



Realization of deep & Powerful Exploration
Mining Operations

Innovative Drilling Solutions

Rock Drilling Tools

About Company

BIT1 are specialized manufacturers with twenty-five years history in manufacturing rock drilling tools in Korea. Our main products are drifting and tunneling tools, bench drilling tools, down the hole drilling tools, drilling tools or coal mining and diamond wire saw and so on. The products are widely used in surface drilling, underground drifting and tunneling, quarrying, water well industry, etc.

With twenty-five years research and development, BIT1 has piled a diverse experience as a manufacturer in Rock drilling tools. We have been exported rock drilling tools to many countries such as Japan, Russia, U.S.A, Malaysia.

BIT1 consistently continues to offer high quality of products and backup services. BIT1 is always ready to serve you at any time, we look forward to growing together with you.



Patent & Certificate



History

- 1984 Established JOONG YANG MACHINERY INDUSTRY CO., LTD
- 1987 Original equipment manufacturer contract with YOUNG POONG MACHINERY INDUSTRY CO., LTD
- 1988 Subcontractors contract with WINIA MANDO (MANDO'S subsidiary - The company have made household appliances; Air conditioning refrigerator etc.)
- 1990 Engine part supplier contract with KIA MOTOR
- 1997 Move to the Cheonan factory
- 2007 Install the second factory in Gwangmyeong
- 2011 Renamed BIT1



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Flat Face Button

This design offers 24% more, total carbide area. It's actually a stronger design. Also, this bit has 4 flushing holes instead of 2 flushing holes so will provide you more good cleaning. Useful for hard rock, abrasive rock, homogeneous rock application.

Hard Rock Button

It is designed for the toughest drilling condition with impact carbides and a hardened bit body. The gauge carbides are longer to provide excellent carbide retention. Useful for hard rock, abrasive rock, homogeneous rock application.

Ballistic Button

This bit is designed for use in limestone and other soft rock formations. It looks more pointed shape for the button than spherical buttons. Useful for medium hard rock, abrasive rock, homogeneous rock application.

Drop Center Spherical Button

Normally used in broken rock formations to obtain a straighter hole. This recessed area helps to guide the bit in a straight path, resisting the tendency to follow fractures in the rock. Useful for hard rock, abrasive rock, homogeneous rock, penetration rock application.

Drop Center Ballistic Button

This bit combines the straightening characteristics of the drop center bit with the speed of ballistic buttons. Available in selected sizes in the T thread group. Useful for medium hard rock, abrasive rock, homogeneous rock, penetration rock application.

Retract Spherical Button

Designed for applications requiring very straight hole. The long bit body works very efficiently for the straight hole at the deepest & seamed rock formation. Also cutting part of the bottom of bit body, it acts as a grinder for debris that come from the rock. Useful for hard, medium hard, abrasive fissured, penetration rock application.

Retract Ballistic Button

The long bit body works very efficiently for the straight hole at the deepest & seamed rock formation. Also cutting part of the bottom of bit body, it acts as a grinder for debris that come from the rock. Tips look more pointed shape than spherical buttons. Useful for medium hard, abrasive, homogeneous, fissured, penetration rock application.

CARBIDE SHAPE

Spherical

Hard rock and ultra-hard rock layers. Effective in a rock layer which causes wear in a great degree.



Parabolic

Medium hard rock and hard rock layers.



Ballistic

Soft rock and medium hard rock layers. High drilling speed can be obtained compared with cross bit.



Conical

Limestone. The tip end is sharp and the drilling efficiency is excellent. This bit demonstrates its ability especially in limestone.



01 | Nomenclature

Button Bit



B 03 - 045 B - A1 - 1

1 2 3 4 5 6

3 BIT DIA 5 FLUSH HOLE WAY 1:0, 2:1, 3:2, 4:3, 5:4

6 1, SV, 2, IR, 3, Others

1 PRODUCT	2 Thread foem	5 BODY TYPE
B Bit	1 R25	A Flat Face
E Extension Rod	2 R28	B Drop center
D Drifter Rod	3 R32	C Dome
M M/F Rod	4 R 38	D Retract
C Coupling	5 T35	E Retract Drop
S Shank Adapter	6 T38	F Heavy duty
T Tapered Rod	7 T45	G 1*4 Type
	8 T51	H 2*3 Type
4 CARBIDE	9 T60	I 2*4 Type
S Spherical	10 Taper 6	J 2*5 Type
B Ballistic	11 Taper 7	K 2*6 Type
P Parabolic	12 Taper 11	L 3*6 Type
C Conical	13 Taper 12	M 3*6 WType

Button Bit



**Drifting &
Extension Rod**

E - R 38 F D - 3050 - A

1 2 3 4 4 5

3 DIAMETER 5 **A** Tandem Thread
B Single Thread

1 PRODUCT	2 Material Shapes	4 Thread foem
B Bit	H Hexagon	A R25
E Extension Rod	R Round	B R28
D Drifter Rod		C R32
M M/F Rod		D R38
C Coupling		E T35
S Shank Adapter		F T38
T Tapered Rod		G T45
		H T51

Coupling Sleeve

C I - FF



1 2 3

1	PRODUCT
B	Bit
E	Extension Rod
D	Drifter Rod
M	M/F Rod
C	Coupling
S	Shank Adapter
T	Tapered Rod

2	Material Shapes
1	Coupling
2	Adapter

3	Thread foem
A	R25
B	R28
C	R32
D	R38
E	T35
F	T38
G	T45
H	T51
I	T60

Shank Adapter

S A 27 - D 495 S



1 2

2	DRIFTER TYPE
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1	PRODUCT
B	Bit
E	Extension Rod
D	Drifter Rod
M	M/F Rod
C	Coupling
S	Shank Adapter
T	Tapered Rod

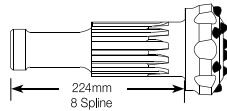
3 4 5

4	LENGTH
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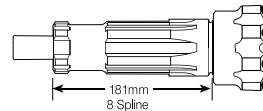
3	Thread foem
A	R25
B	R28
C	R32
D	R38
E	T35
F	T38
G	T45
H	T51
I	T60

5	S Separate flushing
T	Tube Size

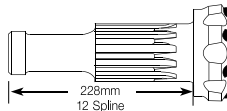
02 | Bit Shank Identification Chart



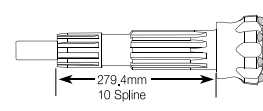
MISSION 30



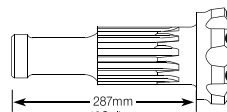
IR 3,5, Mincon 3,5



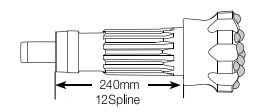
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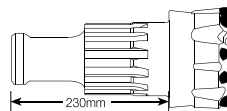
Ingersoll-Rand QL-40



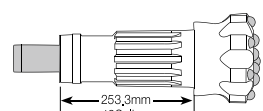
MISSION 50/55



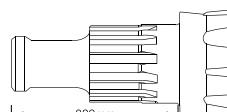
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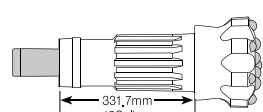
MISSION 60/60W/65



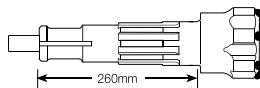
Ingersoll-Rand QL-60,
Mincon 6DH, Secoroc
COP64



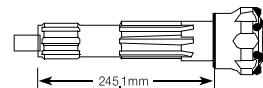
MISSION 85



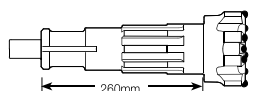
Ingersoll-Rand QL-80



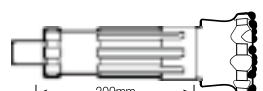
MISSION SD 4, Böhler LH96,
Digger 4/42, Drillquip T4



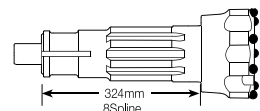
Secoroc Cop 34



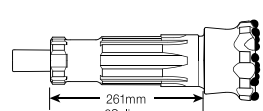
MISSION SD 5, Digger 5,
Drillquip T50, Bulroc BR5V
Stenuik ADEC 5M



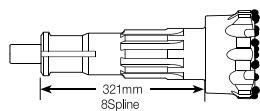
Ingersoll-Rand 340, IR DH4,
Secoroc COP44, NUMA 4,
Mincon 4HR



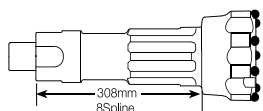
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Bulroc BR6V, Digger6,
Drillquip T36



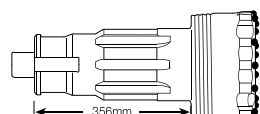
Ingersoll-Rand 350, Digger 5,
NUMA5, Secoroc COP54,
Drillquip T35350, Mincon 5



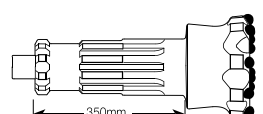
MISSION SD 8, Bulroc BR8V,
Digger 7, Drillquip T17



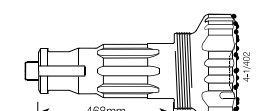
IR360, IR SF6, Secoroc
COP64, Digger 6, NUMA
6, Drillquip T36, Mincon6 BH36



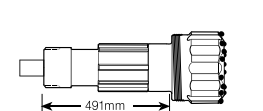
MISSION SD 10



IR 380, Digger 8, NUMA 8,
Drillquip T38

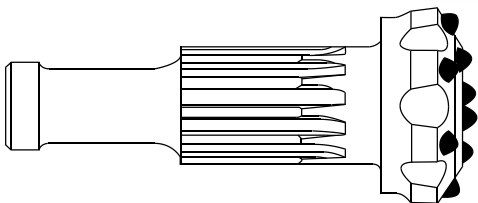
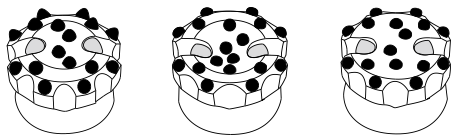


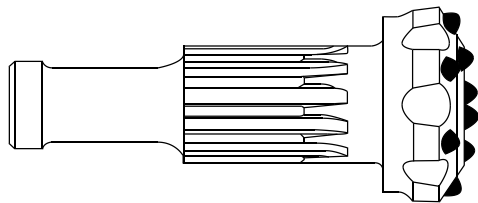

MISSION SD 12,
Drillquip T1120A, Halco Mach12



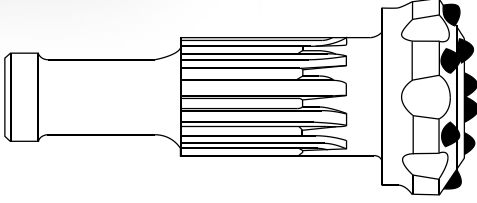


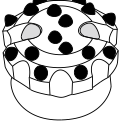
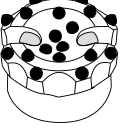
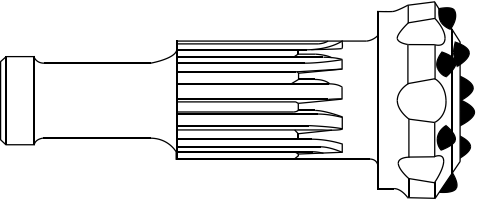
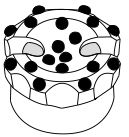


IR 112, Drillquip T1120-112,
Epley1200

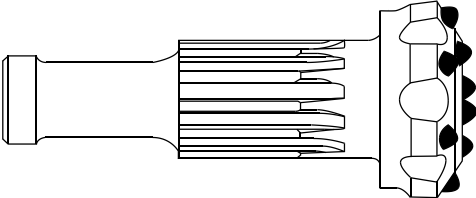

DTH BITS

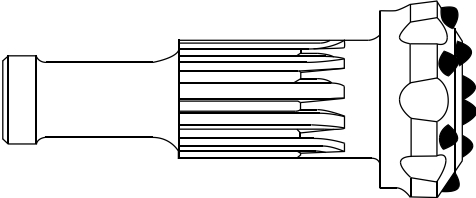

MISSION 30 Bits	Face/ Button Shape	Bit Diameter Dimension		No. Air Holes	No. Gauge Buttons	Button Dia. mm		Weight	
		mm	inch			gauge	front	kg	lb
 	Convex/Ballistic	90	3 1/2	2	7	13	12	4	9
		95	3 3/4	2	7	13	13	4	9
		100	3 7/8	2	8	13	13	4.5	10
		105	4 1/8	2	8	14	14	4.5	10
	Drop Center/ Spherical	90	3 1/2	3	6	13	12	4	9
		95	3 3/4	3	6	13	13	4	9
		105	4 1/8	2	8	13	13	4.5	10
	Flat/Ballistic Spherical Gauge	100	3 7/8	2	8	13	13	4.5	10

MISSION 40 Bits	Face/ Button Shape	Bit Diameter Dimension		No. Air Holes	No. Gauge Buttons	Button Dia. mm		Weight	
		mm	inch			gauge	front	kg	lb
 	Concave/Spherical	115	4 1/2	2	8	16	13	7	15
		115	4 1/2	2	8	16	13	7	15
		121	4 3/4	2	8	16	13	7	15
		121	4 3/4	2	8	16	13	7	15
		130	5 1/8	2	8	16	14	7	15
		133	5 1/4	2	8	16	14	7	15
		152	6	2	8	16	13	15	33
	Flat/Spherical	110	4 1/4	2	8	14	14	7	15
		115	4 1/2	2	8	14	14	7	15
		121	4 3/4	2	8	14	14	7	15
		127	5	2	8	14	14	7	15
	Convex/Ballistic	110	4 1/4	2	8	14	14	7	15
		115	4 1/2	2	8	14	14	7	15
		115	4 3/4	2	8	16	16	7	15
		127	5	2	8	14	14	7	15
	Convex/Ballistic	110	4 1/4	2	8	14	13	7	15
		115	4 1/2	2	8	14	14	7	15
		121	4 1/2	2	8	16	14	7	15
	Hole Opener	102mm to 152mm 4" to 6"							

