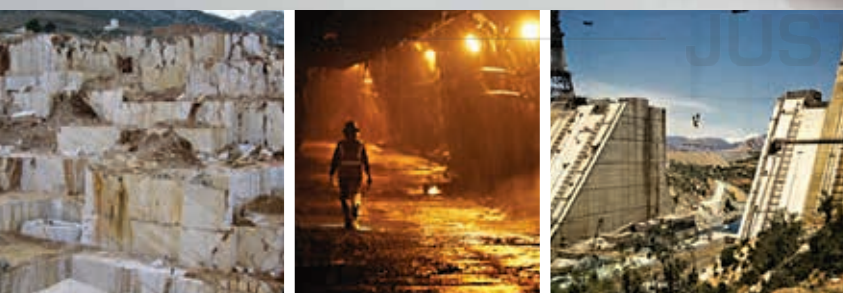




SAI DEEPA
ROCK DRILLING TOOLS
— JUST DRILL! —



**TOP HAMMER
ROCK DRILLING TOOLS**
Product Catalogue

www.saideepa.com



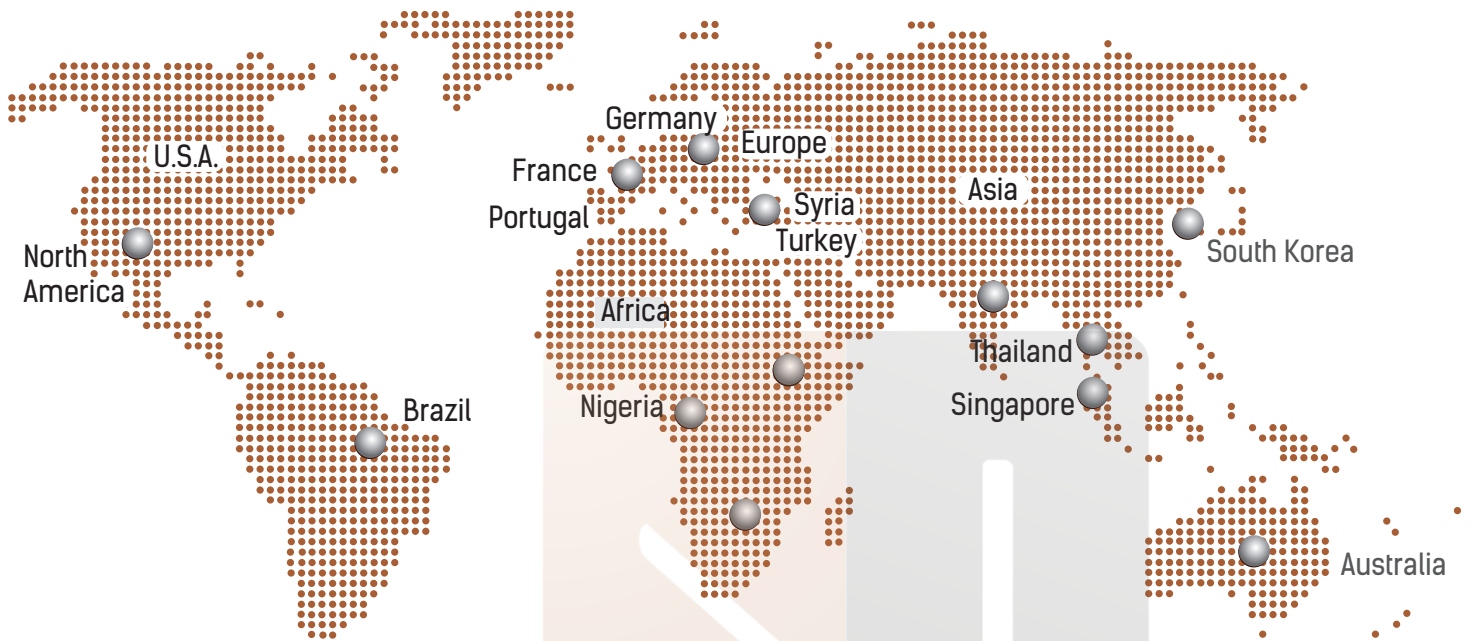
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ROCK DRILLING TOOLS

