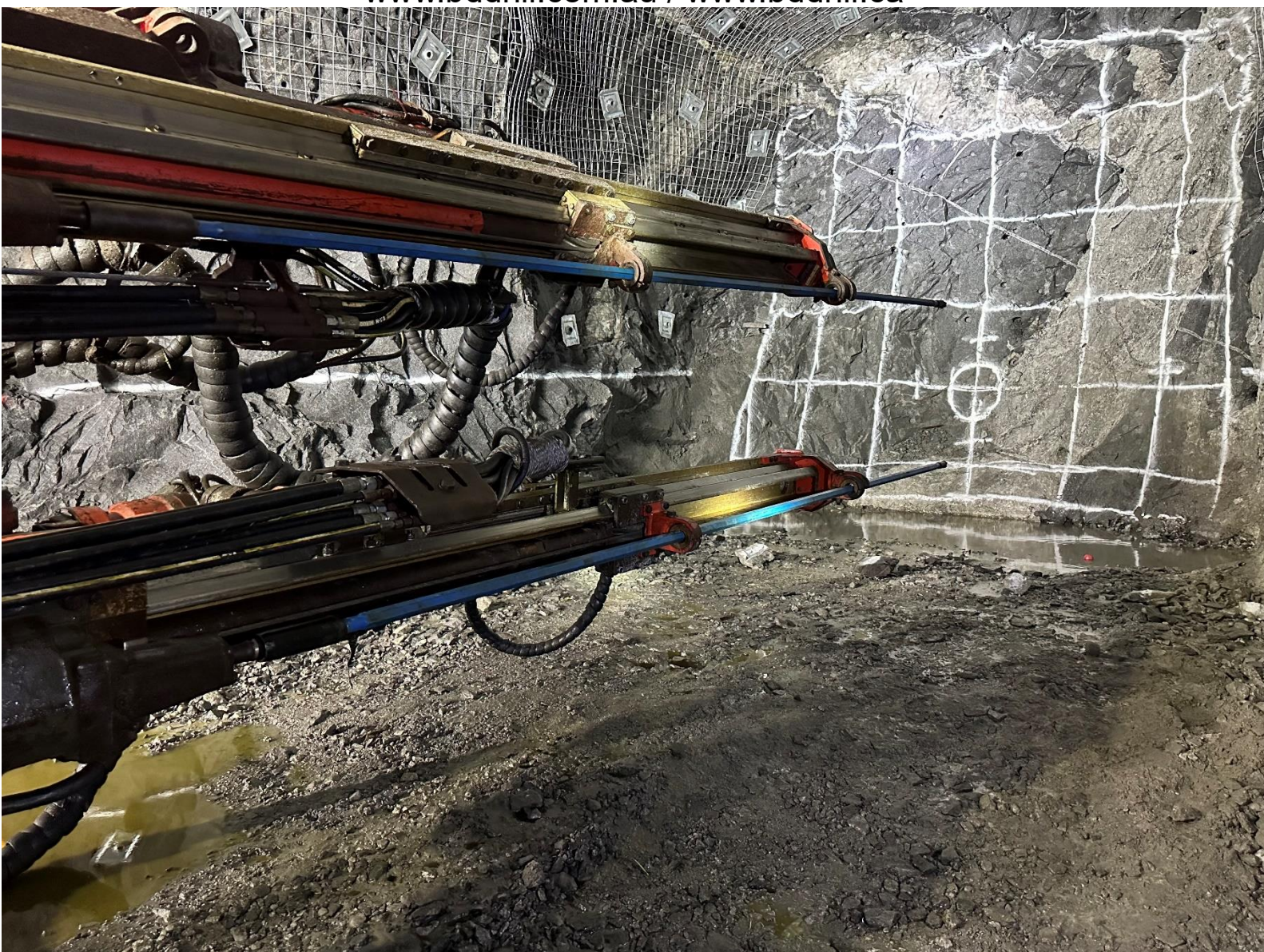


# **BD Drill**

## ***Underground Development Drilling Tools***

[www.bddrill.com.au](http://www.bddrill.com.au) / [www.bddrill.ca](http://www.bddrill.ca)