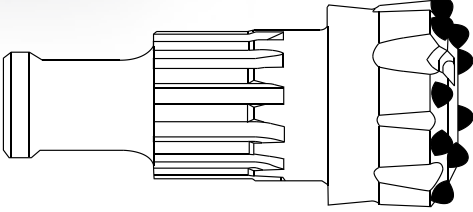






DTH BITS

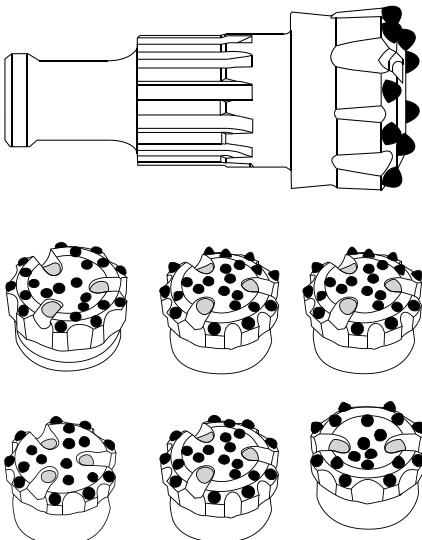
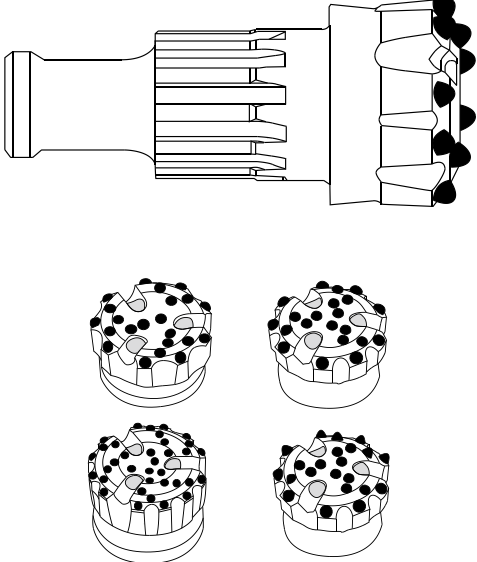
MISSION 40C Bits	Face/ Button Shape	Bit Diameter Dimension		No. Air Holes	No. Gauge Buttons	Button Dia. mm		Weight	
		mm	inch			gauge	front	kg	lb
    	Concave/Spherical	115	4 $\frac{1}{2}$	2	8	16	13	7	15
		115	4 $\frac{1}{2}$	2	8	16	13	7	15
		121	4 $\frac{3}{4}$	2	8	16	13	7	15
		121	4 $\frac{3}{4}$	2	8	16	13	7	15
		130	5 $\frac{1}{8}$	2	8	16	14	7	15
		133	5 $\frac{1}{4}$	2	8	16	14	7	15
		152	6	2	8	16	13	15	33
	Flat/Spherical	110	4 $\frac{1}{4}$	2	8	14	14	7	15
		115	4 $\frac{1}{2}$	2	8	14	14	7	15
		121	4 $\frac{3}{4}$	2	8	14	14	7	15
		127	5	2	8	14	14	7	15
	Convex/Ballistic	110	4 $\frac{1}{4}$	2	8	14	14	7	15
		115	4 $\frac{1}{2}$	2	8	14	14	7	15
		115	4 $\frac{3}{4}$	2	8	16	16	7	15
		127	5	2	8	14	14	7	15
	Convex/Ballistic	110	4 $\frac{1}{4}$	2	8	14	13	7	15
		115	4 $\frac{1}{2}$	2	8	14	14	7	15
		121	4 $\frac{1}{2}$	2	8	16	14	7	15
	Hole Opener	102mm to 152mm 4" to 6"							
MISSION 50C Bits	Face/ Button Shape	Bit Diameter Dimension		No. Air Holes	No. Gauge Buttons	Button Dia. mm		Weight	
		mm	inch			gauge	front	kg	lb
   	Concave/Spherical	130	5 $\frac{1}{8}$	2	8	16	14	12.2	27
		130	5 $\frac{1}{8}$	2	8	16	14	12.2	27
		133	5 $\frac{1}{4}$	2	8	16	14	12.5	27
		133	5 $\frac{1}{4}$	2	8	16	14	12.5	27
		137	5 $\frac{3}{8}$	2	8	16	14	13	28
		137	5 $\frac{3}{8}$	2	8	16	14	13	28
		140	5 $\frac{1}{2}$	2	8	16	16	13.2	29
		140	5 $\frac{1}{2}$	2	8	16	16	13.2	29
		146	5 $\frac{3}{4}$	2	8	16	16	14	31
		146	5 $\frac{3}{4}$	2	8	16	16	14	31
		152	6	2	8	18	16	15	33
	Flat/Spherical	142	5 $\frac{5}{8}$	3	9	16	14	13.4	29
	Convex/Ballistic	133	5 $\frac{1}{4}$	3	9	16	16	12.5	27
		140	5 $\frac{1}{2}$	3	9	16	16	13.2	29
		146	5 $\frac{3}{4}$	3	9	16	16	14	31
		149	5 $\frac{7}{8}$	3	9	16	16	14	32
		152	6	3	9	18	16	15	33

MISSION 55S Bits	Face/ Button Shape	Bit Diameter Dimension		No. Air Holes	No. Gauge Buttons	Button Dia. mm		Weight	
		mm	inch			gauge	front	kg	lb
 	Concave/Spherical	140	5 1/2	2	8	16	16	13.2	29
		140	5 1/2	2	8	16	16	13.2	29
		146	5 3/4	2	8	16	16	14	31
		146	5 3/4	2	8	16	16	14	31
		152	6	2	8	18	16	15	33
	Flat/Spherical	142	5 5/8	3	9	16	14	13.4	29
	Convex/Ballistic	140	5 1/2	3	9	16	16	13.2	29
		146	5 3/4	3	9	16	16	14	31
		149	5 7/8	3	9	16	16	14	32
		152	6	3	9	18	16	15	33

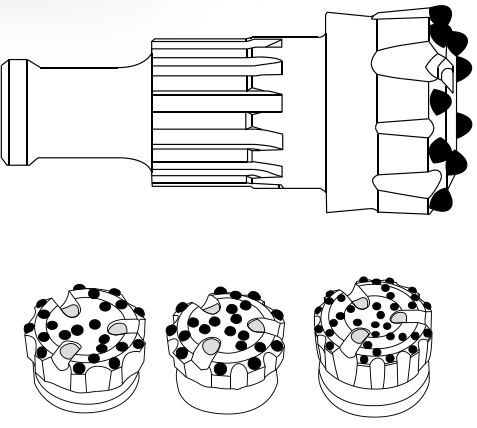
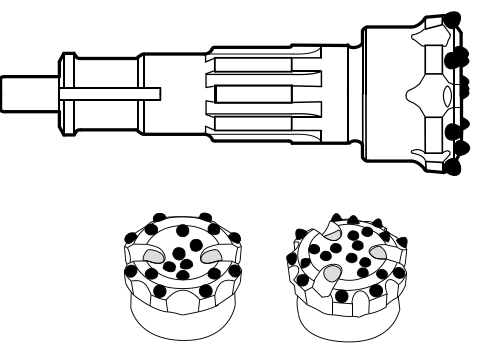
MISSION 55S & 55G Bits	Face/ Button Shape	Bit Diameter Dimension		No. Air Holes	No. Gauge Buttons	Button Dia. mm		Weight	
		mm	inch			gauge	front	kg	lb
 	Concave/Spherical	140	5 1/2	2	8	16	16	13.2	29
		140	5 1/2	2	8	16	16	13.2	29
		146	5 3/4	2	8	16	16	14	31
		146	5 3/4	2	8	16	16	14	31
		152	6	2	8	18	16	15	33
	Flat/Spherical	142	5 5/8	3	9	16	14	13.4	29
	Convex/Ballistic	140	5 1/2	3	9	16	16	13.2	29
		146	5 3/4	3	9	16	16	14	31
		149	5 7/8	3	9	16	16	14	32
		152	6	3	9	18	16	15	33

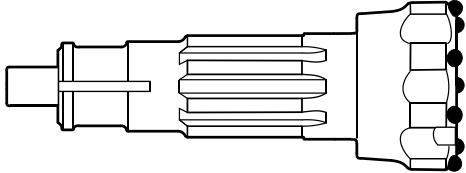

DTH BITS

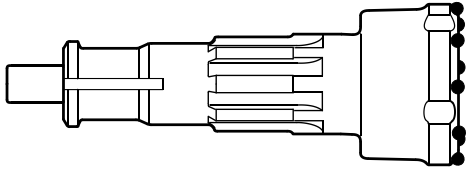
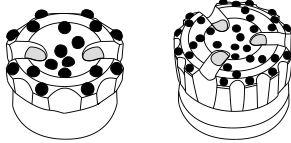
MISSION 60, 60C, 60W & CW Bits	Face/ Button Shape	Bit Diameter Dimension		No. Air Holes	No. Gauge Buttons	Button Dia. mm		Weight	
		mm	inch			gauge	front	kg	lb
	Concave/Spherical	152	6	2	8	18	18	21	47
		152	6	2	8	18	18	21	47
		154		2	8	18	18	21	47
		155	6 ¹ / ₈	2	8	18	18	21	47
		155	6 ¹ / ₈	2	8	18	18	21	47
		159	6 ¹ / ₄	2	8	18	18	22	48
		159	6 ¹ / ₄	2	8	18	18	22	48
		165	6 ¹ / ₂	3	9	18	18	22	48
		165	6 ¹ / ₂	3	9	18	18	22	49
		172	6 ³ / ₄	3	9	18	18	24	52
		172	6 ³ / ₄	3	9	18	18	24	52
		178	7	3	9	18	16	24	52
		190	7 ¹ / ₂	3	9	18	16	26	58
		203	8	3	9	18	16	28	62
		219	8 ⁵ / ₈	3	9	18	16	34	75
		254	10	3	9	18	16	45	100
	Flat/Spherical	165	6 ¹ / ₂	3	9	18	18	22	49
	Convex/Ballistic	152	6	3	9	18	18	22	48
		155	6 ¹ / ₈	3	9	18	18	22	48
		159	6 ¹ / ₄	3	9	18	18	22	49
		165	6 ¹ / ₂	3	9	18	18	23	51
		172	6 ³ / ₄	3	9	18	18	24	52
		178	7 ¹ / ₂	3	9	18	18	24	52
	Convex/Ballistic/Spherical	172	6 ³ / ₄	3	9	18	18	24	52
	Convex/Ballistic	190	7 ¹ / ₂	2	10	18	18	26	58
	Hole Opener	152mm to 203mm, 6" to 8"							
	Hole Opener	203mm to 254mm, 6" to 10"							

MISSION 65 & 65C Bits	Face/ Button Shape	Bit Diameter Dimension		No. Air Holes	No. Gauge Buttons	Button Dia. mm		Weight	
		mm	inch			gauge	front	kg	lb
	Concave/Spherical	165	6 $\frac{1}{2}$	3	8	18	18	22	48
		165	6 $\frac{1}{2}$	3	8	18	18	22	49
		172	6 $\frac{3}{4}$	3	8	18	18	24	52
		172	6 $\frac{3}{4}$	3	8	18	18	24	52
		178	7	3	8	18	16	24	52
		190	7 $\frac{1}{2}$	3	8	18	16	26	58
		203	8	3	8	18	16	28	62
		219	8 $\frac{5}{8}$	3	9	18	16	34	75
		254	10	3	9	18	16	45	100
	Flat/Spherical	165	6 $\frac{1}{2}$	3	9	18	18	22	49
	Convex/Ballistic	165	6 $\frac{1}{2}$	3	9	18	18	23	59
		172	6 $\frac{3}{4}$	3	9	18	18	24	52
		178	7	3	9	18	18	24	52
	Concave/Spherical	165	6 $\frac{1}{2}$	3	9	18	18	23	50
		172	6 $\frac{3}{4}$	3	9	18	18	24	52
	Convex/Ballistic/Spherical	172	6 $\frac{3}{4}$	3	9	18	18	24	52
	Convex/Ballistic	190	7 $\frac{1}{2}$	2	10	18	18	26	58
	Hole Opener	152mm to 203mm, 6" to 8"							
	Hole Opener	203mm to 254mm, 6" to 10"							
MISSION 80W Bits	Face/ Button Shape	Bit Diameter Dimension		No. Air Holes	No. Gauge Buttons	Button Dia. mm		Weight	
		mm	inch			gauge	front	kg	lb
	Concave/Spherical	200	7 $\frac{1}{8}$	3	9	18	18	41	91
		203	8	3	9	18	18	41	91
		203	8	3	9	18	18	41	91
		203	8	3	9	22	18	41	91
		219	8 $\frac{5}{8}$	3	9	18	18	42	93
		219	8 $\frac{5}{8}$	3	9	18	18	42	93
		222	8 $\frac{3}{4}$	3	12	18	18	29	108
		229	9	3	12	18	18	53	117
		241	9 $\frac{1}{2}$	3	12	18	18	57	125
		254	10	3	12	18	18	57	125
	Convex/Ballistic/Spherical	200	7 $\frac{1}{8}$	3	9	18	18	41	91
		303	8	3	9	18	18	41	91
	Convex/Ballistic	219	8 $\frac{5}{8}$	3	9	18	18	42	93
		222	8 $\frac{3}{4}$	3	9	18	18	49	108

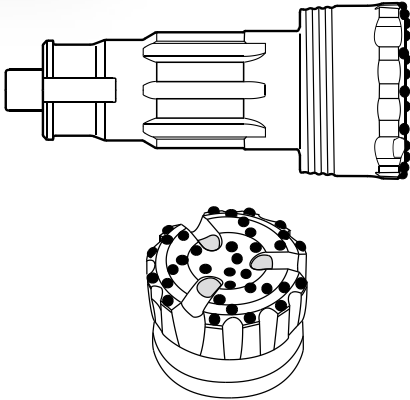
DTH BITS

MISSION 85 Bits	Face/ Button Shape	Bit Diameter Dimension		No. Air Holes	No. Gauge Buttons	Button Dia. mm		Weight	
		mm	inch			gauge	front	kg	lb
	Concave/Spherical	200	7 ⁷ / ₈	3	9	18	18	41	91
		203	8	3	9	18	18	41	91
		203	8	3	9	18	18	41	91
		203	8	3	9	22	18	41	91
		219	8 ⁵ / ₈	3	9	18	18	42	93
		219	8 ⁵ / ₈	3	9	18	18	42	93
		222	8 ³ / ₄	3	12	18	18	29	108
		229	9	3	12	18	18	53	117
		241	9 ¹ / ₂	3	12	18	18	57	125
		254	10	3	12	18	18	57	125
	Convex/Ballistic/Spherical	200	7 ⁷ / ₈	3	9	18	18	41	91
		303	8	3	9	18	18	41	91
	Convex/Ballistic	219	8 ⁵ / ₈	3	9	18	18	42	93
		222	8 ³ / ₄	3	9	18	18	49	108
Silverdril SD 5 Bits	Face/ Button Shape	Bit Diameter Dimension		No. Air Holes	No. Gauge Buttons	Button Dia. mm		Weight	
		mm	inch			gauge	front	kg	lb
	Concave/Spherical	130	5 ¹ / ₈	2	8	16	14	14	91
		133	5 ¹ / ₄	2	8	16	14	14	32
		140	5 ¹ / ₂	2	8	16	14	15	32
		146	5 ³ / ₄	2	8	16	14	15	33
		149	5 ⁷ / ₈	2	8	16	14	16	33
		152	6	2	8	16	14	18	36
									40
	Convex/Ballistic	140	5 ¹ / ₂	3	9	16	14	14	32
	Foot Valve							0.05	0.1

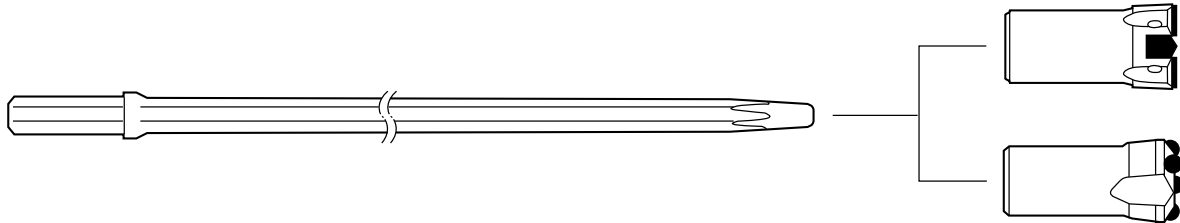
Silverdril SD 6 Bits	Face/ Button Shape	Bit Diameter Dimension		No. Air Holes	No. Gauge Buttons	Button Dia. mm		Weight	
		mm	inch			gauge	front	kg	lb
 	Flat/Spherical	152	6	2	8	16	16	27	60
		155	6 ¹ / ₈	2	8	16	16	27	60
		159	6 ¹ / ₄	2	8	16	16	28	61
		165	6 ¹ / ₂	2	8	16	16	28	62
		172	6 ³ / ₄	2	8	16	16	30	66
		178	7	2	8	16	16	32	71
		190	7 ¹ / ₂	2	8	16	16	33	73
		203	8	2	10	16	16	35	78
		219	8 ⁵ / ₈	2	10	16	16	40	88
		254	10	3	12	16	16	52	114
	Convex/Ballistic	165	6 ¹ / ₂	3	9	16	16	28	62
		165	6 ¹ / ₂	3	9	18	18	28	62
		172	6 ³ / ₄	3	9	18	18	30	66
	Foot Valve							0.5	1

