D	90510468
	-	-	8x12	12x12	12°	5"	127mm	THU-REAMER-OUTER-127/12D	90510470

BD33 BIT THREAD

BITS	Flushing Hole, mm		Buttons, mm		Angle	Dimensions		Part Number	
	Front No Size	Gauge No Size	Front No Size	Gauge No Size		Imperial	Metric		
Ballistic Button bit									
	3x4.5	-	3x8	6x9	10° 35°	1 11/16"	43mm	THU-N43FF-BD33-B	
	3x5	-	3x8	6x10	10° 35°	1 3/4"	45mm	THU-N45FF-BD33-B	
	3x5	-	3x9	6x10	10° 35°	1 7/8"	48mm	THU-N48FF-BD33-B	
	3x6	-	3x9	6x10	10° 40°	2"	51mm	THU-N51FF-BD33-B	
Parabolic Button bit									
	1x5	2x6	2x9	5x10	35°	1 11/16"	43mm	THU-N43FF-BD33	
	1x5	2x6	2x9	5x10	35°	1 11/16"	43mm	THU-N43FF-BD33B	
	1x5	2x6	2x9	5x10	35°	1 11/16"	43mm	THU-N43FF-BD33C	
	1x5	2x6	2x9	5x11	30°	1 3/4"	45mm	THU-N45FF-BD33	
	1x6	2x7.5	2x9	5x11	35°	1 7/8"	48mm	THU-N48FF-BD33	
	1x6	2x7.5	2x10	5x12	35°	2"	51mm	THU-N51FF-BD33	
		3x4.5	1x4.5	3x8	6x9	30°	1 11/16"	43mm	THU-N43FF-BD33D
		3x4.5	1x4.5	3x8	6x10	30°	1 3/4"	45mm	THU-N45FF-BD33B
		3x4.5	1x4.5	3x8	6x10	25°	1 3/4"	45mm	THU-N45FF-BD33C
		3x4.5	1x4.5	3x8	6x10	25°	1 3/4"	45mm	THU-N45FF-BD33D
3x4.5		1x4.5	3x8	6x10	25°	1 3/4"	45mm	THU-N45FF-BD33E	
3x5		1x5	3x9	6x10	30°	1 7/8"	48mm	THU-N48FF-BD33B	
3x6		1x6	3x9	6x10	40°	2"	51mm	THU-N51FF-BD33B	
3x6		1x6	3x9	6x10	35°	2"	51mm	THU-N51FF-BD33C	
3x6		1x6	3x10	6x11	35°	2 1/4"	57mm	THU-N57FF-BD33	
1x4.5		4x4.5	-	-	-	1 3/4"	45mm	THU-N45X-BD33	
Dome Reaming Bit									
	3x6	1x6	1x13	14x13	35°	4"	102mm	THU-REAMER-D-102-BD33	
	3x6	1x6	1x13	18x13	35°	5"	127mm	THU-REAMER-D-127-BD33	
Spear Reaming Bit									
	3x6	1x6	3x10	12x13	35°	4"	102mm	THU-REAMER-S-102/41-BD33	
	3x7	1x6	3x10	16x13	35°	5"	127mm	THU-REAMER-S-127/41-BD33	
Two Piece Reamer Pilot Bit									
	-	-	-	-	12°	1 9/16"	40mm	THU-REAMER-PILOT-BD33/12D	
Two Piece Reaming Bit									
	-	-	4x10	8x12	12°	3 1/2"	89mm	THU-REAMER-OUTER-89/12D	
	-	-	4x11	8x11	12°	4"	102mm	THU-REAMER-OUTER-102/12D	
	-	-	8x12	12x12	12°	5"	127mm	THU-REAMER-OUTER-127/12D	

BD35 BIT THREAD

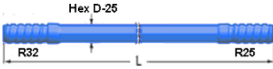
BITS	Flushing Hole, mm		Buttons, mm		Angle	Dimensions		Part Number
	Front No Size	Gauge No Size	Front No Size	Gauge No Size		Imperial	Metric	
Ballistic Button bit 	3x4.5	-	3x8	6x9	10° 35°	1 11/16"	43mm	THU-N43FF-BD35-B
	3x5	-	3x8	6x10	10° 35°	1 3/4"	45mm	THU-N45FF-BD35-B
	3x5	-	3x9	6x10	10° 35°	1 7/8"	48mm	THU-N48FF-BD35-B
	3x6	-	3x9	6x10	10° 40°	2"	51mm	THU-N51FF-BD35-B
Parabolic Button bit 	1x5	2x6	2x9	5x10	35°	1 11/16"	43mm	THU-N43FF-BD35
	1x5	2x6	2x9	5x10	35°	1 11/16"	43mm	THU-N43FF-BD35B
	1x5	2x6	2x9	5x10	35°	1 11/16"	43mm	THU-N43FF-BD35C
	1x5	2x6	2x9	5x11	30°	1 3/4"	45mm	THU-N45FF-BD35
	1x6	2x7.5	2x9	5x11	35°	1 7/8"	48mm	THU-N48FF-BD35
	1x6	2x7.5	2x10	5x12	35°	2"	51mm	THU-N51FF-BD35
	3x4.5	1x4.5	3x8	6x9	30°	1 11/16"	43mm	THU-N43FF-BD35D
	3x4.5	1x4.5	3x8	6x10	30°	1 3/4"	45mm	THU-N45FF-BD35B
	3x4.5	1x4.5	3x8	6x10	25°	1 3/4"	45mm	THU-N45FF-BD35C
	3x4.5	1x4.5	3x8	6x10	25°	1 3/4"	45mm	THU-N45FF-BD35D
	3x4.5	1x4.5	3x8	6x10	25°	1 3/4"	45mm	THU-N45FF-BD35E
	3x5	1x5	3x9	6x10	30°	1 7/8"	48mm	THU-N48FF-BD35B
	3x6	1x6	3x9	6x10	40°	2"	51mm	THU-N51FF-BD35B
	3x6	1x6	3x9	6x10	35°	2"	51mm	THU-N51FF-BD35C
	3x6	1x6	3x10	6x11	35°	2 1/4"	57mm	THU-N57FF-BD35
	1x4.5	4x4.5	-	-	-	1 3/4"	45mm	THU-N45X-BD35
Dome Reaming Bit 	3x6	1x6	1x13	14x13	35°	4"	102m m	THU-REAMER-D-102-BD35
	3x6	1x6	1x13	18x13	35°	5"	127m m	THU-REAMER-D-127-BD35
Spear Reaming Bit 	3x6	1x6	3x10	12x13	35°	4"	102m m	THU-REAMER-S-102/41-BD35
	3x7	1x6	3x10	16x13	35°	5"	127m m	THU-REAMER-S-127/41-BD35
Two Piece Reamer Pilot Bit 	-	-	-	-	12°	1 9/16"	40mm	THU-REAMER-PILOT-BD35/12D
Two Piece Reaming Bit 	-	-	4x10	8x12	12°	3 1/2"	89mm	THU-REAMER-OUTER-89/12D
	-	-	4x11	8x11	12°	4"	102m m	THU-REAMER-OUTER-102/12D
	-	-	8x12	12x12	12°	5"	127m m	THU-REAMER-OUTER-127/12D

T38 BIT THREAD

BITS	Flushing Hole, mm		Buttons, mm		Angle	Dimensions		Part Number	
	Front No Size	Gauge No Size	Front No Size	Gauge No Size		Imperial	Metric		
Ballistic Button bit									
	3x4.5	-	3x8	6x9	10° 35°	1 11/16"	43mm	THU-N43FF-T38-B	
	3x5	-	3x8	6x10	10° 35°	1 3/4"	45mm	THU-N45FF-T38-B	
	3x5	-	3x9	6x10	10° 35°	1 7/8"	48mm	THU-N48FF-T38-B	
	3x6	-	3x9	6x10	10° 40°	2"	51mm	THU-N51FF-T38-B	
Parabolic Button bit									
	1x5	2x6	2x9	5x10	35°	1 11/16"	43mm	THU-N43FF-T38	
	1x5	2x6	2x9	5x10	35°	1 11/16"	43mm	THU-N43FF-T38B	
	1x5	2x6	2x9	5x10	35°	1 11/16"	43mm	THU-N43FF-T38C	
	1x5	2x6	2x9	5x11	30°	1 3/4"	45mm	THU-N45FF-T38	
	1x6	2x7.5	2x9	5x11	35°	1 7/8"	48mm	THU-N48FF-T38	
	1x6	2x7.5	2x10	5x12	35°	2"	51mm	THU-N51FF-T38	
		3x4.5	1x4.5	3x8	6x9	30°	1 11/16"	43mm	THU-N43FF-T38D
		3x4.5	1x4.5	3x8	6x10	30°	1 3/4"	45mm	THU-N45FF-T38B
		3x4.5	1x4.5	3x8	6x10	25°	1 3/4"	45mm	THU-N45FF-T38C
		3x4.5	1x4.5	3x8	6x10	25°	1 3/4"	45mm	THU-N45FF-T38D
		3x4.5	1x4.5	3x8	6x10	25°	1 3/4"	45mm	THU-N45FF-T38E
		3x5	1x5	3x9	6x10	30°	1 7/8"	48mm	THU-N48FF-T38B
		3x6	1x6	3x9	6x10	40°	2"	51mm	THU-N51FF-T38B
		3x6	1x6	3x9	6x10	35°	2"	51mm	THU-N51FF-T38C
3x6		1x6	3x10	6x11	35°	2 1/4"	57mm	THU-N57FF-T38	
1x4.5		4x4.5	-	-	-	1 3/4"	45mm	THU-N45X-T38	
Dome Reaming Bit									
	3x6	1x6	1x13	14x13	35°	4"	102mm	THU-REAMER-D-102-T38	
	3x6	1x6	1x13	18x13	35°	5"	127mm	THU-REAMER-D-127-T38	
Spear Reaming Bit									
	3x6	1x6	3x10	12x13	35°	4"	102mm	THU-REAMER-S-102/41-T38	
	3x7	1x6	3x10	16x13	35°	5"	127mm	THU-REAMER-S-127/41-T38	

