



SVE DRILLING TOOLS

Product catalogue
TOP HAMMER TOOLS



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ABOUT SVE

SVE® is one of the leading manufacturers of Rock drilling tools and Mining Equipment in India. The Product range includes DTH Hammers, DTH button Bits, TOP HAMMER products (Drifter bits, shank adapters, coupling sleeves etc.,) and related products used in water well drilling, Mining and Construction segments. The Company products are acceptable globally in more than 20 countries.

The company has set up a state-of-the-art production facility for the manufacturing of Rock Drilling Tools which includes in-house forging,

excellent CNC equipped Machine shop, Heat Treatment with Sealed Quenching Furnaces, Metallurgical Laboratory, Quality Control Department and Surface Treatment plant. The company uses the best quality of Raw materials. Stringent Quality Systems are adopted to produce world class products at most



competitive prices. The company has a dedicated Research and Development unit where the skilled engineers are continuously involved in upbringing durable product designs to give the product a total reliability, high productivity and complete customer satisfaction.




ISO 9001:2015 Certified Company

SVE® has established and applied quality management system for design, manufacturing and supplying of DTH Hammers and Button Bits. Our quality management systems are inspected by M/s TUV – SUD of Germany and awarded us by an ISO 9001-2015 certificate.





Trademark Registration

The name of our organization has been registered by the intellectual property, Government of India. As per this trade mark, the company's name and logo will have its registration mark as . This means no other company should infringe to make use of this company name in this industrial segment.



ENVIRONMENT, HEALTH AND SAFETY

At SVE[®], we are committed for safety and well-being of our employees and customers. All the field personnel, sales & service personnel and operators should collect and apply the safety procedures throughout their work. A methodology of risk assessments should be employed before drilling. With continued demand from mining and construction companies and water well drilling customers, to ensure safety and increase productivity, we at SVE[®] are committed to providing the support needed through safe products and product information. All the service personnel and operators are advised to follow the safety rules and regulations according to the mine sites and if needed they can undergo safety training and medical tests conducted at customer site, before heading to the work.

Personal safety measures

Appropriate personal protective equipment (PPE's) should be worn while in factory premises or working or visiting a field.

Zero% tolerance should be given towards safety while working anywhere.

- Safety helmet with LED light for head protection
- Hearing protection like ear muffs, ear plugs etc
- Safety glasses
- Hand Gloves
- Protective and high visibility clothing
- Safety boots
- Respiratory masks & First aid Kit



RECOMMENDED SAFETY PROCEDURES

1. **Lifting procedures** - Use safe and correct lifting practices while working with heavy items. Consider body position, awkwardness of the item and its weight. Ergonomics are important to lift the heavier weights at work.
2. **Grinding of bits** - Drill bits have cemented carbide buttons. Cemented carbide is made up of tungsten carbide and cobalt. Grinding inserts will produce dusts or fumes with dangerous ingredients that can be inhaled, swallowed or come in contact with the skin or eyes. Do not breathe dust. Wear protective gloves / protective clothing / eye protection. In case of inadequate ventilation wear respiratory protection. Avoid dry grinding.
3. Do not touch any equipment while it is rotating. The rod rotation must be stopped before installing or removing a drill bit.
4. Beware of sharp points between the bit, hammer and the rod.



GLOBAL PRODUCT PRESENCE



APPLICATIONS





DIMENSIONAL STONE

R25 (1") EXTENSION DRILLING TOOLS

BITS	FLUSHING HOLE, MM	BUTTONS, MM	ANGLE	DIMENSIONS	PART NO.			
Button Bit								
	Front No Size	Gauge No Size	Front No Size	Gauge No Size		mm	mm	
	1x4	1x6	2x7	5x9	30°	35	1 3/8"	TH02-3525S-0001
	1x6	1x6	2x7	5x8	40°	35	1 3/8"	TH02-3525B-0002
	1x6	1x6	2x7	5x9	35°	38	1 1/2"	TH02-3825B-0003
	1x6	1x6	2x7	5x9	35°	38	1 1/2"	TH02-3825S-0004
	1x6	1x6	2x8	5x9	35°	41	1 5/8"	TH02-4125S-0005
	3x4.5	-	3x8	6x9	40°	45	1 3/8"	TH02-4536B-0006
	3x4	-	3x9	6x10	30°	48	1 7/8"	TH02-4836S-0007



TUNNELING AND BOLTING

R28 (1 1/8") BIT THREAD

BITS	FLUSHING HOLE, MM		BUTTONS, MM		ANGLE	DIMENSIONS		PART NO.
	Front No Size	Gauge No Size	Front No Size	Gauge No Size		mm	mm	
Button Bit								
	1x5	1x6	2x7	5x9	30°	37	1 7/16"	TH02-3725S-0008
	1x6	1x6	2x7	5x9	35°	38	1 1/2"	TH02-3825B-0009
	1x6	1x6	2x7	5x9	35°	38	1 1/2"	TH02-3825S-0010
	1x6	1x6	2x8	5x9	35°	41	1 5/8"	TH02-4125S-0011
	1x6	1x6	2x8	5x10	35°	43	1 11/16"	TH02-4325S-0012

