



EVERTECH

ROCK DRILLING TOOLS



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EVERTECH



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ROCK DRILLING TOOLS

EVERTECH, Rock Drilling Tools

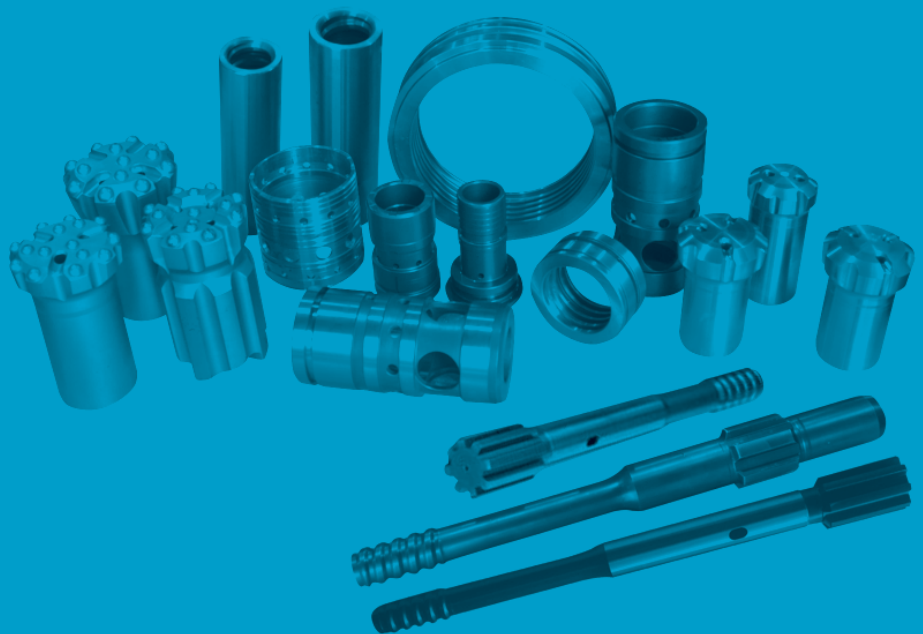


Hello

EVERTECH is the best company with Rock Tool and related Accessories manufacturing technologies We have met the needs of our clients in all over the world with the best quality based on our technologies since long time ago and have been well received by them with our price and supply.

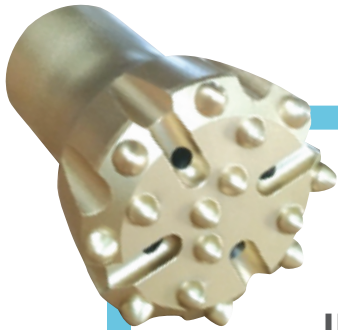
We have lines to manufacture Button Bits, Couplings, Shank Adapters, Extension Rods, M/F Rods and also manufacturing surface Rock Drilling related products. The goal of EVERTECH is to become a supplier to offer products to customers with the cheapest price per unit meter in Rock Drilling Accessory orders We will respond to your demands for any problems related to Rock Tool.

Thank you





NOMENCLATURE



INTRODUCTION FOR EX-ROD AND M/F ROD ROCK DRILLING BITS GUIDE

DRIFTING DRILLING EQUIPMENT

ROPE THREAD R25(1")-R28(1-1/8")SERIES

(Available upon customer's request)

ROPE THREAD R32(1-1/4")SERIES

BENCH DRILLING EQUIPMENT

ROPE THREAD R38(1-1/2")SERIES

T-THREAD T38(1-1/2")SERIES

T-THREAD T45(1-3/4")SERIES

T-THREAD T51(2")SERIES

T-THREAD T60/GT60(2-3/8")SERIES

REAMING TOOLS (Taper 6° and 12°)

SHANK ADAPTERS

All specifications is available upon customer's request

DOWN THE HOLE BITS

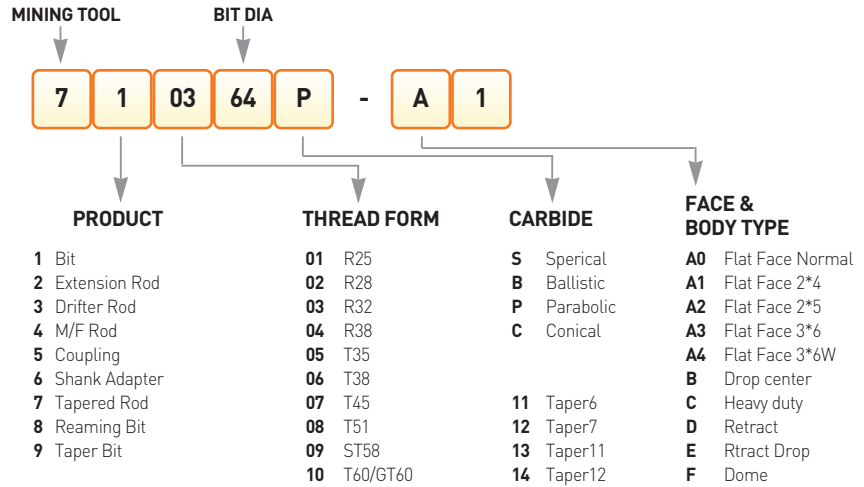
DEMOLITION TOOLS

PRECISION PARTS

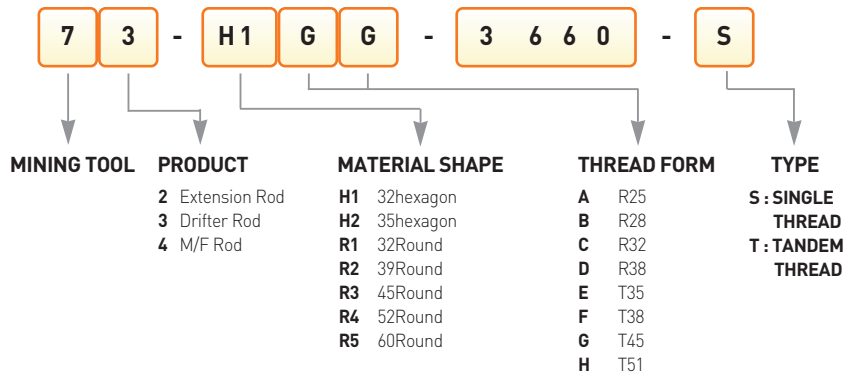
FACILITIES



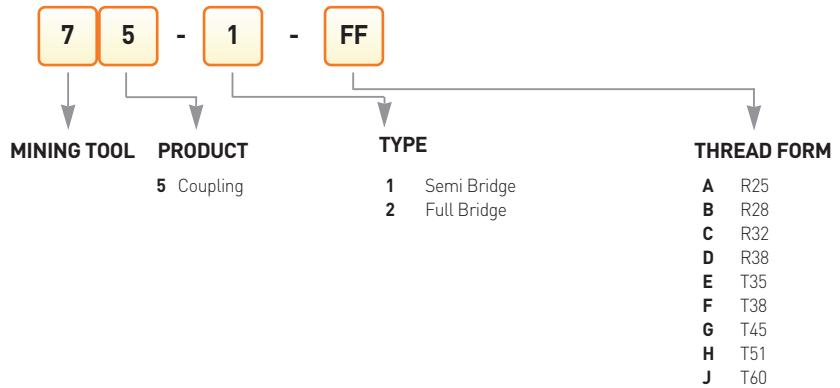
Button Bit



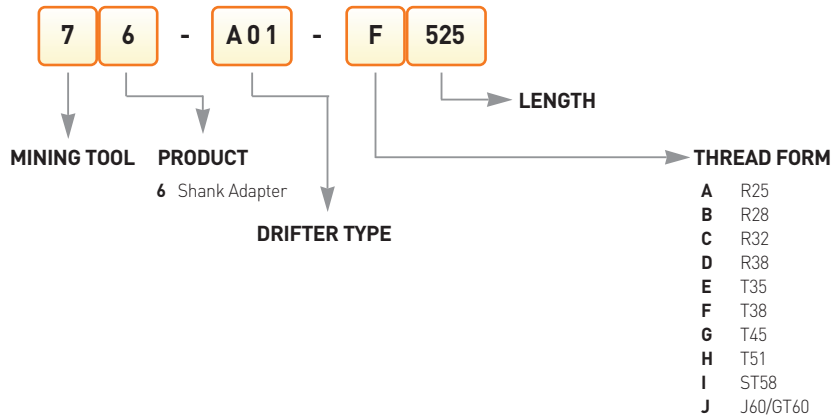
Drifting & Extension Rod



Coupling



Shank Adapter





EVERTECH

offers two distinct forms of heat treatment for its drill rods.

Carburization : This process adds surface hardness, as well as increasing wear and fatigue resistance. This rod offers a case hardness several times deeper than many competitors. This results in a more rigid rod with longer wearing threads.

Induction hardening : single end, tandem end and male/female drill rods. Used primarily on hydraulic drills and larger air drills, the induction hardened threads provide extremely long thread life, while the main body of the rod retains its resistance to fracture under bending loads. The unique case pattern created by our process again can be found to be several times deeper than some competitors. Additionally, the uniform hardness pattern end-wrapped heat treated zone make drill rod unique in the industry.

Single Thread Round Rods provide a high degree of rigidity and are recommended for use on hydraulic crawlers and larger air crawlers.

Tandem Thread Round Rods provide the advantages of the rigid single thread rod with the reconditionability feature of spiral rod. One recondition on each ends available.

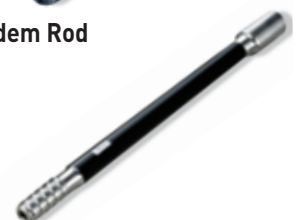
Male-Female(M/F)Rods are usually used on hydraulic crawlers incorporating an automatic rod changer. These rods do not require separate couplings, and can improve energy transmission through the drill rod to the bit. M/F rods are now manufactured with the same heat induction process as our standard single and tandem end rods. Which generates longer life of the rod. This induction process along with inertial weld allow greater flexibility the rigidity of a carburized rod.



Single Rod



Tandem Rod



Male-Female Rod

ROCK DRILLING BITS GUIDE

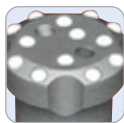


The following is a general guide of normal application for the **EVERTECH** style of bits.



Flat Face Button

For cleaning instead of 2 flushing hoses Hard rock, Abrasive rock, Homogeneous rock application.



Hard Rock Button

Toughest drilling Hard rock, Abrasive rock, Homogenous rock application.



Ballistic Button

Limestone and other rock formations. not used in hard rock formation. Medium hard rock, Abrasive rock, Homogeneous rock application.

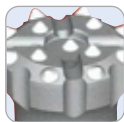


Drop center Spherical Button

Broken rock formations to obtain a straighter hole. Hard rock, Abrasive rock, Homogeneous rock, penetration rock application.

Drop center Ballistic Button

Medium hard rock, Abrasive rock, Homogenous rock, Penetration rock application.



Retract Spherical Button

Bit body acts as a guide, resisting the tendency to wander away from straight holes at greater depth or through seams in the rock formation. Hard, Medium hard, Abrasive, Fissured, penetration rock application.



Retract ballistic Button

Useful Medium hard, Abrasive, Homogeneous, Fissured, Penetration rock application.



Retract Back Drilling

These back buttons perform extremely well in breaking up fallen debris. Additionally, the back side carbides help to reduce the wear on the body, thereby increasing overall bit life.

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

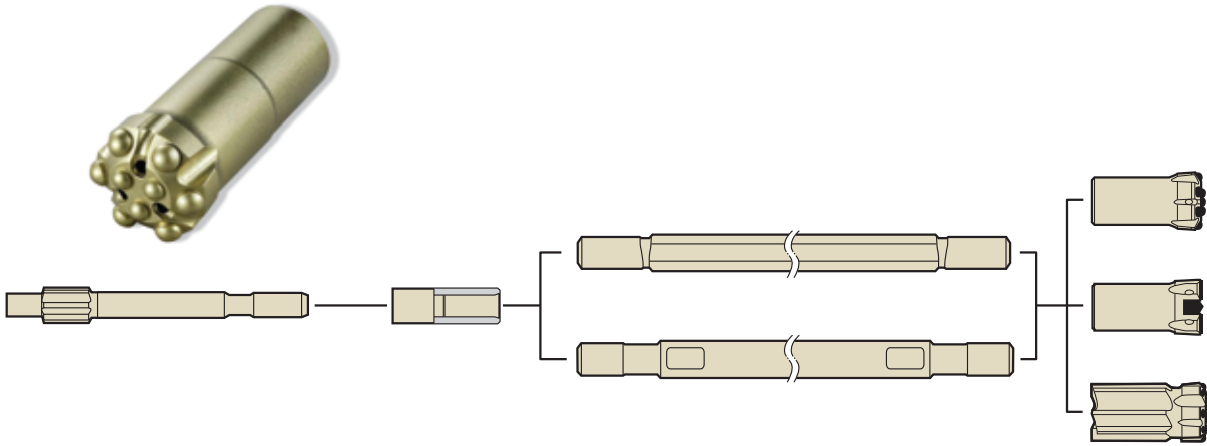
Soft rock and medium hard rock layers. High drilling speed can be obtained compare with cross bit.



