



MSD | Your Trusted Partner for Rock Drilling Solutions

Drill Faster. Drill Longer. Drill Smarter.

The MSD name stands for "More Meters, More Value." This is our promise to you—a commitment built on a foundation of manufacturing excellence and material science. We are dedicated to providing tools that deliver superior performance, a long and reliable service life, and an exceptional return on investment for our clients.

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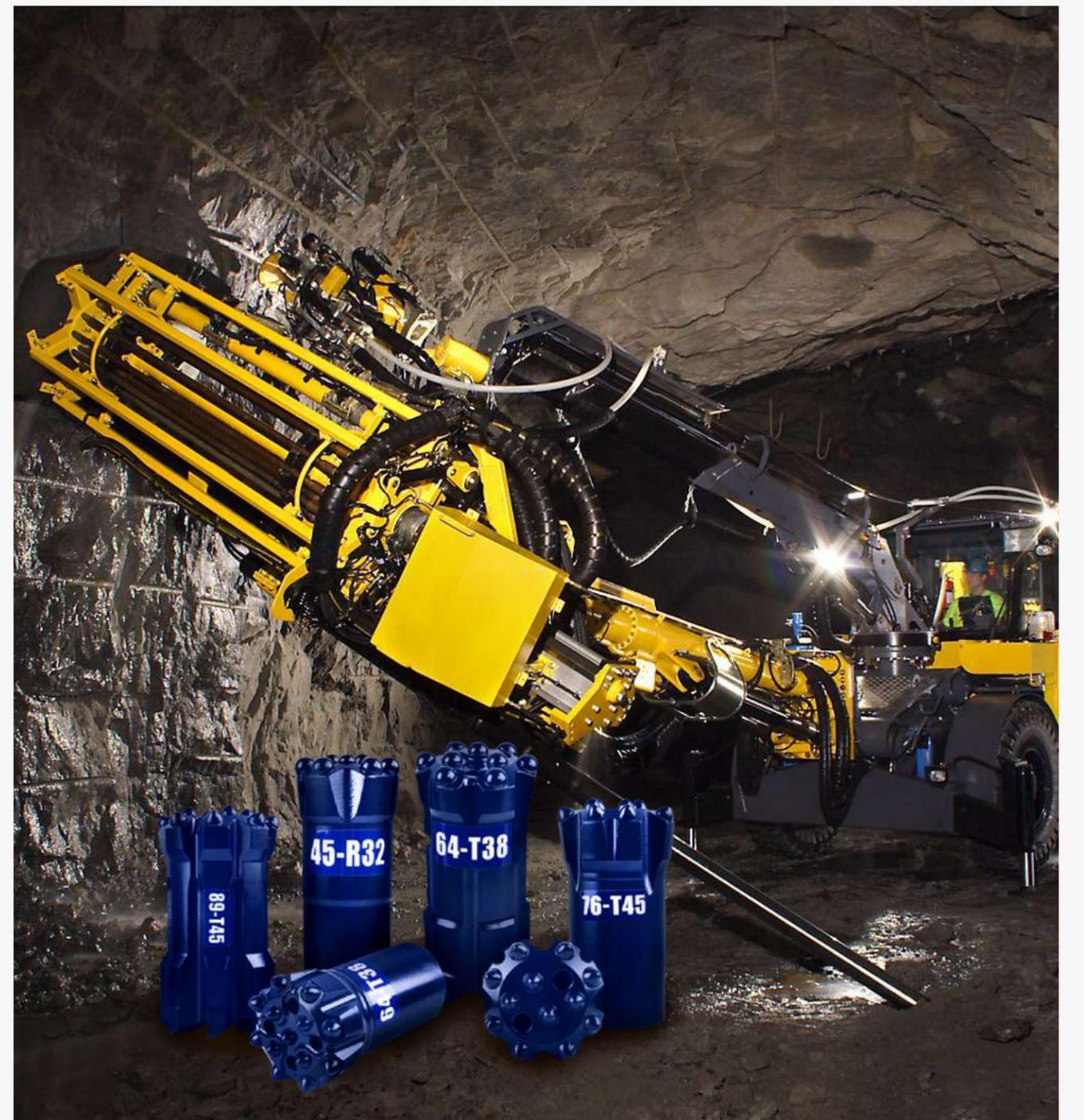


TOP HAMMER DRILLING TOOLS

— MAXIMUM PERFORMANCE IN EVERY HOLE —

Lasting Value in Every Tool

DRILLING TOOL PRODUCTION EXPERT



MSD 米数多® MSD | MSD IS A BRAND OF ZHUZHOU JINGDE MACHINERY CO., LTD.



► BRAND INTRODUCTION

At MSD, we believe true performance is engineered from the inside out. Our story begins with a deep legacy in tungsten carbide science—a two-decade commitment that has culminated in our proprietary technology. From this scientific foundation, our meticulous manufacturing process forges strength into steel, ensuring every tool we create embodies a single, uncompromising standard of excellence.

We are more than a supplier; we are a team of engineers and problem-solvers. This expertise is demonstrated across our complete toolkit—from our industry-leading Overburden Casing Systems to our full range of DTH and Top Hammer tools. We don't just sell products; we deliver intelligent solutions designed to conquer the world's most challenging geological conditions.

Ultimately, all our science and engineering expertise is focused on a single commitment to you: More Meters, More Value. This isn't just our promise; it's a proven reality, trusted by leading mining corporations, quarries, and drilling contractors in over 50 countries worldwide.