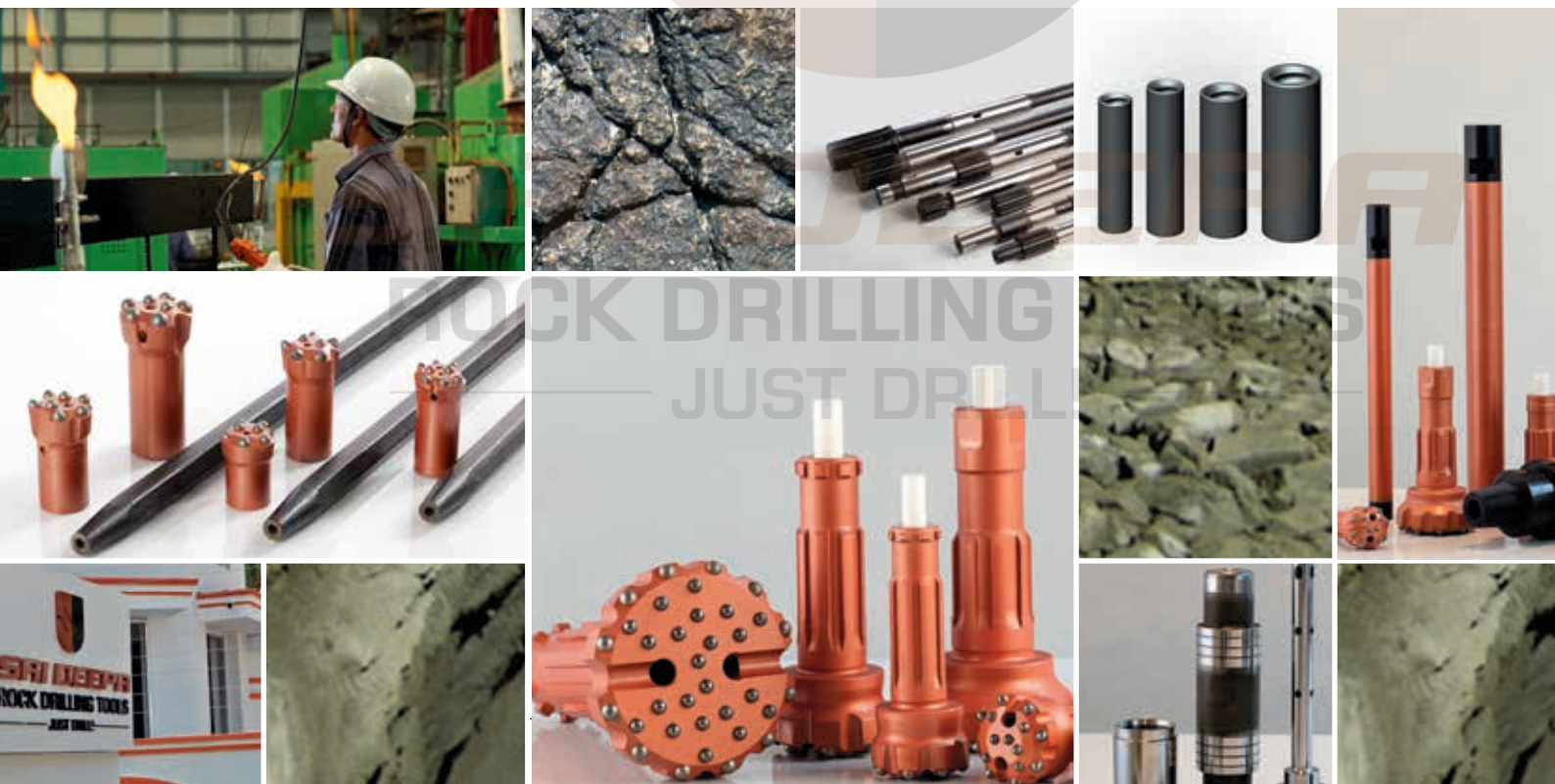
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GLOBAL CLIENTELE



TOP HAMMER ROCK DRILLING TOOLS

Introduction

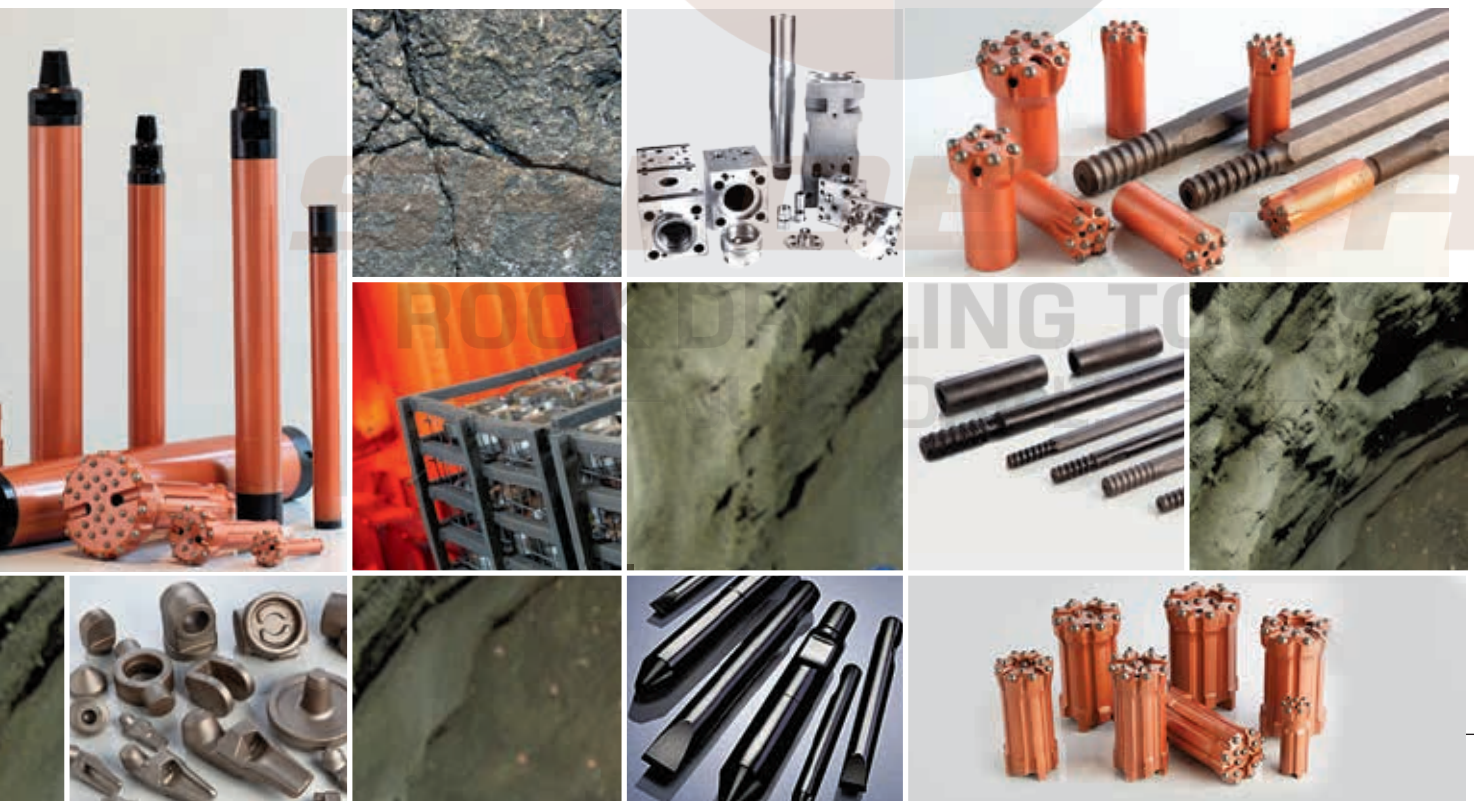
Saideepa is committed to continually develop, manufacture and distribute the best quality most economical rock drilling tools for mining, construction, water well and Oil & Gas segments, and provide the best possible value for its main stakeholders – customers, shareholders and employees. These tools are designed to transmit optimum impact energy into the rock with the least possible loss of energy, and are made to handle the toughest jobs around the globe. We plan to achieve market leadership through set of principles that guide decisions and behaviour throughout the company.