Silverdril SD 8 Bits	Face/ Button Shape	Bit Diameter Dimension		No. Air Holes	No. Gauge Buttons	Button Dia. mm		Weight	
		mm	inch			gauge	front	kg	lb
 	Concave/Spherical	194	7 ⁵ / ₈	2	10	18	18	40	89
		200	7 ⁷ / ₈	2	10	18	18	41	91
		203	8	2	10	18	18	42	92
		203	8	2	10	18	18	42	92
		219	8 ⁵ / ₈	2	10	18	18	54	119
		222	8 ³ / ₄	2	10	18	18	56	124
		222	8 ³ / ₄	3	12	18	18	56	124
		241	9 ¹ / ₂	3	12	18	18	63	138
		251	9 ⁷ / ₈	3	12	18	18	64	142
		254	10	3	12	18	18	67	147

DTH BITS


Silverdril SD 10 Bits	Face/ Button Shape	Bit Diameter Dimension		No. Air Holes	No. Gauge Buttons	Button Dia. mm		Weight	
		mm	inch			gauge	front	kg	lb
	Concave/Spherical	254	10	3	12	18	18	108	238
	Fishing thread	270	10 ⁵ / ₈		12	18	18	108	238
	Foot Valve								0.5

03 | Tapered Drill Equipment

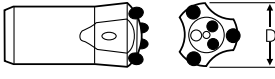
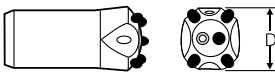
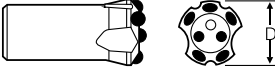


Tapered Drill Bit

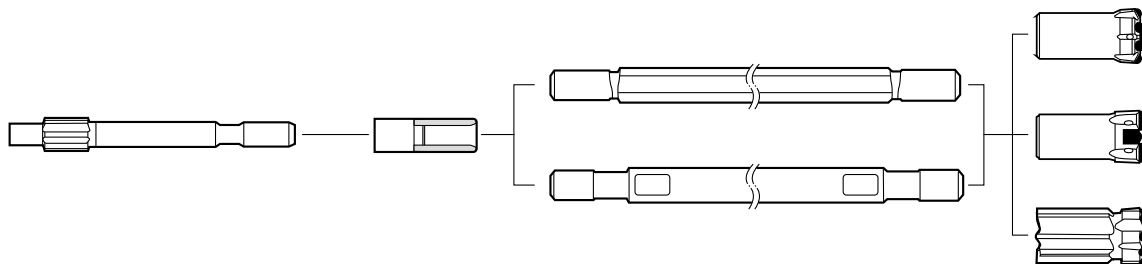
› H22(7/8") Taper 12" Series

Bit	Carbide Shape	Dimension		Buttons*Button Dia				Gauge	Flushing		Approx		Part No.
		Dia		Gauge		Front		Buttons	Hole		Weight		
		mm	inch	EA	mm	EA	mm	Angle	front	side	kg	lb	
	BA	32	1 1/4"	5	7	2	7	40	1	1	0.3	0.75	B13-032B-J1-3
	BA	35	1 3/8"	5	7	2	7	35	1	1	0.3	0.75	B13-035B-J1-3
	BA	38	1 1/2"	5	8	2	7	35	1	1	0.4	0.85	B13-038B-J1-3





› H22(7/8") Taper 7" Series

Bit	Carbide Shape	Dimension		Buttons*Button Dia				Gauge	Flushing		Approx		Part No.
		Dia		Gauge		Front		Buttons	Hole		Weight		
		mm	inch	EA	mm	EA	mm	Angle	front	side	kg	lb	
	BA	32	1 1/4"	3	8	2	7	35	1	1	0.3	0.75	B11-032B-H1-3
	BA	26	1 1/32"	4	8	1	7	30	1	1	0.25	0.70	B11-026G-I1-3
	BA	28	1 1/8"	4	7	1	7	35	1	1	0.28	0.73	B11-028G-I1-3
	BA	30	1 3/16"	4	7	1	7	35	1	1	0.3	0.75	B11-030G-I1-3
	BA	32	1 1/4"	4	8	1	7	35	1	1	0.3	0.75	B11-032G-I1-3
	BA	35	1 3/8"	4	8	2	7	35	1	1	0.4	0.85	B11-035B-I1-3
	BA	32	1 1/4"	5	7	2	7	32	1	1	0.3	0.75	B11-032B-J1-3
	BA	35	1 3/8"	5	7	2	7	32	1	1	0.3	0.75	B11-035B-J1-3
	BA	38	1 1/2"	5	8	2	7	35	1	1	0.4	0.85	B11-038B-J1-3
	BA	41	1 5/8"	5	8	2	7	35	1	1	0.4	0.85	B11-041B-J1-3
	BA	45	1 3/4"	5	9	2	7	35	1	1	0.5	0.95	B11-045B-J1-3

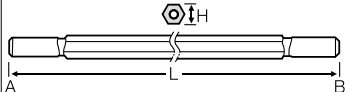
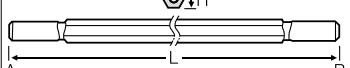
04 | Drifting Drilling Equipment

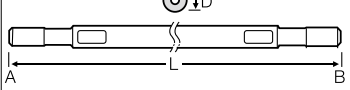
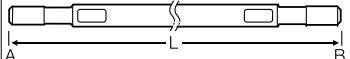


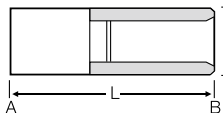
► R32(1-1/4") Series

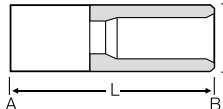
Bit		Carbide Shape	Dimension		Buttons*Button Dia				Gauge	Flushing		Approx		Part No.
			Dia		Gauge		Front		Buttons	Hole		Weight		
			mm	inch	EA	mm	EA	mm	Angle	front	side	kg	lb	
		SP	41	1 5/8"	5	9	2	8	25	2		0.6	1.05	B03-041S-J1-1
		SP	43	1 11/16"	5	9	2	8	30	2	1	0.6	1.05	B03-043S-J1-1
		SP	45	1 3/4"	6	9	3	8	30	3	1	0.7	1.15	B03-045S-J1-1
 Flat Face	SP	38	1 1/2"	5	8	2	8	30	3	1	0.5	0.95	B03-038S-L1-1	
	SP	41	1 5/8"	6	8	3	8	30	3	1	0.6	1.05	B03-041S-L1-1	
	BA	41	1 5/8"	6	8	3	8	30	3	1	0.6	1.05	B03-041 B-L1-1	
	SP	43	1 11/16"	6	9	3	8	30	3	1	0.7	1.15	B03-043S-L1-1	
	SP	45	1 3/4"	6	10	3	8	30	3	1	0.7	1.15	B03-045S-L1-1	
	BA	45	1 3/4"	6	10	3	8	30	3	1	0.7	1.15	B03-045B-L1-1	
	SP	48	1 7/8"	6	10	3	9	30	3	1	0.95	1.40	B03-048S-L1-1	
	BA	48	1 7/8"	6	10	3	9	30	3	1	0.95	1.40	B03-048B-L1-1	
	SP	51	2"	6	10	3	9	30	3	1	1	1.45	B03-051S-L1-1	
	BA	51	2"	6	10	3	9	30	3	1	1	1.45	B03-051B-L1-1	
	sP	57	2 1/4"	6	11	3	9	30	3	1	1.2	1.65	B03-057S-L1-1	
	BA	57	2 1/4"	6	11	3	9	30	3	1	1.2	1.65	B03-057B-L1-1	
	SP	64	2 1/2"	8	11	4	10	35	3		1.7	2.15	B03-064S-L1-1	
	BA	64	2 1/2"	8	11	4	10	35	3		1.7	2.15	B03-064B-L1-1	
 Flat Face	SP	45	1 3/4"	6	10	3	8	30	3	1	0.8	1.25	B03-45S-M4-1	
	BA	45	1 3/4"	6	10	3	8	30	3	1	0.8	1.25	B03-45B-M4-1	
	PA	45	1 3/4"	6	10	3	8	30	3	1	0.8	1.25	B03-45P-M4-1	
	SP	51	2"	6	10	3	9	30	3	1	1	1.45	B03-51S-M4-1	
	BA	51	2"	6	10	3	9	30	3	1	1	1.45	B03-51B-M4-1	
	PA	51	2"	6	10	3	9	30	3	1	1	1.45	B03-51P-M4-1	
	PA	57	2 1/4"	6	11	3	9	30	3		1.2	1.65	B03-57P-M4-1	
	PA	64	2 1/2"	8	11	4	10	35	3		1.7	2.15	B03-64P-M4-1	
 Retract	BA	57	2 1/4"	6	10	3	10	35	3		1.6	2.05	B03-57B-D4-1	
	SP	64	2 1/2"	8	11	4	10	35	3		1.7	2.15	B03-64S-D4-1	

► H22(7/8") Taper 12" Series

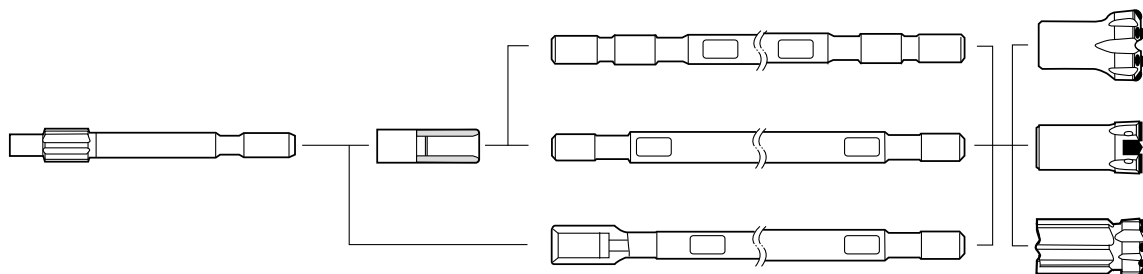
Drifting Rod	Hexagon H		Length		Approx' Weight		Thread		Part No.
	mm	inch	mm	ft / inch	kg	lb	A	B	
Hexagon Single Rod 	32	1 1/4"	3090	10' 2"	19.7	20.15	R32	R38	D-H32CD-3090-A
			3700	12' 2"	23.4	23.85	R32	R38	D-H32CD-3700-A
			4310	14'	27.2	27.65	R32	R38	D-H32CD-4310-A
	32	1 1/4"	3090	10' 2"	19.5	19.95	R32	T38	D-H32CF-3090-A
			3700	12' 2"	23.2	23.65	R32	T38	D-H32CF-3700-A
			4310	14'	27.1	27.55	R32	T38	D-H32CF-4310-A
Hexagon Single Rod 	35	1 3/8"	4310	14' 2"	30.3	30.75	R32	R38	D-H35CD-4310-A
			4920	16' 2"	36.9	37.35	R32	R38	D-H35CD-4920-A
			4920		36.9	37.35	R32	T38	D-H35CF-4920-A

Extension Rod	Round D		Length		Approx' Weight		Thread		Part No.
	mm	inch	mm	inch	kg	lb	A	B	
Round Single Rod 	32	1 1/4"	1000	3' 3"	5.64	6.09	R32	R32	E-R32CC-1000-A
			1220	4"	6.88	7.33	R32	R32	E-R32CC-1220-A
			1820	6"	10.04	10.49	R32	R32	E-R32CC-1820-A
			2440	8"	13.72	14.17	R32	R32	E-R32CC-2440-A
			3050	10"	17.3	17.75	R32	R32	E-R32CC-3050-A
			3660	12"	20.63	21.08	R32	R32	E-R32CC-3660-A
Round Single Rod 	39	1 9/16"	4350	14"	37.3	37.75	R32	T38	E-R39CF-4350-A
			4920	16' 1/2"	42.1	42.55	R32	T38	E-R39CF-4920-A

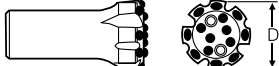

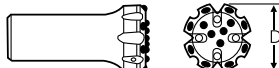




Coupling Sleeve	Round D		Length		Approx' Weight		Thread		Part No.
	mm	inch	mm	inch	kg	lb	A	B	
	44	1 3/4"	150	6"	1	1.45	R32	R32	C1-CC
	54	2 1/8"	170	6 3/4"	1.7	2.15	R38	R38	C1-DD
	54	2 1/8"	190	7/4"	1.8	2.25	T38	T38	C1-FF

Adapter Coupling	Round D		Length		Approx' Weight		Thread		Part No.
	mm	inch	mm	inch	kg	lb	A	B	
	54	2 1/8"	181	7 9/64"	1.7	2.15	R32	R38	C2-CD
	54	2 1/8"	190	7.4"	1.9	2.35	T32	T38	C2-CF
	54	2 1/8"	190	7.4"	1.8	2.25	R38	T38	C2-DF

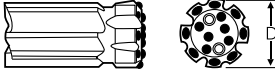
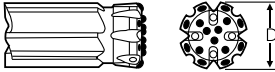
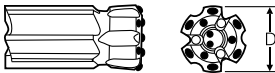

05 | Bench Drilling Equipment



► T38(1-1/2") Series

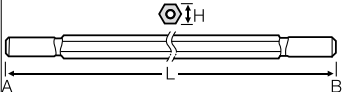
Bit	Carbide Shape	Dimension		Buttons*Button Dia						Gauge	Flushing		Approx		Part No.
		Dia		Gauge		Front		Center		Buttons	Hole		Weight		
		mm	inch	EA	mm	EA	mm	EA	mm	Angle	front	side	kg	lb	
 Flat Face	SP	64	2 1/2"	8	11	4	10			35	2		1.5	1.95	B06-064S-A3-1
	BA	64	2 1/2"	8	11	4	10			35	2		1.5	1.95	B06-064B-A3-1
	SP	70	2 3/4"	8	10	6	10			35	2		1.7	2.15	B06-070S-A3-1
	SP	76	3"	8	11	4	11			35	2		1.9	2.35	B06-076S-A3-1
	BA	76	3"	8	11	4	11			35	2		1.9	2.35	B06-076B-A3-1
 Flat Face	SP	89	3 1/2"	9	11	6	10			35	3		3.7	4.15	B06-089S-A4-1
	BA	89	3 1/2"	9	11	6	10			35	3		3.7	4.15	B06-089B-A4-1
	SP	102	4"	9	12	6	12			35	3		4.6	5.05	B06-102S-A4-1
	BA	102	4"	9	12	6	12			35	3		4.6	5.05	B06-102B-A4-1
 Flat Face	SP	102	4"	8	14	5	12			35	4		4.8	5.25	B06-102S-A5-2
	BA	102	4"	8	14	5	12			35	4		4.8	5.25	B06-102B-A5-2
 Flat Face	PA	64	2 1/2"	6	12	3	11			35	3		1.5	1.95	B06-064P-A4-1
	PA	76	3"	7	12	3	11			35	3		1.8	2.25	B06-064P-A4-1
 Drop Center	SP	64	2 1/2"	6	11	4	10			35	3		1.42	1.87	B06-064S-B4-2
	BA	64	2 1/2"	6	11	4	10			35	3		1.42	1.87	B06-064B-B4-2
	SP	76	3"	6	11	4	11			35	3		2.6	3.05	B06-076S-B4-2
	BA	76	3"	6	11	4	11			35	3		2.6	3.05	B06-076B-B4-2
 Drop Center	SP	89	3 1/2"	8	12	5	11			35	4		3.6	4.05	B06-089S-B5-2
	BA	89	3 1/2"	8	12	5	11			35	4		3.6	4.05	B06-089B-B5-2
	SP	102	4"	8	14	5	12			35	4		5.5	5.95	B06-102S-B5-2
	BA	102	4"	8	14	5	12			35	4		5.5	5.95	B06-102B-B5-2
 Heavy Duty	SP	64	2 1/2"	6	12	3	11			35	3		1.7	2.15	B06-064S-F1-2
	SP	76	3"	8	12	4	11			35	2		2.7	3.15	B06-076S-F1-2
	SP	89	3 1/2"	8	13	5	13			35	2		3.9	4.35	B06-089S-F1-2

