

Global Fluid Dynamics Rock Drilling Tools



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Drifting and Tunneling

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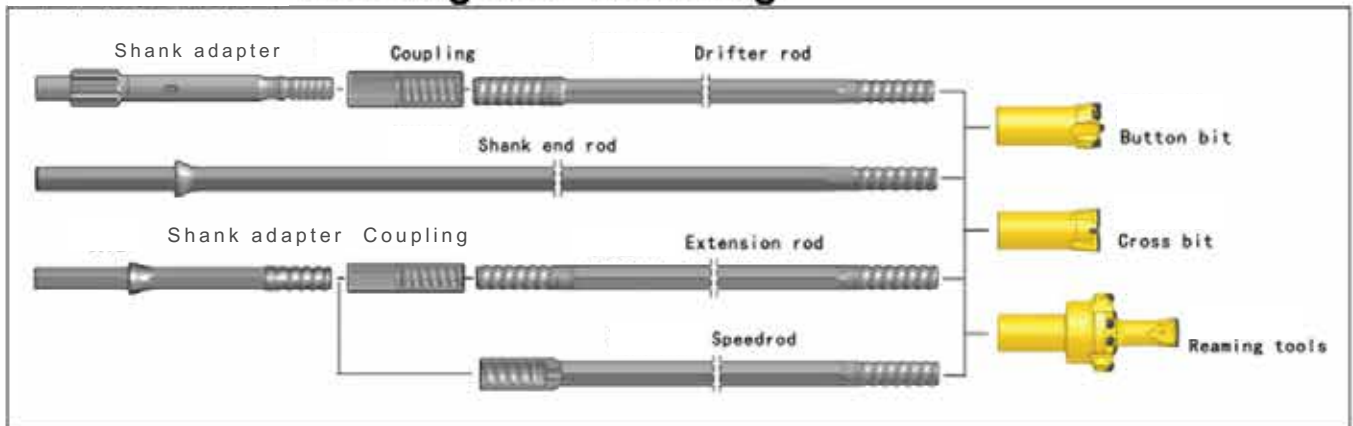


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Drifting and tunneling

R25

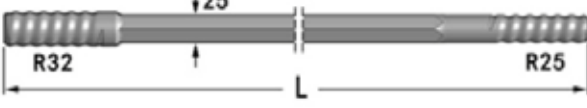
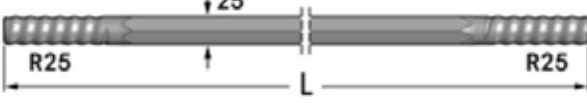
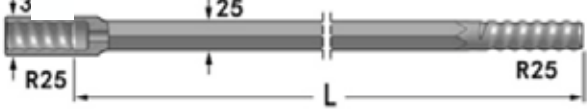


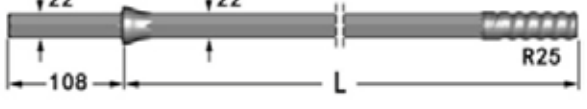
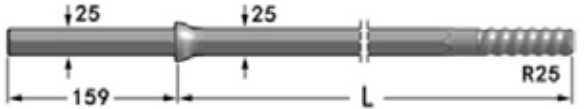
Drill bit	Diameter		No X button diameter			Flushing hole		Weight approx kg	ANMA P/N
	mm	inch	Front	Gauge	Angle	Front	Side		
Button bit  	Spherical buttons								
	33	1 19/64	2X7	5X7	35°	1	1	0.4	1431-33R25-27/57-45-41
	35	1 3/8	2X7	5X8	35°	1	1	0.4	1431-35R25-27/58-45-41
	38	1 1/2	2X7	5X8	30°	1	1	0.5	1431-38R25-27/58-45-41
	38	1 1/2	2X7	5X9	30°	1	1	0.5	1431-38R25-27/59-45-41
	41	1 5/8	2X9	4X9	35°	1	2	0.6	1431-41R25-29/49-45-41
	41	1 5/8	2X8	5X9	35°	1	1	0.6	1431-41R25-28/59-45-41
	45	1 3/4	2X9	4 X 11	35°	1	2	0.6	1431-45R25-29/411-45-41
	45	1 3/4	2X8	5 X 10	30°	1	2	0.6	1431-45R25-28/510-45-41
	45	1 3/4	2X8	5 X 11	30°	1	2	0.6	1431-45R25-28/511-45-41
	Parabolic buttons								
	33	1 19/64	2 X 7	5 X 7	35°	1	1	0.4	1431-33R25-27/57-45-51
	35	1 3/8	2X7	5X9	25°	1	1	0.4	1431-35R25-27/59-45-51
	38	1 1/2	2X7	5X9	40°	1	1	0.5	1431-38R25-27/59-45-51
	41	1 5/8	2X8	5X9	40°	1	1	0.6	1431-41R25-28/59-45-51
	45	1 3/4	2X9	5 X 10	35°	1	2	0.6	1431-45R25-29/510-45-51
Reaming bit 6° 	64	2 1/2	2X10	8X9	35°	-	-	0.8	1441-646-210/89-45-41
	64	2 1/2	4X8	8X9	25°	-	-	0.8	1441-646-48/89-45-41
	76	3	2 X 11	8 X 11	35°	-	-	1.2	1441-766-211/811-45-41
	76	3	4 X 10	8 X 10	30°	-	-	1.2	1441-766-410/810-45-41
	89	3 1/2	4X11	8 X 11	35°	-	-	1.7	1441-896-411/811-45-41
	89	3 1/2	4 X 10	8 X 10	30°	-	-	1.7	1441-896-410/810-45-41
Pilot adapter 6° 	26	1 1/32	12X8		-	-	-	1.3	1442-26R25-12/8-42-22
Cross-type bit 	33	1 19/64	14X8		-	1	2	0.4	1221-33R25-14/8-42-23
	35	1 3/8	14X8		-	1	2	0.5	1221-35R25-14/8-42-23
	38	1 1/2	14X8		-	1	4	0.6	1221-38R25-14/8-42-23
	41	1 5/8	14X8		-	1	4	0.7	1221-41R25-14/8-42-23
	43	1 11/16	14X8		-	1	4	0.7	1221-43R25-14/8-42-23
	45	1 3/4	14X8		-	1	2	0.8	1221-45R25-14/8-42-23
	51	2	14X8		-	1	4	1.1	1221-51R25-14/8-42-23



