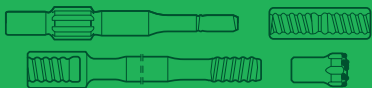
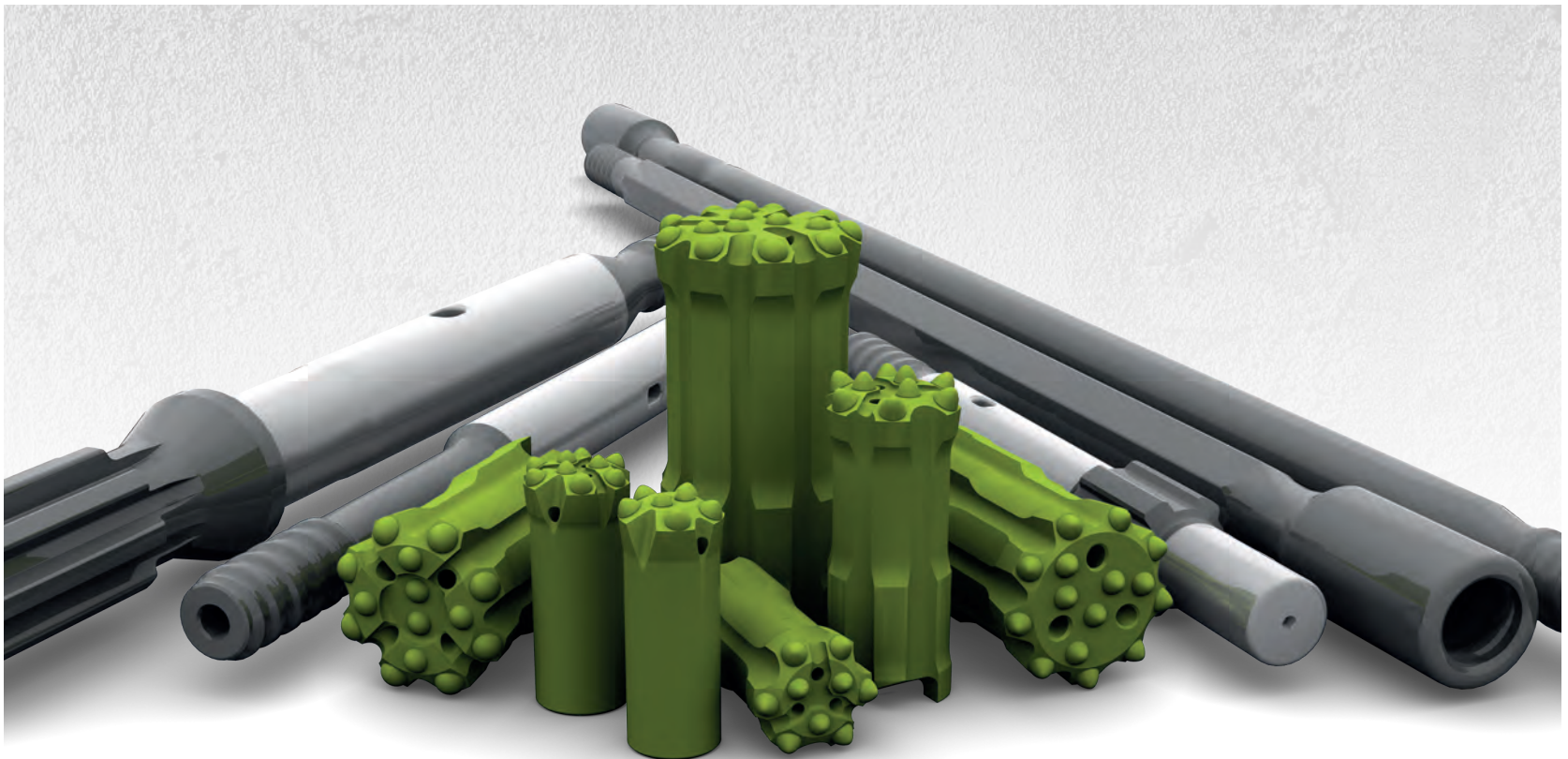


Rock Drilling Equipment

**P&V**

Padley & Venables



**ROCK DRILLING  
TOOLS**



**DEMOLITION  
TOOLS**



**CONTRACTORS'  
TOOLS**

**QUALITY TOOLS  
MADE IN BRITAIN  
PROVEN WORLDWIDE**



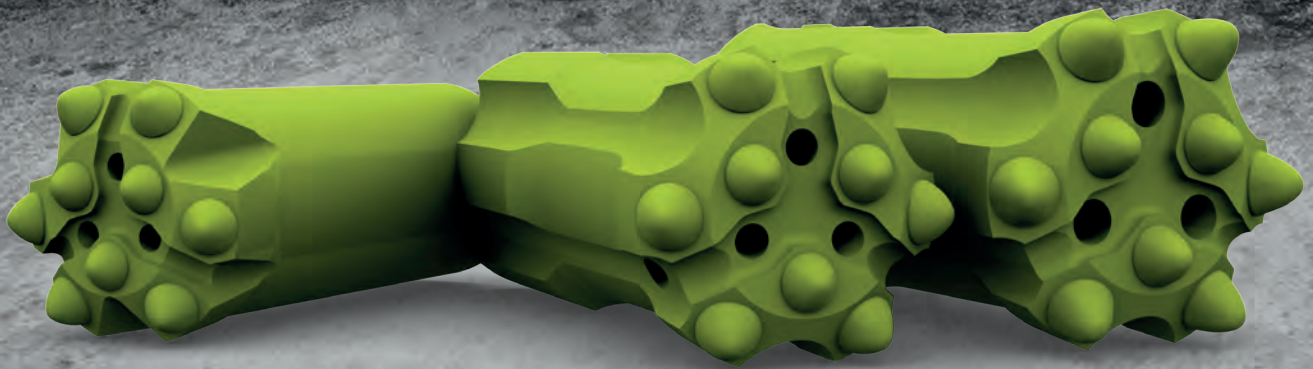
[sales@padley-venables.com](mailto:sales@padley-venables.com)

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# P&V PRESENT THE NINJA BUTTON BIT!



**P&V**  
Padley & Venables



**NINJA**®  
**BUTTON BITS**  
by Padley & Venables

**THE PERFECT ALL ROUND BIT, SUITABLE  
FOR MOST HARD ROCK, TOP HAMMER  
DRILLING APPLICATIONS AVAILABLE IN  
BIT SIZES RANGING FROM 48 TO 64MM.**



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# TECHNICAL INFORMATION

FOR HELP IN FINDING THE RIGHT PRODUCT FOR YOU, CALL +44-1246-299100

## Choosing the right Bit

Many factors go into choosing the correct Bit for your ground conditions and drilling practices. Production demands have changed in the drilling industry over the past twenty years, most of the pneumatic hammers have been replaced by the harder hitting, faster drilling hydraulic hammers. We are constantly improving our manufacturing practices to produce Bits that offer optimum performance when used with the latest machines. Drawing on our experience in the Rock Drilling Industry we can suggest the best products in various styles and configurations for your particular rock drilling application.

The main design categories will be as follows:

### Cross Flush

Catalogue reference group "10" intended for use in softer rock conditions. Maximum diameter available with this design is 51mm.

### Ninja/Grooved Face

For use in general drilling applications. Catalogue reference group "30" for standard design. Catalogue reference group "32" for Retractable version.

### Heavy Duty (Flat Face)

For use in hard to very hard rock formations. Catalogue reference group "20" for standard design. Catalogue reference group "22" for Retractable version.

### Drop Centre

For use in medium to hard rock applications where a straight hole is paramount. Catalogue reference group "40" for standard design. Catalogue reference group "42" for Retractable version.

### Retractable Body

Retractable Body is available on Flat Face, Grooved Face and Drop Centre Bit diameters of  $\phi 51$ mm upwards. The Retractable design helps drill straighter holes and facilitates Bit removal from the hole.

## Choosing the right Carbide

The larger the volume of the Carbide, the more aggressive the Bit. The more aggressive Carbides assist movement of the chips away from the face as there is more room for airflow on the face of the Bit. These more aggressive Bits help to break out larger chips, which increases the penetration rate. The greater volume of Carbide can lead to longer Bit life.

### Spherical



Spherical Carbides for use in medium to hard rock, with fractured or seamy applications.

### Paraboloid



Semi-ballistic shaped, more aggressive than the Spherical Carbides, for soft to medium consistent rock.

### Ballistic



Bullet shaped, very aggressive fast penetration in soft to medium consistent rock.

## Catalogue Numbers

The main part of the P&V catalogue number is explained as follows: e.g. 4732, where 47 = Button Bit and 32 = R32 thread, followed by 2045, where 20 = Heavy Duty Flat Face and 45 is the Bit diameter in millimetres.

The Button type is determined by a letter at the end of the catalogue reference, where S = Spherical inserts, P = Paraboloid inserts and B = Ballistic inserts, e.g. 4732- 2045S.

# WARRANTY INFORMATION

## WARRANTY

---

Padley & Venables' tools are guaranteed against defects in raw material and manufacture. No other warranty is implied or expressed.

The Company's liability in respect of any warranty claim is limited to replacement and does not extend to any other expenditure incurred or to any consequential damage. Warranty claims are subject to immediate notification of any problems and return of the goods to P&V under their Returned Goods System.

Operators' attention is drawn to the requirement to select the correct tool and machine for the specific type of application required. When the correct P&V tool is used for its appropriate application and is used in the proper manner for which it is designed and operated within a correctly maintained machine, risks to the safety and health of operators will be avoided.

This Rock Drilling Equipment catalogue was produced in February 2015. E&OE.

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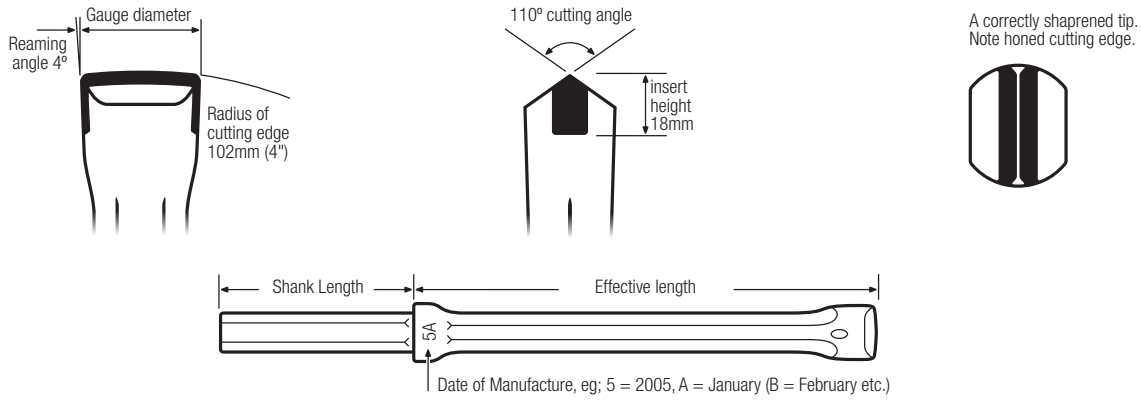


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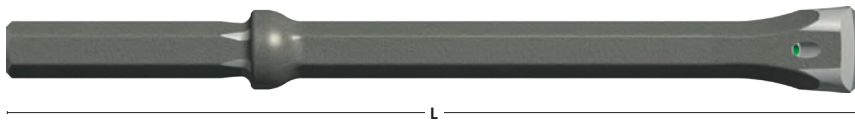
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# INTEGRAL DRILL STEELS

## NOMENCLATURE OF DRILL STEELS



## 108 x 22mm (4 1/4" x 7/8") SHANK - 22mm HEX BODY

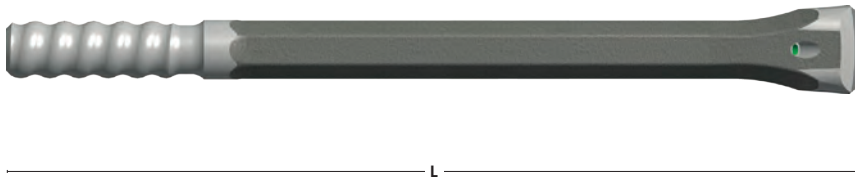


LENGTH (L)	CAT. NUMBER
<b>SERIES 11</b>	
800mm (2' 7") x 34mm HEAD	5324-0834
1600mm (5' 3") x 33mm HEAD	5324-1633
2400mm (7' 10") x 32mm HEAD	5324-2432
3200mm (10' 6") x 31mm HEAD	5324-3231
4000mm (13' 1") x 30mm HEAD	5324-4030
4800mm (15' 9") x 29mm HEAD	5324-4829
5600mm (18' 4") x 28mm HEAD	5324-5628
<b>SERIES 12</b>	
800mm (2' 7") x 40mm HEAD	5324-0840
1600mm (5' 3") x 39mm HEAD	5324-1639
2400mm (7' 10") x 38mm HEAD	5324-2438
3200mm (10' 6") x 37mm HEAD	5324-3237
4000mm (13' 1") x 36mm HEAD	5324-4036
4800mm (15' 9") x 35mm HEAD	5324-4835
5600mm (18' 4") x 34mm HEAD	5324-5634
<b>SERIES 13</b>	
400mm (1' 4") x 34mm HEAD	5324-0434
800mm (2' 7") x 33mm HEAD	5324-0833
1200mm (3' 11") x 32mm HEAD	5324-1232
1600mm (5' 3") x 31mm HEAD	5324-1631
2000mm (6' 6") x 30mm HEAD	5324-2030
<b>SERIES 16</b>	
600mm (2' 0") x 35mm HEAD	5324-0635
1200mm (3' 11") x 34mm HEAD	5324-1234
1800mm (5' 11") x 33mm HEAD	5324-1833
2400mm (7' 10") x 32mm HEAD	5324-2432
<b>SERIES 17</b>	
600mm (2' 0") x 41mm HEAD	5324-0641
1200mm (3' 11") x 40mm HEAD	5324-1240
1800mm (5' 11") x 39mm HEAD	5324-1839
2400mm (7' 10") x 38mm HEAD	5324-2438

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# THREADED INTEGRAL DRILL STEELS

## R25 THREAD - 22mm HEX BODY



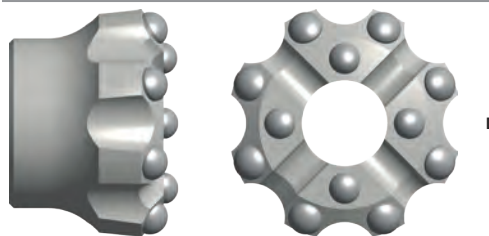
LENGTH (L)	CAT. NUMBER
1400mm x 27mm HEAD	5325-1427
1870mm x 27mm HEAD	5325-1927
2400mm x 27mm HEAD	5325-2427
2800mm x 28mm HEAD	5325-2828
3000mm x 28mm HEAD	5325-3028
1600mm x 32mm HEAD	5325-1632

## PILOT RODS 108 x 22mm (4 1/4" x 7/8") SHANK - 6° TAPER



LENGTH (L)	CAT. NUMBER
800mm x 26mm HEAD	5354-0826
1200mm x 26mm HEAD	5354-1226
2000mm x 26mm HEAD	5354-2026
2400mm x 26mm HEAD	5354-2426

## REAMING BITS (BUTTON) - 6° TAPER



DIAMETER (D)	CAT. NUMBER
64mm	4700-1364
76mm	4700-1376
89mm	4700-1389

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# TAPER DRIVE EQUIPMENT

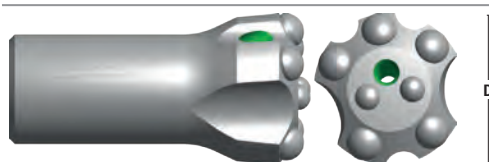
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## 22 X 7° TAPER EQUIPMENT - CROSS BITS



DIAMETER (D)	CAT. NUMBER
32mm (1¼")	4202-0332
35mm (1½")	4202-0335
38mm (1½")	4202-0338
41mm (1½")	4202-0341

## 22 X 7° TAPER EQUIPMENT - FLAT FACE BUTTON BITS



DIA (D) MM	GAUGE CARBIDES	FACE CARBIDES	FACE FLUSHING	SIDE FLUSHING	GAUGE ANGLE	CAT. NUMBER
32	5 x 8mm	2 x 6.5mm	1 x 5mm	2 x 5mm	30	4702-2032
35	5 x 9mm	2 x 6.5mm	1 x 5mm	2 x 5mm	30	4702-2035
38	5 x 9mm	2 x 6.5mm	1 x 5mm	2 x 5mm	30	4702-2038
41	5 x 10mm	2 x 8mm	1 x 6mm	2 x 6mm	30	4702-2041
43	5 x 10mm	2 x 8mm	1 x 6mm	2 x 6mm	30	4702-2043
45	5 x 11mm	2 x 9mm	1 x 6mm	2 x 6mm	30	4702-2045

## RODS 108 x 22mm (4¼" x 7/8") SHANK - 22mm HEX BODY



LENGTH (L)	CAT. NUMBER
600mm (2')	5034-0206
915mm (3')	5034-0209
1220mm (4')	5034-0212
1830mm (6')	5034-0218
2145mm (7')	5034-0221
2435mm (8')	5034-0224
3050mm (10')	5034-0231
3660mm (12')	5034-0236
4000mm (13' 1/4")	5034-0240



# TAPER DRIVE EQUIPMENT

## 22 X 12° TAPER EQUIPMENT - CROSS BITS



DIAMETER (D)	CAT. NUMBER
32mm (1¼")	4203-0332
35mm (1½")	4203-0335
38mm (1½")	4203-0338
41mm (1½")	4203-0341
45mm (1¾")	4203-0345
48mm (1¾")	4203-0348
51mm (2")	4203-0351

## 22 X 12° TAPER EQUIPMENT - FLAT FACE BUTTON BITS



DIA (D) MM	GAUGE CARBIDES	FACE CARBIDES	FACE FLUSHING	SIDE FLUSHING	GAUGE ANGLE	CAT. NUMBER
32	5 x 8mm	2 x 6.5mm	1 x 5mm	2 x 5mm	30	4703-2032
35	5 x 9mm	2 x 6.5mm	1 x 5mm	2 x 5mm	30	4703-2035
43	5 x 10mm	2 x 8mm	1 x 6mm	2 x 6mm	30	4703-2043
45	5 x 11mm	2 x 9mm	1 x 6mm	2 x 6mm	30	4703-2045

## RODS 108 x 22mm (4¼" x 7/8") SHANK - 22mm HEX BODY



LENGTH (L)	CAT. NUMBER
600mm (2')	5034-0306
915mm (3')	5034-0309
1220mm (4')	5034-0312
1600mm (5' 3")	5034-0316
1830mm (6')	5034-0318
2145mm (7')	5034-0321
2435mm (8')	5034-0324
3050mm (10')	5034-0331
3200mm (10' 6")	5034-0332
3660mm (12')	5034-0336
4000mm (13')	5034-0340
4800mm (15' 8")	5034-0348

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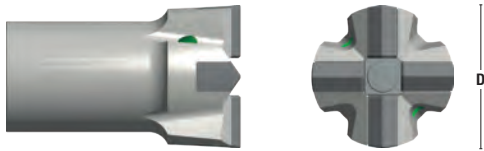
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# TUNNELLING AND DRIFTING

## R25 & R28 (1" & 1 1/8" ROPE THREAD)

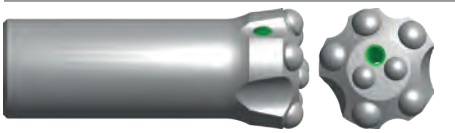
### CROSS BIT

	DIA (D) MM	CARBIDE WIDTH	CARBIDE HEIGHT	FACE FLUSHING	SIDE FLUSHING	GAUGE ANGLE	R25 CAT. NUMBER	R28 CAT. NUMBER
	35	8mm	11mm	1 x 5mm	4 x 5mm		4625-0835	N/A
	38	8mm	11mm	1 x 5mm	4 x 5mm		4625-0838	4628-0838
	41	8mm	14mm	1 x 5.5mm	4 x 5mm		4625-0841	4628-0841
	45	9mm	14mm	1 x 5.5mm	4 x 5mm		4625-0845	4628-0845
	48	9mm	14mm	1 x 5.5mm	4 x 5mm		N/A	4628-0848

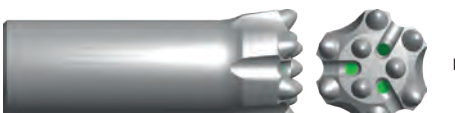
### CROSS FLUSH

	DIA (D) MM	GAUGE CARBIDES	FACE CARBIDES	FACE FLUSHING	SIDE FLUSHING	GAUGE ANGLE	R25 CAT. NUMBER	R28 CAT. NUMBER
	38	6 x 8mm	2 x 6.5mm	2 x 6mm	1 x 6mm	30	4725-1038	N/A
	41	6 x 8mm	2 x 8mm	2 x 6mm	1 x 6mm	30	4725-1041	N/A
	43	6 x 8mm	2 x 8mm	2 x 6mm	1 x 6mm	30	4725-1043	N/A
	45	6 x 9mm	2 x 8mm	2 x 6mm	1 x 6mm	30	4725-1045	N/A
	48	6 x 9mm	2 x 9mm	2 x 6mm	1 x 6mm	30	4725-1048	N/A
	51	6 x 10mm	2 x 9mm	2 x 6mm	1 x 6mm	40	4725-1051	N/A


### FLAT FACE BIT

	DIA (D) MM	GAUGE CARBIDES	FACE CARBIDES	FACE FLUSHING	SIDE FLUSHING	GAUGE ANGLE	R25 CAT. NUMBER	R28 CAT. NUMBER
	33	5 x 8mm	2 x 6.5mm	1 x 5mm	2 x 5mm	30	4725-2033	N/A
	35	5 x 9mm	2 x 6.5mm	1 x 5mm	2 x 5mm	30	4725-2035	N/A
	38	5 x 9mm	2 x 6.5mm	1 x 5mm	2 x 5mm	30	4725-2038	4728-2038
	41	5 x 10mm	2 x 8mm	1 x 6mm	2 x 6mm	30	4725-2041	4728-2041
	43	5 x 10mm	2 x 8mm	1 x 6mm	2 x 6mm	30	4725-2043	4728-2043
	45	5 x 11mm	2 x 9mm	1 x 6mm	2 x 6mm	30	4725-2045	4728-2045
	48	5 x 11mm	2 x 9mm	1 x 6mm	2 x 6mm	30	4725-2048	N/A
	51	5 x 12mm	2 x 10mm	1 x 6mm	2 x 6mm	30	4725-2051	N/A

### GROOVED FACE BIT

	DIA (D) MM	GAUGE CARBIDES	FACE CARBIDES	FACE FLUSHING	SIDE FLUSHING	GAUGE ANGLE	R25 CAT. NUMBER	R28 CAT. NUMBER
	45	6 x 9mm	3 x 8mm	3 x 5mm	0	30	4725-3045	N/A
	48	6 x 10mm	3 x 8mm	3 x 5mm	0	35	4725-3048	N/A
	51	6 x 10mm	3 x 9mm	3 x 6mm	0	30	4725-3051	N/A

### COUPLINGS

	DIA (D) MM	LENGTH (L) MM	DESCRIPTION	CAT. NUMBER
	35mm (1 3/8")	150mm (5 7/8")	R25 S/B COUPLING	5525-0001

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# TUNNELLING AND DRIFTING

## R25 (1" ROPE THREAD)

### SHANKED RODS 108 X 22mm (4 1/4" x 7/8") SHANK - 22mm HEX BODY



EFFECTIVE LENGTH (L)	CAT. NUMBER
610mm (2') B/C	5425-2203-06
915mm (3') B/C	5425-2203-09
1220mm (4') B/C	5425-2203-12
1525mm (5') B/C	5425-2203-15
1830mm (6') B/C	5425-2203-18
2440mm (8') B/C	5425-2203-24
3050mm (10') B/C	5425-2203-31
3660mm (12') B/C	5425-2203-37
4000mm (13') B/C	5425-2203-40