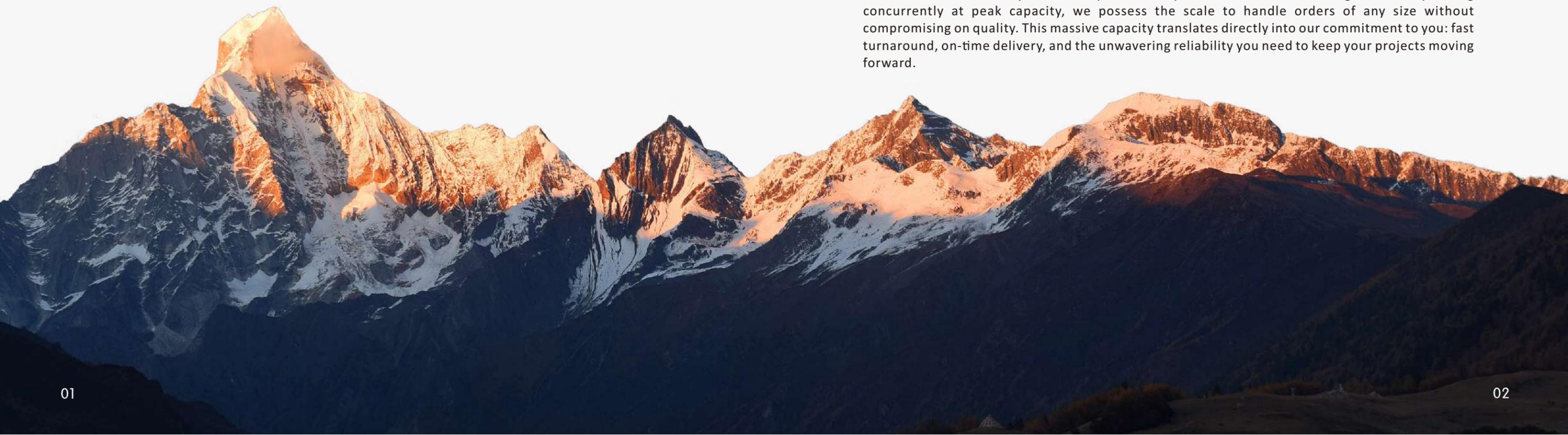
► PLANT AND EQUIPMENT



At MSD, our promise of quality is forged in steel. Our state-of-the-art facility is equipped with over 55 sets of professional equipment, headlined by advanced Turn-mill machining centers. This technology empowers us to machine every component with absolute precision, ensuring the flawless performance and reliability that our brand stands for.



Precision is matched by immense production power. With 50 machining centers operating concurrently at peak capacity, we possess the scale to handle orders of any size without compromising on quality. This massive capacity translates directly into our commitment to you: fast turnaround, on-time delivery, and the unwavering reliability you need to keep your projects moving forward.



▶ FACE DESIGN SELECTION GUIDE

▶ CENTER DROP FACE

An excellent all-around face design, particularly for ensuring straight holes. It provides a high penetration rate in soft to medium-hard rock formations and offers superior control against hole deviation, even in fractured ground. Recommended for low to medium air pressure applications.

▶ CONCAVE FACE

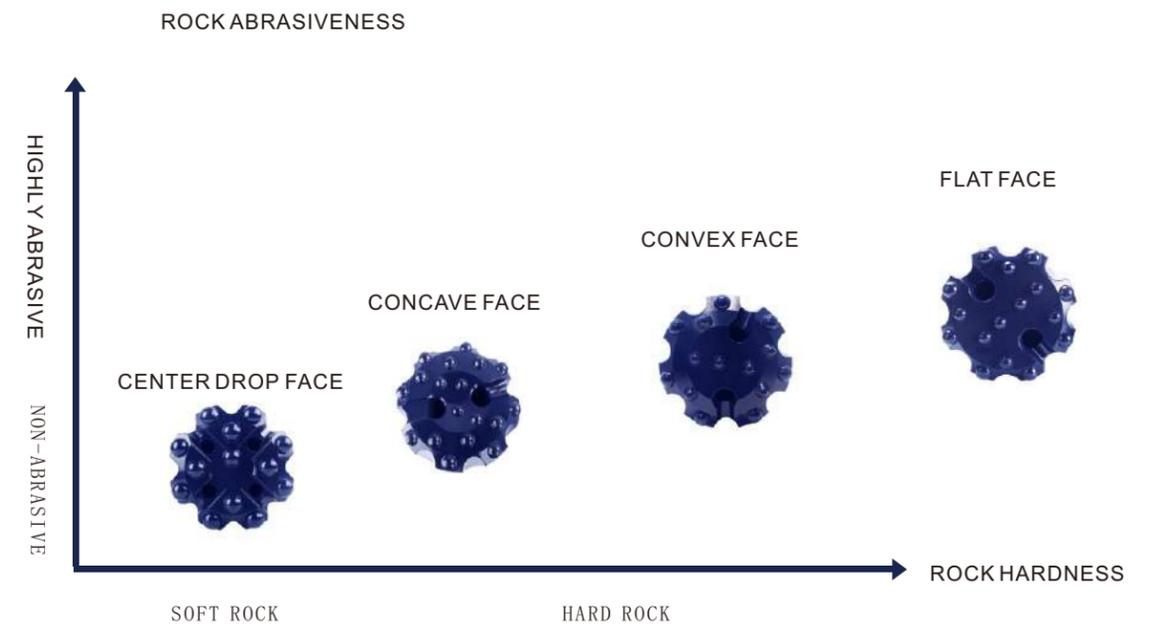
The most versatile face shape, suitable for almost all rock conditions. It excels in medium-hard and homogeneous rock, offering a superior combination of good penetration rates, excellent hole straightness, and efficient flushing.

▶ CONVEX FACE

Engineered for maximum penetration rates in soft to medium-hard, non-abrasive rock formations. The domed design reduces the load on the gauge buttons, minimizing wear and making it the ideal choice for fast drilling with low to medium air pressure.

▶ FLAT FACE

The ultimate choice for durability and wear resistance. The Flat Face design is highly effective in very hard, abrasive, and fractured rock. It is the preferred design for high air pressure applications, providing excellent service life and a good penetration rate.



➤ CARBIDE BUTTON SHAPE SELECTION GUIDE



➤ Domed/
Spherical Button



➤ Parabolic Button



➤ Ballistic Button



➤ Conical/Sharp Button

➤ DOMED/SPHERICAL BUTTON

Primarily used as gauge buttons on DTH bits due to their maximum resistance to wear. Spherical buttons are the ideal choice for drilling in highly abrasive and very hard rock formations.

➤ PARABOLIC BUTTON

A versatile, all-around performer used as both gauge and front buttons. Parabolic buttons offer a great balance of speed and wear resistance, making them highly effective in medium-hard to hard formations with moderate abrasiveness.

➤ BALLISTIC BUTTON

Engineered for high penetration rates, Ballistic buttons are primarily used as front buttons in medium-hard and less abrasive rock. In softer formations, they can also be utilized as gauge buttons to maximize drilling speed.

➤ CONICAL/SHARP BUTTON

The most aggressive shape, used as front buttons to achieve the fastest possible penetration rates in soft, non-abrasive rock. It is ideal for applications where speed is the only priority and the risk of button fracture is minimal.

