



HENAN KINGS ROCK TOOLS CO.,LTD.

**PRODUCE PREMIUM HOLLOW DRILL STEEL
CREATE TOP BRAND OF ROCK DRILLING TOOLS**



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WELCOME TO OUR COMPANY



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> COMPANY PROFILE

Henan Kings Rock Tools Co., Ltd. is a modern high-tech enterprise specializing in the research and manufacturing of hollow drill steel and top hammer drilling tools. The products are mainly used in mining, quarrying, tunnel, construction and related industries.

Original founded in 1977, located in Zhoukou City, Henan, China, factory area about 100,000 m³, 300 staff. It has 2 sets of drill steel rolling production lines, physical and chemical laboratory of the product quality control center, product research and development center, CNC lines, automatic bits production line, carburizing and normalizing heat treatment lines, etc. The annual capacity is about 50,000 tons of drill steel and more than 300,000 pcs drill rods and shank adapters, 3 million pcs drill bits.

Kings Rock Tools has become an important part of the supply chain of rock drilling tools in the whole industry. It adheres to the unremitting pursuit of product quality, and through continuous technological progress, ensures that product quality is at the forefront of the industry. At the same time, we strive to provide customers with more economical and efficient rock drilling tool solutions.



■ VISION

Produce premier hollow drill steel, create top brand of rock tools

■ CULTURE

Let's make a great company together

■ MISSION

Build an international advanced rock drilling tools production base

■ BUSINESS PHILOSOPHY

Market-oriented, Customer-centered.

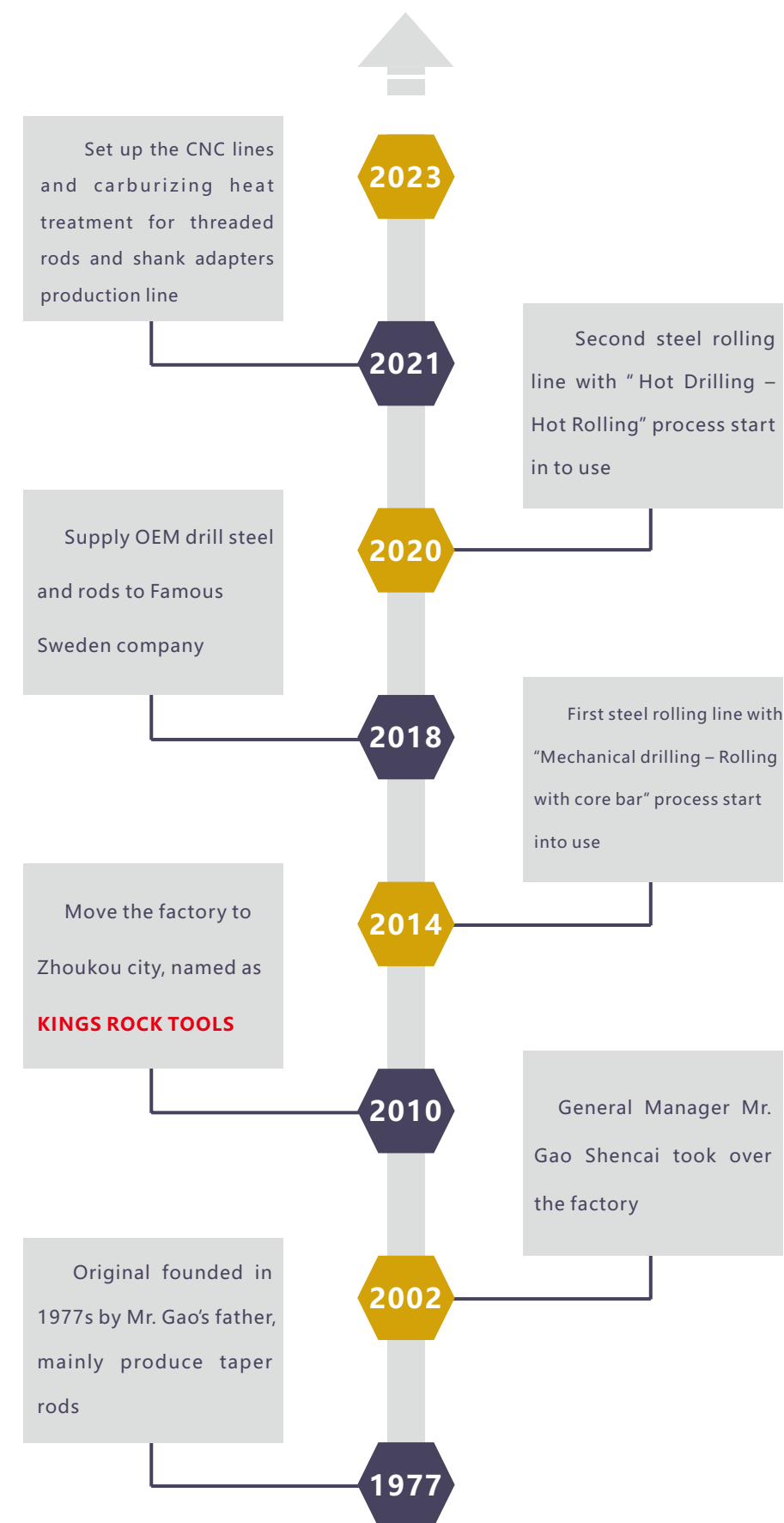
■ COREVALUE

Favor staffs, benefit clients, society responsible

■ OPERATION GUIDE

Full participation, strengthen management, keep improving the product quality

> OUR STORY



COMPANY AWARD



High Technology Enterprises



SRDI Minor Enterprise



Provincial Enterprise Technology R&D Center



ISO9001
Quality System
Certification



ISO14001
Environmental System
Certification



ISO45110
Occupational Health
Certification



Invention Patent



Invention Patent

OUR CAPABILITIES AND ADVANTAGES

QUALITY

Strict quality inspection in every process during production

EXPERIENCE

Many employees have been with Kings for over 10 years

INNOVATION

Many experts research new materials for a longer service life

FAST DELIVERY

Lots of raw material in stock, short delivery time

PROFESSIONAL

Focused on drill steel and drill rods for over 45 years

EXCELENTE SERVICIO

Nunca eludir la responsabilidad, ayudar a los clientes a resolver el problema en el lugar de trabajo.

PRECISION

Market leading precision tolerance

RAW MATERIAL

only choose superior quality steel suppliers

QUALITY ASSURANCE
TEST METHODS

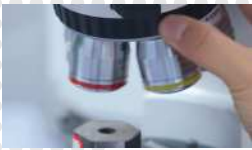
HARDNESS ANALYSER



CARBON & AULPHUR ANALYSE



METALLOGRAPHIC ANALYSIS



PROFILOMETER



RAW MATERIAL INSPECTION



QUALITY INSPECTION



QUALITY PROBLEM ANALYSIS



NEW PRODUCT RESEARCH

MEDICIONES DE CALIDAD

- Quality measurements
- Hardness testing
- Carbide phase measurement
- Sulphide phase measurement
- Case hardening depth measurement
- Tensile / pressure testing
- Density measurement
- Carbon analytics
- MPolished CT specimens
- Thread contour measurement

➤ HOLLOW DRILL STEEL PRODUCTION LINE

STEEL ROLLING DIVISION: WORKSHOP (1)
PROSPECTING METHOD: Mechanical piercing - Rolling with coring bar



STEEL ROLLING DIVISION: WORKSHOP (2)
PROSPECTING METHOD: Hot Punching - Hot Rolling

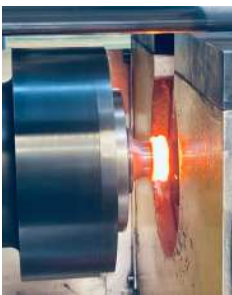


➤ TOP HAMMER ROCK DRILLING TOOLS DIVISON

Tapered drilling tools workshop

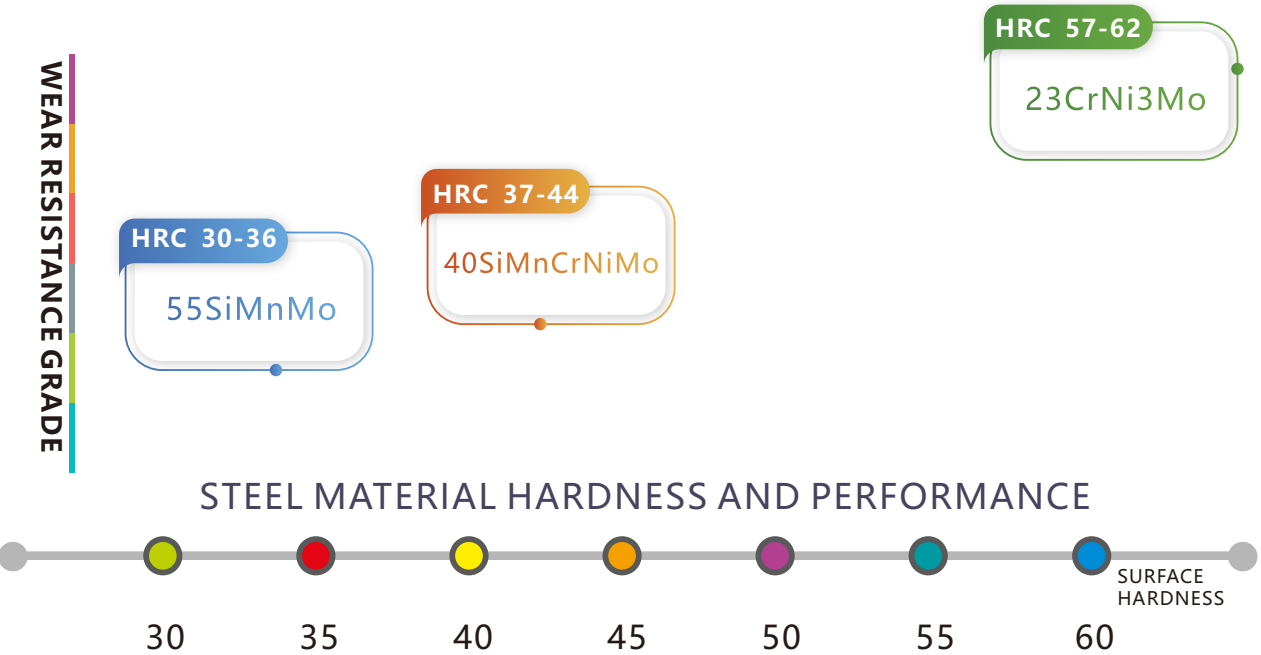


Thread drilling tools workshop



➤ MATERIAL OF TOP HAMMER ROCK DRILLING TOOLS

Hollow rock drill steel is the main semi-product of the rock drilling rods, coupling and shank adapters, mainly has Hex and round type. Kings Rock Tools as the main supplier of drill steel to the top hammer rock drilling tools industrial, has 2 sets of steel rolling production lines with “Mechanical drilling – Rolling with core bar” and “Hot Drilling – Hot Rolling” technology process.



HOLLOW DRILL STEEL

Hex Series	Model	Diameter	Hole Dia.	Weight
		mm	mm	kg/m
	H19	19	6	2.21
	H22	22.2	6.7	3.05
	H25	25.3	7.6	3.97
	H28	28.6	8.9	5.05
	H32	32	9.5	6.36
	H35	35	9.5	7.86

Round Series	Model	Diameter	Hole Dia.	Weight
		mm	mm	kg/m
	R32	32.2	9.3	5.83
	R39	39	14.5	8.02
	R46	45.8	17	11.07
	R52	52	21.5	13.72
	R56	56	35	11.79
	R60	60	36	14.23



Handheld Drilling Tools

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H22 (7/8") Tapered Drilling Tools, 7°

12

H22 (7/8") Tapered Drilling Tools, 11°

15

H22(7/8") Tapered Drilling Tools, 12°

17

R22(7/8") Extention Drilling Tools

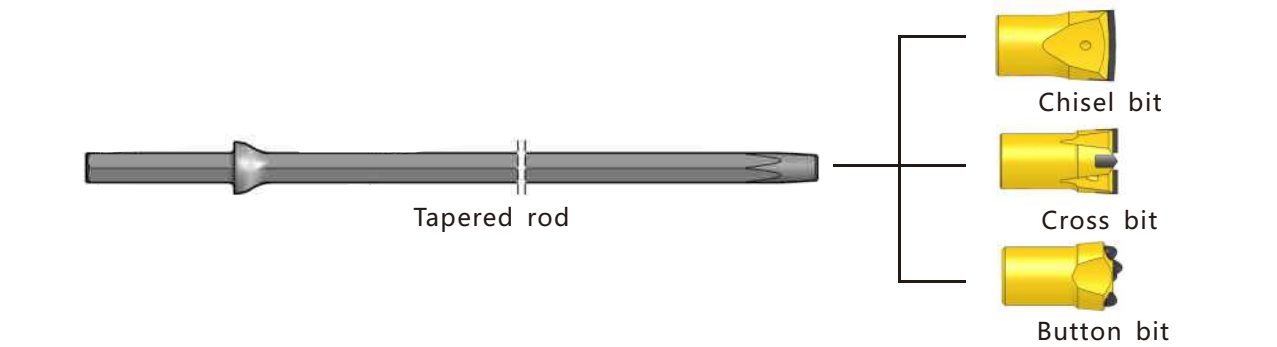
19

R25(1") Extention Drilling Tools

20

Handheld Drilling Tools

H22(7/8") TAPERED DRILLING TOOLS, 7°



Chisel bit(Horseshoe type)								
Diameter	Diameter		Diameter of carbide, mm		Flushing hole		Weight kg	Part NO.
	mm	in	Height	Width	Front	Gauge		
	32	1 1/4"	13.5	8	-	2	0.22	KCBH-32H227-13/8
	32	1 1/4"	15	8	-	2	0.22	KCBH-32H227-15/8
	34	1 11/32"	13.5	8	-	2	0.26	KCBH-34H227-13/8
	34	1 11/32"	15	8	-	2	0.26	KCBH-34H227-15/8
	36	1 7/16"	13.5	8	-	2	0.29	KCBH-36H227-13/8
	36	1 7/16"	15	8	-	2	0.29	KCBH-36H227-15/8
	38	1 1/2"	13.5	8	-	2	0.32	KCBH-38H227-13/8
	38	1 1/2"	15	10	-	2	0.32	KCBH-38H227-15/10
	38	1 1/2"	17	10	-	2	0.39	KCBH-38H227-17/10
	40	1 37/64"	13.5	9.2	-	2	0.37	KCBH-40H227-13/9
	40	1 37/64"	15	9.8	-	2	0.37	KCBH-40H227-15/10
	40	1 37/64"	17	9.8	-	2	0.37	KCBH-40H227-17/10
	42	1 21/32"	13.5	9.2	-	2	0.41	KCBH-42H227-13/9
	42	1 21/32"	15	9.8	-	2	0.41	KCBH-42H227-15/10
	42	1 21/32"	17	9.8	-	2	0.41	KCBH-42H227-17/10
	43	1 5/8"	13.5	9.2	-	2	0.46	KCBH-43H227-13/9
	43	1 5/8"	15	9.8	-	2	0.46	KCBH-43H227-15/10
	43	1 5/8"	17	9.8	-	2	0.49	KCBH-43H227-17/10

Chisel bit(Oblique-chipways)								
	30	1 3/16"	13.5	8	-	2	0.21	KCBO-30H227-13/8
	32	1 1/4"	13.5	8	-	2	0.22	KCBO-32H227-13/8
	34	1 11/32"	13.5	8	-	2	0.26	KCBO-34H227-13/8
	36	1 7/16"	13.5	8	-	2	0.29	KCBO-36H227-13/8
	38	1 1/2"	15	9	-	2	0.33	KCBO-38H227-15/9
	40	1 37/64"	15	9.8	-	2	0.37	KCBO-40H227-15/10
	42	1 21/32"	15	9.8	-	2	0.41	KCBO-42H227-15/10

Handheld Drilling Tools

H22(7/8") TAPERED DRILLING TOOLS, 7°

Chisel bit(Flat-chipways)								
Drill Bits	Diameter		Diameter of carbide, mm		Flushing hole		Weight kg	Part NO.
	mm	in	Height	Width	Front	Gauge		
	45	1 3/4"	16	10	1	2	0.56	KCBF-45H227-16/10
	50	1 31/32"	16	10	1	2	0.61	KCBF-50H227-16/10
	55	1 1/4"	16	10	1	2	0.75	KCBF-55H227-16/10
	60	2 23/64"	16	10	1	2	0.86	KCBF-60H227-16/10

Cross bit								
	32	1 1/4"	12	8	1	2	0.26	KCB-32H227-12/8
	34	1 11/32"	12	8	1	2	0.29	KCB-34H227-12/8
	36	1 7/16"	12	8	1	2	0.32	KCB-36H227-12/8
	38	1 1/2"	12	8	1	2	0.37	KCB-38H227-12/8
	40	1 37/64"	12	8	1	2	0.4	KCB-40H227-12/8
	42	1 21/32"	12	8	1	2	0.43	KCB-42H227-12/8
	45	1 3/4"	14	8	1	2	0.49	KCB-45H227-14/8
	50	1 31/32"	14	8	1	2	0.62	KCB-50H227-14/8
	55	2 1/4"	16	10	1	2	0.82	KCB-55H227-16/10