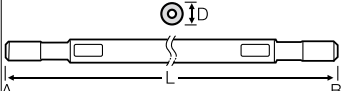
► T38(1-1/2") Series

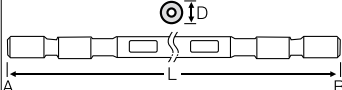
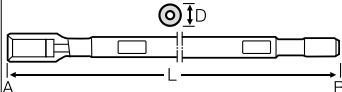
Bit	Carbide Shape	Dimension		Buttons*Button Dia						Gauge	Flushing		Approx		Part No.
		Dia		Gauge		Front		Center		Buttons	Hole		Weight		
		mm	inch	EA	mm	EA	mm	EA	mm	Angle	front	side	kg	lb	
 Retract Flat Face	SP	64	2 1/2"	8	11	4	10			35	2		1.9	2.35	B06-064S-D1-3
	BA	64	2 1/2"	8	11	4	10			35	2		1.9	2.35	B06-064B-D1-3
	SP	76	3"	8	11	4	11			35	2		3	3.45	B06-076S-D1-3
	BA	76	3"	8	11	4	11			35	2		3	3.45	B06-076B-D1-3
	SP	76	3"	8	12	4	10			35	2		3	3.45	B06-076S-D1-3
	BA	76	3"	8	12	4	10			35	2		3	3.45	B06-076B-D1-3
 Retract Flat Face	SP	89	3 1/2"	8	11	6	11			35	4		5.5	5.95	B06-089S-D5-2
	BA	89	3 1/2"	8	11	6	11			35	4		5.5	5.95	B06-089B-D5-2
	SP	102	4"	8	12	6	11			35	4		7.2	7.65	B06-102S-D5-2
	BA	102	4"	8	12	6	11			35	4		7.2	7.65	B06-102B-D5-2
 Retract Drop Center	SP	64	2 1/2"	6	11	3	10	1	10	35	3		1.9	2.35	B06-064S-E4-2
	BA	64	2 1/2"	6	11	3	10	1	10	35	3		1.9	2.35	B06-064B-E4-2
	SP	76	3"	6	11	3	11	1	11	35	3		3	3.45	B06-076S-E4-2
	BA	76	3"	6	11	3	11	1	11	35	3		3	3.45	B06-076B-E4-2
 Retract Drop Center	SP	64	2 1/2"	8	11	4	10	1	9	35	4		1.9	2.35	B06-064S-E5-1
	BA	64	2 1/2"	8	11	4	10	1	9	35	4		1.9	2.35	B06-064B-E5-1
	SP	76	3"	8	11	4	11	1	10	35	4		3	3.45	B06-076S-E5-1
	BA	76	3"	8	11	4	11	1	10	35	4		3	3.45	B06-076B-E5-1
	SP	89	3 1/2"	8	11	4	11	2	9	35	4	1	5.3	5.75	B06-089S-E5-1
	BA	89	3 1/2"	8	11	4	11	2	9	35	4	1	5.3	5.75	B06-089B-E5-1
	SP	89	3 1/2"	8	12	4	11	2	9	35	4	1	5.3	5.75	B06-089S-E5-2
	BA	89	3 1/2"	8	12	4	11	2	9	35	4	1	5.3	5.75	B06-089B-E5-2
	BA	95	3 3/4"	8	11	4	11	2	10	35	4	1	6	6.45	B06-095B-E5-1
	SP	95	3 3/4"	8	12	4	11	2	10	35	4	1	6	6.45	B06-095S-E5-1
	BA	95	3 3/4"	8	12	4	11	2	10	35	4	1	6	7.55	B06-095B-E5-1
	BA	102	4"	8	12	4	11	2	11	35	4	1	7.1	7.55	B06-102B-E5-1
	BA	117	4"	8	14	4	13	3	13	35	4		8.7	9.15	B06-117B-E5-2
	BA	127	5"	8	14	4	14	3	13	35	4		10.5	10.95	B06-127B-E5-2

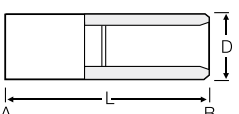
05 | Bench Drilling Equipment

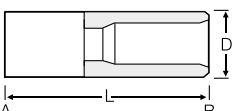
► T38(1-1/2") Series

Extension Rod	Hexagon H		Length		Approx' Weight		Thread		Part No.
	mm	inch	mm	ft	kg	lb	A	B	
Hexagon Rod 	32	1 1/4"	3050	10'	20.4	20.85	T38	T38	E-H32FF-3050-A
			3660	12'	24	24.45			E-H32FF-3660-A
			4270	14'	26	26.45			E-H32FF-4270-A

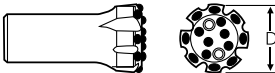
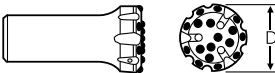
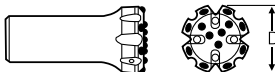

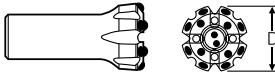
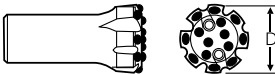
Extension Rod	Round D		Length		Approx' Weight		Thread		Part No.
	mm	inch	mm	ft / inch	kg	lb	A	B	
Round Single Rod 	39	1 1/2"	1020	3 3"	8.2	8.65	T38	T38	E-R39FF-1020-A
			1220	4'	9.9	10.35			E-R39FF-1220-A
			1525	5'	12.3	12.75			E-R39FF-1525-A
			1830	6'	14.7	15.15			E-R39FF-1830-A
			2020	6.6'	17.7	18.15			E-R39FF-2020-A
			3050	10'	24.7	25.15			E-R39FF-3050-A
			3660	12'	29.4	29.85			E-R39FF-3660-A
			4000	12'	32.1	32.55			E-R39FF-4000-A
			4270	14'	34.7	35.15			E-R39FF-4270-A

Extension Rod	Round D		Length		Approx' Weight		Thread		Part No.
	mm	inch	mm	ft	kg	lb	A	B	
Round Tandem Rod 	39	1 9/16"	3050	10'	24.7	25.15	T38	T38	E-R39FF-3050-B
			3660	12'	29.4	29.85			E-R39FF-3660-B
			4000	12'	32.1	32.55			E-R39FF-4000-B
			4270	14'	34.7	35.15			E-R39FF-4270-B
Round M/F Rod 	39	1 9/16"	1220	4'	9.9	10.35	T38	T38	M-R39FF-1220-A
			1525	5'	12.3	12.75			M-R39FF-1525-A
			1830	6'	14.7	15.15			M-R39FF-1830-A
			2440	8'	21.3	21.75			M-R39FF-2440-A
			3050	10'	24.7	25.15			M-R39FF-3050-A
			3660	12'	29.4	29.85			M-R39FF-3660-A

Coupling Sleeve	Round D		Length		Approx' Weight		Thread		Part No.
	mm	inch	mm	inch	kg	lb	A	B	
	54	2 1/8"	190	7 1/2"	1.8	2.25	T38	T38	C1-FF

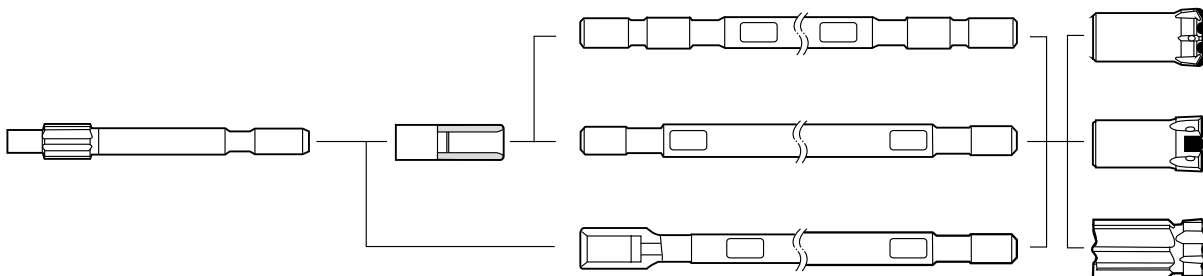
Adapter Coupling	Round D		Length		Approx' Weight		Thread		Part No.
	mm	inch	mm	inch	kg	lb	A	B	
	54	2 1/8"	190	7 1/2"	1.7	2.15	T38	R32	C2-FC
	54	2 1/8"	190	7 1/2"	1.7	2.15	T38	R38	C2-FD
	63	2 1/2"	215	8 15/32"	3.1	3.55	T38	T45	C2-FG

► T45(1-3/4") Series


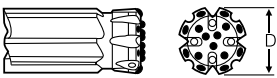

Bit		Carbide Shape	Dimension		Buttons*Button Dia						Gauge	Flushing		Approx		Part No.
			Dia		Gauge		Front		Center		Buttons	Hole		Weight		
			mm	inch	EA	mm	EA	mm	EA	mm	Angle	front	side	kg	lb	
 Flat Face	SP	76	3"	8	11	4	11			35	2		2.3	2.75	B07-076S-A1-1	
	BA	76	3"	8	11	4	11			35	2		2.3	2.75	B07-076B-A1-1	
	SP	89	3 1/2"	9	13	6	13			35	2		3.7	4.15	B07-089S-A1-1	
	BA	89	3 1/2"	9	13	6	13			35	2		3.7	4.15	B07-089B-A1-1	
 Flat Face	PA	76	3"	7	12	4	11			35	3		2.3	2.75	B07-076P-M-1	
	SP	89	3 1/2"	9	11	6	10			35	3		3.7	4.15	B07-076S-M-1	
	BA	89	3 1/2"	9	11	6	10			35	3		3.7	4.15	B07-076B-M-1	
	SP	102	4"	9	12	6	12			35	3		4.8	5.25	B07-102S-M-1	
	BA	102	4"	9	12	6	12			35	3		4.8	5.25	B07-102B-M-1	
 Flat Face	SP	102	4"	8	14	5	12			35	4		4.8	5.25	B07-102S-A5-2	
	BA	102	4"	8	14	5	12			35	4		4.8	5.25	B07-102B-A5-2	
	SP	115	4 1/2"	8	14	7	13			35	4		5.4	5.85	B07-115S-A5-2	
	BA	115	4 1/2"	8	14	7	13			35	4		5.4	5.85	B07-115B-A5-2	
 Drop Center	PA	76	3"	7	12	3	11	1	11	35	3		2.4	2.85	B07-076P-B4-1	
	SP	76	3"	6	11	3	11	1	11	35	3		2.4	2.85	B07-076S-B4-2	
	BA	76	3"	6	11	3	11	1	11	35	3		2.4	2.85	B07-076B-B4-2	
	SP	76	3"	6	12	3	11	1	11	35	3		2.4	2.85	B07-076S-B4-3	
	BA	76	3"	6	12	3	11	1	11	35	3		2.4	2.85	B07-076B-B4-3	
 Drop Center	SP	89	3 1/2"	8	12	4	11	1	11	35	4		3.4	3.85	B07-089S-B5-02	
	BA	89	3 1/2"	8	12	4	11	1	11	35	4		3.4	3.85	B07-089B-B5-02	
	5P	102	4"	8	14	4	12	1	12	35	4		4.8	5.25	B07-102S-B5-02	
	BA	102	4"	8	14	4	12	1	12	35	4		4.8	5.25	B07-102B-B5-02	
	SP	115	4 1/2"	8	14	4	13	3	13	35	4		6.2	6.65	B07-115S-B5-02	
	BA	115	4 1/2"	8	14	4	13	3	13	35	4		6.2	6.65	B07-115B-B5-02	
	SP	127	5"	8	14	4	14	3	14	35	4		6.8	7.25	B07-121S-B5-02	
	BA	127	5"	8	14	4	14	3	14	35	4		6.8	7.25	B07-127B-B5-02	
 Heavy Duty	SP	76	3"	8	12	4	12			35	2		2.3	2.75	B07-076S-F1-2	
	SP	89	3 1/2"	8	13	5	13			35	2		3.4	3.85	B07-089S-F1-2	
	SP	102	4"	8	14	6	14			35	2		4.5	4.95	B07-102S-F1-2	



05 | Bench Drilling Equipment

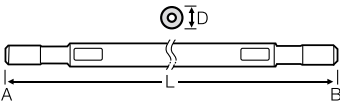


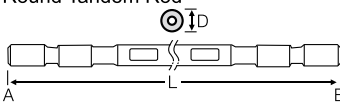
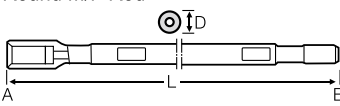
► T45(1-3/4") Series

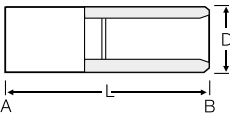
Bit	Carbide Shape	Dimension		Buttons*Button Dia						Gauge	Flushing		Approx		Part No.
		Dia		Gauge		Front		Center		Buttons	Hole		Weight		
		mm	inch	EA	mm	EA	mm	EA	mm	Angle	front	side	kg	lb	
 Retract Flat Face	SP	76	3"	8	11	4	11			35	2		2.8	3.25	B07-076S-01-2
	BA	76	3"	8	11	4	11			35	2		2.8	3.25	B07-076B-01-2
 Retract Flat Face	SP	89	3 1/2"	8	11	6	11			35	4	1	5.4	5.85	B07-089S-D5-1
	BA	89	3 1/2"	8	11	6	11			35	4	1	5.4	5.85	B07-089B-D5-1
	SP	89	3 1/2"	8	12	6	11			35	4	1	5.4	5.85	B07-089S-D5-1
	BA	89	3 1/2"	8	12	6	11			35	4	1	5.4	5.85	B07-089B-D5-1
	SP	102	4"	8	12	6	11			35	4	1	7	7.45	B07-102S-D5-1
	BA	102	4"	8	12	6	11			35	4	1	7	7.45	B07-102B-D5-1
	SP	102	4"	8	13	6	12			35	4	1	7	7.45	B07-102S-D5-1
	BA	102	4"	8	13	6	12			35	4	1	7	7.45	B07-102B-D5-1
	SP	115	4 1/2"	8	14	7	13			35	4		8.7	9.15	B07-115S-D5-2
	BA	115	4 1/2"	8	14	7	13			35	4		8.7	9.15	B07-115B-D5-2
 Retract Drop Center	SP	76	3"	8	11	4	11	1	10	35	4		2.9	3.35	B07-076S-E5-1
	BA	76	3"	8	11	4	11	1	10	35	4		2.9	3.35	B07-076B-E5-1
	SP	89	3 1/2"	8	11	4	11	2	9	35	4	1	5.3	5.75	B07-089S-E5-1
	BA	89	3 1/2"	8	11	4	11	2	9	35	4	1	5.3	5.75	B07-089B-E5-1
	SP	89	3 1/2"	8	12	4	11	2	11	35	4	1	5.3	5.75	B07-089S-E5-1
	BA	89	3 1/2"	8	12	4	11	2	11	35	4	1	5.3	5.75	B07-089B-E5-1
	SP	95	3 3/4"	8	11	4	11	2	10	35	4	1	6	6.45	B07-095S-E5-1
	BA	95	3 3/4"	8	11	4	11	2	10	35	4	1	6	6.45	B07-095B-E5-1
	SP	102	4"	8	12	4	11	2	11	35	4	1	7	7.45	B07-102S-E5-1
	BA	102	4"	8	12	4	11	2	11	35	4	1	7	7.45	B07-102B-E5-1
	SP	102	4"	8	13	4	12	2	12	35	4	1	7	7.45	B07-102S-E5-1
	BA	102	4"	8	13	4	12	2	12	35	4	1	7	7.45	B07-102B-E5-1
	BA	110	45/16"	8	12	4	12	2	12	35	4	1	8	8.45	B07-110B-E5-3
	SP	115	4 1/2"	8	14	4	13	3	13	35	4		8.7	9.15	B07-115S-E5-2
	BA	115	4 1/2"	8	14	4	13	3	13	35	4		8.7		B07-115B-E5-2