Each project needs to achieve the best possible operating costs and outcome for business. Complex rock formations and difficult terrain can be a real challenge for any driller. With a range of solutions and high quality durable top hammer drilling tools, Saideepa partners with you to succeed in reaching optimal project outcomes.

Top hammer rock drilling tools have been specially designed for hard to very hard and abrasive rock formations covering all construction, quarrying and mining drill and blast applications. Tunnelling is one of the most important customer segments and applications such as drifting and roof bolt hole drilling are well catered for. Our bits have shown increase in penetration rate and also a substantially longer service life up to 20%.

Our Top hammer products include:

- Taper rods and bits
- Complete range of threaded button bits
- Drifter rods and extension rods
- Coupling and reduction sleeves
- Shank adapters suitable to all hydraulic drifters





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ROCK DRILL

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Concave

This type of face design will be used in medium hard and fissured rock formations and it controls hole deviation.



Convex

This type of face design will be used in medium hard and fissured rock formations and it gives faster penetration rates.



Flat

This type of face design is very aggressive in drilling application and is suited best for very hard rock formations and it gives good penetration rates.



Flat Face with Face Grooves

This type of face design bits are best suited for medium – hard and fissured rock formations for good flushing.



Drop Centre

This type of face design is best suited for less hard and medium type rock formations. The drop centre bit drills straight holes while maintaining good penetration.

Button Shapes





Spherical

This button is the most common shape used in threaded button bits. This shape is the strongest and most resistant to breakage. Spherical shape provides excellent penetration in medium rock, hard rock broken formations and in all types of drilling conditions.



Ballistic

Normally this button is used in soft drilling formations. This type of button tip protrudes out more so it is very aggressive and yields high penetration rates. Ballistic is prone to breakage if used in wrong formations.



Semi ballistic

This type of buttons is used in medium hard to hard rock drilling formations and it gives higher penetration rate than spherical.



Parabolic

Normally this button is used in medium soft to medium hard rock drilling formations. This type of button gives higher penetration than spherical and breakage resistant than ballistic.



Spike

Normally this button is used in soft and medium hard rock drilling formations.

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ROCK DRILLING TOOLS

JUST DRILL!

Threaded Bits



ROCK DRILLING TOOLS
JUST DRILL

THREADED BITS

R22 (7/8") Thread Bits

	Button Bit Regular		BIT diameter		Buttons Qty x Size, mm		Angle	Flushing Hole		Product No
			MM	Inch	Gauge	Face	0°	Face	Side	
			38	1 1/2"	4 x 9	2 x 8	25°	2	0	
			38	1 1/2"	5 x 9	2 x 7	30°	1	1	
			41	1 5/8"	5 x 9	2 x 8	30°	1	1	
			48	1 7/8"	5 x 11	2 x 8	30°	1	2	

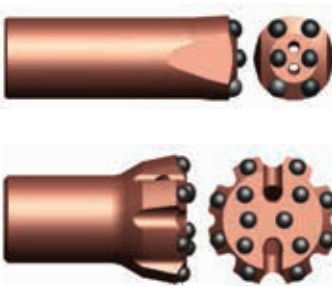
R25 (1") Thread Bits

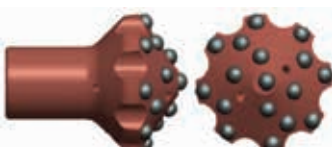
	Button Bit Regular		BIT diameter		Buttons Qty x Size, mm		Angle	Flushing Hole		Product No
			MM	Inch	Gauge	Face	0°	Face	Side	
			38	1 1/2"	5 x 9	2 x 7	30°	1	1	
			45	1 3/4"	5 x 11	2 x 8	30°	1	2	
			45	1 3/4"	6 x 10	3 x 8	25°	3	1	
			48	1 7/8"	6 x 10	3 x 8	30°	3	1	

R28 (1 1/8") Thread Bits

	Button Bit Regular		BIT diameter		Buttons Qty x Size, mm		Angle	Flushing Hole		Product No
			MM	Inch	Gauge	Face	0°	Face	Side	
			38	1 1/2"	4 x 9	2 x 8	25°	2	0	
			41	1 5/8"	5 x 9	2 x 8	30°	1	1	

R32 (1 1/4") Thread Bits

	Button Bit Regular		BIT diameter		Buttons Qty x Size, mm		Angle	Flushing Hole		Product No
			MM	Inch	Gauge	Face	0°	Face	Side	
			45	1 3/4"	4 x 11	2 x 9	30°	2	0	
			45	1 3/4"	5 x 11	2 x 8	30°	1	2	
			45	1 3/4"	6 x 10	3 x 8	25°	3	1	
			48	7/8"	6 x 10	3 x 8	30°	3	1	
			51	2"	6 x 10	3 x 9	30°	3	1	
			51	2"	5 x 12	2 x 10	30°	1	2	
			51	2"	6 x 11	2 x 9	30°	2	2	
			57	2 1/4"	6 x 11	3 x 10	30°	3	1	
			64	2 1/2"	6 x 12	3 x 11	30°	1	1	
			64	2 1/2"	8 x 10	4 x 9	30°	2	0	
			76	3"	8 x 11	4 x 11	35°	2	0	
			102	4"	8 x 14	6 x 12	35°	2	1	
			102	4"	7 x 14	7 x 12	35°	2	0	