Button bit(Long skirt)								
Drill Bits	Diameter		Buttons,mm		Angle	Flushing hole		Part NO.
	mm	in	Front NO x Size	Gauge NO x Size		Front	Gauge	
	32	2 1/4"	1x8	3x8	35°	1	1	KTB-32H227-18/38
	34	2 1/5"	1x8	3x8	35°	1	1	KTB-34H227-18/38
	36	2 1/6"	1x8	3x9	35°	1	1	KTB-36H227-18/39
	38	2 1/7"	1x8	3x9	35°	1	1	KTB-38H227-18/39
	40	2 1/8"	1x8	3x9	30°	1	1	KTB-40H227-18/39
	40	2 1/9"	1x9	3x9	35°	1	1	KTB-40H227-19/39
	42	2 1/10"	1x8	3x9	30°	1	1	KTB-42H227-18/39
	42	2 1/11"	1x9	3x9	35°	1	1	KTB-42H227-19/39

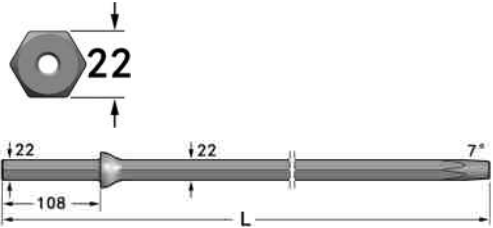
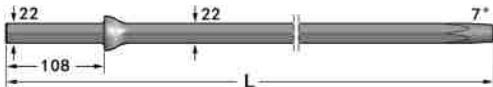
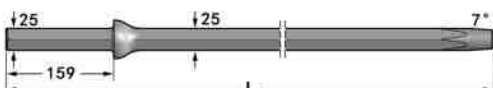
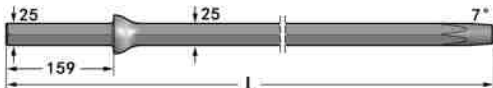
Button bit(Long skirt)								
	32	2 1/4"	2x7	5x7	35°	2	1	KTB-32H227-27/57
	34	2 1/5"	2x7	5x7	35°	2	1	KTB-34H227-27/57
	36	2 1/6"	2x7	5x8	35°	2	1	KTB-36H227-27/58
	38	2 1/7"	2x7	5x8	35°	2	1	KTB-38H227-27/58
	38	2 1/8"	2x7	5x9	30°	2	1	KTB-38H227-27/59
	40	2 1/9"	2x7	5x9	35°	2	1	KTB-40H227-27/59
	41	2 1/10"	2x8	5x9	30°	2	1	KTB-41H227-28/59

Button bit(Long skirt)								
	41	1 5/8"	2x8	5x9	35°	2	1	KTB-41H257-28/59
	43	1 11/16"	2x8	5x9	35°	2	1	KTB-43H257-28/59
	45	1 3/4"	2x8	5x9	35°	2	1	KTB-45H257-28/59
	51	1 31/32"	2x9	5x10	35°	2	1	KTB-51H257-29/510

Handheld Drilling Tools

HANDHELD DRILLING TOOLS

H22(7/8") TAPERED DRILLING TOOLS, 7°

Shank 22x108 mm (7/8"x4 1/4"),carburized				
Drill Bits	Length		Weight kg	Part NO.
	mm	ft/in		
	500	1'5/8"	1.5	KTR-108H227-500
	800	2'7 1/2"	2.4	KTR-108H227-800
	1000	3'3 3/8"	3.0	KTR-108H227-1000
	1200	3'11 1/4"	3.6	KTR-108H227-1200
	1500	4'11"	4.68	KTR-108H227-1500
	1800	5'10 7/8"	5.5	KTR-108H227-1800
	2000	6'7"	6.2	KTR-108H227-2000
	2200	7'2 5/8"	6.7	KTR-108H227-2200
	2500	8'2"	7.73	KTR-108H227-2500
	3000	9'10"	9.25	KTR-108H227-3000
	3500	11'5"	10.78	KTR-108H227-3500
	4000	13'1"	12.3	KTR-108H227-4000
	4500	14'8"	13.83	KTR-108H227-4500
	5000	16'4 5/8"	15.12	KTR-108H227-5000
	6000	19'8 1/4"	18.2	KTR-108H227-6000
	7000	22'11 5/8"	21.34	KTR-108H227-7000
	8000	26'3"	24.31	KTR-108H227-8000
Shank 22x83 mm (7/8" x 3 1/4"),carburized				
	1800	5'10 7/8"	5.5	KTR-83H227-1800
	2000	6'6 3/4"	6.1	KTR-83H227-2200
	2500	8'2 3/8"	7.6	KTR-83H227-2500
	3000	9'10 1/8"	9.1	KTR-83H227-3000
	3500	11'5 3/4"	10.6	KTR-83H227-3500
	4000	13'1 1/2"	12.1	KTR-83H227-4000
	5000	16'4 5/8"	15.1	KTR-83H227-5000
Shank 25x108 mm (1"x4 1/4"),carburized				
	1500	4'11"	5.9	KTR-108H257-1500
	1600	5'3"	6.3	KTR-108H257-1600
	1800	5'10 7/8"	7.1	KTR-108H257-1800
	2000	6'6 3/4"	7.9	KTR-108H257-2000
	2500	8'2 3/8"	9.9	KTR-108H257-2500
	3000	9'10 1/8"	11.9	KTR-108H257-3000
	4000	13'1 1/2"	15.9	KTR-108H257-4000
Shank 25x159 mm (1"x6 1/4"),carburized				
	4000	13'1"	16.65	KTR-159H257-4000
	4700	15'4"	18.9	KTR-159H257-4700
	5000	16'4"	22.1	KTR-159H257-5000
	5500	18'1"	22.1	KTR-159H257-5500

Handheld Drilling Tools

HANDHELD DRILLING TOOLS

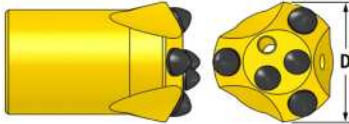
H22(7/8") TAPERED DRILLING TOOLS, 11°

Tapered rod

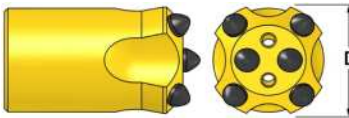
Button bit

Cross bit

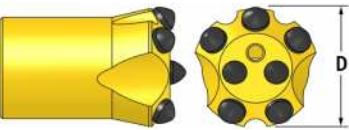
Button bit (Short skirt)

Drill Bits	Diameter		Buttons,mm		Angle	Flushing hole		Weight kg	Part NO.
	mm	in	Front NO x Size	Gauge NO x Size		Front	Gauge		
	32	1 1/4"	2x7	3x8	35°	1	2	0.24	KTB-32H2211-27/38
	34	1 11/32"	1x8	3x8	35°	1	1	0.26	KTB-34H2211-18/38
	36	1 7/16"	1x8	3x9	40°	1	1	0.29	KTB-36H2211-18/39
	38	1 1/2"	2x8	3x9	40°	1	1	0.32	KTB-38H2211-28/39
	40	1 37/64"	2x8	3x9	40°	1	1	0.36	KTB-40H2211-28/39

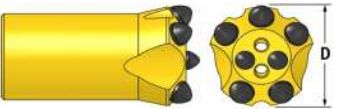
Button bit (Short skirt)

	32	1 1/4"	2x7	4x7	35°	1	1	0.24	KTB-32H2211-27/47-S
	34	1 11/32"	2x7	4x7	35°	2	1	0.29	KTB-34H2211-27/47-S
	36	1 7/16"	2x7	4x8	35°	2	1	0.32	KTB-36H2211-27/48-S

Button bit (Short skirt)

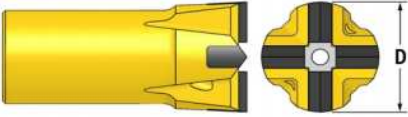
	32	1 1/4"	2x7	5x7	40°	1	1	0.24	KTB-32H2211-27/57-S
	34	1 11/32"	2x7	5x7	35°	1	1	0.29	KTB-34H2211-27/57-S
	36	1 7/16"	2x7	5x8	35°	1	1	0.32	KTB-36H2211-27/58-S
	38	1 1/2"	2x7	5x8	35°	1	1	0.34	KTB-38H2211-27/58-S
	38	1 1/2"	2x7	5x9	40°	1	1	0.34	KTB-38H2211-27/59-S
	40	1 37/64"	2x7	5x9	35°	1	1	0.39	KTB-40H2211-27/59-S
	41	1 5/8"	2x8	5x9	35°	1	1	0.39	KTB-41H2211-28/59-S

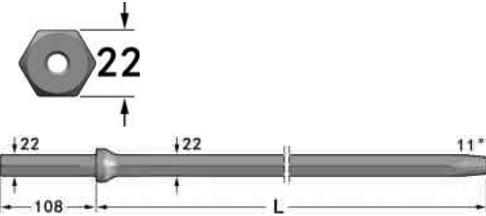
Button bit (Short skirt)

	32	1 1/4"	2x7	5x7	35°	1	1	0.3	KTB-32H2211-27/57-S
	33	1 19/64"	2x7	5x7	35°	1	1	0.31	KTB-33H2211-27/57-S
	33	1 19/64"	2x7	6x7	40°	2	1	0.32	KTB-33H2211-27/67-S
	35	1 3/8"	2x7	6x7	40°	2	1	0.34	KTB-35H2211-27/67-S
	38	1 1/2"	2x7	5x9	35°	1	1	0.41	KTB-38H2211-27/59-S
	41	1 5/8"	2x7	5x9	35°	1	1	0.42	KTB-41H2211-27/59-S

Handheld Drilling Tools

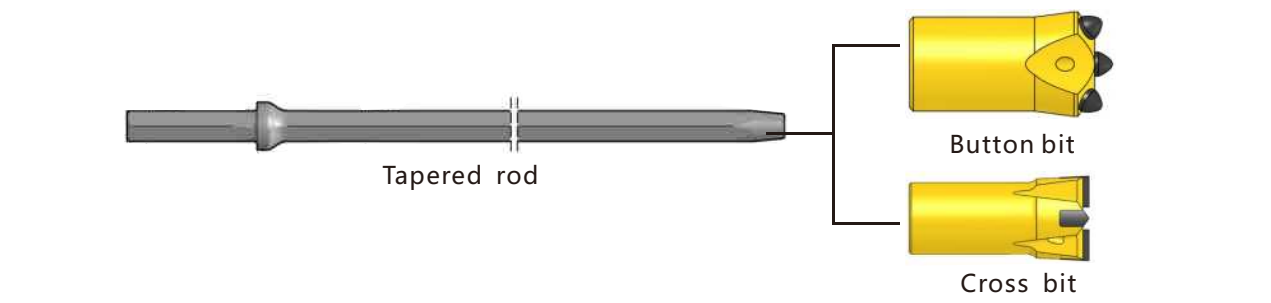
H22(7/8") TAPERED DRILLING TOOLS, 11°

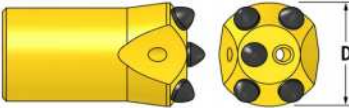
Cross bit (Long skirt)									
Drill Bits	Diameter		Dimensin of carbide, mm		Angle	Flushing hole		Weight kg	Part NO.
	mm	in	Height	Width		Front	Gauge		
	29	1' 9/64"	12	8	-	1	2	0.25	KTB-29H2211-12/8-L
	30	1' 3/16"	12	8	-	1	2	0.26	KTB-30H2211-12/8-L
	32	1' 1/4"	12	8	-	1	2	0.3	KTB-32H2211-12/8-L
	33	1' 19/64"	12	8	-	1	2	0.32	KTB-33H2211-12/8-L
	35	1' 3/8"	12	8	-	1	2	0.36	KTB-35H2211-12/8-L
	36	1' 27/64"	12	8	-	1	2	0.39	KTB-36H2211-12/8-L
	38	1' 1/2"	12	8	-	1	2	0.43	KTB-38H2211-12/8-L
	41	1' 5/8"	14	8	-	1	2	0.49	KTB-41H2211-14/8-L

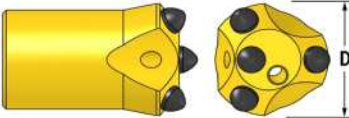
Shank 22x108 mm (7/8"x 41/4")(carburiized)				
Rods	Length		Weight approx kg	Part NO.
	mm	ft/in		
	610	2'	2.2	KTR-108H2211-610
	800	3'3"	2.78	KTR-108H2211-800
	1220	4'	4.06	KTR-108H2211-1220
	1830	6'	5.92	KTR-108H2211-1830
	2000	6'7"	6.44	KTR-108H2211-2000
	2435	8'	7.76	KTR-108H2211-2435
	3050	10'	9.64	KTR-108H2211-3050
	3660	12'	11.5	KTR-108H2211-3660
	4000	13'1"	12.54	KTR-108H2211-4000
	4800	15'9"	14.98	KTR-108H2211-4800
	5600	18'4"	17.42	KTR-108H2211-5600
	6400	21'	19.86	KTR-108H2211-6400
	7200	23'6"	22.3	KTR-108H2211-7200
	8000	26'2"	24.74	KTR-108H2211-8000

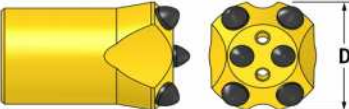
Handheld Drilling Tools

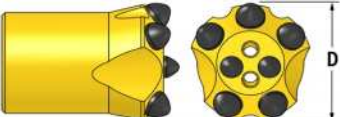
H22(7/8") TAPERED DRILL DRILLING TOOLS, 12°



Button bit (Short skirt)									
Drill Bits	Diameter		Buttons,mm		Angle	Flushing hole		Weight kg	Part NO.
	mm	in	Front NO x Size	Gauge NO x Size		Front	Gauge		
	28	1' 1/8"	1x7	4x7	35°	1	1	0.2	KTB-28H2212-17/47-S
	30	1' 3/16"	1x7	4x7	35°	1	1	0.22	KTB-30H2212-17/47-S

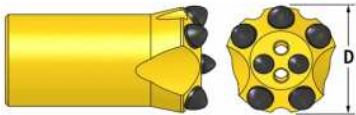
Button bit (Short skirt)									
	28	1' 1/8"	1x7	3x7	35°	1	1	0.2	KTB-28H2212-17/37-S
	30	1' 3/16"	1x7	3x7	35°	1	1	0.22	KTB-30H2212-17/37-S
	32	1' 1/4"	2x7	3x8	35°	1	2	0.24	KTB-32H2212-27/38-S
	34	1' 11/32"	1x8	3x8	35°	1	1	0.26	KTB-34H2212-18/38-S
	36	1' 7/16"	1x8	3x9	40°	1	1	0.29	KTB-36H2212-18/39-S
	38	1' 1/2"	2x8	3x9	40°	1	1	0.32	KTB-38H2212-28/39-S
	40	1' 37/64"	2x8	3x9	40°	1	1	0.36	KTB-40H2212-28/39-S

Button bit (Short skirt)									
	32	1' 1/4"	2x7	4x7	35°	1	1	0.24	KTB-32H2212-27/47-S
	34	1' 11/32"	2x7	4x7	35°	2	1	0.29	KTB-34H2212-27/47-S
	36	1' 7/16"	2x7	4x8	35°	2	1	0.32	KTB-36H2212-27/48-S

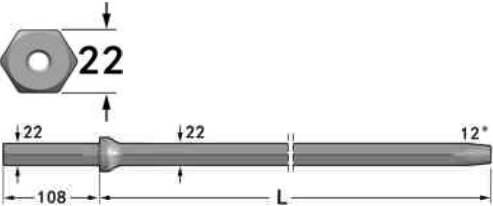
Button bit (Short skirt)									
	32	1' 1/4"	2x7	5x7	40°	2	1	0.24	KTB-32H2212-27/57-S
	34	1' 11/32"	2x7	5x7	35°	2	1	0.29	KTB-34H2212-27/57-S
	35	1' 3/8"	2x7	5x8	40°	2	1	0.32	KTB-35H2212-27/58-S
	36	1' 7/16"	2x7	5x8	40°	2	1	0.32	KTB-36H2212-27/58-S
	38	1' 1/2"	2x7	5x8	35°	2	1	0.34	KTB-38H2212-27/58-S
	38	1' 1/2"	2x7	5x9	40°	2	1	0.34	KTB-38H2212-27/59-S
	41	1' 5/8"	2x8	5x9	40°	2	1	0.39	KTB-41H2212-28/59-S