Drifting and tunneling

R25

Drill rod	Length		Diameter		Weight approx kg	ANMA P/N
	mm	Foot	mm	inch		
Drifter rod, R32-Hex25-R25 Flushing hole 8.6mm. 	2100	7'	25	1"	8.6	22H25-R25/R32-2100-23
	2400	8'	25	1"	9.6	22H25-R25/R32-2400-23
	2600	8' 8"	25	1"	10.4	22H25-R25/R32-2600-23
	2800	9'	25	1"	11.1	22H25-R25/R32-2800-23
	3090	10'	25	1"	12.2	22H25-R25/R32-3090-23
	3700	12'	25	1"	14.6	22H25-R25/R32-3700-23
Extension rod, R25-Hex25-R25 Flushing hole 8.6mm. 	915	3'	25	1"	3.4	23H25-R25-0915-23
	1000	3' 33/8"	25	1"	4.0	23H25-R25-1000-23
	1220	4'	25	1"	4.6	23H25-R25-1220-23
	1525	5'	25	1"	5.8	23H25-R25-1525-23
	1830	6'	25	1"	7.0	23H25-R25-1830-23
	2435	8'	25	1"	9.3	23H25-R25-2435-23
	3050	10'	25	1"	12.0	23H25-R25-3050-23
Speedrod, R25-Hex25-R25 Flushing hole 8.6mm. 	610	2'	25	1"	2.7	24H25-R25/35-0610-23
	1220	4'	25	1"	5.1	24H25-R25/35-1220-23

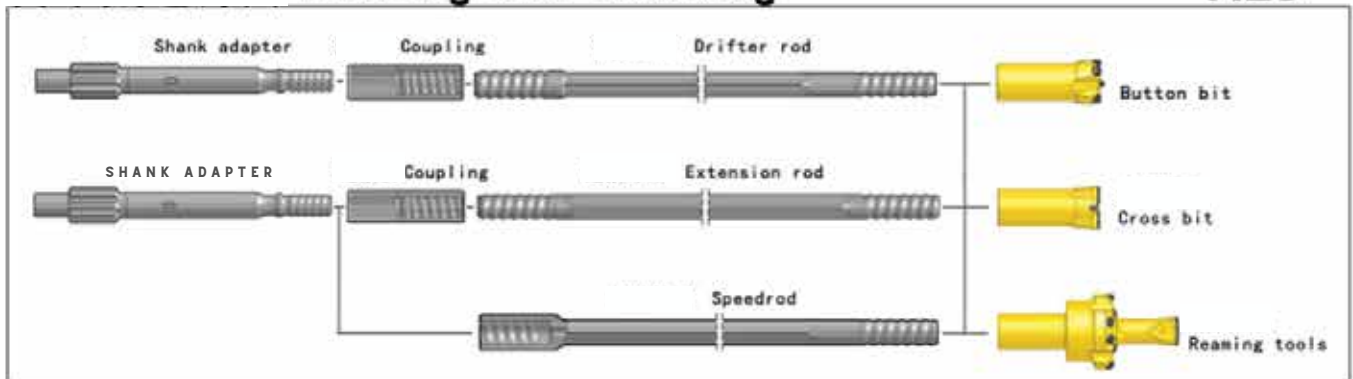
Shank end rod	Length		Diameter		Weight approx kg	ANMA P/N
	mm	Foot	mm	inch		
Shank adapter/rod 	22mm X 108mm		Shank 22mm X 108mm			
	610	2'	22	7/8	2.6	21H22-R25/108-0610-40
	760	2' 6"	22	7/8	2.9	21H22-R25/108-0760-40
	1000	3' 3"	22	7/8	3.7	21H22-R25/108-1000-40
	1200	4'	22	7/8	4.4	21H22-R25/108-1200-40
	1830	6'	22	7/8	6.3	21H22-R25/108-1830-40
	2435	8'	22	7/8	8.1	21H22-R25/108-2435-40
	3200	10' 6"	22	7/8	10.6	21H22-R25/108-3200-40
	3600	12'	22	7/8	12.0	21H22-R25/108-3600-40
	25mm X 159mm		Shank 25mm X 159mm			
	2700	8' 10"	25	1"	11.3	21H25-R25/159-2700-40
	3200	10' 6"	25	1"	13.7	21H25-R25/159-3200-40

Coupling	Length		Diameter		Thread	Weight approx kg	ANMA P/N
	mm	inch	mm	inch			
Coupling sleeves 	155	6 1/8	44	1 3/4	R32	1.0	31-R32-44-155-23
	150	5 7/8	35	1 3/8	R25	0.7	31-R25-35-150-23
	160	6 5/16	38	1 1/2	R25	1.3	31-R25-38-160-23
Coupling sleeves of different diameter 	150	5 7/8	45	1 3/4	R25-R32	1.1	33-R25/R32-45-150-23
	160	6 5/16	45	1 3/4	R25-R32	1.2	33-R25/R32-45-160-23
	160	6 5/16	56	1 13/64	R25-R38	2.5	33-R25/R38-56-160-23
	170	6 3/4	56	1 13/64	R25-T38	3.2	33-R25/T38-56-170-23



Drifting and tunneling

R28

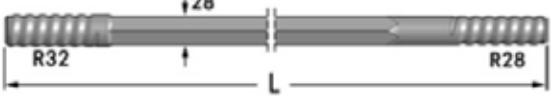
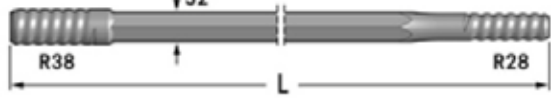
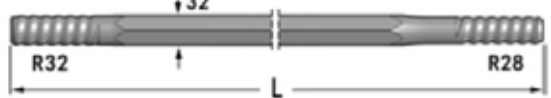
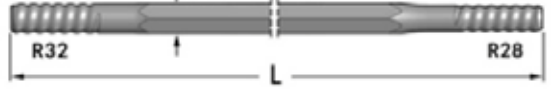
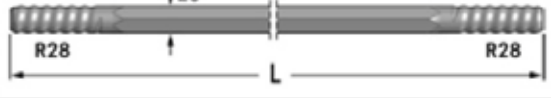
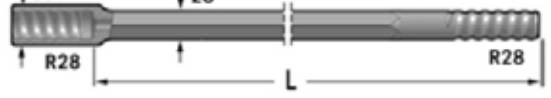