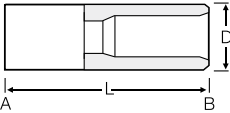


► T45(1-3/4") Series

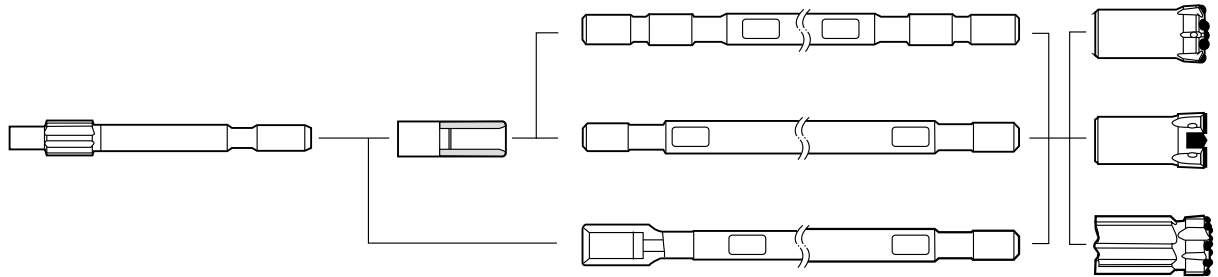
Extension Rod	Round D		Length		Approx' Weight		Thread		Part No.
	mm	inch	mm	ft	kg	lb	A	B	
Round Single Rod 	45	1 3/4"	3050	10'	34	34.45	T45	T45	E-R45GG-3050-A
			3660	12'	41	41.45			E-R45GG-3660-A
			4270	14'	48	48.45			E-R45GG-4270-A

Extension Rod	Round D		Length		Approx' Weight		Thread		Part No.
	mm	inch	mm	ft	kg	lb	A	B	
Round Tandem Rod 	45	1 3/4"	3050	10'	34	34.45	T45	T45	E-R45GG-3050-B
			3660	12'	41	41.45			E-R45GG-3660-B
Round M/F Rod 	45	1 3/4"	1830	6'	22.6	23.05	T45	T45	M-R45GG-1830-A
			3050	10'	37	37.45			M-R45GG-3050-A
			3660	12'	43	43.45			M-R45GG-3660-A
			4270	14'	50	50.45			M-R45GG-4270-A

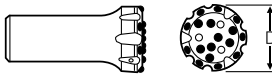



Coupling Sleeve	Round D		Length		Approx' Weight		Thread		Part No.
	mm	inch	mm	inch	kg	lb	A	B	
	63	2 1/2"	210	8 1/4"	2.7	3.15	T45	T45	C1-GG

Adapter Coupling	Round D		Length		Approx' Weight		Thread		Part No.
	mm	inch	mm	inch	kg	lb	A	B	
	63	2 1/2"	210	8 1/4"	3.1	3.10	T45	R38	C2-GD
	72	2 7/8"	235	9 1/2"	4	4.45	T45	T51	C2-GH

05 | Bench Drilling Equipment

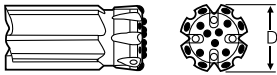
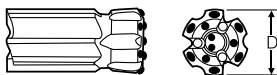


► T51(2") Series

Bit	Carbide Shape	Dimension		Buttons*Button Dia						Gauge	Flushing		Approx		Part No.
		Dia		Gauge		Front		Center		Buttons	Hole		Weight		
		mm	inch	EA	mm	EA	mm	EA	mm	Angle	front	side	kg	lb	
 Flat Face	SP	89	3 1/2"	9	11	6	10			35	3		3.4	3.85	B08-089S-A1-1
	BA	89	31/2"	9	11	6	10			35	3		3.4	3.85	B08-089B-A1-1
	SP	102	4"	9	12	7	12			35	3		4.4	4.85	B08-102S-A1-1
	BA	102	4"	9	12	7	12			35	3		4.4	4.85	B08-102B-A1-1
 Flat Face	SP	102	4"	8	14	5	12			35	4		4.5	4.95	B08-102S-A5-2
	BA	102	4"	8	14	5	12			35	4		4.5	4.95	B08-102B-A5-2
	SP	115	4 1/2"	8	14	7	13			35	4		5.3	5.75	B08-115S-A5-2
	BA	115	4 1/2"	8	14	7	13			35	4		5.3	5.75	B08-115B-A5-2
	SP	127	5"	8	14	7	14			35	4		6.1	6.55	B08-127S-A5-2
	BA	127	5"	8	14	7	14			35	4		6.1		B08-127B-A5-2
 Drop Center	SP	89	3 1/2"	8	12	4	11	1	11	35	4		3.3	3.75	B08-089S-D5-2
	BA	89	3 1/2"	8	12	4	11	1	11	35	4		3.3	3.75	B08-089B-D5-2
	SP	89	3 1/2"	8	13	4	11	1	11	35	4		3.3	3.75	B08-089S-D5-2
	BA	89	3 1/2"	8	13	4	11	1	11	35	4		3.3	3.75	B08-089B-D5-2
	SP	102	4"	8	14	4	12	1	12	35	4		4.7	5.15	B08-102S-D5-2
	BA	102	4"	8	14	4	12	1	12	35	4		4.7	5.15	B08-102B-D5-2
	SP	102	4"	8	14	4	14	1	14	35	4		4.8	5.25	B08-102S-D5-2
	BA	102	4"	8	14	4	14	1	14	35	4		4.8	5.25	B08-102B-D5-2
	SP	115	4 1/2"	8	14	4	13	3	13	35	4		5.7	6.15	B08-115S-D5-2
	BA	115	4 1/2"	8	14	4	13	3	13	35	4		5.7	6.15	B08-115B-D5-2
	SP	127	5"	8	14	4	13	3	14	35	4		6.7	7.15	B08-127S-D5-2
	BA	127	5"	8	14	4	13	3	14	35	4		6.7	7.15	B08-127B-D5-2
 Heavy Duty	SP	89	3 1/2"	8	13	5	13			35	2		3.2	3.65	B08-089S-F1-2
	SP	102	4"	8	14	6	14			35	2		4.7	5.15	B08-102S-F1-2
	SP	115	4 1/2"	8	14	6	14			35	2		6	6.45	B08-115S-F1-2
	SP	127	5"	8	14	7	14			35	2		6.3	6.75	B08-127S-F1-2

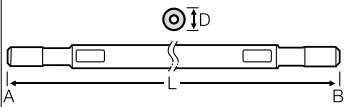


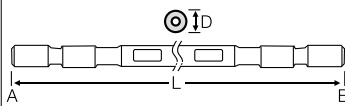
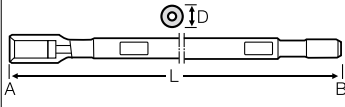
► T51(2") Series

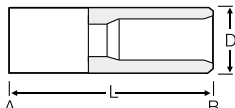
Bit	Carbide Shape	Dimension		Buttons*Button Dia						Gauge	Flushing		Approx		Part No.
		Dia		Gauge		Front		Center		Buttons	Hole		Weight		
		mm	inch	EA	mm	EA	mm	EA	mm	Angle	front	side	kg	lb	
 Retract Flat Face	SP	89	3 1/2"	8	11	6	11			35	4	1	5.2	5.65	B08-089S-D5-1
	BA	89	3 1/2"	8	11	6	11			35	4	1	5.2	5.65	B08-089B-D5-1
	SP	89	3 1/2"	8	12	6	11			35	4	1	5.2	5.65	B08-089S-D5-1
	BA	89	3 1/2"	8	12	6	11			35	4	1	5.2	5.65	B08-089B-D5-1
	SP	102	4"	8	12	6	11			35	4	1	6.9	7.35	B08-102S-D5-1
	BA	102	4"	8	12	6	11			35	4	1	6.9	7.35	B08-102B-D5-1
	SP	102	4"	8	13	6	12			35	4	1	6.9	7.35	B08-102S-D5-1
	BA	102	4"	8	13	6	12			35	4	1	6.9	7.35	B08-102B-D5-1
	SP	115	4 1/2"	8	14	7	12			35	4		8.3	8.75	B08-115S-D5-2
	BA	115	4 1/2"	8	14	7	12			35	4		8.3	8.75	B08-115B-D5-2
	SP	127	5"	8	14	7	14			35	4		10.1	10.55	B08-127S-D5-2
	BA	127	5"	8	14	7	14			35	4		10.1	10.55	B08-127B-D5-2
SP	89	3"	8	11	4	11	2	9	35	4	1	5.2	5.65	B08-089S-E5-2	
 Retract Drop Center	BA	89	3"	8	11	4	11	2	9	35	4	1	5.2	5.65	B08-089B-E5-2
	SP	89	3 1/2"	8	12	4	11	2	11	35	4	1	5.2	5.65	B08-089S-E5-2
	BA	89	3 1/2"	8	12	4	11	2	11	35	4	1	5.2	5.65	B08-089B-E5-2
	SP	102	3 1/2"	8	12	4	11	2	11	35	4	1	6.9	7.35	B08-102S-E5-2
	BA	102	3 1/2"	8	12	4	11	2	11	35	4	1	6.9	7.35	B08-102B-E5-2
	SP	102	3 3/4"	8	13	4	11	2	11	35	4	1	6.9	7.35	B08-102S-E5-2
	BA	102	3 3/4"	8	13	4	11	2	11	35	4	1	6.9	7.35	B08-102B-E5-2
	SP	115	4 1/2"	8	14	4	13	3	13	35	4		8.2	8.65	B08-115S-E5-2
	BA	115	4 1/2"	8	14	4	13	3	13	35	4		8.2	8.65	B08-115B-E5-2
	SP	127	5"	8	14	4	14	3	14	35	4		10	10.45	B08-127S-E5-2
	BA	127	5"	8	14	4	14	3	14	35	4		10	10.45	B08-127B-E5-2

05 | Bench Drilling Equipment

► T51(2") Series

Extension Rod	Round D		Length		Approx' Weight		Thread		Part No.
	mm	inch	mm	ft	kg	lb	A	B	
<div>Round Single Rod</div> 	51	2"	3660	12'	50	50.45	T51	T51	E-R51HH-3660-A
			4270	14'	61	61.45			E-R51HH-4270-A
			6100	20'	87	87.45			E-R51HH-6100-A

Extension Rod	Round D		Length		Approx' Weight		Thread		Part No.
	mm	inch	mm	ft	kg	lb	A	B	
<div>Round Tandem Rod</div> 	51	2"	3660	12'	49.5	49.95	T51	T51	E-R51HH-3660-B
			4270	14'	59	59.45			E-R51HH-4270-B
<div>Round M/F Rod</div> 	51	2"	3660	12'	53	53.45	T51	T51	M-R51HH-3660-A
			4270	14'	61.6	62.05			M-R51HH-4270-A

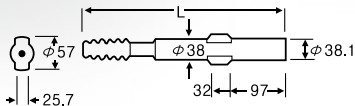
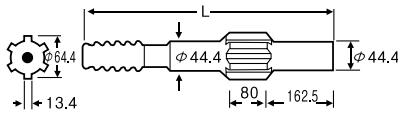
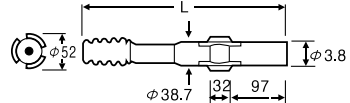
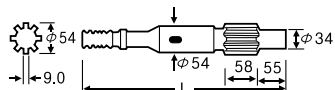
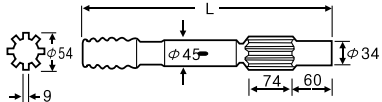
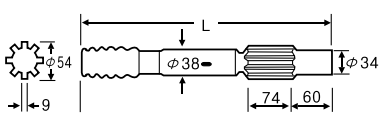
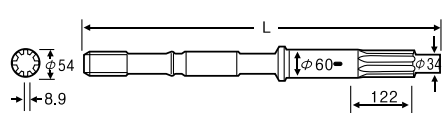
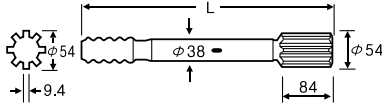
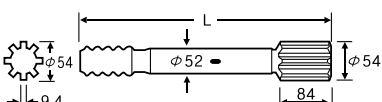
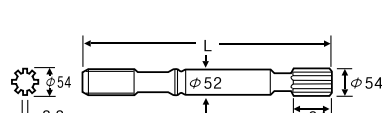
Coupling Sleeve	Round D		Length		Approx' Weight		Thread		Part No.
	mm	inch	mm	inch	kg	lb	A	B	
	76	3"	228	9"	4.1	4.55	T51	T51	C1-HH

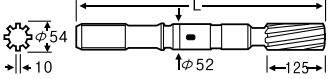
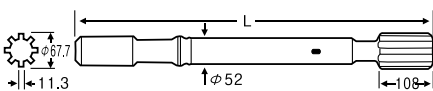
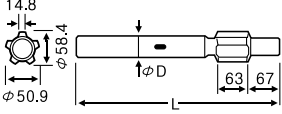
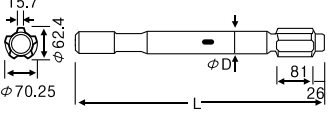
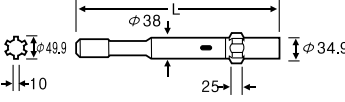
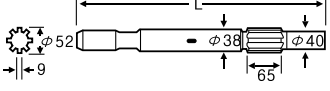
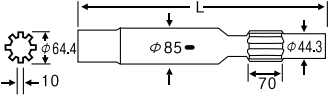
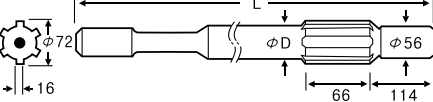
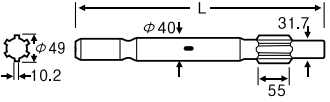
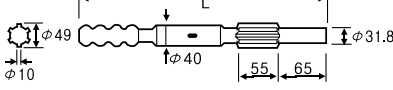
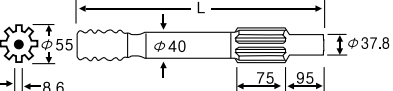
06 | Shank Adapter