RODS	DIMENSIONS					PART NO.
Drifter rod, R32 – Hex 28 – R28						
	L mm	ft	in	D mm	in	
	2475	8"	1 1/2"	28	1 1/8"	DR28-3228-0001
	2785	9"	1 5/8"	28	1 1/8"	DR28-3228-0002
	3090	10"	1 5/8"	28	1 1/8"	DR28-3228-0003
	3700	12"	1 5/8"	28	1 1/8"	DR28-3228-0004
4305	14"	1 1/2"	28	1 1/8"	DR28-3228-0005	

Coupling sleeve, R32




L mm	ft	in	D mm	in	PART NO.
150	-	5 29/32"	44	1 47/34"	CS32-044-0001



TUNNELING AND BOLTING

R32 (1 1/4") BIT THREAD

BITS	FLUSHING HOLE, MM		BUTTONS, MM		ANGLE	DIMENSIONS D		PART NO.
	Front No Size	Gauge No Size	Front No Size	Gauge No Size		mm	mm	
	1x6	1x6	2x8	5x9	35°	41	1 5/8"	TH04-4125S-0013
	1x5	2x6	2x9	5x10	35°	43	1 11/16"	TH04-4325S-0014
	1x5	2x6	2x9	5x11	30°	45	1 3/4"	TH04-4525S-0015
	1x6	2x7.5	2x9	5x11	35°	48	1 7/8"	TH04-4825S-0016
	1x6	2x7.5	2x10	5x12	35°	51	2"	TH04-5125S-0017
	3x4.5	1x4.5	3x8	6x9	30°	43	1 11/16"	TH04-4336B-0018
	3x4.5	1x4.5	3x8	6x10	30°	45	1 3/4"	TH04-4536B-0019
	3x4.5	1x4.5	3x8	6x11	25°	45	1 3/4"	TH04-4536S-0020
	3x5	1x5	3x9	6x11	30°	48	1 7/8"	TH04-4836B-0021
	3x5	1x5	3x9	6x12	30°	48	1 7/8"	TH04-4836S-0022
	3x6	1x6	3x9	6x10	40°	51	2"	TH04-5136B-0023
	3x6	1x6	3x9	6x10	35°	51	2"	TH04-5136S-0024
	3x6	1x6	3x10	6x11	35°	57	2 1/4"	TH04-5736S-0025
	3x7	-	3x11	6x12	30°	64	1 1/4"	TH04-6436S-0026
	2x6	2x6	2x9	6x9	40°	43	1 11/16"	TH04-4326B-0027
	2x6	2x6	2x9	6x10	35°	45	1 3/4"	TH04-4526B-0028
	3x5.5	1x5.5	3x9	6x9	40°	45	1 3/4"	TH04-4536C-0029
	3x5.5	1x5.5	3x9	6x10	40°	48	1 7/8"	TH04-4836C-0030
	3x6	1x6	3x9	6x10	40°	51	2"	TH04-5136C-0031
	3x7	1x7	3x10	6x10	40°	57	2 1/4"	TH04-5736C-0032
	3x8	1x8	3x10	6x11	40°	64	2 1/2"	TH04-6436C-0033
	4x7	-	5x10	8x11	35°	76	3"	TH04-7658S-0034



TUNNELING AND BOLTING

R32 (1 1/4") BIT THREAD

RODS	DIMENSIONS					PART NO.
Drifter rod, R38 – Hex 35 – R32						
<p>Flushing hole Ø 9.5 mm</p>	L			D		
	mm	ft	in	mm	in	
	3090	10"	1 5/8"	35	1 3/8"	DR35-3832-0006
	3700	12"	1 5/8"	35	1 3/8"	DR35-3832-0007
	4305	14"	1 1/2"	35	1 3/8"	DR35-3832-0008
4915	16"	1 1/2"	35	1 3/8"	DR35-3832-0009	
5525	18"	1 1/2"	35	1 3/8"	DR35-3832-0010	
Drifter rod, R38 – Hex 32 – R32						
<p>Flushing hole Ø 9.6 mm</p>	2475	8"	1 1/2"	32	1 1/4"	DR32-3832-0011
	3090	10"	1 5/8"	32	1 1/4"	DR32-3832-0012
	3700	12"	1 5/8"	32	1 1/4"	DR32-3832-0013
	4305	14"	1 1/2"	32	1 1/4"	DR32-3832-0014
	4915	16"	1 1/2"	32	1 1/4"	DR32-3832-0015
Drifter rod, R38 – Hex 32 – R32						
<p>Flushing hole Ø 9.6 mm.</p>	2475	8"	1 1/2"	32	1 1/4"	DR32-3832-0016
	3090	10"	1 5/8"	32	1 1/4"	DR32-3832-0017
	3700	12"	1 5/8"	32	1 1/4"	DR32-3832-0018
	4305	14"	1 1/2"	32	1 1/4"	DR32-3832-0019
	4915	16"	1 1/2"	32	1 1/4"	DR32-3832-0020
MF Drifter rod, T38 – Hex 35 – R32						
<p>Flushing hole Ø 9.5 mm</p>	3090	10"	1 5/8"	32	1 1/4"	MF35-3832-0021
	3700	12"	1 5/8"	32	1 1/4"	MF35-3832-0022
	4305	14"	1 1/2"	32	1 1/4"	MF35-3832-0023
Coupling sleeve						
	170	-	6 3/4"	55	2 5/32"	CS32-055-0002
	191	-	7 1/2"	52	2"	CS32-052-0003