DRILL BIT		Diameter		No Xbutton diameter			Flushing hole		Weight approx kg	ANMA P/N
		mm	inch	Front	Gauge	Angle	Front	Side		
Button bit 	Spherical buttons									
	37	1 29/64	2×7	5×9	30°	1	1	0.5	1431-37R28-27/59-45-41	
	38	1 1/2	2×8	4×9	30°	1	2	0.6	1431-38R28-28/49-45-41	
	38	1 1/2	2×7	5×9	30°	1	1	0.6	1431-38R28-27/59-45-41	
	41	1 5/8	2×8	5×9	35°	1	1	0.7	1431-41R28-28/59-45-41	
	43	1 11/16	2×9	5×9	35°	1	2	0.8	1431-43R28-29/59-45-41	
	45	1 3/4	2×9	5×10	30°	1	2	0.9	1431-45R28-29/510-45-41	
	45	1 3/4	3×8	6×9	35°	1	3	0.9	1431-45R28-38/69-45-41	
 	PARABOLIC BUTTONS									
	37	1 29/64	2×7	5×9	30°	1	1	0.5	1431-37R28-27/59-45-51	
	38	1 1/2	2×8	4×9	30°	1	2	0.6	1431-38R28-28/49-45-51	
	38	1 1/2	2×7	5×9	30°	1	1	0.6	1431-38R28-27/59-45-51	
	41	1 5/8	2×8	5×9	35°	1	1	0.7	1431-41R28-28/59-45-51	
	43	1 11/16	2×9	5×9	35°	1	2	0.8	1431-43R28-29/59-45-51	
	45	1 3/4	2×9	5×10	30°	1	2	0.9	1431-45R28-29/510-45-51	
	45	1 3/4	3×8	6×9	35°	1	3	0.9	1431-45R28-38/69-45-51	
	48	1 7/8	2×9	5×11	30°	1	2	1.0	1431-48R28-29/511-45-51	
	48	1 7/8	3×8	6×9	35°	1	3	1.0	1431-48R28-38/69-45-51	
Reaming bit 6° 	64	2 1/2	2×10	8×9	35°	-	-	0.8	1441-646-210/89-45-41	
	64	2 1/2	4×8	8×9	25°	-	-	0.8	1441-646-48/89-45-41	
	76	3	2×11	8×11	35°	-	-	1.2	1441-766-211/811-45-41	
	76	3	4×10	8×10	30°	-	-	1.2	1441-766-410/810-45-41	
	89	3 1/2	4×11	8×11	35°	-	-	1.7	1441-896-411/811-45-41	
	89	3 1/2	4×10	8×10	30°	-	-	1.7	1441-896-410/810-45-41	
Pilot adapter 6° 	26	1 1/32	12×8		-	-	-	1.5	1442-26R28-12/8-42-22	
Cross-type bit 	38	1 1/2	14×8		-	1	2	0.6	1221-38R28-14/8-42-23	
	41	1 5/8	14×8		-	1	4	0.7	1221-41R28-14/8-42-23	
	43	1 11/16	14×8		-	1	4	0.7	1221-43R28-14/8-42-23	
	45	1 3/4	14×8		-	1	4	0.9	1221-45R28-14/8-42-23	
	51	2	14×8		-	1	4	1.1	1221-51R28-14/8-42-23	



Drifting and tunneling

R28

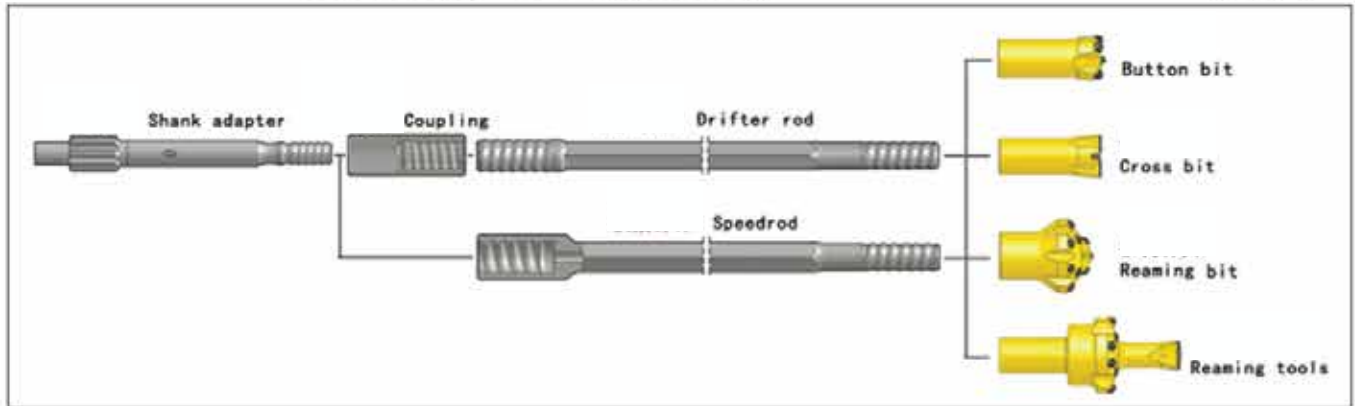
Drill rod	Length		Diameter		Weight approx kg	ANMA P/N
	mm	Foot	mm	inch		
Drifter rod, R32-Hex28-R28 Flushing hole 8.8mm. 	2400	7' 10"	28	1 1/8	12.2	22H28-R28/R32-2400-23
	2750	9'	28	1 1/8	14.4	22H28-R28/R32-2750-23
	3700	12' 11/2"	28	1 1/8	18.9	22H28-R28/R32-3700-23
	4000	13' 13/8"	28	1 1/8	20.4	22H28-R28/R32-4000-23
	4310	14' 11/2"	28	1 1/8	22.0	22H28-R28/R32-4310-23
	4920	16' 11/2"	28	1 1/8	25.3	22H28-R28/R32-4920-23
Drifter rod, R38-Hex32-R28 Flushing hole 9.6mm. 	2900	9' 6 1/8"	32	1 1/4	18.8	22H32-R28/R38-2900-23
	3090	10' 11/2"	32	1 1/4	20.0	22H32-R28/R38-3090-23
	3700	12' 11/2"	32	1 1/4	24.0	22H32-R28/R38-3700-23
	4310	14' 11/2"	32	1 1/4	27.9	22H32-R28/R38-4310-23
Drifter rod, R32-Hex32-R28 Flushing hole 9.6mm. 	3090	10' 11/2"	32	1 1/4	20.0	22H32-R28/R32-3090-23
	3700	12' 11/2"	32	1 1/4	23.5	22H32-R28/R32-3700-23
Drifter rod, R32-Hex32-R28 Flushing hole 9.6mm. With slimmed shank end for female shank 	3090	10' 11/2"	32	1 1/4	20.0	22H32-R28/R32N-3090-23
	3700	12' 11/2"	32	1 1/4	24.0	22H32-R28/R32N-3700-23
	4000	13' 13/8"	32	1 1/4	25.9	22H32-R28/R32N-4000-23
	4310	14' 11/2"	32	1 1/4	27.9	22H32-R28/R32N-4310-23
Extension rod, R28-Hex28-R28 Flushing hole 8.8mm. 	3050	10'	28	1 1/8	15.0	23H28-R28-3050-23
Speedrod, R28-Hex28-R28 Flushing hole 8.8mm. 	3050	10'	28	1 1/8	15.0	24H28-R28/39-3050-23

Coupling	Length		Diameter		Thread	Weight approx kg	SANSHAN P/N
	mm	inch	mm	inch			
Coupling sleeves 	150	5 7/8	44	1 3/4	R32	1.0	31-R32-44-150-23
	150	5 7/8	40	1 37/64	R28	0.9	31-R28-40-150-23
	170	6 3/4	55	2 5/32	R38	2.0	31-R38-55-170-23
Coupling sleeves of different diameter	160	6 5/16	45	1 3/4	R28-R32	1.2	33-R28/R32-45-160-23
	160	6 5/16	56	1 13/64	R28-R38	2.5	33-R28/R38-56-160-23



Drifting and tunneling

R32

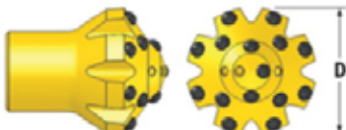
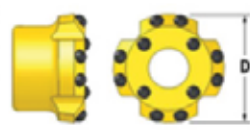
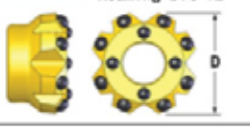
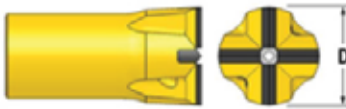