# ABOUT US

## Black Diamond Drilling Services Australia Pty Ltd



**WA Headquarters:** 52 Distinction Road, Wangara WA 6065  
**Tel:** +61-08-6365-6550 **Email:** sales@bdrill.com.au **Web:** www.bdrill.com.au  
**Kalgoorlie Branch:** 2 Brooks Way, Kalgoorlie, WA, 6430  
**Tel:** +61-08-9021-8478 **Email:** admin@gf@bdrill.com.au **Web:** www.bdrillgf.com.au

## Black Diamond Drilling Tools Canada Inc.



**Sudbury Headquarters:** 1899 Lassalle Blvd, unit 6, Sudbury, On, Canada, P3A-2A3  
**Tel:** +1-705-560-5888 **Email:** sales@bdrill.ca **Web:** www.bdrill.ca

## Black Diamond Drilling Tools USA LLC.



**New Hampshire Headquarters:** 131 Daniel Webster Hwy, #426 Nashua, NH 03060  
**Tel:** +1-978-319-8000 **Email:** sales@bdrill.us **Web:** www.bdrill.us

## Black Diamond Drilling Mongolia LLC.




**Ulan Bator Headquarters:** No 206, Second Floor, Arig Center Jamyen Gun Street,  
1<sup>st</sup> Khoroo, Sukhbaatar District, Ulaanbaatar, Mongolia  
**Tel:** +976-99623888 **Email:** sales@bdrilling.mn

**1000**  
EMPLOYEES



**300,000**  
M<sup>2</sup> 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.)

# 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.

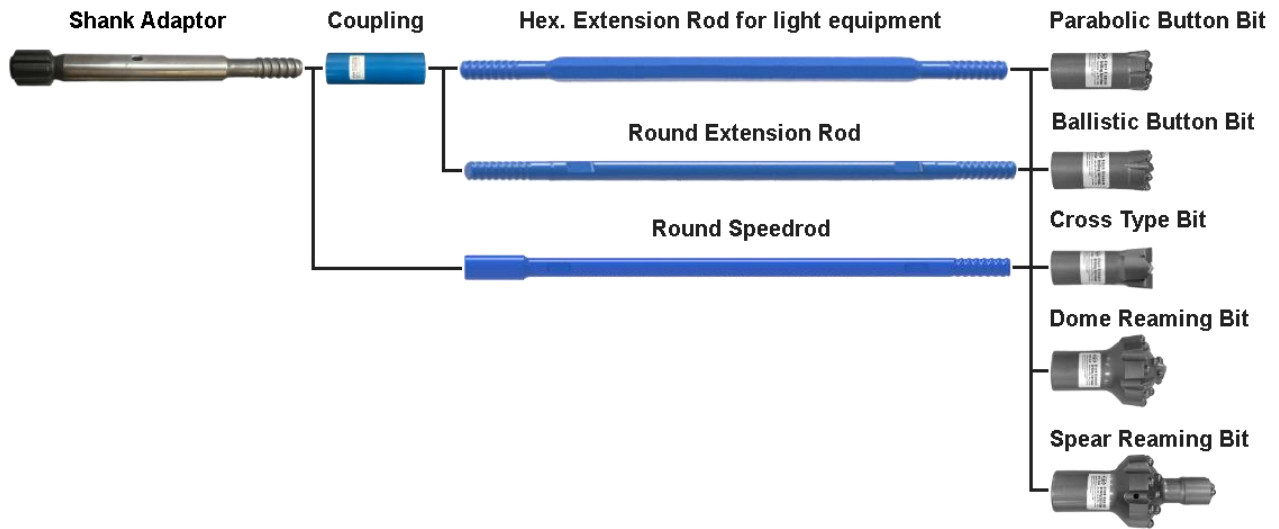
Safe work procedures should incorporate inspection before the machine operates and also through regular monitoring based upon mining conditions, safety and management systems. Workers should be provided with safety information, instruction and training on transportation, installation, operational care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

## MAKE A RISK ANALYSIS BEFORE YOU START

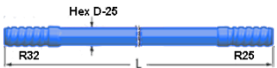
Pay attention to safety when planning all of your work. Before you start, always take your time to go through all operations. Identify any potential risks and take appropriate measures to avoid them. If necessary, seek expert advice on how to help minimize risks. Finally, make sure that you have the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

Please check [www.safeworkaustralia.gov.au](http://www.safeworkaustralia.gov.au) or [www.canada.ca/en/services/jobs/workplace/health-safety.html](http://www.canada.ca/en/services/jobs/workplace/health-safety.html) for more information.