	Dome Bits		DIA		Thread	No. of Gauge Buttons		No. of Face Buttons		Flush Holes		Product
			MM	Inch		Qty X Size		Qty X Size		Face	Side	
			89	3 1/2"	R32	8 X 13		7 X 13		2	2	
			102	4"	R32	8 X 13		9 X 13		2	2	

	Reamer Bits 12°		Diameter		No. of Gauge Buttons		No. of Face Buttons		Gauge	Product No
			MM	INCH	Qty X Size		Qty X Size			
			89	3 1/2"	8 X 12		4 X 10		35	
			102	4"	8 X 12		4 X 10		35	

THREADED BITS

Pilot Bit 12°



Insert Width	Thread	Product No.
38	R32	76-038412

R38 (1 1/2") Thread Bits

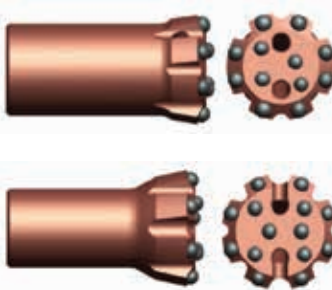
Button Bit Regular



BIT diameter MM Inch	Buttons Qty x Size, mm Gauge Face	Angle 0°	Flushing Hole		Product No
			Face	Side	
64 2 1/2"	8 x 10 4 x 10	30°	2	0	46-5841064UP
76 3"	8 x 11 4 x 11	35°	2	0	46-58410761S

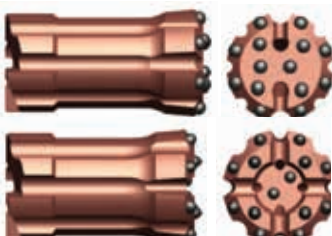
T38 (1 1/2") Thread Bits

Button Bit Regular



BIT diameter MM Inch	Buttons Qty x Size, mm Gauge Face	Angle 0°	Flushing Hole		Product No
			Face	Side	
64 2 1/2"	6 x 11 4 x 10	35°	3	0	46-A64E064RS
64 2 1/2"	6 x 11 4 x 9	30°	3	0	46-A64E064SP
64 2 1/2"	8 x 10 4 x 10	30°	2	0	46-A841064US
76 3"	6 x 12 4 x 12	35°	2	0	46-A6250764S
76 3"	6 x 13 4 x 11	35°	3	1	46-A64D0765P
76 3"	7 x 12 5 x 10	35°	2	0	46-A7510762S
76 3"	8 x 11 4 x 11	35°	2	0	46-A8410761S
76 3"	8 x 11 4 x 11	35°	2	2	46-A8430761B
89 3 1/2"	8 x 14 6 x 12	35°	2	1	46-A8620896S

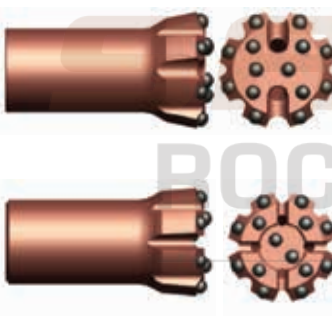
Button Bit Retract



BIT diameter MM Inch	Buttons Qty x Size, mm Gauge Face	Angle 0°	Flushing Hole		Product No
			Face	Side	
64 2 1/2"	6 x 12 3 x 10	35°	1	1	56-A6230642S
76 3"	7 x 12 5 x 10	35°	2	0	56-A7510762P
76 3"	6 x 11 4 x 11	35°	3	0	56-A64E0761S
89 3 1/2"	8 x 12 6 x 12	35°	2	1	56-A8620894P
95 3 3/4"	8 x 12 6 x 12	35°	2	2	56-A8630954P
95 3 3/4"	8 x 11 4 x 11	30°	4	1	56-A86H095RP

T45 (1 3/4") Thread Bits

Button Bit Regular



BIT diameter MM Inch	Buttons Qty x Size, mm Gauge Face	Angle 0°	Flushing Hole		Product No
			Face	Side	
76 3"	7 x 12 5 x 10	35°	2	0	46-B7510762S
76 3"	8 x 11 4 x 11	35°	2	0	46-B8410761S
76 3"	8 x 11 4 x 11	35°	2	0	46-B8410761B
76 3"	8 x 12 5 x 11	35°	2	2	46-B8510763D
89 3 1/2"	6 x 12 5 x 12	35°	3	0	46-B65D0894P
89 3 1/2"	6 x 12 5 x 12	40°	3	0	46-B65D0894P
89 3 1/2"	8 x 12 6 x 12	35°	2	1	46-B8620894S
89 3 1/2"	8 x 12 6 x 12	35°	2	1	46-B8620894B
89 3 1/2"	8 x 14 6 x 12	35°	2	0	46-B8610896S
102 4"	8 x 14 6 x 12	35°	4	0	46-B86E1026S
115 4 1/2"	8 x 14 8 x 12	35°	2	0	46-B8811156S

THREADED BITS

Button Bit Retract		BIT diameter		Buttons Qty x Size, mm		Angle 0°	Flushing Hole		Product No
		MM	Inch	Gauge	Face		Face	Side	
		76	3 "	8 x 12	4 x 11	35°	2	0	56-B8410763P
		76	3 "	8 x 11	4 x 11	35°	2	2	56-B8430761B
		89	3 1/2"	8 x 12	4 x 12	35°	4	0	56-B84D0894P
		102	4 "	8 x 12	7 X 12	35°	2	0	56-B8711024S
		102	4 "	8 x 14	4 x 13				56-B86G102NS
					2 X 12	35°	4	0	
		105	4 "	8 X1 2	6 X 11	35°	4	1	56-B86F1053K