DRIFTER RODS R32 – Hex 25 - R25

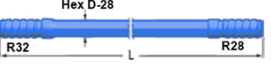
RODS	Dimensions				Part Number	Compatibility
	Length, L		Diameter			
	Imperial	Metric	Imperial	Metric		



6' 1 1/2"	1870mm	1"	25mm	THU-JS-R32/H25/R25-1870	7853-2418-20
7' 1 5/8"	2175mm	1"	25mm	THU-JS-R32/H25/R25-2175	7853-2421-20
8' 1 1/2"	2475mm	1"	25mm	THU-JS-R32/H25/R25-2475	7853-2424-20
8' 7 1/2"	2630mm	1"	25mm	THU-JS-R32/H25/R25-2630	7853-2426-20
9' 1 5/8"	2785mm	1"	25mm	THU-JS-R32/H25/R25-2785	7853-2427-20
9' 7 1/2"	2935mm	1"	25mm	THU-JS-R32/H25/R25-2935	7853-2429-20
10' 1 5/8"	3090mm	1"	25mm	THU-JS-R32/H25/R25-3090	7853-2431-20
10' 11 1/2"	3340mm	1"	25mm	THU-JS-R32/H25/R25-3340	7853-2433-20
12' 1 5/8"	3700mm	1"	25mm	THU-JS-R32/H25/R25-3700	7853-2437-20

DRIFTER RODS R32 – Hex 28 – R28

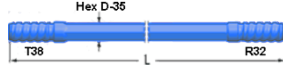
RODS	Dimensions				Part Number	Compatibility
	Length, L		Diameter			
	Imperial	Metric	Imperial	Metric		



8' 1 1/2"	2475mm	1 1/8"	28mm	THU-JS-R32/H28/R28-2475	7853-7624-20
9' 1 5/8"	2785mm	1 1/8"	28mm	THU-JS-R32/H28/R28-2785	7853-7627-20
10' 1 5/8"	3090mm	1 1/8"	28mm	THU-JS-R32/H28/R28-3090	7853-7631-20
10' 11 1/2"	3340mm	1 1/8"	28mm	THU-JS-R32/H28/R28-3340	7853-7633-20
12' 1 5/8"	3700mm	1 1/8"	28mm	THU-JS-R32/H28/R28-3700	7853-7637-20
14' 1 1/2"	4305mm	1 1/8"	28mm	THU-JS-R32/H28/R28-4305	7853-7643-20

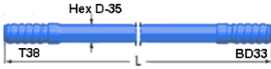
DRIFTER RODS T38 – Hex 35 – R32

RODS	Dimensions				Part Number	Compatibility
	Length		Diameter			
	Imperial	Metric	Imperial	Metric		



8' 1 1/2"	2475mm	1 3/8"	35mm	THU-JS-T38/H35/R32-2475	7324-9624-20
10' 1 5/8"	3090mm	1 3/8"	35mm	THU-JS-T38/H35/R32-3090	7324-9631-20
12' 1 5/8"	3700mm	1 3/8"	35mm	THU-JS-T38/H35/R32-3700	7324-9637-20
14' 1 1/2"	4305mm	1 3/8"	35mm	THU-JS-T38/H35/R32-4305	7324-9643-20
16' 1 1/2"	4915mm	1 3/8"	35mm	THU-JS-T38/H35/R32-4915	7324-9649-20
18' 1 1/2"	5525mm	1 3/8"	35mm	THU-JS-T38/H35/R32-5525	7324-9655-20
20' 1 1/2"	6135mm	1 3/8"	35mm	THU-JS-T38/H35/R32-6135	7324-9661-20
21' 1 1/2"	6440mm	1 3/8"	35mm	THU-JS-T38/H35/R32-6440	7324-9664-20

DRIFTER RODS T38 – Hex 35 – BD35

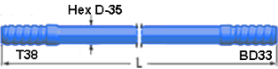
RODS	Dimensions				Part Number
	Length, L		Diameter		
	Imperial	Metric	Imperial	Metric	
	8' 1 1/2"	2475mm	1 3/8"	35mm	THU-JS-T38/H35/BD35-2475
	10' 1 5/8"	3090mm	1 3/8"	35mm	THU-JS-T38/H35/BD35-3090
	12' 1 5/8"	3700mm	1 3/8"	35mm	THU-JS-T38/H35/BD35-3700
	14' 1 1/2"	4305mm	1 3/8"	35mm	THU-JS-T38/H35/BD35-4305
	16' 1 1/2"	4915mm	1 3/8"	35mm	THU-JS-T38/H35/BD35-4915
	18' 1 1/2"	5525mm	1 3/8"	35mm	THU-JS-T38/H35/BD35-5525
	20' 1 1/2"	6135mm	1 3/8"	35mm	THU-JS-T38/H35/BD35-6135
	21' 1 1/2"	6440mm	1 3/8"	35mm	THU-JS-T38/H35/BD35-6440

DRIFTER RODS T38 – Hex 35 – T38

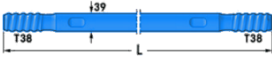
RODS	Dimensions				Part Number
	Length, L		Diameter		
	Imperial	Metric	Imperial	Metric	
	8' 1 1/2"	2475mm	1 3/8"	35mm	THU-JS-T38/H35/T38-2475
	10' 1 5/8"	3090mm	1 3/8"	35mm	THU-JS-T38/H35/T38-3090
	12' 1 5/8"	3700mm	1 3/8"	35mm	THU-JS-T38/H35/T38-3700
	14' 1 1/2"	4305mm	1 3/8"	35mm	THU-JS-T38/H35/T38-4305
	16' 1 1/2"	4915mm	1 3/8"	35mm	THU-JS-T38/H35/T38-4915
	18' 1 1/2"	5525mm	1 3/8"	35mm	THU-JS-T38/H35/T38-5525
	20' 1 1/2"	6135mm	1 3/8"	35mm	THU-JS-T38/H35/T38-6135
	21' 1 1/2"	6440mm	1 3/8"	35mm	THU-JS-T38/H35/T38-6440



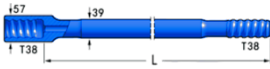
DRIFTER RODS T38 – Hex 35 – BD33

RODS	Dimensions				Part Number
	Length, L		Diameter		
	Imperial	Metric	Imperial	Metric	
	8' 1 1/2"	2475mm	1 3/8"	35mm	THU-JS-T38/H35/BD33-2475
	10' 1 5/8"	3090mm	1 3/8"	35mm	THU-JS-T38/H35/BD33-3090
	12' 1 5/8"	3700mm	1 3/8"	35mm	THU-JS-T38/H35/BD33-3700
	14' 1 1/2"	4305mm	1 3/8"	35mm	THU-JS-T38/H35/BD33-4305
	16' 1 1/2"	4915mm	1 3/8"	35mm	THU-JS-T38/H35/BD33-4915
	18' 1 1/2"	5525mm	1 3/8"	35mm	THU-JS-T38/H35/BD33-5525
	20' 1 1/2"	6135mm	1 3/8"	35mm	THU-JS-T38/H35/BD33-6135
	21' 1 1/2"	6440mm	1 3/8"	35mm	THU-JS-T38/H35/BD33-6440

DRIFTER RODS T38 – Round 39 – T38

RODS	Dimensions				Part Number
	Length, L		Diameter		
	Imperial	Metric	Imperial	Metric	
	8' 1 1/2"	2475mm	1 17/32"	39mm	THU-JS-T38/R39/T38-2475
	10' 1 5/8"	3090mm	1 17/32"	39mm	THU-JS-T38/R39/T38-3090
	12' 1 5/8"	3700mm	1 17/32"	39mm	THU-JS-T38/R39/T38-3700
	14' 1 1/2"	4305mm	1 17/32"	39mm	THU-JS-T38/R39/T38-4305
	16' 1 1/2"	4915mm	1 17/32"	39mm	THU-JS-T38/R39/T38-4915
	18' 1 1/2"	5525mm	1 17/32"	39mm	THU-JS-T38/R39/T38-5525
	20' 1 1/2"	6135mm	1 17/32"	39mm	THU-JS-T38/R39/T38-6135
	21' 1 1/2"	6440mm	1 17/32"	39mm	THU-JS-T38/R39/T38-6440