Handheld Drilling Tools

H22(7/8") TAPERED DRILLING TOOLS, 12°

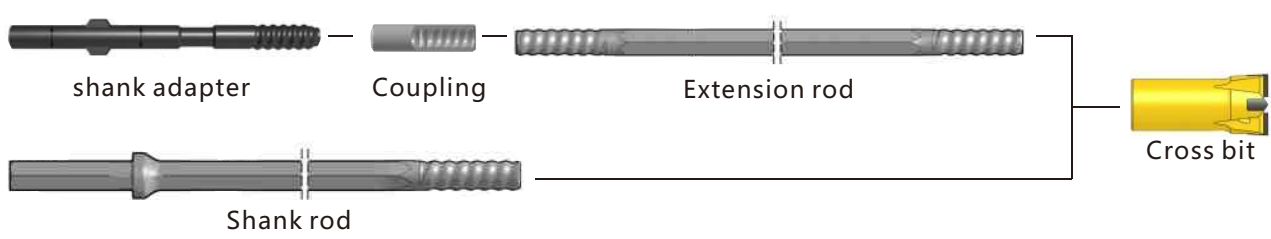
Button bit(Short skirt)									
Drill Bits	Diameter		Dimensin of carbide, mm		Angle	Flushing hole		Weight kg	Part NO.
	mm	in	Height	Width		Front	Gauge		
	33	1' 9/64"	2x7	5x7	40°	1	1	0.29	KTB-33H2212-27/57-S
	35	1' 3/8"	2x7	5x8	40°	2	1	0.32	KTB-35H2212-27/58-S
	38	1' 1/2"	2x7	5x9	40°	2	1	0.34	KTB-38H2212-27/59-S

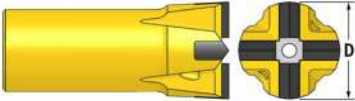
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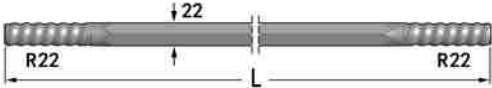
Shank 22x108 mm (7/8"x 41/4")				
Drill Bits	Length		Weight kg	Part NO.
	mm	ft/in		
	610	2'	2.2	KTR-108H2212-610
	800	3'3"	2.78	KTR-108H2212-800
	1220	4'	4.06	KTR-108H2212-1220
	1830	6'	5.92	KTR-108H2212-1830
	2000	6'7"	6.44	KTR-108H2212-2000
	2435	8'	7.76	KTR-108H2212-2435
	3050	10'	9.64	KTR-108H2212-3050
	3660	12'	11.5	KTR-108H2212-3660
	4000	13'1"	12.54	KTR-108H2212-4000
	4800	15'9"	14.98	KTR-108H2212-4800
	5600	18'4"	17.42	KTR-108H2212-5600
	6400	21'	19.86	KTR-108H2212-6400
	7200	23'6"	22.3	KTR-108H2212-7200
	8000	26'2"	24.74	KTR-108H2212-8000

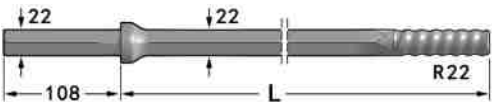
Handheld Drilling Tools

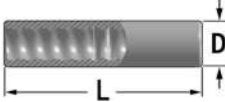
R22 (7/8")EXTENSION DRILLING TOOLS



Cross bit									
Drill Bits	Diameter		Buttons,mm		Angle	Flushing hole		Weight kg	Part NO.
	mm	in	Front NO x Size	Gauge NO x Size		Front	Gauge		
	38	1 1/2"	-	-	-	1	2	0.34	KCB-38R22-12/8
	40	1 37/64"	-	-	-	1	2	0.37	KCB-40R22-12/8

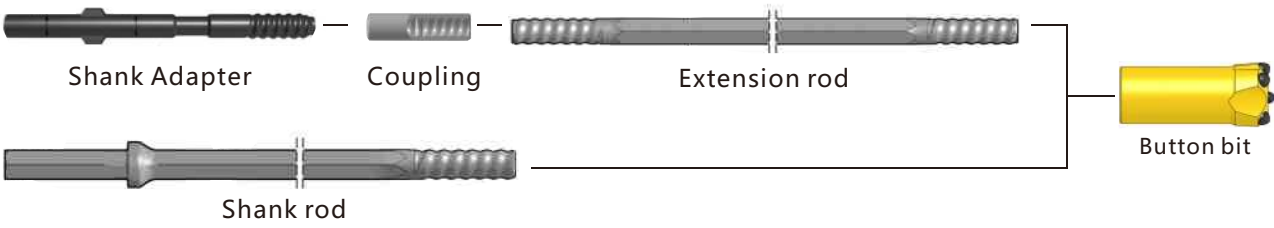
Extension rod R22-Hex22-R22						
	Length		Bit diameter		Weight kg	Part no.
	mm	ft/in	mm	inch		
	800	2'7"	22	7/8"	2.44	KMM-R22-H22-R22-800
	1200	3'11"	22	7/8"	3.66	KMM-R22-H22-R22-1200
	1600	5'3"	22	7/8"	4.88	KMM-R22-H22-R22-1600
	2000	6'7"	22	7/8"	6.1	KMM-R22-H22-R22-2000
	2435	8'	22	7/8"	7.44	KMM-R22-H22-R22-2435

Shank rod Hex22-R22						
	255	10 3/64"	22	7/8"	1.12	KSR-108H22-R22-255
	1000	3'3"	22	7/8"	3.39	KSR-108H22-R22-1000

Coupling R22						
	140	5 1/2"	32	1 1/4"	0.6	KCS-R22-D32-140

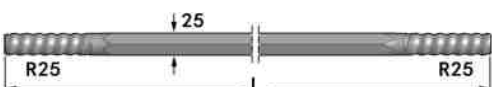
Handheld Drilling Tools

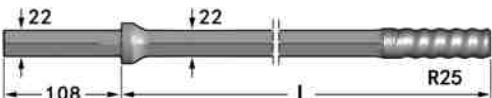
R25 (1")EXTENSION DRILLING TOOLS

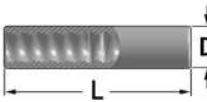


Button bit									
Drill Bits	Diameter		Buttons,mm		Angle	Flushing hole		Weight kg	Part NO.
	mm	in	Front NO x Size	Gauge NO x Size		Front	Gauge		
	35	1 3/8"	2x7	5x8	35°	1	1	0.4	KB-35R25-27/58
	35	1 3/8"	2x7	5x8	35°	1	1	0.4	KB-35R25-27/58
	38	1 1/2"	2x7	5x9	30°	1	1	0.5	KB-38R25-27/59
	38	1 1/2"	2x7	5x9	35°	1	1	0.5	KB-38R25-27/59
	41	1 5/8"	2x8	5x9	35°	1	1	0.6	KB-41R25-28/59
	41	1 5/8"	2x8	5x9	35°	1	1	0.6	KB-43R25-28/59

Button bit									
	45	1 3/4"	3x8	6x9	40°	-	-	0.8	KBB-45R25-38/69

Extension rod R25-Hex25-R25						
	Length		Diameter		Weight kg	Part no.
	mm	ft/in	mm	inch		
	915	2'7"	25	1"	3.66	KMM-R25-H25-R25-915
	1220	3'11"	25	1"	4.88	KMM-R25-H25-R25-1220
	1525	5'3"	25	1"	6.1	KMM-R25-H25-R25-1525
	1830	6'7"	25	1"	7.32	KMM-R25-H25-R25-1830
	2435	8'	25	1"	9.74	KMM-R25-H25-R25-2435
	3050	10'	25	1"	12.2	KMM-R25-H25-R25-3050

Shank rod					
	255	10 3/64"	22	7/8"	1.14 KSR-108H22-R25-255
	800	2'7"	22	7/8"	2.78 KSR-108H22-R25-800
	1000	3'3"	22	7/8"	3.39 KSR-108H22-R25-1000

Coupling sleeve					
	150	5 7/8"	35	1 3/8"	0.7 KCS-R25-D35-150



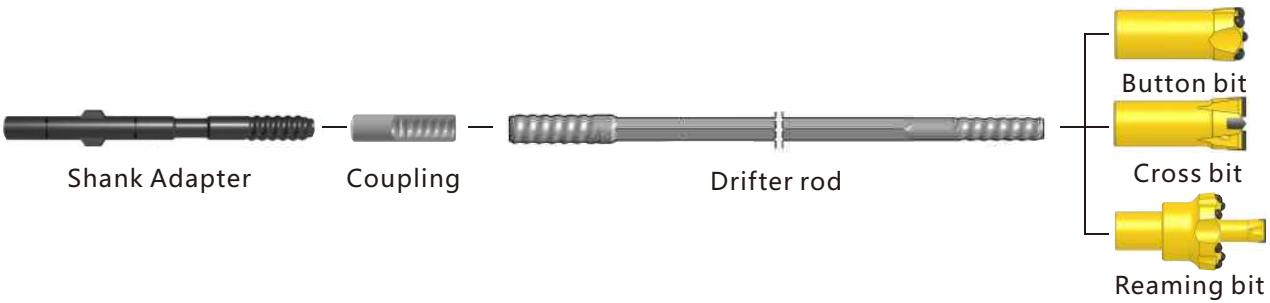
Drifting and tunneling

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R25 (1") Series	22
R28 (1 1/8") Series	23
R32 (1 1/4") Series	24
R35 (1 3/8") Series	27

Drifting & Tunneling Drilling Tools

R25(1") SERIES



Button bit									
Drill Bits	Diameter (D)		Buttons,mm		Angle	Flushing hole		Weight kg	Part NO.
	mm	in	Front NO x Size	Gauge NO x Size		Front	Gauge		
	35	1 3/8"	2x7	5x9	30°	1	1	0.5	KB-35R25-27/59
	37	1 29/64"	2x7	5x9	30°	1	1	0.6	KB-37R25-27/59
	38	1 1/2"	2x7	5x9	30°	1	1	0.6	KB-38R25-27/59
	41	1 5/8"	2x8	5x9	30°	1	1	0.6	KB-41R25-28/59

Cross bit									
	33	1 5/16"	-	-	-	1	2	0.4	KCB-33R25-12/8
	35	1 3/8"	-	-	-	1	2	0.5	KCB-35R25-14/8
	38	1 1/2"	-	-	-	1	2	0.6	KCB-38R25-14/8

Reaming bit, 6° taper, Pilot adapter 6° taper, R25 thread									
	64	2 1/2"	4x8	8x9	25°	-	-	0.9	KRB-646-48/89
	76	3"	4x10	8x10	30°	-	-	1.3	KRB-766-410/810
	89	3 1/2"	4x11	8x11	30°	-	-	1.7	KRB-896-411/811

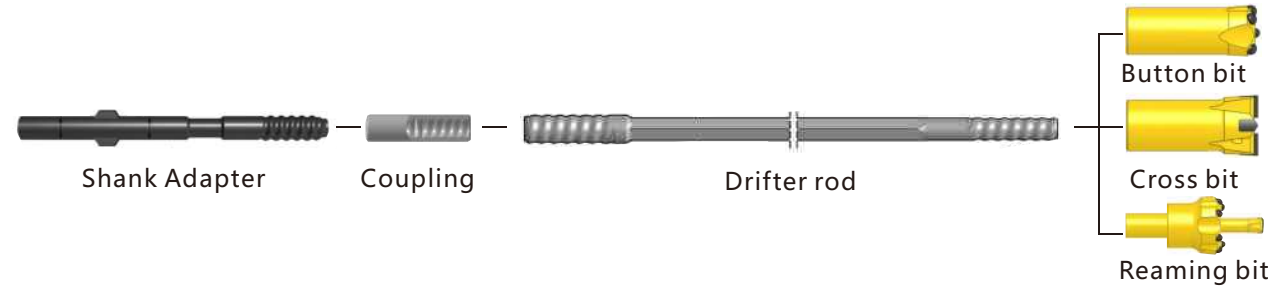
	26	1 1/32"	-	-	-	-	-	1.3	KPA-26R25-15/8
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Drifter rod R32-Hex25-R25						
Rods	Length		Diameter (D)		Weight kg	Part no.
	mm	ft/in	mm	inch		
	2200	7'2 5/8 "	25	1"	8.9	KMM-R32-H25-R25-2200
	2400	7'10 1/2 "	25	1"	9.7	KMM-R32-H25-R25-2400
	2600	8'6 3/8 "	25	1"	10.5	KMM-R32-H25-R25-2600
	2800	9'2 1/4 "	25	1"	11.3	KMM-R32-H25-R25-2800
	3090	10'1 5/8 "	25	1"	12.4	KMM-R32-H25-R25-3090
	3700	12'1 5/8 "	25	1"	14.9	KMM-R32-H25-R25-3700

Coupling						
	160	6 1/4"	35	1 3/8"	0.7	KCS-R25-D35-160
	150	5 7/8"	44	1 23/32"	1	KCS-R32-D44-150

Drifting & Tunneling Drilling Tools

R28(1 1/8") SERIES



Button bit									
Drill Bits	Diameter (D)		Buttons,mm		Angle	Flushing hole		Weight kg	Part NO.
	mm	in	Front NO x Size	Gauge NO x Size		Front	Gauge		
	38	1 1/2"	2x7	5x9	30°	1	1	0.6	KB-38R28-27/59
	38	1 1/2"	2x7	5x9	35°	1	1	0.6	KB-38R28-27/59
	41	1 5/8"	2x8	5x9	35°	1	1	0.7	KB-41R28-28/59
	43	1 11/16"	2x8	5x10	30°	1	1	0.7	KB-43R28-28/510

Cross bit									
	38	1 1/2"	-	-	-	1	2	0.6	KCB-38R28-14/8
	41	1 5/8"	-	-	-	1	2	0.7	KCB-41R28-14/8

Reaming bit, 6° taper, Pilot adapter, 6° taper, R28 thread									
	64	2 1/2"	4x8	8x9	25°	-	-	0.9	KRB-646-48/89
	76	3"	4x10	8x10	30°	-	-	1.3	KRB-766-410/810
	89	3 1/2"	4x11	8x11	30°	-	-	1.7	KRB-896-411/811

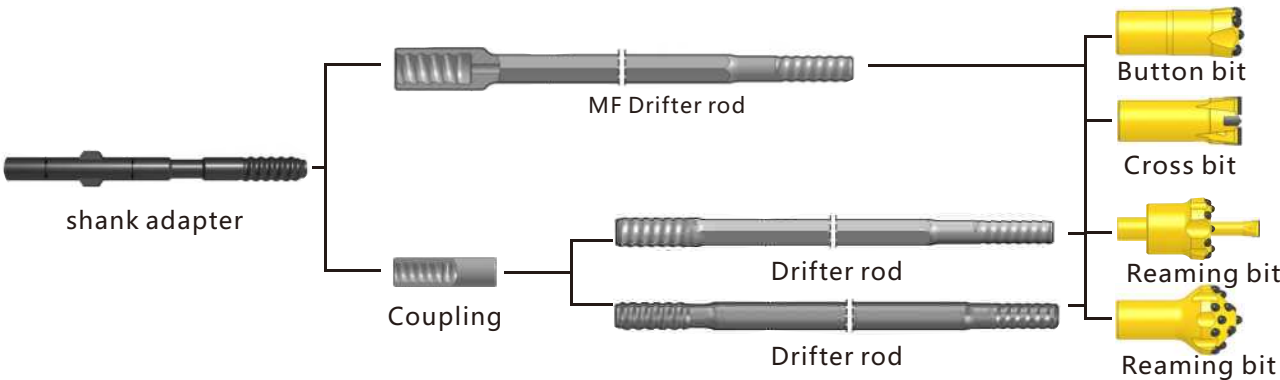
	26	1 1/32"	-	-	-	-	-	1.3	KPA-26R28-15/8
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Drifter rod R32-Hex28-R28						
Drill Rods	Length		Diameter (D)		Weight kg	Part no.
	mm	ft/in	mm	inch		
	2400	7'10 1/2 "	28	1 1/8"	12.3	KMM-R32-H28-R28-2400
	2750	9'1/4 "	28	1 1/8"	14.1	KMM-R32-H28-R28-2750
	3090	10'1 5/8 "	28	1 1/8"	18.9	KMM-R32-H28-R28-3090
	3700	12'1 5/8 "	28	1 1/8"	22	KMM-R32-H28-R28-3700
	4310	14'1 5/8 "	28	1 1/8"	22	KMM-R32-H28-R28-4310

Coupling						
	R28	160	6 1/4"	41	1 5/8"	1
	R32	150	5 7/8"	44	1 23/32"	1

Drifting & Tunneling Drilling Tools

R32(1 1/4") SERIES



Button bit									
Drill Bits	Diameter (D)		Buttons,mm		Angle	Flushing hole		Weight kg	Part NO.
	mm	in	Front NO x Size	Gauge NO x Size		Front	Gauge		
	43	1 11/16"	2x9	5x10	35°	1	2	0.7	KB-43R32-29/510
	45	1 3/4"	2x9	5x11	30°	1	2	0.8	KB-45R32-29/511
	48	1 7/8"	2x9	5x11	35°	1	2	0.9	KB-48R32-29/511
	51	2"	2x10	5x12	35°	1	2	1	KB-51R32-210/512

Button bit									
	43	1 11/16"	2x9	6x9	40°	2	2	0.7	KB-43R32-29/69
	45	1 3/4"	2x9	6x10	35°	2	2	0.8	KB-45R32-29/610

Button bit									
	45	1 3/4"	3x8	6x10	25°	3	1	0.8	KB-45R32-38/610
	45	1 3/4"	3x8	6x10	30°	3	1	0.8	KB-45R32-38/610
	48	1 7/8"	3x9	6x10	30°	3	1	0.9	KB-48R32-39/610
	48	1 7/8"	3x9	6x10	30°	3	1	0.9	KB-48R32-39/610
	51	2"	3x9	6x10	35°	3	1	1	KB-51R32-39/610

Cross bit									
	45	1 3/4"	-	-	-	1	4	0.8	KCB-45R32-16/10
	51	2"	-	-	-	1	4	1	KCB-51R32-16/10