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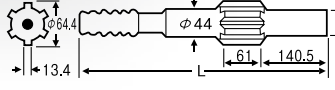
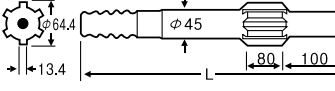
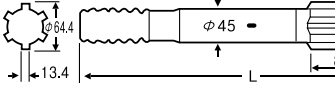
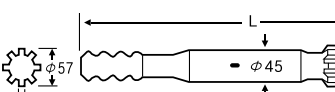


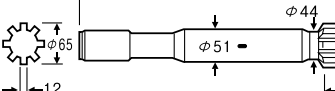
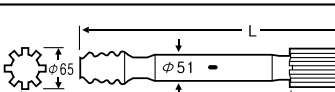
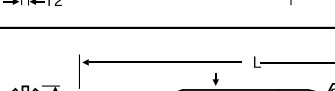

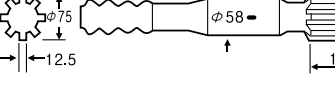
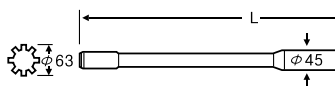
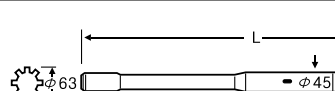
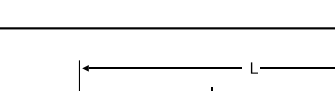
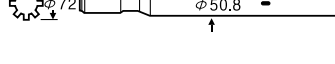

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ATLAS	BBC51/52/54/120	A 01	JUNJIN	JET7	F 06
	BBE56U2/BBE57	A 02		JET9	F 14
	COP125/130/131	A 03	KOMATSU	KDH100(4Spline)	K 01
	COP1032HD	A 04		KDH100(8Spline)	K 02
	COP1036HB/1038HB/1238LE/1238ME	A 05	KLEMM	4026/4053	K 03
	COP1038H/1238ME		KRUPP	HB103	K 04
	COP1038HL/1238ME	A 06		HB30A/40A	K 05
	COP1338MEX	A 07		HB30A/40A	K 06
	COP1440/1838	A 08	MONTABERT	HC40	M 01
	COP1550/1838ME	A 09		H40/50/60/70	A 01
	COP1550, 1838HO/ME/HE	A 10		HC80	M 02
	COP1840EX, 1850	A 11		H100	A 02
	Atlas Copco 4050	A 12		HC120	M 03
BOART	HD125/150/HE125/150	B 01		HC80RP	M 04
	HD155	B 02		HC120R	M 05
BÖHLER	HS432S	B 03		HC120/HC150	M 06
	HS448	B 04		HC80R/HC120R/HC150R	M 07
	HS464	B 05		HC80R/HC120R/HC150R	M 08
DNS	DNT3	D 01		HC200R	M 09
FURUKAWA	HD75	F 01	MITSU	RPH400/600, DCH400/600	M 10
	HD90	F 02		DCH400/600	D 01
	HD180	F 03		RPH200/HYDRASTAR 200/300	M 11
	HD200	F 04		TR300/350A/400	F 18
	HD300	F 05	MITSUBISHI	MCD6G	M 12
	HD500	D 01	SIG	HBM100	S 01
	HD609	F 06		HBM150	S 02
	HD609RP	F 07	SECOMA	HYDRASTAR200	S 03
	HD612	F 08	SOOSAN	SP3	D 01
	HD612RP	F 09		SP3G	F 06
	HD612QED	F 10		SP6	F 08
	HD615	F 11	TAMROCK	HL300	T 01
	HD709	F 12		HL500/500S	T 02
	HD709RP	F 13		HL500-38/510-38	T 03
	HD712	F 14		HL500-45/510-45	T 04
	HD712RP	F 15		HL500S-38/510B/510LH	T 05
	HD715	F 16		HL550SUPER	T 06
	HD715RP	F 17		HL550S/560S	T 07
	PD200/M120	F 18		HL600-45	T 08
GARDNER DENVER	PR66	G 01		HL600-52	T 09
	HPR1H	G 02		HL600S-45	T 10
	HPR 2H	G 03		HL645/645S	T 11
	PR123VS	F 18		HL700-45	T 12
	PR133	G 04		HL700-52	T 13
I.R	LM400	A 02		HL844	J 02
	YH50/55	I 01		HL850	T 14
	YH50RP/55RP	I 02		HL1000/1000S	T 15
	YH60/60A	A 02		HL1000-52	T 16
	LM500/YH65/70S/80	I 03		HL1500	T 17
	YH65RP/70RP/80RP	I 04		HL1500-60	T 18
	YH95/YH100	I 05		HLX5	T 19
	YH95RP/YH 100RP	I 06		HLR438L/438T, L550S(SF)	S 01
	YH110V/YH135V	I 07	TEISAKU	TR300	F 18
	YD90M/100M	I 08		TRH200	I 08
JOY	YD130M/135/145	F 18	TOYO	TH500/501/501S/550	T 20
	URD475/550V/120/VL140/EVL130	F 18		TH800/900	T 21
	VCR361	J 01		TH900(L)	T 22
	VCR260/360	J 02		TYPR120/220	F 18

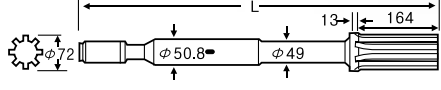
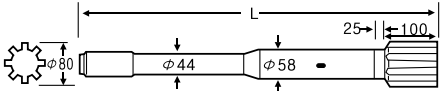
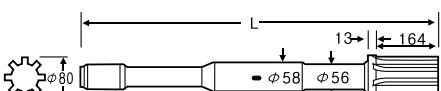
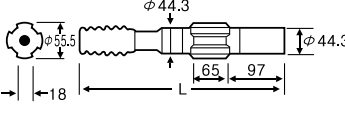
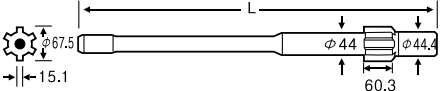
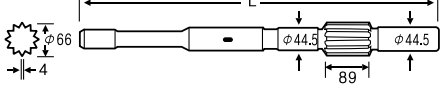
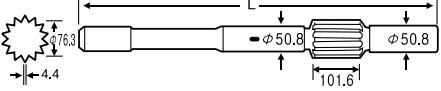
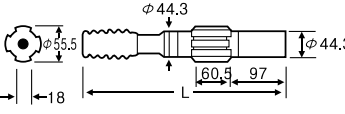
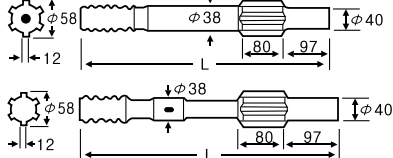
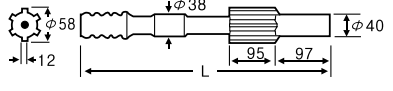
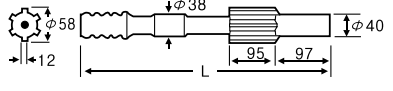
06 | Shank Adapter

S.N	Drifter	Rock Drill	Thread	Flushing Tube Dia	Length	Approx Weight	Part No.
A01		ATLAS BBC51/52/54/120 MONTABERT H40/50/60/70	R32	10	380	2.7	SA01-C380-T
			R38	10	390	3.1	SA01-D390-T
			T38	10	390	3.1	SA01-F390-T
A02		ATLAS BBE56U2/BBE57 I.R(YAMAMOTO)YH60/60A MONTABERT H100 I.R LM400	T38	14	530	5.5	SA02-F530-T
			R38	14	447	4.8	SA02-D447-T
			T45	14	550	5.8	SA02-G550-T
A03		ATLAS COP125/130/131	R32	14	380	2.7	SA03-C380-T
			T38	14	380	3.0	SA03-F380-T
A04		ATLAS COP1032HD	R32	SF	340	3.5	SA04-C340-S
A05		ATLAS COP1036HB/1038HB /1238LE/1238ME	R32	SF	500	4.1	SA06-C500-S
			T38	SF	500	4.3	SA06-F500-S
			T38	SF	590	5.0	SA06-F590-S
			T45	SF	500	5.1	SA06-G500-S
		ATLAS COP1038H/1238ME	T45	SF	590	6.3	SA06-G590-S
			T38	SF	575	5.5	SA06-F575-S
			R38	SF	485	4.3	SA06-D485-S
			T38	SF	485	4.3	SA06-F485-S
A06		ATLAS COP1038HL/1238ME	R32	SF	575	4.0	SA07-C575-S
			T38	SF	575	4.9	SA07-F575-S
A07		ATLAS COP 1338MEX	T45	SF	780	10.5	SA08-G780-T
A08		ATLAS COP 1440/1838	T38	SF	435	4.4	SA09-F435-S
			R38	SF	435	4.4	SA09-D435-S
			R32	SF	525	5.3	SA09-C525-S
A09		ATLAS COP1550/1838ME	T38	SF	525	5.8	SA10-F525-S
			T45	SF	525	5.8	SA10-G525-S
			T51	SF	525	6.2	SA10-H525-S
A10		ATLAS COP1550, 1838HO/ME/HE	R32	SF	525	5.7	SA11-C525-S
			T38	SF	525	6.1	SA11-F525-S
			T45	SF	525	6.2	SA11-G525-S
			T51	SF	525	6.8	SA11-H525-S

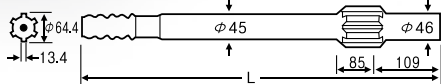

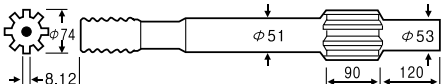
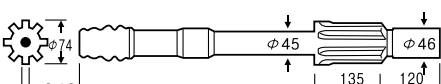
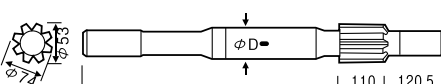
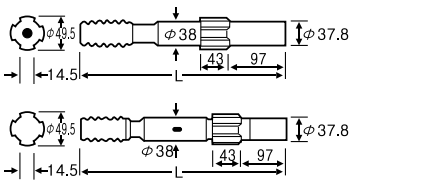
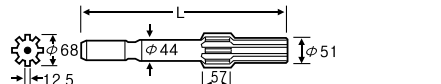
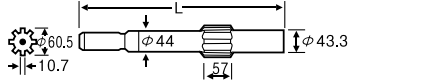
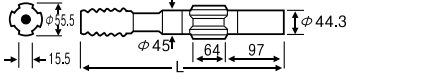
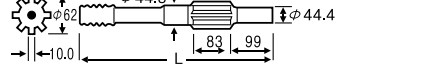
S.N	Drifter	Rock Drill	Thread	Flushing Tube Dia	Length	Approx Weight	Part No.
A11		ATLAS COP1840EX. 1850	T45	SF	565	6.9	SA12-G565-S
			T51	SF	565	7.1	SA12-H565-S
A12		ATLAS 4050	T51	SF	605	10.5	SA13-H605-S
B01		BOART HD125/150/ HE125/150	R32	SF	428	4.0	SB01-C428-S
B02		BOAR THD155	R32	SF	580	8.6	SB02-C580-S
B03		BÖHLER HS432S	R38	SF	440	3.2	SB03-D440-S
			T38	SF	440	3.2	SB03-F440-S
			R32	SF	475	3.3	SB03-C475-S
B04		BÖHLER HS448	R32	SF	500	4.1	SB04-C500-S
			R38	SF	500	4.3	SB04-D500-S
			T38	SF	500	4.3	SB04-F500-S
B05		BÖHLER HS464	T38	SF	625	11.6	SB-05-F625-S
			T45	SF	625	11.5	SB-05-G625-S
D01		DNS DNT3 FURUKAWA HD500 MITSUI DCH400/600 SOOSAN SP3	R38	16	635	8.0	SD01-D635-T
			T38	16	620	8.0	SD01-F620-T
			T38	16	635	8.0	SD01-F635-T
			T45	16	620	8.0	SD01-G620-T
			T45	16	635	8.3	SD01-G635-T
			T51	16	635	8.8	SD01-H635-T
			T45	16	640	8.3	SD01-G640-T
F01		FURUKAWA HD75	R32	SF	425	3.3	SF01-C425-S
			R38	SF	425	3.5	SF01-D425-S
F02		FURUKAWA HD90	R32	SF	515	4.0	SF02-C515-S
			R38	SF	515	4.3	SF02-D515-S
F03		FURUKAWA HD180	T38	14	565	5.0	SF03-F565-T

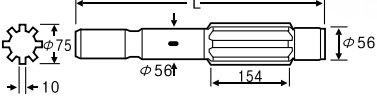
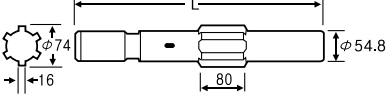
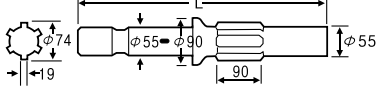
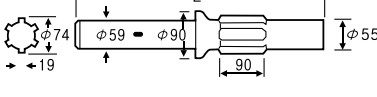
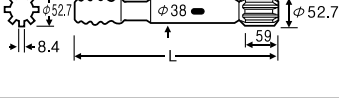

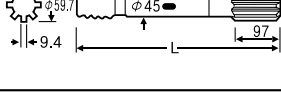
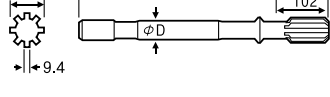
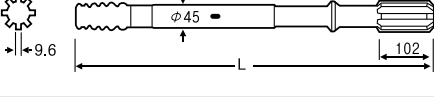
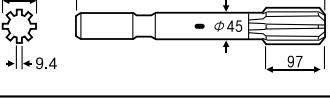
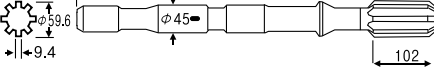
06 | Shank Adapter

S.N	Drifter	Rock Drill	Thread	Flushing Tube Dia	Length	Approx Weight	Part No.
F04		FURUKAWA HD200	R38	14	550	5.8	SF04-D550- T
			T38	14	550	5.8	SF04-F550- T
F05		FURUKAWA HD300	T38	16	655	6.1	F05-F655-T
			T45	16	655	6.5	F05-G655-T
F06		FURUKAWA HD609	T45	SF	786	8.4	F05-G786-S
			T45	SF	786	8.4	F05-G786-S
F06		FURUKAWA HD609	T38	SF	620	5.7	SF06-F620-S
			T45	SF	620	5.7	SF06-G620-S
F07		JUNJIN JET7	T38	SF	690	6.4	SF06-F690-S
			T45	SF	690	7.1	SF06-G690-S
F07		SOOSAN SP3G	T38	SF	690	6.4	SF06-F690-S
			T45	SF	690	7.1	SF06-G690-S
F08		FURUKAWA HD612	T38	SF	710	9.0	SF08-F710-S
			T45	SF	720	9.2	SF08-G720-S
F09		SOOSA NSP6	T45	SF	700	9.1	SF08-G700-S
			T45	SF	700	9.1	SF08-G700-S
F09		FURUKAWA HD612RP	T38	SF	845	10.6	SF09-F845-S
			T45	SF	845	11.0	SF09-G845-S
F10		FURUKAWA HD612RP	T51	SF	845	11.4	SF09-H845-S
			T51	SF	845	11.4	SF09-H845-S
F10		FURUKAWA HD612QED	T45	SF	845	10.8	SF10-G845-S
			T51	SF	845	11	SF10-H845-S
F11		FURUKAWA HD615	T45	SF	700	11	SF11-G700-S
			T51	SF	700	11.7	SF11-H700-S
F12		FURUKAWA HD615	T51	SF	876	14.0	SF11-H876-S
			T51	SF	876	14.0	SF11-H876-S
F12		FURUKAWA HD709	T38	SF	620	6.5	SF13-F620-S
F13		FURUKAWA HD709RP	T38	SF	814	9.1	SF14-F814-S
F14		FURUKAWA HD712	T45	SF	592	8.4	SF15-G592-S
			T45	SF	790	9.9	SF15-G790-S
F15		JUNJIN JET9	T51	SF	790	10.8	SF15-H790-S