MF SPEED RODS T38 – Round 39 – T38

RODS	Dimensions				Part Number
	Length, L		Diameter		
	Imperial	Metric	Imperial	Metric	
	8' 1 1/2"	2475mm	1 17/32"	39mm	ROD-THU-T38/R39/T38-2475-MF
	10' 1 5/8"	3090mm	1 17/32"	39mm	ROD-THU-T38/R39/T38-3090-MF
	12' 1 5/8"	3700mm	1 17/32"	39mm	ROD-THU-T38/R39/T38-3700-MF
	14' 1 1/2"	4305mm	1 17/32"	39mm	ROD-THU-T38/R39/T38-4305-MF
	16' 1 1/2"	4915mm	1 17/32"	39mm	ROD-THU-T38/R39/T38-4915-MF
	18' 1 1/2"	5525mm	1 17/32"	39mm	ROD-THU-T38/R39/T38-5525-MF
	20' 1 1/2"	6135mm	1 17/32"	39mm	ROD-THU-T38/R39/T38-6135-MF
	21' 1 1/2"	6440mm	1 17/32"	39mm	ROD-THU-T38/R39/T38-6440-MF

THREADED RODS T38

RODS	Dimensions				Part Number
	Length, L		Diameter		
	Imperial	Metric	Imperial	Metric	
	12'	3660mm	1 1/2"	38mm	THU-TROD-T38-3660

COUPLING SLEEVES

COUPLING SLEEVES	Dimensions							
	Threads		Length, L		Diameter, D		Part Number	Compatibility
			Imperial	Metric	Imperial	Metric		
	T38	R32	7 1/8"	180mm	2 1/8"	55mm	THU-COUP-T38/R32-FB	90504217
	T38	BD35	7 1/8"	180mm	2 1/8"	55mm	THU-COUP-T38/BD35-FB	-
	T38	T38	7 1/8"	180mm	2 1/9"	55mm	THU-COUP-T38/T38-FB	90515738
	T45	R32	7 1/2"	190mm	2 1/4"	57mm	THU-COUP-T45/R32-FB	-
	T45	T38	10 1/4"	260mm	2 1/4"	57mm	THU-COUP-T45/T38-FB	90503941
	T45	T45	9 1/16"	230mm	2 5/8"	66mm	THU-COUP-T45/T45-FB	90515742

SHANK ADAPTORS

SHANK ADAPTOR	Drifter Model	Thread	Length, L	Part Number
	HLX5/RDX5	T38	500mm	THU-SHANK-HLX5/500-T38
	HLX5/RDX5	T45	500mm	THU-SHANK-HLX5/500-T45
	RD520/525	T38	525mm	THU-SHANK-RD520/525-T38
	RD520/525	T45	525mm	THU-SHANK-RD520/525-T45
	COP MD20	T38	470mm	THU-SHANK-COPMD20-T38
	COP MD20	T38	560mm	THU-SHANK-COPMD20-T45
	COP 1838+	T38	525mm	THU-SHANK-COP1838-T38/525/38
	COP 1838+	T45	525mm	THU-SHANK-COP1838-T45/525/52
	COP 1838MUX+/HUX+	T38	730mm	THU-SHANK-1838MUX-T38/730/52
	COP 1838MUX+/HUX+	T45	730mm	THU-SHANK-1838MUX-T45/730/52





Underground Production Drilling Tools

- Underground Production Drill Bits _____ PAGE 20
- Underground Production M/F Speed Rods _____ PAGE 26
- Underground Production Guide Tubes _____ PAGE 27
- Underground Production Drill Tubes _____ PAGE 27
- Underground Production Drilling Shank Adaptors _____ PAGE 28
- Underground Production Drilling Bit Adaptors _____ PAGE 29

R32 BIT THREAD

BITS	Flushing Hole, mm		Buttons, mm		Angle	Dimensions		Part Number	Compatibility
	Front No Size	Gauge No Size	Front No Size	Gauge No Size		Imperial	Metric		
Parabolic Button Bit									
	2x6	1x6	2x8	6x9	35°	1 5/8"	41mm	THU-N41FF-R32	90505171
	2x5	2x6	2x9	6x10	35°	1 11/16"	43mm	THU-N43FF-R32	7733-6043-F49
	2x5	2x6	2x9	6x10	30°	1 3/4"	45mm	THU-N45FF-R32	7733-6045-F49
	2x5	2x6	2x9	6x11	35°	1 7/8"	48mm	THU-N48FF-R32	7733-6048-F49
	2x6	2x7.5	2x10	6x12	30°	2"	51mm	THU-N51FF-R32	7733-6051-F49
	3x6	1x6	3x10	6x11	30°	2 1/4"	57mm	THU-N57FF-R32	90510453
	3x7	2x6	3x11	6x12	30°	2 1/2"	64mm	THU-N64FF-R32	7733-1664-S48
	4x7	-	5x10	6x11	30°	3"	76mm	THU-N76FF-R32	7733-1876-S48
Semi-Ballistic Button Bit									
	3x4.5	2x6	3x8	6x9	10° 35°	1 5/8"	41mm	THU-N41FF-R32-SB	90505172
	3x4.5	3x6	3x8	6x9	10° 35°	1 11/16"	43mm	THU-N43FF-R32-SB	90030056
	3x5	2x6	3x9	6x11	10° 35°	1 3/4"	45mm	THU-N45FF-R32-SB	7733-5245A-S48
	3x6	3x7.5	3x9	6x11	10° 35°	1 7/8"	48mm	THU-N48FF-R32-SB	90030041
	3x6	2x7.5	3x10	6x12	10° 40°	2"	51mm	THU-N51FF-R32-SB	7733-5251A-S48
	3x4.5	1x4.5	3x8	6x9	10° 40°	2 1/4"	57mm	THU-N57FF-R32-SB	7733-5343A-R48
	3x4.5	1x4.5	3x8	6x10	10° 40°	2 1/2"	64mm	THU-N64FF-R32-SB	7733-5345A-R48
	3x4.5	1x4.5	3x8	6x10	10° 40°	3"	76mm	THU-N76FF-R32-SB	7733-5345A-S48
Ballistic Button Bit									
	2x4.5	2x6	2x8	6x9	10° 35°	1 5/8"	41mm	THU-N41FF-R32-B	-
	2x4.5	2x6	2x9	6x10	10° 35°	1 11/16"	43mm	THU-N43FF-R32-B	-
	2x5	2x6	2x9	6x11	10° 35°	1 3/4"	45mm	THU-N45FF-R32-B	7733-5345A-S80
	2x6	2x7.5	2x9	6x11	10° 35°	1 7/8"	48mm	THU-N48FF-R32-B	7733-5348A-R48
	3x5	1x6	2x9	6x12	10° 40°	2"	51mm	THU-N51FF-R32-B	7733-1651A-R48
	3x5	1x6	3x9	6x9	10° 40°	2 1/4"	57mm	THU-N57FF-R32-B	7733-1651A-S48
	3x5	1x6	3x9	6x10	10° 40°	2 1/2"	64mm	THU-N64FF-R32-B	7733-1657A-S48
	3x5	1x6	3x9	6x10	10° 40°	3"	76mm	THU-N76FF-R32-B	-
Cross Type Bit									
	1x4.5	4x4.5	-	-	-	1 3/4"	45mm	THU-N45X-R32	7733-1345A-42
Dome Reaming Bit									
	3x6	1x6	1x13	12x13	35°	4"	102mm	THU-REAMER-D-102-R32	-
	3x6	1x6	1x13	12x13	35°	5"	127mm	THU-REAMER-D-127-R32	-
Spear Reaming Bit									
	-	3x6	3x10	12x13	35°	4"	102mm	THU-REAMER-S-102/41-R32	7733-5602P-S48
	-	3x6	3x10	12x13	35°	5"	127mm	THU-REAMER-S-127/76-R32	7733-5627P-S48