Drifting & Tunneling Drilling Tools

R32(1 1/4") SERIES

Reaming bit and pilot adapter, 6°taper, R32 thread									
	64	2 1/2"	4x8	8x9	25°	-	-	0.9	KRB-646-48/89
	76	3"	4x10	8x10	30°	-	-	1.3	KRB-766-410/810
	89	3 1/2"	4x11	8x11	30°	-	-	1.7	KRB-896-411/811
	26	1 1/32"	-	-	-	-	-	1.3	KPA-26R32-15/8

Reaming bit and pilot adapter, 12°taper, R32 thread									
	89	3 1/2"	4x10	8x12	35°	-	-	1.7	KRB-8912-410/812
	102	4"	4x12	8x12	35°	-	-	2.1	KRB-10212-412/812
	127	5"	8x12	8x13	35°	-	-	3.6	KRB-12712-812/813
	40	1 37/64"	-	-	-	-	-	2.9	KPA-40R32-18/10

Reaming bit, R32									
	76	3"	6x10	8x12	35°	2	2	2.7	KRB-76R32-610/812
	89	3 1/2"	10x10	8x12	35°	2	2	3.1	KRB-89R32-1010/812
	102	4"	9x12	8x12	35°	2	2	3.6	KRB-102R32-912/812

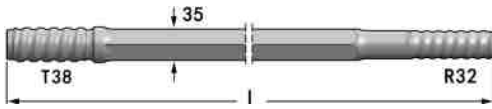
Drifter rod R38-Hex32-R32							
Drill Rods	Length		Diameter (D)		Weight kg	Part no.	
	mm	ft/in	mm	inch			
	3090	10'1 5/8"	32	1 1/4"	19.8	KMM-R38-H32-R32-3090	
	3700	12'1 5/8"	32	1 1/4"	23.7	KMM-R38-H32-R32-3700	
	4310	14'1 5/8"	32	1 1/4"	27.6	KMM-R38-H32-R32-4310	
	4920	16'1 3/4"	32	1 1/4"	31.5	KMM-R38-H32-R32-4920	

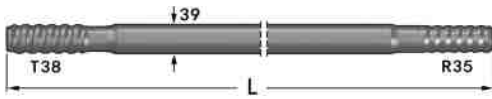
Drifter rod R38-Hex35-R32							
	3090	10'1 5/8"	35	1 1/4"	19.8	KMM-R38-H35-R32-3090	
	3700	12'1 5/8"	35	1 1/4"	23.7	KMM-R38-H35-R32-3700	
	4310	14'1 5/8"	35	1 1/4"	27.6	KMM-R38-H35-R32-4310	
	4920	16'1 3/4"	35	1 1/4"	31.5	KMM-R38-H35-R32-4920	
	5530	18' 1 3/4"	35	1 3/8"	43.7	KMM-R38-H35-R32-5530	

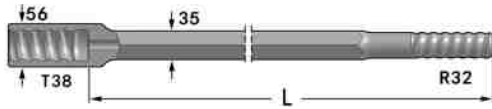
Drifter rod T38-Hex32-R32							
	3700	12'1 5/8"	32	1 1/4"	23.7	KMM-T38-H32-R32-3700	
	4310	14'1 5/8"	32	1 1/4"	27.6	KMM-T38-H32-R32-4310	
	4920	16'1 3/4"	32	1 1/4"	31.5	KMM-T38-H32-R32-4920	

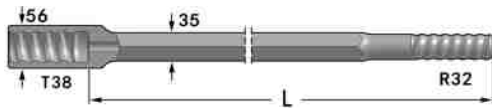
Drifting & Tunneling Drilling Tools

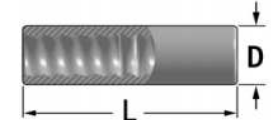
R32(1 1/4") SERIES

Drifter rod T38-Hex35-R32						
Drill Rods	Length		Diameter (D)		Weight appr.kg	Part no.
	mm	ft/in	mm	inch		
	3090	10'1 5/8"	35	1 3/8"	24.5	KMM-T38-H35-R32-3090
	3700	12'1 5/8"	35	1 3/8"	29.3	KMM-T38-H35-R32-3700
	4310	14'1 5/8 "	35	1 3/8"	34.1	KMM-T38-H35-R32-4310
	4920	16'1 3/4"	35	1 3/8"	38.9	KMM-T38-H35-R32-4920
	5530	18'1 3/4"	35	1 3/8"	43.7	KMM-T38-H35-R32-5530

Drifter rod, R32-Round32-R32						
	1830	6'	32	1 1/4"	8.0	KMM-T38-R39-R35-1830
	2440	8'	32	1 1/4"	11.5	KMM-T38-R39-R35-2440
	3050	10'	32	1 1/4"	16.2	KMM-T38-R39-R35-3050
	3660	12'	32	1 1/4"	19.5	KMM-T38-R39-R35-3660

MF rod T38-Hex35-R32						
	3700	12'1 5/8"	35	1 3/8"	31.3	KMF-R38-H35-R32-3700
	4310	14'1 5/8 "	35	1 3/8"	36.1	KMF-R38-H35-R32-4310
	4920	16'1 3/4"	35	1 3/8"	40.9	KMF-R38-H35-R32-4920
	5530	18'1 3/4"	35	1 3/8"	45.7	KMF-R38-H35-R32-5530

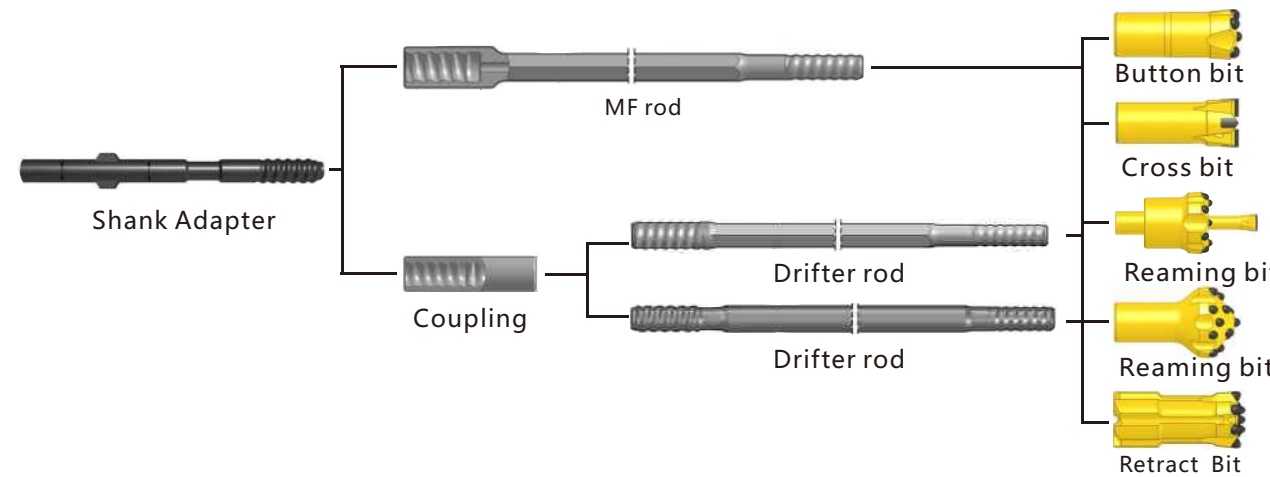
MF rod T38-Hex35-R32						
	3700	12'1 5/8"	32	1 1/4"	9.4	KMF-R32-R32-R32-3700
	4310	14'1 5/8 "	32	1 1/4"	12.9	KMF-R32-R32-R32-4310
	4920	16'1 3/4"	32	1 1/4"	17.4	KMF-R32-R32-R32-4920
	5530	18'1 3/4"	32	1 1/4"	20.6	KMF-R32-R32-R32-5530

Coupling						
	R32	150	6"	45	1 3/4"	1.0 KCS-R32-D45-150
	R38	170	6 3/4"	55	2 5/32"	1.9 KCS-R38-D55-170
	T38	190	6 1/8"	55	2 5/32"	2.0 KCS-T38-D55-190

Coupling						
	R25-R32	175	6' 7/8"	45	1 3/4"	1.5 KCC-R25-R32-D45-175
	R28-R32	171	6'3/4"	45	1 3/4"	1.4 KCC-R28-R32-D45-171
	R38-R32	181	7'1/8"	54	2 1/8"	2.1 KCC-R38-R32-D54-181
	T38-R32	188	7'1/2"	54	2 1/8"	2.2 KCC-T38-R32-D54-188

Drifting & Tunneling Drilling Tools

R35(1 3/8") SERIES



Button bit									
Drill Bits	Diameter (D)		Buttons,mm		Angle	Flushing hole		Weight kg	Part NO.
	mm	in	Front NO x Size	Gauge NO x Size		Front	Gauge		
	48	1 7/8"	2x9	5x11	35°	1	2	0.9	KB-48R35-29/511
	51	2"	2x10	5x12	35°	1	2	1	KB-51R35-210/512

Button bit									
	48	1 7/8"	3x9	6x10	30°	3	1	0.9	KB-48R35-39/610
	48	1 7/8"	3x9	6x10	30°	3	1	0.9	KB-48R35-39/610

	51	2"	3x9	6x10	35°	3	1	1	KB-51R35-39/610
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Cross bit									
	48	1 7/8"	-	-	-	1	2	0.9	KCB-48R35-16/10
	51	2"	-	-	-	1	2	1	KCB-51R35-16/10

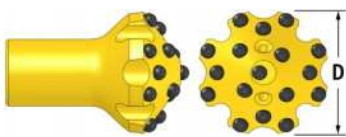
Retrac bit, Drop center									
	54	2 1/5"	3x9	6x11	30°	3	1	1.3	KBR-54R35-39/611

Reaming bit and pilot adapter, 12°taper , R35 thread									
	89	3 1/2"	4x10	8x12	35°	-	-	1.7	KRB-8912-410/812
	102	4"	4x12	8x12	35°	-	-	2.1	KRB-10212-412/812
	127	5"	8x12	8x13	35°	-	-	3.6	KRB-12712-812/813
	40	1 37/64"	-	-	-	-	-	2.9	KPA-40R35-18/10

Drifting & Tunneling Drilling Tools

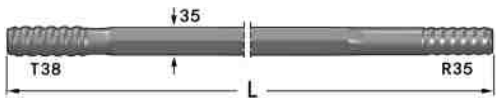
R35(1 3/8") SERIES

Reaming bit, R35									
Drill Bits	Diameter (D)		Buttons,mm		Angle	Flushing hole		Weight kg	Part NO.
	mm	in	Front NO x Size	Gauge NO x Size		Front	Gauge		



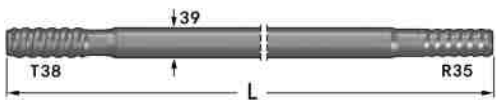
76	3"	6x10	8x12	35°	2	2	2.7	KRB-76R35-610/812
89	3 1/2"	10x10	8x12	35°	2	2	3.1	KRB-89R35-1010/812
102	4"	9x12	8x12	35°	2	2	3.6	KRB-102R35-912/812

Drifter rod T38-Hex35-R35							
Drill Bits	Length		Diameter (D)		Weight appr.kg		Part no.
	mm	ft/in	mm	inch			



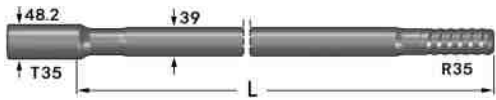
4310	14'1 5/8 "	35	1 1 3/8"	34.1	KMM-T38-H35-R35-4310
4920	16'1 3/4"	35	1 3/8"	38.9	KMM-T38-H35-R35-4920
5530	18'1 3/4"	35	1 3/8"	43.7	KMM-T38-H35-R35-5530
6100	20'1 1/8"	35	1 3/8"	48.2	KMM-T38-H35-R35-6100

Drifter rod T38-Round 39-R35							
Drill Bits	Length		Diameter (D)		Weight appr.kg		Part no.
	mm	ft/in	mm	inch			



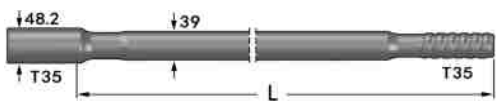
4310	14'1 5/8 "	39	1 1/2"	35.0	KMM-T38-R39-R35-4310
4920	16'1 3/4"	39	1 1/2"	39.9	KMM-T38-R39-R35-4920
5530	18'1 3/4"	39	1 1/2"	44.8	KMM-T38-R39-R35-5530
6100	20'1 1/8"	39	1 1/2"	49.5	KMM-T38-R39-R35-6100

MF rod T35-Round 39-R35							
Drill Bits	Length		Diameter (D)		Weight appr.kg		Part no.
	mm	ft/in	mm	inch			



4310	14'1 5/8 "	39	1 1/2"	37	KMF-T35-R39-R35-4310
4920	16'1 3/4"	39	1 1/2"	41.9	KMF-T35-R39-R35-4920
5530	18'1 3/4"	39	1 1/2"	46.8	KMF-T35-R39-R35-5530
6100	20'1 1/8"	39	1 1/2"	51.5	KMF-T35-R39-R35-6100

MF rod T35-Round 39-T35							
Drill Bits	Length		Diameter (D)		Weight appr.kg		Part no.
	mm	ft/in	mm	inch			



3050	10'	39	1 1/2"	26.7	KMF-T35-R39-T35-3050
3660	12'	39	1 1/2"	31.7	KMF-T35-R39-T35-3660
4270	14'	39	1 1/2"	36.6	KMF-T35-R39-T35-4270
4880	16'	39	1 1/2"	41.6	KMF-T35-R39-T35-4880

Coupling sleeve							
Coupling sleeve	Length		Diameter (D)		Weight kg		Part NO.
	mm	ft/in	mm	inch			



R35	160	6 1/4"	48	1 7/8"	1.2	KCS-R35-D48-160
T38	190	6 1/8"	55	2 5/32"	2	KCS-T38-D55-190

Crossover Coupling							
Crossover Coupling	Length		Diameter (D)		Weight kg		Part NO.
	mm	ft/in	mm	inch			



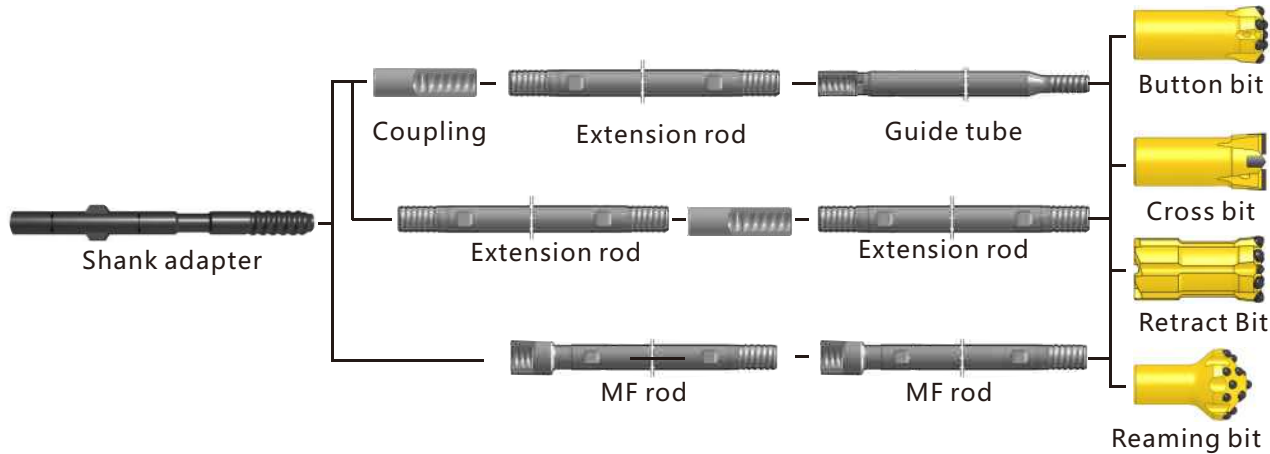
R35-R32	171	6 3/4"	48	1 7/8"	1.5	KCC-R35-R32-D48-171
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Bench & Long Hole Drilling Tools	Page
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Bench & Long Hole Drilling Tools

R32(1 1/4") SERIES



Button bit									
Drill Bits	Diameter		Buttons,mm		Angle	Flushing hole		Weight kg	Part NO.
	mm	in	Front NO x Size	Gauge NO x Size		Front	Gauge		
	51	2"	3x9	6x10	35°	3	1	1	KB-51R32-39/610
	51	2"	3x9	6x10	35°	3	1	1	KB-51R32-39/610
	57	2 1/4"	3x10	6x11	35°	3	1	1.2	KB-57R32-310/611
	64	2 1/2"	3x11	6x12	30°	3	-	1.6	KB-64R32-311/612

Retrac bit									
	51	2"	3x9	6x10	35°	3	-	1.2	KBR-51R32-39/610
	51	2"	3x9	6x10	35°	3	-	1.2	KBR-51R32-39/610
	57	2 1/4"	3x10	6x11	35°	3	-	1.7	KBR-57R32-310/611
	64	2 1/2"	3x11	6x12	30°	3	-	2.1	KBR-64R32-311/612