Conical

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

DRIFTING DRILLING EQUIPMENT

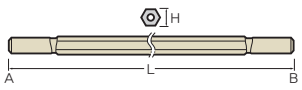
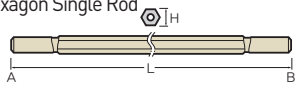
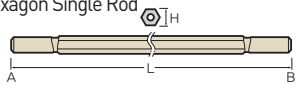


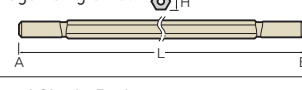
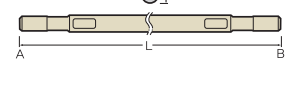
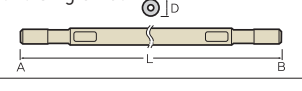
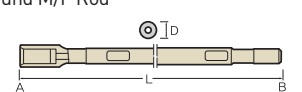
R32 (1 - 1/4") Series


Bit	Carbide Shape	Dimension		Buttons*Button Dia				Gauge	Flushing Hole		Approx Weight	Part No.
		Dia		Gauge		Front		Buttons	front	side		
		mm	inch	EA	mm	EA	mm	Angle			kg	
	SP	38	1 1/2"	5	8	2	8	30	3	1	0.5	710338SA2
	SP	41	1 5/8"	5	9	2	8	25	2		0.6	710341SA2
	SP	43	1 11/16"	5	9	2	8	30	2	2	0.6	710343SA2
<p>Flat Face</p>	SP	38	1 1/2"	5	8	2	8	30	3	1	0.5	710338SA3
	SP	41	1 5/8"	6	8	3	8	30	3	1	0.6	710341SA3
	BA	41	1 5/8"	6	8	3	8	30	3	1	0.6	710341BA3
	SP	43	1 11/16"	6	9	3	8	30	3	2	0.7	710343SA3
	BA	43	1 11/16"	6	9	3	8	30	3	2	0.7	710343BA3
	SP	45	1 3/4"	6	9	3	8	30	3	2	0.7	710345SA3-1
	SP	45	1 3/4"	6	10	3	8	30	3	2	0.7	710345SA3-2
	BA	45	1 3/4"	6	10	3	8	30	3	2	0.7	710345BA3
	SP	48	1 7/8"	6	10	3	9	30	3	1	0.95	710348SA3
	BA	48	1 7/8"	6	10	3	9	30	3	1	0.95	710348BA3
	SP	51	2"	6	10	3	9	30	3	1	1	710351SA3
	BA	51	2"	6	10	3	9	30	3	1	1	710351BA3
	SP	57	2 1/4"	6	11	3	9	30	3	1	1.2	710357SA3
	BA	57	2 1/4"	6	11	3	9	30	3	1	1.2	710357BA3
SP	64	2 1/2"	8	11	4	10	35	3		1.7	710364SA3	
BA	64	2 1/2"	8	11	4	10	35	3		1.7	710364BA3	
<p>Flat Face</p>	SP	45	1 3/4"	6	10	3	8	30	3	1	0.8	710345SA4
	BA	45	1 3/4"	6	10	3	8	30	3	1	0.8	710345BA4
	PA	45	1 3/4"	6	10	3	8	30	3	1	0.8	710345PA4
	SP	51	2"	6	10	3	9	30	3	1	1	710351SA4
	BA	51	2"	6	10	3	9	30	3	1	1	710351BA4
	PA	51	2"	6	10	3	9	30	3	1	1	710351PA4
	PA	57	2 1/4"	6	11	3	9	30	3		1.2	710357PA4
PA	64	2 1/2"	6	12	3	11	35	2		1.5	710364PA4	
<p>Retract</p>	BA	57	2 1/4"	6	10	3	10	35	3		1.6	710357BD1
	SP	64	2 1/2"	8	11	4	10	35	3		1.7	710364SD1

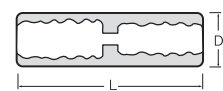


R32 (1 - 1/4") Series

Drifting Rod	Hexagon H		Length		Approx' Weight	Thread		Part No.
	mm	inch	mm	ft / inch	kg	A	B	
Hexagon Single Rod 	32	1 1/4"	3090	10' 2"	19.7	R32	R38	73H1CD3090
			3700	12' 2"	23.4	R32	R38	73H1CD3700
			4310	14'	27.2	R32	R38	73H1CD4310
Hexagon Single Rod 	32	1 1/4"	3090	10' 2"	19.5	R32	T38	73H1CF3090
			3700	12' 2"	23.2	R32	T38	73H1CF3700
			4310	14'	27.1	R32	T38	73H1CF4310
Hexagon Single Rod 	35	1 3/8"	4310	14' 2"	30.3	R32	R38	73H2CD4310
			4920	16' 2"	36.9	R32	R38	73H2CD4920
			4920		36.9	R32	T38	73H2CF4920

Extension Rod	Round D		Length		Approx' Weight	Thread		Part No.
	mm	inch	mm	ft / inch	kg	A	B	
Hexagon Single Rod 	32	1 1/4"	3050	10"	20.4	R32	T38	72H1CF3050S
			3660	12"	24	R32	T38	72H1CF3660S
Round Single Rod 	32	1 1/4"	1000	3' 3"	5.64	R32	R32	72R1CC1000S
			1220	4"	6.88	R32	R32	72R1CC1220S
			1820	6"	10.04	R32	R32	72R1CC1820S
			2440	8"	13.72	R32	R32	72R1CC2440S
			3050	10"	17.3	R32	R32	72R1CC3050S
			3660	12'	20.63	R32	R32	72R1CC3660S
Round Single Rod 	39	1 9/16"	3050	10"	24.7	R32	T38	72R2CF3050S
			3660	12"	29.4	R32	T38	72R2CF3660S
			4270	14"	37.3	R32	T38	72R2CF4270S
Round M/F Rod 	32	1 1/4"	1220	4"	16.07	R32	R32	74R1CC1220
			1525	5"	19.6	R32	R32	74R1CC1525
			1830	6'	22.6	R32	R32	74R1CC1830
			2435	8"	30.39	R32	R32	74R1CC2435
			3050	10"	37	R32	R32	74R1CC3050
			3660	12'	43	R32	R32	74R1CC3660
			4270	14"	50	R32	R32	74R1CC4270

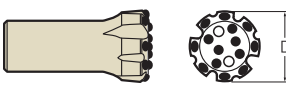
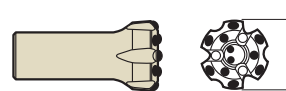
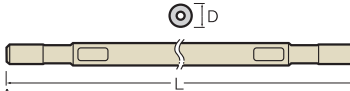

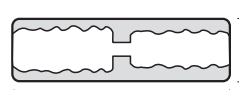
Coupling Sleeve	Round D		Length		Approx' Weight	Thread		Part No.
	mm	inch	mm	inch	kg	A	B	
	44	1 3/4"	150	6"	1	R32	R32	751CC

Adapter Coupling	Round D		Length		Approx' Weight	Thread		Part No.
	mm	inch	mm	inch	kg	A	B	
	54	2 1/8"	181	7.13"	1.7	R32	R38	752CD
	54	2 1/8"	190	7.4"	1.9	R32	T38	752CF

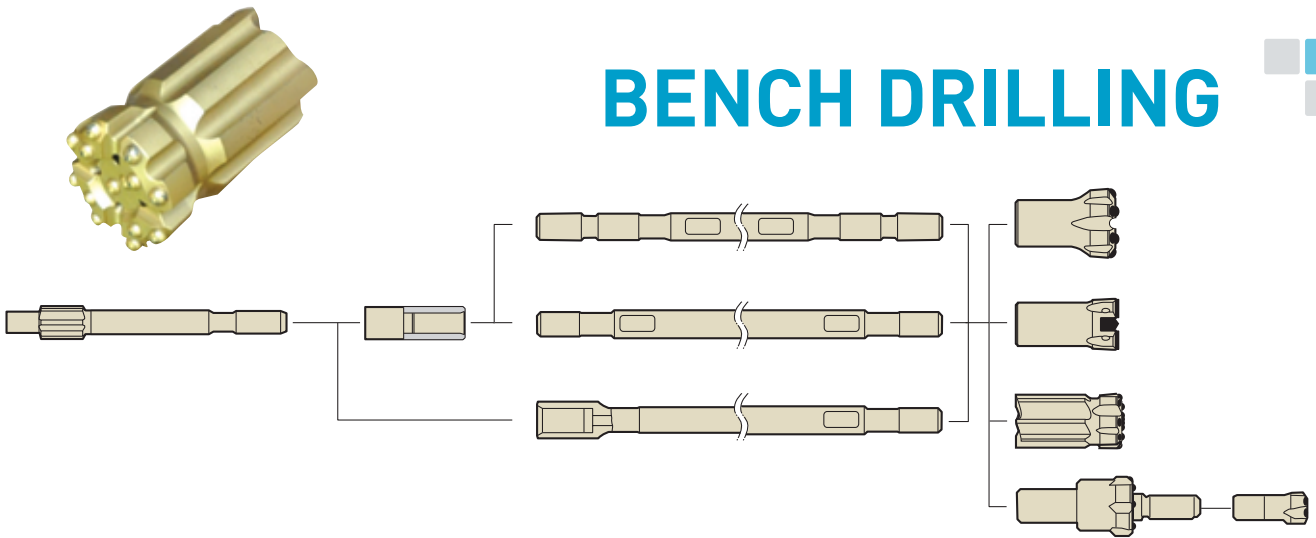
BENCH DRILLING



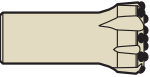



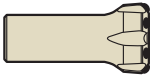


R38 (1 - 1/2") Series

Bit	Carbide Shape	Dimension		Buttons*Button Dia						Gauge Buttons	Flushing Hole		Approx Weight	Part No.
		Dia		Gauge		Front		Center			Angle	front		
		mm	inch	EA	mm	EA	mm	EA	mm	mm				
 <p>Flat Face</p>	SP	64	2 1/2"	8	11	4	10			35	2		1.5	710464SA0
	BA	64	2 1/2"	8	11	4	10			35	2		1.5	710464BA0
	SP	70	2 3/4"	8	10	6	10			35	2		1.7	710470SA0
	SP	76	3"	8	11	4	11			35	2		1.9	710476SA0
	BA	76	3"	8	11	4	11			35	2		1.9	710476BA0
	SP	89	3 1/2"	9	11	6	10			35	3		3.7	710489SA0
	BA	89	3 1/2"	9	11	6	10			35	3		3.7	710489BA0
	SP	102	4"	9	12	6	12			35	3		4.6	7104102SA0
BA	102	4"	9	12	6	12			35	3		4.6	7104102BA0	
 <p>Drop Center</p>	SP	64	2 1/2"	6	11	4	10			35	3		1.42	710464SB
	BA	64	2 1/2"	6	11	4	10			35	3		1.42	710464BB
	SP	76	3"	6	11	4	11			35	3		2.6	710476SB
	BA	76	3"	6	11	4	11			35	3		2.6	710476BB
	SP	89	3 1/2"	8	12	5	11			35	4		3.6	710489SB
	BA	89	3 1/2"	8	12	5	11			35	4		3.6	710489BB
Extension Rod	Round D		Length		Approx' Weight	Thread		Part No.						
	mm	inch	mm	ft		A	B							
 <p>Round Single Rod</p>	39	1 1/2"	1220	4	9.7	R38	R38	72R2DD1220S						
			2435	8'				72R2DD2435S						
			3050	10'				72R2DD3050S						
			3660	12'				72R2DD3660S						
Coupling Sleeve	Round D		Length		Approx' Weight	Thread		Part No.						
	mm	inch	mm	inch		A	B							
	54	2 1/8"	170	6 3/4"	1.7	R38	R38	751DD						
Adapter Coupling	Round D		Length		Approx' Weight	Thread		Part No.						
	mm	inch	mm	inch		A	B							
	54	2 1/8"	181	7' 9/64"	1.7	R32	R38	752CD						
	54	2 1/8"	190	7.4"	1.8	R38	T38	752DF						

BENCH DRILLING




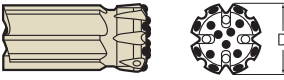
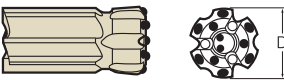

T38 (1 - 1/2") Series

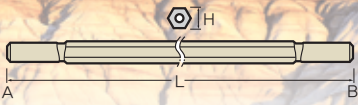
Bit	Carbide Shape	Dimension		Buttons*Button Dia						Gauge	Flushing Hole		Approx Weight	Part No.
		Dia		Gauge		Front		Center		Buttons	front	side	kg	
		mm	inch	EA	mm	EA	mm	EA	mm	Angle				
 Flat Face	SP	64	2 1/2"	8	11	4	10			35	2		1.5	710664SA0
	BA	64	2 1/2"	8	11	4	10			35	2		1.5	710664BA0
	SP	70	2 3/4"	8	10	6	10			35	2		1.7	710670SA0
	SP	76	3"	8	11	4	11			35	2		1.9	710676SA0
	BA	76	3"	8	11	4	11			35	2		1.9	710676BA0
 Flat Face	SP	89	3 1/2"	9	11	6	10			35	3		3.7	710689SA0
	BA	89	3 1/2"	9	11	6	10			35	3		3.7	710689BA0
	SP	102	4"	9	12	6	12			35	3		4.6	7106102SA0-1
	BA	102	4"	9	12	6	12			35	3		4.6	7106102BA0-1
 Flat Face	SP	102	4"	8	14	5	12			35	4		4.8	7106102SA0-2
	BA	102	4"	8	14	5	12			35	4		4.8	7106102BA0-2
 Flat Face	PA	64	2 1/2"	6	12	3	11			35	3		1.5	710664PA0
	PA	76	3"	7	12	3	11			35	3		1.8	710676PA0
 Drop Center	SP	64	2 1/2"	6	11	4	10			35	3		1.42	710664SB
	BA	64	2 1/2"	6	11	4	10			35	3		1.42	710664BB
	SP	76	3"	6	11	4	11			35	3		2.6	710676SB
	BA	76	3"	6	11	4	11			35	3		2.6	710676BB
 Drop Center	SP	89	3 1/2"	8	12	5	11			35	4		3.6	710689SB
	BA	89	3 1/2"	8	12	5	11			35	4		3.6	710689BB
	SP	102	4"	8	14	5	12			35	4		5.5	7106102SB
	BA	102	4"	8	14	5	12			35	4		5.5	7106102BB
 Heavy Duty	SP	64	2 1/2"	6	12	3	11			35	3		1.7	710664SC
	SP	76	3"	8	12	4	11			35	2		2.7	710676SC
	SP	89	3 1/2"	8	13	5	13			35	2		3.9	710689SC

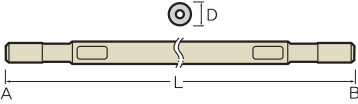
BENCH DRILLING

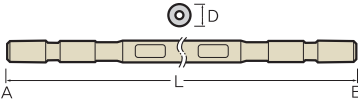
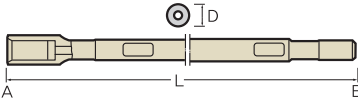



T38 (1 - 1/2") Series

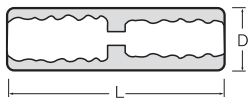
Bit	Carbide Shape	Dimension		Buttons*Button Dia						Gauge	Flushing Hole		Approx Weight	Part No.
		Dia		Gauge		Front		Center		Buttons	Hole		kg	
		mm	inch	EA	mm	EA	mm	EA	mm	Angle	front	side		
 <p>Retract Flat Face</p>	SP	64	2 1/2"	8	11	4	10			35	2		1.9	710664SD
	BA	64	2 1/2"	8	11	4	10			35	2		1.9	710664BD
	SP	76	3"	8	11	4	11			35	2		3	710676SD-1
	BA	76	3"	8	11	4	11			35	2		3	710676BD-1
	SP	76	3"	8	12	4	10			35	2		3	710676SD-2
	BA	76	3"	8	12	4	10			35	2		3	710676BD-2
 <p>Retract Flat Face</p>	SP	89	3 1/2"	8	11	6	11			35	4		5.5	710689SD
	BA	89	3 1/2"	8	11	6	11			35	4		5.5	710689BD
	SP	102	4"	8	12	6	11			35	4		7.2	7106102SD
	BA	102	4"	8	12	6	11			35	4		7.2	7106102BD
 <p>Retract Drop Center</p>	SP	64	2 1/2"	6	11	3	10	1	10	35	3		1.9	710664SE-1
	BA	64	2 1/2"	6	11	3	10	1	10	35	3		1.9	710664BE-1
	SP	76	3"	6	11	3	11	1	11	35	3		3	710676SE-1
	BA	76	3"	6	11	3	11	1	11	35	3		3	710676BE-1
 <p>Retract Drop Center</p>	SP	76	3"	8	11	4	11	1	10	35	4		3	710676SE-2
	BA	76	3"	8	11	4	11	1	10	35	4		3	710676BE-2
	SP	89	3 1/2"	8	11	4	11	2	9	35	4	1	5.3	710689SE-1
	BA	89	3 1/2"	8	11	4	11	2	9	35	4	1	5.3	710689BE-1
	SP	89	3 1/2"	8	12	4	11	2	9	35	4	1	5.3	710689SE-2
	BA	89	3 1/2"	8	12	4	11	2	9	35	4	1	5.3	710689BE-2
	BA	95	3 3/4"	8	11	4	11	2	10	35	4	1	6	710695SE-1
	SP	95	3 3/4"	8	12	4	11	2	10	35	4	1	6	710695SE-2
	BA	95	3 3/4"	8	12	4	11	2	10	35	4	1	6	710695BE
	BA	102	4"	8	12	4	11	2	11	35	4	1	7.1	7106102BE
	BA	105		8	12	4	11	2	11	35	4	1	7.5	7106105BE
	BA	117	4"	8	14	4	13	3	13	35	4		8.7	7106117BE
BA	127	5"	8	14	4	14	3	13	35	4		10.5	7106127BE	