BENCH DRILLING



R32 (1 1/4")

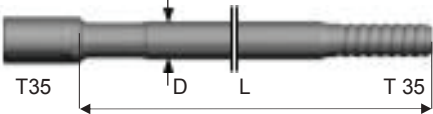
BITS	FLUSHING HOLE, MM		BUTTONS, mm		ANGLE	DIMENSIONS		PART NO.
Button Bit								
	Front No Size	Gauge No Size	Front No Size	Gauge No Size		mm	mm	
	3x6	1x6	3x9	6x10	40°	51	2"	TH04-5136B-0035
	3x6	1x6	3x9	6x10	35°	51	2"	TH04-5136S-0036
	3x6	1x6	3x10	6x11	35°	57	2 1/4"	TH04-5736S-0037
	3x7	-	3x11	6x12	30°	64	2 1/2"	TH04-6436S-0038
	4x7	-	5x10	8x11	35°	76	3"	TH04-7658S-0039
	3x6	1x6	3x9	6x10	40°	51	2"	TH04-5136C-0040
	3x7	1x7	3x10	6x10	40°	57	2 1/4 "	TH04-5736C-0041
	3x8	1x8	3x10	6x11	40°	64	2 1/2 "	TH04-6436C-0042
BUTTON BIT								
	3X6	-	3X9	6x10	35°	51	2"	TH04-5136B-0043
	3X6	-	3X9	6x10	35°	51	2"	TH04-5136S-0044
	4x7	-	5x9	8x10	30°	64	3 1/2"	TH04-6458S-0045



BENCH DRILLING

T35 (1 3/8")









BITS	FLUSHING HOLE, MM		BUTTONS, MM		ANGLE	DIMENSIONS		PART NO.
	front No Size	Gauge No Size	Front No Size	Gauge No Size		mm	mm	
Button Bit, regular skirt								
	3x6	1x6	3x9	6x11	30°	54	2 1/8"	TH010-5436S-0046
	Button bit, retrac							
	3x6	-	3x9	6x10	35°	54	2 1/8 "	TH010-5436B-0047
	3x7	-	3x10	6x11	35°	57	2 1/4"	TH010-5736B-0048

RODS	DIMENSIONS					PART NO.
	L mm	ft	in	D mm	in	
MF-rod, T35 – round 39 – T35, Female end Ø 48.2 mm. Flushing hole Ø 14.5 mm.						
	1830	6"	-	39	1 1/2 "	MF39-3535-0024
	3050	10 "	-	39	1 1/2 "	MF39-3535-0025
	3660	12 "	-	39	1 1/2 "	MF39-3535-0026



BENCH DRILLING

T38 (1 1/2 ")

BITS	FLUSHING HOLE, MM		BUTTONS, mm		ANGLE	DIMENSIONS		PART NO.
						mm	In	
Button Bit, regular skirt								
	front No Size	Gauge No Size	Front No Size	Gauge No Size		mm	In	
	3x7	1x7	3x9	6x11	35°	54	2 1/8"	TH07-5436B-0049
	3x8	-	3x11	6x12	35°	64	2 1/2"	TH07-6436B-0050
	3x8	-	3x11	6x12	30°	64	2 1/2"	TH07-6436S-0051
	4x8	-	5x10	8x11	30°	70	2 3/4"	TH07-7058S-0052
	4x8	-	5x11	8x12	35°	76	3"	TH07-7658B-0053
	4x8	-	5x11	8x12	35°	76	3"	TH07-7658S-0054
	4x8	-	5x12	8x12	35°	89	3 1/2"	TH07-8958S-0055
	2x11	1x6	4x10	8x10	30°	67	2 1/2 "	TH07-6748S-0056
	2x11	1x6	6x10	8x11	35°	78	3"	TH07-7868S-0057
								
	3x8	1x8	3x10	6x11	40°	64	2 1/2"	TH07-6436C-0058
								
	3x8	1x8	4x11	6x12	40°	76	3"	TH07-7646C-0059
Button bit, Retrac								
	4x7	-	5x9	8x10	35°	64	2 1/2"	TH07-6458B-0060
	4x8	-	5x10	8x11	30°	70	2 3/4"	TH07-7058S-0061
	4x8	-	5x11	8x12	35°	76	3"	TH07-7658B-0062
	4x8	-	5x12	8x12	35°	76	3"	TH07-7658S-0063
	2x10	1x6	4x10	8x10	30°	64	2 1/2 "	TH07-6448S-0064
	2x11	1x6	6x10	8x11	35°	76	3"	TH07-7668S-0065
								