### SHANKED RODS 108 X 25mm (4 1/4" x 1") SHANK - 25mm HEX BODY



EFFECTIVE LENGTH (L)	CAT. NUMBER
610mm (2') B/C	5425-2503-06
800mm (2' 7") B/C	5425-2503-08
1220mm (4') B/C	5425-2503-12
1830mm (6') B/C	5425-2503-18
2440mm (8') B/C	5425-2503-24
3050mm (10') B/C	5425-2503-31
3200mm (10' 5") B/C	5425-2203-32
3660mm (12') B/C	5425-2503-37
4000mm (13') B/C	5425-2503-40

### DUAL DRIVE SHANKED RODS 108 X 25mm (4 1/4" x 1") SHANK - 25mm HEX BODY

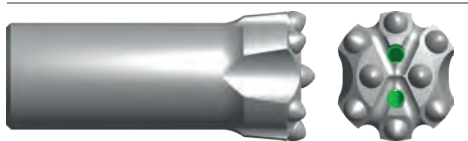
**NEW!** PATENT PENDING



EFFECTIVE LENGTH (L)	CAT. NUMBER
2440mm (8') B/C	5425-2503-24DD
3050mm (10') B/C	5425-2503-31DD
3200mm (10' 5") B/C	5425-2203-32DD
3660mm (12') B/C	5425-2503-37DD
3720mm (12' 2") B/C	5425-2503-38DD

### DUAL DRIVE CROSS FLUSH BITS

**NEW!** PATENT PENDING



DIA (D) MM	GAUGE CARBIDES	FACE CARBIDES	FACE FLUSHING	SIDE FLUSHING	GAUGE ANGLE	R25 CAT. NUMBER	R28 CAT. NUMBER
38	6 x 8mm	2 x 6.5mm	2 x 6mm	1 x 6mm	30	4725-1038DD	N/A
41	6 x 8mm	2 x 8mm	2 x 6mm	1 x 6mm	30	4725-1041DD	N/A
43	6 x 8mm	2 x 8mm	2 x 6mm	1 x 6mm	30	4725-1043DD	N/A
45	6 x 9mm	2 x 8mm	2 x 6mm	1 x 6mm	30	4725-1045DD	N/A
48	6 x 9mm	2 x 9mm	2 x 6mm	1 x 6mm	30	4725-1048DD	N/A
51	6 x 10mm	2 x 9mm	2 x 6mm	1 x 6mm	40	4725-1051DD	N/A

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# TUNNEL RODS

THREAD SIZES R32/R25, R32/R28

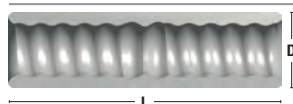
## R32/R25 - 25mm (1") - HEX BODY

Ø 9.0mm Flushing hole



EFFECTIVE LENGTH (L)	CAT. NUMBER
2020mm (6' 7½")	5732-2525-21
2480mm (8' 1½")	5732-2525-25
2630mm (9' 11")	5732-2525-26
2900mm (10' 9")	5732-2525-29
3090mm (10' 1½")	5732-2525-31
3700mm (12' 1½")	5732-2525-37
4300mm (14' 1½")	5732-2525-43
5525mm (18' 1½")	5732-2525-55

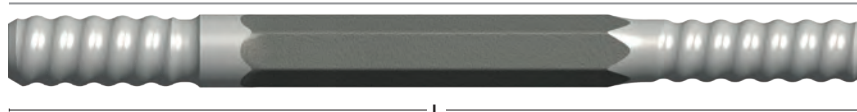
## COUPLINGS



DIA (D) MM	LENGTH (L) MM	DESCRIPTION	CAT. NUMBER
45mm (1 ¾")	159mm (6 ¼")	R32 SEMI-BRIDGE	5532-0001
55mm (2 ½")	175mm (6 ⅞")	R38 SEMI-BRIDGE	5538-0001

## R32/R28 - 28mm (1 ⅛") - HEX BODY

Ø 9.0mm Flushing hole



EFFECTIVE LENGTH (L)	CAT. NUMBER
2480mm (8' 1½")	5732-2828-25
2630mm (9' 11")	5732-2828-26
2785mm (9' 1⅞")	5732-2828-28
3090mm (10' 1½")	5732-2828-31
3700mm (12' 1½")	5732-2828-37
4300mm (14' 1½")	5732-2828-43

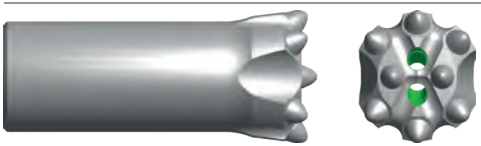
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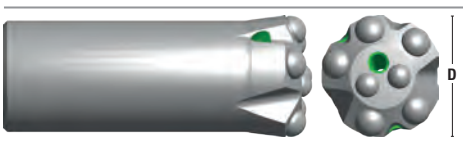
Rock Drilling Equipment Catalogue  
**TUNNEL RODS**  
**THREAD SIZES R32/R35**

**R32 & R35 - CROSS FLUSH**

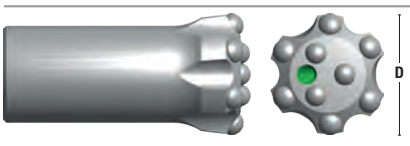


DIA (D) MM	GAUGE CARBIDES	FACE CARBIDES	FACE FLUSHING	SIDE FLUSHING	GAUGE ANGLE	R32 CAT. NUMBER	R35 CAT. NUMBER
45	4 x 11mm	2 x 9mm	2 x 5mm	2 x 7mm	30	4732-1045	N/A
48	4 x 11mm	2 x 10mm	2 x 6mm	2 x 7mm	30	4732-1048	N/A
51	4 x 11mm	2 x 11mm	2 x 6mm	2 x 7mm	40	4732-1051	N/A

**R32 & R35 - FLAT FACE**





DIA (D) MM	GAUGE CARBIDES	FACE CARBIDES	FACE FLUSHING	SIDE FLUSHING	GAUGE ANGLE	R32 CAT. NUMBER	R35 CAT. NUMBER
41	5 x 10mm	2 x 8mm	1 x 6mm	2 x 6mm	30	4732-2041	N/A
43	5 x 10mm	2 x 8mm	1 x 6mm	2 x 6mm	30	4732-2043	N/A
45	5 x 11mm	2 x 9mm	1 x 6mm	2 x 6mm	30	4732-2045	N/A
48	5 x 11mm	2 x 9mm	1 x 6mm	2 x 6mm	30	4732-2048	4735-2048
51	5 x 12mm	2 x 10mm	1 x 6mm	2 x 6mm	30	4732-2051	4735-2051

54	6 x 11mm	3 x 9mm	3 x 6mm	0	35	4732-2054	4735-2054
57	6 x 11mm	3 x 10mm	1 x 7mm	2 x 7mm	35	4732-2057	4735-2057
64	6 x 12mm	3 x 10mm	1 x 9mm	1 x 9mm	30	4732-2064	4735-2064
76	6 x 12mm	5 x 11mm	1 x 8mm	2 x 8mm	35	4732-2076	4735-2076

**R32 & R35 - NINJA**

DIA (D) MM	GAUGE CARBIDES	FACE CARBIDES	FACE FLUSHING	SIDE FLUSHING	GAUGE ANGLE	R32 CAT. NUMBER	R35 CAT. NUMBER
43	6 x 9mm	3 x 8mm	3 x 5mm	2 x 6mm	30	4732-3043	N/A
45	6 x 9mm	3 x 8mm	3 x 5mm	2 x 6mm	30	4732-3045	N/A
48	6 x 10mm	3 x 8mm	3 x 5mm	2 x 6mm	35	4732-3048	4735-3048
51	6 x 10mm	3 x 9mm	3 x 6mm	2 x 6mm	30	4732-3051	4735-3051
54	6 x 10mm	3 x 9mm	3 x 6mm	2 x 6mm	35	4732-3054	4735-3054
57	6 x 11mm	3 x 10mm	3 x 6mm	2 x 6mm	35	4732-3057	4735-3057
64	6 x 12mm	3 x 11mm	3 x 6mm	2 x 6mm	30	4732-3064	4735-3064

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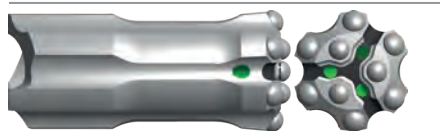
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# TUNNEL RODS

## THREAD SIZES R32/R35

### R32 & R35 - NINJA, RETRAC



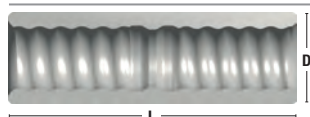
DIA (D) MM	GAUGE CARBIDES	FACE CARBIDES	FACE FLUSHING	SIDE FLUSHING	GAUGE ANGLE	R32 CAT. NUMBER	R35 CAT. NUMBER
51	6 x 10mm	3 x 9mm	3 x 6mm	2 x 6mm	30	4732-3251	4735-3251
54	6 x 10mm	3 x 9mm	3 x 6mm	2 x 6mm	35	4732-3254	4735-3254
57	6 x 11mm	3 x 10mm	3 x 6mm	2 x 6mm	35	4732-3257	4735-3257
64	6 x 12mm	3 x 11mm	3 x 6mm	2 x 6mm	30	4732-3264	4735-3264

### R32 & R35 - DROP CENTRE



DIA (D) MM	GAUGE CARBIDES	FACE CARBIDES	FACE FLUSHING	SIDE FLUSHING	GAUGE ANGLE	R32 CAT. NUMBER	R35 CAT. NUMBER
64	6 x 12mm	4 x 9mm	3 x 8mm	0	30	4732-4064	4735-4064

### COUPLINGS



DIA (D) MM	LENG (L) MM	DESCRIPTION	CAT. NUMBER
55	175	R38 S/B COUPLING	5538-0001
55	190	P38 S/B COUPLING	5588-0001

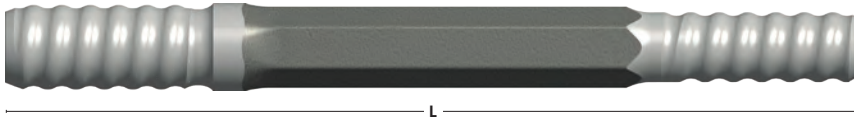


# TUNNEL RODS

## THREAD SIZES R38/R32 & P38/R32

### R38/R32, 32mm (1¼") - HEX BODY

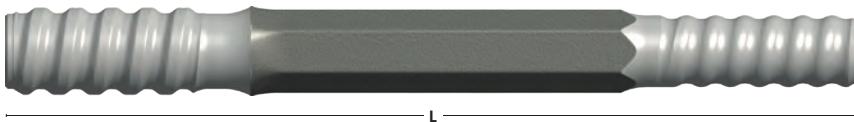
Ø 9.0mm Flushing hole



EFFECTIVE LENGTH (L)	CAT. NUMBER
3090mm (10' 1½")	5738-3232-31
3700mm (12' 1½")	5738-3232-37
4300mm (14' 1½")	5738-3232-43
4915mm (16' 1½")	5738-3232-49

### P38/R32, 32mm (1¼") - HEX BODY

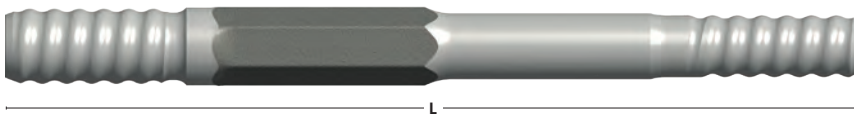
Ø 9.0mm Flushing hole



EFFECTIVE LENGTH (L)	CAT. NUMBER
3090mm (10' 1½")	5788-3232-31
3700mm (12' 1½")	5788-3232-37
4300mm (14' 1½")	5788-3232-43
4915mm (16' 1½")	5788-3232-49

### R38/R32, 35mm (1⅜") - HEX BODY

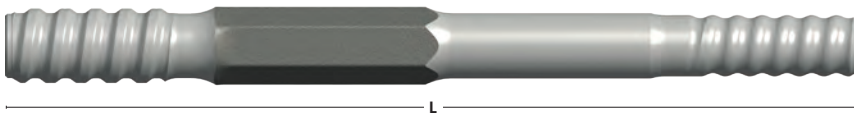
Ø 9.5mm Flushing hole



EFFECTIVE LENGTH (L)	CAT. NUMBER
3090mm (10' 1½")	5738-3532-31
3700mm (12' 1½")	5738-3532-37
4300mm (14' 1½")	5738-3532-43
4915mm (16' 1½")	5738-3532-49
5525mm (18' 1½")	5738-3532-55

### P38/R32, 35mm (1⅜") - HEX BODY

Ø 9.5mm Flushing hole



EFFECTIVE LENGTH (L)	CAT. NUMBER
3090mm (10' 1½")	5788-3532-31
3700mm (12' 1½")	5788-3532-37
4300mm (14' 1½")	5788-3532-43
4915mm (16' 1½")	5788-3532-49
5525mm (18' 1½")	5788-3532-55
6135mm (20' 1½")	5788-3532-61
6440mm (21' 1½")	5788-3532-64

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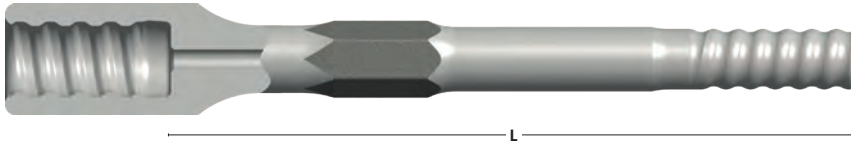
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# TUNNEL RODS

## THREAD SIZES P38/R32

### P38 FEM./R32MALE, 35mm (1<sup>3</sup>/<sub>8</sub>" ) - HEX BODY

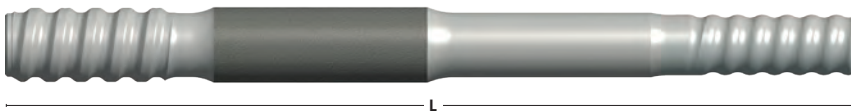
Ø 9.5mm Flushing hole



EFFECTIVE LENGTH (L)	CAT. NUMBER
3100mm (10' 1/2")	5788-3532-31MF
3700mm (12' 1/2")	5788-3532-37MF
4305mm (14' 1/2")	5788-3532-43MF
4915mm (16' 1/2")	5788-3532-49MF
5525mm (18' 1/2")	5788-3532-55MF
6440mm (21' 1/2")	5788-3532-64MF

### P38/R32, 39mm (1<sup>17</sup>/<sub>32</sub>" ) - ROUND BODY

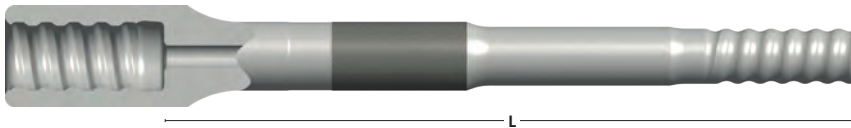
Ø 12mm Flushing hole



EFFECTIVE LENGTH (L)	CAT. NUMBER
3700mm (12' 1/2")	5688-3932-37
4305mm (14' 1/2")	5688-3932-43
4915mm (16' 1/2")	5688-3932-49
5525mm (18' 1/2")	5688-3932-55
6135mm (20' 1/2")	5688-3932-61
6440mm (21' 1/2")	5688-3932-64

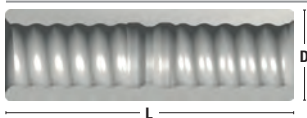
### P38 FEM./R32 MALE, 39mm (1<sup>17</sup>/<sub>32</sub>" ) - ROUND BODY

Ø 12mm Flushing hole



EFFECTIVE LENGTH (L)	CAT. NUMBER
3700mm (12' 1/2")	5888-3932-37MF
4305mm (14' 1/2")	5888-3932-43MF
4915mm (16' 1/2")	5888-3932-49MF
5525mm (18' 1/2")	5888-3932-55MF
6135mm (20' 1/2")	5888-3932-61MF
6440mm (21' 1/2")	5888-3932-64MF

## COUPLINGS



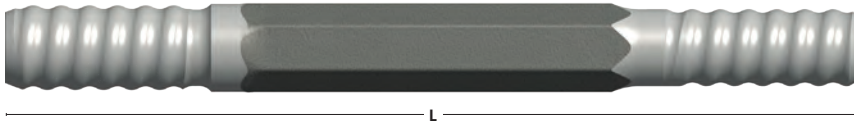
DIA (D) MM	LENG (L) MM	DESCRIPTION	CAT. NUMBER
55	175	R38 S/B COUPLING	5538-0001
55	190	P38 S/B COUPLING	5588-0001

# TUNNEL RODS

## THREAD SIZES R38/R35 & P38/R35

### R38/R35, 35mm (1<sup>3</sup>/<sub>8</sub>" ) - HEX BODY

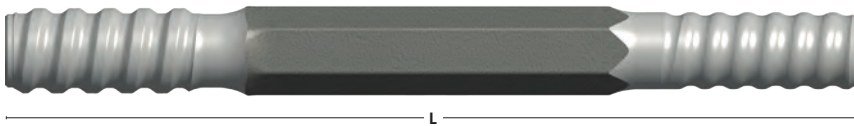
Ø 9.5mm Flushing hole



LENGTH (L)	CAT. NUMBER
4300mm (14' 1½")	5738-3535-43
4915mm (16' 1½")	5738-3535-49
5525mm (18' 1½")	5738-3535-55
6135mm (20' 1½")	5738-3535-61

### P38/R35, 35mm (1<sup>3</sup>/<sub>8</sub>" ) - HEX BODY

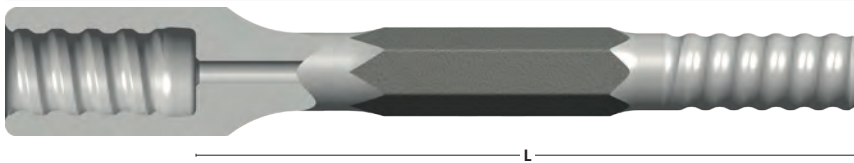
Ø 9.5mm Flushing hole



LENGTH (L)	CAT. NUMBER
3700mm (12' 1½")	5788-3535-37
4300mm (14' 1½")	5788-3535-43
4915mm (16' 1½")	5788-3535-49
5525mm (18' 1½")	5788-3535-55
6135mm (20' 1½")	5788-3535-61
6440mm (21' 1½")	5788-3535-64

### P38 FEMALE/R35 MALE, 35mm (1<sup>3</sup>/<sub>8</sub>" ) - HEX BODY

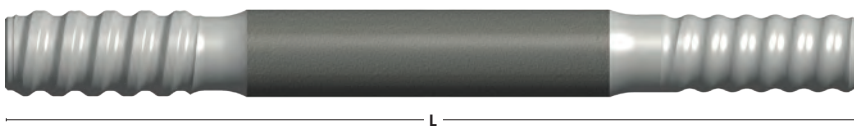
Ø 9.5mm Flushing hole



LENGTH (L)	CAT. NUMBER
4300mm (14' 1½")	5788-3535-43MF
4915mm (16' 1½")	5788-3535-49MF
5525mm (18' 1½")	5788-3535-55MF
6135mm (20' 1½")	5788-3535-61MF
6400mm (21')	5788-3535-64MF

### P38/R35, 39mm (1<sup>17</sup>/<sub>32</sub>" ) - ROUND BODY

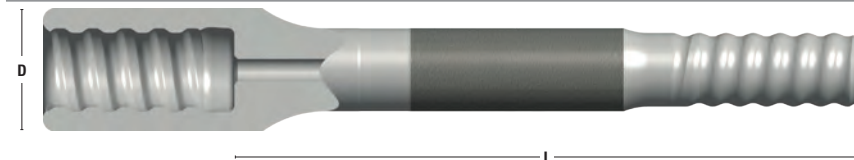
Ø 14mm Flushing hole



LENGTH (L)	CAT. NUMBER
4300mm (14' 1½")	5688-3935-43
4915mm (16' 1½")	5688-3935-49
5525mm (18' 1½")	5688-3935-55
6135mm (20' 1½")	5688-3935-61

### P38 FEMALE/R35 MALE, 39mm (1<sup>17</sup>/<sub>32</sub>" ) - ROUND BODY

Ø 14mm Flushing hole



LENGTH (L)	CAT. NUMBER
3700mm (12' 1½")	5888-3935-37MF
4300mm (14' 1½")	5888-3935-43MF
4915mm (16' 1½")	5888-3935-49MF
5525mm (18' 1½")	5888-3935-55MF
6135mm (20' 1½")	5888-3935-61MF

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# REAMING EQUIPMENT

THREAD SIZES R25/R28/R32/R35


## PILOT ADAPTERS T.C. TIPPED HEAD, 26MM - 6° TAPER

	THREAD	DIAMETER	CAT. NUMBER
	R25	D=26mm	4250-2526
	R28	D=26mm	4250-2826
	R32	D=26mm	4250-3226


## REAMING BITS, BUTTON - 6° TAPER

	DIA (D) MM	GAUGE CARBIDES	FACE CARBIDES	GAUGE ANGLE	CAT. NUMBER
	64	6 x 10mm	3 x 9mm	35°	4700-1364
	76	8 x 11mm	4 x 10mm	35°	4700-1376
	89	8 x 12mm	4 x 10mm	35°	4700-1389

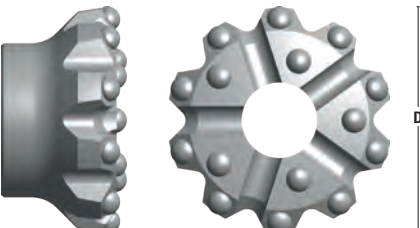
## PILOT ADAPTERS T.C. TIPPED HEAD, 40MM - 12° TAPER

	THREAD	DIAMETER (D)	CAT. NUMBER
	R32	40mm	4250-3240
	R35	40mm	4250-3540

## PILOT ADAPTERS 12° - WITH MALE THREAD

	THREAD	DIAMETER (D)	CAT. NUMBER
	R32	40mm	4250-3232M
	R35	40mm	4250-3535M

## REAMING BITS, BUTTON - 12° TAPER

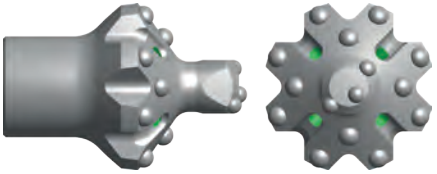
	DIA (D) MM	GAUGE CARBIDES	FACE CARBIDES	GAUGE ANGLE	CAT. NUMBER
	89	8 x 12mm	4 x 10mm	35°	4700-1689
	102	8 x 12mm	4 x 11mm	35°	4700-1602
	127	10 x 14mm	5 x 14mm	35°	4700-1627

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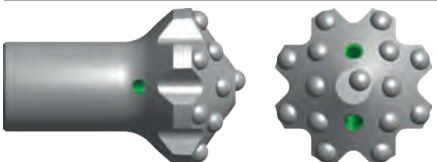
# REAMING EQUIPMENT

THREAD SIZES R32/R35

## THREADED REAM BITS

	DIA (D) MM	GAUGE CARBIDES	PILOT CARBIDES	FACE FLUSHING	SIDE FLUSHING	GAUGE ANGLE	R32 CAT. NUMBER	R35 CAT. NUMBER
	76	8 x 12mm	3 x 10mm	4 x 8mm	2	35	4732-5276-38	N/A
	89	8 x 12mm	3 x 10mm	4 x 8mm	2	35	4732-5289-38	4735-5289-38
	102	12 x 12mm	3 x 10mm	4 x 8mm	2	35	4732-5202-38	4735-5202-38
	115	15 x 14mm	3 x 10mm	4 x 8mm	2	35	N/A	4735-5215-38
	127	15 x 14mm	3 x 10mm	4 x 8mm	2	35	N/A	4735-5227-38