Extension Rod	Hexagon H		Length		Approx' Weight	Thread		Part No.
	mm	inch	mm	ft	kg	A	B	
Hexagon Rod 	32	1 1/4"	3050	10'	20.4	T38	T38	72H1FF3050
			3660	12'	24			72H1FF3660
			4270	14'	26			72H1FF4270

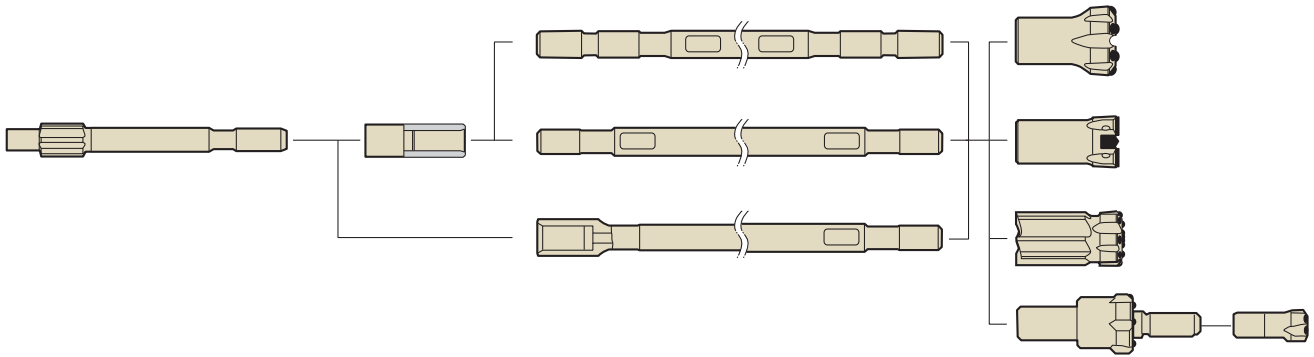
Extension Rod	Round D		Length		Approx' Weight	Thread		Part No.
	mm	inch	mm	ft/inch	kg	A	B	
Round Single Rod 	39	1 9/16"	1020	3.3"	8.2	T38	T38	72R2FF1020S
			1220	4'	9.9			72R2FF1220S
			1525	5'	12.3			72R2FF1525S
			1830	6'	14.7			72R2FF1830S
			2020	6' 6"	17.7			72R2FF2020S
			3050	10'	24.7			72R2FF3050S
			3660	12'	29.4			72R2FF3660S
			4000	12'	32.1			72R2FF4000S
4270	14'	34.7	72R2FF4270S					

Extension Rod	Round D		Length		Approx' Weight	Thread		Part No.
	mm	inch	mm	ft	kg	A	B	
Round Tandem Rod 	39	1 9/16"	3050	10'	24.7	T38	T38	72R2FF3050T
			3660	12'	29.4			72R2FF3660T
			4000	13'	32.1			72R2FF4000T
			4270	14'	34.7			72R2FF4270T
Round M/F Rod 	39	1 9/16"	1220	4'	9.9	T38	T38	74R2FF1220
			1525	5'	12.3			74R2FF1525
			1830	6'	14.7			74R2FF1830
			2440	8'	21.3			74R2FF2440
			3050	10'	24.7			74R2FF3050
3660	12'	29.4	74R2FF3660					

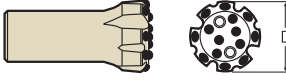
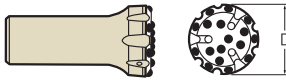
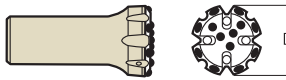
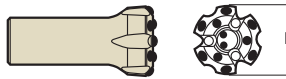
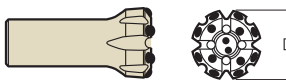

Coupling Sleeve	Round D		Length		Approx' Weight	Thread		Part No.
	mm	inch	mm	inch	kg	A	B	
	54	2 1/8"	190	7 1/2"	1.8	T38	T38	751FF

Adapter Coupling	Round D		Length		Approx' Weight	Thread		Part No.
	mm	inch	mm	inch	kg	A	B	
	54	2 1/8"	190	7 1/2"	1.7	T38	R32	752FC
	54	2 1/8"	190	7 1/2"	1.7	T38	R38	752FD
	64.5	2 1/2"	206	8 15/32"	3.1	T38	T45	752FG

BENCH DRILLING

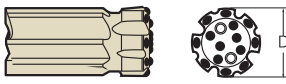
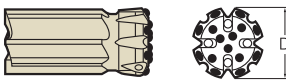



T45 (1 - 3/4") Series

Bit	Carbide Shape	Dimension		Buttons*Button Dia						Gauge	Flushing Hole		Approx Weight	Part No.
		Dia		Gauge		Front		Center		Buttons	front	side	kg	
		mm	inch	EA	mm	EA	mm	EA	mm	Angle				
 Flat Face	SP	76	3"	8	11	4	11			35	2		2.3	710776SA0
	BA	76	3"	8	11	4	11			35	2		2.3	710776BA0
 Flat Face	SP	89	3 1/2"	9	11	6	10			35	3		3.7	710789SA0
	BA	89	3 1/2"	9	11	6	10			35	3		3.7	710789BA0
	SP	102	4"	9	12	6	12			35	3		4.8	7107102SA0-1
	BA	102	4"	9	12	6	12			35	3		4.8	7107102BA0-1
 Flat Face	SP	102	4"	8	14	5	12			35	4		4.8	710710SA0-2
	BA	102	4"	8	14	5	12			35	4		4.8	710710BA0-2
	SP	115	4 1/2"	8	14	7	13			35	4		5.4	7107115SA0
	BA	115	4 1/2"	8	14	7	13			35	4		5.4	7107115BA0
 Drop Center	PA	76	3"	7	12	4	11	1	11	35	3		2.4	710776PB
	SP	76	3"	6	11	3	11	1	11	35	3		2.4	710776SB-1
	BA	76	3"	6	11	3	11	1	11	35	3		2.4	710776BB-1
	SP	76	3"	6	12	3	11	1	11	35	3		2.4	710776SB-2
	BA	76	3"	6	12	3	11	1	11	35	3		2.4	710776BB-2
 Drop Center	SP	89	3 1/2"	8	12	4	11	1	11	35	4		3.4	710789SB
	BA	89	3 1/2"	8	12	4	11	1	11	35	4		3.4	710789BB
	SP	102	4"	8	14	4	12	1	12	35	4		4.8	7107102SB
	BA	102	4"	8	14	4	12	1	12	35	4		4.8	7107102BB
	SP	115	4 1/2"	8	14	4	13	3	13	35	4		6.2	7107115SB
	BA	115	4 1/2"	8	14	4	13	3	13	35	4		6.2	7107115BB
	SP	127	5"	8	14	4	14	3	14	35	4		6.8	7107127SB
	BA	127	5"	8	14	4	14	3	14	35	4		6.8	7107127BB
 Heavy Duty	SP	76	3"	8	12	4	12			35	2		2.3	710776SC
	SP	89	3 1/2"	8	13	5	13			35	2		3.4	710789SC
	SP	102	4"	8	14	6	14			35	2		4.5	7107102SC

BENCH DRILLING

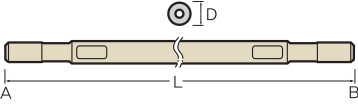


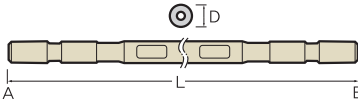
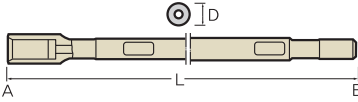
Bit	Carbide Shape	Dimension		Buttons*Button Dia						Gauge	Flushing Hole		Approx Weight	Part No.
		Dia		Gauge		Front		Center		Buttons	front	side	kg	
		mm	inch	EA	mm	EA	mm	EA	mm	Angle				
 Retract Flat Face	SP	76	3"	8	11	4	11			35	2		2.8	710776SD
	BA	76	3"	8	11	4	11			35	2		2.8	710776BD
 Retract Flat Face	SP	89	3 1/2"	8	11	6	11			35	4	1	5.4	710789SD-1
	BA	89	3 1/2"	8	11	6	11			35	4	1	5.4	710789BD-1
	SP	89	3 1/2"	8	12	6	11			35	4	1	5.4	710789SD-2
	BA	89	3 1/2"	8	12	6	11			35	4	1	5.4	710789BD-2
	SP	102	4"	8	12	6	11			35	4	1	7	7107102SD-1
	BA	102	4"	8	12	6	11			35	4	1	7	7107102BD-1
	SP	102	4"	8	13	6	12			35	4	1	7	7107102SD-2
	BA	102	4"	8	13	6	12			35	4	1	7	7107102BD-2
	SP	115	4 1/2"	8	14	7	13			35	4		8.7	7107115SD
	BA	115	4 1/2"	8	14	7	13			35	4		8.7	7107115BD
 Retract Drop Center	SP	76	3"	8	11	4	11	1	10	35	4		2.9	710776SE
	BA	76	3"	8	11	4	11	1	10	35	4		2.9	710776BE
	SP	89	3 1/2"	8	11	4	11	2	9	35	4	1	5.3	710789SE-1
	BA	89	3 1/2"	8	11	4	11	2	9	35	4	1	5.3	710789BE-1
	SP	89	3 1/2"	8	12	4	11	2	11	35	4	1	5.3	710789SE-2
	BA	89	3 1/2"	8	12	4	11	2	11	35	4	1	5.3	710789BE-2
	SP	102	4"	8	12	4	11	2	11	35	4	1	7	7107102SE-1
	BA	102	4"	8	12	4	11	2	11	35	4	1	7	7107102BE-1
	SP	102	4"	8	13	4	12	2	12	35	4	1	7	7107102SE-2
	BA	102	4"	8	13	4	12	2	12	35	4	1	7	7107102BE-2
	SP	115	4 1/2"	8	14	4	13	3	13	35	4		8.7	7107115SE
	BA	115	4 1/2"	8	14	4	13	3	13	35	4		8.7	7107115BE

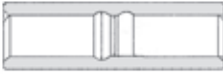


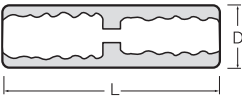
BENCH DRILLING



Extension Rod	Round D		Length		Approx' Weight	Thread		Part No.
	mm	inch	mm	ft	kg	A	B	
Round Single Rod 	45	1 3/4"	3050	10'	34	T45	T45	72R3GG3050S
			3660	12'	41			72R3GG3660S
			4270	14'	48			72R3GG4270S

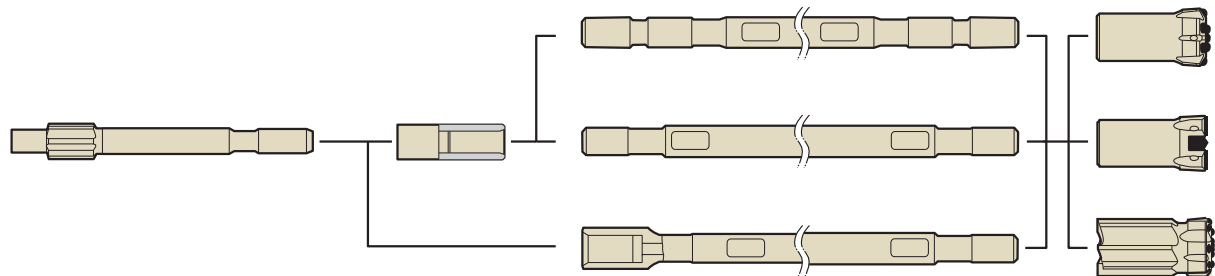
Extension Rod	Round D		Length		Approx' Weight	Thread		Part No.
	mm	inch	mm	ft	kg	A	B	
Round Tandem Rod 	45	1 3/4"	3050	10'	34	T45	T45	72R3GG3050T
3660			12'	41	72R3GG3660T			
Round M/F Rod 	45	1 3/4"	1830	6'	22.6	T45	T45	74R3GG1830
			3050	10'	37			74R3GG3050
			3660	12'	43			74R3GG3660
			4270	14'	50			74R3GG4270

Coupling Sleeve	Round D		Length		Approx' Weight	Thread		Part No.
	mm	inch	mm	inch	kg	A	B	
	64.8	2 1/2"	212	8 1/4"	2.7	T45	T45	751GG

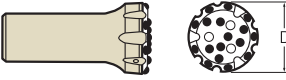
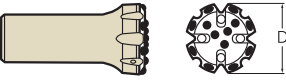


Adapter Coupling	Round D		Length		Approx' Weight	Thread		Part No.
	mm	inch	mm	inch	kg	A	B	
	64.5	2 1/2"	206	8 1/4"	3.1	T45	R38	752GF
	76.2	2 7/8"	223	9 1/2"	4	T45	T51	752GH



BENCH DRILLING



T51 (2") Series

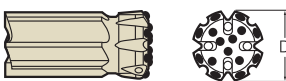
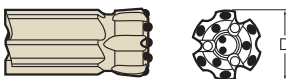
Bit	Carbide Shape	Dimension		Buttons*Button Dia						Gauge	Flushing Hole		Approx Weight	Part No.
		Dia		Gauge		Front		Center		Buttons	front	side	kg	
		mm	inch	EA	mm	EA	mm	EA	mm	Angle				
 Flat Face	SP	89	3 1/2"	9	11	6	10			35	3		3.4	710889SA0
	BA	89	3 1/2"	9	11	6	10			35	3		3.4	710889BA0
	SP	102	4"	9	12	7	12			35	3		4.4	7108102SA0-1
	BA	102	4"	9	12	7	12			35	3		4.4	7108102BA0-1
 Flat Face	SP	102	4"	8	14	5	12			35	4		4.5	7108102SA0-2
	BA	102	4"	8	14	5	12			35	4		4.5	7108102BA0-2
	SP	115	4 1/2"	8	14	7	13			35	4		5.3	7108115SA0
	BA	115	4 1/2"	8	14	7	13			35	4		5.3	7108115BA0
	SP	127	5"	8	14	7	14			35	4		6.1	7108127SA0
	BA	127	5"	8	14	7	14			35	4		6.1	7108127BA0
 Drop Center	SP	89	3 1/2"	8	12	4	11	1	11	35	4		3.3	710889SB-1
	BA	89	3 1/2"	8	12	4	11	1	11	35	4		3.3	710889BB-1
	SP	89	3 1/2"	8	13	4	11	1	11	35	4		3.3	710889SB-2
	BA	89	3 1/2"	8	13	4	11	1	11	35	4		3.3	710889BB-2
	SP	102	4"	8	14	4	12	1	12	35	4		4.7	7108102SB-1
	BA	102	4"	8	14	4	12	1	12	35	4		4.7	7108102BB-1
	SP	102	4"	8	14	4	14	1	14	35	4		4.8	7108102SB-2
	BA	102	4"	8	14	4	14	1	14	35	4		4.8	7108102BB-2
	SP	115	4 1/2"	8	14	4	13	3	13	35	4		5.7	7108115SB
	BA	115	4 1/2"	8	14	4	13	3	13	35	4		5.7	7108115BB
	SP	127	5"	8	14	4	13	3	14	35	4		6.7	7108127SB
	BA	127	5"	8	14	4	13	3	14	35	4		6.7	7108127BB
 Heavy Duty	SP	89	3 1/2"	8	13	5	13			35	2		3.2	710889SC
	SP	102	4"	8	14	6	14			35	2		4.7	7108102SC
	SP	115	4 1/2"	8	14	6	14			35	2		6	7108115SC
	SP	127	5"	8	14	7	14			35	2		6.3	7108127SC