	3x8	-	4x9	6x10	40°	64	2 1/2 "	TH07-6446B-0066
	3x8	-	4x9	6x10	35°	64	2 1/2 "	TH07-6446S-0067
	4x8	-	6x10	8x11	35°	76	3"	TH07-7668B-0068
	4x7	-	6x10	8x11	30°	76	3"	TH07-7668S-0069



BENCH DRILLING





T38/T38+ (1 1/2")

RODS	DIMENSIONS					PART NO.
	L mm	ft	in	D mm	in	
MF-rod, T38 – round 39 – T38, Flushing hole Ø 14.5 mm. Female end OD 56mm						
	915	3"	-	39	1 ½ "	MF39-3838-0027
	1220	4"	-	39	1 ½ "	MF39-3838-0028
	1525	4"	-	39	1 ½ "	MF39-3838-0029
	1830	6"	-	39	1 ½ "	MF39-3838-0030
	3050	10"	-	39	1 ½ "	MF39-3838-0031
	3050	10"	-	39	1 ½ "	MF39-3838-0032
	3660	12"	-	39	1 ½ "	MF39-3838-0033
	3660	12"	-	39	1 ½ "	MF39-3838-0034
	4265	14"	-	39	1 ½ "	MF39-3838-0035
	4265	14"	-	39	1 ½ "	MF39-3838-0036
Extension rod, T38 – round 39 – T38, Flushing hole Ø 14.5 mm. Wrench flat 32 mm						
	3050	10"	-	39	1 ½ "	EX38-3838-0037
	3660	12"	-	39	1 ½ "	EX38-3838-0038
Light extension rod, T38 – Hex 32 – T38, Flushing hole Ø 9.6 mm.						
	3050	10"	-	32	1 ¼ "	DR32-3838-0039
Coupling sleeve T38						
	191	-	7 ½ "	55	2 5/32 "	CST38-054-0004






BENCH DRILLING

T45 (1 3/4")

BITS	FLUSHING HOLE, MM		BUTTONS, mm		ANGLE	DIMENSIONS		PART NO.
	front No Size	Gauge No Size	Front No Size	Gauge No Size		mm	In	
Button Bit, regular skirt								
	4x8	-	5x10	8x11	30°	70	2 ¾"	TH08-7058S-0070
	4x8	-	5x11	8x12	35°	76	3"	TH08-7658B-0071
	4x8	-	5x11	8x12	35°	76	3"	TH08-7658S-0072
	4x9	-	5x12	8x13	40°	89	3 ½"	TH08-8958B-0073
	4x9	-	5x12	8x13	35°	89	3 ½"	TH08-8958S-0074
	3x10	-	9x11	9x13	40°	102	4"	TH08-10299B-0075
	3x10	-	9x11	9x13	35°	102	4"	TH08-10299S-0076
	3x12	1x7.5	6x10	8x11	35°	76	3"	TH08-7668S-0077
	3x10	1x7.5	6x10	9x11	35°	89	3 ½"	TH08-8969S-0078
	3x9	1x9	1x11 3x11	6x12	40°	76	3"	TH08-7616C-0079
	3x10	1x10	2x11 3x12	6x13	40°	89	3 ½"	TH08-8926C-0080

Button bit, Retrac

BITS	FLUSHING HOLE, MM		BUTTONS, mm		ANGLE	DIMENSIONS		PART NO.
	front No Size	Gauge No Size	Front No Size	Gauge No Size		mm	In	
Button Bit, regular skirt								
	4x8	-	5x10	8x11	30°	70	2 ¾"	TH08-7058B-0081
	4x8	-	5x11	8x12	35°	76	3"	TH08-7658B-0082
	4x8	-	5x11	8x12	35°	76	3"	TH08-7658S-0083
	4x9	-	5x12	8x13	40°	89	3 ½"	TH08-8958B-0084
	4x9	-	5x12	8x13	35°	89	3 ½"	TH08-8958S-0085
	3x10	-	9x11	9x13	40°	102	4"	TH08-10299B-0086
	3x10	-	9x11	9x13	35°	102	4"	TH08-10299S-0087
	3x9	1x9	4x11 3x11	6x12	40	76	3"	TH08-7646C-0088
	3x10	1x10	5x11 3x13	6x13	40	89	3 ½"	TH08-8956C-0089



BENCH DRILLING

T45 (1 3/4")

BITS	FLUSHING HOLE, MM		BUTTONS, MM		ANGLE	DIMENSIONS		PART NO.
	front No Size	Gauge No Size	Front No Size	Gauge No Size		mm	In	
Button Bit, regular skirt								
	2x11	1x6	6x10	8x11	35°	76	3"	TH08-7668S-0090
	3x10	1x6	6x11	9x11	35°	89	3 1/2"	TH08-8969S-0091
	4x8	-	6x10	8x11	35°	76	3"	TH08-7668B-0092
	4x7	-	6x10	8x11	30°	76	3"	TH08-7668S-0093
	4x8	-	6x11	8x12	40°	89	3 1/2"	TH08-8968B-0094
	4x8	-	6x11	8x12	35°	89	3 1/2"	TH08-8968S-0095
	4x9	-	7x11	8x13	35°	102	4"	TH08-10278S-0096
	4x9	-	4x12					
	4x8	-	6x10	8x11	35°	76	3'	TH08-7668B-0097