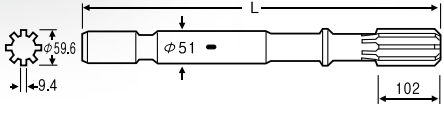
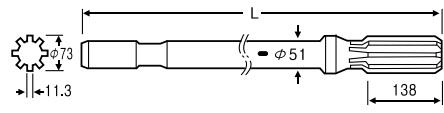
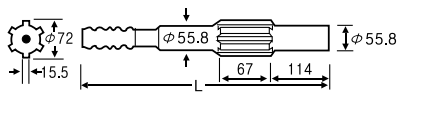
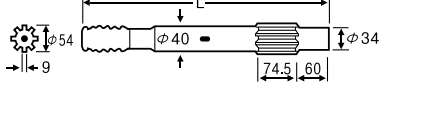
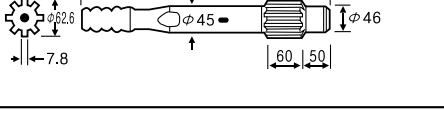
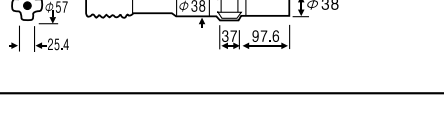
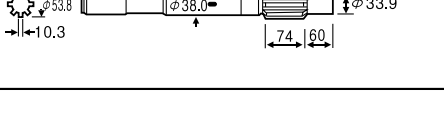
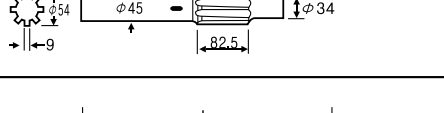
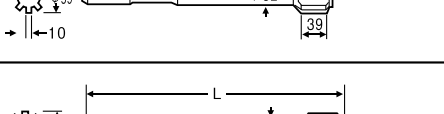

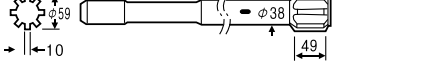
S.N	Drifter	Rock Drill	Thread	Flushing Tube Dia	Length	Approx Weight	Part No.
F15		FURUKAWA HD712RP	T45	SF	787	11.9	SF16-G787-S
			T45	SF	885	12.7	SF16-G885-S
			T51	SF	885	13.4	SF16-H885-S
F16		FURUKAWA HD715	T51	SF	790	12.7	SF17-H790-S
F17		FURUKAWA HD715RP	T51	SF	885	16.2	SF18-H885-S
F18		FURUKAWA PD200/M120	R32	14	355	4.0	SF19-C355-T
		MITUSI TR300/350A/400	R38	14	355	4.0	SF19-D355-T
		TOYO TYPR120/220	T38	14	380	4.3	SF19-F380-T
		TAMROCK L600/750	T38	14	446	5.0	SF19-F446-T
		YAMAMOTO YD 130M/135/145	T45	14	446	5.0	SF19-G446-T
		TEISAKU TR300					
G01		G.D PR66	T38	16	711	6.2	SG01-F711-T
			T45	16	711	6.5	SG01-G711-T
G02		G.D HPR1H	R38	SF	725	7.9	SG02-D725-S
			T38	SF	725	7.9	SG02-F725-S
			T45	SF	725	8.2	SG02-G725-S
G03		G.D HPR2H	T45	SF	915	13.5	SG03-G915-S
			T51	SF	915	13.8	SG03-H915-S
G04		G.D. PR133	T38	16	446	4.5	SG04-F446-T
			T45	16	446	4.8	SG04-G446-T
I01		I.R YH50/55	R38	16	440	3.7	SI01-D440- T
			T38	16	440	3.7	SI01-F440-T
			T38	16	450	3.8	SI01-F450-T
I02		I.R YH50RP/55RP	T38	SF	517	5.1	SI01-D517-T
			T38	SF	517	5.1	SI01-F517-T
I02		I.R YH50RP/55RP	T38	16	540	4.3	SI02-F540-T

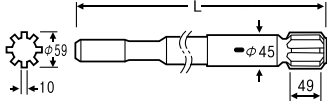
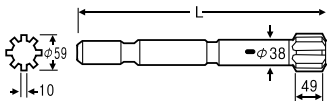
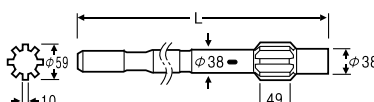
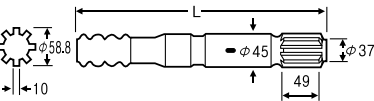
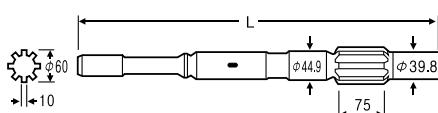
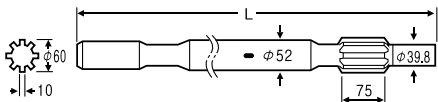
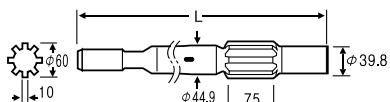
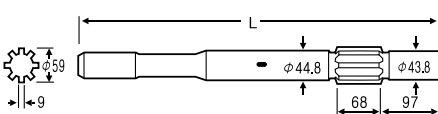
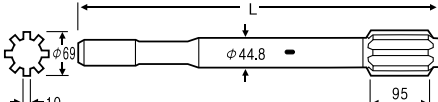
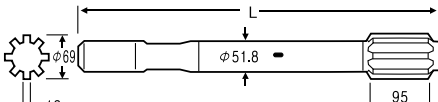
06 | Shank Adapter

S.N	Drifter	Rock Drill	Thread	Flushing Tube Dia	Length	Approx Weight	Part No.
I 03		I.R LM500/YH65/70S/80	T38	19	705	7.8	SI03-F705-T
			T38	19	480	5.0	SI03-F480-T
			T45	19	705	7.8	SI03-G705-T
			T45	19	480	5.0	SI03-G480-T
			T45	19	500	5.4	SI03-G500-T
			T45	19	600	6.8	SI03-G600-T
I 04		I.R YH65RP/70RP/80RP	T38	19	700	7.6	SI04-F700-T
			T45	19	700	7.9	SI04-G700-T
I 05		I.R YH95/YH100	T45	19	625	7.4	SI05-G625-T
			T51	19	625	8.3	SI05-H625-T
I 06		I.R YH95RP/YH 100RP	T45	19	840	10.5	SI06-G840-T
			T51	16	840	10.9	SI06-H840-T
I 07		I.R. YH110V/YH135V	T45	SF	728	11.4	SI07-G728-S
			T51	SF	728	11.7	SI07-H728-S
I 08		I.R YD90M/100M TEISAKU TRH200	R32	11	330	2.4	SI08-C330-T
			T38	11	330	2.6	SI08-F330-T
			R32	SF	480	3.4	S08-C480-S
			R38	SF	480	3.7	S08-D480-S
J 01		JOY VCR361	T38	19	440	5.0	SJ01-F440-T
			T45	19	440	5.1	SJ01-G440-T
J 02		JOY 260/360 TAMROCK HL844	R38	16	450	4.4	SJ02-D450-T
			T38	16	450	4.2	SJ02-F450-T
			T45	16	450	4.4	SJ02-G450-T
K01		KOMATSU KDH100(4Spline)	T38	14	455	3.5	SK01-F455-T
K02		KOMATSU KDH100(8Spline)	T38	14	460	3.6	SK01-F460-T
			T45	14	530	4.1	SK01-G530-T

S.N	Drifter	Rock Drill	Thread	Flushing Tube Dia	Length	Approx Weight	Part No.
K03		KLEMM 4026/4053	R55LI A55RE	SF	500	10.5	SK03-J500-N
				SF	500	10.5	SK03-K500-N
K04		KRUPP HB103	R55 LI A55RE	SF	500	9.4	SK04-J500-N
				SF	500	9.4	SK04-K500-N
K05		KRUPP HB30A/40A	R55LI A55RE	SF	580	12.0	SK05-J580-N
				SF	580	12.0	SK05-K580-N
K06		KRUPP HB30A/40A	C64LI	SF	580	13.3	SK06-L580-N
M01		MONTABERT HC40	R32	SF	366	3.5	SM01-C366-S
			R38	SF	372	3.5	SM01-D372-S
			T38	SF	447	3.6	SM01-F447-S
M02		MONTABERT HC80	R32	SF	500	4.1	SM02-C500-S
			R38	SF	440	4.4	SM02-D440-S
			T38	SF	500	4.1	SM02-F500-S
			T38	SF	440	3.7	SM02-F440-S
M03		MONTABERT HC120	T38	SF	490	5.4	SM03-F490-S
			T45	SF	490	5.6	SM03-G490-S
M04		MONTABERT HC80RP	T45	SF	670	7.5	SM04-G670-S
M05		MONTABERT HC120R	T45	SF	670	9.7	SM05-G670-S
M06		MONTABERT HC120/HC150	T38	SF	490	5.3	SM06-F490-S
			T45	SF	490	5.6	SM06-G490-S
M07		MONTABERT HC80R/ HC120R/HC150R	T45	SF	670	7.3	SM07-G670-S
			T45	SF	771	8.0	SM07-G771-S

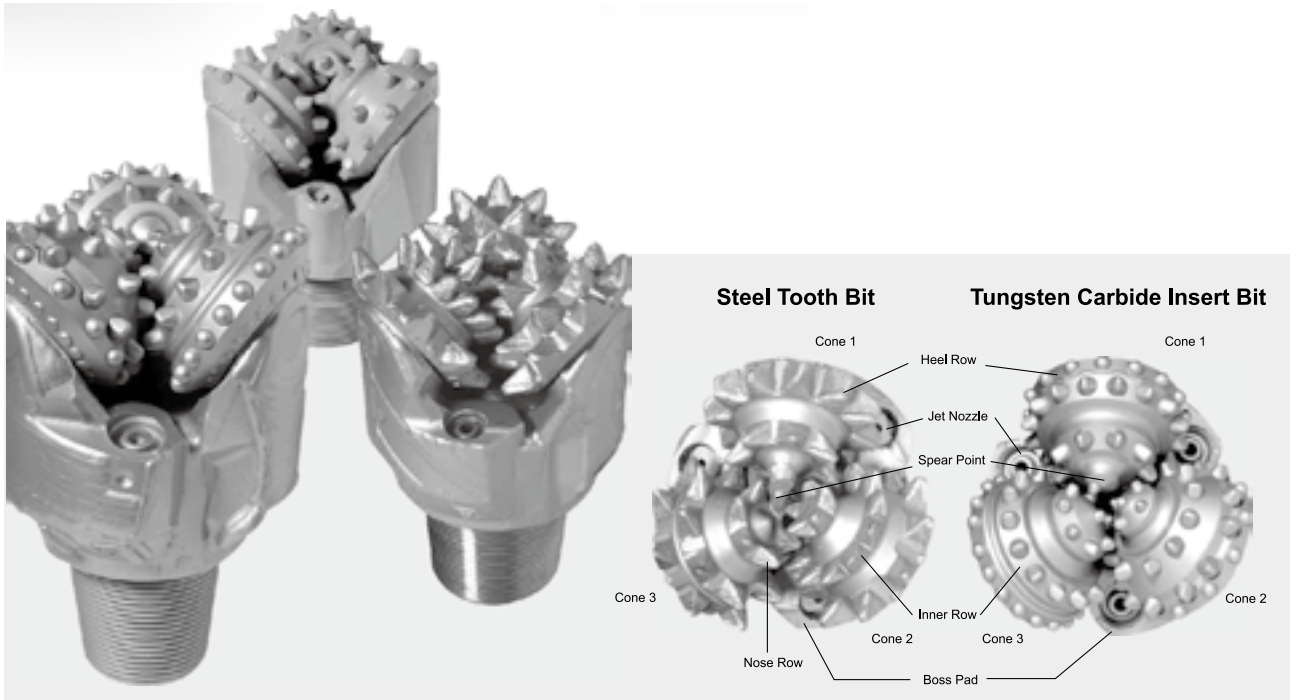
06 | Shank Adapter

S.N	Drifter	Rock Drill	Thread	Flushing Tube Dia	Length	Approx Weight	Part No.
M08		MONTABERT HC80R/ HC120R/HC150R	T45	SF	670	9.0	SM08-G670-S
			T51	SF	670	9.2	SM08-H670-S
			T45	SF	771	9.7	
			T51	SF	771	10.2	SM08-H771-S
M09		MONTABERT HC200R	T51	SF	840	13.5	SM09-H840-S
M10		MITSU RPH400/600 DCH400/600	T38	14	450	8.0	SM10-F450-T
			T38	14	520	9.2	SM10-F520-T
			T45	14	470	5.7	SM10-G470-T
			T38	14	610	11.0	SM10-F610-T
M11		MITSU RPH200/ HYDRASTAR 200/300	R38	SF	467	4.1	SM11-D467-S
M12		MITSUBISHI MCD6G	T38	SF	470	5.4	SM12-F470-S
S01		SIG HBM100 TAMROCK HLR438L/438T, L550S(SF)	R32	12.7	380	2.7	ST01-C380-T
			R38	12.7	380	3.2	ST01-D380-T
S02		SIGBM150	R32	SF	500	3.9	SM02-C500-S
			T38	SF	500	4.2	SM02-F500-S
S03		SECOMA HYDRASTAR200	R32	SF	351	3.6	SM03-C351-S
T01		TAMRACK HL300	R32	SF	400	2.6	ST01-C400-S
T02		TAMROCK HL500/500S	R32	SF	550	4.1	ST02-C550-S
			T38	SF	550	4.6	ST02-F550-S
			T38	SF	480	4.1	ST02-F480-S
			R38	SF	460	3.9	ST02-D460-S
			T45	SF	550	4.5	ST02-G550-S
T03		TAMROCK HL500-38/510-38	R32	SF	550	4.3	ST03-C550-S
			R38	SF	550	4.5	ST03-D550-S
			T38	SF	550	4.6	ST03-F550-S