Drill bit	Diameter		No X button diameter			Flushing hole		Weight approx kg	ANMA P/N
	mm	Inch	Front	Gauge	Angle	Front	Side		
Button bit   	Spherical buttons								
	41	1 5/8	2×9	4×9	35°	1	1	0.6	1431-41R32-29/49-45-41
	41	1 5/8	2×8	5×9	35°	1	1	0.7	1431-41R32-28/59-45-41
	43	1 11/16	2×9	5×9	35°	1	2	0.7	1431-43R32-29/59-45-41
	43	1 11/16	2×9	5×10	35°	1	1	0.7	1431-43R32-29/510-45-41
	43	1 11/16	2×9	6×9	40°	2	-	0.7	1431-43R32-29/69-45-41
	45	1 3/4	2×9	5×11	30°	1	1	0.8	1431-45R32-29/511-45-41
	45	1 3/4	2×9	6×10	35°	2	-	0.8	1431-45R32-29/610-45-41
	45	1 3/4	3×8	6×10	30°	3	-	0.8	1431-45R32-38/610-45-41
	48	1 7/8	2×9	5×11	35°	1	1	0.9	1431-48R32-29/511-45-41
	48	1 7/8	2×9	6×10	40°	2	-	0.9	1431-48R32-29/610-45-41
	48	1 7/8	3×8	6×10	40°	3	-	0.9	1431-48R32-38/610-45-41
	48	1 7/8	3×9	6×10	30°	3	-	0.9	1431-48R32-39/610-45-41
	51	2	2×10	5×11	35°	1	1	1.0	1431-51R32-210/511-45-41
	51	2	2×10	6×10	40°	2	-	1.0	1431-51R32-210/610-45-41
	51	2	3×9	6×10	35°	3	-	1.0	1431-51R32-39/610-45-41
	57	2 1/4	3×9	6×11	35°	3	-	1.3	1431-57R32-39/611-45-41
	64	2 1/2	3×10, 1×10	6×11	35°	3	-	1.6	1433-64R32-410/611-45-41
	64	2 1/2	4×10	8×10	40°	2	-	1.6	1431-64R32-410/810-45-41
	76	3	4×11	8×11	40°	2	-	2.6	1431-76R32-411/811-45-41
 	Parabolic buttons								
	41	1 5/8	2×8	5×9	40°	1	1	0.7	1431-41R32-28/59-45-51
	43	1 11/16	2×9	5×9	40°	1	2	0.7	1431-43R32-29/59-45-51
	43	1 11/16	2×9	6×9	40°	2	-	0.7	1431-43R32-29/69-45-51
	43	1 11/16	3×8	6×8	40°	3	1	0.7	1431-43R32-38/68-45-51
	45	1 3/4	2×9	5×11	30°	1	2	0.8	1431-45R32-29/511-45-51
	45	1 3/4	2×9	6×9	40°	2	2	0.8	1431-45R32-29/69-45-51
	45	1 3/4	3×8	6×9	40°	3	1	0.8	1431-45R32-38/69-45-51
	48	1 7/8	2×9	5×11	35°	1	1	0.9	1431-48R32-29/511-45-51
	48	1 7/8	2×9	6×10	40°	2	-	0.9	1431-48R32-29/610-45-51
	48	1 7/8	3×8	6×10	40°	3	-	0.9	1431-48R32-38/610-45-51
	51	2	2×10	6×10	40°	2	-	1.0	1431-51R32-210/610-45-51
	51	2	3×9	6×10	40°	3	1	1.0	1431-51R32-39/610-45-51
	54	2 1/8	3×9	6×10	40°	3	1	1.0	1431-54R32-39/610-45-51
	57	2 1/4	3×9	6×11	35°	3	-	1.3	1431-57R32-39/611-45-51
	64	2 1/2	4×10	8×10	40°	2	-	1.6	1431-64R32-410/810-45-51



Drifting and tunneling

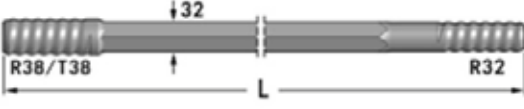
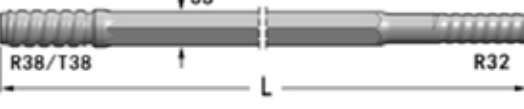
R32

Drill bit	Diameter		No x button diameter			Flushing hole		Weight approx kg	ANMA P/N
	mm	inch	Front	Gauge	Angle	Front	Side		
Retrac button bit 	Spherical buttons								
	45	1 3/4	3×8	6×9	40°	3	–	1.1	1531-45R32-38/69-45-41
	48	1 7/8	3×9	6×10	30°	3	–	1.2	1531-48R32-39/610-45-41
	51	2	3×9	6×10	30°	3	–	1.4	1531-51R32-39/610-45-41
	64	2 1/2	3×10, 1×10	6×11	35°	3	–	2.2	1533-64R32-410/611-45-41
	64	2 1/2	4×10	8×10	40°	2	–	2.2	1531-64R32-410/810-45-41
	76	3	4×11, 1×11	8×11	35°	4	1	3.5	1533-76R32-511/811-45-41
	Parabolic buttons								
	45	1 3/4	3×8	6×9	40°	3	–	1.1	1531-45R32-38/69-45-51
	48	1 7/8	3×9	6×10	30°	3	–	1.2	1531-48R32-39/610-45-51
	51	2	3×9	6×10	30°	3	–	1.4	1531-51R32-39/610-45-51
	64	2 1/2	3×10, 1×10	6×11	35°	3	–	2.2	1533-64R32-410/611-45-51
	64	2 1/2	4×10	8×10	40°	2	–	2.2	1531-64R32-410/810-45-51
	76	3	4×11, 1×11	8×11	35°	4	1	3.5	1533-76R32-511/811-45-51
Dome bit for reaming 	Spherical buttons								
	76	3	1×13	9×13	35°	3	1	2.0	1441-76R32-113/913-45-41
	89	3 1/2	1×13	14×13	35°	2	2	2.6	1441-89R32-113/1413-45-41
	102	4	1×13	16×13	35°	2	2	3.2	1441-102R32-113/1613-45-41
	127	5	1×13	18×13	35°	3	1	4.8	1441-127R32-113/1813-45-41
	Parabolic buttons								
	76	3	1×13	9×13	35°	3	1	2.0	1441-76R32-113/913-45-51
	89	3 1/2	1×13	14×13	35°	2	2	2.6	1441-89R32-113/1413-45-51
	102	4	1×13	16×13	35°	2	2	3.2	1441-102R32-113/1613-45-51
	127	5	1×13	18×13	35°	3	1	4.8	1441-127R32-113/1813-45-51
Reaming bit 6" 	64	2 1/2	2×10	8×9	35°	–	–	0.8	1441-646-210/89-45-41
	64	2 1/2	4×8	8×9	25°	–	–	0.8	1441-646-48/89-45-41
	76	3	2×11	8×11	35°	–	–	1.2	1441-766-211/811-45-41
	76	3	4×10	8×10	30°	–	–	1.2	1441-766-410/810-45-41
	89	3 1/2	4×11	8×11	35°	–	–	1.7	1441-896-411/811-45-41
	89	3 1/2	4×10	8×10	30°	–	–	1.7	1441-896-410/810-45-41
Pilot adapter 6" 	26	1 1/32	12×8		–	–	–	1.5	1442-26R32-12/8-42-22
Reaming bit 12" 	89	3 1/2	4×10	8×12	35°	–	–	1.8	1441-8912-410/812-45-41
	102	4	4×12	8×12	35°	–	–	2.1	1441-10212-412/812-45-41
	127	5	4×12	8×12	35°	–	–	4.0	1441-12712-412/812-45-41
	127	5	4×13	8×13	35°	–	–	4.0	1441-12712-413/813-45-41
Pilot adapter 12" 	40	1 37/64	15×10		–	–	–	2.2	1442-40R32-15/10-42-22
Cross-type bit 	41	1 5/8	16×10		–	1	4	0.7	1221-41R32-16/10-42-23
	43	1 11/16	16×10		–	1	2	0.8	1221-43R32-16/10-42-23
	45	1 3/4	16×10		–	1	4	0.9	1221-45R32-16/10-42-23
	48	1 7/8	16×10		–	1	4	0.9	1221-48R32-16/10-42-23
	51	2	16×10		–	1	4	1.2	1221-51R32-16/10-42-23
	57	2 1/4	16×10		–	1	4	1.3	1221-57R32-16/10-42-23
	64	2 1/2	18×13		–	1	4	1.5	1221-64R32-18/13-42-23