T45 (1 3/4")

RODS	DIMENSIONS					PART NO.
	L mm	ft	in	D mm	in	
MF-rod, T45 – round 46 – T45, Flushing hole Ø 17 mm. Female end Ø 63 mm.						
	1220	4"	-	46	1 3/4"	MF46-4545-0040
	1525	5"	-	46	1 3/4"	MF46-4545-0041
	1830	6"	-	46	1 3/4"	MF46-4545-0042
	3050	10"	-	46	1 1/2 "	MF46-4545-0043
	3050	10"	-	46	1 1/2 "	MF46-4545-0044
	3660	12"	-	46	1 1/2 "	MF46-4545-0045
	3660	12"	-	46	1 1/2 "	MF46-4545-0046
	4265	14"	-	46	1 1/2 "	MF46-4545-0047
	4265	14"	-	46	1 1/2 "	MF46-4545-0048
Extension rod, T45 – round 46 – T45, Flushing hole Ø 17 mm						
	3050	10"	-	46	1 3/4"	EX46-3838-0049
	3660	12"	-	46	1 3/4"	EX46-3838-0050
	4265	14"	-	46	1 3/4"	EX46-3838-0051
Coupling sleeve T45						
	210	-	8 1/8"	63	2 31/64"	CST45-063-0005








BENCH DRILLING

T51 (2")

BITS	FLUSHING HOLE, MM		BUTTONS, mm		ANGLE	DIMENSION		PART NO.
	front No Size	Gauge No Size	Front No Size	Gauge No Size		mm	In	
Button Bit, regular skirt								
	4x10	-	5x12	8x13	40°	89	3 ½"	TH09-8958B-0098
	4x10	-	5x12	9x13	35°	89	3 ½"	TH09-8959S-0099
	3x13	-	9x11	9x13	40°	102	4"	TH09-10299B-0100
	3x13	-	9x11	9x13	35°	102	4"	TH09-10299S-0101
	3x13	-	10x12	9x14	35°	115	4 ½"	TH09-115109S-0102
	3x14	-	10x13	9x14	35°	127	5"	TH09-127109S-0103
	3x12	1x8	6x12	9x11	35°	89	4 ½"	TH09-8969S-0104
	3x12	1x8	6x12	9x12	35°	102	4"	TH09-10269S-0105
	3x12	1x12	5x11 3x12	6x13	40°	89	3 ½"	TH09-8956C-0106
	4x11	1x11	7x11 4x12	8x13	40°	102	4"	TH09-10278C-0107

Button bit, Retrace

	4x10	-	5x12	8x13	40°	89	3 ½"	TH09-8958B-0108
	4x10	-	5x12	9x13	35°	89	3 ½"	TH09-8959S-0109
	3x13	-	9x11	9x13	40°	102	4"	TH09-10299B-0110
	3x13	-	9x11	9x13	35°	102	4"	TH09-10299S-0111
	3x13	-	10x12	9x14	40°	115	4 ½"	TH09-115109B-0112
	3x14	-	10x12	9x14	35°	115	4 ½"	TH09-115109S-0113
	3x14	-	10x13	9x14	35°	127	5"	TH09-127109S-0114
	3x12	1x12	4x11 3x12	6x13	40°	89	3 ½"	TH09-8946C-0115
	3x11	1x11	7x11 4x12	8x13	40°	102	4"	TH09-10278C-0116
	3x12	1x8	6x10	9x11	35°	89	3 ½"	TH09-8969S-0117
	4x10	-	6x11	8x12	40°	89	3 ½"	TH09-8968B-0118
	4x10	-	6x11	8x12	35°	89	3 ½"	TH09-8968S-0119
	4x11	-	7x12	8x13	35°	102	4"	TH09-10278S-0120
	4x11	-	7x11 4x12	8x13	35°	102	4"	TH09-10278B-0121
	4x10	-	7x12 4x13	8x14	35°	102	4"	TH09-10278S-0122



BENCH DRILLING

T51 (2")

RODS	DIMENSIONS					PART NO.
	L mm	ft	in	D mm	in	
MF-rod, T45 – round 46 – T45, Flushing hole Ø 17 mm. Female end Ø 63 mm.						
	3660	12"	-	52	2"	MF52-4545-0052
	3660	12"	-	52	2"	MF52-4545-0053
	4265	14"	-	52	2"	MF52-4545-0054
	4265	14"	-	52	2"	MF52-4545-0055
	5485	17"	11	52	2"	MF52-4545-0056
	6095	20"	-	52	2"	MF52-4545-0057
Extension rod, T51 – round 52 – T51, Flushing hole Ø 21.5 mm.						
	3660	12"	-	52	2"	EX52-5151-0058
	4265	14"	-	52	2"	EX52-5151-0059
	6095	20"	-	52	2"	EX52-5151-0060
Coupling sleeve T51						
	225	-	8 7/8"	71	2 54/64"	CST51-071-0006
	225	-	8 7/8"	76	3"	CST51-076-0007