BD35 BIT THREAD

BITS	Flushing Hole, mm		Buttons, mm		Angle	Dimensions		Part Number
	Front No Size	Gauge No Size	Front No Size	Gauge No Size		Imperial	Metric	
Parabolic Button Bits								
	2x6	1x6	2x8	6x9	35°	1 5/8"	41mm	THU-N41FF-BD35
	2x5	2x6	2x9	6x10	35°	1 11/16"	43mm	THU-N43FF-BD35
	2x5	2x6	2x9	6x10	30°	1 3/4"	45mm	THU-N45FF-BD35
	2x5	2x6	2x9	6x11	35°	1 7/8"	48mm	THU-N48FF-BD35
	2x6	2x7.5	2x10	6x12	30°	2"	51mm	THU-N51FF-BD35
	3x6	1x6	3x10	6x11	30°	2 1/4"	57mm	THU-N57FF-BD35
	3x7	2x6	3x11	6x12	30°	2 1/2"	64mm	THU-N64FF-BD35
	4x7	-	5x10	8x11	30°	3"	76mm	THU-N76FF-BD35
Semi-Ballistic Button Bits								
	3x4.5	2x6	3x8	6x9	10° 35°	1 5/8"	41mm	THU-N41FF-BD35-SB
	3x4.5	2x6	3x9	6x10	10° 35°	1 11/16"	43mm	THU-N43FF-BD35-SB
	3x5	2x6	3x9	6x11	10° 35°	1 3/4"	45mm	THU-N45FF-BD35-SB
	3x6	2x7.5	3x9	6x11	10° 35°	1 7/8"	48mm	THU-N48FF-BD35-SB
	3x6	2x7.5	3x10	6x12	10° 40°	2"	51mm	THU-N51FF-BD35-SB
	3x4.5	1x4.5	3x8	6x9	10° 40°	2 1/4"	57mm	THU-N57FF-BD35-SB
	3x4.5	1x4.5	3x8	6x10	10° 40°	2 1/2"	64mm	THU-N64FF-BD35-SB
	3x4.5	1x4.5	3x8	6x10	10° 40°	3"	76mm	THU-N76FF-BD35-SB
Ballistic Button Bits								
	2x4.5	2x6	2x8	6x9	10° 35°	1 5/8"	41mm	THU-N41FF-BD35-B
	2x4.5	2x6	2x9	6x10	10° 35°	1 11/16"	43mm	THU-N43FF-BD35-B
	2x5	2x6	2x9	6x11	10° 35°	1 3/4"	45mm	THU-N45FF-BD35-B
	2x6	2x7.5	2x9	6x11	10° 35°	1 7/8"	48mm	THU-N48FF-BD35-B
	3x5	1x6	2x9	6x12	10° 40°	2"	51mm	THU-N51FF-BD35-B
	3x5	1x6	3x9	6x9	10° 40°	2 1/4"	57mm	THU-N57FF-BD35-B
	3x5	1x6	3x9	6x10	10° 40°	2 1/2"	64mm	THU-N64FF-BD35-B
	3x5	1x6	3x9	6x10	10° 40°	3"	76mm	THU-N76FF-BD35-B
Cross Type Bit								
	1x4.5	4x4.5	-	-	-	1 3/4"	45mm	THU-N45X-BD35
Dome Reaming Bits								
	3x6	1x6	1x13	12x13	35°	4"	102mm	THU-REAMER-D-102-BD35
	3x6	1x6	1x13	12x13	35°	5"	127mm	THU-REAMER-D-127-BD35
Spear Reaming Bits								
	-	3x6	3x10	12x13	35°	4"	102mm	THU-REAMER-S-102/41-BD35
	-	3x6	3x10	12x13	35°	5"	127mm	THU-REAMER-S-127/76-BD35

R35 BIT THREAD

BITS	Flushing Hole, mm		Buttons, mm		Angle	Dimensions		Part Number
	Front No Size	Gauge No Size	Front No Size	Gauge No Size		Imperial	Metric	

Parabolic Button Bits



2x6	1x6	2x8	6x9	35°	1 5/8"	41mm	THU-N41FF-R35
2x5	2x6	2x9	6x10	35°	1 11/16"	43mm	THU-N43FF-R35
2x5	2x6	2x9	6x10	30°	1 3/4"	45mm	THU-N45FF-R35
2x5	2x6	2x9	6x11	35°	1 7/8"	48mm	THU-N48FF-R35
2x6	2x7.5	2x10	6x12	30°	2"	51mm	THU-N51FF-R35
3x6	1x6	3x10	6x11	30°	2 1/4"	57mm	THU-N57FF-R35
3x7	2x6	3x11	6x12	30°	2 1/2"	64mm	THU-N64FF-R35
4x7	-	5x10	8x11	30°	3"	76mm	THU-N76FF-R35

Semi-Ballistic Button Bits



3x4.5	2x6	3x8	6x9	10° 35°	1 5/8"	41mm	THU-N41FF-R35-SB
3x4.5	2x6	3x9	6x10	10° 35°	1 11/16"	43mm	THU-N43FF-R35-SB
3x5	2x6	3x9	6x11	10° 35°	1 3/4"	45mm	THU-N45FF-R35-SB
3x6	2x7.5	3x9	6x11	10° 35°	1 7/8"	48mm	THU-N48FF-R35-SB
3x6	2x7.5	3x10	6x12	10° 40°	2"	51mm	THU-N51FF-R35-SB
3x4.5	1x4.5	3x8	6x9	10° 40°	2 1/4"	57mm	THU-N57FF-R35-SB
3x4.5	1x4.5	3x8	6x10	10° 40°	2 1/2"	64mm	THU-N64FF-R35-SB
3x4.5	1x4.5	3x8	6x10	10° 40°	3"	76mm	THU-N76FF-R35-SB

Ballistic Button Bits



2x4.5	2x6	2x8	6x9	10° 35°	1 5/8"	41mm	THU-N41FF-R35-B
2x4.5	2x6	2x9	6x10	10° 35°	1 11/16"	43mm	THU-N43FF-R35-B
2x5	2x6	2x9	6x11	10° 35°	1 3/4"	45mm	THU-N45FF-R35-B
2x6	2x7.5	2x9	6x11	10° 35°	1 7/8"	48mm	THU-N48FF-R35-B
3x5	1x6	2x9	6x12	10° 40°	2"	51mm	THU-N51FF-R35-B
3x5	1x6	3x9	6x9	10° 40°	2 1/4"	57mm	THU-N57FF-R35-B
3x5	1x6	3x9	6x10	10° 40°	2 1/2"	64mm	THU-N64FF-R35-B
3x5	1x6	3x9	6x10	10° 40°	3"	76mm	THU-N76FF-R35-B

Cross Type Bit



1x4.5	4x4.5	-	-	-	1 3/4"	45mm	THU-N45X-R35
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Dome Reaming Bits



3x6	1x6	3x13	12x13	35°	4"	102mm	THU-REAMER-D-102-R35
3x6	1x6	3x13	12x13	35°	5"	127mm	THU-REAMER-D-127-R35

Spear Reaming Bits



-	3x6	3x10	12x13	35°	4"	102mm	THU-REAMER-S-102/41-R35
-	3x6	3x10	12x13	35°	5"	127mm	THU-REAMER-S-127/76-R35

T38 BIT THREAD

BITS	Flushing Hole, mm		Buttons, mm		Angle	Dimensions		Part Number	Compatibility
	Front No Size	Gauge No Size	Front No Size	Gauge No Size		Imperial	Metric		
	3x5	1x5	4x10	6x10	40°	2 1/2"	64mm	THU-N64FF-T38	7514-2664A-S48
	3x6	1x6	4x10	6x10	30°	2 1/2"	64mm	THU-N64DC-T38	7514-1664-R48
	3x5	1x6	3x10	6x10	30°	2 1/2"	64mm	THU-R64FF-T38	7732-4437C-S48
	3x6	1x6	3x10	6x10	35°	2 1/2"	64mm	THU-R64DC-T38	7514-4864-R48
	3x6	2x6	3x10	6x10	35°	3"	76mm	THU-N76FF-T38	7732-5241-S48
	3x6	2x6	3x10	6x10	35°	3"	76mm	THU-N76DC-T38	7514-1876-R48
	3x11	1x6	4x11	6x11	35°	3"	76mm	THU-R76FF-T38	7514-7876A-S48
	3x8	-	4x11	6x11	35°	3"	76mm	THU-R76DC-T38	7514-4876-R48
	1	2	-	-	-	2 1/2"	64mm	THU-N64X-T38	-
	1	2	-	-	-	3"	76mm	THU-N76X-T38	-
	1	2	-	-	-	3 1/2"	89mm	THU-N89X-T38	-
	2x13	1x13	3x13	12x13	35°	4"	102mm	THU-REAMER-D-102-T38	-
	2x13	1x13	3x13	12x13	35°	5"	127mm	THU-REAMER-D-127-T38	-
	-	4x9	3x14	12x14	35°	5"	127mm	THU-REAMER-S-127/76-T38B	7514-5627-S48
	-	4x9	3x14	12x14	35°	6"	152mm	THU-REAMER-S-152/80-T38	7514-5652-S48

T45 BIT THREAD

BITS	Flushing Hole, mm		Buttons, mm		Angle	Dimensions		Part Number	Compatibility
	Front No Size	Gauge No Size	Front No Size	Gauge No Size		Imperial	Metric		
	3x12	-	4x12	6x12	30°	3"	76mm	THU-N76FF-T45	7515-2676A-S48
	3x10	-	4x11	6x12	35°	3"	76mm	THU-N76DC-T45	7515-5576A-C60
	3x11	-	4x11	6x11	35°	3"	76mm	THU-R76FF-T45	7515-7876A-S48
	3x9	-	4x11	6x12	35°	3"	76mm	THU-R76DC-T45	7515-7576A-C60
	4x9	-	5x11	8x13	35°	3"	76mm	THU-R76FF-T45-SB	90029835
	4x10	-	6x10	8x11	35°	3 1/2"	89mm	THU-N89FF-T45	7515-2689A-S48
	4x10	-	6x11	8x13	35°	3 1/2"	89mm	THU-N89DC-T45	7515-5589A-C60
	2x10	-	6x10	8x11	35°	3 1/2"	89mm	THU-R89FF-T45	7515-7889A-S48
	2x10	-	6x12	8x13	40°	3 1/2"	89mm	THU-R89DC-T45	7515-7589A-C60
	3x9	1x9	3x13	12x13	35°	5"	127mm	THU-REAMER-D-127-T45	-
	3x9	1x9	3x14	12x14	35°	6"	152mm	THU-REAMER-D-152-T45	-
	-	4x9	3x14	12x14	35°	5"	127mm	THU-REAMER-S-127/76-T45B	7515-5627-S48
	-	4x9	3x14	12x14	35°	6"	152mm	THU-REAMER-S-152/80-T45B	7515-5652-S48
	-	4x9	3x14	12x14	35°	8"	204mm	THU-REAMER-S-204/137-T45	7528-5604-S81