Drifting and tunneling

R32

Drill rod	Length		Diameter		Weight approx kg	ANMA P/N
	mm	Foot	mm	inch		
Drifter rod, R/T38-Hex32-R32 Flushing hole 9.6mm. 	2400	7' 10"	32	1 1/4	15.3	22H32-R32/T38-2400-23
	3090	10' 11/2"	32	1 1/4	19.8	22H32-R32/T38-3090-23
	3400	11' 13/4"	32	1 1/4	21.7	22H32-R32/T38-3400-23
	4000	13' 13/8"	32	1 1/4	25.5	22H32-R32/T38-4000-23
	4310	14' 11/2"	32	1 1/4	27.5	22H32-R32/T38-4310-23
	4920	16' 11/2"	32	1 1/4	31.3	22H32-R32/T38-4920-23
	5530	18' 11/2"	32	1 1/4	35.2	22H32-R32/T38-5530-23
Drifter rod, R/T38-Hex35-R32 Flushing hole 9.5mm. 	3090	10' 11/2"	35	1 3/8	24.0	22H35-R32/T38-3090-23
	3700	12' 11/2"	35	1 3/8	28.7	22H35-R32/T38-3700-23
	4000	13' 13/8"	35	1 3/8	31.1	22H35-R32/T38-4000-23
	4310	14' 11/2"	35	1 3/8	33.4	22H35-R32/T38-4310-23
	4920	16' 11/2"	35	1 3/8	37.8	22H35-R32/T38-4920-23
	5530	18' 11/2"	35	1 3/8	42.9	22H35-R32/T38-5530-23
	6100	20'	35	1 3/8	47.3	22H35-R32/T38-6100-23
Speedrod, T38-Hex35-R32 Flushing hole 9.5mm. 	3700	12' 11/2"	35	1 3/8	29.0	24H35-R32/T38-3700-23
	4310	14' 11/2"	35	1 3/8	34.1	24H35-R32/T38-4310-23
	4920	16' 11/2"	35	1 3/8	38.8	24H35-R32/T38-4920-23
	5530	18' 11/2"	35	1 3/8	43.6	24H35-R32/T38-5530-23
	6400	21'	35	1 3/8	50.3	24H35-R32/T38-6400-23

Coupling	Length		Diameter		Thread	Weight approx kg	ANMA P/N
	mm	inch	mm	inch			
Coupling sleeves	170	6 3/4	55	2 5/32	R38	1.8	31-R38-55-170-23
	190	7 1/2	55	2 5/32	T38	2.0	31-T38-55-190-23
Coupling sleeves of different diameter 	150	6 1/8	45	1 3/4	R25-R32	1.1	33-R25/R32-45-150-23
	160	6 1/4	45	1 3/4	R25-R32	1.2	33-R25/R32-45-160-23
	160	6 1/4	45	1 3/4	R28-R32	1.2	33-R28/R32-45-160-23
	160	6 1/4	55	2 5/32	R32-R38	1.8	33-R32/R38-55-160-23
	170	6 3/4	55	2 5/32	R32-R38	2.0	33-R32/R38-55-170-23
	180	7 1/16	55	2 5/32	R32-R38	2.2	33-R32/R38-55-180-23
	210	8 1/4	55	2 5/32	R32-R38	2.8	33-R32/R38-55-210-23
	170	6 3/4	56	2 1/8	R32-T38	2.1	33-R32/T38-56-170-23
	180	7 1/16	56	2 1/8	R32-T38	2.2	33-R32/T38-56-180-23
	210	8 1/4	56	2 1/8	R32-T38	2.8	33-R32/T38-56-210-23
	190	7 1/2	63	2 33/64	R32-T45	3.2	33-R32/T45-63-190-23



Bench and production drilling

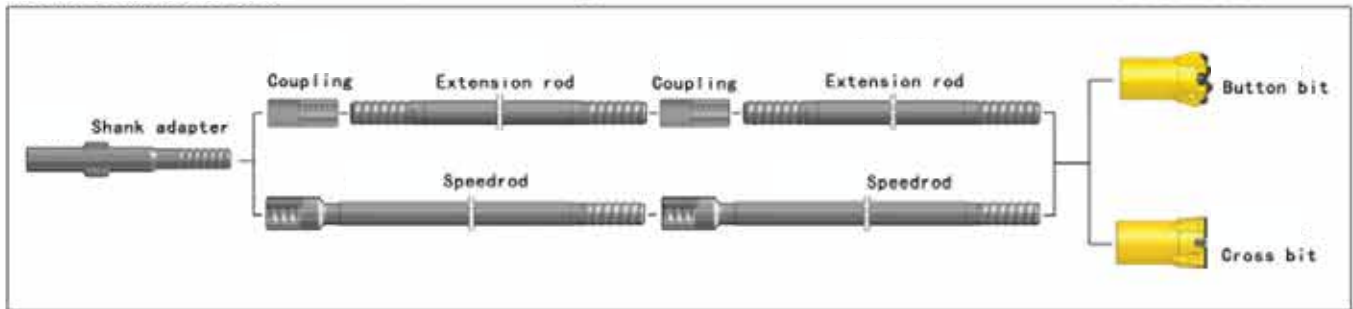
For more information visit

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R3212	09
R32	11
HL38	14
T38	16
T45	20
T51	23
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ST58	28
ST68	30