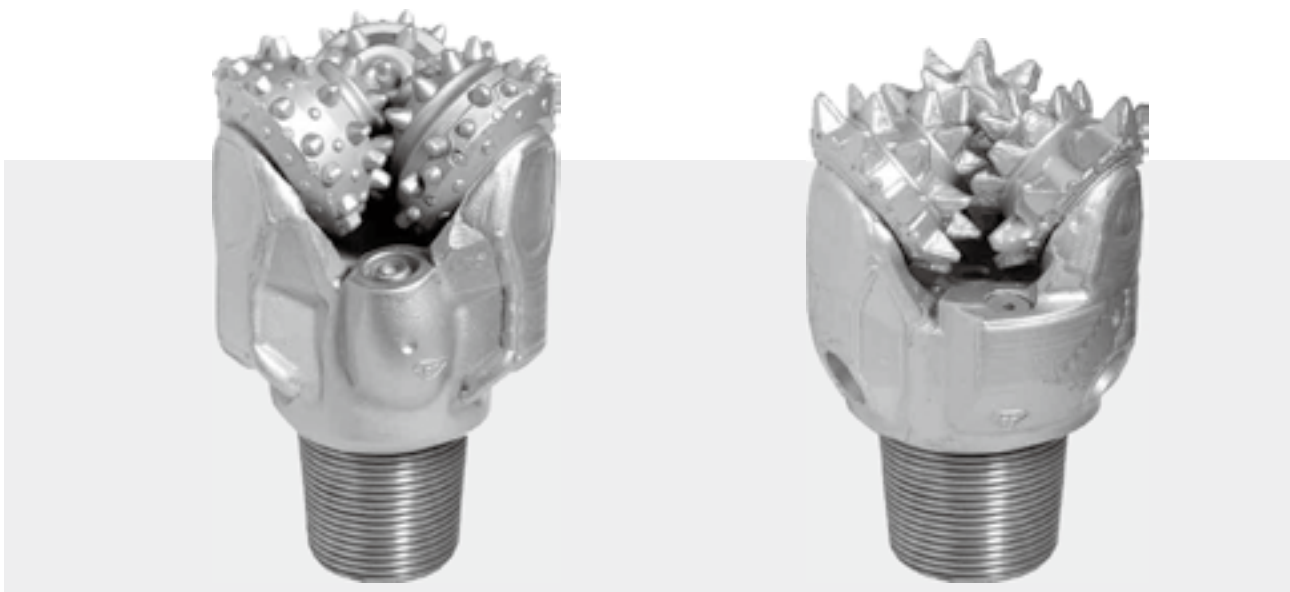
S.N	Drifter	Rock Drill	Thread	Flushing Tube Dia	Length	Approx Weight	Part No.
T04		TAMROCK HL500-45/510-45	T38	SF	550	5.4	ST04-F550-S
			T45	SF	550	5.6	ST04-G550-S
T05		TAMROCK HL500 S-38/510B/510LH	R32	SF	450	3.8	ST05-C450-S
			R38	SF	450	4.0	ST05-D450-S
			T38	SF	450	4.0	ST05-F450-S
T06		TAMROCK HL550SUPER	R38	SF	505	4.3	ST06-D505-S
			T38	SF	505	4.3	ST06-F505-S
T07		TAMROCK HL550S/560S	R38	SF	500	5.4	ST07-D500-S
			T38	SF	500	5.4	ST07-F500-S
T08		TAMROCK HL600-45	R38	SF	600	6.1	ST09-D600-S
			T38	SF	600	6.1	ST09-F600-S
			T45	SF	600	6.3	ST09-G600-S
T09		TAMROCK HL600-52	T51	SF	650	8.3	ST10-H650-S
			T51	SF	710	8.9	ST10-H710-S
T10		TAMROCK HL600 S-45	T38	SF	525	5.7	ST11-F525-S
T11		TAMROCK HL645/645S	R32	SF	600	6.3	ST12-C600-S
			R32	SF	525	5.5	ST12-C525-S
			T38	SF	600	6.6	ST12-F600-S
			T38	SF	525	5.8	ST12-F525-S
			T45	SF	600	6.9	ST12-G600-S
T12		TAMROC KHL700-45	T38	SF	600	7.1	ST14-F600-S
			T45	SF	600	7.3	ST14-G600-S
T13		TAMROCK HL700-52	T45	SF	600	8.4	ST15-G600-S
			T51	SF	600	8.4	ST15-H600-S

07 | TRICONE Drill Bits

PLATINUM | Classic | Standard



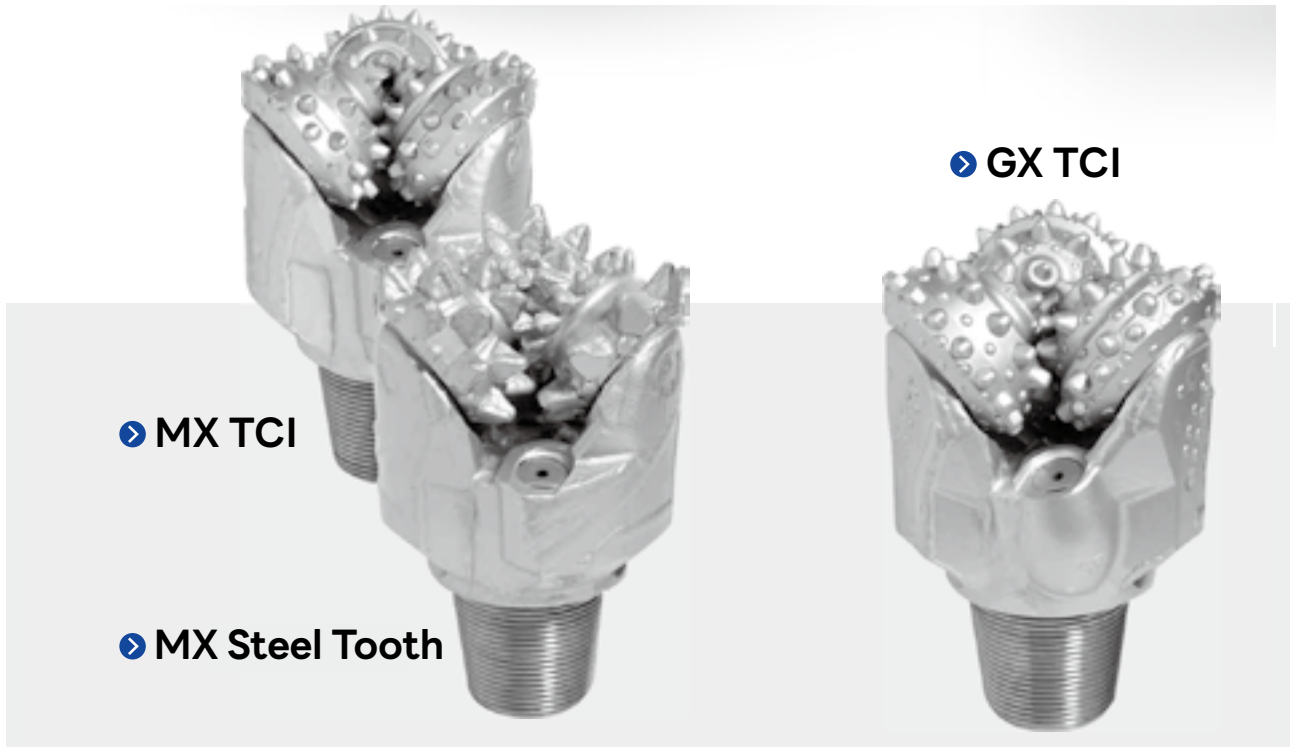
08 | Platinum Tricone Drill Bits



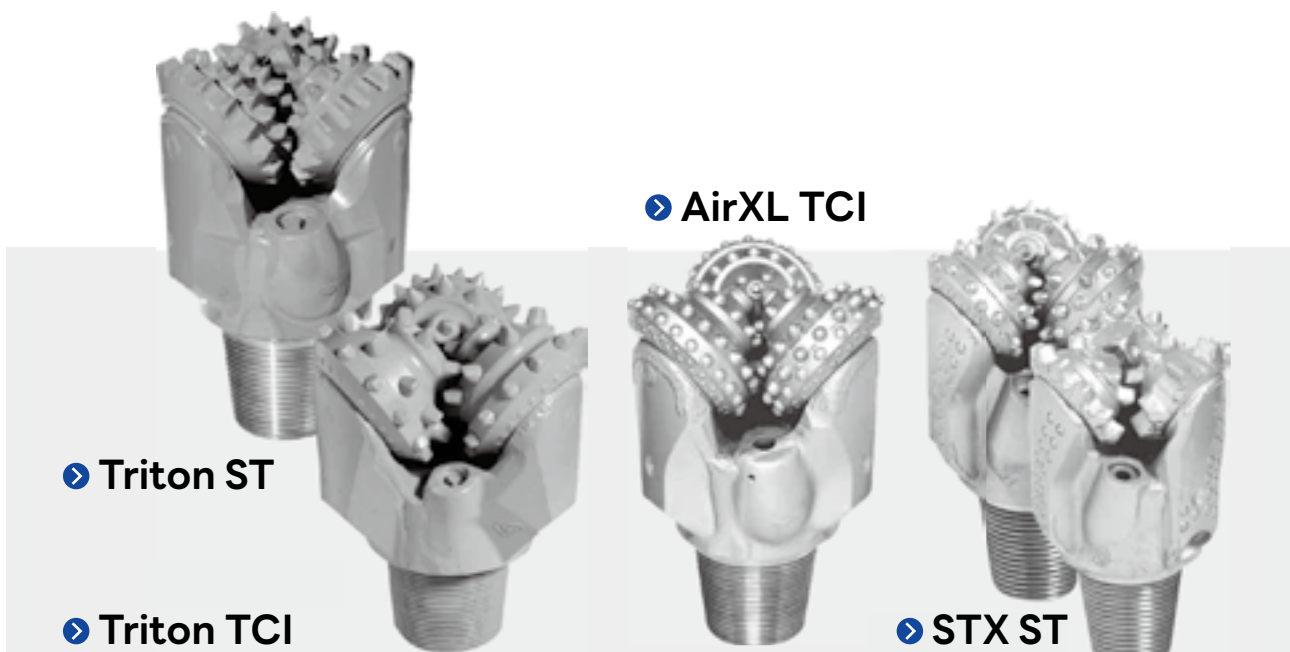
► Vanguard TCI

► Vanguard ST

09 | Classic Tricone Drill Bits



10 | Standard Tricone Drill Bits



11 | Size and Weight

Tungsten Carbide Product Line

Bit Size		API	Approximate Weight	
<i>inch</i>	<i>mm</i>	<i>Pin</i>	<i>lb</i>	<i>kg</i>
3 3/4	95.3	2 3/8	14	6.4
3 7/8	98.4	2 3/8	14	6.4
4 1/8	104.8	2 3/8	16	7.3
4 1/2	114.3	2 3/8	20	9.0
4 5/8	117.5	2 7/8	20	9.0
4 3/4	120.3	2 7/8	22	10.0
4 7/8	123.8	2 7/8	22	10.0
5	127.0	2 7/8	21	9.5
5 1/4	133.4	2 7/8	25	11.4
5 1/2	139.7	3 1/2	29	13.2
5 5/8	142.9	3 1/2	29	13.2
5 3/4	146.1	3 1/2	35	15.9
5 7/8	149.2	3 1/2	39	17.7
6	152.4	3 1/2	40	18.1
6 1/8	155.6	3 1/2	40	18.1
6 1/4	158.8	3 1/2	41	18.6
6 1/2	165.1	3 1/2	48	21.8
6 5/8	168.3	3 1/2	49	22.2
6 3/4	171.4	3 1/2	50	22.7
7 1/2	190.5	4 1/2	76	34.5
7 5/8	193.7	4 1/2	78	35.4
7 7/8	200.0	4 1/2	80	36.3
8 1/4	209.6	4 1/2	90	40.8
8 3/8	212.7	4 1/2	92	41.7
8 1/2	215.9	4 1/2	94	42.6
8 5/8	219.1	4 1/2	95	43.1
8 3/4	222.2	4 1/2	96	43.5
8 7/8	225.4	4 1/2	96	43.5
9	228.6	4 1/2	110	49.9
9 1/4	235.0	6 5/8	125	56.7
9 1/2	241.3	6 5/8	145	65.8
9 7/8	250.8	6 5/8	155	70.3
10 1/2	266.7	6 5/8	175	79.4
10 5/8	269.9	6 5/8	175	79.4
11	279.4	6 5/8	180	81.6
11 5/8	295.3	6 5/8	193	87.7
11 7/8	301.6	6 5/8	234	106.1
12	304.8	6 5/8	235	106.6
12 1/8	308.0	6 5/8	240	108.9
12 1/4	311.1	6 5/8	245	111.1
12 1/2	317.5	6 5/8	250	113.4
13 1/2	342.9	6 5/8	296	134.5
14	355.6	6 5/8	300	136.1
14 3/4	374.6	7 5/8	345	156.5
15 1/2	393.7	7 5/8	400	181.4
16	406.4	7 5/8	510	231.3
17	431.6	7 5/8	541	245.9
17 1/2	444.5	7 5/8	560	254.0
18 1/2	469.9	7 5/8	600	272.2
19	482.6	8 5/8	778	353.6
20	508.0	7 5/8	780	354.0
21	533.4	7 5/8	1056	480.0
21 1/2	546.1	7 5/8	1185	537.5
22	558.8	7 5/8	1185	537.5
22 3/8	568.3	7 5/8	1190	539.8
23	584.2	7 5/8	1195	542.0
23 1/2	569.9	7 5/8	1287	585.0
24	609.6	7 5/8	1195	542.0
26	660.4	7 5/8	1425	646.4
28	711.2	8 5/8	1490	676.0
30	762.0	8 5/8	1490	676.0

Steel Tooth Product Line

Bit Size		API	Approximate Weight	
<i>inch</i>	<i>mm</i>	<i>Pin</i>	<i>lb</i>	<i>kg</i>
3 5/8	92.1	2 3/8	12	5.4
3 3/4	95.2	2 3/8	12	5.4
3 7/8	98.4	2 3/8	12	5.4
4 1/8	104.8	2 3/8	14	6.4
4 1/2	114.3	2 3/8	18	8.2
4 5/8	117.5	2 7/8	18	8.2
4 3/4	120.6	2 7/8	20	9.1
4 7/8	123.8	2 7/8	22	10.0
5	127.0	2 7/8	25	11.3
5 5/8	142.9	3 1/2	29	13.2
5 3/4	146.1	3 1/2	37	16.8
5 7/8	149.2	3 1/2	37	16.8
6	152.4	3 1/2	38	17.3
6 1/8	155.6	3 1/2	38	17.3
6 1/4	158.7	3 1/2	39	17.8
6 1/2	165.1	3 1/2	44	20.0
6 5/8	168.3	3 1/2	45	20.4
6 3/4	171.4	3 1/2	46	21.0
7 5/8	193.7	4 1/2	69	31.3
7 7/8	200.0	4 1/2	73	33.1
8 3/8	212.7	4 1/2	88	40.0
8 1/2	215.9	4 1/2	90	40.9
8 3/4	222.2	4 1/2	92	41.7
9 1/2	241.3	6 5/8	140	63.5
9 5/8	244.5	6 5/8	142	64.4
9 7/8	250.8	6 5/8	145	65.8
10 5/8	269.9	6 5/8	168	76.2
11	279.4	6 5/8	175	79.4
12 1/4	311.1	6 5/8	225	102.0
13 1/2	342.9	6 5/8	255	115.7
13 3/4	349.3	6 5/8	265	120.2
14 1/2	368.3	7 5/8	300	136.0
14 3/4	374.6	7 5/8	315	143.0
15 1/2	393.7	7 5/8	395	179.5
16	406.4	7 5/8	450	204.1
17	431.8	7 5/8	465	210.9
17 1/2	444.5	7 5/8	515	233.6
20	508.0	7 5/8	705	320.0
22	558.8	7 5/8	1125	510.3
23	584.2	7 5/8	1145	519.4
24	609.6	7 5/8	1145	519.4
26	660.4	7 5/8	1300	590.0
28	711.2	8 5/8	1380	626.0
30	762.0	8 5/8	1380	626.0

[illegible]

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Innovative Drilling Solutions

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