T51 BIT THREAD

BITS	Flushing Hole, mm		Buttons, mm		Angle	Dimensions		Part Number	Compatibility
	Front No Size	Gauge No Size	Front No Size	Gauge No Size		Imperial	Metric		
	4x12	-	6x10	8x11	35°	3 1/2"	89mm	THU-N89FF-T51	7516-2689A-S48
	4x12	-	6x11	8x13	40°	3 1/2"	89mm	THU-N89DC-T51	7516-5589A-C60
	2x12	-	6x10	8x11	35°	3 1/2"	89mm	THU-R89FF-T51	7516-7889A-S48
	2x12	-	6x11	8x13	40°	3 1/2"	89mm	THU-R89DC-T51	7516-7589A-C60
	2x13	-	6x11	8x13	40°	4"	102mm	THU-N102FF-T51	7516-1902-R48
	2x11	-	6x11	8x13	40°	4"	102mm	THU-N102DC-T51	7516-5502A-C60
	4x10	-	6x12	8x13	35°	4"	102mm	THU-R102FF-T51	7516-7002-S70
	4x11	-	6x11	8x13	40°	4"	102mm	THU-R102DC-T51	7516-7502A-C60
	3x11	-	3x14	12x14	35°	6"	152mm	THU-REAMER-D-152-T51	-
	-	4x9	-	12x14	35°	5"	127mm	THU-REAMER-S-127/76-T51	-
	-	3x16	-	12x16	35°	6"	152mm	THU-REAMER-S-152/80-T51B	7516-5652-S48
	-	3x16	-	12x16	35°	8"	204mm	THU-REAMER-S-204/137-T51	7529-5604-S81

ST58 BIT THREAD

BITS	Flushing Hole, mm		Buttons, mm		Angle	Dimensions		Part Number	Compatibility
	Front No Size	Gauge No Size	Front No Size	Gauge No Size		Imperial	Metric		
	4x10	-	6x12	8x13	40°	3 1/2"	89mm	THU-N89FF-ST58	7528-6289-F70
	4x10	-	6x12	8x12	35°	3 1/2"	89mm	THU-N89DC-ST58	7528-8489-R65
	3x12	-	8x11	9x13	35°	3 1/2"	89mm	THU-R89FF-ST58	7528-8589-S70
	3x12	-	8x12	9x12	35°	3 1/2"	89mm	THU-R89DC-ST58	7528-7389-R65
	2x12	-	7x12	8x12	35°	4"	102mm	THU-R102FF-ST58	7528-7302-R70
	2x12	-	7x14	8x14	35°	4 1/2"	115mm	THU-N115FF-ST58	7733-5345A-R48
	4x10	-	6x14	8x14	35°	4 1/2"	115mm	THU-N115DC-ST58	-
	4x10	-	6x14	8x14	35°	4 1/2"	115mm	THU-R115FF-ST58	7528-7315-R70
	3x9	-	-	12x14	35°	5"	127mm	THU-REAMER-S-127/76-ST58	7528-5627-S81
	3x9	-	-	12x14	35°	6"	152mm	THU-REAMER-S-152/80-ST58	7528-5652-S81
	3x16	-	-	12x16	35°	8"	204mm	THU-REAMER-S-204/137-ST58	7528-5604-S81

ST68 BIT THREAD

BITS	Flushing Hole, mm		Buttons, mm		Angle	Dimensions		Part Number	Compatibility
	Front No Size	Gauge No Size	Front No Size	Gauge No Size		Imperial	Metric		
	4x13	-	6x12	8x14	40°	4"	102mm	THU-N102FF-ST58	7529-6202-F70
	4x10	-	6x12	8x12	35°	4"	102mm	THU-N102DC-ST68	7529-8402-R65
	3x15	-	8x14	9x16	35°	4"	102mm	THU-R102FF-ST68	7529-8902-S65
	3x10	-	8x12	9x12	35°	4"	102mm	THU-R102DC-ST68	7529-7302-R70
	2x10	-	7x14	8x14	35°	4 1/2"	115mm	THU-N115DC-ST68	7529-8415-R70
	2x10	-	7x14	8x14	35°	4 1/2"	115mm	THU-R115FF-ST68	7529-7315-R65
	4x12	-	6x14	8x16	35°	5"	127mm	THU-N127FF-ST68	-
	4x12	-	6x14	8x16	35°	5"	127mm	THU-R127FF-ST68	-
	3x9	-	-	12x16	35°	6"	152mm	THU-REAMER-S-152/80-ST68	7529-5652-S81
	3x16	-	-	12x16	35°	8"	204mm	THU-REAMER-S-204/137-ST68	7529-5604-S81
	3x16	-	-	12x18	35°	10"	254mm	THU-REAMER-S-254/150-ST68	7529-5654-S65

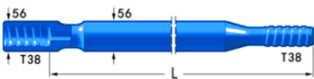
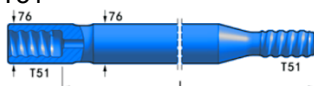
MF SPEED RODS

ROD THREAD	Dimensions				Part Number	Compatibility
	Length, L		Diameter			
	Imperial	Metric	Imperial	Metric		
R32	4'	1220mm	1 1/4"	32mm	ROD-THU-R32/R32/R32-1220-MF	90500834
	5'	1525mm	1 1/4"	32mm	ROD-THU-R32/R32/R32-1525-MF	90500627
	6'	1830mm	1 1/4"	32mm	ROD-THU-R32/R32/R32-1830-MF	90500628
T35	4'	1220mm	1 1/2"	39mm	ROD-THU-T35/R39/T35-1220-MF	-
	5'	1525mm	1 1/2"	39mm	ROD-THU-T35/R39/T35-1525-MF	-
	6'	1830mm	1 1/2"	39mm	ROD-THU-T35/R39/T35-1830-MF	-
R35	4'	1220mm	1 1/2"	39mm	ROD-THU-R35/R39/R35-1220-MF	-
	5'	1525mm	1 1/2"	39mm	ROD-THU-R35/R39/R35-1525-MF	-
	6'	1830mm	1 1/2"	39mm	ROD-THU-R35/R39/R35-1830-MF	-

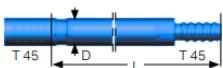
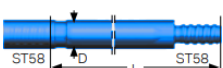
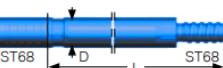
T38		4'	1220mm	1 1/2"	39mm	ROD-THU-T38/R39/T38-1220-MF	90510719
		5'	1525mm	1 1/2"	39mm	ROD-THU-T38/R39/T38-1525-MF	7324-4715C-20 90510720
		6'	1830mm	1 1/2"	39mm	ROD-THU-T38/R39/T38-1830-MF	7324-4718C-20 90510721
T45		4'	1220mm	1 3/4"	46mm	ROD-THU-T45/R46/T45-1220-MF	7325-7712C-20
		5'	1525mm	1 3/4"	46mm	ROD-THU-T45/R46/T45-1525-MF	90510730
		6'	1830mm	1 3/4"	46mm	ROD-THU-T45/R46/T45-1830-MF	90510731
T51		4'	1220mm	2"	52mm	ROD-THU-T51/R52/T51-1220-MF	7326-5518C-20 90510738
		5'	1525mm	2"	52mm	ROD-THU-T51/R52/T51-1525-MF	90510737
		6'	1830mm	2"	52mm	ROD-THU-T51/R52/T51-1830-MF	90510738



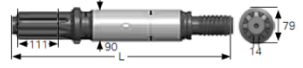
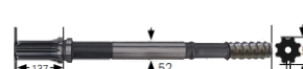
GUIDE TUBES

GUIDE TUBE	Dimensions				Part Number	Compatibility
	Length, L		Diameter			
	Imperial	Metric	Imperial	Metric		
T38 	4'	1220mm	2 1/8"	56mm	GTUBE-THU-T38-1220-MF	7955-5612-20 94502648
	5'	1525mm	2 1/8"	56mm	GTUBE-THU-T38-1525-MF	94000051
	6'	1830mm	2 1/8"	56mm	GTUBE-THU-T38-1830-MF	7955-5618-20 94000052
T45 	4'	1220mm	2 1/2"	64mm	GTUBE-THU-T45-1220-MF	94502687
	5'	1525mm	2 1/2"	64mm	GTUBE-THU-T45-1525-MF	94000047
	6'	1830mm	2 1/2"	64mm	GTUBE-THU-T45-1830-MF	94000046
T51 	4'	1220mm	3"	76mm	GTUBE-THU-T51-1220-MF	90514257
	5'	1525mm	3"	76mm	GTUBE-THU-T51-1525-MF	-
	6'	1830mm	3"	76mm	GTUBE-THU-T51-1830-MF	7957-7618-20 94000046