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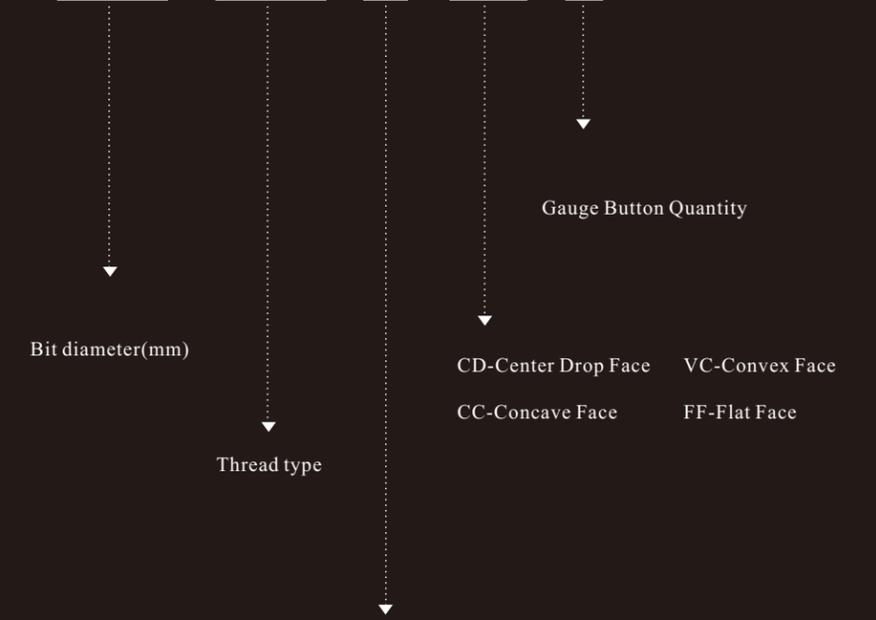


CODING INSTRUCTIONS



► CODE OF TOP HAMMER DRILLING TOOLS

89 - T45 D VC 7



- Domed/Spherical Button
- Parabolic Button
- Ballistic Button
- Conical/Sharp Button





➤ THREAD BITTON BITS

➤ PILOT REAMER, R32 THREAD, 6° TAPERED PILOT
 ➤ PILOT REAMER, R32 THREAD, 12° TAPERED PILOT



EFFICIENT PILING BIT EXPERT

Schema	Diameter		No × Button diameter,mm		Button Angel°	Flushing hole		Weight (KG)	Part No
	mm	inch	Gauge	Front		Front	Gauge		
Button bit									
	43	1 11/16"	5×10	2×9	35°	1	2	0.7	43-R32DFF5N
	45	1 3/4"	5×11	2×9	30°	1	2	0.8	45-R32DFF5N
	48	1 7/8"	5×11	2×9	35°	1	2	0.9	48-R32DFF5N
	51	2"	5×12	2×10	35°	1	2	1.0	51-R32DFF5N

Button bit									
	43	1 11/16"	6×9	2×9	40°	2	2	0.7	43-R32PFF6N
	45	1 3/4"	6×10	2×9	35°	2	2	0.8	45-R32PFF6N

Button bit									
	45	1 3/4"	6×10	3×8	25°	3	1	0.8	45-R32DFF6N
	45	1 3/4"	6×10	3×8	30°	3	1	0.8	45-R32PFF6N
	48	1 7/8"	6×10	3×9	30°	3	1	0.9	48-R32DFF6N
	48	1 7/8"	6×10	3×9	30°	3	1	0.9	48-R32PFF6N
	51	2"	6×10	3×9	35°	3	1	1.0	51-R32DFF6N
	51	2"	6×10	3×9	35°	3	1	1.0	51-R32PFF6N

Schema	Diameter		No × Button diameter,mm		Button Angel°	Flushing hole		Weight (KG)	Part No
	mm	inch	Gauge	Front		Front	Gauge		
Cross bit									
	43	1 11/16"	5×10	2×9	35°	1	2	0.7	43-R32DFF5N
	45	1 3/4"	5×11	2×9	30°	1	2	0.8	45-R32DFF5N

Reaming bit and pilot adapter, 6° taper, R32 thread									
	43	1 11/16"	6×9	2×9	40°	2	2	0.7	43-R32PFF6N
	45	1 3/4"	6×10	2×9	35°	2	2	0.8	45-R32PFF6N
	43	1 11/16"	6×9	2×9	40°	2	2	0.7	43-R32PFF6N
	45	1 3/4"	6×10	2×9	35°	2	2	0.8	45-R32PFF6N

Reaming bit and pilot adapter, 12° taper, R32 thread									
	45	1 3/4"	6×10	3×8	25°	3	1	0.8	45-R32DFF6N
	45	1 3/4"	6×10	3×8	30°	3	1	0.8	45-R32PFF6N
	48	1 7/8"	6×10	3×9	30°	3	1	0.9	48-R32DFF6N
	51	2"	6×10	3×9	35°	3	1	1.0	51-R32DFF6N

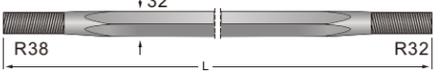


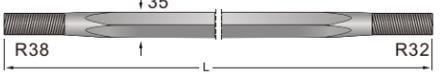
THE PROFESSIONAL'S CHOICE FOR ROCK DRILLING SOLUTIONS

▶ THREAD BITTON BITS

▶ PILOT REAMER, R32 THREAD, 6° TAPERED PILOT
▶ PILOT REAMER, R32 THREAD, 12° TAPERED PILOT

Schema	Diameter		No × Button diameter,mm		Button Angel°	Flushing hole		Weight (KG)	Part No
	mm	inch	Gauge	Front		Front	Gauge		
Reamer Bit (R32 Thread)									
	102	4"	8×12	9×12	35°	2	2	3.6	102-R32DVC8N

Schema	Length		Diameter		Weight (KG)	Part No
	mm	ft/in	mm	inch		
Drill Rod R38 - Hex.32 - R32						
	3090	10' 1 5/8"	32	1 1/4"	19.8	3090-R32/H32-R38
	3700	12' 1 5/8"	32	1 1/4"	23.7	3700-R32/H32-R38
	4310	14' 1 5/8"	32	1 1/4"	27.6	4310-R32/H32-R38
	4920	16' 1 3/4"	32	1 1/4"	31.5	4920-R32/H32-R38

Schema	Length		Diameter		Weight (KG)	Part No
	mm	ft/in	mm	inch		
Drill Rod R38 - Hex.35 - R32						
	3090	10' 1 5/8"	35	1 3/8"	24.5	3090-R32/H35-R38
	3700	12' 1 5/8"	35	1 3/8"	29.3	3700-R32/H35-R38
	4310	14' 1 5/8"	35	1 3/8"	34.1	4310-R32/H35-R38
	4920	16' 1 3/4"	35	1 3/8"	38.9	4920-R32/H35-R38

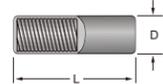
Schema	Length		Diameter		Weight (KG)	Part No
	mm	ft/in	mm	inch		
Drill Rod T38 - Hex.32 - R32						
	3700	12' 1 5/8"	32	1 1/4"	23.7	3700-R32/H32-T38
	4310	14' 1 5/8"	32	1 1/4"	27.6	4310-R32/H32-T38
	4920	16' 1 3/4"	32	1 1/4"	31.5	4920-R32/H32-T38