## THREADED REAM BITS (MUSHROOM TYPE)

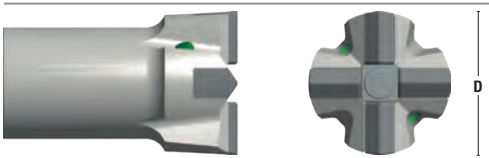
	DIA (D) MM	GAUGE CARBIDES	PILOT CARBIDES	FACE FLUSHING	SIDE FLUSHING	GAUGE ANGLE	R32 CAT. NUMBER	R35 CAT. NUMBER
	76	8 x 12mm	6 x 12mm	4 x 8mm	2	35°	4732-5076	4735-5076
	89	8 x 12mm	6 x 12mm	4 x 8mm	2	35°	4732-5089	4735-5089
	102	9 x 12mm	8 x 12mm	4 x 8mm	2	35°	4732-5002	4735-5002

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# EXTENSION DRILLING EQUIPMENT

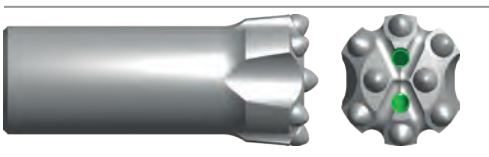
THREAD SIZES R25

## CROSS BIT



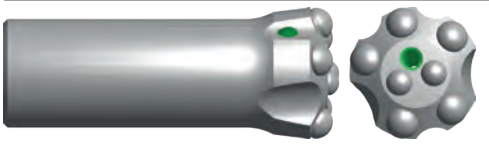
DIA (D) MM	CARBIDE WIDTH	CARBIDE HEIGHT	FACE FLUSHING	SIDE FLUSHING	GAUGE ANGLE	R25 CAT. NUMBER
35	8mm	11mm	4 x 5mm	1 x 5mm	N/A	4625-0835
38	8mm	11mm	4 x 5mm	1 x 5mm	N/A	4625-0838
41	8mm	14mm	4 x 5mm	1 x 5.5mm	N/A	4625-0841
45	9mm	14mm	4 x 5mm	1 x 5.5mm	N/A	4625-0845
48	9mm	14mm	4 x 5mm	1 x 5.5mm	N/A	N/A

## CROSS FLUSH




DIA (D) MM	GAUGE CARBIDES	FACE CARBIDES	FACE FLUSHING	SIDE FLUSHING	GAUGE ANGLE	R25 CAT. NUMBER
38	6 x 8mm	2 x 6.5mm	2 x 6mm	1 x 6mm	30	4725-1038
41	6 x 8mm	2 x 8mm	2 x 6mm	1 x 6mm	30	4725-1041
43	6 x 8mm	2 x 8mm	2 x 6mm	1 x 6mm	30	4725-1043
45	6 x 9mm	2 x 8mm	2 x 6mm	1 x 6mm	30	4725-1045
48	6 x 9mm	2 x 9mm	2 x 6mm	1 x 6mm	30	4725-1048
51	6 x 10mm	2 x 9mm	2 x 6mm	1 x 6mm	40	4725-1051

## FLAT FACE BIT



DIA (D) MM	GAUGE CARBIDES	FACE CARBIDES	FACE FLUSHING	SIDE FLUSHING	GAUGE ANGLE	R25 CAT. NUMBER
33	5 x 8mm	2 x 6.5mm	1 x 5mm	2 x 5mm	30	4725-2033
35	5 x 9mm	2 x 6.5mm	1 x 5mm	2 x 5mm	30	4725-2035
38	5 x 9mm	2 x 6.5mm	1 x 5mm	2 x 5mm	30	4725-2038
41	5 x 10mm	2 x 8mm	1 x 6mm	2 x 6mm	30	4725-2041
43	5 x 10mm	2 x 8mm	1 x 6mm	2 x 6mm	30	4725-2043
45	5 x 11mm	2 x 9mm	1 x 6mm	2 x 6mm	30	4725-2045
48	5 x 11mm	2 x 9mm	1 x 6mm	2 x 6mm	30	4725-2048
51	5 x 12mm	2 x 10mm	1 x 6mm	2 x 6mm	30	4725-2051

## GROOVED FACE BIT



DIA (D) MM	GAUGE CARBIDES	FACE CARBIDES	FACE FLUSHING	SIDE FLUSHING	GAUGE ANGLE	R25 CAT. NUMBER
45	6 x 9mm	3 x 8mm	3 x 5mm	0	30	4725-3045
48	6 x 10mm	3 x 8mm	3 x 5mm	0	35	4725-3048
51	6 x 10mm	3 x 9mm	3 x 6mm	0	30	4725-3051

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# EXTENSION DRILLING EQUIPMENT

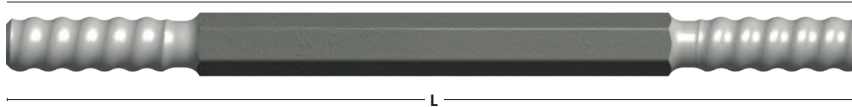
THREAD SIZES R25

## COUPLINGS

	DIAMETER (D)	LENGTH (L)	DESCRIPTION	CAT. NUMBER
	35mm	149mm	SEMI-BRIDGE	5525-0001

## R25 EXTENSION RODS

Ø 9.0mm Flushing hole



LENGTH (L)	CAT. NUMBER
610mm (2')	5725-2506
915mm (3')	5725-2509
1220mm (4')	5725-2512
1525mm (5')	5725-2515
1830mm (6')	5725-2518
2435mm (8')	5725-2524
3050mm (10')	5725-2531
3660mm (12')	5725-2536

## R25 MALE/FEMALE EXTENSION RODS

Ø 9.0mm Flushing hole



LENGTH (L)	CAT. NUMBER
610mm (2')	5725-2506MF
915mm (3')	5725-2509MF
1220mm (4')	5725-2512MF
1525mm (5')	5725-2515MF
1830mm (6')	5725-2518MF
2435mm (8')	5725-2524MF
3050mm (10')	5725-2531MF
3660mm (12')	5725-2536MF

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# R32 EXTENSION DRILLING EQUIPMENT

## THREAD SIZES R32

### R32 - CROSS FLUSH

DIA (D) MM	GAUGE CARBIDES	FACE CARBIDES	FACE FLUSHING	SIDE FLUSHING	GAUGE ANGLE	R32 CAT. NUMBER
48	6 x 9mm	2 x 9mm	2 x 6mm	1 x 6mm	30	4732-1048
51	6 x 10mm	2 x 9mm	2 x 6mm	1 x 6mm	40	4732-1051

### R32 - FLAT FACE

DIA (D) MM	GAUGE CARBIDES	FACE CARBIDES	FACE FLUSHING	SIDE FLUSHING	GAUGE ANGLE	R32 CAT. NUMBER
48	5 x 11mm	2 x 9mm	1 x 6mm	2 x 6mm	30	4732-2048
51	5 x 12mm	2 x 10mm	1 x 6mm	2 x 6mm	30	4732-2051
54	6 x 11mm	3 x 9mm	3 x 6mm	0	35	4732-2054
57	6 x 11mm	3 x 10mm	1 x 7mm	2 x 7mm	35	4732-2057
64	6 x 12mm	3 x 10mm	1 x 9mm	1 x 9mm	30	4732-2064
76	6 x 12mm	5 x 11mm	1 x 8mm	2 x 8mm	35	4732-2076

### R32 - GROOVED FACE

DIA (D) MM	GAUGE CARBIDES	FACE CARBIDES	FACE FLUSHING	SIDE FLUSHING	GAUGE ANGLE	R32 CAT. NUMBER
48	6 x 10mm	3 x 8mm	3 x 5mm	2 x 6mm	35	4732-3048
51	6 x 10mm	3 x 9mm	3 x 6mm	2 x 6mm	30	4732-3051
54	6 x 10mm	3 x 9mm	3 x 6mm	2 x 6mm	35	4732-3054
57	6 x 11mm	3 x 10mm	3 x 6mm	2 x 6mm	35	4732-3057
64	6 x 12mm	3 x 11mm	3 x 6mm	2 x 6mm	30	4732-3064

### R32 - GROOVED FACE, RETRAC

DIA (D) MM	GAUGE CARBIDES	FACE CARBIDES	FACE FLUSHING	SIDE FLUSHING	GAUGE ANGLE	R32 CAT. NUMBER
51	6 x 10mm	3 x 9mm	3 x 6mm	2 x 6mm	30	4732-3251
54	6 x 10mm	3 x 9mm	3 x 6mm	2 x 6mm	35	4732-3254
57	6 x 11mm	3 x 10mm	3 x 6mm	2 x 6mm	35	4732-3257
64	6 x 12mm	3 x 11mm	3 x 6mm	2 x 6mm	30	4732-3264

### R32 - DROP CENTRE

DIA (D) MM	GAUGE CARBIDES	FACE CARBIDES	FACE FLUSHING	SIDE FLUSHING	GAUGE ANGLE	R32 CAT. NUMBER
64	6 x 12mm	4 x 9mm	3 x 8mm	0	30	4732-4064

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# R32 EXTENSION DRILLING EQUIPMENT

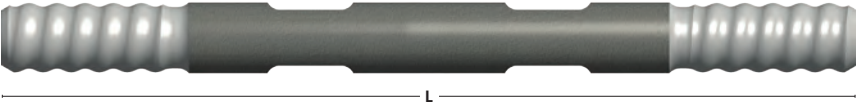
THREAD SIZES R32

## COUPLINGS

	DIA (D) MM	LENG (L) MM	DESCRIPTION	CAT. NUMBER
	45	159	SEMI-BRIDGE	5532-0001


## 32mm (1¼") ROUND - CARBURISED

Ø 11mm Flushing hole

	LENGTH (L)	CAT. NUMBER
	1220mm (4')	5632-3212C
	1525mm (5')	5632-3215C
	1830mm (6')	5632-3218C
	3050mm (10')	5632-3231C
	3660mm (12')	5632-3236C


## 32mm (1¼") ROUND - SURFACE HARDENED

Ø 11mm Flushing hole

	LENGTH (L)	CAT. NUMBER
	3050mm (10')	5632-3231SH
	3660mm (12')	5632-3236SH
	4270mm(14')	5632-3243SH

## MALE/FEMALE SPEEDRODS 32mm (1¼") - ROUND

Ø 11mm Flushing hole

	LENGTH (L)	CAT. NUMBER
	1220mm (4')	5832-3212MF
	1525mm (5')	5832-3215MF
	1830mm (6')	5832-3218MF
	3050mm (10')	5832-3231MF
	3660mm (12')	5832-3236MF
	4270mm (14')	5832-3243MF

## GUIDE TUBE

Ø 11mm Flushing hole

	DIA.	LENGTH (L)	CAT. NUMBER
	44mm	3050mm (10')	5632-4412
	44mm	3660mm (12')	5632-4418
	44mm	4270mm(14')	5632-4431

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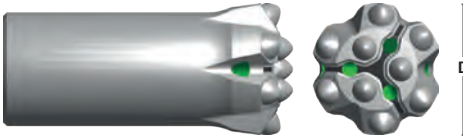
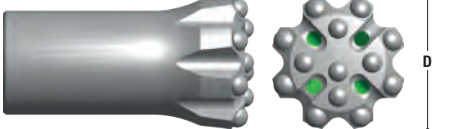
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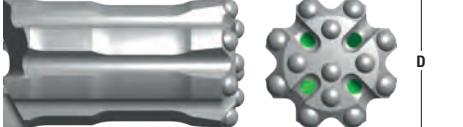
# P35 EXTENSION DRILLING EQUIPMENT

## THREAD SIZES P35

### P35 - GROOVED FACE

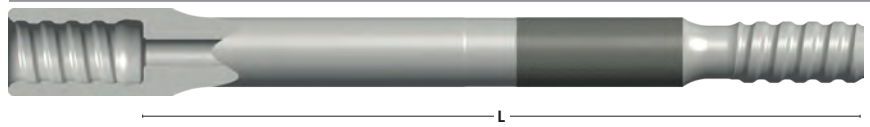
	DIA (D) MM	GAUGE CARBIDES	FACE CARBIDES	FACE FLUSHING	SIDE FLUSHING	GAUGE ANGLE	P35 CAT. NUMBER
	48	6 x 10mm	3 x 8mm	3 x 5mm	2 x 6mm	35	4785-3048
	51	6 x 10mm	3 x 9mm	3 x 6mm	2 x 6mm	30	4785-3051
	54	6 x 10mm	3 x 9mm	3 x 6mm	2 x 6mm	35	4785-3054
	57	6 x 11mm	3 x 10mm	3 x 6mm	2 x 6mm	35	4785-3057
	64	6 x 12mm	3 x 11mm	3 x 6mm	2 x 6mm	30	4785-3064
	76	8 x 12mm	5 x 11mm	4 x 8mm	0	35	4785-3076

### P35 - GROOVED FACE RETRAC

	DIA (D) MM	GAUGE CARBIDES	FACE CARBIDES	FACE FLUSHING	SIDE FLUSHING	GAUGE ANGLE	P35 CAT. NUMBER
	54	6 x 10mm	3 x 9mm	3 x 6mm	2 x 6mm	35	4785-3254
	57	6 x 11mm	3 x 10mm	3 x 6mm	2 x 6mm	35	4785-3257
	64	6 x 12mm	3 x 11mm	3 x 6mm	2 x 6mm	30	4785-3264
	76	8 x 12mm	5 x 11mm	4 x 8mm	0	35	4785-3276

### P35 MALE/FEMALE SPEEDRODS 38mm (1½") - ROUND BODY

Ø 14mm Flushing hole


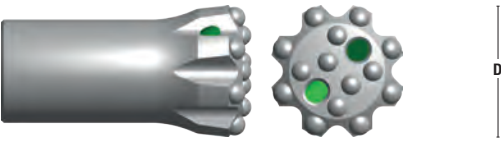
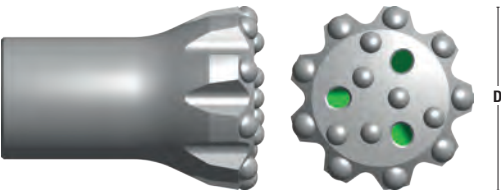


LENGTH (L)	CAT. NUMBER
1220mm (4')	5885-3812MF
1525mm (5')	5885-3815MF
1830mm (6')	5885-3818MF
3050mm (10')	5885-3831MF
3660mm (12')	5885-3836MF
4270mm (14')	5885-3843MF

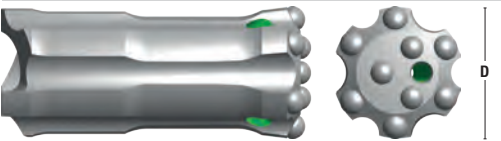
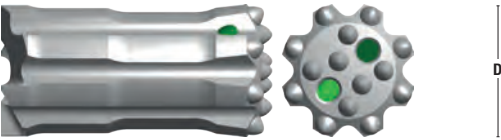
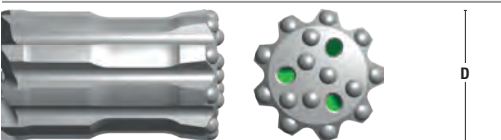
# P38 EXTENSION DRILLING EQUIPMENT

## THREAD SIZES P38

### P38 - FLAT FACE

	DIA (D) MM	GAUGE CARBIDES	FACE CARBIDES	FACE FLUSHING	SIDE FLUSHING	GAUGE ANGLE	P38 CAT. NUMBER
	60	6 x 11mm	3 x 11mm	1 x 9mm	1 x 9mm	30	4788-2060
	64	6 x 12mm	3 x 11mm	1 x 9mm	1 x 9mm	30	4788-2064
	70	8 x 12mm	6 x 10mm	2 x 10mm	2 x 9mm	30	4788-2070
	76	8 x 12mm	6 x 10mm	2 x 12mm	2 x 8mm	35	4788-2076
	89	9 x 12mm	6 x 12mm	3 x 10mm	0	35	4788-2089
	102	9 x 14mm	6 x 12mm	3 x 11mm	0	35	4788-2002

### P38 - FLAT FACE RETRAC

	DIA (D) MM	GAUGE CARBIDES	FACE CARBIDES	FACE FLUSHING	SIDE FLUSHING	GAUGE ANGLE	P38 CAT. NUMBER
	64	6 x 12mm	3 x 11mm	1 x 9mm	1 x 9mm	30	4788-2264
	76	8 x 12mm	6 x 10mm	2 x 12mm	2 x 8mm	35	4788-2276
	89	9 x 12mm	6 x 12mm	3 x 10mm	0	35	4788-2289

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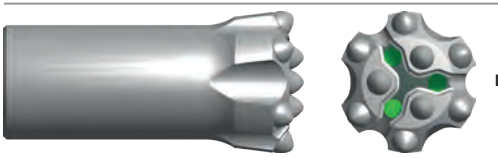
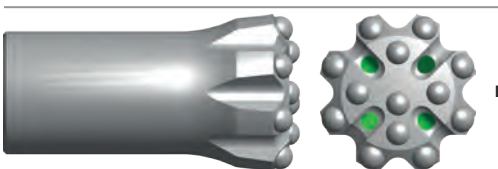
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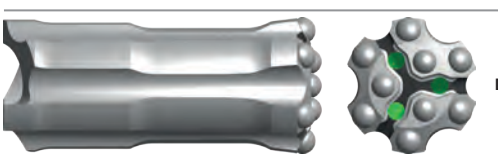

# P38 EXTENSION DRILLING EQUIPMENT

## THREAD SIZES P38

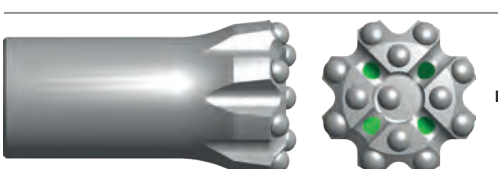
### P38 - GROOVED FACE

	DIA (D) MM	GAUGE CARBIDES	FACE CARBIDES	FACE FLUSHING	SIDE FLUSHING	GAUGE ANGLE	P38 CAT. NUMBER
	64	6 x 12mm	3 x 11mm	3 x 8mm	0	30	4788-3064
	76	8 x 12mm	5 x 11mm	4 x 8mm	0	35	4788-3076
	89	8 x 13mm	5 x 12mm	4 x 9mm	0	35	4788-3089

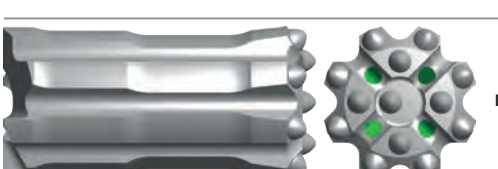
### P38 - GROOVED FACE RETRAC

	DIA (D) MM	GAUGE CARBIDES	FACE CARBIDES	FACE FLUSHING	SIDE FLUSHING	GAUGE ANGLE	P38 CAT. NUMBER
	64	6 x 12mm	3 x 11mm	3 x 8mm	0	30	4788-3264
	76	8 x 12mm	5 x 11mm	4 x 8mm	0	35	4788-3276
	89	8 x 13mm	5 x 12mm	4 x 9mm	0	35	4788-3289

### P38 - DROP CENTRE

	DIA (D) MM	GAUGE CARBIDES	FACE CARBIDES	FACE FLUSHING	SIDE FLUSHING	GAUGE ANGLE	P38 CAT. NUMBER
	64	8 x 10mm	5 x 9mm	4 x 8mm	0	30	4788-4064
	76	8 x 12mm	5 x 11mm	4 x 8mm	0	35	4788-4076
	89	8 x 14mm	6 x 12mm	4 x 9mm	0	35	4788-4089

### P38 - DROP CENTRE RETRAC

	DIA (D) MM	GAUGE CARBIDES	FACE CARBIDES	FACE FLUSHING	SIDE FLUSHING	GAUGE ANGLE	P38 CAT. NUMBER
	64	8 x 10mm	5 x 9mm	4 x 8mm	0	30	4788-4264
	76	8 x 12mm	5 x 11mm	4 x 8mm	0	35	4788-4276
	89	8 x 14mm	6 x 12mm	4 x 9mm	0	35	4788-4289

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# P38 EXTENSION DRILLING EQUIPMENT

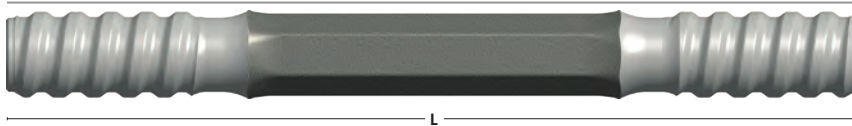
THREAD SIZES P38

## COUPLINGS

	DIA (D) MM	LENG (L) MM	DESCRIPTION	CAT. NUMBER
	55	190	SEMI-BRIDGE	5588-0001

## 32mm (1¼") - HEXAGON

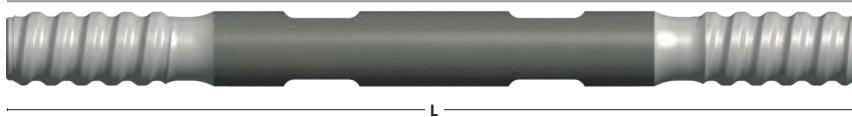
Ø 12mm Flushing hole



LENGTH (L)	CAT. NUMBER
3050mm (10')	5788-3231
3660mm (12')	5788-3236
4000mm (13')	5788-3240

## 38mm (1½") ROUND - CARBURISED

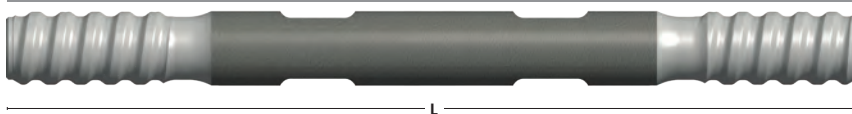
Ø 14mm Flushing hole



LENGTH (L)	CAT. NUMBER
1220mm (4')	5688-3812C
1525mm (5')	5688-3815C
1830mm (6')	5688-3818C
3050mm (10')	5688-3831C
3660mm (12')	5688-3836C
4270mm (14')	5688-3843C
4905mm (16')	5688-3849C

## 38mm (1½") ROUND - SURFACE HARDENED

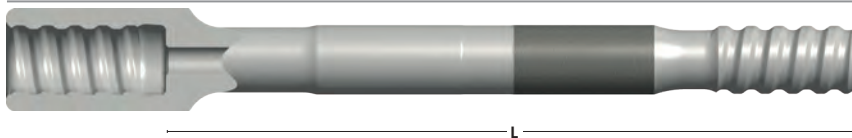
Ø 14mm Flushing hole



LENGTH (L)	CAT. NUMBER
3050mm (10')	5688-3831SH
3660mm (12')	5688-3836SH
4270mm (14')	5688-3843SH
4905mm (16')	5688-3849SH

## MALE/FEMALE SPEEDRODS 38mm (1½") - ROUND

Ø 14mm Flushing hole



LENGTH (L)	CAT. NUMBER
1220mm (4')	5888-3812MF
1525mm (5')	5888-3815MF
1830mm (6')	5888-3818MF
3050mm (10')	5888-3831MF
3660mm (12')	5888-3836MF
4270mm (14')	5888-3843MF

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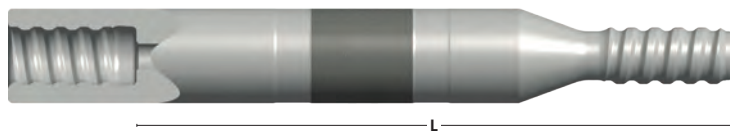
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# P38 EXTENSION DRILLING EQUIPMENT

## THREAD SIZES P38

### GUIDE TUBES

	LENGTH (L)	CAT. NUMBER
	1220mm (4')	5688-5512
	1525mm (5')	5688-5515
	1830mm (6')	5688-5518
	2440mm (8')	5688-5524
	3050mm (10')	5688-5531
	3660mm (12')	5688-5536
	1830mm (6')	5688-6418
	2440mm (8')	5688-6424
	3660mm (12')	5688-6436