BENCH DRILLING

SVE 60

BITS	FLUSHING HOLE, MM		BUTTONS, mm		ANGLE	DIMENSIONS		PART NO.
	front No Size	Gauge No Size	Front No Size	Gauge No Size		mm	In	
Button Bit, regular skirt								
	4x11	-	6x12	8x14	35°	92	3 5/8"	TH11-9268S-0123
	4x12	-	6x12	9x14	35°	96	3 3/4"	TH11-9669S-0122
	3x13	-	9x11	9x14	35°	102	4"	TH11-10299S-0123
	3x14	-	10x12	9x14	40°	115	4 1/2"	TH11-115109B-0124
	3x14	-	10x12	9x14	35°	115	4 1/2"	TH11-115109S-0125
	3x14	-	10x13	9x16	35°	127	5"	TH11-127109S-0126
	3x14	-	10x14	9x16	35°	140	5 1/2"	TH11-140109S-0127
	3x15	-	12x14	9x16	35°	152	6"	TH11-152129S-0128

Button bit, Retrac

	3x13	-	9x11	9x14	35°	102	4"	TH11-10299S-0129
	3x14	-	10x12	9x14	40°	115	4 1/2"	TH11-115109B-0130
	3x14	-	10x12	9x14	35°	115	4 1/2"	TH11-115109S-0131
	3x14	-	10x13	9x16	35°	127	5"	TH11-127109S-0132
	3x14	-	10x14	9x16	35°	140	5 1/2"	TH11-140109S-0133
	3x15	-	12x14	9x16	35°	152	6"	TH11-152129S-0134
	4x11	-	7x11 4x12	8x13	35°	102	4"	TH11-10278S-0135
	4x11	-	7x12 4x14	8x14	35°	115	4 1/2"	TH11-11578S-0136
	4x11	-	7x13 4x14	8x14	35°	127	5"	TH11-12778S-0137
	4x12	-	8x14 4x16	8x16	35°	140	5 1/2"	TH11-14088S-0138
	4x12	-	9x14 4x16	8x16	35°	152	6"	TH11-15298S-0139
	2x14		9x12	9x12	40°	92	3 5/8"	TH11-9299B-0140
	2x14		9x12	9x12	35°	92	3 5/8"	TH11-9299S-0141
	2x14		10x12	9x13	40°	96	3 3/4"	TH11-96109B-0142
	2x14		10x12	9x13	35°	96	3 3/4"	TH11-96109S-0143
	2x14		10x12	9x13	40°	102	4"	TH11-102109B-0144



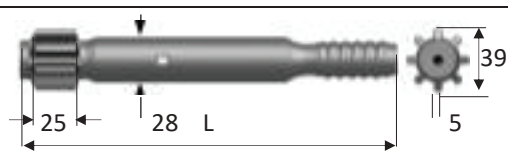






SHANK RODS

HEXAGONAL SHANK RODS

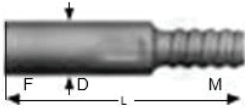
	FLUSING TUBE (MM)	THREAD	LENGTH (MM)	PART NO.
For hexagonal bushing 22 × 108 mm				
	4.5-5.0	R22	255	SR22-0022-0061
	4.5-5.0	R23	255	SR22-0023-0062
	4.5-5.0	R25	255	SR22-0025-0063
For hexagonal bushing 25 × 108 mm				
	4.5-5.0	R23	255	SR25-0023-0064
	4.5-5.0	R25	255	SR25-0025-0065
For hexagonal bushing 25 × 159 mm				
	8	R25	255	SR25-0025-0066


SHANK ADAPTERS

SANDVIK

HLX 1	APPLICATION	FLUSHING HOLE(MM)	THREAD	LENGTH (MM)	PART NO
	TU, BO	-	R23	235	SA28-0023-0067
	TU, BO	-	R23	255	SA28-0023-0068
	TU, BO	-	R25	255	SA28-0025-0069
	TU, BO	-	R28	255	SA28-0028-0070
HL 500-45 / HL510-45					
	BE	-	R32	550	SA45-0032-0070
	BE	-	T38	550	SA45-0038-0072
	BE	-	T45	550	SA45-0045-0073
HL 500 S-38 / 510 S-38 / 510 B / 510 LH					
	PD, TU	-	R32	460	SA38-0032-0074
	TU	-	R38	460	SA38-0038-0075
	PD, TU	-	T38	460	SA38-0038-0076
	TU	-	R38	500	SA38-0038-0077
	PD, TU	-	T38	500	SA38-0039-0078
HLX 5 / HLX 5T					
	TU	-	R32	500	SA45-0032-0079
	TU	-	T35	500	SA45-0035-0080
	TU	-	T38	500	SA45-0038-0081
	TU	-	R38	500	SA45-0038-0082
	BE	-	R32	575	SA45-0032-0083
	BE	-	T35	575	SA45-0035-0084
	BE	-	T38	575	SA45-0038-0085
	BE	-	T45	575	SA45-0045-0086
HLX 5T					
	TU	-	T35	720	SA45-0035-0087
	TU	-	T38	720	SA45-0038-0088
HLX5 PE-45					
	TU	-	R32	575	SA45-0032-0089
	TU	-	T38	575	SA45-0038-0090
	TU	-	T35	720	SA45-0035-0091
	TU	-	T38	720	SA45-0038-0092
HL700/HL710-45/HL800T-45/HL810T-45/HF810T-45/HL650-45					
	BE	-	T38	600	SA45-0038-0093
	BE	-	T45	600	SA45-0045-0094