BENCH DRILLING

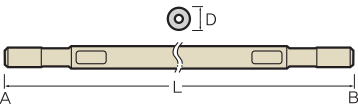


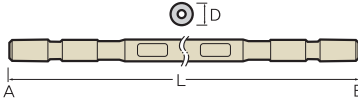
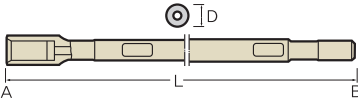
T51 (2") Series


Bit	Carbide Shape	Dimension		Buttons*Button Dia						Gauge	Flushing Hole		Approx Weight	Part No.
		Dia		Gauge		Front		Center		Buttons	front	side		
		mm	inch	EA	mm	EA	mm	EA	mm	Angle			kg	
 <p>Retract Flat Face</p>	SP	89	3 1/2"	8	11	6	11			35	4	1	5.2	710889SD-1
	BA	89	3 1/2"	8	11	6	11			35	4	1	5.2	710889BD-1
	SP	89	3 1/2"	8	12	6	11			35	4	1	5.2	710889SD-2
	BA	89	3 1/2"	8	12	6	11			35	4	1	5.2	710889BD-2
	SP	102	4"	8	12	6	11			35	4	1	6.9	7108102SD-1
	BA	102	4"	8	12	6	11			35	4	1	6.9	7108102BD-1
	SP	102	4"	8	13	6	12			35	4	1	6.9	7108102SD-2
	BA	102	4"	8	13	6	12			35	4	1	6.9	7108102BD-2
	SP	115	4 1/2"	8	14	7	12			35	4		8.3	7108115SD
	BA	115	4 1/2"	8	14	7	12			35	4		8.3	7108115BD
	SP	127	5"	8	14	7	14			35	4		10.1	7108127SD
	BA	127	5"	8	14	7	14			35	4		10.1	7108127BD
 <p>Retract Drop Center</p>	SP	89	3"	8	11	4	11	2	9	35	4	1	5.2	710889SE-1
	BA	89	3"	8	11	4	11	2	9	35	4	1	5.2	710889BE-1
	SP	89	3 1/2"	8	12	4	11	2	11	35	4	1	5.2	710889SE-2
	BA	89	3 1/2"	8	12	4	11	2	11	35	4	1	5.2	710889BE-2
	SP	102	4"	8	12	4	11	2	11	35	4	1	6.9	7108102SE-1
	BA	102	4"	8	12	4	11	2	11	35	4	1	6.9	7108102BE-1
	SP	102	4"	8	13	4	11	2	11	35	4	1	6.9	7108102SE-2
	BA	102	4"	8	13	4	11	2	11	35	4	1	6.9	7108102BE-2
	SP	115	4 1/2"	8	14	4	13	3	13	35	4		8.2	7108115SE
	BA	115	4 1/2"	8	14	4	13	3	13	35	4		8.2	7108115BE
	SP	127	5"	8	14	4	14	3	14	35	4		10	7108127SE
	BA	127	5"	8	14	4	14	3	14	35	4		10	7108127BE

BENCH DRILLING

T51 (2") Series

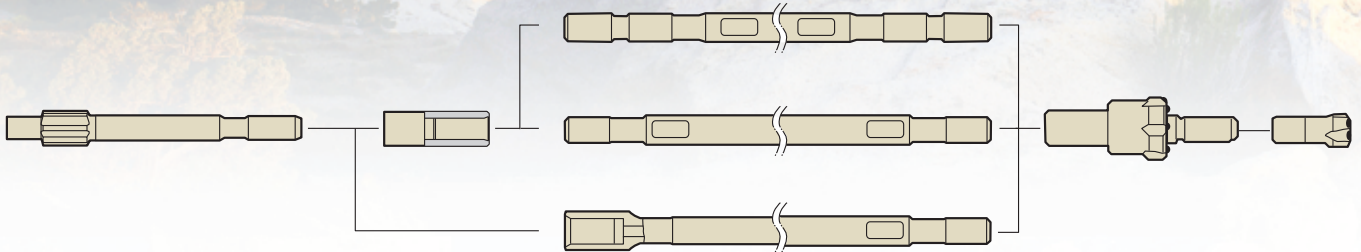
Extension Rod	Round D		Length		Approx' Weight	Thread		Part No.
	mm	inch	mm	ft	kg	A	B	
Round Single Rod 	51	2"	3660	12'	50	T51	T51	72R4HH3660S 72R4HH4270S
			4270	14'	61			

Extension Rod	Round D		Length		Approx' Weight	Thread		Part No.
	mm	inch	mm	ft	kg	A	B	
Round Tandem Rod 	51	2"	3660	12'	49.5	T51	T51	72R4HH3660T 72R4HH4270T
			4270	14'	59			
Round M/F Rod 	51	2"	3660	12'	53	T51	T51	74R4HH3660 74R4HH4270
			4270	14'	61.6			

Coupling Sleeve	Round D		Length		Approx' Weight	Thread		Part No.
	mm	inch	mm	inch	kg	A	B	
	76	3"	228	9"	4.1	T51	T51	751HH



REAMING BITS



Taper 6° Series

Bit	Carbide Shape	Dimension		Buttons*Button Dia						Gauge	Flushing Hole		Approx Weight	Part No.
		Dia		Gauge		Front		Center		Buttons	front	side	kg	
		mm	inch	EA	mm	EA	mm	EA	mm	Angle				
	SP	76	3"	6	11	3	11			35			1.25	781176SA0
	SP	89	3 1/2"	8	12	4	11			35			2.8	781189SA0
	SP	102	4"	8	13	4	12			35			3.5	7811102SA0
	SP	115	4 1/2"	8	13	4	13			35			4.3	7811115SA0
	SP	127	5"	12	12	8	12			35			5.1	7811127SA0

Taper 12° Series

Bit	Carbide Shape	Dimension		Buttons*Button Dia						Gauge	Flushing Hole		Approx Weight	Part No.
		Dia		Gauge		Front		Center		Buttons	front	side	kg	
		mm	inch	EA	mm	EA	mm	EA	mm	Angle				
	SP	89	3 1/2"	8	12	4	11			35			3.35	781489SA0
	SP	102	4"	8	13	4	12			35			3.5	7814102SA0
	SP	115	4 1/2"	8	13	4	13			35			4.3	7814115SA0
	SP	127	5"	12	12	8	12			35			5.1	7814127SA0

SHANK ADAPTER



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Manufacture	Drifter	S.N	Drifter	Drifter	S.N	
EVERDIGM	ED100 / DNT3	NE01	IR	YH65RP / 70RP / 80RP	NI05	
Jun Jin	JET 7	NJ01		YH95 / YH100	NI06	
	JET 8	NJ02		YH95RP / YH100RP	NI07	
	JET 9	NJ03		YH110V / YH135V	NI08	
SOOSAN	SP 3	NS01		YD90M / 100M	NI09	
	SP 3G	NS02		URD475 / 550V / 120 / VL140 / EVL130	NI10	
	SP 6	NS03				
ATLAS	BBC51 / 52 / 54 / 120	NA01		JOY	VCR361	NO01
	BBE56U2 / BBE57	NA02			VCR260 / 360	NO02
	COP125 / 130 / 131	NA03	KOMATSU	KDH100(4Spline)	NK01	
	COP1032HD	NA04		KDH100(8Spline)	NK02	
	COP1032HD	NA05	KLEMM	4026 / 4053	NK03	
	COP1036HB / 1038HB / 1238LE / 1238ME	NA06	KRUPP	HB103	NK04	
	COP1038H / 1238ME	NA06		HB30A / 40A	NK05	
	COP1038HL / 1238ME	NA07		HB30A / 40A	NK06	
	COP1338MEX	NA08	MONTABERT	HC40	NM01	
	COP1440 / 1838	NA09		HC80	NM02	
	COP1550 / 1838ME	NA10		HC120	NM03	
	COP1550, 1838HO / ME / HE	NA11		HC80RP	NM04	
	COP1840EX, 1850	NA12		HC120R	NM05	
	Atlas Copco 4050	NA13		HC120 / HC150	NM06	
COP4050EX	NA14	HC80R / HC120R / HC150R		NM07		
		HC80R / HC120R / HC150R		NM08		
BOART	HD125 / 150 / HE125 / 150	NB01	HC200R	NM09		
	HD155	NB02				
BÖHLER	HS432S	NB03	MITSUI	RPH400 / 600, DCH400 / 600	NU01	
	HS448	NB04		RPH200 / HYDRASTAR200 / 300	NU02	
	HS464	NB05	MITSUBISHI	MCD6G	NU03	
FURUKAWA	HD75	NF01	SIG	HBM100	NU04	
	HD90	NF02		HBM150	NU05	
	HD180	NF03	SECOMA	HYDRASTAR200	NU06	
	HD200	NF04	TAMROCK	HL300	NT01	
	HD300	NF05		HL500 / 500S	NT02	
	HD500	NF06		HL500-38 / 510-38	NT03	
	HD609	NF07		HL500-45 / 510-45	NT04	
	HD609RP	NF08		HL500S-38 / 510B / 510LH	NT05	
	HD612	NF09		HL550SUPER	NT06	
	HD612RP	NF10		HL550S / 560S	NT07	
	HD612QED	NF11		HL550SUPER M92 / 560SUPER / 510T	NT08	
	HD615	NF12		HL600-45	NT09	
	HD615QED	NF13		HL600-52	NT10	
	HD709	NF14		HL600-S45	NT11	
	HD709RP	NF15		HL645 / 645S	NT12	
	HD712	NF16		HL700 / 800	NT13	
	HD712RP	NF17		HL700-45	NT14	
	HD715	NF18		HL700-52	NT15	
	HD715RP	NF19		HL850	NT16	
	PD200 / M120	NF20	HL850S	NT17		
GARDNER DENVER	PR66	NG01	HL1000 / 1000S	NT18		
	HPR1H	NG02	HL1000-52	NT19		
	HPR2H	NG03	HL1500	NT20		
	PR133	NG04	HL1500-60	NT21		
IR	YH50 / 55	NI01	HLX5	NT22		
	YH50RP / 55RP	NI02	TOYO	TH500 / 501 / 501S / 550	NY01	
	LM500 / YH65 / 70S / 80	NI03		TH800 / 900	NY02	
	YH80A	NI04		TH900(L)	NY03	



SHANK ADAPTER

S.N	Rough Drawing	Drifter	Thread	Flushing Tube Dia	Length	Approx Weight	Part No.
EVERDIGM / DNS							
NE01		ED100	T38	15	620	8.0	76E01F620
		DNT3	T45	15	620	8.0	76E01G620
		HD500					
JUN JIN							
NJ01		JET-7/HD609	T38	SF	690	6.4	76J01F690
			T45	SF	690	7.1	76J01G690
NJ02		JET-8/HD709	T38	SF	620	6.5	76J02F620
			T45	SF	620	6.7	76J02G620
NJ03		JET-9/HD712	T45	SF	592	8.4	76J03G592
			T51	SF	592	9.1	76J03H592
S00 SAN							
NS01		SP3/HD500	T38	16	635	8.0	76S01F635
NS02		SP3G/HD609	T38	SF	690	6.4	76S02F690
NS03		SP6/HD612	T38	SF	710	9.0	76S03F710
ATLAS							
NA01		ATLAS BBC51/52/54/120	R32	12	380	2.7	76A01C380
		MONTABERT H40/50/60/70	R38	12	390	3.1	76A01D390
			T38	12	390	3.1	76A01F390
NA02		ATLAS BBE56U2/BBE57	T38	12.5	530	5.5	76A02F530
		IR(YAMAMOTO)YH60/60A	R38	12.5	447	4.8	76A02D447
		MONTABERT H100	T45	12.5	550	5.8	76A02G550
		I.R.LM400					
NA03		ATLAS COP125/130/131	R32	12.5	380	2.7	76A03C380
			T38	12.5	380	3.0	76A03F380
NA04		ATLAS COP1032	R32	SF	550	5.0	76A04C550
			T38	SF	550	5.4	76A04F550

S.N	Rough Drawing	Drifter	Thread	Flushing Tube Dia	Length	Approx Weight	Part No.
NA05		ATLAS COP1032HL	R32	SF	510	5.0	76A05C510
			R38	SF	510	4.9	76A05D510
			T38	SF	510	4.9	76A05F510
NA06		ATLAS COP1036/1038/1238	R32	SF	500	4.1	76A06C500
			R38	SF	500	4.3	76A06D500
			T38	SF	500	4.3	76A06F500
			T38	SF	590	5.0	76A06F590
			T45	SF	500	5.1	76A06G500
		T45	SF	590	6.3	76A06G590	
		ATLAS COP1036/1038/1238	R38	SF	485	4.3	76A06D485
			T38	SF	485	4.3	76A06F485
NA07		ATLAS COP1036/1038/1238	R32	SF	575	4.6	76A07C575
			T38	SF	575	4.9	76A07F575
			T45	SF	575	5.8	76A07G575
NA08		ATLAS COP1338MEX	T45	-	780	10.5	76A08G780
NA09		ATLAS COP1440/1838	T38	SF	435	4.4	76A09F435
			R38	SF	435	4.4	76A09D435
			R32	SF	525	5.3	76A09C525
NA10		ATLAS COP1550/1838ME	T38	SF	525	5.8	76A10F525
			T45	SF	525	5.8	76A10G525
			T51	SF	525	6.2	76A10H525
NA11		ATLAS COP 1550,1838 HO/ME/HE	R32	-	525	5.7	76A11C525
			R38	-	525	6.1	76A11D525
			T38	-	525	6.1	76A11F525
			T45	-	525	6.2	76A11G525
			T51	-	525	6.8	76A11H525
NA12		ATLAS COP1840EX, 1850	T45	-	565	6.9	76A12G565
			T51	-	565	7.1	76A12H565
NA13		ATLAS4050	T51	-	605	10.5	76A13H605
NA14		ATLAS COP4050EX	T51	-	790	14.8	76A14H790