### LONG HOLE DRILLING TOOLS - SHOULDER DRIVE TUBES

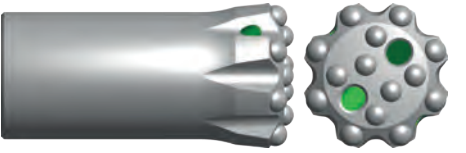
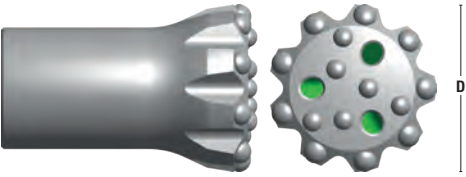
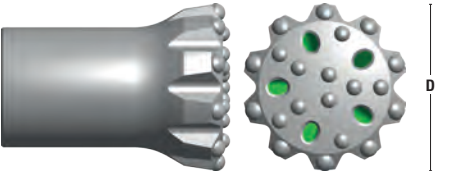
	LENGTH (L)	CAT. NUMBER
	1525mm (5')	5688-5515SD
	1830mm (6')	5688-5518SD

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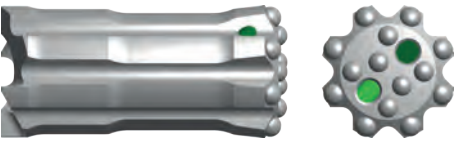
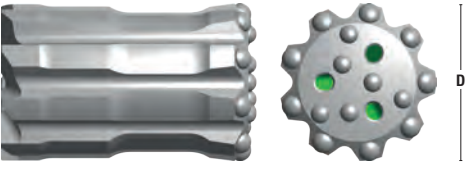
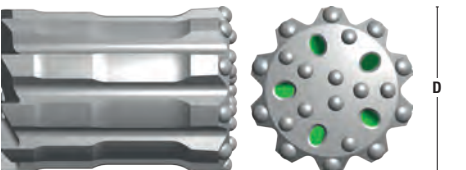
# P45/P51 EXTENSION DRILLING EQUIPMENT

## THREAD SIZES P45/P51

### P45 (T45) & P51(T51) - FLAT FACE

	DIA (D) MM	GAUGE CARBIDES	FACE CARBIDES	FACE FLUSHING	SIDE FLUSHING	GAUGE ANGLE	P45 CAT. NUMBER	P51 CAT. NUMBER
	70	8 x 12mm	6 x 10mm	2 x 10mm	2 x 9mm	35	4795-2070	N/A
	76	8 x 12mm	6 x 10mm	2 x 12mm	2 x 8mm	35	4795-2076	N/A
	89	9 x 12mm	6 x 12mm	3 x 10mm	0	35	4795-2089	4799-2089
	102	9 x 14mm	6 x 12mm	3 x 11mm	0	35	4795-2002	4799-2002
	115	9 x 14mm	9 x 12mm	3 x 11mm	0	35	4795-2015	4799-2015
	127	10 x 14mm	10 x 12mm	5 x 11mm	0	35	N/A	4799-2027

### P45 (T45) & P51(T51) - FLAT FACE RETRAC

	DIA (D) MM	GAUGE CARBIDES	FACE CARBIDES	FACE FLUSHING	SIDE FLUSHING	GAUGE ANGLE	P45 CAT. NUMBER	P51 CAT. NUMBER
	76	8 x 12mm	6 x 10mm	2 x 12mm	2 x 8mm	35	4795-2276	N/A
	89	9 x 12mm	6 x 12mm	3 x 10mm	0	35	4795-2289	4799-2289
	102	9 x 14mm	6 x 12mm	3 x 11mm	0	35	4795-2202	4799-2202
	115	9 x 14mm	9 x 12mm	3 x 11mm	0	35	4795-2215	4799-2215
	127	10 x 14mm	10 x 12mm	5 x 11mm	0	35	NA	4799-2227

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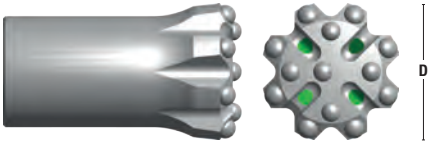

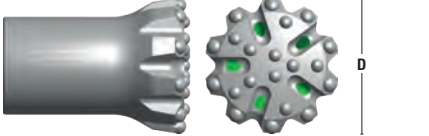
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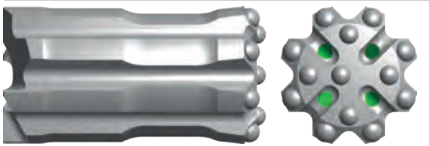
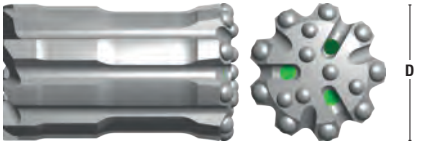
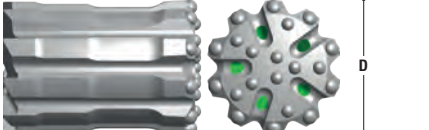
# P45/P51 EXTENSION DRILLING EQUIPMENT

## THREAD SIZES P45/P51

### P45 (T45) & P51(T51) - GROOVED FACE

	DIA (D) MM	GAUGE CARBIDES	FACE CARBIDES	FACE FLUSHING	SIDE FLUSHING	GAUGE ANGLE	P45 CAT. NUMBER	P51 CAT. NUMBER
	76	8 x 12mm	5 x 11mm	4 x 8mm	0	35	4795-3076	N/A
	89	8 x 13mm	5 x 12mm	4 x 9mm	0	35	4795-3089	4799-3089
	102	9 x 14mm	6 x 12mm	3 x 11mm	0	35	4795-3002	4799-3002
	115	9 x 14mm	9 x 12mm	4 x 11mm	0	35	4795-3015	4799-3015
	127	10 x 14mm	10 x 12mm	5 x 11mm	0	35	NA	4799-3027

### P45 (T45) & P51(T51) - GROOVED FACE RETRAC

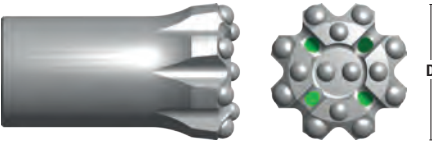
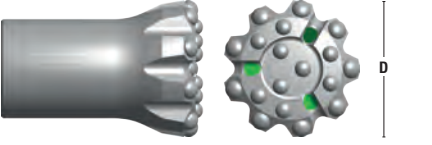
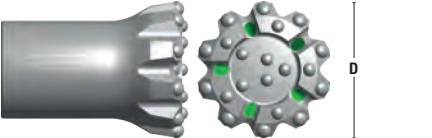
	DIA (D) MM	GAUGE CARBIDES	FACE CARBIDES	FACE FLUSHING	SIDE FLUSHING	GAUGE ANGLE	P45 CAT. NUMBER	P51 CAT. NUMBER
	76	8 x 12mm	5 x 11mm	4 x 8mm	0	35	4795-3276	N/A
	89	8 x 13mm	5 x 12mm	4 x 9mm	0	35	4795-3289	4799-3289
	102	9 x 14mm	6 x 12mm	3 x 11mm	0	35	4795-3202	4799-3202
	115	9 x 14mm	9 x 12mm	4 x 11mm	0	35	4795-3215	4799-3215
	127	10 x 14mm	10 x 12mm	5 x 11mm	0	35	NA	4799-3227

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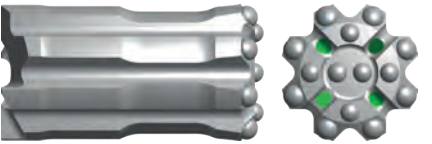
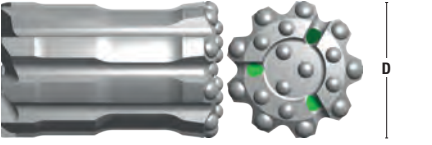
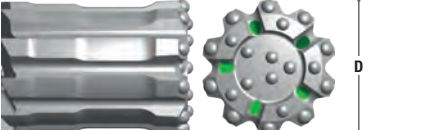
# P45/P51 EXTENSION DRILLING EQUIPMENT

## THREAD SIZES P45/P51

### P45 (T45) & P51(T51) - DROP CENTRE

	DIA (D) MM	GAUGE CARBIDES	FACE CARBIDES	FACE FLUSHING	SIDE FLUSHING	GAUGE ANGLE	P45 CAT. NUMBER	P51 CAT. NUMBER
	76	8 x 12mm	5 x 11mm	4 x 8mm	0	35	4795-4076	NA
	89	8 x 14mm	6 x 12mm	4 x 9mm	0	35	4795-4089	4799-4089
	102	9 x 14mm	9 x 12mm	3 x 10mm	0	35	4795-4002	4799-4002
	115	9 x 14mm	9 x 12mm	4 x 11mm	0	35	4795-4015	4799-4015
	127	10 x 14mm	10 x 12mm	5 x 11mm	0	35	NA	4799-4027

### P45 (T45) & P51(T51) - DROP CENTRE RETRAC

	DIA (D) MM	GAUGE CARBIDES	FACE CARBIDES	FACE FLUSHING	SIDE FLUSHING	GAUGE ANGLE	P45 CAT. NUMBER	P51 CAT. NUMBER
	76	8 x 12mm	5 x 11mm	4 x 8mm	0	35	4795-4276	NA
	89	8 x 14mm	6 x 12mm	4 x 9mm	0	35	4795-4289	4799-4289
	102	9 x 14mm	9 x 12mm	3 x 10mm	0	35	4795-4202	4799-4202
	115	9 x 14mm	9 x 12mm	4 x 11mm	0	35	4795-4215	4799-4215
	127	10 x 14mm	10 x 12mm	5 x 11mm	0	35	NA	4799-4227

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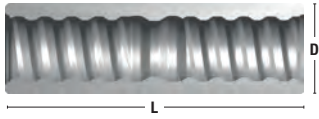
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# P45 EXTENSION DRILLING EQUIPMENT

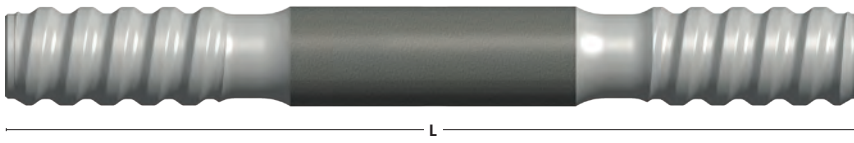
## THREAD SIZES P45

### COUPLINGS



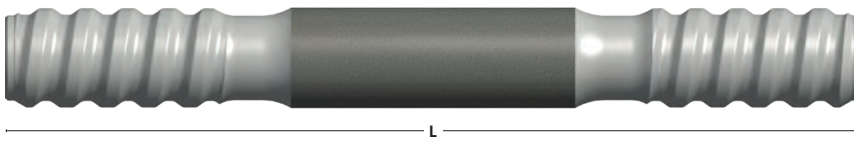
DIA (D) MM	LENG (L) MM	DESCRIPTION	CAT. NUMBER
63	207	SEMI-BRIDGE	5695-0001

### 45mm (1 3/4") ROUND - CARBURISED



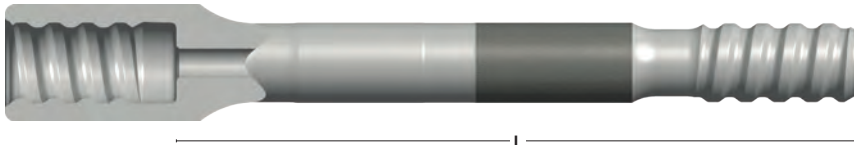
LENGTH (L)	CAT. NUMBER
1220mm (4')	5695-4512C
1525mm (5')	5695-4515C
1830mm (6')	5695-4518C
3050mm (10')	5695-4531C
3660mm (12')	5695-4536C
4265mm (14')	5695-4543C
6095mm (20')	5695-4561C

### 45mm (1 3/4") ROUND - SURFACE HARDENED



LENGTH (L)	CAT. NUMBER
3050mm (10')	5695-4531SH
3660mm (12')	5695-4536SH
4265mm (14')	5695-4543SH
6095mm (20')	5695-4561SH

### MALE/FEMALE SPEEDRODS 45mm (1 3/4") - ROUND



LENGTH (L)	CAT. NUMBER
1220mm (4')	5895-4512MF
1525mm (5')	5895-4515MF
1830mm (6')	5895-4518MF
3050mm (10')	5895-4531MF
3660mm (12')	5895-4536MF
4265mm (14')	5895-4543MF
6095mm (20')	5895-4561MF

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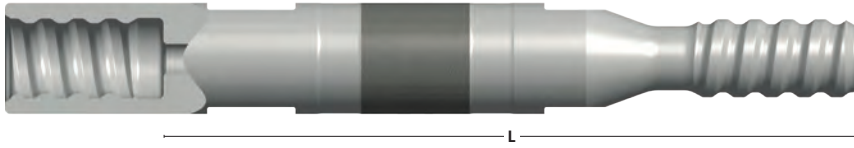
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# P45 EXTENSION DRILLING EQUIPMENT

THREAD SIZES P45

## GUIDE TUBES

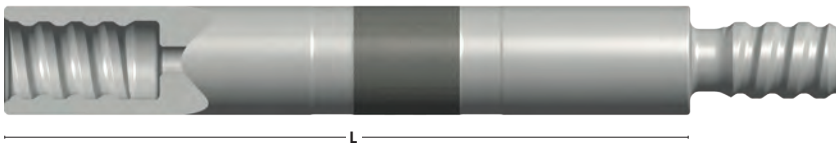
Ø 16mm Flushing hole



LENGTH (L)	CAT. NUMBER
1220MM (4')	5695-6412
1525MM (5')	5695-6415
1830MM (6')	5695-6418
3660MM (12')	5695-6436
1830MM (6')	5695-7618
3660MM (12')	5695-7636

## LONG HOLE DRILLING TOOLS - SHOULDER DRIVE TUBES

Ø 16mm Flushing hole



LENGTH (L)	CAT. NUMBER
1525mm (5')	5695-6415SD
1830mm (6')	5695-6418SD

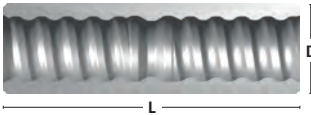
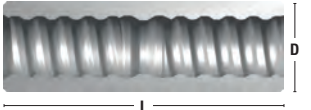
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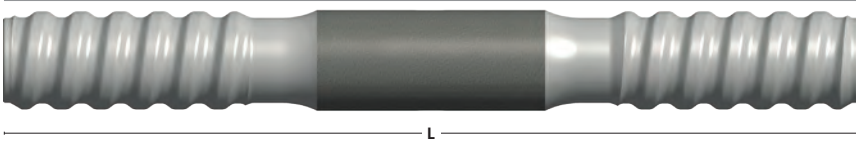
# P51 EXTENSION DRILLING EQUIPMENT

## THREAD SIZES P51

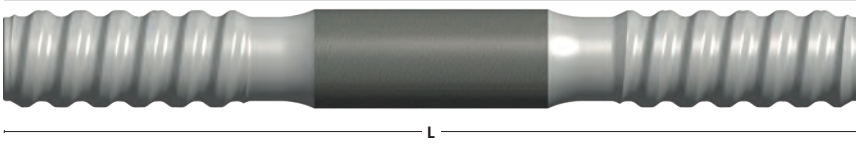
### COUPLINGS

	DIA (D) MM	LENG (L) MM	DESCRIPTION	CAT. NUMBER
	72	234	SEMI-BRIDGE	5599-0001
	76	234	SEMI-BRIDGE HEAVY DUTY	5599-0003


### 51mm (2") ROUND - CARBURISED

	LENGTH (L)	CAT. NUMBER
	600mm	5699-5106C
	1830mm (6')	5699-5118C
	3050mm (10')	5699-5131C
	3660mm (12')	5699-5136C
	4265mm (14')	5699-5143C
	4800mm	5699-5148C
	6095mm (20')	5699-5161C

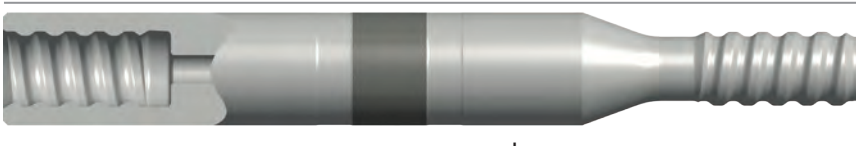
### 51mm (2") ROUND - SURFACE HARDENED

	LENGTH (L)	CAT. NUMBER
	3050mm (10')	5699-5131SH
	3660mm (12')	5699-5136SH
	4265mm (14')	5699-5143SH
	6095mm (20')	5699-5161SH
	7315mm (24')	5699-5173SH

### MALE/FEMALE SPEEDRODS 51mm (2") - ROUND

	LENGTH (L)	CAT. NUMBER
	915mm (3')	5899-5109MF
	1830mm (6')	5899-5118MF
	3050mm (10')	5899-5131MF
	3660mm (12')	5899-5136MF
	4265mm (14')	5899-5143MF
	4800mm (?)	5899-5148MF
	6095mm (20')	5899-5161MF

### GUIDE TUBES

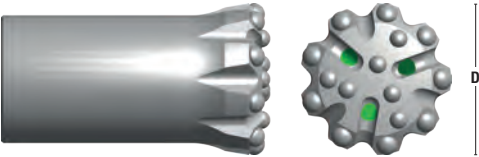
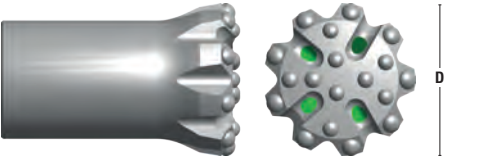
	LENGTH (L)	CAT. NUMBER
	915mm (3')	5699-7609
	1830mm (6')	5699-7618
	3660mm (12')	5699-7636
	1830mm (6')	5699-8718
	3660mm (12')	5699-8736

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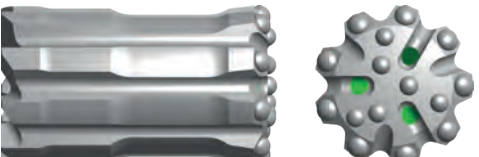
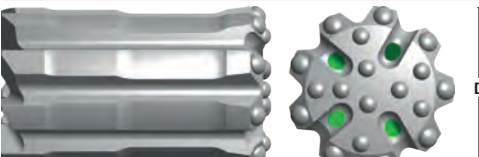
# P60 EXTENSION DRILLING EQUIPMENT

THREAD SIZES P60

## P60 (ST58 BOTTOM DRIVE) - GROOVED FACE

	DIA (D) MM	GAUGE CARBIDES	FACE CARBIDES	FACE FLUSHING	SIDE FLUSHING	GAUGE ANGLE	P60 CAT. NUMBER
	92	9 x 12mm	6 x 12mm	3 x 11mm	0	35	4760-3092
	102	9 x 14mm	6 x 12mm	3 x 11mm	0	35	4760-3002
	115	9 x 14mm	9 x 12mm	4 x 11mm	0	35	4760-3015
	127	10 x 14mm	10 x 12mm	5 x 11mm	0	35	4760-3027

## P60 (ST58 BOTTOM DRIVE) - GROOVED FACE RETRAC

	DIA (D) MM	GAUGE CARBIDES	FACE CARBIDES	FACE FLUSHING	SIDE FLUSHING	GAUGE ANGLE	P60 CAT. NUMBER
	92	9 x 12mm	6 x 12mm	3 x 11mm	0	35	4760-3292
	102	9 x 14mm	6 x 12mm	3 x 11mm	0	35	4760-3202
	115	9 x 14mm	9 x 12mm	4 x 11mm	0	35	4760-3215
	127	10 x 14mm	10 x 12mm	5 x 11mm	0	35	4760-3227

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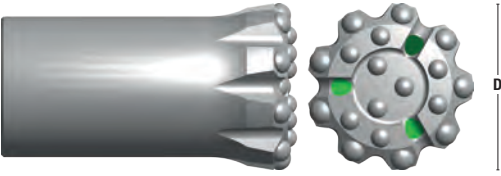
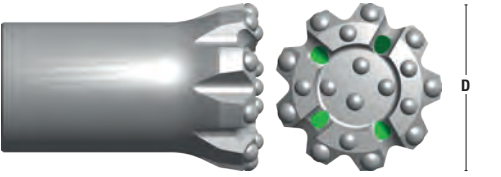
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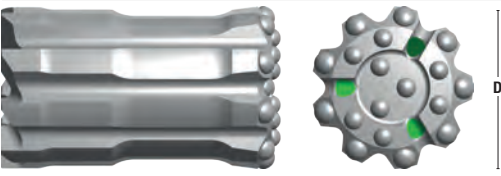
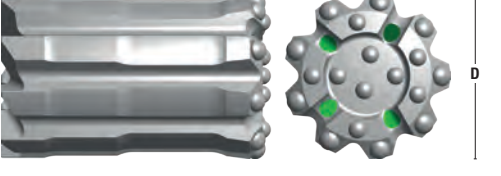
# P60 EXTENSION DRILLING EQUIPMENT

## THREAD SIZES P60

### P60 (ST58 BOTTOM DRIVE) - DROP CENTRE

	DIA (D) MM	GAUGE CARBIDES	FACE CARBIDES	FACE FLUSHING	SIDE FLUSHING	GAUGE ANGLE	P60 CAT. NUMBER
	92	9 x 12mm	6 x 12mm	3 x 11mm	0	35	4760-4092
	102	9 x 14mm	9 x 12mm	3 x 11mm	0	35	4760-4002
	115	9 x 14mm	9 x 12mm	4 x 11mm	0	35	4760-4015
	127	10 x 14mm	10 x 12mm	5 x 11mm	0	35	4760-4027

### P60 (ST58 BOTTOM DRIVE) - DROP CENTRE RETRAC

	DIA (D) MM	GAUGE CARBIDES	FACE CARBIDES	FACE FLUSHING	SIDE FLUSHING	GAUGE ANGLE	P60 CAT. NUMBER
	102	9 x 14mm	9 x 12mm	3 x 11mm	0	35	4760-4202
	115	9 x 14mm	9 x 12mm	4 x 11mm	0	35	4760-4215
	127	10 x 14mm	10 x 12mm	5 x 11mm	0	35	4760-4227

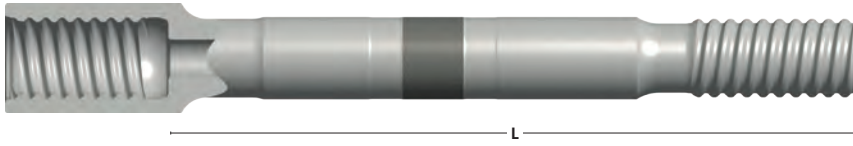
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# P60 EXTENSION DRILLING EQUIPMENT

THREAD SIZES P60

## P60 THREADED RODS

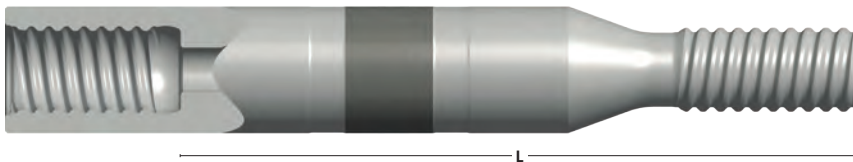
Ø 22mm Flushing hole



LENGTH (L)	CAT. NUMBER
MF ROD 3.1m	5860-6131MF
MF ROD 3.6m	5860-6136MF
MF ROD 4.3m	5860-6143MF
MF ROD 5.5m	5860-6155MF
MF ROD 6.1m	5860-6161MF