EFFICIENT PILING BIT EXPERT

Schema	Length		Diameter		Weight (KG)	Part No
	mm	ft/in	mm	inch		
Drill Rod T38 - Hex.35 - R32						
	3090	10' 1 5/8"	35	1 3/8"	24.5	3090-R32/H35-T38
	3700	12' 1 5/8"	35	1 3/8"	29.3	3700-R32/H35-T38
	4310	14' 1 5/8"	35	1 3/8"	34.1	4310-R32/H35-T38
	4920	16' 1 3/4"	35	1 3/8"	38.9	4920-R32/H35-T38
	5530	18' 1 3/4"	35	1 3/8"	43.7	5530-R32/H35-T38

Schema	Length		Diameter		Weight (KG)	Part No
	mm	ft/in	mm	inch		
Drill Rod R38 - Hex.35 - R32						
	3700	12' 1 5/8"	35	1 3/8"	31.3	3700-R32/H35-T38
	4310	14' 1 5/8"	35	1 3/8"	36.1	4310-R32/H35-T38
	4920	16' 1 3/4"	35	1 3/8"	40.9	4920-R32/H35-T38
	5530	18' 1 3/4"	35	1 3/8"	45.7	5530-R32/H35-T38

Schema	Length	Diameter		Weight (KG)	Part No		
		mm	inch				
Coupling sleeve							
	R38	170	6 3/4"	55	2 5/32"	1.9	170-CSR32
	T38	190	6 1/8"	55	2 5/32"	2.0	190-CSR32



THE PROFESSIONAL'S CHOICE FOR ROCK DRILLING SOLUTIONS

▶ THREAD BITTON BITS

▶ PILOT REAMER, R32 THREAD, 6° TAPERED PILOT
▶ PILOT REAMER, R32 THREAD, 12° TAPERED PILOT



EFFICIENT PILING BIT EXPERT

Schema	Diameter		No × Button diameter,mm		Button Angel°	Flushing hole		Weight (KG)	Part No
	mm	inch	Gauge	Front		Front	Gauge		

Button bit									
	64	2 1/2"	6×12	3×11	30°	3	-	1.6	64-T38DCD6N
	64	2 1/2"	6×12	3×11	35°	3	-	1.6	64-T38PCD6N
	64	2 1/2"	8×10	5×9	35°	4	-	1.7	64-T38PCD8N
	70	2 3/4"	8×11	5×10	30°	4	-	1.9	70-T38DCD8N
	76	3"	8×12	5×11	35°	4	-	2.3	76-T38DCD8N
	76	3"	8×11	5×11	40°	4	-	2.3	64-T38PCD8N
	89	3 1/2"	8×12	5×12	35°	4	-	3.2	89-T38DCD8N

▶ Button bit, Flat face

	64	2 1/2"	8×10	4×10	35°	2	-	1.6	64-T38DFF8N
	70	2 3/4"	8×11	4×11	40°	2	-	1.9	70-T38DFF8N
	76	3"	8×11	4×11	40°	2	-	2.3	76-T38DFF8N
	89	3 1/2"	8×12	4×12	40°	2	-	2.3	89-T38DFF8N
	76	3"	8×11	6×10	35°	2	-	2.3	76-T38DCD8N
	76	3"	8×11	6×10	40°	2	-	2.3	76-T38PCD8N
	89	3 1/2"	8×12	6×11	35°	2	-	3.2	89-T38DCD8N

Schema	Diameter		No × Button diameter,mm		Button Angel°	Flushing hole		Weight (KG)	Part No
	mm	inch	Gauge	Front		Front	Gauge		

Button bit, Drop center									
	64	2 1/2"	6×11	4×10	35°	3	-	1.6	64-T38DCD6N
	64	2 1/2"	6×11	4×10	35°	3	-	1.6	64-T38PCD6N
	70	2 3/4"	6×11	4×10	40°	3	-	1.9	70-T38DCD6N
	76	3"	6×13	4×11	35°	3	-	2.3	76-T38DCD6N
	76	3"	6×13	4×11	35°	3	-	2.3	76-T38PCD6N
	89	3 1/2"	6×13	5×11	35°	3	-	3.2	89-T38DCD6N
	76	3"	8×11	6×10	35°	4	-	2.3	76-T38DCD8N
	76	3"	8×11	6×10	35°	4	-	2.3	76-T38PCD8N
	89	3 1/2"	8×12	6×11	35°	4	-	3.2	89-T38DCD8N

▶ Button bit, Retrac

	64	2 1/2"	6×12	3×11	30°	3	-	2.2	64-T38DCD6R
	64	2 1/2"	6×12	3×11	35°	3	-	2.2	64-T38PCD6R
	64	2 1/2"	8×10	5×9	35°	4	-	2.2	64-T38PCD8R
	70	2 3/4"	8×11	5×10	30°	4	-	2.4	70-T38DCD8R
	76	3"	8×12	5×11	35°	4	-	2.9	76-T38DCD8R
	76	3"	8×11	5×11	40°	4	-	2.9	76-T38PCD6R
	89	3 1/2"	8×12	5×12	35°	4	-	3.2	89-T38DCD8R



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 ➤ PILOT REAMER, R32 THREAD, 12° TAPERED PILOT



EFFICIENT PILING BIT EXPERT

Schema	Diameter		No × Button diameter,mm		Button Angel°	Flushing hole		Weight (KG)	Part No
	mm	inch	Gauge	Front		Front	Gauge		

Button bit,Retrac,Flat face									
	64	2 1/2"	8×10	4×10	35°	2	-	2.2	64-T38DFF8R
	64	2 1/2"	8×10	4×10	35°	2	-	2.2	64-T38PFF8R
	70	2 3/4"	8×11	4×11	40°	2	-	2.4	70-T38DFF8R
	76	3"	8×11	6×10	35°	2	-	3.2	76-T38DFF8R
	76	3"	8×11	6×10	40°	2	-	3.2	76-T38PFF8R
	89	3 1/2"	8×12	6×11	35°	2	-	4.7	89-T38DFF8R

Button bit,Retrac,Drop center

	64	2 1/2"	6×11	4×10	35°	3	1	2.2	64-T38DCD6N
	64	2 1/2"	6×11	4×10	35°	3	1	2.2	64-T38PCD6N
	70	2 3/4"	6×11	4×10	40°	3	1	2.4	70-T38DCD6N
	76	3"	6×13	4×11	35°	3	1	3.2	76-T38DCD6N
	76	3"	6×13	4×11	35°	3	1	3.2	76-T38PCD6N
	76	3"	8×11	6×10	35°	4	1	3.2	76-T38DCD8N
	76	3"	8×11	6×10	35°	4	1	3.2	76-T38PCD8N
	89	3 1/2"	8×12	6×11	35°	4	1	4.7	89-T38DCD8N