SHANK ADAPTER

S.N	Rough Drawing	Drifter	Thread	Flushing Tube Dia	Length	Approx Weight	Part No.
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BOAT LONG YEAR / BÖHLER

NB01		BÖART HD125/150/ HE125/150	R32	-	428	4.0	76B01C428
NB02		BÖART HD155	R32	-	580	8.6	76B02C580
NB03		BÖHLER HS432S	R38 T38 R32	- - -	440 440 475	3.2 3.2 3.3	76B03D440 76B03F440 76B03C475
NB04		BÖHLER HS448	R32 R38 T38	- - -	500 500 500	4.1 4.3 4.3	76B04C500 76B04D500 76B04F500
NB05		BÖHLER HS464	T38 T45	- -	625 625	11.6 11.3	76B05F625 76B05G625

FURUKAWA

NF01		FURUKAWA HD75	R32 R38	- -	425 425	3.3 3.5	76F01C425 76F01D425
NF02		FURUKAWA HD90	R32 R38	- -	515 515	4.0 4.3	76F02C515 76F02D515
NF03		FURUKAWA HD180	T38	12.5	565	5.0	76F03F565
NF04		FURUKAWA HD200	R38 T38	13 13	550 550	5.8 5.8	76F04D550 76F04F550
NF05		FURUKAWA HD300	T38 T45	16 16	655 655	6.1 6.5	76F05F655 76F05G655
NF06		FURUKAWA HD500 MITSUI DCH400/600 SOOSAN SP3	R38 T38 T45 T51 T45	13 13 13 15 13	635 635 635 635 640	8.0 8.0 8.3 8.8 8.3	76F06D635 76F06F635 76F06G635 76F06H635 76F06G640
NF07		FURUKAWA HD609 JUNJIN JET9 SOOSAN SP3G	T38 T45 T38 T45	SF SF SF SF	620 620 690 690	5.7 5.7 6.4 7.1	76F07F620 76F07G620 76F07F690 76F07G690

S.N	Rough Drawing	Drifter	Thread	Flushing Tube Dia	Length	Approx Weight	Part No.
NF08		FURUKAWA HD609RP	T38	SF	795	6.5	76F08F795
			T45	SF	795	6.5	76F08G795
			T45	SF	865	7.1	76F08G865
NF09		FURUKAWA HD612 SOOSAN SP6	T38	SF	710	9.0	76F09F710
			T45	SF	700	9.1	76F09G700
			T45	SF	720	9.2	76F09G720
NF10		FURUKAWA HD612RP	T38	SF	845	10.6	76F10F845
			T45	SF	845	11.0	76F10G845
			T51	SF	845	11.4	76F10H845
			T45	SF	925	12.0	76F10G925
NF11		FURUKAWA HD612QED	T45	-	845	10.8	76F11G845
			T51	-	845	10.6	76F11H845
NF12		FURUKAWA HD615	T45	SF	700	11.7	76F12G700
			T51	SF	700	11.7	76F12H700
			T51	SF	876	14.0	76F12H876
NF13		FURUKAWA HD615QED	T51	-	880	15.4	76F13H880
NF14		FURUKAWA HD709 JUNJIN J-8	T38	SF	620	6.5	76F14F620
			T45	SF	620	6.8	76F14G620
NF15		FURUKAWA HD709RP	T38	SF	814	9.1	76F15F814
NF16		FURUKAWA HD712 JUNJIN JET9	T45	SF	592	8.4	76F16G592
			T51	SF	592	9.1	76F16H592
			T45	SF	790	9.9	76F16G790
			T51	SF	790	10.8	76F17H790
NF17		FURUKAWA HD712RP	T45	SF	787	11.9	76F17G787
			T45	SF	885	12.7	76F17G885
			T51	SF	885	13.4	76F17H885
NF18		FURUKAWA HD715	T51	SF	790	12.7	76F18H790
NF19		FURUKAWA HD715RP	T51	SF	885	16.2	76F19H885
NF20		FURUKAWA PD200/M120 MITUSI TR300/350A/400 TOYO TYPR120/220 TAMROCK L600/750 YAMAMOTO YD130M/135/145 TEISAKU TR300 G.D.PR123VS I.R.URD475/550V/120/VL140/EVL130	R32	11	355	4.0	76F20C355
			R38	11	355	4.0	76F20D355
			T38	11	380	4.3	76F20F380
			T38	11	446	5.0	76F20F446
			T45	11	446	5.0	76F20G446



SHANK ADAPTER

S.N	Rough Drawing	Drifter	Thread	Flushing Tube Dia	Length	Approx Weight	Part No.
GARDENER DENVER							
NG01		G.D PR66	T38	16	711	6.2	76G01F711
			T45	16	711	6.5	76G01G711
NG02		G.D HPR1H	R38	-	725	7.9	76G02D725
			T38	-	725	7.9	76G02F725
			T45	-	725	8.2	76G02G725
NG03		G.D HPR2H	T45	-	915	13.5	76G03G915
			T51	-	915	13.8	76G03H915
NG04		G.D PR133 FURUKAWA M120 I.R VL140	T38	16	446	4.5	76G04F446
			T45	16	446	4.8	76G04G446

INGASOLL-LAND

NI01		I.R YH50/55	R38	16	440	3.7	76I01D440
			T38	16	440	3.7	76I01F440
			T38	16	450	3.8	76I01F450
			R38	SF	517	5.1	76I01D517
NI02		I.R YH50RP/55RP	T38	16	540	4.3	76I02F540
			T38	SF	517	5.1	76I01F517
NI03		I.R LM500/YH65/70S/80	T38	12.5	705	7.8	76I03F705
			T38	12.5	480	5.0	76I03F480
			T38	12.5	495	5.1	76I03F495
			T38	12.5	580	6.0	76I03F580
			T45	15	580	6.0	76I03G580
			T45	19	705	7.8	76I03G705
			T45	19	480	5.0	76I03G480
			T45	19	500	5.4	76I03G500
NI04		YH80A	T38	15	500	5.5	76I04F500
			T45	15.5	500	5.7	76I04G500
			T51	15.5	500	6.4	76I04H500
NI05		I.R YH65RP/70RP/80RP	T38	19	700	7.6	76I05F700
			T45	19	700	7.9	76I05G700

S.N	Rough Drawing	Drifter	Thread	Flushing Tube Dia	Length	Approx Weight	Part No.
NI06		I.R YH95/YH100	T45 T51	23 23	625 625	7.4 8.3	76106G625 76106H625
NI07		I.R YH96RP/YH100RP	T45 T45 T51	23 23 23	720 840 840	8.6 10.5 10.9	76107G720 76107G840 76107H840
NI08		I.R YH110V/YH135V	T45 T51	- -	728 728	11.4 11.7	76108G728 76108H728
NI09		I.R YD90M/100M TEISAKU TRH200	R32 T38	11 11	330 330	2.4 2.6	76109C330 76109F330
			R32 R38	SF SF	480 480	3.4 3.7	76109C480 76109D480
NI10		URD475/550V/120/VL140 /EVL130	R38 T38	11 11	380 380	4.3 4.3	76110D380 76110F380

JOY/KOMATSU/KLEMM/KRUPP

N001		JOY VCR361	T38	19	440	5.0	76001F440
N002		JOY 260/360 TAMROCK HL844	R38 T38 T45	16 16 16	450 450 450	4.4 4.2 4.4	76002D450 76002F450 76002G450
NK01		KOMATSU KDH100(4Spline)	T38	14	455	3.5	76K01F455
NK02		KOMATSU KDH100(8Spline)	T38 T45	14 14	460 530	3.6 4.1	76K02F460 76K02G530
NK03		KLEMM 4026/4053	R55LI A55RE	- -	500 500	10.5 10.5	76K03L500 76K03R500
NK04		KRUPP HB103	R55LI A55RE	- -	500 500	9.4 9.4	76K04L500 76K04R500
NK05		KRUPP HB30A/40A	R55LI A55RE	- -	580 580	12.0 12.0	76K05L580 76K05R580
NK06		KRUPP HB30A/40A	C64LI	-	580	13.3	76K06L580



SHANK ADAPTER

S.N	Rough Drawing	Drifter	Thread	Flushing Tube Dia	Length	Approx Weight	Part No.
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MONTABERT

NM01		MONTABERT HC40	R32	SF	366	3.5	76M01C366
			R38	SF	372	3.5	76M01D372
			T38	SF	447	3.6	76M01F447
NM02		MONTABERT HC80	R32	SF	500	4.1	76M02C500
			R38	SF	440	4.4	76M02D440
			T38	SF	500	4.1	76M02F500
			T38	SF	440	3.7	76M02F440
NM03		MONTABERT HC120	T38	SF	490	5.4	76M03F490
			T45	SF	490	5.6	76M03G490
NM04		MONTABERT HC80RP	T45	-	670	7.5	76M04G670
NM05		MONTABERT HC120R	T45	-	670	9.7	76M05G670
NM06		MONTABERT HC120/HC150	T38	-	490	5.3	76M06F490
			T45	-	490	5.6	76M06G490
NM07		MONTABERT HC80R/HC120R /HC150R	T45	-	670	7.3	76M07G670
			T45	-	771	8.0	76M07G771
NM08		MONTABERT HC80R/HC120R /HC150R	T45	-	670	9.0	76M08G670
			T51	-	670	9.2	76M08H670
			T45	-	771	10.0	76M08G771
			T51	-	771	10.2	76M08H771
NM09		MONTABERT HC200R	T51	-	840	13.5	76M09H840

MITSUI/MITSUBISHI/SIG/SECOMA

NU01		MITSUI RPH400/600 DCH400/600	T38	14	450	8.0	76U01F450
			T38	14	520	9.2	76U01F520
			T45	14	470	5.7	76U01G470
			T38	14	610	11.0	76U01F610
NU02		MITSUI RPH200 HYDRASTAR 200/300	R38	SF	467	4.1	76U02D467
NU03		MITSUBISHI MCD6G	T38	SF	470	5.4	76U03F470

S.N	Rough Drawing	Drifter	Thread	Flushing Tube Dia	Length	Approx Weight	Part No.
NU04		SIG HBM100	R32	12.7	380	2.7	76U04C380
		TAMROCK HLR438L/438T, L550S(SF)	R38	12.7	380	3.2	76U04D380
NU05		SIG HBM150	R32	SF	500	3.9	76U05C500
			T38	SF	500	4.2	76U05F500
NU06		SECOMA HYDRASTAR200	R32	-	351	3.6	76U06C351

TAMROCK

NT01		TAMROCK HL300	R32	-	400	2.6	76T01C400
NT02		TAMROCK HL500/500S	R38	SF	460	3.9	76T02D460
			T38	SF	480	4.1	76T02F480
			R32	SF	550	4.1	76T02C550
			T38	SF	550	4.6	76T02F550
NT03		TAMROCK HL500-38/510-38	R32	-	550	4.3	76T03C550
			R38	-	550	4.5	76T03D550
			T38	-	550	4.6	76T03F550
NT04		TAMROCK HL500-45/510-45	R38	-	550	5.4	76T04D550
			T38	-	550	5.4	76T04F550
			T45	-	550	5.6	76T04G550
			T38	-	600	6.0	76T04F600
NT05		TAMROCK HL500S-38 510B / 510LH	R32	-	450	3.8	76T05C450
			R38	-	450	4.0	76T05D450
			T38	-	450	4.0	76T05F450
NT06		TAMROCK HL550 SUPER	R38	-	505	4.3	76T06D505
			T38	-	505	4.3	76T06F505
NT07		TAMROCK HL550S/560S	R38	SF	500	5.4	76T07D500
			T38	SF	500	5.4	76T07F500
			T45	SF	500	5.4	76T07G500
NT08		TAMROCK HL550 SUPER M92 560 SUPER/510T	R32	-	500	5.0	76T08C500
			R38	-	500	5.3	76T08D500
			T38	-	500	5.3	76T08F500
NT09		TAMROCK HL600-45	R38	-	600	6.1	76T09D600
			T38	-	600	6.1	76T09F600
			T45	-	600	6.3	76T09G600