## GUIDE RODS

Ø 22mm Flushing hole



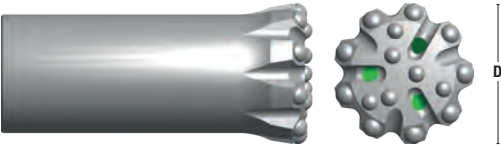

LENGTH (L)	CAT. NUMBER
3660mm (12')	5660-7636
4265mm (14')	5660-8743

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# CT60 EXTENSION DRILLING EQUIPMENT

## THREAD SIZES CT60

### CT60 - (COLLARED 'T' THREAD) GROOVED FACE

	DIA (D) MM	GAUGE CARBIDES	FACE CARBIDES	FACE FLUSHING	SIDE FLUSHING	GAUGE ANGLE	CT60 CAT. NUMBER
	92	9 x 12mm	6 x 12mm	3 x 11mm	0	35	4790-3092
	102	9 x 14mm	6 x 12mm	3 x 11mm	0	35	4790-3002
	115	9 x 14mm	9 x 12mm	4 x 11mm	0	35	4790-3015
	127	10 x 14mm	10 x 12mm	5 x 11mm	0	35	4790-3027

### CT60 - (COLLARED 'T' THREAD) GROOVED FACE RETRAC

	DIA (D) MM	GAUGE CARBIDES	FACE CARBIDES	FACE FLUSHING	SIDE FLUSHING	GAUGE ANGLE	CT60 CAT. NUMBER
	92	9 x 12mm	6 x 12mm	3 x 11mm	0	35	4790-3292
	102	9 x 14mm	6 x 12mm	3 x 11mm	0	35	4790-3202
	115	9 x 14mm	9 x 12mm	4 x 11mm	0	35	4790-3215
	127	10 x 14mm	10 x 12mm	5 x 11mm	0	35	4790-3227

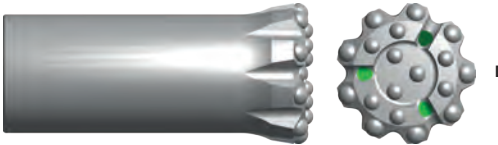
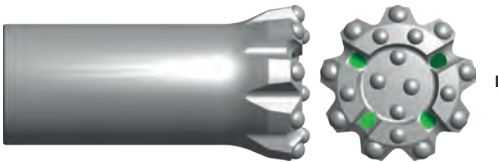
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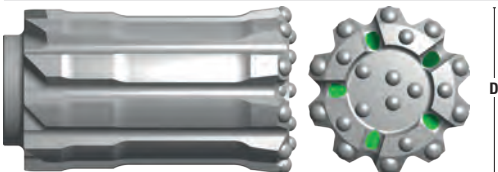
# CT60 EXTENSION DRILLING EQUIPMENT

## THREAD SIZES CT60

### CT60 - (COLLARED 'T' THREAD) DROP CENTRE

	DIA (D) MM	GAUGE CARBIDES	FACE CARBIDES	FACE FLUSHING	SIDE FLUSHING	GAUGE ANGLE	CT60 CAT. NUMBER
	92	9 x 12mm	6 x 12mm	3 x 11mm	0	35	4790-4092
	102	9 x 14mm	9 x 12mm	3 x 11mm	0	35	4790-4002
	115	9 x 14mm	9 x 12mm	4 x 11mm	0	35	4790-4015
	127	10 x 14mm	10 x 12mm	5 x 11mm	0	35	4790-4027

### CT60 - (COLLARED 'T' THREAD) DROP CENTRE RETRAC

	DIA (D) MM	GAUGE CARBIDES	FACE CARBIDES	FACE FLUSHING	SIDE FLUSHING	GAUGE ANGLE	CT60 CAT. NUMBER
	102	9 x 14mm	9 x 12mm	3 x 11mm	0	35	4790-4202
	115	9 x 14mm	9 x 12mm	4 x 11mm	0	35	4790-4215
	127	10 x 14mm	10 x 12mm	5 x 11mm	0	35	4790-4227

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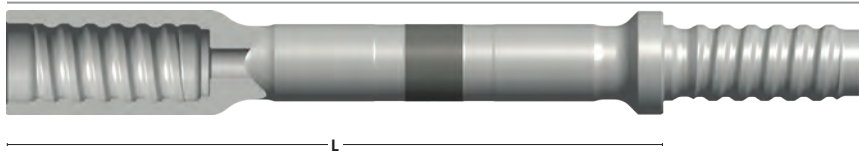
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# CT60 EXTENSION DRILLING EQUIPMENT

## THREAD SIZES CT60

### CT60 RODS, 82mm FEMALE

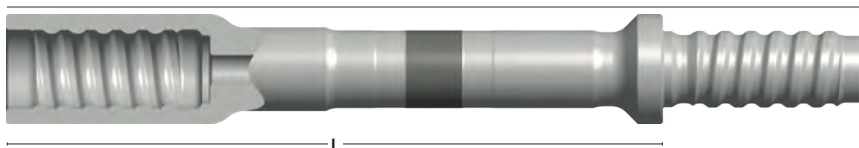
Ø 22mm Flushing hole



	LENGTH (L)	CAT. NUMBER
	MF ROD 3600mm (11' 9 3/4")	5890-6136MF
	MF ROD 4265mm (14')	5890-6143MF
	MF ROD 6100mm (20' 3/8")	5890-6161MF

### CT60 MF RODS, 85mm FEMALE

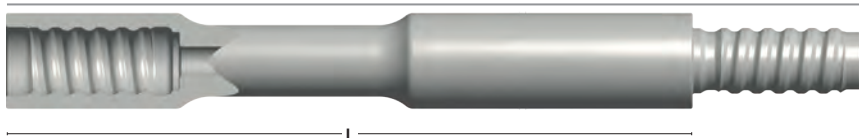
Ø 25mm Flushing hole



	LENGTH (L)	CAT. NUMBER
	MF ROD 3600mm (11' 9 3/4")	5891-6136MF
	MF ROD 4265mm (14')	5891-6143MF
	MF ROD 6100mm (20' 3/8")	5891-6161MF

### PILOT TUBE

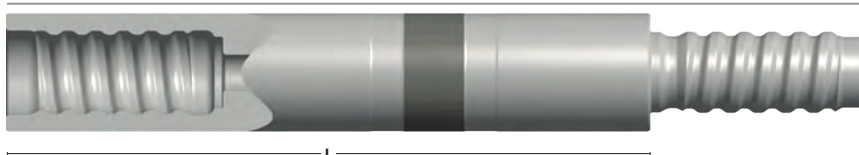
Ø 25mm Flushing hole



	DIA (D) MM	LENGTH (L)	CAT. NUMBER
	87	4265mm (14')	5890-8743-R
	76	5335mm (17')	5890-7653-R

### DRILL TUBE

Ø 25mm Flushing hole



	DIA (D) MM	LENGTH (L)	CAT. NUMBER
	87	4265mm (14')	5690-8743

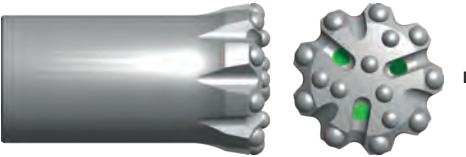
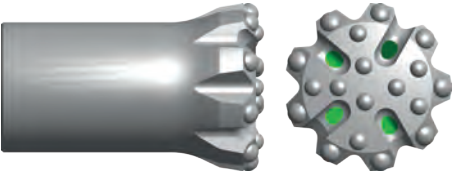
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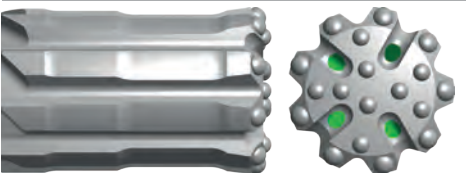
# P58/P68 EXTENSION DRILLING EQUIPMENT

THREAD SIZES P58/P68

## P58 (ST58) & P68 (ST68) (SHOULDER DRIVE / TUBULAR DRILLING) - GROOVED FACE

	DIA (D) MM	GAUGE CARBIDES	FACE CARBIDES	FACE FLUSHING	SIDE FLUSHING	GAUGE ANGLE	P58 CAT. NUMBER	P68 CAT. NUMBER
	92	9 x 12mm	6 x 12mm	3 x 11mm	0	35	4758-3092	NA
	102	9 x 14mm	6 x 12mm	3 x 11mm	0	35	4758-3002	4768-3002
	115	9 x 14mm	9 x 12mm	4 x 11mm	0	35	4758-3015	4768-3015
	127	10 x 14mm	10 x 12mm	5 x 11mm	0	35	4758-3027	4768-3027

## P58 (ST58) & P68 (ST68) (SHOULDER DRIVE / TUBULAR DRILLING) - GROOVED FACE RETRAC

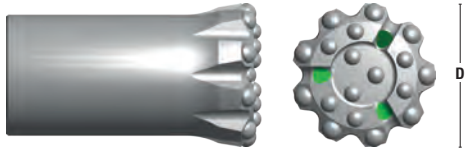
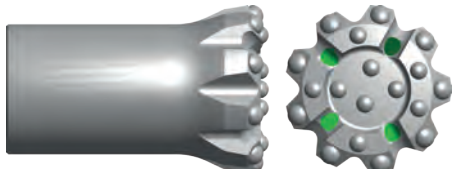
	DIA (D) MM	GAUGE CARBIDES	FACE CARBIDES	FACE FLUSHING	SIDE FLUSHING	GAUGE ANGLE	P58 CAT. NUMBER	P68 CAT. NUMBER
	92	9 x 12mm	6 x 12mm	3 x 11mm	0	35	4758-3292	NA
	102	9 x 14mm	6 x 12mm	3 x 11mm	0	35	4758-3202	4768-3202
	115	9 x 14mm	9 x 12mm	4 x 11mm	0	35	4758-3215	4768-3215
	127	10 x 14mm	10 x 12mm	5 x 11mm	0	35	4758-3227	4768-3227

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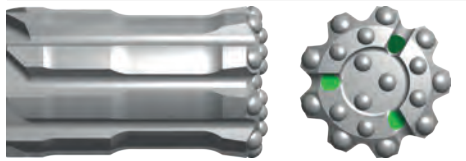
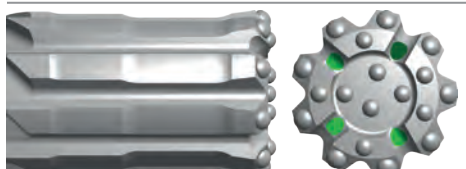
# P58/P68 EXTENSION DRILLING EQUIPMENT

## THREAD SIZES P58/P68

### P58 (ST58) & P68 (ST68) (SHOULDER DRIVE / TUBULAR DRILLING) - DROP CENTRE

	DIA (D) MM	GAUGE CARBIDES	FACE CARBIDES	FACE FLUSHING	SIDE FLUSHING	GAUGE ANGLE	P58 CAT. NUMBER	P68 CAT. NUMBER
	92	9 x 12mm	6 x 12mm	3 x 11mm	0	35	4758-4092	NA
	102	9 x 14mm	9 x 12mm	3 x 11mm	0	35	4758-4002	4768-4002
	115	9 x 14mm	9 x 12mm	4 x 11mm	0	35	4758-4015	4768-4015
	127	10 x 14mm	10 x 12mm	5 x 11mm	0	35	4758-4027	4768-4027

### P58 (ST58) & P68 (ST68) (SHOULDER DRIVE / TUBULAR DRILLING) - DROP CENTRE RETRAC

	DIA (D) MM	GAUGE CARBIDES	FACE CARBIDES	FACE FLUSHING	SIDE FLUSHING	GAUGE ANGLE	P58 CAT. NUMBER	P68 CAT. NUMBER
	92	9 x 12mm	6 x 12mm	3 x 11mm	0	35	4758-4292	NA
	102	9 x 14mm	9 x 12mm	3 x 11mm	0	35	4758-4202	4768-4202
	115	9 x 14mm	9 x 12mm	4 x 11mm	0	35	4758-4215	4768-4215
	127	10 x 14mm	10 x 12mm	5 x 11mm	0	35	4758-4227	4768-4227

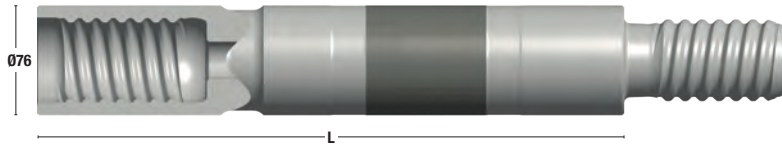
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# P58/P68 EXTENSION DRILLING EQUIPMENT

THREAD SIZES P58/P68

## P58 THREAD - SHOULDER DRIVE TUBES

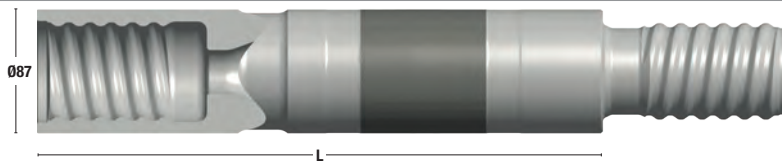
Ø 26mm Flushing hole



DIA (D) MM	LENGTH (L)	CAT. NUMBER
76	1220mm (4') DRILL TUBE	5658-7615SD
76	1830mm (6') DRILL TUBE	5658-7618SD

## P68 THREAD - SHOULDER DRIVE TUBES

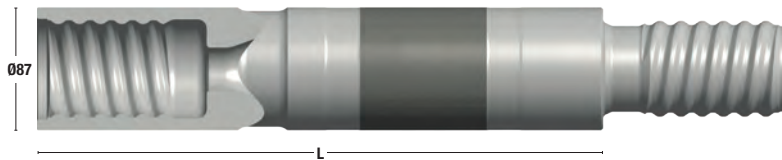
Ø 30mm Flushing hole



DIA (D) MM	LENGTH (L)	CAT. NUMBER
87	1220mm (4') DRILL TUBE	5668-8712SD
87	1525mm (5') DRILL TUBE	5668-8715SD
87	1830mm (6') DRILL TUBE	5668-8718SD

## TUBES - WITH BACK FLOW WATER VALVE

Ø 30mm Flushing hole



DIA (D) MM	LENGTH (L)	CAT. NUMBER
87	1220mm (4') DRILL TUBE	5668-8712SDV
87	1525mm (5') DRILL TUBE	5668-8715SDV
87	1830mm (6') DRILL TUBE	5668-8718SDV

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SHANKS	THREAD	TUBE SIZE MM	LENGTH MM	CATALOGUE NUMBER	FIGURE NUMBER
HEX. 108x22mm	R25	5	255	5425-2203-03	01
HEX. 108x25mm	R25	5	255	5425-2503-03	02
GD D93L, DH99; A/C BBC41 A/COPCO BBC41, 43, 45, 100	R32	8	381	5432-1501-08	03
	R25	10	381	5425-1501-10	
	R32	10	381	5432-1501-10	
A/COPCO BBC51, 52, 54, 120	R32	10	381	5432-1503-10	04
	R38	10	381	5438-1503-10	
	P38	10	381	5488-1503-10	
VL120, 130, 140 HOLMAN 115R TAMROCK L750 GD PR123, IR URD475, 550 TAMROCK L750 FURUKAWA M120	R32	14	356	5432-1417-14	05
	R38	14	356	5438-1417-14	
	P38	14	356	5488-1417-14	
	R32	14	387	5432-1517-14	
	P38	14	387	5488-1517-14	
<b>ATLAS COPCO</b>					
BBE57, MONT H100	P38	14	537	5488-2108-14	06
	P45	14	537	5495-2108-14	
COP125, 130, 131	R32	14	405	5432-1618-14	07
	P38	14	381	5488-1518-14	
COP131EB	P38	14	381	5488-15118-14	08
1028HB	R28		400	5428-1655-00	09
	R32		400	5432-1655-00	
COP1038 HD, 1038 HL, COP1038 HD, COP1238, COP1036HB, 1038HB, 1238 COP1038HL, 1238	R38	485	5438-1929-00	10	
	P38	485	5488-1929-00		
	P38	500	5488-2029-00		
	P45	500	5495-2029-00		
	R32	575	5432-2329-00		
	P38	575	5488-2329-00		
	P45	575	5495-2329-00		
	P45	590	5495-2429-00		
COP1038(COLLAR)	R32	575	5432-2386-00	11	
	P38	575	5488-2386-00		
COP1036HB, 1038HB, 1238 (COLLAR)	R32	575	5432-2376-00	12	
	R38	575	5438-2376-00		
	P38	575	5488-2376-00		
	P45	575	5495-2376-00		
COP1132	R28	410	5428-16181-00	13	
	R32	410	5432-16181-00		
	P35	410	5485-16181-00		
	R32	500	5432-20181-00		
COP1132 (FEM.)	R32	500	5485-20181-00	14	
	P35	500	5485-20181-00		
COP1432, COP1532 FEM.	R32F	280	5432-11203-00	15	
	R32F	341	5432-13147-00		
	R38F	341	5438-13147-00		
COP1338 EXTRACTOR	P38F	341	5488-13147-00	16	
	R32	780	5432-31121-00		
	P38	780	5488-31121-00		
COP1435	P45	780	5495-31121-00	17	
	R32	410	5432-16235-00		
	P35	410	5485-16235-00		
	R32	500	5432-20235-00		
	P35	500	5485-20235-00		

SHANKS	THREAD	TUBE SIZE MM	LENGTH MM	CATALOGUE NUMBER	FIGURE NUMBER
COP1440, COP1550, COP1638, COP1838, COP2238	R32		435	5432-1762-00	18
	P35		435	5485-1762-00	
	R38		435	5438-1762-00	
	P38		435	5488-1762-00	
	R32		525	5432-2162-00	
	P35		525	5485-2162-00	
	R38		525	5438-2162-00	
	P38		525	5488-2162-00	
COP1440, COP1550, 1838HD (D=52mm)	R32		525	5432-2163-00	19
	P35		525	5485-2163-00	
	P38		525	5488-2163-00	
	P45		525	5495-2163-00	
	P51		525	5499-2163-00	
COP1838MUX	P38		730	5488-29221-00	20
	P45		730	5495-29221-00	
COP 1838EX	P38		730	5488-29126-00	21
	P45		730	5495-29126-00	
COP 1850, 1840HE, 2150HE	P51		565	5495-22127-00	22
	P51		770	5499-30127-00	
COP 2150/2550 (STRAIGHT SPLINE)	P51		770	5499-30227-00	23
COP 1240/1640/1840/ 1850/2150/2550HEX	P38		770	5488-30129-00	24
	P45		770	5495-30129-00	
	P51		770	5499-30129-00	
COP 2160/2560 EXTRACTOR	P51		770	5499-30204-00	25
	CT60		770	5490-30204-00	
COP 3038	P38		435	5488-17183-00	26
	P45		435	5495-17183-00	
	P38		525	5488-21183-00	
COP 3038HE (Helical)	P38		435	5488-17224-00	27
	P45		435	5495-17224-00	
	P38		525	5488-21224-00	
COP4050 MUX	P58		835	5458-33199-00	28
	P68		835	5468-33199-00	
<b>BOART</b>					
HD65 (female)	R32F		324	5432-13226-00	29
HD65	R32		445	5432-1868-00	30
HD125, HD150	R32		495	5432-2048-00	31
	R38		495	5438-2048-00	
	P38		495	5488-2048-00	
<b>CANNON</b>					
CH38 (JOYJH-2) (55mm Body, Fem.)	P38F		390	5488-15200-00	32
CH38 (JOYJH-2) (55mm Body)	P45		525	5495-21201-00	33
CH38 (JOYJH-2) (38mm Body)	P38		444	5488-17195-00	34
JOY VCR260 /360	P38	16	432	5488-1747-16	35
<b>DOOFOR</b>					
DF425/430S	R25		400	5425-16210-00	36
	R28		400	5428-16210-00	
DF528	R32		424	5432-17234-00	37
DF528HD	R32		470	5432-19135-00	38
	R38		470	5438-19135-00	
	P38		470	5488-19135-00	
DF545	R32		515	5432-20233-00	39
	R38		515	5438-20233-00	
	P38		515	5488-20233-00	

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SHANKS	THREAD	TUBE SIZE MM	LENGTH MM	CATALOGUE NUMBER	FIGURE NUMBER
DF545HD	R32		515	5432-20236-00	40
	R38		515	5438-20236-00	
	P38		515	5488-20236-00	
	P45		515	5495-20236-00	
DF545EXT	R32		582	5432-23237-00	41
	R38		582	5438-23237-00	
	P38		582	5488-23237-00	
DF545EXT HD	R32		582	5432-23239-00	42
	R38		582	5438-23239-00	
	P38		582	5488-23239-00	
	P45		582	5495-23239-00	
<b>FURUKAWA</b>					
PD200 (H/D CHUCK)	R38	14	381	5438-1514-14	43
	P38	14	381	5488-1514-14	
	P45	14	381	5495-1514-14	
HD90	P38		512	5488-20107-00	44
HD150	R38		520	5438-21117-00	45
	P38		520	5488-21117-00	
HD180	P38	14	455	5488-1809-14	46
HD190	R38		480	5438-19109-00	47
	P38		480	5488-19109-00	
HD210	P38		430	5488-17215-00	48
HD260, HD300	P38	16	655	5488-2620-16	49
	P45	16	655	5495-2620-16	
HD500 (6 SPLINE)	P38	16	625	5488-25148-16	50
	P45	16	625	5495-25148-16	
HD609	P38		615	5488-2490-00	51
	P45		615	5495-2490-00	
	P38		690	5488-2790-00	
	P45		690	5495-2790-00	
HD609QED	P38		860	5488-34132-00	52
	P45		860	5495-34132-00	
HD612	P45		710	5495-28112-00	53
	P51		710	5499-28112-00	
HD612QED	P45		900	5495-36134-00	54
	P51		900	5499-36134-00	
HD615	P51		880	5499-35136-00	55
HD615QED	P51		880	5499-35139-00	56
HD709	P45		620	5499-24177-00	57
HD709QED	P45		800	5495-31180-00	58
HD712	P45		590	5495-23161-00	59
	P51		590	5499-23161-00	
	P45		790	5499-31161-00	
	P51		790	5499-31161-00	
HD712QED	P45		880	5495-35164-00	60
	P51		880	5499-35164-00	
HD715	P51		790	5499-31167-00	61
HD715QED	P51		885	5499-35175-00	62

SHANKS	THREAD	TUBE SIZE MM	LENGTH MM	CATALOGUE NUMBER	FIGURE NUMBER
<b>INGERSOLL RAND</b>					
YD90M	R32	10	330	5432-1333-10	63
YH65, 70, 75, 80	P38	19	496	5488-2083-19	64
	P45	19	496	5495-2083-19	
	P38	19	700	5495-2483-19	
YH65RP, 80RP	P38	19	700	5488-2892-19	65
	P45	19	700	5495-2892-19	
YH80A	P45	19	500	5495-20114-19	66
YH 95,100	P45	22	622	5495-2584-22	67
	P51	22	622	5499-2584-22	
YH110VRP	P45		900	5495-35104-00	68
	P51		900	5499-35104-00	
<b>MONTABERT</b>					
HC20 (D=45mm) FEM.	R32F		187	5432-07202-00	69
HC20 (D=45mm)	R32		287	5432-11194-00	70
	R32		287	5432-11207-00	
HC25 (D=45mm)	P35		287	5485-11207-00	71
	R38		287	5438-11207-00	
	P38		287	5488-11207-00	
HC25 (D=45mm) FEM.	R32		202	5432-08208-00	72
HC40/HC50 (D=38mm)	R32		381	5432-1564-00	73
	P35		381	5485-1564-00	
	R38		381	5438-1564-00	
	P38		381	5488-1564-00	
	R32		438	5432-1764-00	
	P35		438	5485-1764-00	
HC40 FEMALE (D=45mm)	R38		438	5438-1764-00	74
	P38		438	5488-1764-00	
	R32		270	5432-1099-00	
HC80, HC90, HC105 (D=38mm)	R38		440	5438-1756-00	75
	P38		440	5488-1756-00	
	R38		508	5438-2056-00	
	P38		508	5488-2056-00	
HC80, HC110, HC120 (D=45mm)	R38		415	5438-1657-00	76
	P38		415	5488-1657-00	
	P45		425	5495-1757-00	
	R38		460	5438-1857-00	
	P38		460	5488-1857-00	
	R38		490	5438-1957-00	
	P38		490	5488-1957-00	
	P45		490	5495-1957-00	
	R38		530	5438-2157-00	
	P38		530	5488-2157-00	
HC80R, HC105R, HC107R, HC108R, HC109R, HC110R, HC120R (D=45mm)	P45		530	5495-2157-00	77
	P35		670	5485-2795-00	
	P38		670	5488-2795-00	
	P45		670	5495-2795-00	
	P45		770	5495-3095-00	