T51 (2") Thread Bits

Button Bit Regular		BIT diameter		Buttons Qty x Size, mm		Angle 0°	Flushing Hole		Product No
		MM	Inch	Gauge	Face		Face	Side	
		89	3 1/2"	8 x 14	6 x 12	35°	2	0	46-C8610896S
		102	4 "	6 x 19	4 x 14	35°	2	0	46-C625102PS
		102	4 "	8 x 14	6 x 12	35°	2	0	46-C8611026S
		115	4 1/2"	7 X 19	5 X 14	35°	2	0	46-C751115PS
		115	4 1/2 "	8 x 14	8 x 12	35°	2	0	46-C8811156S
		115	4 1/2 "	8 x 16	6 x 14	35°	2	2	46-C863115QS
		127	5 "	8 x 16	7 x 14	35°	2	0	46-C871127QS
		127	5 "	8 x 16	6 x 14				
					2 x 12	35°	4	1	46-C88D127LS
		140	5 1/2 "	8 x 16	8 x 14	35°	2	0	46-C881140QS

Button Bit Retract		BIT diameter		Buttons Qty x Size, mm		Angle 0°	Flushing Hole		Product No
		MM	Inch	Gauge	Face		Face	Side	
		89	3 1/2"	8 x 14	6 x 12	35°	2	0	56-C861089PS
		89	3 1/2 "	9 x 11	5 x 11	35°	3	0	56-C95D0891B
		89	3 1/2 "	8 x 12	6 x 12	35°	4	0	56-C86E0894S
		102	4 "	8 x 14	4 x 13				
					2 x 12	35°	4	0	56-C86G102NS
		102	4 "	8 x 14	6 x 13	35°	2	0	56-C8611027P
		115	4 1/2 "	8 x 14	7 x 12	35°	4	0	56-C87E1156P
		115	4 1/2 "	8 x 14	8 x 12	35°	2	0	56-C8811156S
		127	5 "	8 x 14	7 x 14	35°	2	0	56-C8711278S
		127	5 "	8 x 14	7 x 14	35°	2	0	56-C87D1278P

T60 (2 5/16") Thread Bits

Button Bit Regular		BIT diameter		Buttons Qty x Size, mm		Angle 0°	Flushing Hole		Product No
		MM	Inch	Gauge	Face		Face	Side	
		92	3 5/8"	8 X 12	6 X 12	35°	4	0	46-D86E0924S
		102	4 "	8 x 14	4x13				
					2X12	35°	4	0	46-D86G102NS
		115	4 1/2 "	8 x 14	4 x 14				
					2 X 12	35°	4	0	46-D86G115MS
		127	5 "	8 x 14	4 x 14				
					3 x 14	35°	2	0	46-D87F1278S

Button Bit Retract		BIT diameter		Buttons Qty x Size, mm		Angle 0°	Flushing Hole		Product No
		MM	Inch	Gauge	Face		Face	Side	
		92	3 5/8"	8 x 12	6 x 12	35°	2	0	56-D8610924P
		92	3 5/8 "	8 x 12	6 x 12	35°	4	0	56-D86E0924P
		102	4 "	8 x 12	7 x 12	35°	2	0	56-D8711024S
		102	4 "	8 x 14	4 x 13				
					2 x 12	35°	4	0	56-D86G102NS
		115	4 1/2 "	8 x 14	8 x 12	35°	2	0	56-D8811156P
		115	4 1/2 "	8 x 14	4 x 14				
					3 X 12	35°	4	0	56-D87G115MP
		127	5 "	8 x 14	7 x 14	35°	2	0	56-D8711278P

Taper Bits & Rods

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TAPER BITS

4 Gauge



BIT diameter		No. of Buttons	Buttons Qty x Size, mm	Angle	Flush Hole		Product
MM	Inch	Qty	Gauge	Face	0°	Face Side	
36	1 3/7"	6	4 x 8	2 x 8	7	1 0	66-0742138P

5 Gauge



BIT diameter		No. of Buttons	Buttons Qty x Size, mm	Angle	Flush Hole		Product
MM	Inch	Qty	Gauge	Face	0°	Face Side	
38	1 1/2"	7	5 x 9	2 x 7	11°	1 1	66-1152138XP
38	1 1/2"	7	5 x 9	2 x 7	12°	1 1	66-1252138XP
40	1 5/8"	7	5 x 9	2 x 7	11°	1 1	66-1152140XP
40	1 5/8"	7	5 x 9	2 x 7	12°	1 1	66-1252140XP

6 Gauge



BIT diameter		No. of Buttons	Buttons Qty x Size, mm	Angle	Flush Hole		Product
MM	Inch	Qty	Gauge	Face	0°	Face Side	
32	1 3/4"	8	6 x 10	2 x 8	12°	2 1	66-1262X32WP
34	1 3/4"	8	6 x 10	3 x 8	12°	3 1	66-1262X34WP

TAPER RODS

Taper Rod, Shanks 22 x 108



Taper	Length	Product
12°	610	68-0610-12
12°	1220	68-1220-12
12°	1830	68-1830-12
12°	2440	68-2440-12
12°	3050	68-3050-12
12°	3660	68-3660-12

Taper Rod, Shanks 22 x 108



Taper	Length	Product
11°	1220	68-1220-11
11°	1830	68-1830-11
11°	1980	68-1980-11
11°	2440	68-2440-11
11°	3050	68-3050-11