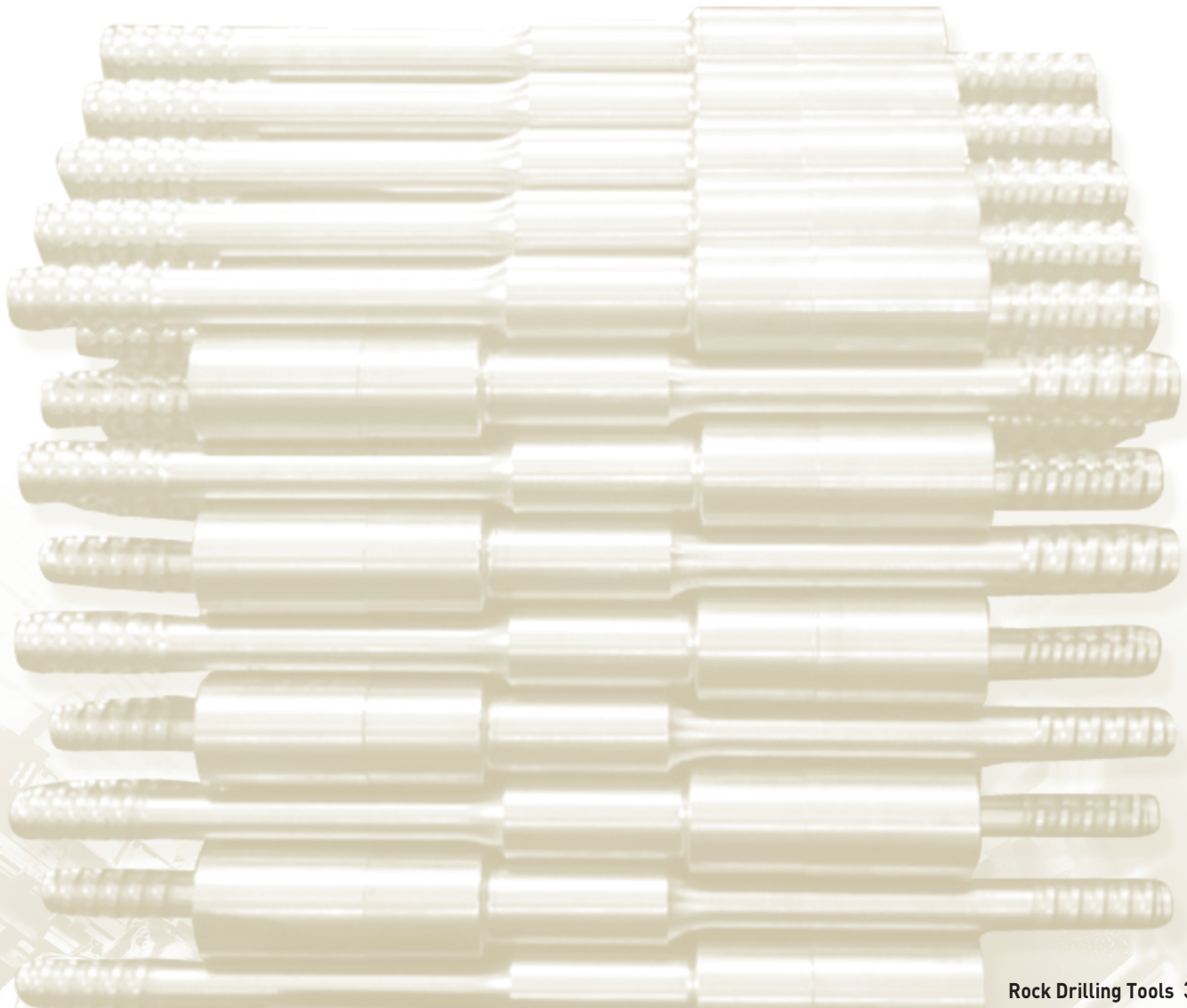


SHANK ADAPTER

S.N	Rough Drawing	Drifter	Thread	Flushing Tube Dia	Length	Approx Weight	Part No.
NT10		TAMROCK HL600-52	T45	-	650	8.2	76T10G650
			T51	-	650	8.3	76T10H650
			T51	-	710	8.9	76T10H710
NT11		TAMROCK HL600S-45	T38	-	525	5.7	76T11F525
			T45	-	650	8.3	76T11G650
NT12		TAMROCK HL645/645S	R32	SF	600	6.3	76T12C600
			R32	SF	525	5.5	76T12C525
			T38	SF	600	6.6	76T12F600
			T38	SF	525	5.8	76T12F525
			T45	SF	600	6.9	76T12G600
NT13		TAMROCK HL700/800	T45	SF	600	7.25	76T13G600
			T51	SF	600	7.25	76T13H600
NT14		TAMROCK HL700-45	T38	-	600	7.1	76T14F600
			T45	-	600	7.3	76T14G600
NT15		TAMROCK HL700-52	T45	-	600	8.4	76T15G600
			T51	-	600	8.4	76T15H600
NT16		TAMROCK HL850	T45	19	500	6.3	76T16G500
			T51	19	500	7.4	76T16H500
NT17		TAMROCK HL850S	T45	SF	670	9.2	76T17G670
			T51	SF	670	9.85	76T17H670
NT18		TAMROCK HL1000/1000S	T45	SF	670	10.3	76T18G670
			T51	SF	590	9.4	76T18H590
NT19		TAMROCK HL1000-52	T51	-	590	9.7	76T19H590
			T45	-	670	10.0	76T19G670
			T51	-	670	10.3	76T19H670
NT20		TAMROCK HL1500	WD58	SF	635	22.1	76T20I635
			WD68	SF	635	27.5	76T20K635
NT21		TAMROCK HL1500-60	ST58	-	710	13.7	76T21I710
			T60	-	710	13.7	76T21J710
NT22		TAMROCK HLX5	T38	SF	500	5.8	76T22F500
			R38	SF	500	5.8	76T22D500
			T38	SF	575	6.7	76T22F575
			T45	SF	575	6.7	76T22G575

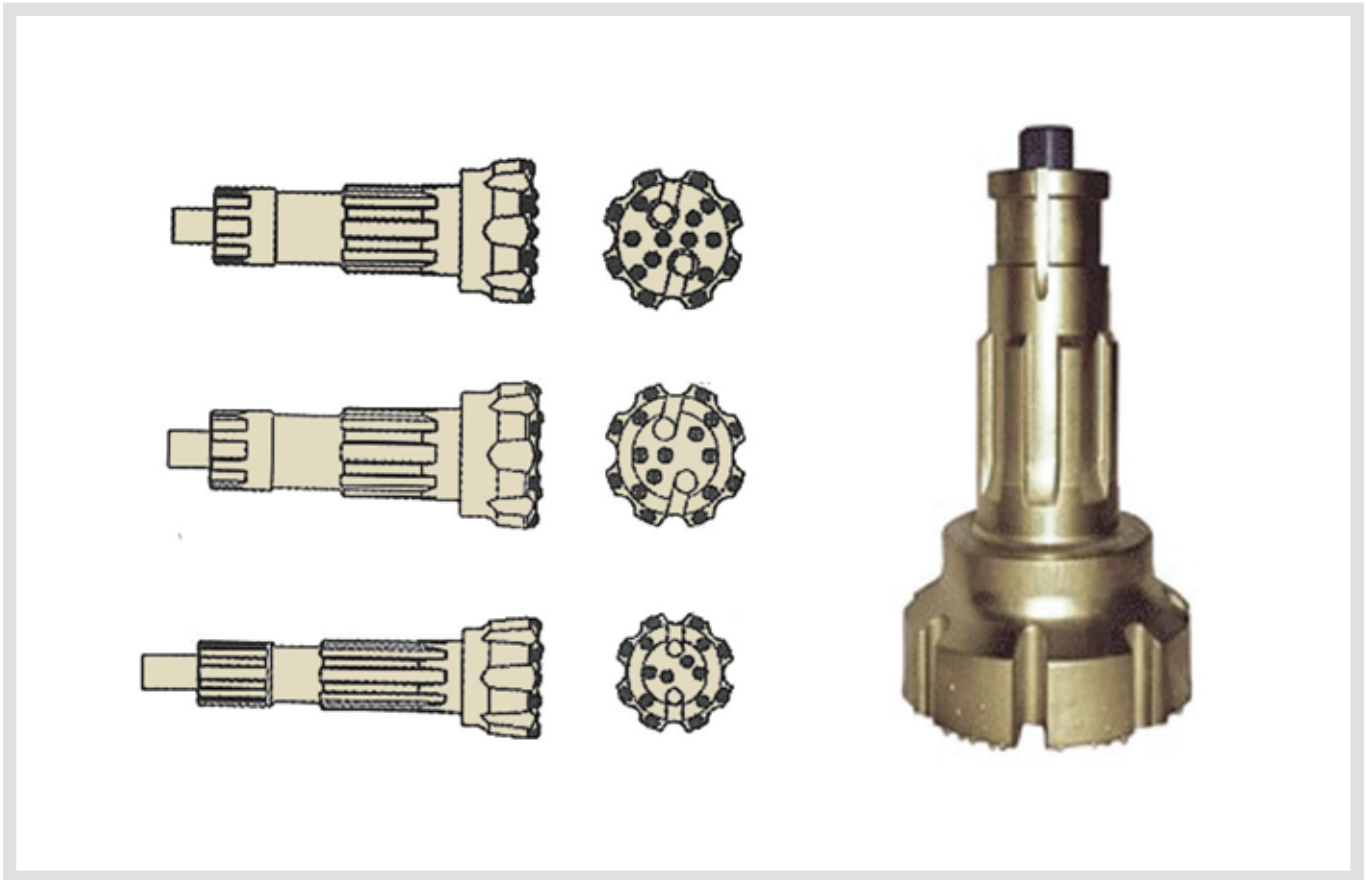


S.N	Rough Drawing	Drifter	Thread	Flushing Tube Dia	Length	Approx Weight	Part No.
TOYO							
NY01		TOYO TH500/501/501S/550	T38 T38 T38 T45	12 12 12 12	490 570 550 570	5.0 5.9 5.8 6.1	76Y01F490 76Y01F570 76Y01F550 76Y01G570
NY02		TOYO TH800/900 TOYO TH800R/RP	R38 T45 T38 SF	SF SF SF SF	498 498 750 765	3.9 3.9	76Y02D498 76Y02G498 76Y02F750 76Y02F765
NY03		TOYO TH900(L)	T45	SF	512	6.4	76Y03G512





DOWN THE HOLE BIT



Recommended Hole Dia	Model
3 5/8" [90] - 4" [102]	IR 3.5, COP34, MACH33
4 1/8" [105] - 5" [127]	QL40, MACH44, SD-4, DHD340, COP44
5 1/8" [127] - 5 3/4" [146] 5 1/8" [130] - 6" [152]	SD5, DHD350, COP54, MACH50, QL50
6" [152] - 7 1/2" [190] 6" [152] - 8 1/2" [216]	DHD360, MACH60, SD-6, COP64, QL60, Mission 6
7 1/2" [190] - 10" [253] 7 3/4" [195] - 10 5/8" [253]	SD8, MACH 80/88, DHD380, COP84
7 7/8" [195] - 12" [305]	QL80

BREAKER TOOLS



Moil Point

general use with demolition work
breaking up slag in steel mills
demolishing foundation



Chisel(V/H)

general use with additional cutting
action and pits in rocky subsoil
separating rock slabs



Blunt

Crushing large rock pieces ground
compression crushing slag

Manufacture	Model
Soosan	SB
Komac	KB
Msb	MS
Atras copco	MB,HB,TEX, SB
Furukawa	F, HB
Indeco	MES, HP
Montabert	BRP, BRH, BRV, M
Krupp	HM
N.P.K	E, H, GH
Okada	OKB
Rammer	S, E, G
Stanley	MB



The specification of each manufacturing co' is available upon customer's request





PRECISION PARTS



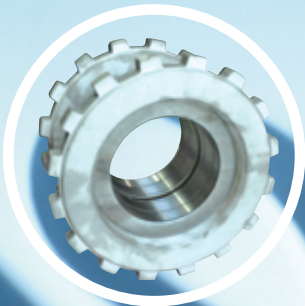
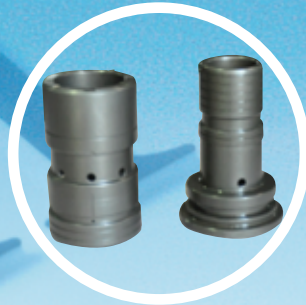
Bits



Coupling & Shank



Breaker Parts



Hardox 600 Parts



Rock Tool & Braker Parts



Breaker Piston

FACILITIES



Vertical Machining Center
(1200×650×550)



Radial Drilling M/C(1500mm)



Milling M/C(#5)



Horizontal Machining Center
(600×600)



Heating Furnace for Bit



Milling M/C(#2)



Hyd' Press for Bit



Air Gauge



Vertical Machining Center
(900×550×450)



CNC Lathe Line



CNC Lathe 15"



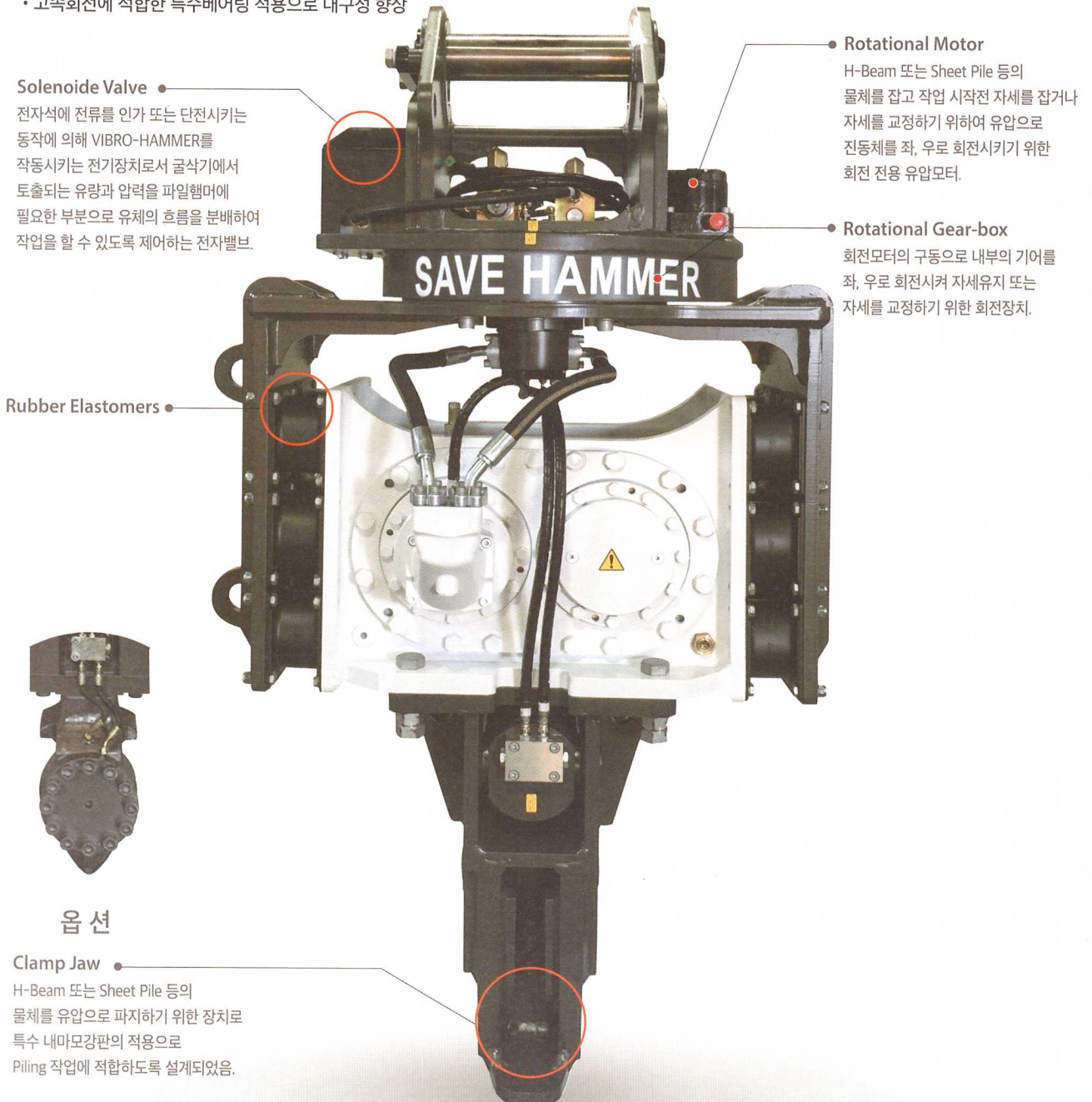
CNC Lathe 12"

VIBRO-HAMMER - ORDINARY TYPE

굴삭기에 장착하여 사용하는 바이브로 해머는 토목 및 건설현장, 흙막이 공사에 필요한 H-BEAM, SHEET PILE 압입, 인출에 최적화된 장비입니다.

» 특징점

- 크레인 작업대비 우수한 유지비용.
- 협소공간 및 복잡한 시가지에서의 기동성
- 굴삭기의 유압라인을 활용하여 작동되므로 별도의 동력원이 필요하지 않음.
- 도심지 및 모든 토목현장의 흙막이공사, 가시설공사등의 현장에 적용가능.
- 360도 자동회전 기능으로 파일 작업시 방향전환이 편리함
- 검증된 고품질의 방진고무 적용으로 굴삭기로 전달되는 진동을 차단하고, 강력한 진동에서 내구성이 뛰어남.
- 고속회전에 적합한 특수베어링 적용으로 내구성 향상



Solenoid Valve
전자석에 전류를 인가 또는 단전시키는 동작에 의해 VIBRO-HAMMER를 작동시키는 전기장치로서 굴삭기에서 토출되는 유량과 압력을 파일해머에 필요한 부분으로 유체의 흐름을 분배하여 작업을 할 수 있도록 제어하는 전자밸브.