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SHANKS	THREAD	TUBE SIZE MM	LENGTH MM	CATALOGUE NUMBER	FIGURE NUMBER
HC120R, HC150R, HC155R, HC158R (D=51mm)	P45		670	5495-27131-00	78
	P51		670	5499-27131-00	
	P45		770	5495-30131-00	
	P51		770	5499-30131-00	
HC160, 170	P45		807	5495-32152-00	79
	P51		807	5499-32152-00	
	CT60		807	5490-32152-00	
HC200A	P51		840	5499-33133-00	80
	P60		840	5460-33133-00	
	CT60		840	5490-33133-00	

## TAMROCK

HL300S FEM.	R32		245	5432-1096-00	81
HL300	R32		400	5432-1612-00	82
	R32		500	5432-2012-00	
L400, L410, L500, L510	R32	10	381	5432-1519-10	83
HLR438, L550	R38	12	381	5438-1535-12	84
	P38	12	381	5488-1535-12	
HL438TS, HL538	R38		450	5438-1835-00	85
	P38		450	5488-1835-00	
	R32		495	5432-2035-00	
	R38		495	5438-2035-00	
HL500 S, HL510 S (D=38mm)	R38		495	5488-2035-00	86
	R32		450	5432-1881-00	
	R38		450	5438-1881-00	
	P38		450	5488-1881-00	
	P38		500	5488-2081-00	
HL500, HL510 (D=45mm)	P38		550	5488-2281-00	87
	R32		550	5432-22128-00	
	P35		550	5485-22128-00	
	P38		550	5488-22128-00	
HL500 (FEM.)	P45		550	5495-22128-00	88
	R32		350	5432-1481-00	
	P35		460	5485-1882-00	
	R38		460	5438-1882-00	
	P38		460	5488-1882-00	
HL550 SUPER, 560 SUPER	P35		500	5485-2082-00	89
	R38		500	5438-2082-00	
	P38		500	5488-2082-00	
	P38		500	5488-2082-00	
	P45		500	5495-2082-00	
HLX1	R25		255	5425-10231-00	90
	R28		255	5428-10231-00	
RD314 (FEM.)	R32		205	5432-08223-00	91
RD520/RD525	P38		525	5488-21228-00	92
	P35		600	5485-24228-00	
	P38		600	5488-24228-00	
	P35		745	5485-29228-00	
	P38		745	5488-29228-00	

SHANKS	THREAD	TUBE SIZE MM	LENGTH MM	CATALOGUE NUMBER	FIGURE NUMBER
HLX5/HFX5T	R32		500	5432-20150-00	93
	P35		500	5485-20150-00	
	R38		500	5438-20150-00	
	P38		500	5488-20150-00	
	P45		500	5495-20150-00	
	R32		575	5432-23150-00	
	P35		575	5485-23150-00	
	P38		575	5488-23150-00	
	P45		575	5495-23150-00	
	P35		720	5485-28150-00	
HL600 (D=45mm)	P38		720	5488-28150-00	94
	P38		525	5488-2167-00	
	P45		525	5495-2167-00	
HL600 (D=52mm)	P38		600	5488-2467-00	95
	P45		600	5495-2467-00	
HL700/HL710/HL800T/HF810T/HL650 (D=45mm)	P45		650	5495-2697-00	96
	P51		650	5499-2697-00	
	P38		600	5488-24120-00	
HL700, HL710, HL800, HF810, HL650, HL810 (D=52mm)	P45		600	5495-24120-00	97
	P51		600	5499-24120-00	
	P38		600	5488-24125-00	
HL1000, HL1010, HL1010S (D=52mm)	P45		590	5495-2360-00	98
	P51		590	5499-2360-00	
	P45		670	5495-2660-00	
	P51		670	5499-2660-00	
HL1000, HL1010 (D=60mm)	P51		670	5499-26162-00	99
	P60		670	5460-26162-00	
	CT60		670	5490-26162-00	
HL1000 (80mm) HL1010 (SHOULDER DRIVE)	P58		635	5458-25110-00	100
	P68		635	5468-25110-00	
HL1000 EXTRACTOR (D=52mm)	P51		840	5499-33101-00	101
	P51		760	5499-30140-00	
HL1500 (D=60mm)	P60		760	5460-30140-00	102
	CT60		760	5490-30140-00	
	P58		635	5458-25158-00	
HL1500 (D=80mm) (SHOULDER DRIVE)	P68		635	5468-25158-00	103
	P58		635	5458-25158-00	
HL1500 (D=80mm) (SHOULDER DRIVE w/COLLAR)	CT60		760	5490-30158-00	104
	P51		760	5499-30166-00	
HL1500PE, 1000PE, 1560T (D=65mm)	P60		760	5460-30166-00	105
	CT60		760	5490-30166-00	
	P60		760	5460-30166-00	

# SHANK ADAPTORS

**FIGURE 01**

108 X 22MM (4 1/4" X 7/8") - HEXAGON



THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
R25	5	255	5425-2203-03	1.2

**FIGURE 02**

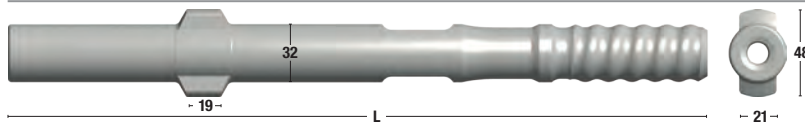
108 X 25MM (4 1/4" X 1") - HEXAGON



THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
R25	5	255	5425-2503-03	1.3

**FIGURE 03**

GD D93L, DH99; A/C BBC41, A/COPCO BBC41, 43, 45, 100



THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
R32	8	381	5432-1501-08	2
R25	10	381	5425-1501-10	2
R32	10	381	5432-1501-10	2

**FIGURE 04**

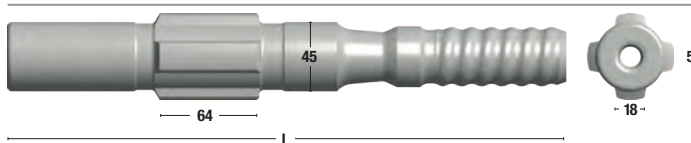
A/COPCO BBC51, 52, 54, 120



THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
R32	10	381	5432-1503-10	3
R38	10	381	5438-1503-10	3
P38	10	381	5488-1503-10	3

**FIGURE 05**

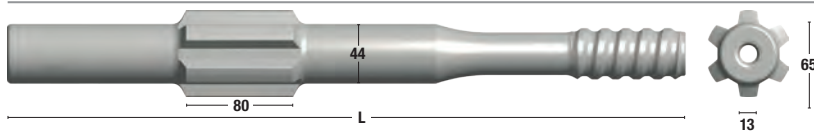
VL120, 130, 140, HOLMAN 115R, TAMROCK L750, GD PR123, IR URD475, 550, TAMROCK L750, FURUKAWA M120



THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
R32	14	356	5432-1417-14	3.5
R38	14	356	5438-1417-14	3.5
P38	14	356	5488-1417-14	3.5
R32	14	387	5432-1517-14	4
P38	14	387	5488-1517-14	4

**FIGURE 06 - ATLAS COPCO**

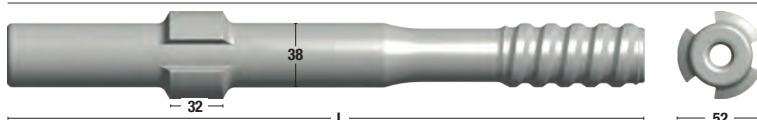
BBE57, MONT H100



THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
P38	14	537	5488-2108-14	5
P45	14	537	5495-2108-14	5

**FIGURE 07 - ATLAS COPCO**

COP125, 130, 131



THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
R32	14	405	5432-1618-14	3
P38	14	381	5488-1518-14	3

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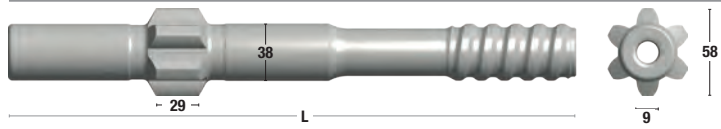
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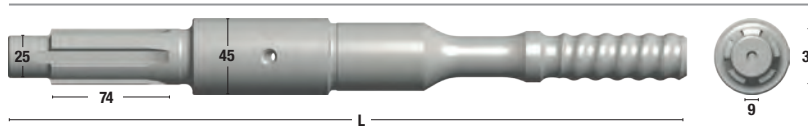
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## THREAD SIZES ETC


### FIGURE 08 - ATLAS COPCO

COP131EB	THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
	P38	14	381	5488-15118-14	3.2

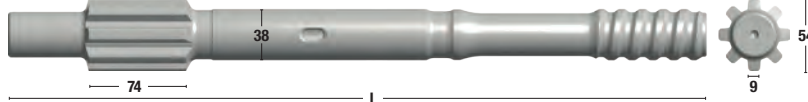
### FIGURE 09 - ATLAS COPCO

1028HB	THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
	R28		400	5428-1655-00	2.8
	R32		400	5432-1655-00	2.8


### FIGURE 10 - ATLAS COPCO

COP1038 HD, 1038 HL, COP1038 HD, COP1238, COP1036HB, 1038HB, 1238, COP1038HL, 1238	THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
	R38		485	5438-1929-00	4
	P38		485	5488-1929-00	4
	P38		500	5488-2029-00	4.5
	P45		500	5495-2029-00	4.5
	R32		575	5432-2329-00	5
	P38		575	5488-2329-00	5.2
	P45		575	5495-2329-00	5.5
	P45		590	5495-2429-00	5.8

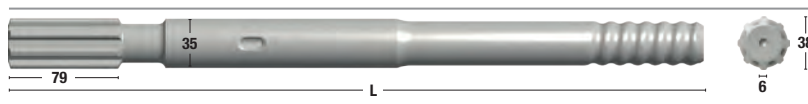
### FIGURE 11 - ATLAS COPCO

COP1038 (COLLAR)	THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
	R32		575	5432-2386-00	?
	P38		575	5488-2386-00	?

### FIGURE 12 - ATLAS COPCO

COP1036HB, 1038HB, 1238 (COLLAR)	THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
	R32		575	5432-2376-00	5
	R38		575	5438-2376-00	5.2
	P38		575	5488-2376-00	5.2
	P45		575	5495-2376-00	5.5

### FIGURE 13 - ATLAS COPCO

COP1132	THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
	R28		410	5428-16181-00	2.5
	R32		410	5432-16181-00	2.5
	P35		410	5485-16181-00	2.5
	R32		500	5432-20181-00	3
	P35		500	5485-20181-00	3

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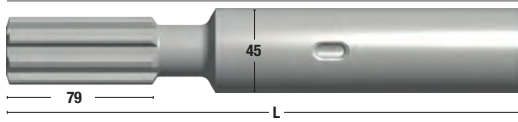
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### FIGURE 14 - ATLAS COPCO

COP1132 (FEM.)



THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
R32F		280	5432-11203-00	2.5

### FIGURE 15 - ATLAS COPCO

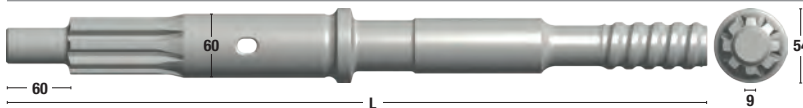
COP1432, COP1532 FEM.



THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
R32F		341	5432-13147-00	4.5
R38F		341	5438-13147-00	4.5
P38F		341	5488-13147-00	4.5

### FIGURE 16 - ATLAS COPCO

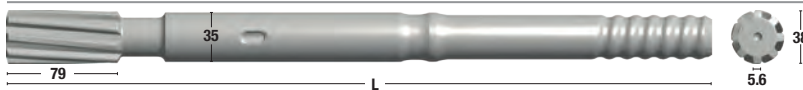
COP1338 EXTRACTOR



THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
R32		780	5432-31121-00	10.5
P38		780	5488-31121-00	11
P45		780	5495-31121-00	11.5

### FIGURE 17 - ATLAS COPCO

COP1435



THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
R32		410	5432-16235-00	2.6
P35		410	5485-16235-00	2.6
R32		500	5432-20235-00	3
P35		500	5485-20235-00	3.1

### FIGURE 18 - ATLAS COPCO

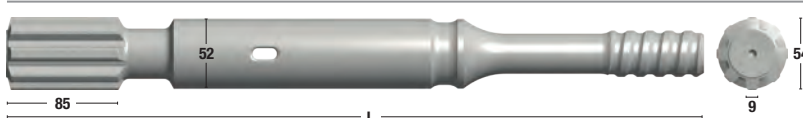
COP1440, COP1550, COP1638, COP1838, COP2238



THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
R32		435	5432-1762-00	3.6
P35		435	5485-1762-00	3.8
R38		435	5438-1762-00	3.9
P38		435	5488-1762-00	3.9
R32		525	5432-2162-00	4.2
P35		525	5485-2162-00	4.3
R38		525	5438-2162-00	4.5
P38		525	5488-2162-00	4.5

### FIGURE 19 - ATLAS COPCO

COP1440, COP1550, 1838HD (D=52MM)



THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
R32		525	5432-2163-00	5.7
P35		525	5485-2163-00	5.9
P38		525	5488-2163-00	6
P45		525	5495-2163-00	6.2
P51		525	5499-2163-00	6.5

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**FIGURE 20 - ATLAS COPCO**

COP1838MUX	THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
	P38		730	5488-29221-00	9.5
	P45		730	5495-29221-00	10

**FIGURE 21 - ATLAS COPCO**

COP 1838EX	THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
	P38		730	5488-29126-00	9.5
	P45		730	5495-29126-00	10
	P51		730	5499-29126-00	10.5

**FIGURE 22 - ATLAS COPCO**

COP 1850, 1840HE, 2150HE	THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
	P45		565	5495-22127-00	6.8
	P51		565	5499-22127-00	7.2
	P51		770	5499-30127-00	10

**FIGURE 23 - ATLAS COPCO**

COP 2150/2550 (STRAIGHT SPLINE)	THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
	P51		770	5499-30227-00	10

**FIGURE 24 - ATLAS COPCO**

COP 1240/1640/1840/1850/2150/2550HEX	THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
	P38		770	5488-30129-00	10.5
	P45		770	5495-30129-00	10.8
	P51		770	5499-30129-00	11

**FIGURE 25 - ATLAS COPCO**

COP 2160/2560 EXTRACTOR	THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
	P51		770	5499-30204-00	13.2
	CT60		770	5490-30204-00	13.5

## FIGURE 26 - ATLAS COPCO

COP 3038



THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
P38		435	5488-17183-00	4.5
P45		435	5495-17183-00	4.8
P38		525	5488-21183-00	5.2

## FIGURE 27 - ATLAS COPCO

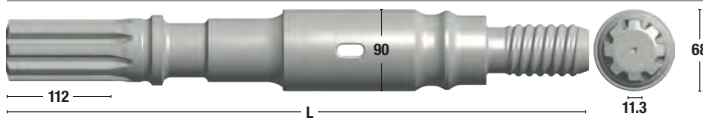
COP 3038HE (HELICAL)



THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
P38		435	5488-17224-00	4.5
P45		435	5495-17224-00	4.8
P38		525	5488-21224-00	5.2

## FIGURE 28 - ATLAS COPCO

COP4050 MUX



THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
P58		835	5458-33199-00	27
P68		835	5468-33199-00	27.5

## FIGURE 29 - BOART

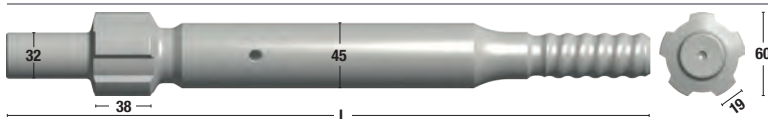
HD65 (FEMALE)



THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
R32F		324	5432-13226-00	3.5

## FIGURE 30 - BOART

HD65



THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
R32		445	5432-1868-00	4.5

## FIGURE 31 - BOART

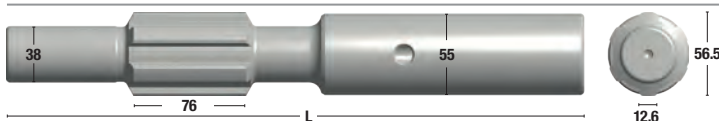
HD125, HD150



THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
R32		495	5432-2048-00	4.8
R38		495	5438-2048-00	5
P38		495	5488-2048-00	5

## FIGURE 32 - CANNON

CH38 (JOYJH-2) (55MM BODY, FEM.)



THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
P38F		390	5488-15200-00	5

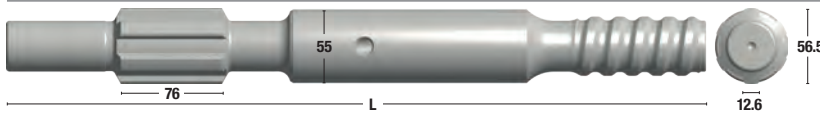
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## FIGURE 33 - CANNON

CH38 (JOYJH-2) (55MM BODY)	THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
	P45		525	5495-21201-00	6

## FIGURE 34 - CANNON

CH38 (JOYJH-2) (38MM BODY)	THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
	P38		444	5488-17195-00	4

## FIGURE 35 - JOY

JOY VCR260 /360	THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
	P38		432	5488-1747-16	4

## FIGURE 36 - DOOFOR

DF425/430S	THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
	R25		400	5425-16210-00	3
	R28		400	5428-16210-00	3

## FIGURE 37 - DOOFOR

DF528	THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
	R32		424	5432-17234-00	3.5

## FIGURE 38 - DOOFOR

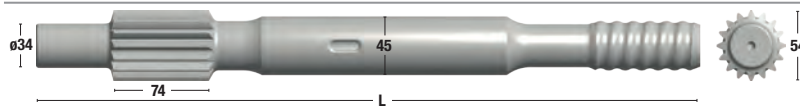
DF528HD	THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
	R32		470	5432-19135-00	3.6
	R38		470	5438-19135-00	3.8
	P38		470	5488-19135-00	3.8

## FIGURE 39 - DOOFOR

DF545	THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
	R32		515	5432-20233-00	4
	R38		515	5438-20233-00	4.1
	P38		515	5488-20233-00	4.1

## FIGURE 40 - DOOFOR

DF545HD



THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
R32		515	5432-20236-00	5.1
R38		515	5438-20236-00	5.3
P38		515	5488-20236-00	5.3
P45		515	5495-20236-00	5.6

## FIGURE 41 - DOOFOR

DF545EXT



THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
R32		582	5432-23237-00	4.8
R38		582	5438-23237-00	5
P38		582	5488-23237-00	5

## FIGURE 42 - DOOFOR

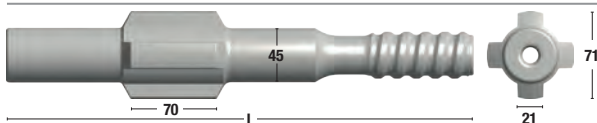
DF545EXT HD



THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
R32		582	5432-23239-00	5.5
R38		582	5438-23239-00	5.7
P38		582	5488-23239-00	5.7
P45		582	5495-23239-00	5.9

## FIGURE 43 - FURUKAWA

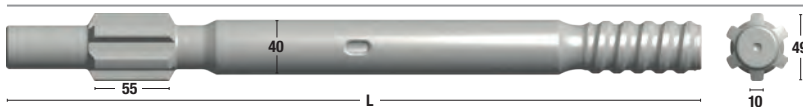
PD200 (H/D CHUCK)



THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
R38	14	381	5438-1514-14	3.7
P38	14	381	5488-1514-14	3.7
P45	14	381	5495-1514-14	3.9

## FIGURE 44 - FURUKAWA

HD90



THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
P38		512	5488-20107-00	4.3

## FIGURE 45 - FURUKAWA

HD150



THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
R38		520	5438-21117-00	4
P38		520	5488-21117-00	4

## FIGURE 46 - FURUKAWA

HD180



THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
P38	14	455	5488-1809-14	3.8

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## FIGURE 47 - FURUKAWA

HD190	THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
	R38		480	5438-19109-00	4.5
	P38		480	5488-19109-00	4.5

## FIGURE 48 - FURUKAWA

HD210	THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
	P38		430	5488-17215-00	3.8

## FIGURE 49 - FURUKAWA

HD260, HD300	THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
	P38	16	655	5488-2620-16	6
	P45	16	655	5495-2620-16	6.5

## FIGURE 50 - FURUKAWA

HD500 (6 SPLINE)	THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
	P38	16	625	5488-25148-16	8.3
	P45	16	625	5495-25148-16	8.5

## FIGURE 51 - FURUKAWA

HD609	THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
	P38		615	5488-2490-00	6.3
	P45		615	5495-2490-00	6.5
	P38		690	5488-2790-00	7
	P45		690	5495-2790-00	7.2

## FIGURE 52 - FURUKAWA

HD609QED	THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
	P38		860	5488-34132-00	9
	P45		860	5495-34132-00	9.2

## FIGURE 53 - FURUKAWA

HD612	THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
	P45		710	5495-28112-00	8.3
	P51		710	5499-28112-00	8.5

## FIGURE 54 - FURUKAWA

HD612QED



THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
P45		900	5495-36134-00	11.2
P51		900	5499-36134-00	11.4

## FIGURE 55 - FURUKAWA

HD615



THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
P51		880	5499-35136-00	15

## FIGURE 56 - FURUKAWA

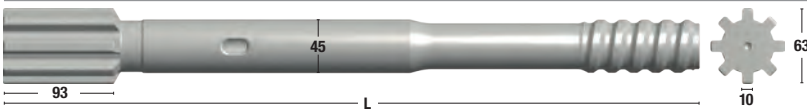
HD615QED



THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
P51		880	5499-35139-00	15.4

## FIGURE 57 - FURUKAWA

HD709



THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
P45		620	5495-24177-00	6.2

## FIGURE 58 - FURUKAWA

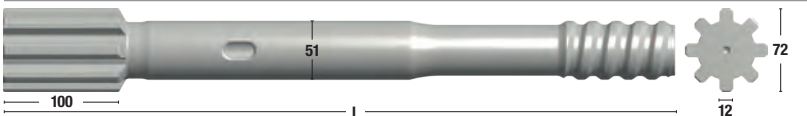
HD709QED



THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
P45		800	5495-31180-00	9.5

## FIGURE 59 - FURUKAWA

HD712



THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
P45		590	5495-23161-00	7
P51		590	5499-23161-00	7.3
P45		790	5499-31161-00	9.9
P51		790	5499-31161-00	10.2

## FIGURE 60 - FURUKAWA

HD712QED



THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
P45		880	5495-35164-00	12.7
P51		880	5499-35164-00	13.4

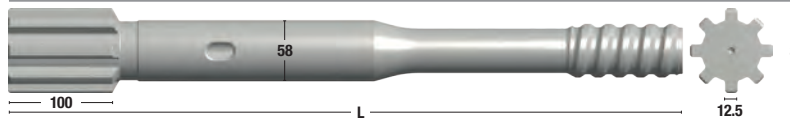
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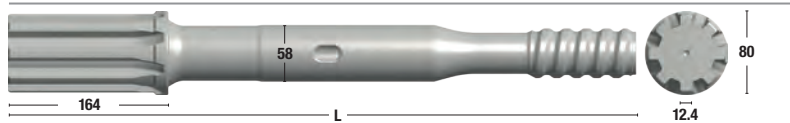
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## FIGURE 61 - FURUKAWA

HD715	THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
	P51		790	5499-31167-00	12.7

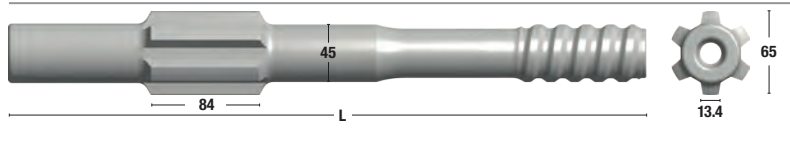
## FIGURE 62 - FURUKAWA

HD715QED	THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
	P51		885	5499-35175-00	16

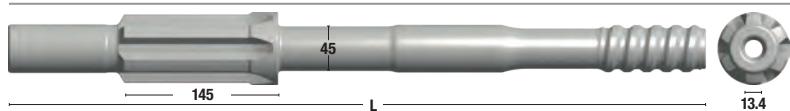
## FIGURE 63 - INGERSOLL RAND

YD90M	THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
	R32	10	330	5432-1333-10	?