Taper Rod, Shanks 22 x 108



Taper	Length	Product
7°	610	68-0610-07
7°	1220	68-1220-07
7°	1830	68-1830-07
7°	1980	68-1980-07
7°	2440	68-2440-07
7°	3050	68-3050-07
7°	3660	68-3660-07

Extension & Drifter Rods



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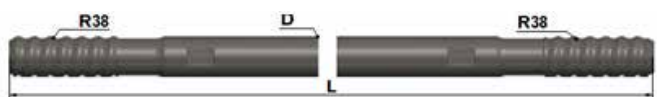
EXTENSION & DRIFTER RODS

Extension Rods R32-Round-R32



Length	OD	Product
0915	32	58-3209
1220	32	58-3212
1830	32	58-3218
2435	32	58-3224
3050	32	58-3231
3660	32	58-3237

Extension Rods R38-Round-R38



Length	OD	Product
1220	39	58-3812
1830	39	58-3818
2435	39	58-3824
3050	39	58-3831

Extension Rods T38-Round-R32



Length	OD	Product
4305	39	48-6314-7243
4915	39	48-6314-7249
5525	39	48-6314-7255
6135	39	48-6314-7261

Extension Rods T45-Round-T45



Length	OD	Product
3050	46	58-4531
3660	46	58-4537
4265	46	58-4543
6095	46	58-4561

Extension Rods T51-Round-T51



Length	OD	Product
3660	52	58-5137
4265	52	58-5143
6095	52	58-5161

DRIFTING AND TUNNELLING TOOLS

Drifter Rods R32-H32-R28



Length	OD	Product
3090	32	48-6843-8731

Drifter Rods R32-H28-R28



Length	OD	Product
3090	28	48-6843-7631
3700	28	48-6843-7637
4005	28	48-6843-7640
4305	28	48-6843-7643

Extension & Drifter Rods



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EXTENSION & DRIFTER RODS

Drifter Rods R38-H32-R28



Length	OD	Product
3090	32	48-6844-8731
3700	32	48-6844-8737
4005	32	48-6844-8743

Drifter Rods R38-H35-R32



Length	OD	Product
3090	35	48-6844-9631
3700	35	48-6844-9637
4305	35	48-6844-9643
4915	35	48-6844-9649
5525	35	48-6844-9655

Drifter Rods R38-H32-R32



Length	OD	Product
3090	32	48-6844-8637
4305	32	48-6844-8643
4915	32	48-6844-8649

Drifter Rods T38-H32-R32



Length	OD	Product
3700	32	48-6314-8637
4305	32	48-6314-8643

Drifter Rods T38-H35-R32



Length	OD	Product
3700	35	48-6314-9637
4305	35	48-6314-9643
4915	35	48-6314-9649
5525	35	48-6314-9655
6135	35	48-6314-9661

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Shank Adapters



SHANK ADAPTERS

SANDVIK

HL 600-45 / 600S-45



Thread	L	Product No	WEIGHT (KG)
T45	600	88-B-7532-01	6.3

HL 650-45 / 700-45 / 700T-45 / 710-45 / 800T-45



Thread	L	Product No	WEIGHT (KG)
T45	600	88-B-7576-01	7.2

HL 1000-52 / 1000S-52



Thread	L	Product No	WEIGHT (KG)
T51	670	88-C-6010-02	10.1

HLX5 / HLX5T



Thread	L	Product No	WEIGHT (KG)
R38	500	88-5-7585-01	5.2

HL500-S38 / HL510-S38 / 510B / 510LH



Thread	L	Product No	WEIGHT (KG)
R32	460	88-4-7531-01	3.8

HL 550 / HL 560 SUPER



Thread	L	Product No	WEIGHT (KG)
R38	500	88-5-7554-01	5.0

HL 550 SUPER / TOM ROCK HL500-45 / 510-45



Thread	L	Product No	WEIGHT (KG)
T45	550	88-B-7557-01	5.9
R32	550	88-4-7557-01	5.6
T38	500	88-A-7554-01	5.8

HL 650-52,700-52 / PE-52 / S-52,710-52 / S52 / PE-52



Thread	L	Product No	WEIGHT (KG)
T51	600	88-C-7577-02	8.8
T45	600	88-B-7577-02	
T38	600	88-A-7577-02	

SHANK ADAPTERS

FURUKAWA

M120 – Pd200



Thread	L	Product No	WEIGHT (KG)
T38	380	88-A-7543-60	3.6
R32	330	88-4-7500-60	

HD 709



Thread	L	Product No	WEIGHT (KG)
T38	620	88-A-7426-01	6.0

HD 609



Thread	L	Product No	WEIGHT (KG)
T38	690	88-A-4780-01	6.2
T45	620	88-B-4791-01	6.2
T45	690	88-B-4780-01	6.2

HD 612



Thread	L	Product No	WEIGHT (KG)
T45	710	88-B-7414-01	6.0

HD 712



Thread	L	Product No	WEIGHT (KG)
T45	790	88-B-7417-01	6.2

HD 300 FT38-13



Thread	L	Product No	WEIGHT (KG)
T38	655	88-A-7526-80	5.8

HD 300 T45



Thread	L	Product No	WEIGHT (KG)
T45	655	88-B-7526-80	6.6

MITSUBISHI

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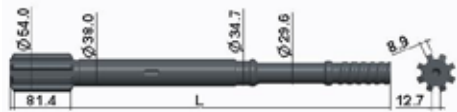


Thread	L	Product No	WEIGHT (KG)
T38	580	88-A-M5800115	5.6

SHANK ADAPTERS

ATLAS COPCO

COP1432/1532/1440/1838 HD/ME



Thread	L	Product No	WEIGHT (KG)
R38	435	88-5-3652-01	4.0
R32	435	88-4-3652-01	4.0
T38	435	88-A-3652-01	4.0
R32	525	88-4-3656-01	4.1