Rotational Motor
H-Beam 또는 Sheet Pile 등의 물체를 잡고 작업 시작전 자세를 잡거나 자세를 교정하기 위하여 유압으로 진동체를 좌, 우로 회전시키기 위한 회전 전용 유압모터.

Rotational Gear-box
회전모터의 구동으로 내부의 기어를 좌, 우로 회전시켜 자세유지 또는 자세를 교정하기 위한 회전장치.

Rubber Elastomers

옵 션

Clamp Jaw
H-Beam 또는 Sheet Pile 등의 물체를 유압으로 파지하기 위한 장치로 특수 내마모강판의 적용으로 Piling 작업에 적합하도록 설계되었음.

VIBRO-HAMMER - TILTING TYPE

굴삭기에 장착하여 사용하는 바이브로 해머는 토목 및 건설현장, 흙막이 공사에 필요한 H-BEAM, SHEET PILE 압입, 인출에 최적화된 장비입니다.

» 특징점

- 90도 굴절기능으로 파일을 집어서 바로 작업이 가능.
※ 일반타입 대비 작업효율 증대
- 자동 굴절기능으로 바닥에 있는 파일을 직접 잡을 수 있음.
- 기존의 브레이크 배관을 활용한 손쉬운 설치 및 사용.
- 360도 자동회전 기능으로 파일작업시 쉽게 방향을 전환
- 고품질의 방진고무를 사용하여 강력한 진동에서도 뛰어난 내구성
- 별도의 파워팩없이 뛰어난 성능
- 미끄럼 없이 강력한 파지장치.

Solenoid Valve

전자석에 전류를 인가 또는 단전시키는 동작에 의해 VIBRO-HAMMER를 작동시키는 전기장치로서 굴삭기에서 토출되는 유량과 압력을 파일해머에 필요한 부분으로 유체의 흐름을 분배하여 작업을 할 수 있도록 제어하는 전자밸브.

Rubber Elastomers

진동의 전달을 저감시킨다.

Rotational Motor

H-Beam 또는 Sheet Pile 등의 물체를 잡고 작업 시작전 자세를 잡거나 자세를 교정하기 위하여 유압으로 진동체를 좌, 우로 회전시키기 위한 회전 전용 유압모터.

Rotational Gear-box

회전모터의 구동으로 내부의 기어를 좌, 우로 회전시켜 자세유지 또는 자세를 교정하기 위한 회전장치.

Tilting Cylinder

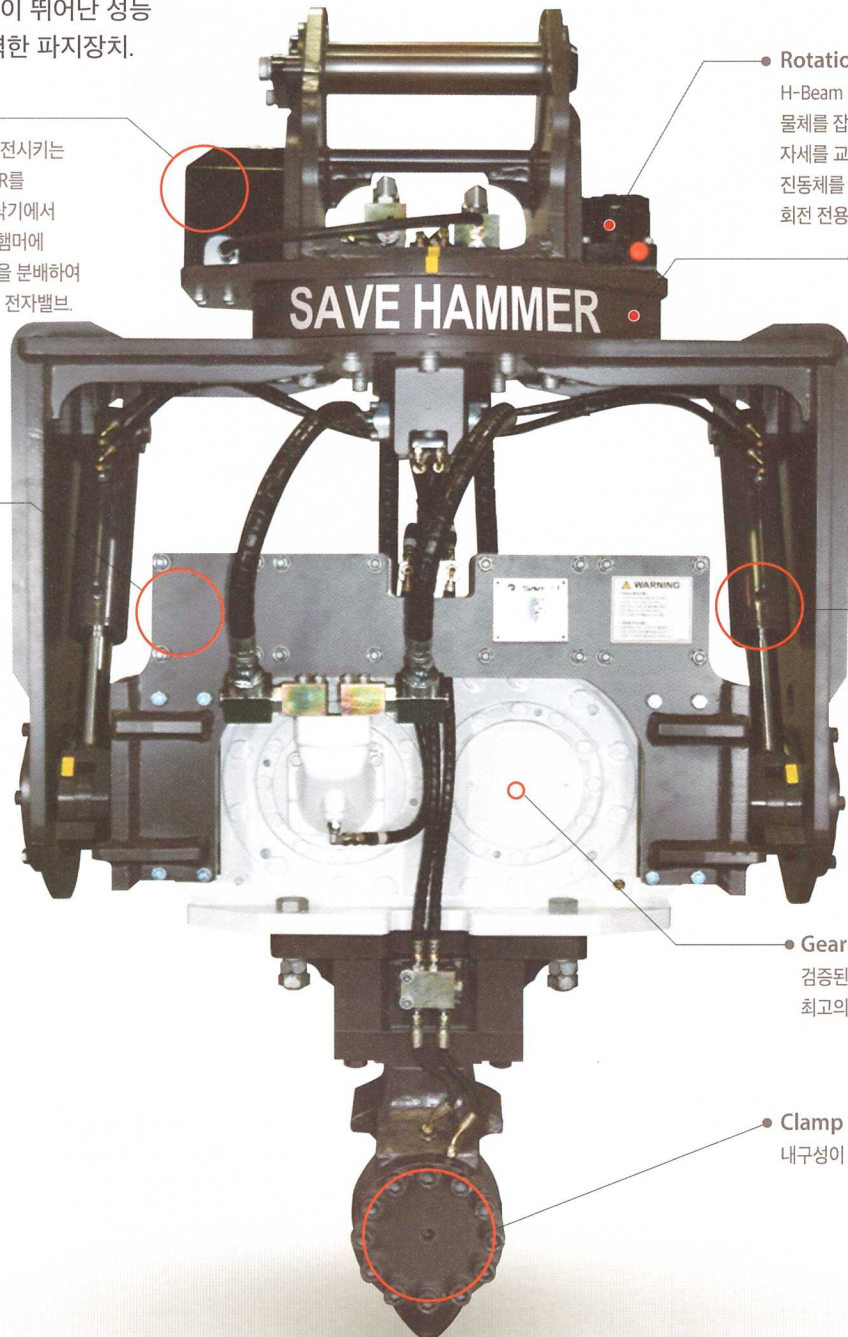
바닥에 있는 파일을 잡거나, 뽑은 파일을 눕힐때 사용하는 틸팅 실린더

Gear Box

검증된 기어 및 편심을 적용하여 최고의 진동을 발생시킨다.

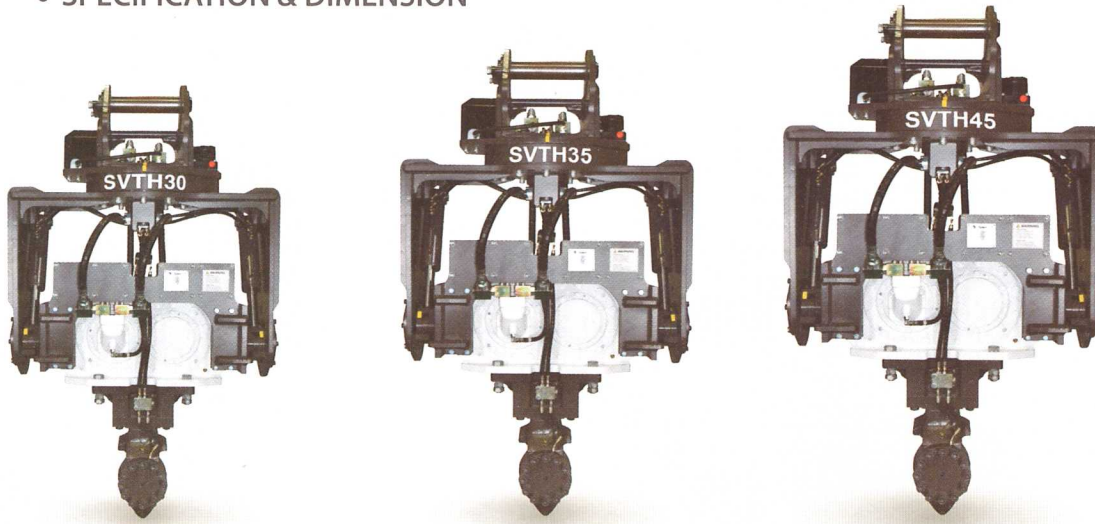
Clamp Jaw

내구성이 강화된 특수강으로 제작

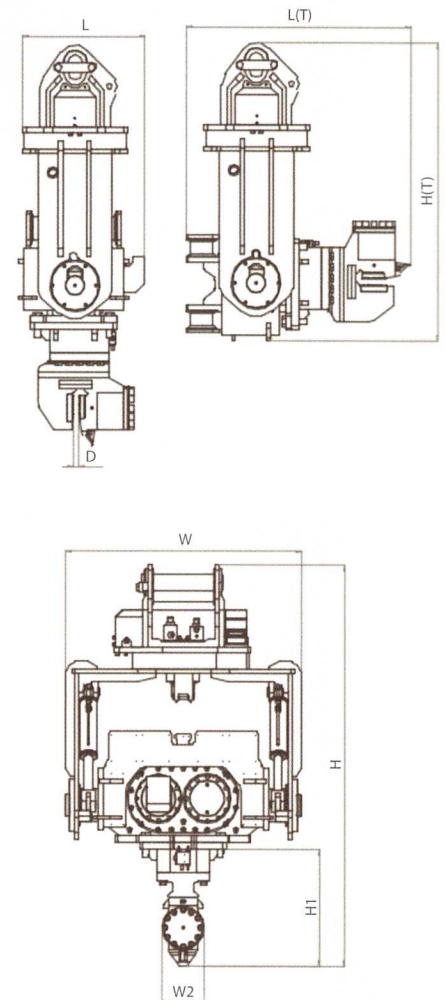


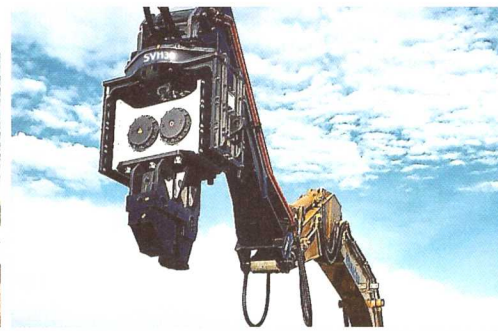


• SPECIFICATION & DIMENSION

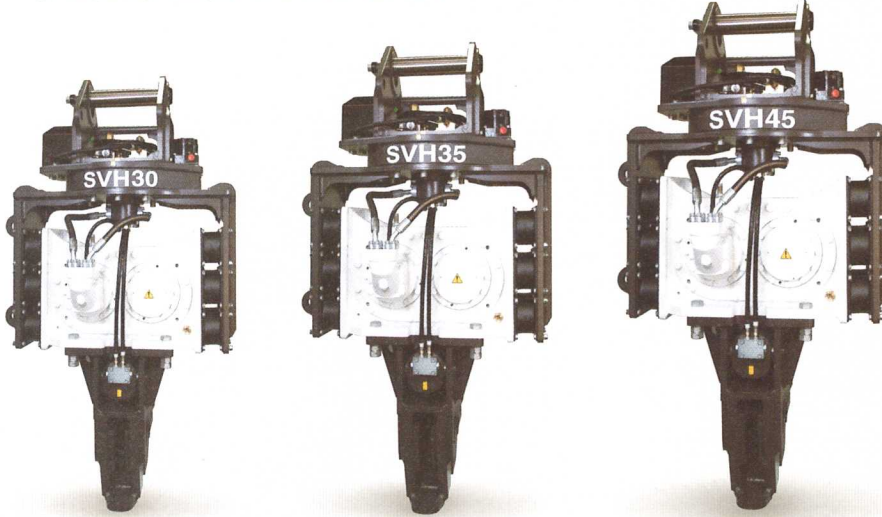


MODEL		Unit	SVTH30	SVTH35	SVTH45
Eccentric moment	kgm	6	10	16	
	in.lbs	470	920	1400	
Max. Centrifugal force	kN	640	1,000	1,500	
	mm	10	18	25	
Max. Amplitude	inch	0.4	0.7	0.9	
	rpm	2,700	2,700	2,700	
Max. Frequency	bar	200~250	270~320	280~320	
	psi	2,900~3,600	3,900~4,600	4,060~4,600	
Oil Flow	l/m	170~210	180~230	230~280	
	degree	360 / 90	360 / 90	360 / 90	
Rotation / Tilt Angle	kg	2,200	2,320	2,450	
	ton	40	40	40	
Total Weight	mm	2,224	2,252	2,280	
	inch	87	88	89	
Clamping Force(200bar)	mm	623	623	623	
	inch	24	24	24	
DIMENSION	Height(H)	mm	1,653	1,659	1,670
		inch	65	65	65
	Length(L)	mm	1,300	1,325	1,360
		inch	51	52	53
	Length(L)	mm	710	730	745
		inch	27	28	29
Width(W)	mm	1,363	1,421	1,480	
	inch	53	55	58	
Width(W2)	mm	245	245	245	
	inch	9.6	9.6	9.6	
Clamp Jaw(D)	mm	31	31	31	
	inch	1.2	1.2	1.2	
Application Excavator		ton	20~33	32~39	38~55

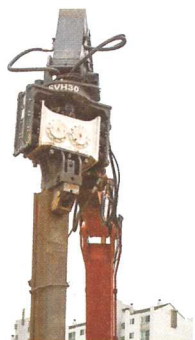
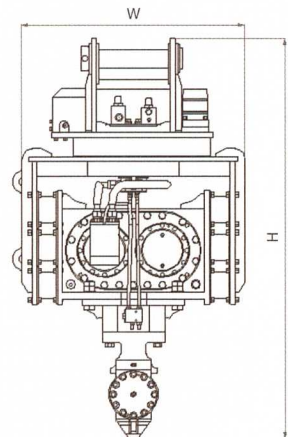
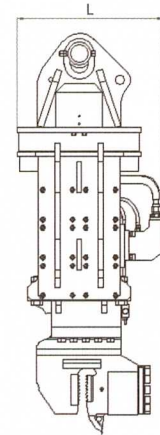




• SPECIFICATION & DIMENSION



MODEL	Unit	SVH30	SVH35	SVH45	
Eccentric Moment	kg.m	6	10	16	
Centrifugal Force	kN	640	1,000	1,500	
Max Amplitude	mm	10	18	25	
	inch	0.31	0.47	0.98	
Max Frequency	rpm	2,700	2,700	2,700	
	Oil Flow	ℓ/m	170~210	180~220	200~250
Hydraulic Pressure	bar	200~250	270~320	280~320	
	psi	2,900~3,600	3,190~3,625	4,060~3,625	
Slewing	degree	360	360	360	
DIMENSION	Height(H)	mm	1,964	2,035	2,111
		inch	77	80	83
	Length(L)	mm	729	729	805
		inch	29	29	31
	Width(W)	mm	1,077	1,135	1,214
		inch	42	44	47
	Weight	kg	1,690	1,800	1,950
		lbs	3,725	3,968	4,299
Application Excavator	ton	20~33	32~39	38~55	



VIBRO-RIPPER

브레이크 기술의 변화

세이브 VIBRO-RIPPER는 과거의 소음으로 시끄러웠던 작업현장의 환경을 좀 더 조용하게 작업을 할 수 있는 기능을 갖춘 친환경적 파쇄용 브레이커 입니다.