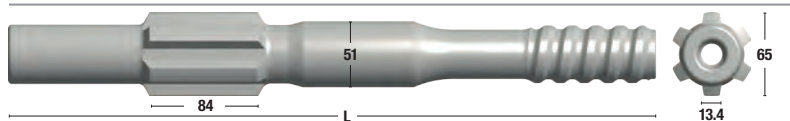
## FIGURE 64 - INGERSOLL RAND

YH65, 70, 75, 80	THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
	P38	19	496	5488-2083-19	4.7
	P45	19	496	5495-2083-19	4.9
	P38	19	700	5495-2483-19	5.5
	P45	19	700	5495-2483-19	5.7

## FIGURE 65 - INGERSOLL RAND

YH65RP, 80RP	THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
	P38	19	700	5488-2892-19	8
	P45	19	700	5495-2892-19	8.5

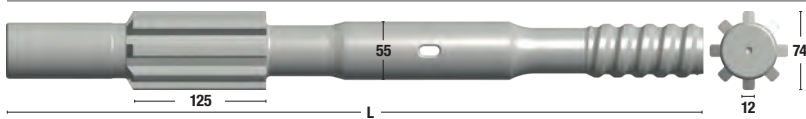
## FIGURE 66 - INGERSOLL RAND

YH80A	THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
	P45	19	500	5495-20114-19	6.4

## FIGURE 67 - INGERSOLL RAND

YH 95,100	THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
	P45	22	622	5495-2584-22	8.8
	P51	22	622	5499-2584-22	9

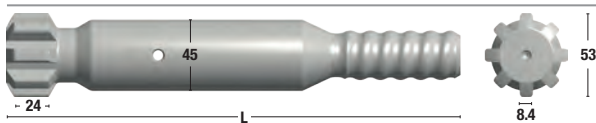
## FIGURE 68 - INGERSOLL RAND

YH110VRP	THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
	P45		900	5495-35104-00	11.8
	P51		900	5499-35104-00	12

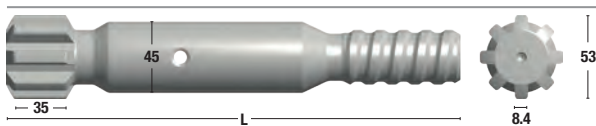
## FIGURE 69 - MONTABERT

HC20 (D=45MM) FEM.	THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
	R32F		187	5432-07202-00	2.4

## FIGURE 70 - MONTABERT

HC20 (D=45MM)	THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
	R32		287	5432-11194-00	2.2


## FIGURE 71 - MONTABERT

HC25 (D=45MM)	THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
	R32		287	5432-11207-00	2.3
	P35		287	5485-11207-00	2.4
	R38		287	5438-11207-00	2.5
	P38		287	5488-11207-00	2.5

## FIGURE 72 - MONTABERT

HC25 (D=45MM) FEM.	THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
	R32		202	5432-08208-00	2.6

## FIGURE 73 - MONTABERT

HC40/HC50 (D=38MM)	THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
	R32		381	5432-1564-00	3
	P35		381	5485-1564-00	3.2
	R38		381	5438-1564-00	3.3
	P38		381	5488-1564-00	3.3
	R32		438	5432-1764-00	3.5
	P35		438	5485-1764-00	3.6
	R38		438	5438-1764-00	3.7
	P38		438	5488-1764-00	3.7

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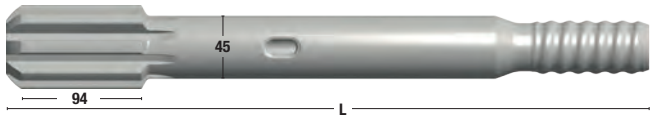
## FIGURE 74 - MONTABERT

HC40 FEMALE (D=45MM)	THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
	R32		270	5432-1099-00	2.6

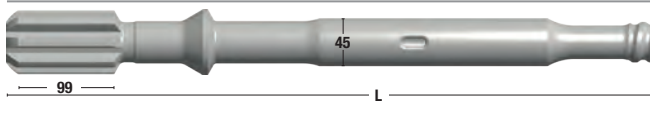
## FIGURE 75 - MONTABERT

HC80, HC90, HC105 (D=38MM)	THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
	R38		440	5438-1756-00	4
	P38		440	5488-1756-00	4
	R38		508	5438-2056-00	4.3
	P38		508	5488-2056-00	4.3

## FIGURE 76 - MONTABERT

HC80, HC110, HC120 (D=45MM)	THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
	R38		415	5438-1657-00	4.5
	P38		415	5488-1657-00	4.5
	P45		425	5495-1757-00	5.5
	R38		460	5438-1857-00	5.8
	P38		460	5488-1857-00	5.8
	R38		490	5438-1957-00	6
	P38		490	5488-1957-00	6
	P45		490	5495-1957-00	6.2
	R38		530	5438-2157-00	6.5
	P38		530	5488-2157-00	6.5
	P45		530	5495-2157-00	6.7

## FIGURE 77 - MONTABERT

HC80R, HC105R, HC107R, HC108R, HC109R, HC110R, HC120R (D=45MM)	THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
	P35		670	5485-2795-00	7.3
	P38		670	5488-2795-00	7.4
	P45		670	5495-2795-00	8.2
	P45		770	5495-3095-00	9.2

## FIGURE 78 - MONTABERT

HC120R, HC150R, HC155R, HC158R (D=51MM)	THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
	P45		670	5495-27131-00	9.7
	P51		670	5499-27131-00	9.9
	P45		770	5495-30131-00	11
	P51		770	5499-30131-00	11.1



## FIGURE 79 - MONTABERT

HC160, 170



THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
P45		807	5495-32152-00	15
P51		807	5499-32152-00	15.1
CT60		807	5490-32152-00	15.3

## FIGURE 80 - MONTABERT

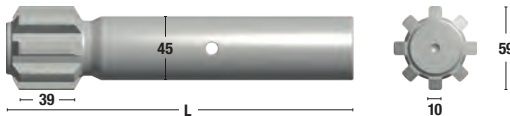
HC200A



THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
P51		840	5499-33133-00	16.4
P60		840	5460-33133-00	16.6
CT60		840	5490-33133-00	16.6

## FIGURE 81 - TAMROCK / SANDVIK

HL300S FEM.



THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
R32		245	5432-1096-00	2.6

## FIGURE 82 - TAMROCK / SANDVIK

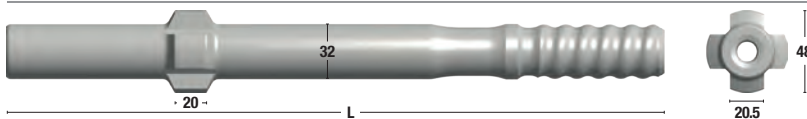
HL300



THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
R32		400	5432-1612-00	2.6
R32		500	5432-2012-00	3.1

## FIGURE 83 - TAMROCK / SANDVIK

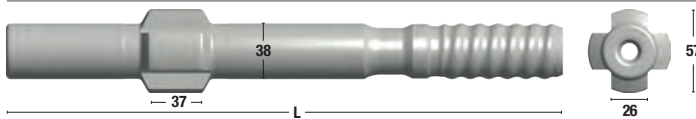
L400, L410, L500, L510



THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
R32	10	381	5432-1519-10	2

## FIGURE 84 - TAMROCK / SANDVIK

HLR438, L550



THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
R38	12	381	5438-1535-12	4
P38	12	381	5488-1535-12	4

## FIGURE 85 - TAMROCK / SANDVIK

HL438TS, HL538



THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
R38		450	5438-1835-00	4.4
P38		450	5488-1835-00	4.4
R32		495	5432-2035-00	4.7
R38		495	5438-2035-00	4.8
P38		495	5488-2035-00	4.8

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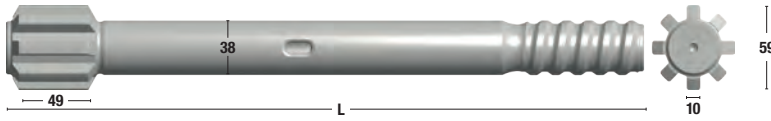
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## FIGURE 86 - TAMROCK / SANDVIK

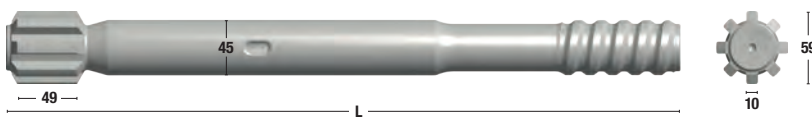
HL500 S, HL510 S (D=38MM)



THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
R32		450	5432-1881-00	3.8
R38		450	5438-1881-00	3.9
P38		450	5488-1881-00	3.9
P38		500	5488-2081-00	4.2
P38		550	5488-2281-00	4.5

## FIGURE 87 - TAMROCK / SANDVIK

HL500, HL510 (D=45MM)



THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
R32		550	5432-22128-00	5.1
P35		550	5485-22128-00	5.3
P38		550	5488-22128-00	5.3
P45		550	5495-22128-00	5.5

## FIGURE 88 - TAMROCK / SANDVIK

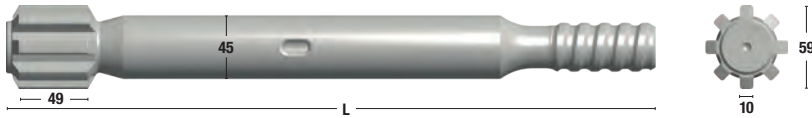
HL500 (FEM.)



THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
R32		350	5432-1481-00	3.9

## FIGURE 89 - TAMROCK / SANDVIK

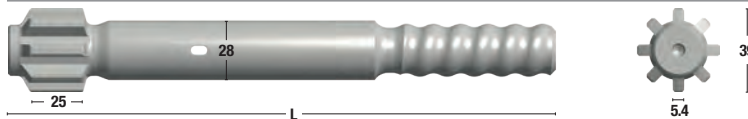
HL550 SUPER, 560 SUPER



THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
P35		460	5485-1882-00	4.9
R38		460	5438-1882-00	5
P38		460	5488-1882-00	5
P35		500	5485-2082-00	5.2
R38		500	5438-2082-00	5.3
P38		500	5488-2082-00	5.3
P45		500	5495-2082-00	5.5

## FIGURE 90 - TAMROCK / SANDVIK

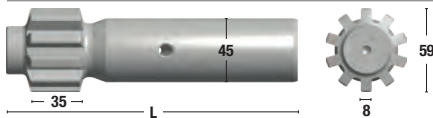
HLX1



THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
R25		255	5425-10231-00	1.1
R28		255	5428-10231-00	1.1

## FIGURE 91 - TAMROCK / SANDVIK

RD314 (FEM.)



THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
R32		205	5432-08223-00	2.1

**FIGURE 92 - TAMROCK / SANDVIK**

RD520/RD525	THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
	P38		525	5488-21228-00	5.6
	P35		600	5485-24228-00	6.6
	P38		600	5488-24228-00	6.7
	P35		745	5485-29228-00	7.4
	P38		745	5488-29228-00	7.5

**FIGURE 93 - TAMROCK / SANDVIK**

HLX5/HFX5T	THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
	R32		500	5432-20150-00	5
	P35		500	5485-20150-00	5.1
	R38		500	5438-20150-00	5.2
	P38		500	5488-20150-00	5.2
	P45		500	5495-20150-00	5.5
	R32		575	5432-23150-00	5.5
	P35		575	5485-23150-00	5.6
	P38		575	5488-23150-00	5.7
	P45		575	5495-23150-00	5.9
	P35		720	5485-28150-00	6.6
	P38		720	5488-28150-00	6.7

**FIGURE 94 - TAMROCK / SANDVIK**

HL600 (D=45MM)	THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
	P38		525	5488-2167-00	6
	P45		525	5495-2167-00	6.4
	P38		600	5488-2467-00	6.5
	P45		600	5495-2467-00	6.9

**FIGURE 95 - TAMROCK / SANDVIK**

HL600 (D=52MM)	THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
	P45		650	5495-2697-00	8.3
	P51		650	5499-2697-00	8.6

**FIGURE 96 - TAMROCK / SANDVIK**

HL700/HL710/HL800T/HF810T/HL650 (D=45MM)	THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
	P38		600	5488-24120-00	7
	P45		600	5495-24120-00	7.2
	P51		600	5499-24120-00	7.5

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## FIGURE 97 - TAMROCK / SANDVIK

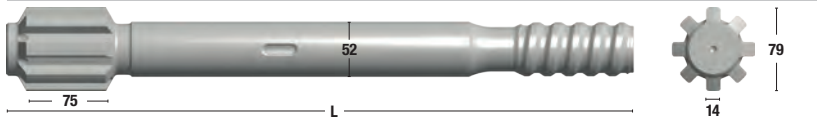
HL700, HL710, HL800, HF810, HL650, HL810 (D=52MM)



THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
P38		600	5488-24125-00	8
P45		600	5495-24125-00	8.2
P51		600	5499-24125-00	8.5

## FIGURE 98 - TAMROCK / SANDVIK

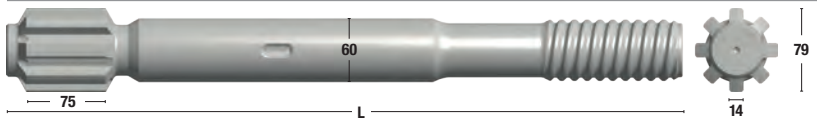
HL1000, HL1010, HL1010S (D=52MM)



THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
P45		590	5495-2360-00	9.3
P51		590	5499-2360-00	9.5
P45		670	5495-2660-00	10
P51		670	5499-2660-00	10.2

## FIGURE 99 - TAMROCK / SANDVIK

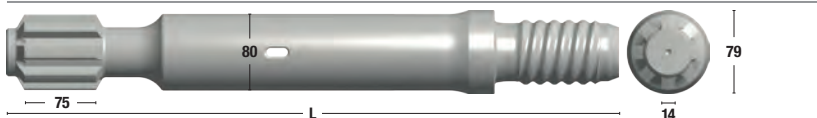
HL1000, HL1010 (D=60MM)



THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
P51		670	5499-26162-00	12.7
P60		670	5460-26162-00	12.7
CT60		670	5490-26162-00	13

## FIGURE 101 - TAMROCK / SANDVIK

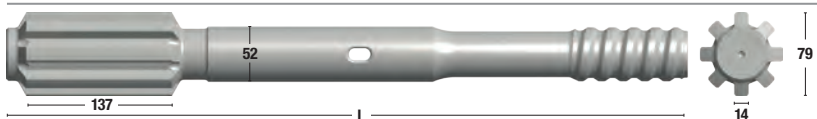
HL1000 (80MM), HL1010 (SHOULDER DRIVE)



THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
P58		635	5458-25110-00	18.4
P68		635	5468-25110-00	18.4

## FIGURE 102 - TAMROCK / SANDVIK

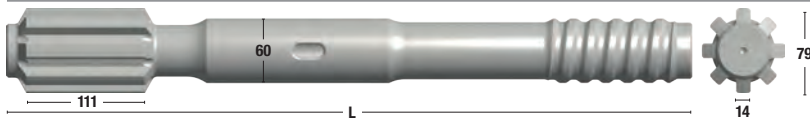
HL1000 EXTRACTOR (D=52MM)



THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
P51		840	5499-33101-00	16

## FIGURE 104 - TAMROCK / SANDVIK

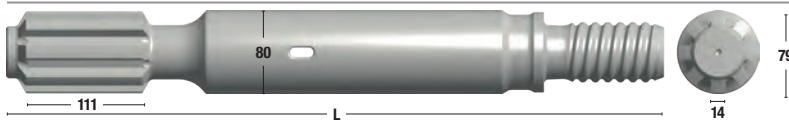
HL1500 (D=60MM)



THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
P51		760	5499-30140-00	16
P60		760	5460-30140-00	16.4
CT60		760	5490-30140-00	16.4

## FIGURE 105 - TAMROCK / SANDVIK

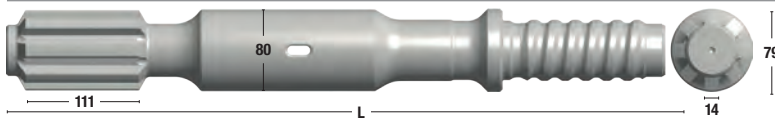
HL1500 (D=80MM) (SHOULDER DRIVE)



THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
P58		635	5458-25158-00	17.6
P68		635	5468-25158-00	18.2

## FIGURE 106 - TAMROCK / SANDVIK

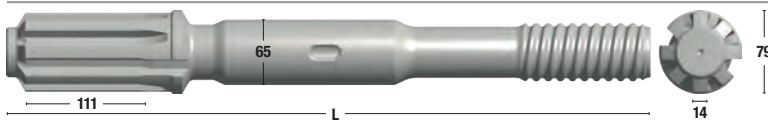
HL1500 (D=80MM) (SHOULDER DRIVE W/COLLAR)



THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
CT60		760	5490-30158-00	19.5

## FIGURE 107 - TAMROCK / SANDVIK

HL1500PE, 1000PE, 1560T (D=65MM)



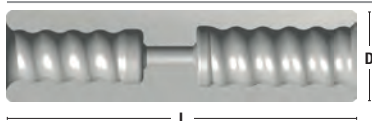
THREAD FORM	TUBE SIZE (mm)	LENGTH (mm)	CAT. NUMBER	WEIGHT (Kg)
P51		760	5499-30166-00	18.2
P60		760	5460-30166-00	18.6
CT60		760	5490-30166-00	18.6

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# ANCILLARY EQUIPMENT

## CONVERSION COUPLINGS



DIA (D) MM	LENGTH (L) MM	THREAD	CAT. NUMBER
43mm (1 1/8")	159mm (6 1/4")	R25/R28	5525-2800
45mm (1 3/4")	159mm (6 1/4")	R25/R32	5525-3200
55mm (2 1/8")	159mm (6 1/4")	R32/R38	5532-3800
55mm (2 1/8")	159mm (6 1/4")	R32/P38	5532-8800
55mm (2 1/8")	194mm (7 5/8")	R35/P38	5535-8800
55mm (2 1/8")	194mm (7 5/8")	P38/R38	5588-3800
63.5mm (2 1/2")	199mm (7 7/8")	P38/P45	5588-9500
72mm (2 13/16")	234mm (9 1/8")	P45/P51	5595-9900
80mm (3 1/8")	250mm (9 7/8")	P51/P60	5599-6000

## BIT ADAPTORS



DIA (D) MM	LENGTH (L) MM	THREAD	CAT. NUMBER
45mm (1 3/4")	187mm (7 3/8")	R32 FEMALE / R25 MALE	5500-3225
55mm (2 1/8")	216mm (8 1/2")	R38 FEMALE / P38 MALE	5500-3888
54mm (2 1/8")	203mm (8")	P38 FEMALE / R32 MALE	5500-8832
55mm (2 1/8")	216mm (8 1/2")	R38 FEMALE / R32 MALE	5500-3832
63.5mm (2 1/2")	238mm (9 3/8")	P45 FEMALE / P38 MALE	5500-9588
64mm (2 1/2")	280mm (11")	P51 FEMALE / P45 MALE	5500-9995
80mm (3 1/8")	330mm (13")	P60 FEMALE / P51 MALE	5500-6099
39mm (1 1/2")	187mm (7 3/8")	R25 FEMALE / R32 MALE	5500-2532
45mm (1 3/4")	187mm (7 3/8")	R28 FEMALE / R32 MALE	5500-2832
45mm (1 3/4")	216mm (8 1/2")	R32 FEMALE / R38 MALE	5500-3238
45mm (1 3/4")	216mm (8 1/2")	R32 FEMALE / P38 MALE	5500-3288
55mm (2 1/8")	216mm (8 1/2")	P38 FEMALE / R38 MALE	5500-8838
55mm (2 1/8")	280mm (11")	P38 FEMALE / P45 MALE	5500-8895
64mm (2 1/2")	280mm (11")	P45 FEMALE / P51 MALE	5500-9599
76mm (3")	280mm (11")	P51 FEMALE / GT60 MALE	5500-9990
82mm (3 1/4")	330mm (13")	P60 FEMALE / GT60 MALE	5500-6090
82mm (3 1/4")	330mm (13")	GT60 FEMALE / P60 MALE	5500-9060
82mm (3 1/4")	280mm (11")	GT60 FEMALE / P51 MALE	5500-9099
87mm (3 3/8")	330mm (13")	P68 FEMALE / P58 MALE	5500-6858

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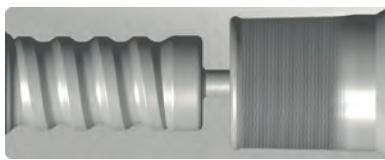
# ANCILLARY EQUIPMENT

## GUIDE ADAPTORS



THREAD	CAT. NUMBER
P38F / P38M	5505-8888
P45F / P45M	5505-9595
P51F / P51M	5505-9999

## FISHING TOOLS - COUPLING RECOVERY



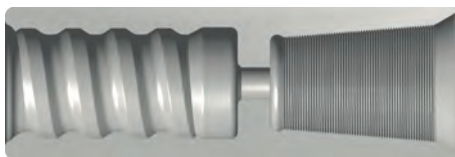
THREAD	CAT. NUMBER
R25	5910-2501
R32	5910-3201
R38	5910-3801
P38	5910-8801
P45	5910-9501
P51	5910-9901
P60	5910-6001

## FISHING PIKES



THREAD	CAT. NUMBER
P58	5910-5804
P68	5910-6804

## ROD RECOVERY



THREAD	CAT. NUMBER
R25	5910-2502
R32	5910-3202
R38	5910-3802
P38	5910-8802
P45	5910-9502
P51	5910-9902

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## GAUGES

BIT GRINDING GAUGE



BUTTON BIT GRINDING GAUGE



DESCRIPTION	CAT. NUMBER
CROSS, x BITS & STEMS	5940-1100
BUTTON BIT	5940-0900

## ROD SPANNER



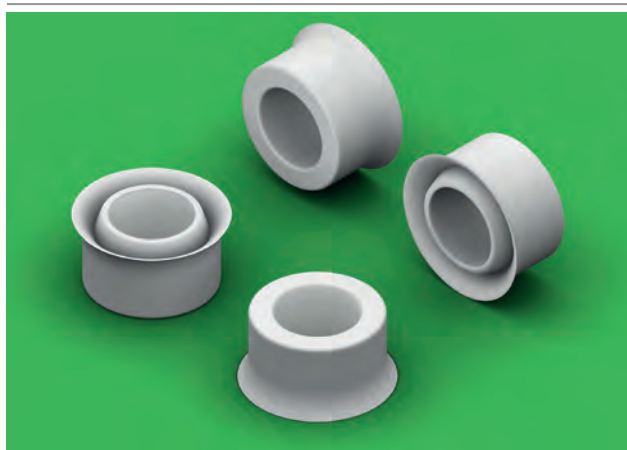
DESCRIPTION	CAT. NUMBER
25mm (1") ACROSS FLATS HEX	5930-0250
32mm (1¼") HEX & 38mm (1½") RND	5930-0320
38mm (1½") ACROSS FLATS HEX	5930-0380

## THREAD LUBRICANT

This is a high temperature grease which is recommended for all P&V threaded extensions rods, when drilling with air flushing. The grease prevents scuffing of the threads, which can occur if heat builds up in the junction between coupling and rod. Uncoupling of the drill string is simpler with this grease and the life of the equipment is extended. The recommended method of applying this is with a brush, sparingly to the rod thread as each rod is added to the drill string. Care should be taken to store this grease away from the drilling dust.