COP1038HD/1238



Thread	L	Product No	WEIGHT (KG)
T38	485	88-A-3590-03	4.1
R38	485	88-5-3590-03	4.3
T38	575	88-A-3550-01	4.6

COP1038 HL T-45



Thread	L	Product No	WEIGHT (KG)
T45	575	88-B-3593-01	4.7

BBC 51, 52, 54 and 120



Thread	L	Product No	WEIGHT (KG)
R32	380	88-4-4200-30	3.0
T38	390	88-A-4200-30	3.2
R38	390	88-5-4200-30	3.2

BBC 43,44,45,100



Thread	L	Product No	WEIGHT (KG)
R32	380	88-4-3100-30	3.0

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— JUST DRILL! —

SHANK
ADAPTERS

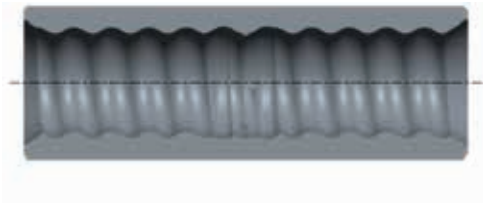
Coupling Sleeves



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ROCK DRILLING TOOLS
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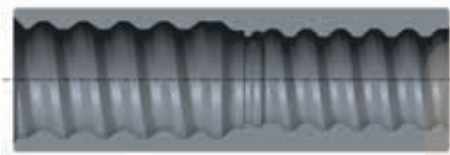
COUPLING SLEEVES

STANDARD COUPLING SLEEVE



Thread Type	Dia	Length	Product Code
R32	44	140	781-4R-44-140-F
R25	35	150	781-2R-35-150-F
R28	44	150	781-3R-44-150-F
R32	44	150	781-4R-44-150-F
R38	55	170	781-5R-55-170-F
T38	55	170	781-AT-55-170-F
T38	55	190	781-AT-55-190-F
T45	63	210	781-BT-63-210-F
T51	77	235	781-CT-77-235-F

REDUCTION COUPLING SLEEVE



Thread Type		Dia	Length	Product Code
F1	F2			
R32	R28	44	165	781-43R-44-165-F
R38	R28	55	170	781-53R-55-170-F
T38	R32	55	195	781-A41-55-195-F
T51	T45	71	218	781-CBT-71-218-F

BIT ADAPTERS

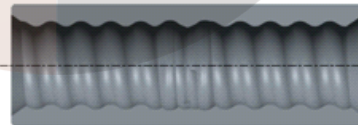


Thread Type		Dia	Length	Product Code
F	M			
R28	R32	40	230	781-34R-40-230-4
R32	R38	45	225	781-45R-45-225-4
R38	R32	55	270	781-54R-55-270-4
T38	R32	57	270	781-A41-57-270-4
T45	T38	63	265	781-BAT-63-265-4
T51	T45	71	285	781-CBT-71-285-4

COUPLING SLEEVE TYPE

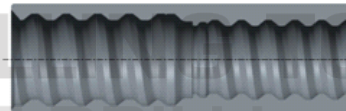
STANDARD COUPLING SLEEVE

This coupling sleeve is very common in the industry standard. It connects two female threads like R32 – R32, T38–T38, etc.