DRILL TUBES

THREAD	Dimensions				Part Number	Compatibility
	Length		Diameter			
	Imperial	Metric	Imperial	Metric		
T45	4'	1220mm	2 1/2"	65mm	TUBE-THU-T45-1220-MF	-
	5'	1525mm	2 1/2"	65mm	TUBE-THU-T45-1525-MF	7985-6315-26
	6'	1830mm	2 1/2"	65mm	TUBE-THU-T45-1830-MF	7985-6318-26
ST58	4'	1220mm	3"	76mm	TUBE-THU-ST58-1220-MF	-
	5'	1525mm	3"	76mm	TUBE-THU-ST58-1525-MF	7378-7615-26
	6'	1830mm	3"	76mm	TUBE-THU-ST58-1830-MF	7378-7618-26
ST68	4'	1220mm	3 1/2"	87mm	TUBE-THU-ST68-1220-MF	-
	5'	1525mm	3 1/2"	87mm	TUBE-THU-ST68-1525-MF	7379-8715-26
	6'	1830mm	3 1/2"	87mm	TUBE-THU-ST68-1830-MF	7379-8718-26

SHANK ADAPTORS

SHANK ADAPTOR	Drifter Model	Thread	Length, L	Part Number	Compatibility
	HL1000	T45	590mm	THU-SHANK-HL1000-T45/590/52	7305-6008-01
	HL1000	T51	670mm	THU-SHANK-HL1000-T51/670/52	7306-6010-02
	HL1500ST	ST58	635mm	THU-SHANK-HL1500ST-ST58	7328-6035-01
	HL1500ST	ST68	635mm	THU-SHANK-HL1500ST-ST68	7329-6035-05
	HL1560ST	ST58	635mm	THU-SHANK-HL1560ST-ST58	7328-6020-01
	HL1560ST	ST68	635mm	THU-SHANK-HL1560ST-ST68	7329-6020-05
	HL500	T38	550mm	THU-SHANK-HL500S-T38/460/45	7304-7557-01
	HL500	T45	550mm	THU-SHANK-HL500S-T45/460/45	7305-7557-01
	HL700	T45	600mm	THU-SHANK-HL710-T45/600/45	7305-7577-02
	HL700	T51	600mm	THU-SHANK-HL710-T45/600/52	7306-7577-03
	COP 1838/1532	T38	525mm	THU-SHANK-1838-T38/525/38	90516121
	COP 1838ME	T38	435mm	THU-SHANK-1838ME-T38/435/38	90516120
	COP 1838EX	T45	730mm	THU-SHANK-1838EX-T45/730/52	7305-3826-02
	COP 1838MUX+	T38	730mm	THU-SHANK-1838MUX-T38/730/52	7304-3663-01
	COP 1838MUX+	T45	730mm	THU-SHANK-1838MUX-T45/730/52	7305-3663-01
	COP 2550UX	T45	770mm	THU-SHANK-2550UX-T45/770/60	90516030
	COP 2550UX	ST58	770mm	THU-SHANK-2550UX-ST58/770/77	90516511
	COP 4050MUX	ST58	835mm	THU-SHANK-4050MUX-ST58/835/90	7328-3720-01
	COP 4050MUX	ST68	835mm	THU-SHANK-4050MUX-ST68/835/90	7329-3720-01



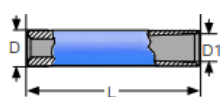
BIT ADAPTORS

Thread		Length, mm	Part Number	Compatibility
Female	Male			
T38	T45	230	ADAPT-THU-FT38-MT45	7334-5401
	T51	280	ADAPT-THU-FT38-MT51	-
T45	T38	220	ADAPT-THU-FT45-MT38	7335-4401
	T51	285	ADAPT-THU-FT45-MT51	7335-6401
T51	T45	225	ADAPT-THU-FT51-MT45	7336-5401
	ST58	280	ADAPT-THU-FT51-MST58	-
	ST68	280	ADAPT-THU-FT51-MST68	-
ST58	T51	320	ADAPT-THU-FST58-MT51	-
	ST68	320	ADAPT-THU-FST58-MST68	-
ST68	T51	350	ADAPT-THU-FST68-MT51	-
	ST58	350	ADAPT-THU-FST68-MST58	-

RECOVERY TOOLS

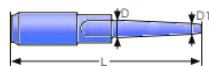
RECOVERY TOOL	Size	Dimensions						Part Number
		D		D1		Length, L		
		Imperial	Metric	Imperial	Metric	Imperial	Metric	

Fishing Sleeve



R32 Round	1 59/64"	49mm	1 55/64"	47mm	11 13/16"	300mm	THU-TOOL-FSLEEVE-R32
R38 Round	2 23/64	60mm	-	-	1' 1 57/64"	353mm	THU-TOOL-FSLEEVE-R38
T35 Round	2 3/64"	52mm	1 31/32"	50mm	11 3/16"	284mm	THU-TOOL-FSLEEVE-T35
T38 Round	2 13/32"	61mm	2 19/64"	58mm	1' 1 57/64"	353mm	THU-TOOL-FSLEEVE-T38
T45 Round	2 51/64"	71mm	2 41/64"	67mm	10 53/64"	275mm	THU-TOOL-FSLEEVE-T45
T51 Round	3 15/64"	82mm	3 5/64"	78mm	1' 5 21/64"	440mm	THU-TOOL-FSLEEVE-T51
ST58 Rods	3 5/8"	92mm	3 7/16"	87mm	1' 5 23/32"	450mm	THU-TOOL-FSLEEVE-ST58
ST68	4 1/64"	102mm	3 37/64"	91mm	1' 3 5/32"	385mm	THU-TOOL-FSLEEVE-ST68

Fishing Pike



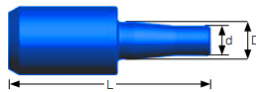
R32 rods	49/64"	19.4mm	5/32"	4mm	11 1/32"	280mm	THU-TOOL-FPIKE-R32
T38 rods	49/64"	19.4mm	5/16"	8mm	9 21/64"	237mm	THU-TOOL-FPIKE-T38
T45 rods	1"	25mm	5/16"	8mm	10 53/64"	275mm	THU-TOOL-FPIKE-T45
T51 rods	1 1/16"	27mm	19/32"	15mm	11 7/32"	285mm	THU-TOOL-FPIKE-T51
ST58 rods	1 17/32"	39mm	53/64"	21mm	12 33/64"	318mm	THU-TOOL-FPIKE-ST58
ST68 rods	1 13/16"	46mm	1 7/16"	28mm	1 33/64"	318mm	THU-TOOL-FPIKE-ST68