DESCRIPTION	CAT. NUMBER
1Kg	59KK-0001
5Kg	59KK-0005

## SEALS



DESCRIPTION	CAT. NUMBER
5mm (¼")	5970-0500
8mm (⅝")	5970-0800
10mm (⅜")	5970-1000
11mm (⅞")	5970-1100
12mm (½")	5970-1200
14mm (⅝")	5970-1400
16mm (⅝")	5970-1600
19mm (¾")	5970-1900
22mm (⅞")	5970-2200
25mm (1")	5970-2500
32mm (1¼")	5970-3200

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5324-2432	7.9	4
5324-3231	10.5	4
5324-4030	13.1	4
5324-4829	15.7	4
5324-5628	18.3	4
5324-0840	3.1	4
5324-1639	5.4	4
5324-2438	8	4
5324-3237	10.6	4
5324-4036	13.2	4
5324-4835	15.8	4
5324-5634	18.4	4
5324-0434	1.7	4
5324-0833	3	4
5324-1232	4.2	4
5324-1631	5.3	4
5324-2030	6.5	4
5324-0635	2.4	4
5324-1234	4.2	4
5324-1833	6.1	4
5324-2432	7.9	4
5324-0641	2.4	4
5324-1240	4.2	4
5324-1839	6.1	4
5324-2438	7.9	4
5325-1427	5	5
5325-1927	6.5	5
5325-2427	8.1	5
5325-2828	9.1	5
5325-3028	9.9	5
5325-1632	5.4	5
5354-0826	3.3	5
5354-1226	4.4	5
5354-2026	6.7	5
5354-2426	7.9	5
4700-1364	0.9	5
4700-1376	1.2	5
4700-1389	1.7	5
4202-0332	0.3	6
4202-0335	0.3	6
4202-0338	0.4	6
4202-0341	0.4	6
4702-2032	0.3	6
4702-2035	0.3	6
4702-2038	0.4	6
4702-2041	0.4	6
4702-2043	0.5	6
4702-2045	0.6	6
5034-0206	2.1	6
5034-0209	3	6
5034-0212	4	6
5034-0218	5.8	6
5034-0221	6.8	6
5034-0224	7.6	6
5034-0231	9.6	6
5034-0236	11.6	6

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4203-0332	0.3	7
4203-0335	0.3	7
4203-0338	0.4	7
4203-0341	0.4	7
4203-0345	0.5	7
4203-0348	0.6	7
4203-0351	0.6	7
4703-2032	0.3	7
4703-2035	0.3	7
4703-2038	0.4	7
4703-2041	0.4	7
5034-0306	2.1	7
5034-0309	3	7
5034-0312	4	7
5034-0318	5.8	7
5034-0321	6.8	7
5034-0324	7.6	7
5034-0331	9.6	7
5034-0332	10.2	7
5034-0336	11.6	7
5034-0340	12.8	7
5034-0348	14.6	7
4625-0835	0.4	8
4625-0838	0.45	8
4625-0841	0.5	8
4625-0845	0.7	8
4628-0838	0.45	8
4628-0841	0.5	8
4628-0845	0.7	8
4628-0848	0.9	8
4725-1038	0.5	8
4725-1041	0.6	8
4725-1043	0.7	8
4725-1045	0.8	8
4725-1048	0.9	8
4725-1051	1.1	8
4725-2033	0.35	8
4725-2035	0.4	8
4725-2038	0.5	8
4725-2041	0.6	8
4725-2043	0.7	8
4725-2045	0.8	8
4725-2048	0.9	8
4725-2051	1.1	8
4728-2038	0.5	8
4728-2041	0.6	8
4728-2043	0.7	8
4728-2045	0.8	8
4725-3045	0.8	8
4725-3048	0.9	8
4725-3051	1.1	8
5525-0001	0.7	8
5425-2203-06	2.3	9
5425-2203-09	3.3	9
5425-2203-12	4.1	9
5425-2203-15	5	9
5425-2203-18	5.9	9

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5425-2203-31	9.5	9
5425-2203-37	11.3	9
5425-2203-40	12.2	9
5425-2503-24DD	10.5	9
5425-2503-31DD	13	9
5425-2203-32DD	14	9
5425-2503-37DD	15.5	9
5425-2503-38DD	15.7	9
4725-1038DD	0.5	9
4725-1041DD	0.6	9
4725-1043DD	0.7	9
4725-1045DD	0.8	9
4725-1048DD	0.9	9
4725-1051DD	1.1	9
5425-2503-06	2.9	9
5425-2503-08	3.6	9
5425-2503-12	5.3	9
5425-2503-18	7.4	9
5425-2503-24	10.5	9
5425-2503-31	13	9
5425-2203-32	13.5	9
5425-2503-37	15.5	9
5425-2503-40	16.8	9
5532-0001	1	10
5538-0001	1.5	10
5732-2525-25	10.2	10
5732-2525-31	12.2	10
5732-2525-37	14.6	10
5732-2525-43	17	10
5732-2828-25	12.7	10
5732-2828-26	13.6	10
5732-2828-28	14.5	10
5732-2828-31	15.5	10
5732-2828-37	18.6	10
5732-2828-43	21.4	10
4732-1045	0.7	11
4732-1048	0.8	11
4732-1051	0.9	11
4732-2041	0.6	11
4732-2043	0.65	11
4732-2045	0.7	11
4732-2048	0.8	11
4732-2051	1	11
4735-2048	0.8	11
4735-2051	1	11
4732-2054	1.2	11
4732-2057	1.4	11
4732-2064	1.6	11
4732-2076	2.2	11
4735-2054	1.2	11
4735-2057	1.4	11
4735-2064	1.6	11
4735-2076	2.2	11
4732-3043	0.65	11
4732-3045	0.7	11
4732-3048	0.8	11
4732-3051	1	11

CATALOGUE NUMBER	WEIGHT KG	PAGE NO.
4732-3054	1.2	11
4732-3057	1.4	11
4732-3064	1.6	11
4735-3048	0.8	11
4735-3051	1	11
4735-3054	1.2	11
4735-3057	1.4	11
4735-3064	1.6	11
4732-3251	1.3	12
4732-3254	1.5	12
4732-3257	1.7	12
4732-3264	2	12
4735-3251	1.3	12
4735-3254	1.5	12
4735-3257	1.7	12
4735-3264	2	12
4732-4064	1.6	12
4735-4064	1.6	12
5538-0001	1.5	12
5588-0001	1.5	12
5738-3232-31	19.8	13
5738-3232-37	23.2	13
5738-3232-43	26.8	13
5738-3232-49	31.2	13
5788-3232-31	19.8	13
5788-3232-37	23.2	13
5788-3232-43	26.8	13
5788-3232-49	31.2	13
5738-3532-31	23.1	13
5738-3532-37	29.1	13
5738-3532-43	33	13
5738-3532-49	38	13
5738-3532-55	42.5	13
5788-3532-31	23.1	13
5788-3532-37	29.1	13
5788-3532-43	33	13
5788-3532-49	38	13
5788-3532-55	42.5	13
5788-3532-61	47	13
5788-3532-64	49.3	13
5788-3532-31MF	23.1	14
5788-3532-37MF	29.3	14
5788-3532-43MF	33	14
5788-3532-49MF	38	14
5788-3532-55MF	42.5	14
5788-3532-64MF	49.3	14
5688-3932-37	29	14
5688-3932-43	34	14
5688-3932-49	39	14
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5888-3932-43MF	34	14
5888-3932-49MF	39	14
5888-3932-55MF	44	14
5888-3932-61MF	49	14

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5538-0001	1.5	14
5588-0001	1.5	14
5738-3535-43	33	15
5738-3535-49	38	15
5738-3535-55	42.5	15
5738-3535-61	47	15
5788-3535-37	27.5	15
5788-3535-43	32.5	15
5788-3535-49	37.5	15
5788-3535-55	42.5	15
5788-3535-61	47.4	15
5788-3535-64	49.8	15
5788-3535-43MF	32.5	15
5788-3535-49MF	37.5	15
5788-3535-55MF	42.5	15
5788-3535-61MF	47.4	15
5788-3535-64MF	49.8	15
5688-3935-43	34	15
5688-3935-49	39	15
5688-3935-55	44	15
5688-3935-61	49	15
5888-3935-37MF	29	15
5888-3935-43MF	34	15
5888-3935-49MF	39	15
5888-3935-55MF	44	15
5888-3935-61MF	49	15
4250-2526	1.9	16
4250-2826	1.9	16
4250-3226	1.9	16
4700-1364	0.9	16
4700-1376	1.2	16
4700-1389	1.7	16
4250-3240	2.4	16
4250-3540	2.4	16
4250-3232M	2.4	16
4250-3535M	2.4	16
4700-1689	1.7	16
4700-1602	2.6	16
4700-1627	4	16
4732-5276-38	2.3	X
4732-5289-38	2.9	17
4732-5202-38	3.7	17
4735-5276-38	2.3	X
4735-5289-38	2.9	17
4735-5202-38	3.7	17
4735-5215-38	4.3	17
4735-5227-38	5.3	17
4732-5076	2.3	17
4732-5089	2.9	17
4732-5002	3.7	17
4735-5076	2.3	17
4735-5089	2.9	17
4735-5002	3.7	17
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4725-1038	0.5	18
4725-1041	0.6	18
4725-1043	0.7	18
4725-1045	0.8	18
4725-1048	0.9	18
4725-1051	1.1	18
4725-2038	0.5	18
4725-2041	0.6	18
4725-2043	0.7	18
4725-2045	0.8	18
4725-2048	0.9	18
4725-2051	1.1	18
4725-3045	0.8	18
4725-3048	0.9	18
4725-3051	1.1	18
5525-0001	0.7	19
5725-2506	1.6	19
5725-2509	2.9	19
5725-2512	4.4	19
5725-2515	5.5	19
5725-2518	6.7	19
5725-2524	8.8	19
5725-2531	11	19
5725-2536	13	19
5725-2506MF	1.8	19
5725-2509MF	3.1	19
5725-2512MF	4.6	19
5725-2515MF	5.7	19
5725-2518MF	6.9	19
5725-2524MF	9	19
5725-2531MF	11.2	19
5725-2536MF	13.2	19
4732-1048	0.9	20
4732-1051	1.1	20
4732-2048	0.9	20
4732-2051	1.1	20
4732-2054	1.2	20
4732-2057	1.4	20
4732-2064	1.6	20
4732-2076	2.2	20
4732-3048	0.9	20
4732-3051	1.1	20
4732-3054	1.2	20
4732-3057	1.4	20
4732-3064	1.6	20
4732-3251	1.3	20
4732-3254	1.4	20
4732-3257	1.7	20
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5532-0001	1	21
5632-3212C	6.6	21
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5632-3243SH	24	21
5832-3212MF	7.6	21
5832-3215MF	9.2	21
5832-3218MF	10.9	21
5832-3231MF	17.7	21
5832-3236MF	21.2	21
5832-3243MF	24.7	21
5632-4412	12	21
5632-4418	16	21
5632-4431	24	21
4785-3048	0.9	22
4785-3051	1	22
4785-3054	1.2	22
4785-3057	1.4	22
4785-3064	1.6	22
4785-3076	2.2	22
4785-3254	1.5	22
4785-3257	1.7	22
4785-3264	2.2	22
4785-3276	2.8	22
5885-3812MF	7.4	22
5885-3815MF	9	22
5885-3818MF	10.7	22
5885-3831MF	17.5	22
5885-3836MF	21	22
5885-3843MF	24.5	22
4788-2060	1.3	23
4788-2064	1.5	23
4788-2070	1.8	23
4788-2076	2	23
4788-2089	2.7	23
4788-2002	3.3	23
4788-2264	2	23
4788-2276	2.8	23
4788-2289	3.6	23
4788-3064	1.5	24
4788-3076	2	24
4788-3089	2.7	24
4788-3264	2	24
4788-3276	2.8	24
4788-3289	3.6	24
4788-4064	1.5	24
4788-4076	2	24
4788-4089	2.7	24
4788-4264	2	24
4788-4276	2.8	24
4788-4289	3.6	24
5588-0001	1.5	25
5788-3231	19.3	25
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5688-3815C	13	25
5688-3818C	15.5	25
5688-3831C	26.5	25
5688-3836C	31.5	25
5688-3843C	36	25
5688-3849C	41	25
5688-3831SH	26.5	25
5688-3836SH	31.5	25
5688-3843SH	36	25
5688-3849SH	41	25
5888-3812MF	11.4	25
5888-3815MF	13.8	25
5888-3818MF	16.3	25
5888-3831MF	27	25
5888-3836MF	32	25
5888-3843MF	37	25
5688-5512	16	26
5688-5515	20	26
5688-5518	24	26
5688-5524	32	26
5688-5531	40	26
5688-5536	48	26
5688-6418	28	26
5688-6424	42	26
5688-6436	56	26
5688-5515SD	20	26
5688-5518SD	24	26
4795-2070	2.4	27
4795-2076	2.7	27
4795-2089	4.1	27
4795-2002	5.2	27
4795-2015	6.2	27
4799-2089	4.1	27
4799-2002	5.2	27
4799-2015	6.2	27
4799-2027	7.2	27
4795-2276	3.5	27
4795-2289	4.9	27
4795-2202	6.1	27
4795-2215	9.5	27
4799-2289	4.9	27
4799-2202	6.1	27
4799-2215	9.5	27
4799-2227	10.5	27
4795-3076	2.7	28
4795-3089	4.1	28
4795-3002	5.2	28
4795-3015	6.2	28
4799-3089	4.1	28
4799-3002	5.2	28
4799-3015	6.2	28
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4799-3215	9.5	28
4799-3227	10.5	28
4795-4076	2.7	29
4795-4089	4.1	29
4795-4002	5.2	29
4795-4015	6.2	29
4799-4089	4.1	29
4799-4002	5.2	29
4799-4015	6.2	29
4799-4027	7.2	29
4795-4276	3.5	29
4795-4289	4.9	29
4795-4202	6.1	29
4795-4215	9.5	29
4799-4289	4.9	29
4799-4202	6.1	29
4799-4215	9.5	29
4799-4227	10.5	29
5595-0001	2.5	30
5695-4512C	14	30
5695-4515C	17.3	30
5695-4518C	20.8	30
5695-4531C	33.1	30
5695-4536C	39.7	30
5695-4543C	46.3	30
5695-4561C	66.3	30
5695-4531SH	33.1	30
5695-4536SH	39.7	30
5695-4543SH	46.3	30
5695-4561SH	66.3	30
5895-4512MF	15.7	30
5895-4515MF	19	30
5895-4518MF	22.3	30
5895-4531MF	35.5	30
5895-4536MF	42.3	30
5895-4543MF	47.5	30
5895-4561MF	68.5	30
5695-6412	19.6	31
5695-6415	23.3	31
5695-6418	28	31
5695-6436	56	31
5695-7618	31	31
5695-7636	60	31
5695-6415SD	23.3	31
5695-6418SD	28	31
5599-0001	4	32
5599-0003	4.5	32

CATALOGUE NUMBER	WEIGHT KG	PAGE NO.
5699-5106C	9.3	32
5699-5118C	27.9	32
5699-5131C	46.5	32
5699-5136C	55.8	32
5699-5143C	66	32
5699-5148C	73	32
5699-5161C	93	32
5699-5131SH	46.5	32
5699-5136SH	55.8	32
5699-5143SH	66	32
5699-5161SH	93	32
5699-5173SH	113	32
5899-5109MF	16	32
5899-5118MF	30	32
5899-5131MF	50	32
5899-5136MF	60	32
5899-5143MF	70	32
5899-5148MF	77	32
5899-5161MF	97	32
5699-7609	16	32
5699-7618	31	32
5699-7636	58	32
5699-8718	46	32
5699-8736	89	32
4760-3092	4	33
4760-3002	5	33
4760-3015	6.4	33
4760-3027	7.8	33
4760-3292	4.8	33
4760-3202	6	33
4760-3215	7.7	33
4760-3227	9.2	33
4760-4092	4	34
4760-4002	5	34
4760-4015	6.4	34
4760-4027	7.8	34
4760-4202	6	34
4760-4215	7.7	34
4760-4227	9.2	34
5860-6108MF	14.5	35
5860-6131MF	62	35
5860-6136MF	72	35
5860-6143MF	86	35
5860-6155MF	110	35
5860-6161MF	122	35
5660-8710	25	35
5660-7636	58	35
5660-8743	105	35
4790-3092	4.4	36
4790-3002	6.6	36
4790-3015	8.5	36
4790-3027	12	36

CATALOGUE NUMBER	WEIGHT KG	PAGE NO.
4790-3292	5.2	36
4790-3202	7.6	36
4790-3215	9.5	36
4790-3227	13	36
4790-4092	4.4	37
4790-4002	6.6	37
4790-4015	8.5	37
4790-4027	12	37
4790-4202	7.6	37
4790-4215	9.5	37
4790-4227	13	37
5890-6136MF	72	38
5890-6143MF	86	38
5890-6161MF	122	38
5891-6136MF	73	38
5891-6143MF	87	38
5891-6161MF	123	38
5690-8743R	104	38
5690-7753R	112	38
5690-8743	104	38
4758-3092	4.4	39
4758-3002	6.6	39
4758-3015	8.5	39
4758-3027	12	39
4768-3002	6.6	39
4768-3015	8.5	39
4768-3027	12	39
4758-3292	5.2	39
4758-3202	7.6	39
4758-3215	9.5	39
4758-3227	13	39
4768-3202	7.6	39
4768-3215	9.5	39
4768-3227	13	39
4758-4092	4.4	40
4758-4002	6.6	40
4758-4015	8.5	40
4758-4027	12	40
4768-4002	6.6	40
4768-4015	8.5	40
4768-4027	12	40
4758-4292	5.2	40
4758-4202	7.6	40
4758-4215	9.5	40
4758-4227	13	40
4768-4202	7.6	40
4768-4215	9.5	40
4768-4227	13	40
5658-7615SD	34	41
5658-7618SD	40	41

CATALOGUE NUMBER	WEIGHT KG	PAGE NO.
5668-8712SD	30	41
5668-8715SD	36	41
5668-8718SD	42	41
5668-8712SDV	32	41
5668-8715SDV	38	41
5668-8718SDV	44	41
5525-2800	1.5	62
5525-3200	1.3	62
5532-3800	1.5	62
5532-8800	1.5	62
5535-8800	1.8	62
5588-3800	1.7	62
5588-9500	2.2	62
5595-9900	4	62
5599-6000	6.9	62
5500-3225	1	62
5500-3888	1.5	62
5500-8832	1.5	62
5500-3832	1.5	62
5500-9588	2.5	62
5500-9995	3.8	62
5500-6099	4.6	62
5500-2532	1	62
5500-2832	1.2	62
5500-3238	1.5	62
5500-3288	1.5	62
5500-8838	1.5	62
5500-8895	2.5	62
5500-9599	3	62
5500-9990	4.3	62
5500-6090	4.3	62
5500-9060	5	62
5500-9099	5	62
5500-5868	5	62
5505-8888	1.5	63
5505-9595	3.8	63
5505-9999	5	63
5910-2501	2.5	63
5910-3201	3	63
5910-3801	4	63
5910-8801	4	63
5910-9501	4.5	63
5910-9901	5.5	63
5910-6001	6.5	63
5910-5804	4.5	63
5910-6804	5.5	63
5910-2502	1.5	63
5910-3202	2	63
5910-3802	3	63
5910-8802	3	63
5910-9502	3.5	63
5910-9902	4	63

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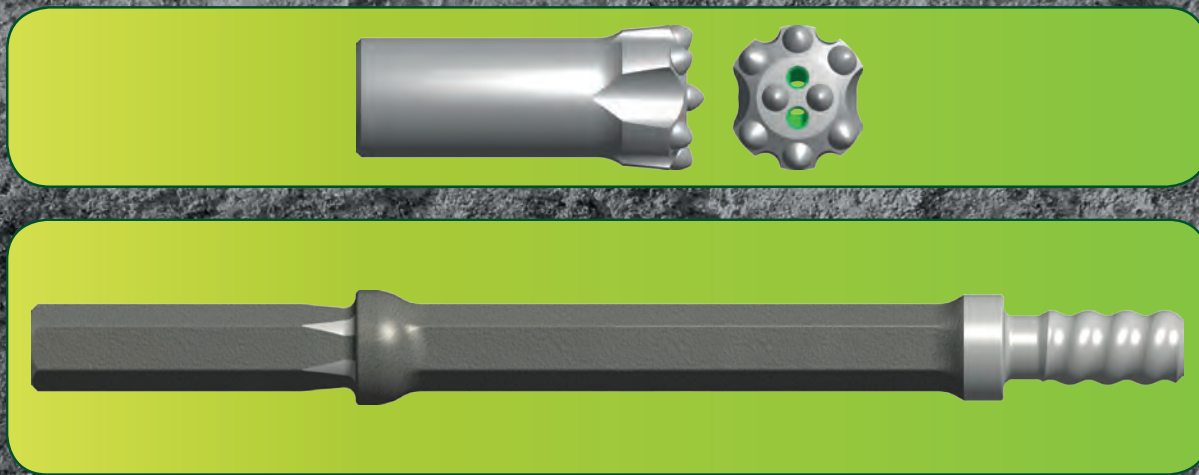
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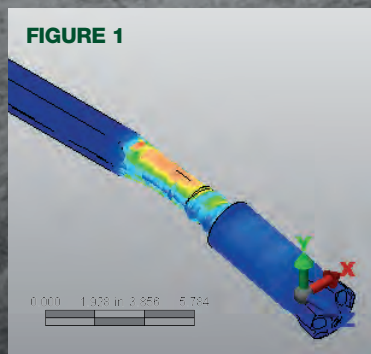




STRENGTHEN DRILL STRING • PROLONG STEEL LIFE • DECREASE DOWNTIME • INCREASE PRODUCTIVITY

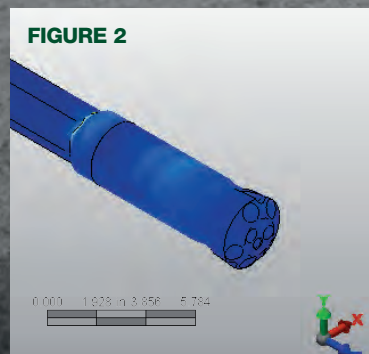
# DUAL DRIVE SHANK RODS

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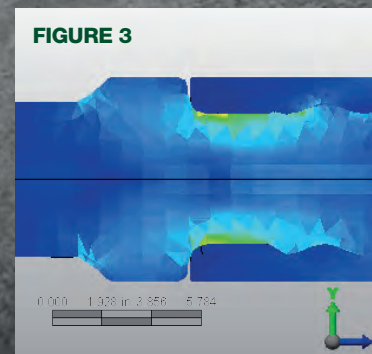
**FIGURE 1**

Standard Rod under extreme stress and the resulting failure region (warm colours) created in the drilling operation.



**FIGURE 2 & 3**

Dual Drive steel reduces stress which promotes better performance and longevity.



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