Cross bit									
	51	2"	-	-	-	1	2	1.0	KCB-51R32-16/10

Retrac bit, drop center									
	51	2"	3x8	6x10	40°	3	-	1.2	KRBD-51R32-38/610

Reaming bit, R32									
	102	4"	9x12	8x12	35°	2	2	3.6	KRB-102R32-912/812
	127	5"	9x13	8x13	35°	2	2	6.9	KRB-127R32-913/813

Bench & Long Hole Drilling Tools

R32(1 1/4") SERIES

Extension rod, R32-Round 32-R32						
Drill Rods	Length		Diameter		Weight kg	Part no.
	mm	ft/in	mm	inch		
	915	3 '	32	1 1/4"	5.4	KMM-R32-R32-R32-915
	1220	4 '	32	1 1/4"	7.2	KMM-R32-R32-R32-1220
	1525	5 '	32	1 1/4"	9.0	KMM-R32-R32-R32-1525
	1830	6 '	32	1 1/4"	10.8	KMM-R32-R32-R32-1830
	2435	8 '	32	1 1/4"	14.3	KMM-R32-R32-R32-2435
	3050	10 '	32	1 1/4"	17.9	KMM-R32-R32-R32-3050
	3660	12 '	32	1 1/4"	21.5	KMM-R32-R32-R32-3660

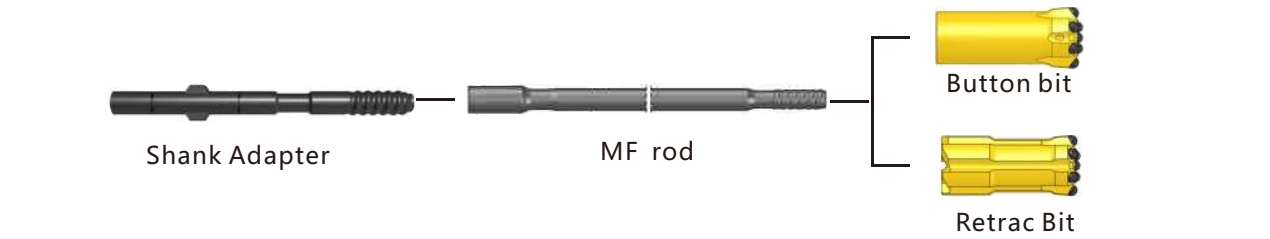
MF rod, R32-Round 32-R32						
	915	3 '	32	1 1/4"	6.2	KMF-R32-R32-R32/46-915
	1220	4 '	32	1 1/4"	8	KMF-R32-R32-R32/46-1220
	1525	5 '	32	1 1/4"	9.8	KMF-R32-R32-R32/46-1525
	1830	6 '	32	1 1/4"	11.6	KMF-R32-R32-R32/46-1830
	2435	8 '	32	1 1/4"	15.1	KMF-R32-R32-R32/46-2435
	3050	10 '	32	1 1/4"	18.7	KMF-R32-R32-R32/46-3050
	3660	12 '	32	1 1/4"	22.3	KMF-R32-R32-R32/46-3660

Guide tube						
	1830	6 '	46	1 3/4"	16.0	KGT-R32-G46-R32/46-1830
	3050	10 '	46	1 3/4"	26.0	KGT-R32-G46-R32/46-3050

Coupling						
	150	5 7/8 "	44	1 23/32"	1.0	KCC-R32-D44-150

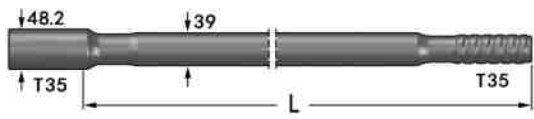
Bench & Long Hole Drilling Tools

T35(1 3/8") SERIES



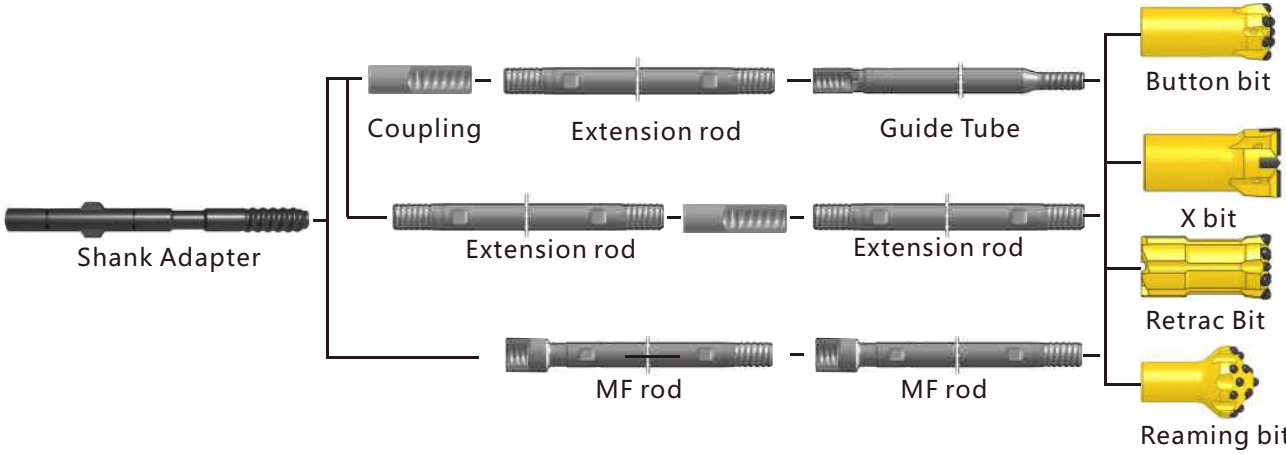
Button bit									
Drill Bits	Diameter		Buttons,mm		Angle	Flushing hole		Weight kg	Part NO.
	mm	in	Front NO x Size	Gauge NO x Size		Front	Gauge		
	54	2 1/6"	3x9	6x10	35°	3	1	1.1	KB-54T35-39/610
	57	2 1/4"	3x10	6x11	35°	3	1	1.2	KB-57T35-310/611
	64	2 1/2"	3x10	6x11	35°	3	1	1.5	KB-64T35-310/611

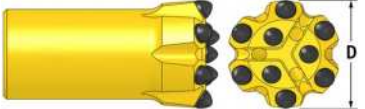
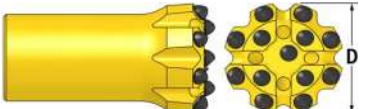
Retractor bit, Drop center									
Drill Bits	Diameter		Buttons,mm		Angle	Flushing hole		Weight kg	Part NO.
	mm	in	Front NO x Size	Gauge NO x Size		Front	Gauge		
	54	2 1/5"	3x9	6x10	35°	3	-	1.3	KBRD-54T35-39/610
	57	2 1/4"	3x10	6x11	35°	3	-	1.5	KBRD-57T35-310/611
	64	2 1/2"	3x10	6x11	35°	3	-	1.8	KBRD-64T35-310/611

MF-rod, T35-Round 39-T35						
Drill Rods	Length		Diameter		Weight kg	Part no.
	mm	ft/in	mm	inch		
	1220	4 '	39	1 1/2"	10.4	KMF-T35-R39-T35/48-1220
	1525	5 '	39	1 1/2"	12.8	KMF-T35-R39-T35/48-1525
	1830	6 '	39	1 1/2"	16.5	KMF-T35-R39-T35/48-1830
	3050	10 '	39	1 1/2"	26.4	KMF-T35-R39-T35/48-3050
	3660	12 '	39	1 1/2"	31.3	KMF-T35-R39-T35/48-3660
	4270	14 '	39	1 1/2"	36.2	KMF-T35-R39-T35/48-4270

Bench & Long Hole Drilling Tools

T38(1 1/2") SERIES



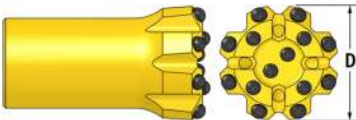
Button bit									
Drill Bits	Diameter		Buttons,mm		Angle	Flushing hole		Weight kg	Part NO.
	mm	in	Front NO x Size	Gauge NO x Size		Front	Gauge		
	64	2 1/2"	3x11	6x12	30°	3	-	1.6	KB-64T38-311/612
	64	2 1/2"	3x11	6x12	35°	3	-	1.6	KB-64T38-311/612
	64	2 1/2"	5x9	8x10	35°	4	-	1.7	KB-64T38-59/810
	70	2 3/4"	5x10	8x11	30°	4	-	1.9	KB-70T38-510/811
	76	3"	5x11	8x12	35°	4	-	2.3	KB-76T38-511/812
	76	3"	5x11	8x11	40°	4	-	2.3	KB-76T38-511/811
	89	3 1/2"	5x12	8x12	35°	4	-	3.2	KB-89T38-512/812

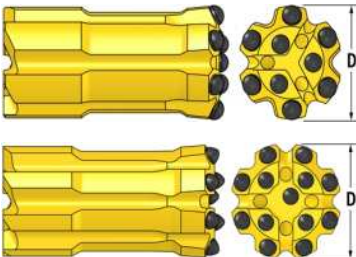
Button bit, Flat face									
Drill Bits	Diameter		Buttons,mm		Angle	Flushing hole		Weight kg	Part NO.
	mm	in	Front NO x Size	Gauge NO x Size		Front	Gauge		
	64	2 1/2"	4x10	8x10	35°	2	-	1.6	KBF-64T38-410/810
	70	2 3/4"	4x11	8x11	40°	2	-	1.9	KBF-70T38-411/811
	76	3"	4x11	8x11	40°	2	-	2.3	KBF-76T38-411/811
	89	3 1/2"	4x12	8x12	40°	2	-	2.3	KBF-89T38-412/812
	76	3"	6x10	8x11	35°	2	-	2.3	KBF-76T38-610/811
	76	3"	6x10	8x11	40°	2	-	2.3	KBF-76T38-610/811
	89	3 1/2"	6x11	8x12	35°	2	-	3.2	KBF-89T38-611/812

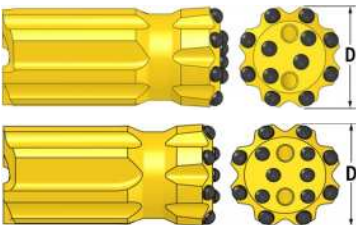
Button bit, Drop center									
Drill Bits	Diameter		Buttons,mm		Angle	Flushing hole		Weight kg	Part NO.
	mm	in	Front NO x Size	Gauge NO x Size		Front	Gauge		
	64	2 1/2"	4x10	6x11	35°	3	-	1.6	KBD-64T38-410/611
	64	2 1/2"	4x10	6x11	35°	3	-	1.6	KBD-64T38-410/611
	70	2 3/4"	4x10	6x11	40°	3	-	1.9	KBD-70T38-410/611
	76	3"	4x11	6x13	35°	3	-	2.3	KBD-76T38-411/613
	76	3"	4x11	6x13	35°	3	-	2.3	KBD-76T38-411/613
	89	3 1/2"	5x11	6x13	35°	3	-	3.2	KBD-89T38-511/613

Bench & Long Hole Drilling Tools

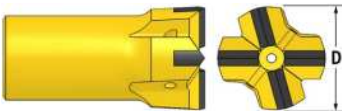
T38(1 1/2") SERIES

Button bit, Drop center									
Drill Bits	Diameter		Buttons,mm		Angle	Flushing hole		Weight kg	Part NO.
	mm	in	Front NO x Size	Gauge NO x Size		Front	Gauge		
	76	3"	6x10	8x11	35°	4	-	2.3	KBD-76T38-610/811
	89	3 1/2"	6x11	8x12	35°	4	-	3.2	KBD-89T38-611/812

Retrac bit, Drop center									
	64	2 1/2"	3x11	6x12	30°	3	-	2.2	KBRD-64T38-311/612
	64	2 1/2"	5x9	8x10	35°	4	-	2.2	KBRD-64T38-59/810
	70	2 3/4"	5x10	8x11	30°	4	-	2.4	KBRD-70T38-510/811
	76	3"	5x11	8x12	35°	4	-	2.9	KBRD-76T38-511/812
	89	3 1/2"	5x12	8x12	35°	4	-	3.2	KBRD-89T38-512/812

Retrac bit, Flat face									
	64	22 1/2"	4x10	8x10	35°	2	-	2.2	KBRF-64T38-410/810
	70	2 3/4"	4x11	8x11	40°	2	-	2.4	KBRF-70T38-411/811
	76	3"	6x10	8x11	35°	2	-	3.2	KBRF-76T38-610/811
	89	3 1/2"	6x11	8x12	35°	2	-	4.7	KBRF-89T38-611/812

Retrac bit, Drop center									
	64	2 1/2"	4x10	6x11	35°	3	1	2.2	KBRD-64T38-410/611
	70	2 3/4"	4x10	6x11	40°	3	1	2.4	KBRD-70T38-410/611
	76	3"	4x11	6x13	35°	3	1	3.2	KBRD-76T38-411/613
	76	3"	6x10	8x11	35°	4	1	3.2	KBRD-76T38-610/811
	89	3 1/2"	6x11	8x12	35°	4	1	4.7	KBRD-89T38-611/812

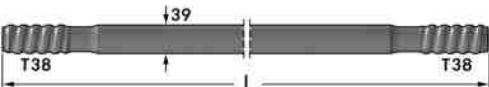
X bit									
	64	2 1/2"	-	-	-	1	2	2	KBX-64T38-25/13
	76	3"	-	-	-	1	2	2.6	KBX-76T38-25/13

Bench & Long Hole Drilling Tools

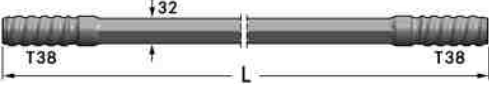
T38(1 1/2") SERIES

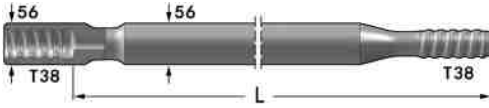
Retrac bit, Drop center									
Drill Bits	Diameter		Buttons,mm		Angle	Flushing hole		Weight kg	Part NO.
	mm	in	Front NO x Size	Gauge NO x Size		Front	Gauge		
	64	2 1/2"	4x9	6x11	35°	3	1	1.9	KGB-64T38-49/611
	76	3"	6x10	8x11	35°	4	-	2.4	KGB-76T38-610/811

Reaming bit, T38									
	102	4"	9x12	8x12	35°	2	2	3.6	KRB-102T38-912/812
	127	5"	9x13	8x13	35°	2	2	6.9	KRB-127T38-913/813

Extension rod, T38-Round 39-T38						
Drill Rods	Length		Diameter		Weight kg	Part no.
	mm	ft/in	mm	inch		
	1220	4 '	39	1 1/2"	9.9	KMM-T38-R39-T38-1220
	1525	5 '	39	1 1/2"	12.4	KMM-T38-R39-T38-1525
	1830	6 '	39	1 1/2"	14.9	KMM-T38-R39-T38-1830
	3050	10 '	39	1 1/2"	24.7	KMM-T38-R39-T38-3050
	3660	12 '	39	1 1/2"	29.7	KMM-T38-R39-T38-3660

MF rod, T38-Round 39-T38						
	915	3 '	39	1 1/2"	8.4	KMF-T38-R39-T38/57-915
	1220	4 '	39	1 1/2"	11.5	KMF-T38-R39-T38/57-1220
	1525	5 '	39	1 1/2"	14.0	KMF-T38-R39-T38/57-1525
	1830	6 '	39	1 1/2"	16.5	KMF-T38-R39-T38/57-1830
	3050	10 '	39	1 1/2"	26.4	KMF-T38-R39-T38/57-3050
	3660	12 '	39	1 1/2"	31.3	KMF-T38-R39-T38/57-3660
	4270	14 '	39	1 1/2"	36.2	KMF-T38-R39-T38/57-4270

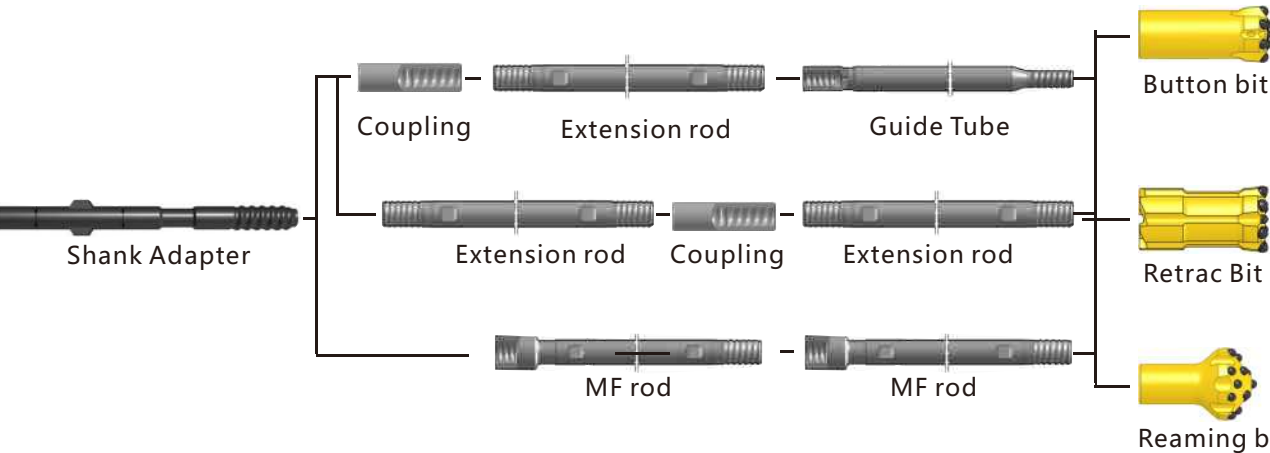
Extension rod, T38-Hex 32-T38						
	3050	10 '	32	1 1/4"	19.6	KMM-T38-H32-T38-3050
	3660	12 '	32	1 1/4"	22.1	KMM-T38-H32-T38-3660