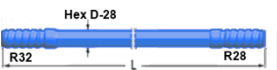
## DEVELOPMENT DRILL STRING



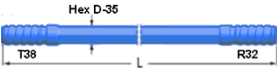
## DRIFTER RODS R32 – Hex 25 - R25

| 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  |

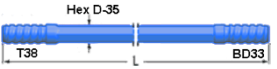
## DRIFTER RODS R32 – Hex 28 – R28

| 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  |

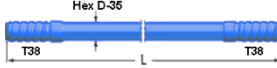
## DRIFTER RODS T38 – Hex 35 – R32

| 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  |

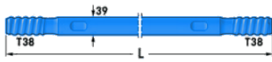
## DRIFTER RODS T38 – Hex 35 – BD35

| 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 – 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 |


## 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 |





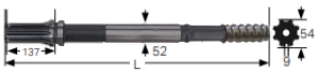
## MF SPEED RODS T38 – Round 39 – T38

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

## SHANK ADAPTORS

| SHANK ADAPTOR   | Drifter Model     | Thread | Length, L | Part Number        | Compatibility |
|---|-------------------|--------|-----------|--------------------|---------------|
|  | HLX5/RDX5         | T38    | 500mm     | THU-SHANK-500-T38  | 7304-7585-01  |
|   | HLX5/RDX5         | T45    | 500mm     | THU-SHANK-500-T45  | 7804-7585-01  |
|  | RD520/525         | T38    | 525mm     | THU-SHANK-525-T38  | 7304-7669-01  |
|   | RD520/525         | T45    | 525mm     | THU-SHANK-525-T45  | 7305-7669-01  |
|  | COP MD20          | T38    | 470mm     | THU-SHANK-470-T38  | 7304-3685-01  |
|   | COP MD20          | T38    | 560mm     | THU-SHANK-560-T38  | 7304-3687-01  |
|  | COP 1838+         | T38    | 525mm     | THU-SHANK-525-T38C | 7304-3655-01  |
|   | COP 1838+         | T45    | 525mm     | THU-SHANK-525-T45C | 7305-3655-01  |
|  | COP 1838MUX+/HUX+ | T38    | 730mm     | THU-SHANK-730-T38  | 7304-3663-01  |
|   | COP 1838MUX+/HUX+ | T45    | 730mm     | THU-SHANK-730-T45  | 7305-3663-01  |

## COUPLING SLEEVES


| COUPLING SLEEVES  | Threads |      | Dimensions |        |             |        | Part Number       | Compatibility |
|---|---------|------|------------|--------|-------------|--------|-------------------|---------------|
|   |         |      | Length, L  |        | Diameter, D |        |                   |               |
|   |         |      | Imperial   | Metric | Imperial    | Metric |                   |               |
|  | T38     | R32  | 10 41/64"  | 270mm  | 2 1/4"      | 45mm   | THU-T38-R32-190   | 7334-3301     |
|   | T38     | TR35 | 7 1/2"     | 190mm  | 2 5/32"     | 55mm   | THU-T38-TR35-190  | -             |
|   | T38     | T38  | 7 1/2"     | 190mm  | 2 5/32"     | 55mm   | THU-T38-55-190-23 | -             |
|   | T45     | R32  | 7 1/2"     | 190mm  | 2 13/32"    | 61mm   | THU-T45-R32-190   | -             |
|   | T45     | T38  | 8 43/64"   | 180mm  | 2 13/32"    | 61mm   | THU-T45-T38-180   | 7314-6261     |
|   | T45     | T45  | 8 1/4"     | 210mm  | 2 33/64"    | 63mm   | THU-T45-63-210-23 | 7315-3663     |




# DEVELOPMENT DRILLING BITS



## 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        | 45°    |               |                |
|      | 1x4  | 1x6           | 2x7           | 5x9           | 30°   | 1 3/8"     | 35mm   | THU-N35FF-R25 | 7732-4435-S48  |
|      | 1x5  | 1x6           | 2x7           | 5x9           | 30°   | 1 7/16"    | 37mm   | THU-N37FF-R25 | 7732-4437C-S48 |
|      | 1x6  | 1x6           | 2x7           | 5x9           | 35°   | 1 1/2"     | 38mm   | THU-N38FF-R25 | 7732-5238-R48  |
|      | 1x6  | 1x6           | 2x8           | 5x9           | 35°   | 1 5/8"     | 41mm   | THU-N41FF-R25 | 7732-5241-S48  |