ACCESSORIES


BIT ADAPTERS	WRENCH FLAT	THREADS		DIMENSIONS				PART NO
	(mm)	F (female)	M (male)	L (mm)	L (in)	D (mm)	D (in)	
	38	R25	R32	173	6 13/16 "	45	1 3/4 "	BA45-2532-0001
	38	R28	R32	230	9 1/16 "	40	1 37/64 "	BA40-2832-0002
	38	R32	R38	225	8 55/64 "	45	1 49/64 "	BA45-3238-0003
	38	R32	T38	225	8 55/64 "	45	1 49/64 "	BA45-3238-0004
	38	T35	T38	250	9 27/32 "	48	1 7/8 "	BA48-3538-0005
	44.5	R38	T38	245	9 27/32 "	55	2 5/32 "	BA55-3838-0006
	44.5	T38	R32	270	10 41/64 "	57	2 1/4 "	BA57-3832-0007
	44.5	T38	T45	285	11 7/32 "	57	2 1/4 "	BA57-3845-0008
	38	T45	T38	265	10 7/16 "	63	2 31/64 "	BA63-4538-0009
	44.5	T45	T51	285	11 7/32 "	63	2 31/64 "	BA63-4551-0010
	44.5	T51	T45	285	11 7/32 "	71	2 31/64 "	BA71-5145-0011

REDUCTION COUPLINGS	THREADS		DIMENSIONS				PART NO
	F1	F2	L(mm)	L(in)	D(mm)	D(in)	
	R32	R28	165	6 1/2 "	44	1 47/34 "	CS3228-044-0008
	R32	R25	160	6 1/4 "	43	1 11/16 "	CS3225-043-0009
	R38	R32	170	6 3/4 "	55	2 5/32 "	CS3832-055-0010
	T38	R32	195	7 11/16 "	55	2 5/32 "	CS3832-055-0011
	T38	R38	183	7 9/32 "	55	2 5/32 "	CS3836-055-0012
	T38	T45	180	-	58	2 9/32 "	CS3845-058-0013
	T38	T45	180	8 43/64 "	61	2 13/32 "	CS3845-061-0014
	T51	T45	218	8 19/32 "	71	2 51/64 "	CS5145-071-0015