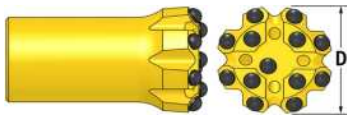
Guide tube						
	1220	4 '	56	1 13/64"	12.6	KGT-T38-G56-T38/56-1220
	1525	5 '	56	1 13/64"	14	KGT-T38-G56-T38/56-1525
	1830	6 '	56	1 13/64"	18.4	KGT-T38-G56-T38/56-1830
	3660	12 '	56	1 13/64"	33.8	KGT-T38-G56-T38/56-3660

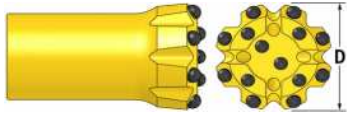
Coupling						
	T38	190	6 1/8"	55	2 5/32"	2 KCS-T38-D55-190

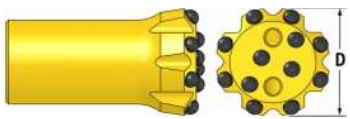
Bench & Long Hole Drilling Tools

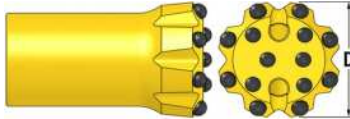
T45(1 3/4") SERIES

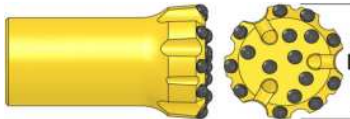


Button bit									
Drill Bits	Diameter		Buttons,mm		Angle	Flushing hole		Weight kg	Part NO.
	mm	in	Front NO x Size	Gauge NO x Size		Front	Gauge		
	70	2 3/4"	5x10	8x11	30°	4	-	2.3	KB-70T45-510/811
	76	3"	5x11	8x12	35°	4	-	2.5	KB-76T45-511/812
	76	3"	5x11	8x11	35°	4	-	2.5	KB-76T45-511/811
	89	3 1/2"	5x13	8x13	35°	4	-	3.2	KB-89T45-513/813
	89	3 1/2"	5x12	8x12	35°	4	-	3.2	KB-89T45-512/812

	102	4"	6x12	8x13	30°	4	-	4.4	KB-102T45-612/813
	102	4"	6x13	8x13	35°	4	-	4.4	KB-102T45-613/813

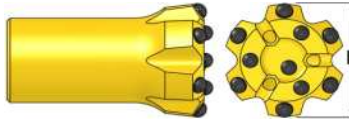
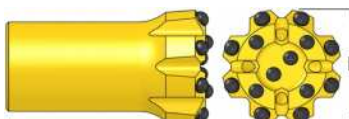
Button bit, Flat face									
	76	3"	4x11	8x11	35°	2	-	2.7	KBF-76T45-411/811
	89	3 1/2"	4x13	8x13	40°	2	-	3.5	KBF-89T45-413/813

	76	3"	6x10	8x11	35°	2	-	2.7	KBF-76T45-610/811
	89	3 1/2"	6x11	8x12	35°	2	-	3.5	KBF-89T45-611/812
	102	4"	6x12	8x13	35°	2	-	4.5	KBF-102T45-612/813

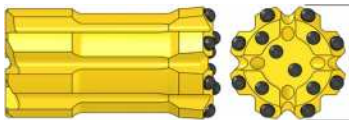
	89	3 1/2"	7x11	9x11	35°	3	-	3.5	KBF-89T45-711/911
	89	3 1/2"	7x11	9x12	35°	3	-	3.5	KBF-89T45-711/912
	102	4"	7x12	9x12	35°	3	-	4.5	KBF-102T45-712/912
	102	4"	7x12	9x13	35°	3	-	4.5	KBF-102T45-712/913

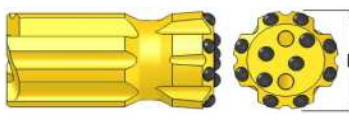
Bench & Long Hole Drilling Tools

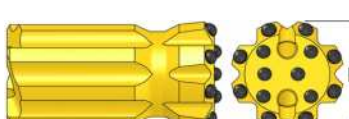
T45(1 3/4") SERIES

Button bit, Drop center									
Drill Bits	Diameter		Buttons,mm		Angle	Flushing hole		Weight kg	Part NO.
	mm	in	Front NO x Size	Gauge NO x Size		Front	Gauge		
	76	3"	4x11	6x13	35°	3	1	2.5	KBD-76T45-411/613
	89	3 1/2"	5x11	6x13	35°	3	1	3.2	KBD-89T45-511/613
	76	3"	6x10	8x11	35°	4	1	2.7	KBD-76T45-610/811
	89	3 1/2"	6x11	8x12	35°	4	1	3.5	KBD-89T45-611/812
	102	4"	6x12	8x13	35°	4	1	4.5	KBD-102T45-612/813
	115	4 1/2"	6x13	8x13	35°	4	1	6.2	KBD-115T45-613/813

Retrac bit, Drop center									
	70	2 3/4"	5x10	8x11	30°	4	-	2.7	KBRD-70T45-510/811
	76	3"	5x11	8x12	35°	4	-	3.2	KBRD-76T45-511/812
	76	3"	5x11	8x11	35°	4	-	3.2	KBRD-76T45-511/811
	89	3 1/2"	5x13	8x13	35°	4	-	4.8	KBRD-89T45-513/813
	89	3 1/2"	5x12	8x12	35°	4	-	4.8	KBRD-89T45-512/812

	102	4"	6x12	8x13	35°	4	-	6.8	KBRD-102T45-612/813
	102	4"	6x13	8x13	35°	4	-	6.8	KBRD-102T45-613/813

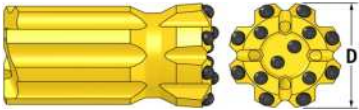
Retrac bit									
	76	3"	4x11	8x11	35°	2	-	3.3	KBRF-76T45-411/811
	89	3 1/2"	4x13	8x13	40°	2	-	5	KBRF-89T45-413/813

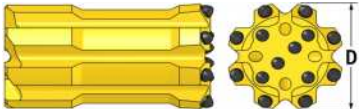
	76	3"	6x10	8x11	35°	2	-	3.3	KBRF-76T45-610/811
	89	3 1/2"	6x11	8x12	35°	2	-	5	KBRF-89T45-611/812
	102	4"	6x12	8x13	35°	2	-	7	KBRF-102T45-612/813

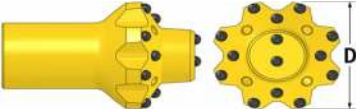
	89	3 1/2"	7x11	9x11	35°	3	-	5	KBRF-89T45-711/911
	89	3 1/2"	7x11	9x12	35°	3	-	5	KBRF-89T45-711/912
	102	4"	7x12	9x12	35°	3	-	7	KBRF-102T45-712/912
	102	4"	7x12	9x13	35°	3	-	7	KBRF-102T45-712/913

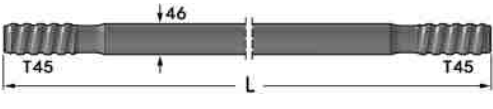
Bench & Long Hole Drilling Tools

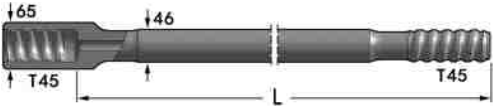
T45(1 3/4") SERIES

Retrac bit, Drop center									
Drill Bits	Diameter		Buttons,mm		Angle	Flushing hole		Weight kg	Part NO.
	mm	in	Front NO x Size	Gauge NO x Size		Front	Gauge		
	76	3"	4x11	6x13	35°	3	1	3.3	KBRD-76T45-411/613
	89	3 1/2"	5x11	6x13	35°	3	1	5	KBRD-89T45-511/613
	76	3"	6x10	8x11	35°	4	1	3.3	KBRD-76T45-610/811
	89	3 1/2"	6x11	8x12	35°	4	1	5	KBRD-89T45-611/812
	102	4"	6x12	8x13	35°	4	1	7	KBRD-102T45-612/813

Retrac bit, Drop center									
	76	3"	6x10	8x11	35°	4		2.5	KBRD-76T45-610/811
	89	3 1/2"	6x11	8x12	35°	4		3.2	KBRD-89T45-611/812

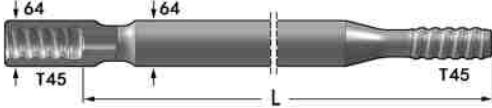
Reaming bit, T45									
	127	5"	6x14	8x14	35°	4	-	6.9	KRB-127T45-614/814
	152	6"	6x14	8x14	35°	4	-	9.2	KRB-152T45-614/814

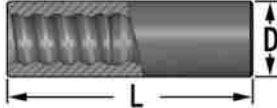
Extension rod, T45-Round 46-T45						
Drill Rods	Length		Diameter		Weight kg	Part no.
	mm	ft/in	mm	inch		
	3050	10 '	45	1 3/4"	34.2	KMM-T45-R46-T45-3050
	3660	12 '	45	1 3/4"	41.0	KMM-T45-R46-T45-3660
	4270	14 '	45	1 3/4"	47.8	KMM-T45-R46-T45-4270
	4880	16 '	45	1 3/4"	54.9	KMM-T45-R46-T45-4880
	6100	20 '	45	1 3/4"	68.9	KMM-T45-R46-T45-6100

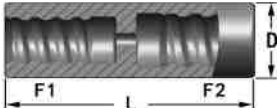
MF-rod, T45-Round 46-T45						
	1525	5 '	45	1 3/4"	18.7	KMF-T45-R46-T45/65-1525
	1830	6 '	45	1 3/4"	22.1	KMF-T45-R46-T45/65-1830
	3050	10 '	45	1 3/4"	35.8	KMF-T45-R46-T45/65-3050
	3660	12 '	45	1 3/4"	42.6	KMF-T45-R46-T45/65-3660
	4270	14 '	45	1 3/4"	49.4	KMF-T45-R46-T45/65-4270
	6100	20 '	45	1 3/4"	70.0	KMF-T45-R46-T45/65-6100

Bench & Long Hole Drilling Tools

T45(1 3/4") SERIES

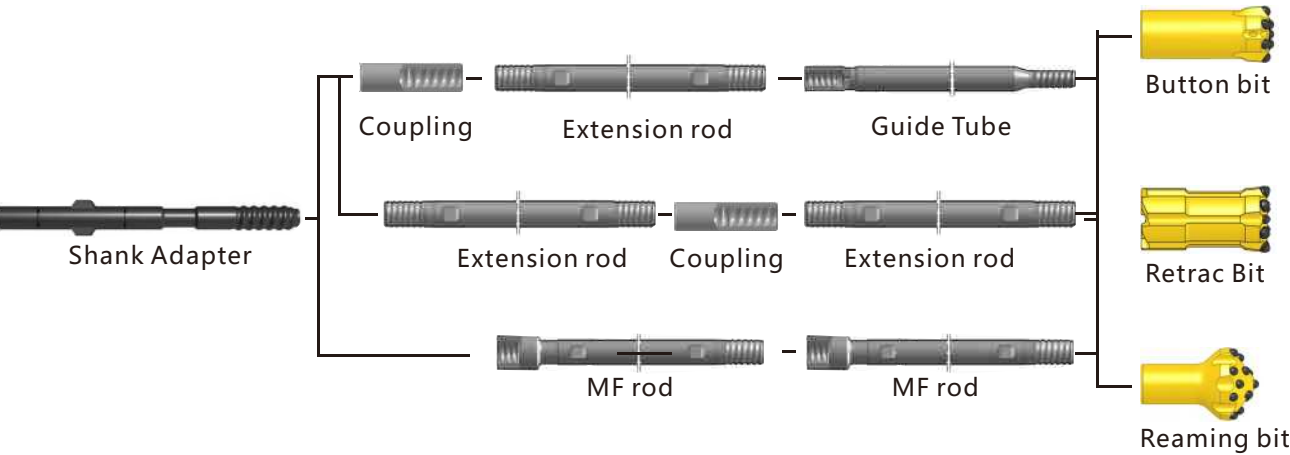
Guide tube						
Drill Rods	Length		Diameter		Weight kg	Part no.
	mm	ft/in	mm	inch		
	1220	4 '	64	2 1/2"	20.1	KGT-T45-G64-T45/64-1220
	1525	5 '	64	2 1/2"	21.8	KGT-T45-G64-T45/64-1525
	1830	6 '	64	2 1/2"	26.0	KGT-T45-G64-T45/64-1830
	3660	12 '	64	2 1/2"	49.9	KGT-T45-G64-T45/64-3660
	3660	12 '	76	3"	79.9	KGT-T45-G76-T45/76-3660

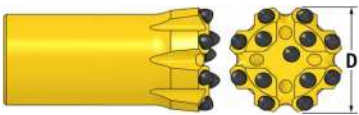
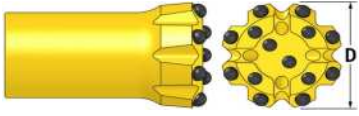
Coupling							
	T45	210	8 1/8"	63	2 15/32"	2.7	KCC-T45-D63-210
	T45	210	8 1/8"	66	2 5/8"	3.2	KCC-T45-D66-210

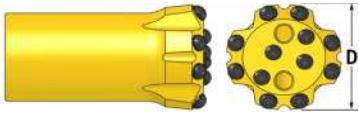
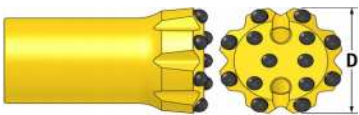
Coupling							
	T45-T38	215	8 1/2"	63	2 1/2"	3.4	KCC-T45/T38-D63-215
	T45-T51	240	9 1/2"	72	2 7/8"	5	KCC-T45/T51-D72-240

Bench & Long Hole Drilling Tools

T51(2") SERIES

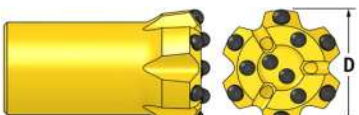


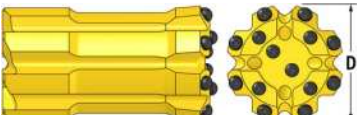
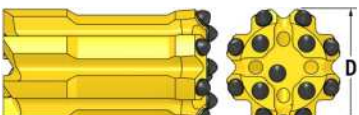
Button bit									
Drill Bits	Diameter		Buttons,mm		Angle	Flushing hole		Weight kg	Part NO.
	mm	in	Front NO Size	Gauge NO Size		Front	Gauge		
	89	3 1/2"	5x13	8x13	35°	4	-	4.8	KB-89T51-513/813
	89	3 1/2"	5x12	8x12	35°	4	-	4.8	KB-89T51-512/812
	102	4"	6x12	8x13	35°	4	-	6.8	KB-102T51-612/813
	102	4"	6x12	8x13	40°	4	-	6.8	KB-102T51-612/813
	115	4 1/2"	6x13	8x13	35°	4	-	6	KB-115T51-612/813
	115	4 1/2"	6x13	8x14	35°	4	-	6	KB-115T51-612/814

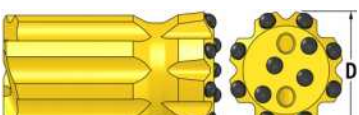
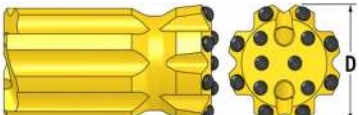
Button bit, Flat face									
	89	3 1/2"	4x13	8x13	40°	2	-	3.6	KBF-89T51-413/813
	102	4"	4x14	8x14	40°	2	-	5	KBF-102T51-414/814
	89	3 1/2"	6x11	8x12	35°	2	-	3.6	KBF-89T51-611/812
	89	3 1/2"	6x11	8x12	40°	2	-	3.6	KBF-89T51-611/812
	102	4"	6x12	8x13	35°	2	-	5	KBF-102T51-612/813
	102	4"	6x12	8x13	40°	2	-	5	KBF-102T51-612/813
	115	4 1/2"	6x13	8x13	35°	2	-	6	KBF-115T51-613/813
	115	4 1/2"	6x13	8x14	35°	2	-	6	KBF-115T51-613/814
	89	3 1/2"	7x11	9x11	35°	3	-	3.6	KBF-89T51-711/911
	102	4"	7x12	9x12	35°	3	-	5	KBF-102T51-712/912
	102	4"	7x12	9x13	35°	3	-	5	KBF-102T51-712/913
	115	4 1/2"	7x13	9x13	35°	3	-	6	KBF-115T51-713/913
	115	4 1/2"	7x13	9x14	35°	3	-	6	KBF-115T51-713/914