## 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           | 1x6           | 2x7           |       | 5x9        | 30°    |                |               |
|      | 1x6  | 1x6           | 2x7           | 5x9           | 35°   | 1 1/2"     | 38mm   | THU-N38FF-R28  | 7739-5238-R48 |
|      | 1x6  | 1x6           | 2x7           | 5x9           | 35°   | 1 1/2"     | 38mm   | THU-N38FF-R28B | 7739-5238-S48 |
|      | 1x6  | 1x6           | 2x7           | 5x9           | 35°   | 1 1/2"     | 38mm   | THU-N38FF-R28C | 7739-5238-S70 |
|      | 1x6  | 1x6           | 2x8           | 5x9           | 35°   | 1 1/2"     | 38mm   | THU-N38FF-R28D | 7739-5238-S80 |
|      | 1x6  | 1x6           | 2x8           | 5x9           | 35°   | 1 5/8"     | 41mm   | THU-N41FF-R28  | 7739-5241-S48 |











# 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 |                          |                |
| <b>Ballistic Button Bit</b>   |   |               |               |               |         |            |        |                          |                |
|    | 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  |
| <b>Parabolic Button Bit</b>   |   |               |               |               |         |            |        |                          |                |
|    | 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   |
| <b>Dome Reaming Bit</b>   |   |               |               |               |         |            |        |                          |                |
|  | 3x6   | 1x6           | 1x13          | 14x13         | 35°     | 4"         | 102mm  | THU-HO-102-R32           | -              |
|   | 3x6   | 1x6           | 1x13          | 18x13         | 35°     | 5"         | 127mm  | THU-HO-127-R32           | -              |
| <b>Spear Reaming Bit</b>  |   |               |               |               |         |            |        |                          |                |
|  | 3x6   | 1x6           | 3x10          | 12x13         | 35°     | 4"         | 102mm  | THU-HO-102/41-R32        | 7733-5602P-S48 |
|   | 3x7   | 1x6           | 3x10          | 16x13         | 35°     | 5"         | 127mm  | THU-HO-127/41-R32        | 7733-5627P-S48 |
| <b>Two Piece Reamer Pilot Bit</b>   |   |               |               |               |         |            |        |                          |                |
|  | -   | -             | -             | -             | 12°     | 1 9/16"    | 40mm   | THU-REAMER-PILOT-R32/12D | 90516258       |
| <b>Two Piece Reaming Bit</b>  |   |               |               |               |         |            |        |                          |                |
|  | -   | -             | 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 |                           |
| <b>Ballistic Button bit</b>   |                   |               |               |               |         |            |        |                           |
|    | 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          |
| <b>Parabolic Button bit</b>   |                   |               |               |               |         |            |        |                           |
|    | 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             |
| <b>Dome Reaming Bit</b>   |                   |               |               |               |         |            |        |                           |
|  | 3x6               | 1x6           | 1x13          | 14x13         | 35°     | 4"         | 102mm  | THU-HO-102-BD33           |
|   | 3x6               | 1x6           | 1x13          | 18x13         | 35°     | 5"         | 127mm  | THU-HO-127-BD33           |
| <b>Spear Reaming Bit</b>  |                   |               |               |               |         |            |        |                           |
|  | 3x6               | 1x6           | 3x10          | 12x13         | 35°     | 4"         | 102mm  | THU-HO-102/41-BD33        |
|   | 3x7               | 1x6           | 3x10          | 16x13         | 35°     | 5"         | 127mm  | THU-HO-127/41-BD33        |
| <b>Two Piece Reamer Pilot Bit</b>   |                   |               |               |               |         |            |        |                           |
|  | -                 | -             | -             | -             | 12°     | 1 9/16"    | 40mm   | THU-REAMER-PILOT-BD33/12D |
| <b>Two Piece Reaming Bit</b>  |                   |               |               |               |         |            |        |                           |
|  | -                 | -             | 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 |                           |
| <b>Ballistic Button bit</b>   |                   |               |               |               |         |            |        |                           |
|    | 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          |
| <b>Parabolic Button bit</b>   |                   |               |               |               |         |            |        |                           |
|    | 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             |
| <b>Dome Reaming Bit</b>   |                   |               |               |               |         |            |        |                           |
|  | 3x6               | 1x6           | 1x13          | 14x13         | 35°     | 4"         | 102mm  | THU-HO-102-BD35           |
|   | 3x6               | 1x6           | 1x13          | 18x13         | 35°     | 5"         | 127mm  | THU-HO-127-BD35           |
| <b>Spear Reaming Bit</b>  |                   |               |               |               |         |            |        |                           |
|  | 3x6               | 1x6           | 3x10          | 12x13         | 35°     | 4"         | 102mm  | THU-HO-102/41-BD35        |
|   | 3x7               | 1x6           | 3x10          | 16x13         | 35°     | 5"         | 127mm  | THU-HO-127/41-BD35        |
| <b>Two Piece Reamer Pilot Bit</b>   |                   |               |               |               |         |            |        |                           |
|  | -                 | -             | -             | -             | 12°     | 1 9/16"    | 40mm   | THU-REAMER-PILOT-BD35/12D |
| <b>Two Piece Reaming Bit</b>  |                   |               |               |               |         |            |        |                           |
|  | -                 | -             | 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  |