Schema	Length		Diameter		Weight (KG)	Part No
	mm	ft/in	mm	inch		

Extension Rod, T38 - Round 39 - T38						
	1220	4'	39	1 1/2"	9.9	1220-ET38
	1525	5'	39	1 1/2"	12.4	1525-ET38
	1830	6'	39	1 1/2"	14.9	1830-ET38
	3050	10'	39	1 1/2"	24.7	3050-ET38
	3660	12'	39	1 1/2"	29.7	3660-ET38

MF Rod, T38 - Round 39 - T38

	1220	4'	39	1 1/2"	11.5	1220-MFT38
	1525	5'	39	1 1/2"	14.0	1525-MFT38
	1830	6'	39	1 1/2"	16.5	1830-MFT38
	3050	10'	39	1 1/2"	26.4	3050-MFT38
	3660	12'	39	1 1/2"	31.3	3660-MFT38
	4270	14'	39	1 1/2"	36.2	4270-MFT38



➤ THREAD BITTON BITS

➤ PILOT REAMER, R32 THREAD, 6° TAPERED PILOT
 ➤ PILOT REAMER, R32 THREAD, 12° TAPERED PILOT



EFFICIENT PILING BIT EXPERT

Schema	Diameter		No × Button diameter,mm		Button Angel°	Flushing hole		Weight (KG)	Part No
	mm	inch	Gauge	Front		Front	Gauge		
Button bit									
	70	2 3/4"	8×11	5×10	30°	4	-	2.3	70-T45DCD8N
	76	3"	8×12	5×11	35°	4	-	2.5	76-T45DCD8N
	76	3"	8×12	5×11	35°	4	-	2.5	76-T45PCD8N
	76	3"	8×11	5×11	35°	4	-	2.5	76-T45DCD8N
	89	3 1/2"	8×13	5×13	35°	4	-	3.2	89-T45DCD8N
	89	3 1/2"	8×13	5×13	40°	4	-	3.2	89-T45PCD8N
	89	3 1/2"	8×12	5×12	35°	4	-	3.2	89-T45DCD8N
		102	4"	8×13	6×12	35°	4	-	4.4
102		4"	8×13	6×12	35°	4	-	4.4	102-T45PCD8N
102		4"	8×13	6×13	35°	4	-	4.4	102-T45DCD8N

Button bit, Drop center									
Schema	Diameter		No × Button diameter,mm		Button Angel°	Flushing hole		Weight (KG)	Part No
	mm	inch	Gauge	Front		Front	Gauge		
	76	3"	6×13	4×11	35°	3	1	2.5	76-T45DCD6N
	76	3"	6×13	4×11	35°	3	1	2.5	76-T45PCD6N
	89	3 1/2"	6×13	5×11	35°	3	1	3.2	89-T45DCD6N
	89	3 1/2"	6×13	5×11	35°	3	1	3.2	89-T45PCD6N
	76	3"	8×11	6×10	35°	4	1	2.7	76-T45DFCDN
	76	3"	8×11	6×10	35°	4	1	2.7	76-T45PFCDN
	89	3 1/2"	8×12	6×11	35°	4	1	3.5	89-T45DFCDN
	89	3 1/2"	8×12	6×11	35°	4	1	3.5	89-T45PFCDN
	102	4"	8×13	6×12	35°	4	1	4.5	102-T45DFCDN
	102	4"	8×13	6×12	35°	4	1	4.5	102-T45PFCDN
	115	4 1/2"	8×13	6×13	35°	4	1	6.2	115-T45DFCDN

Schema	Diameter		No × Button diameter,mm		Button Angel°	Flushing hole		Weight (KG)	Part No
	mm	inch	Gauge	Front		Front	Gauge		
Button bit, Flat face									
	76	3"	8×11	4×11	35°	2	-	2.7	76-T45DFF8N
	76	3"	8×11	4×11	40°	2	-	2.7	76-T45PFF8N
	89	3 1/2"	8×13	4×13	40°	2	-	3.5	89-T45DFF8N
	76	3"	8×11	6×10	35°	2	-	2.7	76-T45DFF8N
	76	3"	8×11	6×10	40°	2	-	2.7	76-T45PFF8N
	89	3 1/2"	8×12	6×11	35°	2	-	3.5	89-T45DFF8N
	89	3 1/2"	8×12	6×11	40°	2	-	3.5	89-T45PFF8N
	102	4"	8×13	6×12	35°	2	-	4.5	102-T45DFF8N
	102	4"	8×13	6×12	35°	2	-	4.5	102-T45PFF8N
	89	3 1/2"	9×11	7×11	35°	3	-	3.5	89-T51DFF9N
	89	3 1/2"	9×12	7×11	35°	3	-	3.5	89-T51DFF9N
	102	4"	9×12	7×12	35°	3	-	4.5	102-T51DFF9N
	102	4"	9×13	7×12	35°	3	-	4.5	102-T51DFF9N



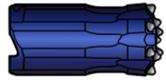
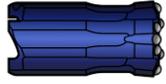
THE PROFESSIONAL'S CHOICE FOR ROCK DRILLING SOLUTIONS

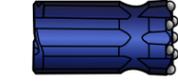
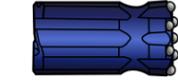
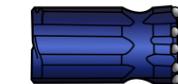
▶ THREAD BITTON BITS

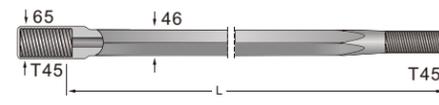
▶ PILOT REAMER, R32 THREAD, 6° TAPERED PILOT
▶ PILOT REAMER, R32 THREAD, 12° TAPERED PILOT



EFFICIENT PILING BIT EXPERT

Schema	Diameter		No × Button diameter,mm		Button Angle°	Flushing hole		Weight (KG)	Part No	
	mm	inch	Gauge	Front		Front	Gauge			
Button bit,Retrac										
		70	2 3/4"	8×11	5×10	30°	4	-	2.7	70-T45DCD8R
		76	3"	8×12	5×11	35°	4	-	3.2	76-T45DCD8R
		76	3"	8×12	5×11	35°	4	-	3.2	76-T45PCD8R
		76	3"	8×11	5×11	35°	4	-	3.2	76-T45DCD8R
		89	3 1/2"	8×13	5×13	35°	4	-	4.8	89-T45DCD8R
		89	3 1/2"	8×13	5×13	40°	4	-	4.8	89-T45PCD8R
		89	3 1/2"	8×12	5×12	35°	4	-	4.8	89-T45DCD8R
		102	4"	8×13	6×12	35°	4	-	6.8	102-T45DCD8R
		102	4"	8×13	6×13	35°	4	-	6.8	102-T45PCD8R
		102	4"	8×14	6×13	35°	4	-	6.8	102-T45DCD8R