Bench drilling

R3212

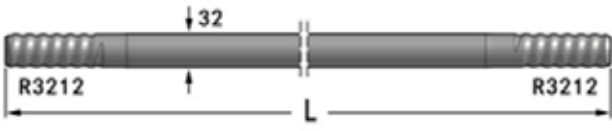


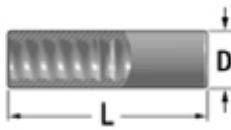
Drill bit	Diameter		No x button diameter			Flushing hole		Weight approx kg	ANMA P/N
	mm	inch	Front	Gauge	Angle	Front	Side		
Button bit 	48	1 7/8	2×9	3×11	35°	1	1	0.7	1431-48R3212-29/311-45-62
	48	1 7/8	2×9	5×11	35°	1	1	0.7	1431-48R3212-29/511-45-62
	55	2 1/8	1×12	3×14	35°	1	1	0.9	1431-55R3212-112/314-45-62
	55	2 1/8	2×10, 1×10	4×12	35°	1	1	0.8	1434-55R3212-310/412-45-62
	55	2 1/8	2×10, 1×10	4×10	35°	1	1	0.8	1434-55R3212-310/410-45-62
	55	2 1/8	3×9	6×10	35°	3	-	0.9	1431-55R3212-39/610-45-62
	60	2 3/8	2×12	3×14	40°	1	1	1.0	1431-60R3212-212/314-45-62
	60	2 3/8	2×11	5×12	40°	1	1	1.0	1431-60R3212-211/512-45-62
	60	2 3/8	2×10, 1×10	4×12	40°	2	1	0.9	1434-60R3212-310/412-45-62
	60	2 3/8	3×10	6×11	40°	3	-	1.1	1431-60R3212-310/611-45-62
	65	2 1/2	2×13	3×14	40°	1	1	1.1	1431-65R3212-213/314-45-62
	65	2 1/2	3×12	3×14	40°	1	1	1.1	1431-65R3212-312/314-45-62
	65	2 1/2	2×12, 1×12	4×12	40°	1	1	1.2	1434-65R3212-312/412-45-62
	65	2 1/2	2×12, 1×10	4×14	35°	1	1	1.5	1434-65R3212-312/414-45-62
	65	2 1/2	3×12	6×12	35°	1	1	1.2	1431-65R3212-312/612-45-62
	65	2 1/2	3×12	6×12	35°	3	-	1.2	1431-65R3212-312/612-45-62
	70	2 3/4	3×12	3×14	35°	1	1	1.6	1431-70R3212-312/314-45-62
	70	2 3/4	3×12	6×12	35°	1	1	1.4	1431-70R3212-312/612-45-62
	70	2 3/4	3×12	6×12	35°	3	-	1.4	1431-70R3212-312/612-45-62
	75	3	5×10	6×12	35°	2	1	1.7	1431-75R3212-510/612-45-62
Cross-type bits 	55	2 1/8	16×10	-	-	1	2	0.8	1221-55R3212-16/10-42-23
	60	2 3/8	16×10	-	-	1	2	0.9	1221-60R3212-16/10-42-23
	65	2 1/2	16×10	-	-	1	2	1.0	1221-65R3212-16/10-42-23
	70	2 3/4	16×10	-	-	1	2	1.1	1221-70R3212-16/10-42-23
	75	3	18×13	-	-	1	2	1.3	1221-75R3212-18/13-42-23
	80	3 1/8	18×13	-	-	1	2	1.6	1221-80R3212-18/13-42-23



Bench drilling

R3212

Drill rod	Length		Diameter		Weight approx kg	ANMA P/N
	mm	Foot	mm	inch		
Extension rod R3212-Round32-R3212 Flushing hole 9.2mm. 	600	2'	32	1 1/4	3.53	23R32-R3212-0600-40
	800	2'7"	32	1 1/4	4.70	23R32-R3212-0800-40
	900	2'	32	1 1/4	5.30	23R32-R3212-0900-40
	1000	3'3"	32	1 1/4	5.90	23R32-R3212-1000-40
	1100	3'6"	32	1 1/4	6.52	23R32-R3212-1100-40
	1200	3'9"	32	1 1/4	7.10	23R32-R3212-1200-40
MF-rod R3212-Round32-R3212 Flushing hole 9.2mm. 	600	2'	32	1 1/4	4.45	24R32-R3212/46-0600-40
	800	2'7"	32	1 1/4	5.60	24R32-R3212/46-0800-40
	900	2'	32	1 1/4	6.17	24R32-R3212/46-0900-40
	1000	3'3"	32	1 1/4	6.80	24R32-R3212/46-1000-40
	1100	3'6"	32	1 1/4	7.40	24R32-R3212/46-1100-40
	1200	3'9"	32	1 1/4	7.90	24R32-R3212/46-1200-40

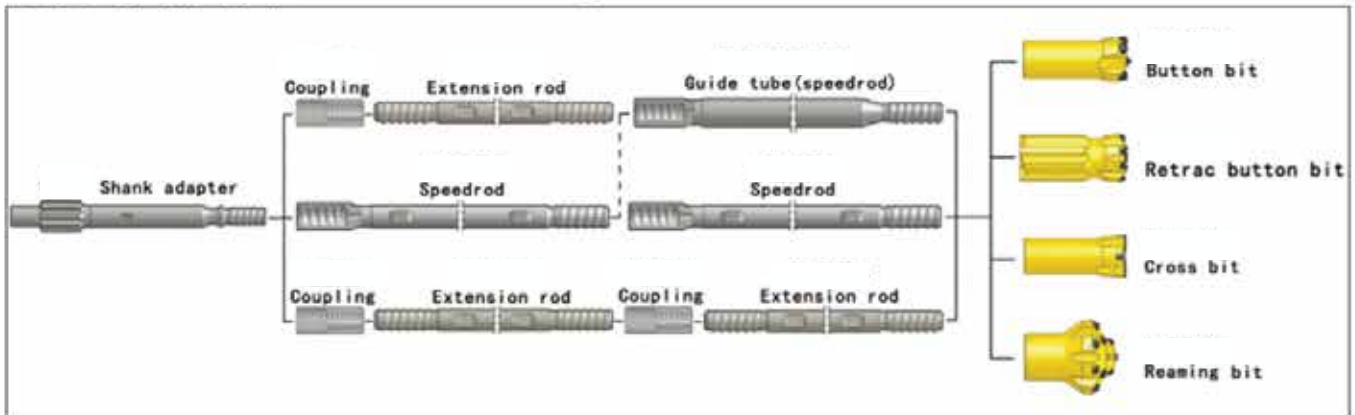
Coupling	Length		Diameter		Thread	Weight approx kg	ANMA P/N
	mm	inch	mm	inch			
Coupling sleeves 	150	6 1/8	44	1 3/4	R3212	1.0	31-R3212-44-150-42
	160	6 1/4	44	1 3/4	R3212	1.1	31-R3212-44-160-42
	160	6 1/4	48	1 7/8	R3212	1.5	31-R3212-48-160-42