Bench & Long Hole Drilling Tools

T51(2") SERIES

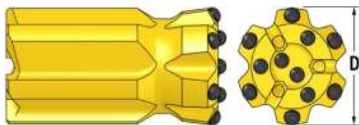
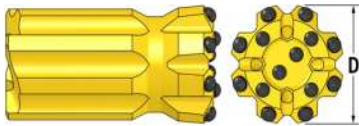
Button bit, Drop center									
Drill Bits	Diameter		Buttons,mm		Angle	Flushing hole		Weight kg	Part NO.
	mm	in	Front NO x Size	Gauge NO x Size		Front	Gauge		
	89	3 1/2"	5x11	6x13	35°	3	1	3.5	KBD-89T51-511/613
	102	4"	5x13	6x14	35°	3	1	5	KBD-102T51-513/614
	102	4"	5x13	6x14	35°	3	1	5	KBD-102T51-513/614
	89	3 1/2"	6x11	8x12	35°	4	1	3.6	KBD-89T51-611/812
	89	3 1/2"	6x11	8x12	40°	4	1	3.6	KBD-89T51-611/812
	102	4"	6x12	8x13	35°	4	1	5	KBD-102T51-612/813
	102	4"	6x12	8x13	40°	4	1	5	KBD-102T51-612/813
	115	4 1/2"	6x13	8x13	35°	4	1	6	KBD-115T51-613/813
	115	4 1/2"	6x13	8x14	35°	4	1	6	KBD-115T51-613/814
	115	4 1/2"	6x13	8x14	40°	4	1	6	KBD-115T51-613/814
	127	5"	6x14	8x14	35°	4	1	6.8	KBD-127T51-614/814

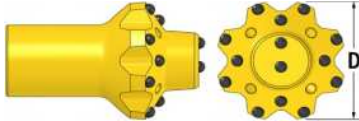
Retrac bit, Drop center									
	89	3 1/2"	5x13	8x13	35°	4	-	4.5	KBRD-89T51-513/813
	89	3 1/2"	5x13	8x13	40°	4	-	4.5	KBRD-89T51-513/813
	89	3 1/2"	5x12	8x12	35°	4	-	4.5	KBRD-89T51-512/812
	102	4"	6x12	8x13	35°	4	-	6.2	KBRD-102T51-612/813
	102	4"	6x12	8x13	40°	4	-	6.2	KBRD-102T51-612/813
	115	4 1/2"	6x13	8x13	35°	4	-	8.4	KBRD-115T51-613/813
	115	4 1/2"	6x13	8x14	35°	4	-	8.4	KBRD-115T51-613/814
	115	4 1/2"	6x13	8x14	35°	4	-	8.4	KBRD-115T51-613/814

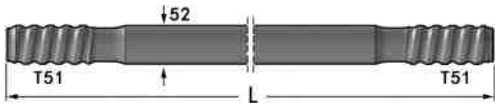
Retrac bit, Drop center									
	89	3 1/2"	4x13	8x13	40°	2	-	5	KBRD-89T51-413/813
	102	4"	4x14	8x14	40°	2	-	7	KBRD-102T51-414/814
	89	3 1/2"	6x11	8x12	35°	2	-	5	KBRD-89T51-611/812
	89	3 1/2"	6x11	8x12	40°	2	-	5	KBRD-89T51-611/812
	102	4"	6x12	8x13	35°	2	-	7	KBRD-102T51-612/813
	102	4"	6x12	8x13	40°	2	-	7	KBRD-102T51-612/813
	115	4 1/2"	6x13	8x13	35°	2	-	9.5	KBRD-115T51-613/813
	115	4 1/2"	6x13	8x14	35°	2	-	9.5	KBRD-115T51-613/814
	89	3 1/2"	7x11	9x11	35°	3	-	5	KBRD-89T51-711/911
	89	3 1/2"	7x11	9x12	35°	3	-	5	KBRD-89T51-711/912
	102	4"	7x12	9x12	35°	3	-	7	KBRD-102T51-712/912
	102	4"	7x12	9x13	35°	3	-	7	KBRD-102T51-712/913
	115	4 1/2"	7x13	9x13	35°	3	-	9.5	KBRD-115T51-713/913
	115	4 1/2"	7x13	9x14	35°	3	-	9.5	KBRD-115T51-713/914
	115	4 1/2"	7x13	9x14	35°	3	-	9.5	KBRD-115T51-713/914

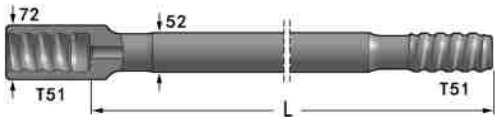
Bench & Long Hole Drilling Tools

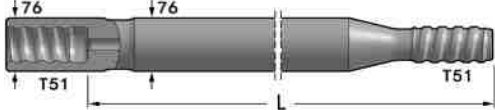
T51(2") SERIES

Retrac bit, Drop center									
Drill Bits	Diameter		Buttons,mm		Angle	Flushing hole		Weight kg	Part NO.
	mm	in	Front NO x Size	Gauge NO x Size		Front	Gauge		
	89	3 1/2"	5x11	6x13	35°	3	1	5	KBRD-89T51-511/613
	102	4"	5x13	6x14	35°	3	1	7	KBRD-102T51-513/614
	89	3 1/2"	6x11	8x12	35°	4	1	5	KBRD-89T51-611/812
	89	3 1/2"	6x11	8x12	40°	4	1	5	KBRD-89T51-611/812
	102	4"	6x12	8x13	35°	4	1	7	KBRD-102T51-612/813
	102	4"	6x12	8x13	40°	4	1	7	KBRD-102T51-612/813
	115	4 1/2"	6x13	8x13	35°	4	1	9.5	KBRD-115T51-613/813
	115	4 1/2"	6x13	8x14	35°	4	1	9.5	KBRD-115T51-613/814
	115	4 1/2"	6x13	8x14	40°	4	1	9.5	KBRD-115T51-613/814
	127	5"	6x14	8x14	35°	4	1	11.5	KBRD-127T51-614/814

Reaming bit, T51									
	Diameter		Buttons,mm		Angle	Flushing hole		Weight kg	Part NO.
	mm	in	Front NO x Size	Gauge NO x Size		Front	Gauge		
	127	5"	6x14	8x14	35°	4	-	8	KRB-127T51-614/814
	152	6"	6x14	8x14	35°	4	-	11	KRB-152T51-614/814

Extension rod, T51-Round 52-T51						
Drill Rods	Length		Diameter		Weight kg	Part NO.
	mm	ft/in	mm	inch		
	1830	6 '	51	2"	25.3	KMM-T51-R52-T51-1830
	3660	12 '	51	2"	50.9	KMM-T51-R52-T51-3660
	4270	14 '	51	2"	59.4	KMM-T51-R52-T51-4270
	6100	20 '	51	2"	84.8	KMM-T51-R52-T51-6100

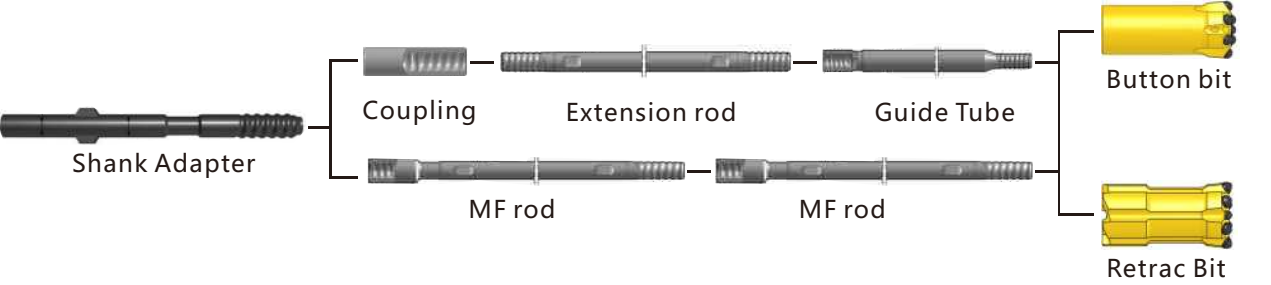
MF-rod, T51-Round 52-T51						
Drill Rods	Length		Diameter		Weight kg	Part NO.
	mm	ft/in	mm	inch		
	1525	5 '	51	2"	23.8	KMF-T51-R52-T51/72-1525
	1830	6 '	51	2"	28.1	KMF-T51-R52-T51/72-1830
	3050	10 '	51	2"	45.0	KMF-T51-R52-T51/72-3050
	3660	12 '	51	2"	53.5	KMF-T51-R52-T51/72-3660
	4270	14 '	51	2"	62.0	KMF-T51-R52-T51/72-4270
	6100	20 '	51	2"	87.4	KMF-T51-R52-T51/72-6100

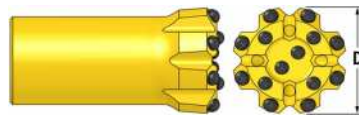
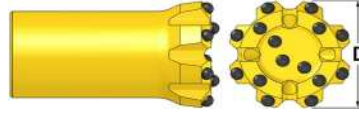
MF-rod, T51-Round 52-T51						
Drill Rods	Length		Diameter		Weight kg	Part NO.
	mm	ft/in	mm	inch		
	1830	6 '	76	3"	40.0	KGT-T51-G76-T51/76-1830
	3660	12 '	76	3"	79.1	KGT-T51-G64-T51/76-3660
	3660	12 '	87	3 1/2"	90.9	KGT-T51-G87-T51/87-3660

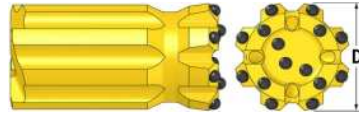
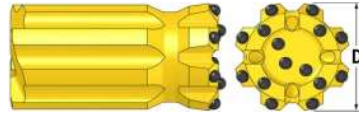
Coupling							
	T51	235	8 7/8"	72	2 7/8"	4.0	KCS-T51-D72-235
	T51	235	8 7/8"	77	3 1/32"	4.6	KCS-T51-D77-235

Bench & Long Hole Drilling Tools

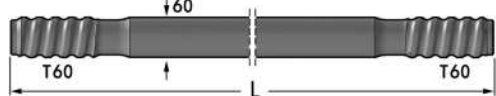
GT60(2 3/8") SERIES



Button bit									
Drill Bits	Diameter		Buttons,mm		Angle	Flushing hole		Weight kg	Part NO.
	mm	in	Front NO x Size	Gauge NO x Size		Front	Gauge		
	92	3 5/8"	6x12	8x14	35°	4	-	5.2	KBD-92T60-612/814
	96	3 3/4"	6x12	8x14	35°	4	-	5.3	KBD-96T60-612/814
	102	4"	6x13	8x13	35°	4	-	6.4	KBD-102T60-613/813
	115	4 1/2"	6x13	8x14	35°	4	-	7.3	KBD-115T60-613/814
	127	5"	7x14	8x16	35°	4	-	8.9	KBD-127T60-714/816
	140	5 1/2"	7x16	8x16	35°	4	-	12.1	KBD-140T60-716/816
	152	6"	7x16	8x16	35°	4	-	13.6	KBD-152T60-716/816

Retrac bit, Drop center									
	Diameter		Buttons,mm		Angle	Flushing hole		Weight kg	Part NO.
	mm	in	Front NO x Size	Gauge NO x Size		Front	Gauge		
	92	3 5/8"	6x12	8x14	35°	4	-	6.1	KBRD-92T60-612/814
	96	3 3/4"	6x12	8x14	35°	4	-	6.2	KBRD-96T60-612/814
	102	4"	6x13	8x13	35°	4	-	8	KBRD-102T60-613/813
	115	4 1/2"	6x13	8x14	35°	4	-	9.4	KBRD-115T60-613/814
	127	5"	7x14	8x16	35°	4	-	13.1	KBRD-127T60-714/816
	140	5 1/2"	7x16	8x16	35°	4	-	16.1	KBRD-140T60-716/816

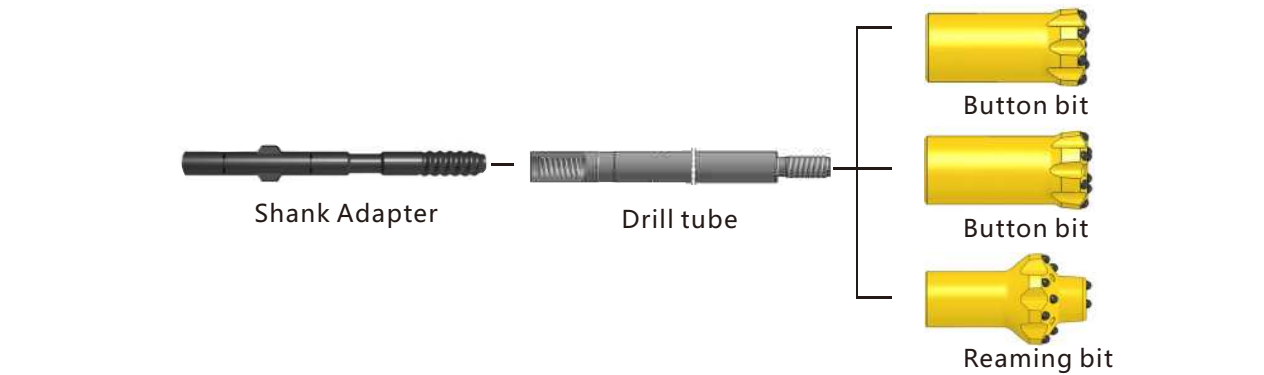
MF Rod, T60-Round 60-T60						
Drill Rods	Length		Diameter		Weight kg	Part NO.
	mm	ft/in	mm	inch		
	3660	12 '	60	2 3/8"	73.0	KMF-T60-R60-T60-3660
	4265	14 '	60	2 3/8"	82.0	KMF-T60-R60-T60-4265
	6095	20 '	60	2 3/8"	110.0	KMF-T60-R60-T60-6095

Extension Rod, T60-Round 60-T60						
Drill Rods	Length		Diameter		Weight kg	Part NO.
	mm	ft/in	mm	inch		
	3660	12 '	60	2 3/8"	73.0	KMM-T60-R60-T60-3660
	4265	14 '	60	2 3/8"	82.0	KMM-T60-R60-T60-4265
	6095	20 '	60	2 3/8"	110.0	KMM-T60-R60-T60-6095

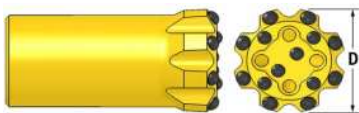
Coupling							
	T60	315	1' 3/8"	85	3 11/32"	7.9	KCS-T60-D85-315
	T60	315	1' 3/8"	89	3 1/2"	8.2	KCS-T60-D89-315

Bench & Long Hole Drilling Tools

ST58(2 1/4") SERIES



Button bit									
Drill Bits	Diameter		Buttons,mm		Angle	Flushing hole		Weight kg	Part NO.
	mm	in	Front NO x Size	Gauge NO x Size		Front	Gauge		

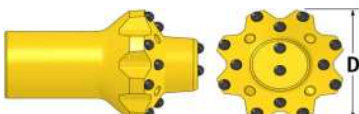


89	3 1/2"	6x12	8x12	35°	4	-	4.1	KB-89ST58-612/812
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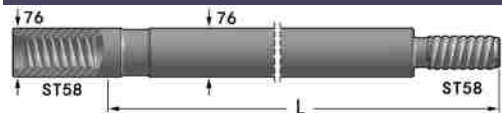
Button bit, Heavy Duty									
	89	3 1/2"	6x12	8x14	35°	2	-	4.5	KB-89ST58-612/814



Reaming bit, ST58										
		152	6"	6x14	8x14	35°	4	-	13	KRB-152ST58-614/814



Drill tube, ST58-Round 76-ST58							
Drill Tubes	Length		Diameter		Weight kg		Part NO.
	mm	ft/in	mm	inch			



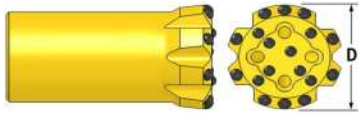
1525	5 '	76	3 "	33.2	KDT-ST58-G76-ST58/76-1525
1830	6 '	76	3 "	41	KDT-ST58-G76-ST58/76-1830

Bench & Long Hole Drilling Tools

ST68(2 3/4") SERIES



Button bit									
Drill Bits	Diameter		Buttons,mm		Angle	Flushing hole		Weight kg	Part NO.
	mm	in	Front NO x Size	Gauge NO x Size		Front	Gauge		

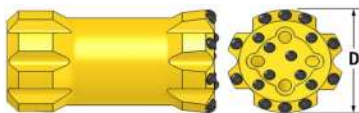


102	4"	8x12	10x12	35°	4	-	5.2	KB-102ST68-812/1012
115	4 1/2"	8x14	10x14	35°	4	-	5.9	KB-115ST68-814/1014

Button bit									
	102	4"	6x13	8x14	35°	2	-	5.5	KB-102ST68-613/814



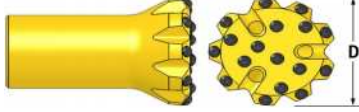
Button bit, Retrac									
	102	4"	8x12	10x12	35°	4	–	6.2	KBR-102ST68-812/1012
	115	4 1/2"	8x14	10x14	35°	4	–	8.4	KBR-115ST68-814/1014