Schema	Diameter		No × Button diameter,mm		Button Angle°	Flushing hole		Weight (KG)	Part No	
	mm	inch	Gauge	Front		Front	Gauge			
Button bit,Flat face										
		76	3"	8×11	4×11	35°	2	-	3.3	76-T45DFF8R
		76	3"	8×11	4×11	40°	2	-	3.3	76-T45PFF8R
		89	3 1/2"	8×13	4×13	40°	2	-	5.0	89-T45DFF8R
		76	3"	8×11	6×10	35°	2	-	3.3	76-T45DFF8R
		76	3"	8×11	6×10	40°	2	-	3.3	76-T45PFF8R
		89	3 1/2"	8×12	6×11	35°	2	-	5.0	89-T45DFF8R
		102	4"	8×13	6×12	35°	2	-	7.0	102-T45DFF8R
		89	3 1/2"	9×11	7×11	35°	3	-	5.0	89-T45DFF9R
		89	3 1/2"	9×12	7×11	35°	3	-	5.0	89-T45DFF9R
		102	4"	9×12	7×12	35°	3	-	7.0	102-T45DFF9R
		102	4"	9×13	7×12	35°	3	-	7.0	102-T45DFF9R

Schema	Length		Diameter		Weight (KG)	Part No
	mm	ft/in	mm	inch		
MF Rod, T45 - Round 46 - T45						
	1525	5'	45	1 3/4"	18.7	1525-MFT45
	1830	6'	45	1 3/4"	22.1	1830-MFT45
	3050	10'	45	1 3/4"	35.8	3050-MFT45
	3660	12'	45	1 3/4"	42.6	3660-MFT45
	4270	14'	45	1 3/4"	49.4	4270-MFT45
	6100	20'	45	1 3/4"	70.0	6100-MFT45



THE PROFESSIONAL'S CHOICE FOR ROCK DRILLING SOLUTIONS

➤ THREAD BITTON BITS

➤ PILOT REAMER, R32 THREAD, 6° TAPERED PILOT
 ➤ PILOT REAMER, R32 THREAD, 12° TAPERED PILOT



EFFICIENT PILING BIT EXPERT

Schema	Diameter		No × Button diameter,mm		Button Angel°	Flushing hole		Weight (KG)	Part No
	mm	inch	Gauge	Front		Front	Gauge		
Button bit,Retrac									
	89	3 1/2"	8×13	5×13	35°	4	-	3.5	89-T51DCD8N
	89	3 1/2"	8×13	5×13	40°	4	-	3.5	89-T51PCD8N
	89	3 1/2"	8×12	5×12	35°	4	-	3.5	89-T51DCD8N
	102	4"	8×13	6×12	35°	4	-	4.4	102-T51DCD8N
	102	4"	8×13	6×12	40°	4	-	4.4	102-T51PCD8N
	115	4 1/2"	8×13	6×13	35°	4	-	6.0	115-T51DCD8N
	115	4 1/2"	8×14	6×13	35°	4	-	6.0	115-T51DCD8N

Schema	Length		Diameter		Weight (KG)	Part No
	mm	ft/in	mm	inch		
Extension rod,T51-Round52-T51						
	3660	12'	51	2"	50.9	3660-ET51
	4270	14'	51	2"	59.4	4270-ET51
	6100	20'	51	2"	84.8	6100-ET51

MF rod,T51-Round52-T51						
Schema	Length		Diameter		Weight (KG)	Part No
	mm	ft/in	mm	inch		
	1525	5'	51	2"	23.8	1525-MFT51
	1830	6'	51	2"	28.1	1830-MFT51
	3050	10'	51	2"	45.0	3050-MFT51
	3660	12'	51	2"	53.5	3660-MFT51
	4270	14'	51	2"	62.0	4270-MFT51
	6100	20'	51	2"	87.4	6100-MFT51

Schema	Diameter		No × Button diameter,mm		Button Angel°	Flushing hole		Weight (KG)	Part No
	mm	inch	Gauge	Front		Front	Gauge		
Button bit,Flat face									
	89	3 1/2"	8×13	4×13	40°	2	-	3.6	89-T51DCC8N
	89	3 1/2"	8×13	4×13	40°	2	-	3.6	89-T51PCC8N
	102	4"	8×14	4×14	40°	2	-	5.0	102-T51D8N
	89	3 1/2"	8×12	6×11	35°	2	-	3.6	89-T51DFF8N
	89	3 1/2"	8×12	6×11	40°	2	-	3.6	89-T51PFF8N
	102	4"	8×13	6×12	35°	2	-	5.0	102-T51DFF8N
	102	4"	8×13	6×12	40°	2	-	5.0	102-T51PFF8N
	115	4 1/2"	8×13	6×13	35°	2	-	6.0	115-T51DFF8N
	115	4 1/2"	8×14	6×13	35°	2	-	6.0	115-T51DFF8N
		89	3 1/2"	9×11	7×11	35°	3	-	3.6
89		3 1/2"	9×12	7×11	35°	3	-	3.6	89-T51DFF9N
102		4"	9×12	7×12	35°	3	-	5.0	102-T51DFF9N
102		4"	9×13	7×12	35°	3	-	5.0	102-T51DFF9N
115		4 1/2"	9×13	7×13	35°	3	-	6.0	115-T51DFF9N
115		4 1/2"	9×14	7×13	35°	3	-	6.0	115-T51DFF9N



➤ THREAD BITTON BITS

➤ PILOT REAMER, R32 THREAD, 6° TAPERED PILOT
 ➤ PILOT REAMER, R32 THREAD, 12° TAPERED PILOT



EFFICIENT PILING BIT EXPERT

Schema	Diameter		No × Button diameter,mm		Button Angel°	Flushing hole		Weight (KG)	Part No
	mm	inch	Gauge	Front		Front	Gauge		
Button bit									
	89	3 1/2"	8×12	6×12	35°	4	-	4.1	89-ST58DCD8N
	89	3 1/2"	8×12	6×12	35°	4	-	4.1	89-ST58PCD8N

Button bit, Heavy Duty									
Schema	Diameter		No × Button diameter,mm		Button Angel°	Flushing hole		Weight (KG)	Part No
	mm	inch	Gauge	Front		Front	Gauge		
	89	3 1/2"	8×14	6×12	35°	2	-	4.5	89-HST58DCD8N
	89	3 1/2"	8×14	6×12	35°	2	-	4.5	89-HST58PCD8N

Schema	Diameter		No × Button diameter,mm		Button Angel°	Flushing hole		Weight (KG)	Part No
	mm	inch	Gauge	Front		Front	Gauge		
Reamer Bit (ST58 Thread)									
	152	6"	8×14	6×14	35°	4	-	13.0	152-RST58DVC8N

Schema	Length		Diameter		Weight (KG)	Part No
	mm	ft/in	mm	inch		
Drill Rod, ST58 - Round 76 - St58						
	1525	5'	76	3"	33.2	1525-DST28
	1830	6'	76	3"	41.0	1830-DST28