# 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 |                   |
| <b>Ballistic Button bit</b>   |                   |               |               |               |         |            |        |                   |
|    | 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   |
| <b>Parabolic Button bit</b>   |                   |               |               |               |         |            |        |                   |
|    | 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      |
| <b>Dome Reaming Bit</b>   |                   |               |               |               |         |            |        |                   |
|  | 3x6               | 1x6           | 1x13          | 14x13         | 35°     | 4"         | 102mm  | THU-HO-102-T38    |
|   | 3x6               | 1x6           | 1x13          | 18x13         | 35°     | 5"         | 127mm  | THU-HO-127-T38    |
| <b>Spear Reaming Bit</b>  |                   |               |               |               |         |            |        |                   |
|  | 3x6               | 1x6           | 3x10          | 12x13         | 35°     | 4"         | 102mm  | THU-HO-102/41-T38 |
|   | 3x7               | 1x6           | 3x10          | 16x13         | 35°     | 5"         | 127mm  | THU-HO-127/41-T38 |

# SPLIT SET DRIVING TOOLS

## SPLIT SET 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-MF-500 | 7324-4709C-20 |
|   | 1 1/2"   | 39mm   | 3'        | 915mm  | THU-DBAR-T38/R39/T38-MF-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 | -             |

## SPLIT SET DRIVERS

| SPLIT SET DRIVER  | Connection | Set 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     |



Black Diamond Drilling can custom manufacture equipment to suit your drilling needs.  
Please contact one of our representatives to discuss your equipment requirements.



**BD Drill**

## Black Diamond Drilling Services Australia Pty Ltd



**WA Headquarters:** 52 Distinction Road, Wangara WA 6065

**Tel:** +61-08-6365-6550 **Email:** sales@bddrill.com.au **Web:** www.bddrill.com.au

**Kalgoorlie Branch:** 2 Brooks Way, Kalgoorlie, WA, 6430

**Tel:** +61-08-9021-8478 **Email:** admingf@bddrill.com.au **Web:** www.bddrillgf.com.au

## Black Diamond Drilling Tools Canada Inc.



**Sudbury Headquarters:** 1899 Lassalle Blvd, unit 6, Sudbury, On, Canada, P3A-2A3

**Tel:** +1-705-560-5888 **Email:** sales@bddrill.ca **Web:** www.bddrill.ca

## Black Diamond Drilling Tools USA LLC.



**New Hampshire Headquarters:** 131 Daniel Webster Hwy, #426 Nashua, NH 03060

**Tel:** +1-978-319-8000 **Email:** sales@bddrill.us **Web:** www.bddrill.us

## Black Diamond Drilling Mongolia LLC.



**Ulan Bator Headquarters:** No 206, Second Floor, Arig Center Jamyan Gun Street,  
1<sup>st</sup> Khoroo, Sukhbaatar District, Ulaanbaatar, Mongolia

**Tel:** +976-99623888 **Email:** sales@bddrilling.mn

### Version 2

© Black Diamond Drilling Services Australia Pty. Ltd. 2024

Legal Notice: All trademarks and logos appearing in this material are owned by BDDrill Group of companies, unless specifically indicated.