Shank adaptors	Length		Diameter		Thread	Weight approx kg	ANMA P/N
	mm	inch	mm	inch			
For 90 drills 	330	1 1/12	56	2 1/4	R3212	2.3	4NJ90-38R3212-10330-42



Bench drilling

R32

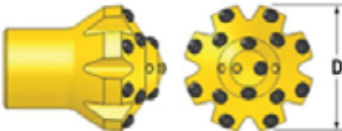


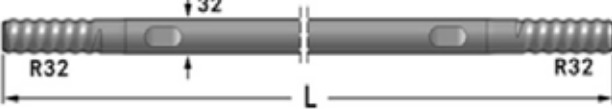
Drill bit	Diameter		No X button diameter			Flushing hole		Weight approx kg	ANMA P/N
	mm	inch	Front	Gauge	Angle	Front	Side		
Button bit 	Spherical buttons								
	48	1 7/8	2×9	5×11	35°	1	2	1.0	1431-48R32-29/511-45-31
	48	1 7/8	3×8	6×10	40°	3	-	0.9	1431-48R32-38/610-45-31
	51	2	2×10	5×11	35°	1	2	1.0	1431-51R32-210/511-45-31
	51	2	3×9	6×10	35°	3	-	1.0	1431-51R32-39/610-45-31
	57	2 1/4	3×9	6×11	35°	3	-	1.3	1431-57R32-39/611-45-31
	57	2 1/4	3×10	6×11	35°	3	-	1.3	1431-57R32-310/611-45-31
	64	2 1/2	3×11	6×12	30°	3	-	1.6	1431-64R32-311/612-45-31
	64	2 1/2	3×10, 1×10	6×11	35°	3	-	1.6	1433-64R32-410/611-45-31
	64	2 1/2	4×10	8×10	40°	2	-	1.6	1431-64R32-410/810-45-31
	70	3	4×11	8×11	40°	2	-	2.6	1431-70R32-411/811-45-31
	76	3	4×11, 1×11	8×11	35°	2	-	2.6	1433-76R32-511/811-45-31
	Parabolic buttons								
	48	1 7/8	3×8	6×10	40°	3	-	0.9	1431-48R32-38/610-45-51
	51	2	3×9	6×10	40°	3	1	1.0	1431-51R32-39/610-45-51
	54	2 1/8	3×9	6×10	40°	3	1	1.0	1431-54R32-39/610-45-51
	57	2 1/4	3×9	6×11	35°	3	-	1.3	1431-57R32-39/611-45-51
	57	2 1/4	3×10	6×11	35°	3	-	1.3	1431-57R32-310/611-45-51
	64	2 1/2	4×10	8×10	40°	2	-	1.6	1431-64R32-410/810-45-51
	Retrac button bit 	Spherical buttons							
48		1 7/8	3×8	6×10	40°	3	-	1.2	1531-48R32-38/610-45-31
51		2	3×9	6×10	35°	3	-	1.4	1531-51R32-39/610-45-31
64		2 1/2	3×10, 1×10	6×11	35°	3	-	2.2	1533-64R32-410/611-45-31
64		2 1/2	4×10	8×10	40°	2	-	2.2	1531-64R32-410/810-45-31
76		3	4×11, 1×11	8×11	35°	4	1	3.5	1533-76R32-511/811-45-31
Parabolic buttons									
48		1 7/8	3×9	6×10	30°	3	-	1.2	1531-48R32-39/610-45-51
51		2	3×9	6×10	30°	3	-	1.4	1531-51R32-39/610-45-51
64		2 1/2	3×10, 1×10	6×11	35°	3	-	2.2	1533-64R32-410/611-45-51
64		2 1/2	4×10	8×10	40°	2	-	2.2	1531-64R32-410/810-45-51
76		3	4×11, 1×11	8×11	35°	4	1	3.5	1533-76R32-511/811-45-51



Bench drilling

R32

Drill bit	Diameter		No X button diameter			Flushing hole		Weight approx kg	ANMA P/N
	mm	inch	Front	Gauge	Angle	Front	Side		
Dome bit for reaming 	Spherical buttons								
	76	3	1×13	9×13	35°	3	1	2.0	1441-76R32-113/913-45-31
	89	3 1/2	1×13	14×13	35°	2	2	2.6	1441-89R32-113/1413-45-31
	102	4	1×13	16×13	35°	2	2	3.2	1441-102R32-113/1613-45-31
	127	5	1×13	18×13	35°	3	1	4.8	1441-127R32-113/1813-45-31
	Parabolic buttons								
	76	3	1×13	9×13	35°	3	1	2.0	1441-76R32-113/913-45-51
	89	3 1/2	1×13	14×13	35°	2	2	2.6	1441-89R32-113/1413-45-51
	102	4	1×13	16×13	35°	2	2	3.2	1441-102R32-113/1613-45-51
	127	5	1×13	18×13	35°	3	1	4.8	1441-127R32-113/1813-45-51
Cross-type bits 	45	1 3/4	16×10		—	1	4	0.9	1221-45R32-16/10-42-23
	48	1 7/8	16×10		—	1	4	0.9	1221-48R32-16/10-42-23
	51	2	16×10		—	1	4	1.2	1221-51R32-16/10-42-23
	57	2 1/4	16×10		—	1	4	1.3	1221-57R32-16/10-42-23
	64	2 1/2	18×13		—	1	4	1.5	1221-64R32-18/13-42-23

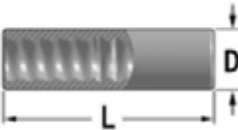
Drill rod	Length		Diameter		Weight approx kg	ANMA P/N
	mm	Foot	mm	inch		
Extension rod R32-Round32-R32 Flushing hole 9.2mm. Wrench flat 25.4mm. 	915	3'	32	1 1/4	5.4	23R32-R32-0915-23
	1000	3' 33/8"	32	1 1/4	5.9	23R32-R32-1000-23
	1220	4'	32	1 1/4	7.2	23R32-R32-1220-23
	1830	6'	32	1 1/4	10.8	23R32-R32-1830-23
	2435	8'	32	1 1/4	14.3	23R32-R32-2435-23
	3050	10'	32	1 1/4	17.9	23R32-R32-3050-23
	3660	12'	32	1 1/4	21.5	23R32-R32-3660-23
MF-rod R32-Round32-R32 Flushing hole 9.2mm. Wrench flat 25.4mm. 	915	3'	32	1 1/4	6.2	24R32-R32/46-0915-23
	1220	4'	32	1 1/4	8.0	24R32-R32/46-1220-23
	1525	5'	32	1 1/4	9.8	24R32-R32/46-1525-23
	1830	6'	32	1 1/4	11.6	24R32-R32/46-1830-23
	2435	8'	32	1 1/4	15.1	24R32-R32/46-2435-23
	3050	10'	32	1 1/4	18.7	24R32-R32/46-3050-23
	3660	12'	32	1 1/4	22.3	24R32-R32/46-3660-23
Guide speedrod R32-Round39-R32 Flushing hole 14.5mm. 	3050	10'	39	1 1/2	27.0	24R39-R32/46-3050-23
	3660	12'	39	1 1/2	32.0	24R39-R32/46-3660-23