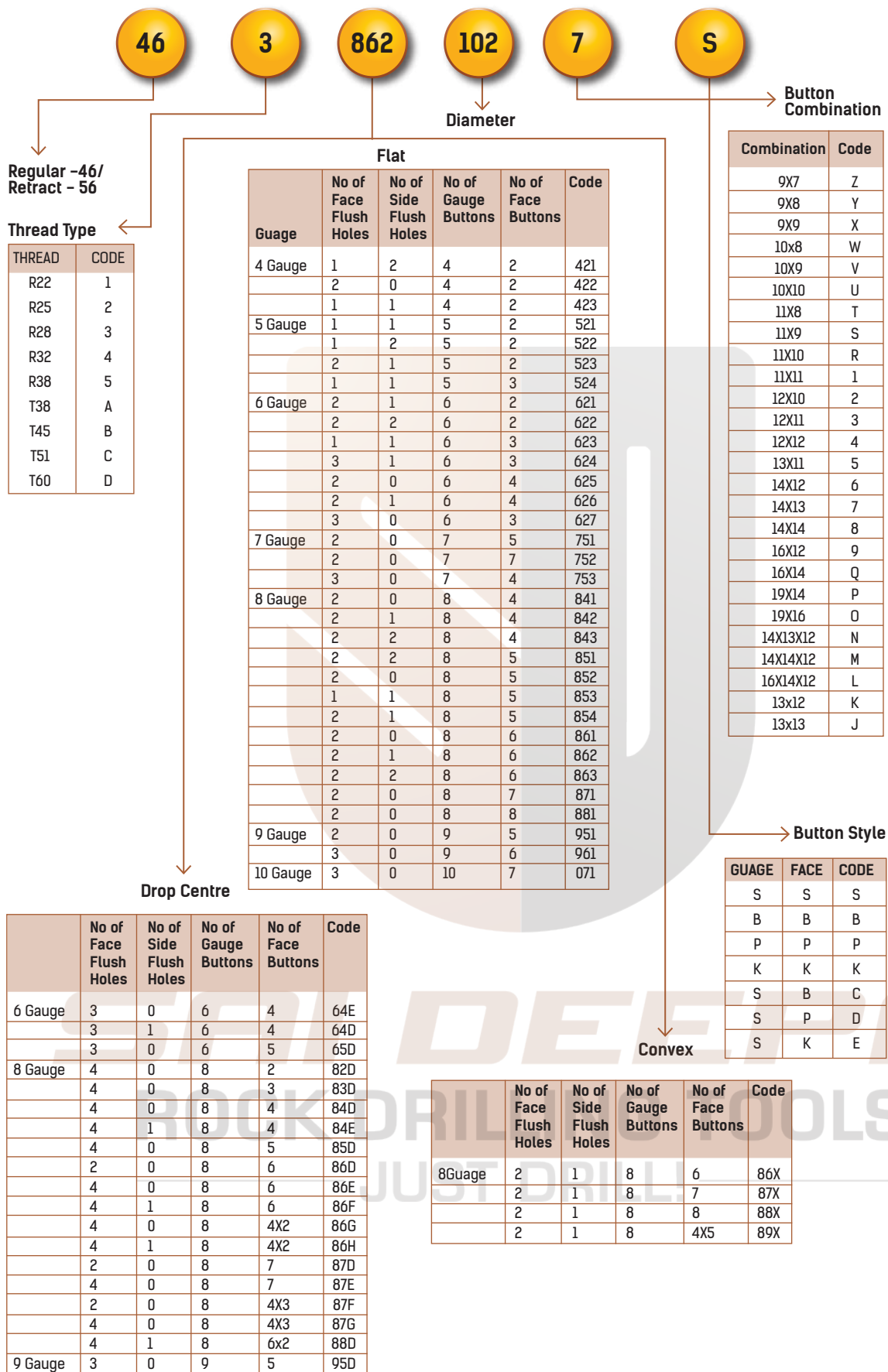
REDUCTION COUPLING SLEEVE

Reduction coupling sleeve is very common in the industry. It connects two different female threads like R32 – R38, T45–T38, T51–T38, etc.



SPECIFICATION CHART

BUTTON BIT



SPECIFICATION CHART

DOVE BIT

86

Code

089

Diameter

4

Thread

THREAD	CODE	THREAD	CODE	THREAD	CODE
R22	1	R32	4	T45	B
R25	2	R38	5	T51	C
R28	3	T38	A	T60	D

REAMER BIT

76

Code

089

Diameter

12

Taper

ANGLE	CODE
11°	11
12°	12

PILOT BIT

78

Code

038

Insert Width

4

Thread

Thread	Code	Thread	Code
R22	1	R28	3
R25	2	R32	4
		R38	5

12

Taper

TAPER BIT

66

06

421

36

Y

P

Taper Bits
Taper Angle Code

ANGLE	CODE
07°	07
11°	11
12°	12

Diameter

Gauge	Flat				Code
	No of Face Flush Holes	No of Side Flush Holes	No of Gauge Buttons	No of Face Buttons	
4 G auge	1	0	4	2	421
5 G auge	1	1	5	2	521

GUAGE	FACE	CODE
S	S	S
B	B	B
P	P	P
K	K	K
S	B	C
S	P	D
S	K	E

Convex

Gauge	No of Face Flush Holes	No of Side Flush Holes	No of Gauge Buttons	No of Face Buttons	Code
4 G auge	2	1	6	2	62X

Button Combination

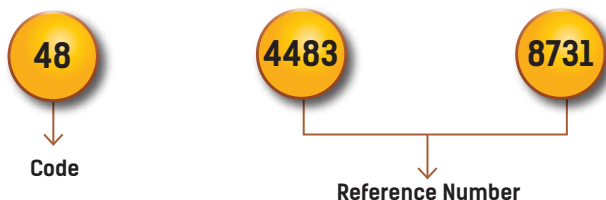
Combination	Code
7x7	Z
8x8	Y
9x7	X
10x8	W

SPECIFICATION CHART

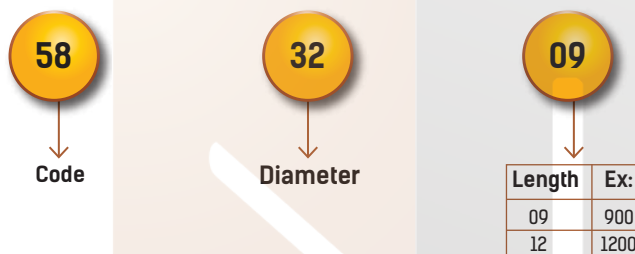
TAPER ROD



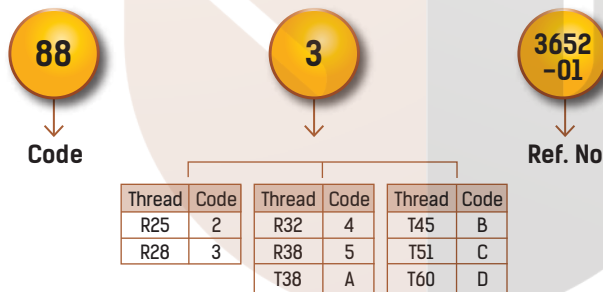
DRIFTING & TUNNELING ROD



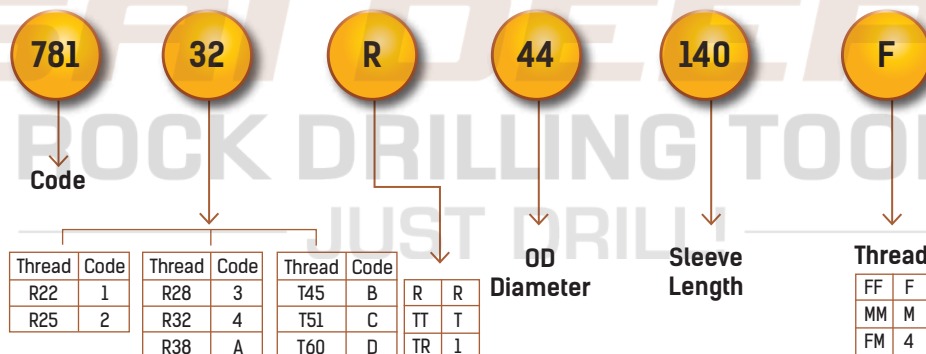
EXTENSION ROD



SHANK ADAPTER



COUPLING SLEEVES



NOTES



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