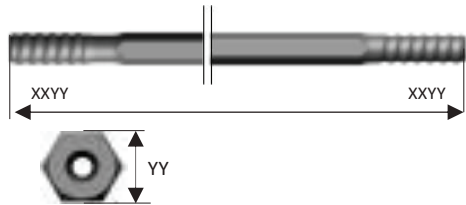
CODE KEY FOR EXTENSION RODS

EX-YY-XXYY-YYZZ	
EX	EXTENSION ROD
YY	CROSS SECTION
XXYY	THREADS TYPES AT BOTH ENDS
YYZZ	SERIAL NUMBER



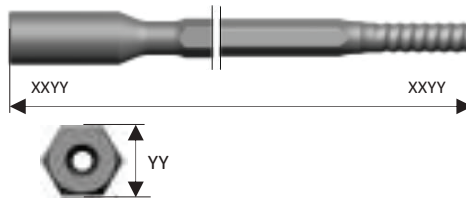
CODE KEY FOR DRIFTER RODS

DR-YY-XXYY-YYZZ	
DR	DRIFTER ROD
YY	CROSS SECTION
XXYY	THREADS TYPES AT BOTH ENDS
YYZZ	SERIAL NUMBER



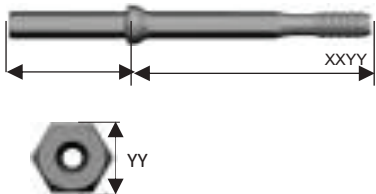
CODE KEY FOR MF RODS

MF-YY-XXYY-YYZZ	
MF	MF
YY	CROSS SECTION
XXYY	THREADS TYPES AT BOTH ENDS
YYZZ	SERIAL NUMBER




CODE KEY FOR SHANK RODS

SR-YY-XXYY-YYZZ	
SR	SHANK RODS
YY	CROSS SECTION
XXYY	THREADS TYPE
YYZZ	SERIAL NUMBER



CODE KEY FOR SHANK ADAPTERS

SA-YY-XXYY-YYZZ	
SA	SHANK ADAPTERS
YY	CROSS SECTION
XXYY	THREADS TYPE
YYZZ	SERIAL NUMBER





CODE KEY FOR COUPLINGS AND REDUCTION COUPLINGS

CSXXXX-YY-XXYY		
CSXXXX	COUPLING SLEEVES, THREAD TYPE	
YY	DIAMETER	
XXYY	SERIAL NUMBER	

CODE KEY FOR THREAD TYPES AND BUTTON TYPES

R SERIES	
R22	01
R25	02
R28	03
R32	04
R38	05
R23	06

T SERIES	
T38	07
T45	08
T51	09
T35	10
SVE60	11

B	Ballistic Button
S	Spherical Button
C	Conical Button

CODE KEY FOR DRIFTER BITS

THXX- XXYYZ-YYZZ		
THXX	TOP HAMMER AND THREAD TYPE	
XXYY	DIAMETER (XX), FACE AND GAUGE BUTTONS (YY)	
Z	BUTTON TYPE	
YYZZ	SERIAL NUMBER	

CODE KEY FOR BIG THREADED BITS

THXX- XXYYZ-YYZZ		
THXX	TOP HAMMER AND THREAD TYPE	
XXYY	DIAMETER (XX), FACE AND GAUGE BUTTONS(YY)	
Z	BUTTON TYPE	
YYZZ	SERIAL NUMBER	

CODE KEY FOR BIT ADAPTERS

BAXX-FM-YYZZ		
BA	BIT ADAPTERS	
XX	DIAMETER	
FM	FEMALE AND MALE THREADS	
YYZZ	SERIAL NUMBER	



CARE & MAINTENANCE

Our top hammer tools and accessories are designed for outstanding service life. With proper care, they will still be going long after others have given up

DRILLING TECHNIQUES

COLLARING TECHNIQUE

- Press the boom against the rock
- Start with reduced percussion
- Flush hole generously
- Increase percussion and feed force when the bit has a good foothold in the rock

BIT UNCOUPLING TECHNIQUE

- Stop rotation
- Keep flushing to cool the bit
- Run percussion for a few seconds
- Use feed forward and backward to hit the bit against the bottom of the hole

DRILLING PARAMETERS

FEED FORCE

- Too low feed force results in slow penetration speed
- Drilling with loose joints stresses the drill string
- Energy not transmitted to the rock is converted to heat, causing damage to couplings and threads
- Too high feed force bends drill rods, resulting in stress and severe hole deviation

BIT ROTATION SPEED

- Rotation speed must suit drill bit diameter, percussion frequency and type of rock
- Too high rotation speed wears out the cemented carbide

ADAPTION TO VARYING ROCK CONDITIONS

- Adapt impact energy and feed force to rock formation
- Less energy and force in soft rock
- Modern drill rigs have built-in systems for automatic adjustment



GRINDING

Grinding is important for service life of bits, hole quality and total economy. Make sure to grind:

- Well before flatness exceeds recommended limits
- When penetration rate starts dropping off
- Well before anti-taper develops above recommended limits
- When hole deviation increases
- Before snakeskin appears in the cemented carbide surface

TRANSPORTATION AND STORAGE

ROD CARE

- Avoid surface damages or corrosion
- Both are initiation points for fatigue cracks
- Good order will prevent unnecessary damages

BIT CARE

- Cemented carbide can be easily destroyed if carbide buttons clash against each other
- Good order will prevent unnecessary damages.



TROUBLE SHOOTING GUIDE

Some of the most common problems encountered in top hammer drilling relate to high pressure percussion, feed force and rotation. Here is the checklist as a starting point for troubleshooting.

<p>SYMPTOM:</p> <ul style="list-style-type: none"> • Short drill steel lifetime • Early wear of threads • Damage to the internal hammer components 	<p>POSSIBLE CAUSE:</p> <p>Percussion pressure too high</p>
<p>SYMPTOM:</p> <ul style="list-style-type: none"> • Fatigue/breakage of rods due to bending • Excessive wear of centralizers • Hole deviation • Hard to uncouple the threads 	<p>POSSIBLE CAUSE:</p> <p>Feed pressure too high</p>
<p>SYMPTOM:</p> <ul style="list-style-type: none"> • Fatigue and damage of rods, bits and shank adapter • Drilling with open threads, which wears threads • Temperature increase in couplings 	<p>POSSIBLE CAUSE:</p> <p>Feed pressure too low</p>
<p>SYMPTOM:</p> <ul style="list-style-type: none"> • Premature wear on the buttons • Vibration in the boom 	<p>POSSIBLE CAUSE:</p> <p>Rotation speed too high</p>
<p>SYMPTOM:</p> <ul style="list-style-type: none"> • Reduced penetration rate • Increased wear of buttons due to re-crushing of rock • Anti-jamming system starting 	<p>POSSIBLE CAUSE:</p> <p>Rotation speed too low</p>



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