THE PROFESSIONAL'S CHOICE FOR ROCK DRILLING SOLUTIONS

▶ THREAD BITTON BITS

▶ PILOT REAMER, R32 THREAD, 6° TAPERED PILOT
▶ PILOT REAMER, R32 THREAD, 12° TAPERED PILOT



EFFICIENT PILING BIT EXPERT

Schema	Diameter		No × Button diameter,mm		Button Angle°	Flushing hole		Weight (KG)	Part No
	mm	inch	Gauge	Front		Front	Gauge		
Button bit									
	92	3 5/8"	6×12	8×14	35°	4	-	5.2	92-T60DCC10N
	96	3 3/4"	6×12	8×14	35°	4	-	5.3	96-T60DCC10N
	127	5"	7×14	8×16	35°	4	-	8.9	127-T60DCD8N
	140	3 1/2"	7×16	8×16	35°	4	-	12.1	140-T60DCD8N
	152	6"	7×16	8×16	35°	4	-	13.6	152-T60DCD8N
Button bit,Retrac									
	92	3 5/8"	6×12	8×14	35°	4	-	6.1	92-T60DCC8N
	96	3 3/4"	6×12	8×14	35°	4	-	6.2	96-T60DCC8N
	102	4"	6×13	8×13	35°	4	-	8.0	102-T60DCC8N
	115	4 1/2"	6×13	8×14	35°	4	-	9.4	115-T60DCC8N
	127	5"	7×14	8×16	35°	4	-	13.1	127-T60DCC8N
	140	5 1/2"	7×16	8×16	35°	4	-	16.1	140-T60DCC8N

Schema	Length		Diameter		Weight (KG)	Part No
	mm	ft/in	mm	inch		
MF Rod, T60 - Round 60 - T60						
	3660	12'	60	2 3/8"	70.0	3660-MT60
	4270	14'	60	2 3/8"	82.0	4270-MT60
	6100	20'	60	2 3/8"	116.0	6100-MT60

MF Rod, T60 - Round 60 - T60						
	4270	14'	60	2 3/8"	86.6	M4270-MT60

Coupling sleeve							
	T60	315	6 3/8"	85	3 11/32"	7.9	31585-CT60
	T60	315	6 3/8"	89	3 1/2"	8.2	31589-CT60

▶ THREAD BITTON BITS

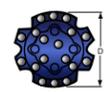
▶ PILOT REAMER, R32 THREAD, 6° TAPERED PILOT
▶ PILOT REAMER, R32 THREAD, 12° TAPERED PILOT



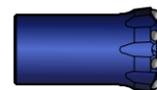
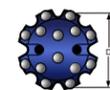
EFFICIENT PILING BIT EXPERT

Schema	Diameter		No × Button diameter,mm		Button Angel°	Flushing hole		Weight (KG)	Part No
	mm	inch	Gauge	Front		Front	Gauge		

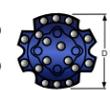
Button bit

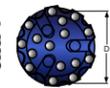
		102	4"	10×12	8×12	35°	4	-	5.2	102-ST68PCD10N
		115	4 1/2"	10×14	8×14	35°	4	-	5.9	115-ST68PCD10N

Button bit

		102	4"	8×14	6×13	35°	2	-	5.5	102-ST68DFF8N
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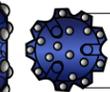
Button bit,Retrac

		102	4"	10×12	8×12	35°	4	-	6.2	102-ST68PCD10R
		115	4 1/2"	10×14	8×14	35°	4	-	8.4	115-ST68PCD10R

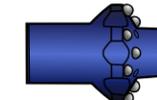
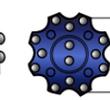
		102	4"	9×12	7×12	35°	3	-	6.2	102-ST68DCC9R
		115	4 1/2"	9×13	7×13	35°	3	-	8.4	115-ST68DCC9R

Schema	Diameter		No × Button diameter,mm		Button Angel°	Flushing hole		Weight (KG)	Part No
	mm	inch	Gauge	Front		Front	Gauge		

Collaring bit,ST68

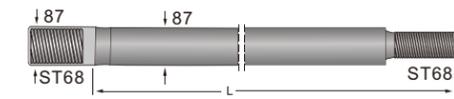
		152	6"	9×16	8×16	35°	3	-	9.8	152-CST68DFF9N
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Collaring bit,ST68

		152	6"	8×14	6×14	35°	4	-	14.0	152-RST68DVC9N
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Schema	Length		Diameter		Weight (KG)	Part No
	mm	ft/in	mm	inch		

Drill Rod, ST68 - Round 87 - St68

	1525	5'	87	3 1/2"	40.0	1525-DST68
	1830	6'	87	3 1/2"	47.0	1830-DST68



▶ THREAD BITTON BITS

▶ PILOT REAMER, R32 THREAD, 6° TAPERED PILOT
▶ PILOT REAMER, R32 THREAD, 12° TAPERED PILOT



EFFICIENT PILING BIT EXPERT

Schema	Diameter		No × Button diameter,mm		Button Angel°	Flushing hole		Weight (KG)	Part No
	mm	inch	Gauge	Front		Front	Gauge		

Button bit

		102	4"	10×12	8×12	35°	4	-	5.2	102-ST68PFF10N
		115	4 1/2"	10×14	8×14	35°	4	-	5.9	115-ST68PFF10N

Button bit

		102	4"	8×14	6×13	35°	2	-	5.5	102-ST68DFF8N
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Button bit,Retrac

		102	4"	10×12	8×12	35°	4	-	6.2	102-ST68PFF10R
		115	4 1/2"	10×14	8×14	35°	4	-	8.4	115-ST68PFF10R

		102	4"	9×12	7×12	35°	3	-	6.2	102-ST68DFF9R
		115	4 1/2"	9×13	7×13	35°	3	-	8.4	115-ST68DFF9R

Schema	Diameter		No × Button diameter,mm		Button Angel°	Flushing hole		Weight (KG)	Part No
	mm	inch	Gauge	Front		Front	Gauge		

Collaring bit,ST68

		152	6"	9×16	8×16	35°	3	-	9.8	152-CST68DFF9N
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Collaring bit,ST68

		152	6"	8×14	6×14	35°	4	-	14.0	152-RST68DFF9N
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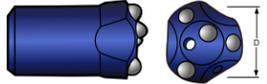
Schema	Length		Diameter		Weight (KG)	Part No
	mm	ft/in	mm	inch		