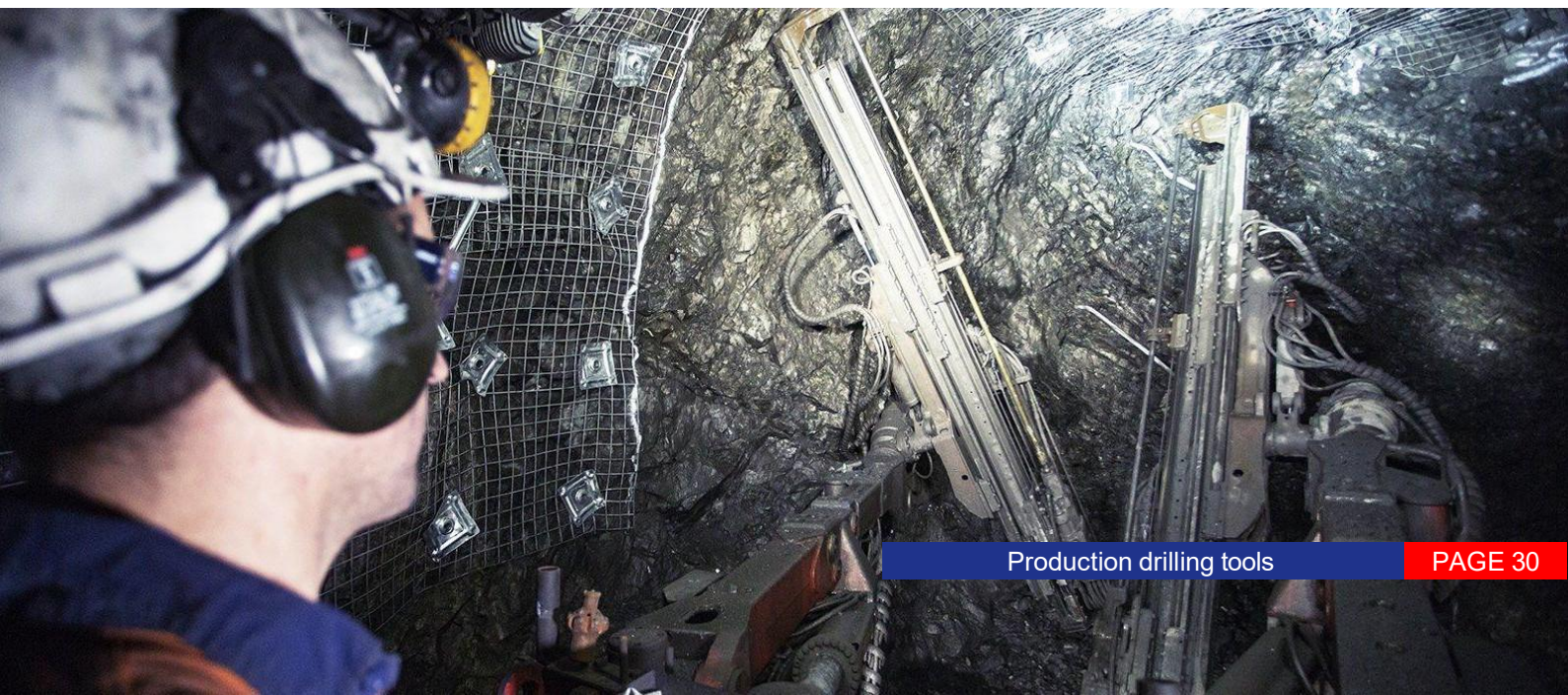
FRICTION BOLT DRIVING TOOLS

FRICTION BOLT DOLLY BARS

RODS	Diameter		Length, L		Part Number	Compatibility
	Imperial	Metric	Imperial	Metric		
	1 1/2"	39mm	19 11/16"	500mm	THU-DBAR-T38/R39/T38-MM-500	7324-4709C-20
	1 1/2"	39mm	3'	915mm	THU-DBAR-T38/R39/T38-MM-915	-
	1 1/2"	39mm	19 11/16"	500mm	THU-DBAR-T45/R39/T38-MF-500	-
	1 1/2"	39mm	3'	915mm	THU-DBAR-T45/R39/T38-MF-915	-

FRICTION BOLT DRIVERS

FRICTION BOLT DRIVER	Connection	Size	Diameter D	Diameter d	Length, L	Part Number	Compatibility
	H22x108	33mm	27.5mm	21mm	338mm	THU-TOOL-SSDRIVER-H22/33	7979-2221
	H22x108	39mm	32.5mm	26mm	318mm	THU-TOOL-SSDRIVER-H22/39	7979-2226
	T38	39mm	32.5mm	26mm	174mm	THU-TOOL-SSDRIVER-T38/39	7979-2626
	T38	46mm	36.5mm	30mm	174mm	THU-TOOL-SSDRIVER-T38/46	7979-2630
	R38	39mm	32.5mm	26mm	174mm	THU-TOOL-SSDRIVER-R38/39	7979-4526
	R38	46mm	36.5mm	30mm	174mm	THU-TOOL-SSDRIVER-R38/39	7979-4530

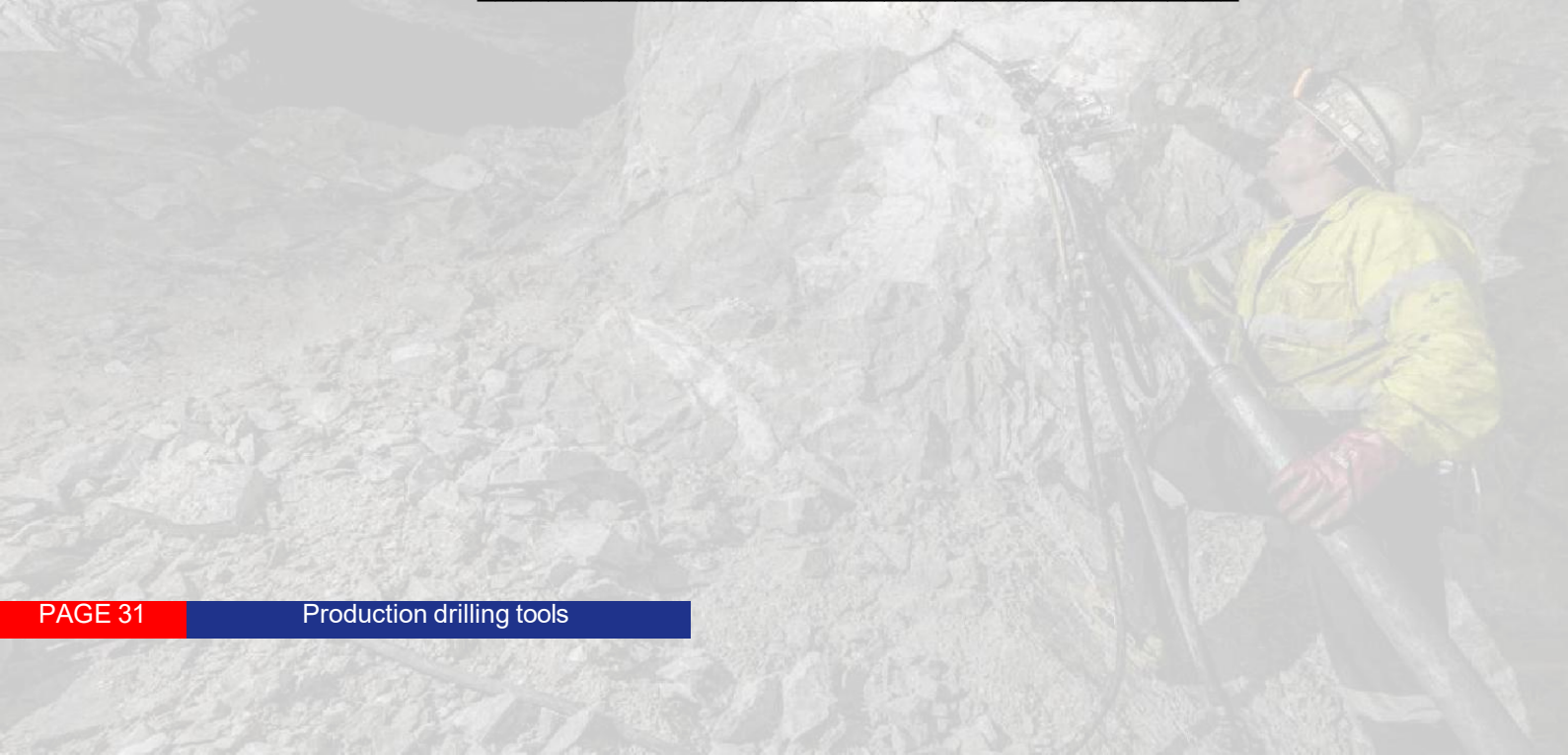




Air-Leg and Hand-Held Rock Drills

•-Air-Leg Rock Drills _____ PAGE 32

•-Hand-Held Rock Drills _____ PAGE 36



Air-leg Rock Drills

Black Diamond Drilling manufactures and supplies world class Air Leg Rock Drills. Using the latest manufacturing equipment and techniques ensures that our products are high strength and wear resistant. The result is an efficient and cost-effective drilling solution.

BD-YT28 Air-Leg Rock Drill

Product Information

The BD-YT28 Air Leg Rock Drill is a product that adopts all the latest design technology. It is an efficient, energy saving rock drill.

The BD-YT28 Air Leg rock drill has lower noise, higher durability, faster speeds and a lower failure rate than other comparable drills.



Features Include

- Centralised operating system, flexible startup, combination of pneumatics and water, ease of use and straightforward maintenance procedures.
 - Low noise, low vibration, energy efficient, high durability and reliability.
 - A clear oiler reservoir enables easy oil level observation.

BD-YT28 Air Leg Rock Drill Parameters

Parameter	Imperial	Metric
Shank (hex x Length)	7/8" x 4 1/4"	22mm x 108mm
Weight	≈57lb	≈26kg
Length	2' 2"	659mm
Cylinder Diameter	Φ 3 9/64"	Φ 80mm
Piston Stroke	2 23/64"	60mm
Air Consumption	≤ 14.5 gal/s	≤ 55 l/s
Impact Frequency	≥ 35 Hz	≥ 35 Hz
Impact Strength	≥ 46.4 ftlb	≥ 63 J
Drilling Speed	≥ 15 3/4 inch/min	≥ 400mm/min
Drilling Diameter	Φ 1 11/32" ~ 1 25/32"	Φ 34~45mm
Drilling Depth	16' 4 27/32"	5m

BD-YT29A Air-Leg Rock Drill



Product Information

The BD-YT29A Air Leg Rock Drill is a product that adopts all the latest design technology. It is an efficient, energy saving rock drill. The BD-YT29A Air Leg rock drill has lower noise, higher durability, faster speeds and a lower failure rate than other comparable drills.

Features Include

- Centralised operating system, flexible startup, combination of pneumatics and water, ease of use and straightforward maintenance procedures.
- Excellent ability in washing blast holes. A clear oiler reservoir enables easy oil level observation.

Scope of Application

The BD-YT29A Air Leg Rock Drill is suitable for horizontal drilling or sloping blast hole in solid hard rock as well as vertical bolt holes in the roof. Diameter of blast holes is 35-45mm and the effective depth of the hole can reach 5m.