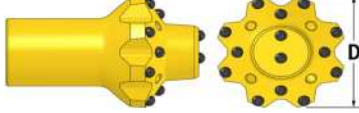
102	4"	7x12	9x12	35°	3	-	6.2	KBR-102ST68-712/912
115	4 1/2"	7x13	9x13	35°	3	-	8.4	KBR-115ST68-713/913



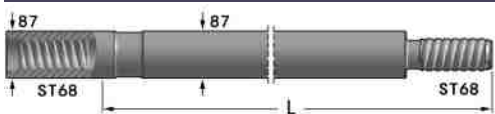
Button bitt, ST68									
	152	6"	8x16	9x16	35°	3	-	9.8	KB-152ST68-816/916



Reaming bit, ST68									
	152	6"	6x14	8x14	35°	4	-	14	KRB-152ST68-614/814



Drill tube, ST68-Round 87-ST68							
Drill Rods	Length		Diameter		Weight kg		Part no.
	mm	ft/in	mm	inch			



1525	5 '	87	3 1/2"	40	KDT-ST68-G87-ST68/87-1525
1830	6 '	87	3 1/2"	47	KDT-ST68-G87-ST68/87-1830



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Shank Adapters

ATLAS COPCO / EPIROC

BBC43, 44, 45, 100					
Type	Thread (mm)	Length (mm)	Dia (mm)	Weight (kg)	Part no.
	R32	380	32	2	KSA-BBC43-32R32-380



BBC51, 52, 54, 120					
	R32	380	38	2.6	KSA-BBC51-38R32-380
	T38	390	38	3.1	KSA-BBC51-38T38-390



BBE57						T38	537	45	5.3	KSA-BBE57-45T38-537



COP125, 130, 131								
52.2	9	120		T38	380	38	3	KSA-COP125-38T38-380



COP1032, 1032HD					
	R32	340	45	3.4	KSA-COP1032-45T32-340
	R38	340	55	4.1	KSA-COP1032-55R38-340



COP1032					
	R32	550	45	5	KSA-COP1032-45R32-550
	R38	550	45	5.4	KSA-COP1032-45T38-550



COP1036, 1038HB					
	R32	500	38	4.1	KSA-COP1036-38R32-500
	T38	500	38	4.5	KSA-COP1036-38T38-500
	T45	500	45	5.1	KSA-COP1036-45T45-500



COP1036, 1038, 1238, 1038HD, 1238HD					
	R32	485	38	4	KSA-COP1036-38R32-485
	R38	485	38	4.2	KSA-COP1036-38R38-485
	T38	485	38	4.2	KSA-COP1036-38T38-485

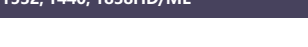


Shank Adapters

ATLAS COPCO / EPIROC

COP1036, 1038, 1238					
Type	Thread (mm)	Length (mm)	Dia (mm)	Weight (kg)	Part no.
	R32	575	38	4.7	KSA-COP1036-38R32-575
	T38	575	38	4.9	KSA-COP1036-38T38-575
	T45	575	45	5.8	KSA-COP1036-45T45-575
	T38	435	38	4	KSA-COP1036-38T38-435



COP1432, 1532, 1440, 1838HD/ME					
	R32	435	38	3.8	KSA-COP1432-38R32-435
	R38	435	38	3.9	KSA-COP1432-38R38-435
	T35	435	38	3.8	KSA-COP1432-38T35-435
	T38	435	38	3.9	KSA-COP1432-38T38-435
	R32	525	38	4.1	KSA-COP1432-38R32-525
	T35	525	38	4.2	KSA-COP1432-38T35-525
	T38	525	38	4.4	KSA-COP1432-38T38-525



COP1432 Female					
	R32	341	55	4.7	KSA-COP1432-55R32-341
	R38	341	55	4.4	KSA-COP1432-55R38-341



COP1132					
	R32	500	35	3.1	KSA-COP1132-35R32-500
	TC35	410	35	2.6	KSA-COP1132-35TC35-500



COP1838MUX/HUX				
	TC35	730	52	9.5
	T38	730	52	9.6
	T45	730	52	9.9



COP1440, 1550, 1838ME/HE, 1838					
	R32	525	52	5.7	KSA-COP1440-52R32-525
	T38	525	52	5.9	KSA-COP1440-52T38-525
	TC35	525	52	5.8	KSA-COP1440-52TC35-525
	T45	525	52	6.1	KSA-COP1440-52T45-525
	T51	525	52	6.5	KSA-COP1440-52T51-525



COP1550EX, 1838EX					
	T38	730	60	9.8	KSA-COP1550EX-60T38-730
	T45	730	60	10.2	KSA-COP1550EX-60T45-730



Shank Adapters

Shank Adapters

ATLAS COPCO / EPIROC

COP1840HE, 1850					
Type	Thread (mm)	Length (mm)	Dia (mm)	Weight (kg)	Part no.
	T35	565	52	6.6	KSA-COP1840HE-52T35-565
	T38	565	52	6.7	KSA-COP1840HE-52T38-565
	T45	565	52	6.9	KSA-COP1840HE-52T45-565
	T51	565	52	7.2	KSA-COP1840HE-52T51-565
COP1840HEX, 1850EX					
	T45	770	60	10.8	KSA-COP1840HEX-60T45-770
	T51	770	60	10.9	KSA-COP1840HEX-60T51-770
COP2150, 2550					
	T51	770	52	9.9	KSA-COP2150-52T51-770
COP2160, 2560					
	T51	770	60	11.2	KSA-COP2160-60T51-770
COP2160EX					
	T45	770	63	13.2	KSA-COP2160EX-63T45-770
	T51	770	63	13.3	KSA-COP2160EX-63T51-770
COP4050					
	T51	605	52	8.9	KSA-COP4050-52T51-605

SANDVIK

HL300					
Type	Thread (mm)	Length (mm)	Dia (mm)	Weight (kg)	Part no.
	R32	400	32	2.6	KSA-HL300-32R32-400
HL300S					
	R32	245	45	2.6	KSA-HL300-45R32-245
L400, L410, L500, L510, L550					
	R32	380	32	2.1	KSA-HL400-32R32-380
HLR438L, 438T					
	R32	380	38	2.7	KSA-HLR438-38R32-380
	T38	400	38	3.3	KSA-HLR438-38T38-400
HLR438LS, 438TS, 538, 538L, L550S					
	R32	450	38	3.7	KSA-HLR438-38R32-450
	R38	450	38	4.1	KSA-HLR438-38R38-450
	T38	455	38	4	KSA-HLR438-38T38-450
	T38	495	38	4.7	KSA-HLR438-38T38-495
HL500, 510					
	R32	550	45	5.4	KSA-HL500-45R32-550
	T38	550	45	5.6	KSA-HL500-45T38-550
	T45	550	45	5.9	KSA-HL500-45T45-550
HL500S, 510S, 510B, 510LH					
	R32	460	38	3.9	KSA-HL500-38R32-460
	R38	460	38	4.2	KSA-HL500-38R38-460
	T38	460	38	4	KSA-HL500-38T38-460
	R38	500	38	4.4	KSA-HL500-38R38-500
	T38	500	38	4.3	KSA-HL500-38T38-500
HL500F, 520F					
	R32	350	45	3.9	KSA-HL500-45R32-350
HL550SUPER, 560SUPER, 510S					
	R32	500	45	5.2	KSA-HL550-45R38-500
	T38	500	45	5.3	KSA-HL550-45T38-500

Shank Adapters

SANDVIK

HLX5, HLX5T					
Type	Thread (mm)	Length (mm)	Dia (mm)	Weight (kg)	Part no.
	R32	500	45	5.1	KSA-HLX5-45R32-500
	T38	500	45	5.3	KSA-HLX5-45T38-500
	R38	500	45	5.3	KSA-HLX5-45R38-500
	R32	575	45	5.4	KSA-HLX5-45R32-575
	T38	575	45	5.7	KSA-HLX5-45T38-575
	T45	575	45	6.2	KSA-HLX5-45T45-575
HL600, HL600S					
	R32	600	45	6.3	KSA-HL600-45R32-600
	T38	600	45	5.9	KSA-HL600-45T38-600
	T45	600	45	6.5	KSA-HL600-45T45-600
	T38	525	45	5.5	KSA-HL600-45T38-525
	T45	525	45	5.8	KSA-HL600-45T45-525
HL600					
	T45	650	52	7.6	KSA-HL600-52T45-650
	T51	650	52	8.1	KSA-HL600-52T51-650
HL645					
	T38	600	45	6.6	KSA-HL645-45T38-600
	T45	600	45	6.9	KSA-HL645-45T45-600
HL650, HL700, HL700T, HL710, HL800T					
	T38	600	45	7	KSA-HL650-45T38-600
	T45	600	45	7.2	KSA-HL650-45T45-600
HL650, HL700, HL700PE, HL700S, HL710, HL710S, HL710PE, HL710SPE, HL800T, HL800PE					
	T38	600	52	8	KSA-HL650-52T38-600
	T45	600	52	8.5	KSA-HL650-52T45-600
	T51	600	52	8.5	KSA-HL650-52T51-600
HL850S					
	T45	670	52	9.5	KSA-HL850-52T45-670
HL1000, HL1000S					
	T45	670	52	9.7	KSA-HL1000-52T45-670
	T51	670	52	10	KSA-HL1000-52T51-670
	T45	590	52	8.9	KSA-HL1000-52T45-590
	T51	590	52	9.3	KSA-HL1000-52T51-590

Shank Adapters

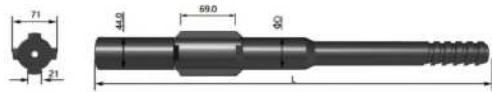
SANDVIK

HL1000					
Type	Thread (mm)	Length (mm)	Dia (mm)	Weight (kg)	Part no.
	T51	670	60	12	KSA-HL1000-60T51-670
	GT60	670	60	13	KSA-HL1000-60GT60-670
	ST58	635	80	17	KSA-HL1000-60ST58-635
HL1000PE, HL1500PE, HL1560T					
	T51	760	65	16	KSA-HL1000-65T51-760
	GT60	760	65	17	KSA-HL1000-65GT60-760
HL1500, HL1500T					
	T51	710	52	11	KSA-HL1500-52T51-710
	T51	760	60	13	KSA-HL1500-60T51-760
	GT60	760	60	15	KSA-HL1500-60GT60-760
RD520, RD525					
	T38	525	45	5.6	KSA-RD520-45T38-525

Shank Adapters

FURUKAWA

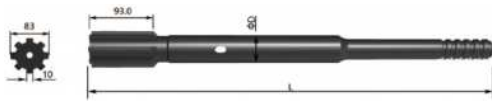
PD 200					
Type	Thread (mm)	Length (mm)	Dia (mm)	Weight (kg)	Part no.
	R32	330	45	3	KSA-PD200-45R32-330
	T38	380	45	3.6	KSA-PD200-45T38-380
	T38	446	45	4	KSA-PD200-45T38-446

PD 200R					
	T38	485	45	5.2	KSA-PD200-45T38-485

HD 300					
	T38	655	45	6	KSA-HD300-45T38-655
	T45	655	45	6.7	KSA-HD300-45T45-655

HD 609					
	T38	620	45	6	KSA-HD609-45T38-620
	T38	690	45	6.4	KSA-HD609-45T38-690
	T45	620	45	6.3	KSA-HD609-45T45-620
	T45	710	51	8.9	KSA-HD609-51T45-710

HD 612					
	T45	710	51	8.9	KSA-HD612-51T45-710

HD 709					
	T36	620	45	6.3	KSA-HD709-45T36-620

HD 712					
	T45	790	51	9.5	KSA-HD712-51T45-790
	T51	790	51	10.8	KSA-HD712-51T51-790

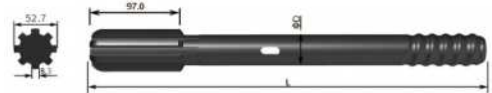
Shank Adapters

MONTABERT

H100					
Type	Thread (mm)	Length (mm)	Dia (mm)	Weight (kg)	Part no.
	T38	537	45	5.3	KSA-H100-45T38-537

HC40					
	R32	447	38	3.5	4HC40-38R32-0447-23
	R38	447	38	4	4HC40-38R38-0447-23

HC40 FEMALE					
	R32	270	52	2.9	KSA-HC40-38R32-447
	R38	320	55	4.1	KSA-HC40-38R38-447

HC80, HC90, HC105, HC120					
	R32	440	38	3.6	KSA-HC80-38R32-440
	R38	440	38	3.9	KSA-HC80-38R38-440
	T38	440	38	3.9	KSA-HC80-38T38-440
	T38	500	38	4.2	KSA-HC80-38T38-500

HC80R, HC105R, HC107R, HC108R, HC109R					
	T38	670	45	7.2	KSA-HC80-45T38-670

HC80, HC120					
	T45	490	45	5.6	KSA-HC80-45T45-490

HC120RP, HC150RP, HC155RP, HC158RP					
	T51	670	51	8.9	KSA-HC120RP-51T51-670
	T45	670	51	8.8	KSA-HC120RP-51T45-670

HC200					
	T51	840	51	13.2	KSA-HC200-51T51-840

Shank Adapters

MONTABERT

HC200A					
Type	Thread (mm)	Length (mm)	Dia (mm)	Weight (kg)	Part no.
	GT60	850	60	16.8	4HC200A-60GT60-0850-23



HC160, HC170					
	T45	805	60	14.8	4HC160-60T45-0805-23
	T51	805	60	14.9	4HC160-60T51-0805-23



INGERSOLL-RAND

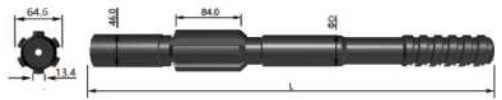
URD475, URD550, VL120, EVL130, VL140, F16					
	R32	330	45	3	4URD475-45R32-0330-23
	R32	380	45	4.1	4URD475-45R32-0380-23
	T38	380	45	3.6	4URD475-45T38-0380-23
	T38	446	45	4	4URD475-45T38-0446-23



YH65, YH80					
	T38	495	45	5.4	4YH65-45T38-0495-23
	T45	495	45	5.5	4YH65-45T45-0495-23



YH80A					
	T45	495	51	6.1	4YH80A-51T45-0495-23



YH65RP, YH70RP, YH75RP, YH80RP					
	T38	700	45	7.8	4YH65RP-45T38-0700-23
	T45	700	45	7.9	4YH65RP-45T45-0700-23



HYDRASTAR 200					
	R32	351	45	3.7	4HS200-45R32-0351-23



Auxiliary Tools

Page

Crossover Couplings

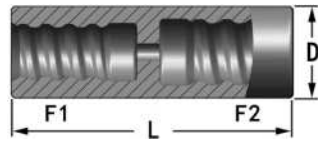
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Bit Adapters

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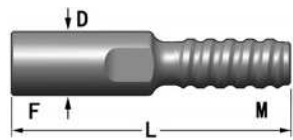
Auxiliary Tools

CROSSOVER COUPLINGS



Threads		Length		Diameter		Weight (kg)	Part No.
F1	F2	mm	inch	mm	inch		
R25	R32	160	6 1/4"	43	1 3/4"	1.2	33-R25/R32-43-160-23
R28	R32	165	6 1/2"	44	1 3/4"	1.3	33-R28/R32-44-165-23
R32	R38	170	6 3/4"	55	2 5/32"	2.0	33-R32/R38-55-170-23
T38	R32	170	6 3/4"	55	2 5/32"	2.0	33-T38/R32-55-170-23
T38	R38	185	7 9/32"	55	2 5/32"	2.1	33-T38/R38-55-185-23
T38	T45	200	7 7/8"	58	2 9/32"	2.6	33-T38/R45-58-200-23
T45	T51	225	8 7/8"	72	2 27/32"	4.0	33-T45/T51-72-225-23

BIT ADAPTERS



Wrench flat,mm	Threads		Length		Diameter		Weight	Part No.
	F	M	mm	inch	mm	inch		
38	R25	R32	185	7 9/32"	45	1 3/4"	1.3	34-R25/R32-45-185-23
38	R28	R32	230	9 1/16"	40	1 37/64"	1.4	34-R28/R32-40-230-23
38	R32	T38	225	8 55/64"	45	1 3/4"	1.9	34-R32/T38-45-225-23
38	R32	R38	225	8 55/64"	45	1 3/4"	1.8	34-R32/R38-45-225-23
38	T35	T38	250	9 27/32"	48	1 7/8"	1.9	34-T35/T38-48-250-23
44.5	R38	R32	245	9 21/32"	55	2 5/32"	2.3	34-R38/R32-55-245-23
44.5	R38	T38	245	9 21/32"	55	2 5/32"	2.4	34-R38/T38-55-245-23
44.5	T38	R32	270	10 41/64"	57	2 1/4"	2.6	34-T38/R32-57-270-23
44.5	T38	R38	280	11 1/32"	57	2 1/4"	3.2	34-T38/R38-57-280-23
44.5	T38	T45	285	11 7/32"	57	2 1/4"	3.3	34-T38/T45-57-285-23
44.5	T45	T38	265	10 7/32"	63	2 31/64"	2.9	34-T45/T38-63-265-23
44.5	T45	T51	285	11 7/32"	63	2 31/64"	3.7	34-T45/T51-63-285-23
44.5	T51	T45	285	11 7/32"	71	2 51/64"	4	34-T51/T45-71-285-23

NOTE:

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