- 최소의 소음(90db이하)
- 브레이커 대비 높은 작업효율
- 고연비 효과
- 친환경적 작업
- 자유로운 수중작업
- 간편한 유지관리
- 사용중 윤활급유 불필요
- 경제적 내마모성 투스 적용
- 최적의 설계로 간편한 정비



Upper, Under Link
VIBRO-RIPPER의 작업시 발생하는 Body의 상하좌우 진동 및 충격과 인장력을 견디어 진동체의 내구성을 증대시키는 구성품.

Hydraulic Motor
커버를 분해하면 진동을 발생시키기 위한 유압모터가 장착되어 있음.

Motor Cover
정비성 향상을 위해 설계된 부분으로 유압모터를 보호하기 위한 커버

Housing
Body와 연결하여 Body의 중요장치를 보호하고 진동및충격을 받아들이어 진동체의 파손을 막아주는 구성품

Tooth
리퍼의 작업시 암석등의 단단한 물체를 파고드는 도구로서 특수 내마모성 소재를 적용 제작하여 기성품대비 경제성이 뛰어난.

Top Bracket
굴삭기와 VIBRO-RIPPER를 연결시켜주는 연결장치로서 굴삭기의 모델에 따라 규격이 다름.

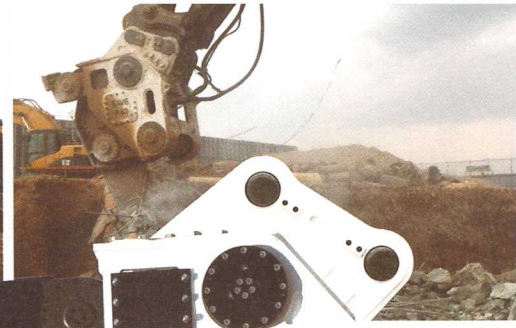
Control Valve
굴삭기에서 공급되는 오일의 압력과 유량을 제어하여 유압모터에 공급하는 제어블럭

IN, OUT Port
굴삭기에서 공급되는 오일이 유압모터로 들어가 모터를 구동시키고 유압모터를 구동시킨 오일이 굴삭기의 탱크로 빠져나가는 오일출입구.

Drain Port
유압모터를 구동시키고 OUT라인으로 빠져나가지 못한 압력과 오일을 배출 시켜주는 라인

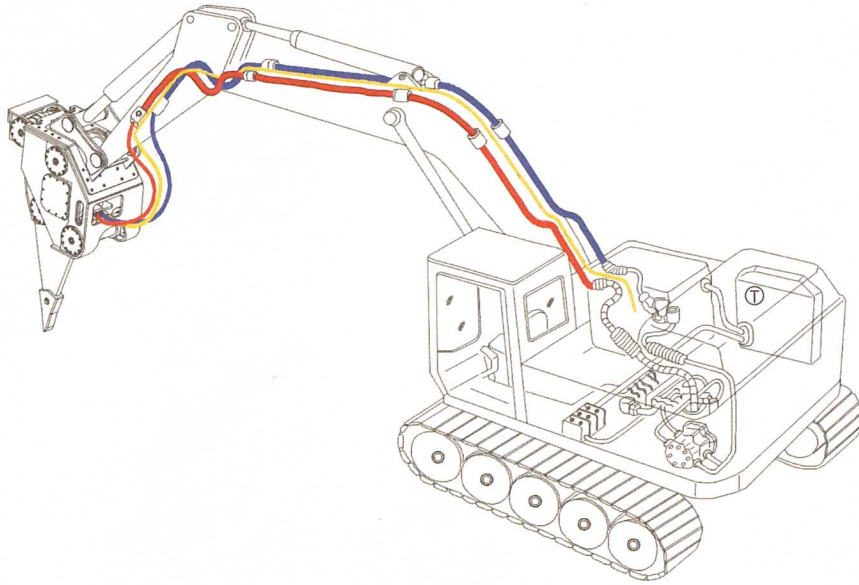
Body
진동체와 투스, 유압모터, Housing, Upper Link, Under Link가 결합되는 구성품.

세이브 VIBRO-RIPPER의 주요부위는 내마모성 소재를 적용하여 제작 되었습니다. 브레이커 대비 저소음 작업이 가능하고 작업량 또한 브레이커 대비 암질에 따라 2~4배의 작업효율을 자랑합니다. 또한, 수중 작업시에도 별도의 장치 없이 강물, 바다속의 어떠한 환경에서도 작업이 가능합니다. 세이브 VIBRO-RIPPER는 최소의 유지비용으로 사용자 분들께 경제적 이익을 드릴것 입니다.



VIBRO-RIPPER PIPING LINE SYSTEM

기본라인구성 : 굴삭기의 고압라인, 저압라인, 드레인라인은 전기중 공통이며, 드레인라인의 용도는 모터를 보호하기 위하여 필요하므로 반드시 설치를 하고 사용하여야 함.

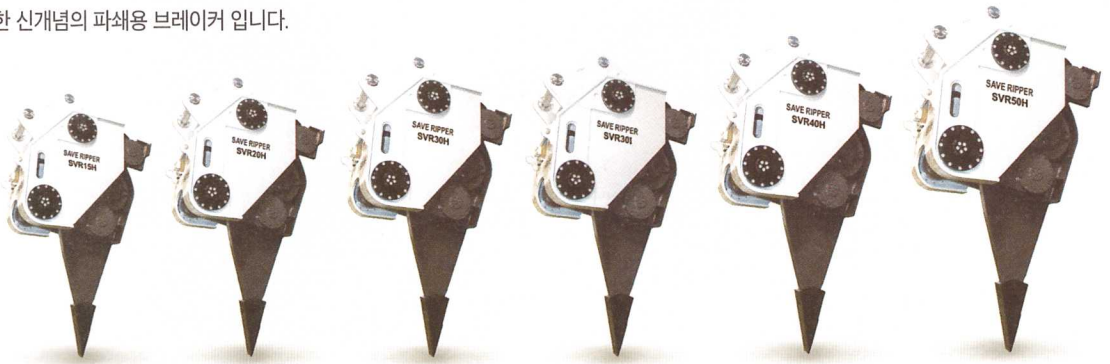
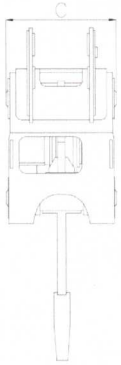


- **INPUT LINE(고압)** : VIBRO-RIPPER를 작동하기 위해 유압모터에 오일을 공급해주는 유압 공급라인으로 적정 압력과 유량을 사용하여야 함.
- **OUTPUT LINE(저압)** : 유압모터를 구동시킨 오일이 빠져 나가는 라인이며, 오일탱크로 연결되어 있어야함.
- **DRAIN LINE(드레인)** : 유압모터를 구동시키면서 OUT LINE으로 빠져나가지 못한 압력과 오일을 배출시켜 모터를 보호하는 라인(**반드시 설치후 사용하여야 함**).
- ① 오일탱크 : 굴삭기의 작동오일이 저장되는 용기.

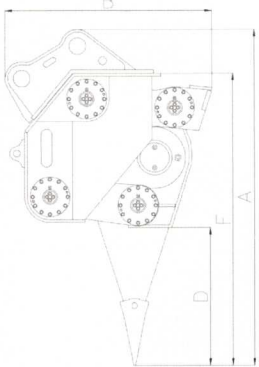
◀ SVR30I

고품질, 고성능, 고효율의 신기술 VIBRO-RIPPER

세이브 VIBRO-RIPPER는 암반, 콘크리트, 아스팔트, 터널굴착, 석산채석, 수중작업 등 모든 건설현장에 적용 가능한 신개념의 파쇄용 브레이커 입니다.



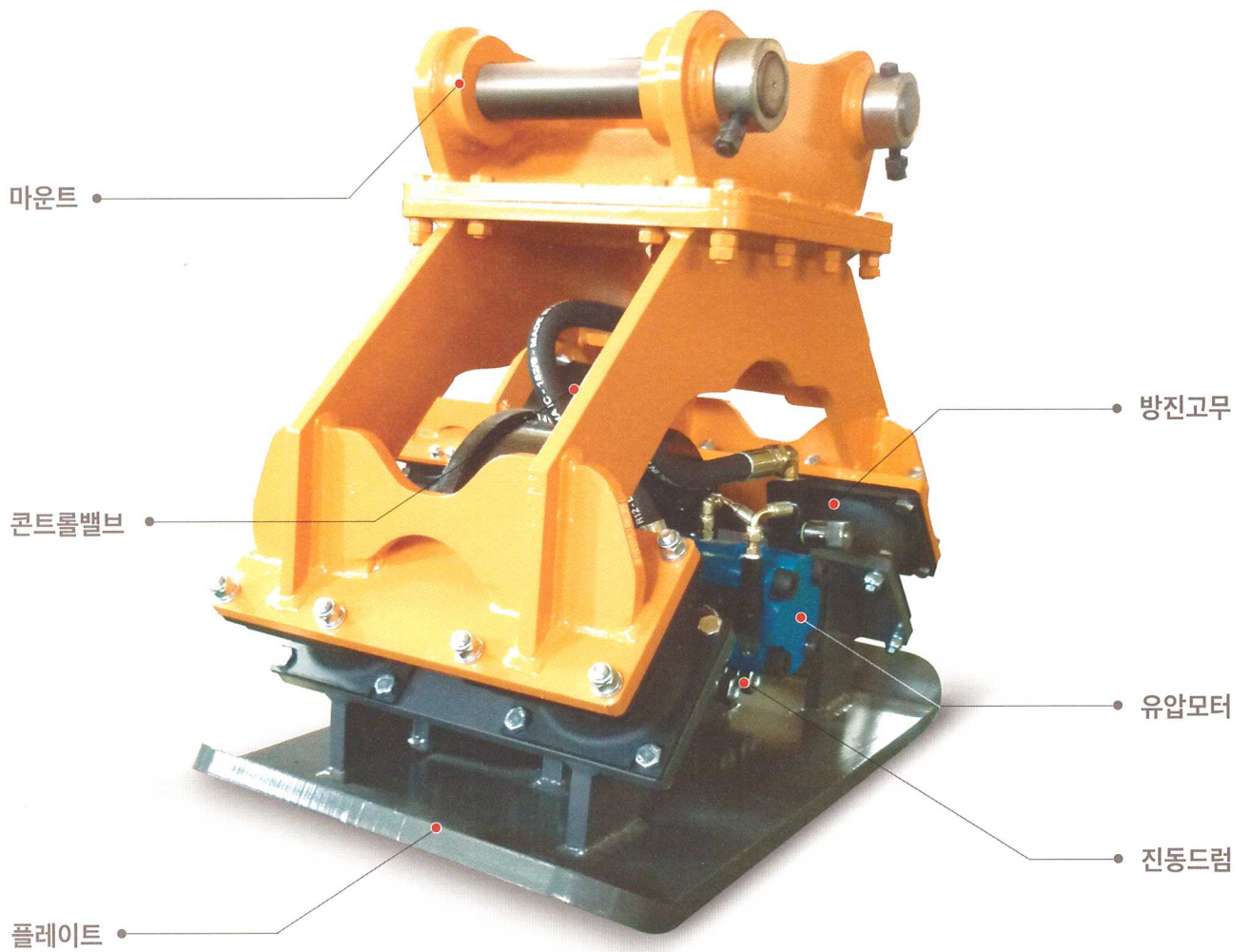
Description		Unit	SVR15H	SVR20H	SVR30H	SVR30I	SVR40H	SVR50H
Weight		kg	1,600	2,500	3,150	3,150	4,600	5,600
Flow		ℓ/min	100~120	170~190	180~200	180~200	200~220	250~260
Pressure		bar	180~200	210~220	240~250	240~250	240~250	240~250
Frequency		rpm	1,500	1,500	1,400	1,400	1,300	1,200
Dimension	A	mm	1,650	2,420	2,720	2,720	3,150	3,300
	B	mm	870	1,480	1,510	1,510	1,940	2,010
	C	mm	500	780	840	840	1,040	1,040
	D	mm	750	990	1,150	1,150	1,350	1,490
	F	mm	1,350	2,100	2,400	2,400	2,760	2,900
Air bag pressure		bar	5	6	6	6	6	6
Application Excavator		ton	12~16	18~26	22~30	22~30	28~39	38~55



COMPACTOR

COMPACTOR VIBRATION MECHANISM

방진고무를 최적의 각도로 배열하여 내구성 및 경제성 향상과 간편하게 정비, 부품교환을 할 수 있도록 설계되었습니다.

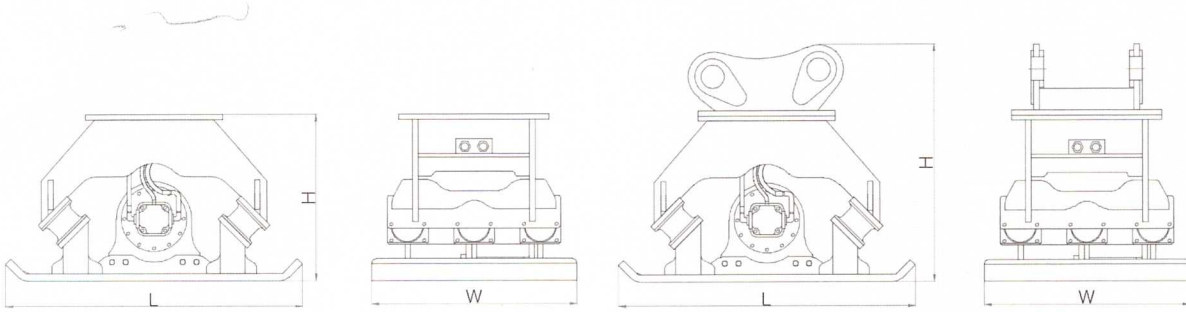


»» 특징점

- 유압모터와 콘트롤밸브에 모터 보호용 체크밸브를 적용하여 별도의 드레인라인이 필요없음.
- 상부에 마운트 어댑터 타입을 적용하여 다양한 종류의 장비에 장착이 가능.(옵션)
- 방진고무의 내구성 및 경제성 증대를 위한 최적의 각도로 배열하여 설계.
- 고효율의 유압모터가 장착되어 최적의 다짐력 발휘.
- 작동압력과 작동유량을 조정할 수 있는 Control Valve를 적용하여 유압모터 보호 및 성능을 최적화.
- 진동체 내부에 특수 베어링을 적용하여 내구성 강화.



• SPECIFICATION & DIMENSION



구분		Unit	SWC30	SWC60	SWC80	SWC100
다짐력		ton	4	7.5	15	15
최대진동수		rpm	1,800	1,800	2,000	2,000
사용유량		l/min	45~65	80~110	120~170	150~200
사용압력		bar	100~170	150~210	170~220	170~220
중량		kg	350	644	1,060	1,150
다짐판치수 (L × W)		mm	900 × 550	1,160 × 700	1,350 × 900	1,350 × 900
높이 (H)	Adapter Type	mm	540	676	730	730
	Direct Type	mm	751	922	1,043	1,092
적용 굴삭기		ton	4~5	13~16	18~25	28~30