BD-YT29A Air Leg Rock Drill Parameters

Parameter	Imperial	Metric
Shank (hex x Length)	7/8" x 4 1/4"	22mm x 108mm
Weight	≈60lb	≈27kg
Length	2' 2"	659mm
Cylinder Diameter	Φ 3 7/32"	Φ 82mm
Piston Stroke	2 23/64"	60mm
Air Consumption	≤ 17 gal/s	≤ 65 l/s
Impact Frequency	≥ 37 Hz	≥ 37 Hz
Impact Strength	≥ 51 ftlb	≥ 69 J
Drilling Speed	≥ 18 11/16 inch/min	≥ 475mm/min
Drilling Diameter	Φ 1 3/8 ~ 1 25/32"	Φ 35~45mm
Drilling Depth	16' 4 27/32"	5m

BD-YT24 Air-Leg Rock Drill



Product Information

The BD-YT24 Air Leg Rock Drill is a product that adopts all the latest design technology.

It is an efficient, energy saving rock drill.

The BD-YT24 Air Leg rock drill has lower noise, higher durability, faster speeds and a lower failure rate than other comparable drills.

Features Include

- Centralised operating system, flexible startup, combination of pneumatics and water, ease of use and straightforward maintenance procedures.
- Excellent ability in washing blast holes. A clear oiler reservoir enables easy oil level observation.

Scope of Application

The BD-YT24 Air Leg Rock Drill is suitable for horizontal drilling or sloping blast hole in medium hard or solid hard rock.

BD-YT24 Air Leg Rock Drill Parameters

Parameter	Imperial	Metric
Shank (hex x Length)	7/8" x 4 1/4"	22mm x 108mm
Weight	≈53lb	≈24kg
Length	2' 2 9/16"	675mm
Cylinder Diameter	Φ 2 3/4"	Φ 70mm
Piston Stroke	2 3/4"	70mm
Air Consumption	≤ 14 gal/s	≤ 53 l/s
Impact Frequency	≥ 29 Hz	≥ 29 Hz
Impact Strength	≥ 42 ftlb	≥ 58 J
Drilling Speed	≥ 14 3/16 inch/min	≥ 360mm/min
Drilling Diameter	Φ 1 11/32 ~ 1 21/32"	Φ 34~42mm
Drilling Depth	16' 4 27/32"	5m

BD-YT23 Air-Leg Rock Drill



Product Information

The BD-YT23 Air Leg Rock Drill is a product that adopts all the latest design technology. Including combination of pneumatics and water, rapid telescopic air leg and pressure regulation. It is an efficient, energy saving rock drill. The BD-YT24 Air Leg rock drill has lower noise, higher durability, faster speeds and a lower failure rate than other comparable drills.

Features Include

- Centralised operating system, flexible startup, combination of pneumatics and water, ease of use and straightforward maintenance procedures.
- Excellent ability in washing blast holes. A clear oiler reservoir enables easy oil level observation.

Scope of Application

The BD-YT23 Air Leg Rock Drill is mainly used in underground coal mining and earthworks. It can be used to drill horizontal or sloping blast holes on medium and hard stone and bolt holes on the roof. The diameter of blast holes is 34-42mm and the effective depth of 5m.

BD-YT23 Air Leg Rock Drill Parameters

Parameter	Imperial	Metric
Shank (hex x Length)	7/8" x 4 1/4"	22mm x 108mm
Weight	≈53lb	≈24kg
Length	2' 23/32"	628mm
Cylinder Diameter	Φ 3"	Φ 76mm
Piston Stroke	2 5/32"	55mm
Air Consumption	≤ 14 gal/s	≤ 54 l/s
Impact Frequency	≥ 36 Hz	≥ 36 Hz
Impact Strength	≥ 42 ftlb	≥ 59 J
Drilling Speed	≥ 13 3/8 inch/min	≥ 340mm/min
Drilling Diameter	Φ 1 11/32 ~ 1 21/32"	Φ 34~42mm
Drilling Depth	16' 4 27/32"	5m

Hand-held Rock Drills

Black Diamond Drilling manufactures and supplies world class Hand-held Rock Drills. Using the latest manufacturing equipment and techniques ensures that our products are high strength and wear resistant. The result is an efficient and cost-effective drilling solution.

BD-YO18 Hand-held Rock Drill

Product Information

The BD-YO18 Hand-Held Rock Drill is suitable for dry drilling. It is predominantly used in drilling split holes and breaking holes on quarry and underground mine site applications. It can also be used for horizontal drilling and sloping blast hole works.

Features Include

Light weight, low air consumption, efficient to run and easy to operate. The BD-YO18 is the lightest hand-held rock drill in our range.



BD-YO18 Hand-held Rock Drill Parameters

Parameter	Imperial	Metric
Shank (hex x Length)	7/8" x 4 1/4"	22mm x 108mm
Weight	≈40lb	≈18kg
Length	1' 9 11/16"	550mm
Cylinder Diameter	Φ 2 9/32"	Φ 58mm
Piston Stroke	1 31/32"	50mm
Air Consumption	≤ 6 gal/s	≤ 23 l/s
Air Pressure	0.4~0.5 MPa	0.4~0.5 MPa
Impact Frequency	≤ 23 Hz	≤ 23 Hz
Drilling Speed	≥ 4 23/32 inch/min	≥ 120mm/min
Drilling Diameter	Φ 1 11/32" ~ 1 21/32"	Φ 34~42mm
Drilling Depth	5' – 6' 6"	1.5-2m

BD-YO20 Hand-held Rock Drill

Product Information

The BD-YO20 Hand-Held Rock Drill is suitable for dry drilling. It is predominantly used in drilling split holes and breaking holes on quarry and underground mine site applications. It can also be used for horizontal drilling and sloping blast hole works.

Features Include

Light weight, low air consumption, efficient to run and easy to operate.



BD-YO20 Hand-held Rock Drill Parameters

Parameter	Imperial	Metric
Shank (hex x Length)	7/8" x 4 1/4"	22mm x 108mm
Weight	≈45lb	≈20.5kg
Length	1' 10"	550mm
Cylinder Diameter	Φ 2 31/64"	Φ 63mm
Piston Stroke	2 11/64"	55mm
Air Consumption	≤ 6 gal/s	≤ 23 l/s
Air Pressure	0.4~0.5 MPa	0.4~0.5 MPa
Impact Frequency	≤ 33 Hz	≤ 33 Hz
Drilling Speed	≥ 5 29/32 inch/min	≥ 120mm/min
Drilling Diameter	Φ 1 11/32" ~ 1 21/32"	Φ 34~42mm
Drilling Depth	9' 10 7/64"	3m

BD-Y24 Hand-held Rock Drill

Product Information

The BD-Y24 Hand-Held Rock Drill is suitable for dry drilling. It is predominantly used in drilling split holes and breaking holes on quarry and underground mine site applications. It can also be used for horizontal drilling and sloping blast hole works.



Features Include

Light weight, low air consumption, efficient to run and easy to operate. The BD-Y24 Hand Held Rock Drill is a mid range drill that is suitable for most applications.

BD-Y24 Hand-held Rock Drill Parameters

Parameter	Imperial	Metric
Shank (hex x Length)	7/8" x 4 1/4"	22mm x 108mm
Weight	≈50lb	≈23kg
Length	1' 11 13/16"	605mm
Cylinder Diameter	Φ 2 3/4"	Φ 70mm
Piston Stroke	2 3/4"	70mm
Air Consumption	≤ 12 gal/s	≤ 50 l/s
Air Pressure	0.4~0.63 MPa	0.4~0.63 MPa
Impact Frequency	≤ 28 Hz	≤ 28 Hz
Drilling Speed	≥ 12 19/32 inch/min	≥ 320mm/min
Drilling Diameter	Φ 1 11/32" ~ 1 21/32"	Φ 34~42mm
Drilling Depth	16' 4 55/64"	5m

BD-Y28 Hand-held Rock Drill



Product Information

The BD-Y28 Hand-Held Rock Drill is suitable for dry drilling. It is predominantly used in drilling split holes and breaking holes on quarry and underground mine site applications. It can also be used for horizontal drilling and sloping blast hole works.

Features Include

Light weight, low air consumption, efficient to run and easy to operate. The BD-Y28 Hand Held Rock Drill is the most powerful hand-held drill that is suitable for heavier applications.

BD-Y28 Hand-held Rock Drill Parameters

Parameter	Imperial	Metric
Shank (hex x Length)	7/8" x 4 1/4"	22mm x 108mm
Weight	≈55lb	≈23kg
Length	2' 2"	659mm
Cylinder Diameter	Φ 3 9/64"	Φ 80mm
Piston Stroke	2 23/64"	60mm
Air Consumption	≤ 14.5 gal/s	≤ 55 l/s
Air Pressure	0.4~0.63 MPa	0.4~0.63 MPa
Impact Frequency	≤ 35 Hz	≤ 35 Hz
Drilling Speed	≥ 15 3/4 inch/min	≥ 400mm/min
Drilling Diameter	Φ 1 11/32" ~ 1 49/64"	Φ 34~45mm
Drilling Depth	16' 4 55/64"	5m

Black Diamond Drilling can custom manufacture equipment to suit your drilling needs.

Please contact one of our representatives to discuss your equipment needs.



BD Drill

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