Adapter Rod, ST68 - Round 87 - St60

	1525	5'	87	3 1/2"	40.0	1525-DST68
	1830	6'	87	3 1/2"	47.0	1830-DST68

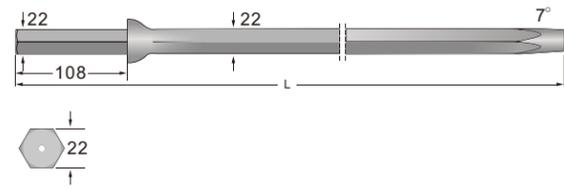


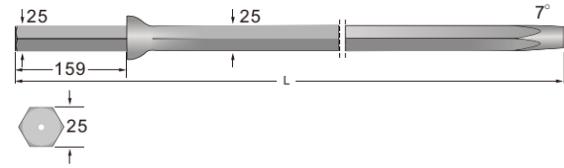
EFFICIENT PILING BIT EXPERT

Schema	Diameter		No x Button diameter,mm		Button Angel°	Flushing hole		Weight (KG)	Part No
	mm	inch	Gauge	Front		Front	Gauge		
Taper Bttton Bits (Standard Skirt) For use with 22mm (7/8") Hexagonal Rods									
	32	1 1/4"	3x8	1x8	35°	1	1	0.24	32-722PFF3
	34	1 11/32"	3x8	1x8	35°	1	1	0.26	34-722PFF3
	36	1 7/16"	3x9	1x8	35°	1	1	0.27	36-722PFF3
	38	1 1/2"	3x9	1x8	35°	1	1	0.32	38-722PFF3
	40	1 37/64"	3x9	1x8	30°	1	1	0.36	40-722PFF3
	40	1 37/64"	3x9	1x9	35°	1	1	0.36	40-722PFF3
	42	1 21/32"	3x9	1x8	30°	1	1	0.40	42-722PFF3
	42	1 21/32"	3x9	1x9	35°	1	1	0.40	42-722PFF3

Taper Bttton Bits (Long Skirt) For use with 22mm (7/8") Hexagonal Rods									
	32	1 1/4"	5x7	2x7	35°	2	1	0.24	32-722PFF5
	34	1 11/32"	5x7	2x7	35°	2	1	0.29	34-722PFF5
	36	1 7/16"	5x8	2x7	35°	2	1	0.32	36-722PFF5
	38	1 1/2"	5x8	2x7	35°	2	1	0.34	38-722PFF5
	38	1 1/2"	5x9	2x7	35°	2	1	0.34	38-722PFF5
	40	1 37/64"	5x9	2x7	35°	2	1	0.39	40-722PFF5
	41	1 5/8"	5x9	2x8	35°	2	1	0.39	41-722PFF5

Taper Bttton Bits (Long Skirt) For use with 22mm (7/8") Hexagonal Rods									
	41	1 5/8"	5x9	2x8	35°	2	1	0.39	41-725PFF5
	43	1 11/16"	5x9	2x8	35°	2	1	0.39	43-725PFF5
	45	1 3/4"	5x9	2x8	35°	2	1	0.45	45-725PFF5
	51	1 31/32"	5x10	2x9	35°	2	1	0.62	51-725PFF5

Schema	Length		Diameter		Weight (KG)	Part No
	mm	ft/in	mm	inch		
Shank Adapter, 22mm x 108mm (7/8" x 4 1/4")						
	1500	4'11"	4.68	1500-S22/180		
	2000	6'7"	6.20	2000-S22/180		
	2500	8'2"	7.73	2500-S22/180		
	3000	9'10"	9.25	3000-S22/180		
	3500	11'5"	10.78	3500-S22/180		
	4000	13'1"	12.30	4000-S22/180		
	4500	14'8"	13.83	4500-S22/180		

Schema	Length		Diameter		Weight (KG)	Part No
	mm	ft/in	mm	inch		
Shank Adapter, 22mm x 108mm (7/8" x 4 1/4")						
	4000	13'1"	16.65	4000-S25/159		
	4700	15'4"	18.9	4700-S25/159		
	5000	16'4"	22.1	5000-S25/159		
	5500	18'1"	22.1	5500-S25/159		



THE PROFESSIONAL'S CHOICE FOR ROCK DRILLING SOLUTIONS

➤ TAPER DRILL

➤ 11° TAPER CONNECTION



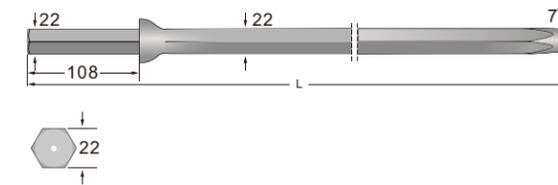
EFFICIENT PILING BIT EXPERT

Schema	Diameter		No x Button diameter,mm		Button Angel°	Flushing hole		Weight (KG)	Part No
	mm	inch	Gauge	Front		Front	Gauge		
Taper Button Bits (Short Skirt)									
	32	1 1/4"	3x8	2x7	35°	1	2	0.24	32-1122PFF3
	34	1 11/32"	3x8	1x8	35°	1	1	0.26	34-1122PFF3
	36	1 7/16"	3x9	1x8	40°	1	1	0.29	36-1122PFF3
	38	1 1/2"	3x9	2x8	40°	1	1	0.32	38-1122PFF3
	40	1 37/64"	3x9	2x8	40°	1	1	0.36	40-1122PFF3

Taper Button Bits (Short Skirt)									
	32	1 1/4"	4x7	2x7	35°	1	1	0.24	32-1122PFF4
	34	1 11/32"	4x7	2x7	35°	2	1	0.29	34-1122PFF4
	36	1 7/16"	4x8	2x7	35°	2	1	0.32	36-1122PFF4

Taper Button Bits (Short Skirt)									
	32	1 1/4"	5x7	2x7	40°	1	1	0.24	32-1122PFF5
	34	1 11/32"	5x7	2x7	35°	1	1	0.29	34-1122PFF5
	36	1 7/16"	5x8	2x7	35°	1	1	0.32	36-1122PFF5
	38	1 1/2"	5x8	2x7	35°	1	1	0.34	38-1122PFF5
	38	1 1/2"	5x9	2x7	40°	1	1	0.34	39-1122PFF5
	40	1 37/64"	5x9	2x7	35°	1	1	0.39	40-1122PFF5
	41	1 5/8"	5x9	2x8	35°	1	1	0.39	41-1122PFF5

Schema	Length		Diameter		Weight (KG)	Part No
	mm	ft/in	mm	inch		
Shank Adapter, 22mm x 108mm (7/8" x 4 1/4")						



610	2'	2.20	610-S22/108
800	3'3"	2.78	800-S22/108
1220	4'	4.06	1220-S22/108
1830	6'	5.92	1830-S22/108
2000	6'7"	6.44	2000-S22/108
2435	8'	7.76	2435-S22/108
3050	10'	9.64	3050-S22/108
3660	12'	11.50	3660-S22/108
4000	13'1"	12.54	4000-S22/108
4800	15'9"	14.98	4800-S22/108
5600	18'4"	17.42	5600-S22/108
6400	21'	19.86	6400-S22/108
7200	23'6"	22.30	7200-S22/108
8000	26'2"	24.74	8000-S22/108