Bench drilling

R32

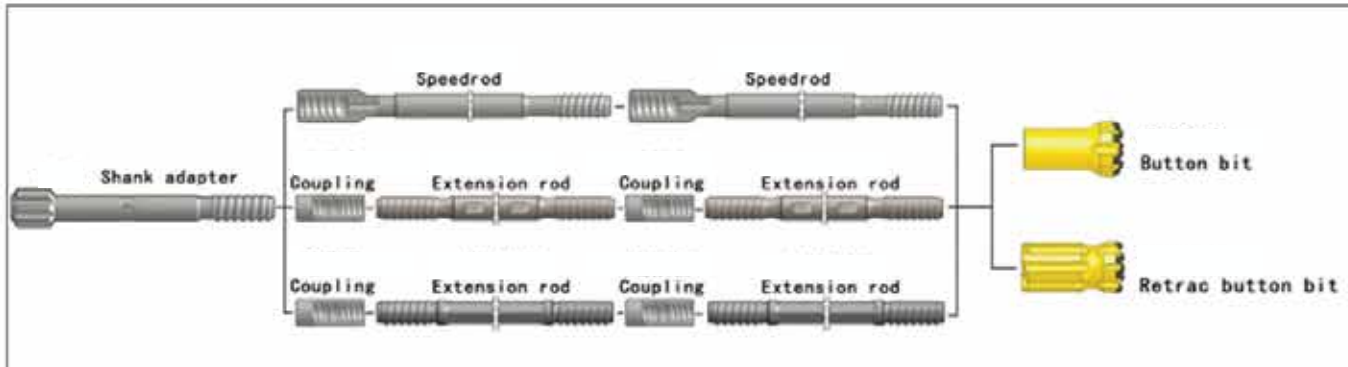
Guide tube	Length		Diameter		Weight approx kg	ANMA P/N
	mm	inch	mm	inch		
Guide tube D46 for bits from 51-64mm 	1220	4'	46	1 3/4	10.0	24R46-R32/46-1220-23
	1525	5'	46	1 3/4	12.5	24R46-R32/46-1525-23
	1830	6'	46	1 3/4	14.2	24R46-R32/46-1830-23
	3050	10'	46	1 3/4	25.0	24R46-R32/46-3050-23

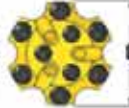
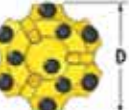
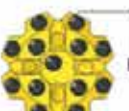
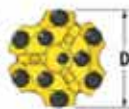
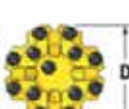
Coupling	Length		Diameter		Thread	Weight approx kg	ANMA P/N
	mm	inch	mm	inch			
Coupling sleeves 	150	6 1/8	44	1 3/4	R32	1.0	31-R32-44-150-23
	160	6 1/4	44	1 3/4	R32	1.1	31-R32-44-160-23



Bench drilling

HL38

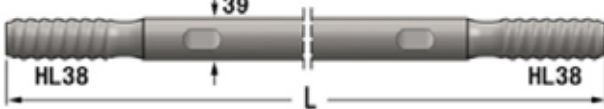


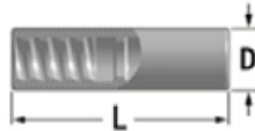
Drill bit	Diameter		No.Xbutton diameter			Flushing hole		Weight approx kg	ANMA P/N
	mm	inch	Front	Gauge	Angle	Front	Side		
Button bit        	Spherical buttons								
	64	2 1/2	3×11	6×12	35°	3	—	1.8	1431-64HL38-311/612-45-31
	70	2 3/4	4×11	8×11	40°	2	—	1.9	1431-70HL38-411/811-45-31
	70	2 3/4	4×10, 1×10	8×11	30°	4	—	1.9	1432-70HL38-510/811-45-31
	70	2 3/4	3×10, 1×10	6×12	35°	3	—	1.8	1433-70HL38-410/612-45-31
	76	3	4×11	8×11	40°	2	—	2.4	1431-76HL38-411/811-45-31
	76	3	3×11, 1×11	6×12	35°	3	1	2.6	1433-76HL38-411/612-45-31
	76	3	4×11, 1×11	8×12	35°	4	—	2.6	1432-76HL38-511/812-45-31
	89	3 1/2	5×12	8×12	35°	2	—	3.3	1431-89HL38-512/812-45-31
	89	3 1/2	4×13, 1×13	8×13	35°	4	—	3.3	1432-89HL38-513/813-45-31
	Parabolic buttons								
	64	2 1/2	3×11	6×12	35°	3	—	1.8	1431-64HL38-311/612-45-51
	70	2 3/4	4×11	8×11	40°	2	—	1.9	1431-70HL38-411/811-45-51
	70	2 3/4	4×10, 1×10	8×11	30°	4	—	1.9	1432-70HL38-510/811-45-51
	76	3	4×11	8×11	40°	2	—	2.4	1431-76HL38-411/811-45-51
	76	3	3×11, 1×11	6×13	35°	3	1	2.6	1433-76HL38-411/613-45-51
	76	3	4×11, 1×11	8×12	35°	4	—	2.6	1432-76HL38-511/812-45-51
	89	3 1/2	5×12	8×12	35°	2	—	3.3	1433-89HL38-512/812-45-51
89	3 1/2	4×13, 1×13	8×13	35°	4	—	3.3	1432-89HL38-513/813-45-51	
Retrac button bit      	Spherical buttons								
	64	2 1/2	3×10, 1×10	6×11	35°	3	—	2.2	1533-64HL38-410/611-45-31
	70	2 3/4	4×10, 1×10	8×11	35°	4	—	2.4	1532-70HL38-510/811-45-31
	76	3	4×11, 1×11	8×11	40°	4	—	3.3	1532-76HL38-511/811-45-31
	76	3	4×11, 1×11	8×12	35°	4	—	3.3	1532-76HL38-511/812-45-31
	89	3 1/2	5×12	8×12	35°	2	—	4.8	1531-89HL38-512/812-45-31
	89	3 1/2	4×13, 1×13	8×13	35°	4	—	4.8	1532-89HL38-513/813-45-31
	Parabolic buttons								
	64	2 1/2	3×10, 1×10	6×11	35°	3	—	2.2	1533-64HL38-410/611-45-51
	70	2 3/4	4×10, 1×10	8×11	35°	4	—	2.4	1532-70HL38-510/811-45-51
	76	3	4×11, 1×11	8×11	40°	4	—	3.3	1532-76HL38-511/811-45-51
	76	3	4×11, 1×11	8×12	35°	4	—	3.3	1532-76HL38-511/812-45-51
	89	3 1/2	5×12	8×12	35°	2	—	4.8	1531-89HL38-512/812-45-51
	89	3 1/2	4×13, 1×13	8×13	35°	4	—	4.8	1532-89HL38-513/813-45-51



Bench drilling

HL38

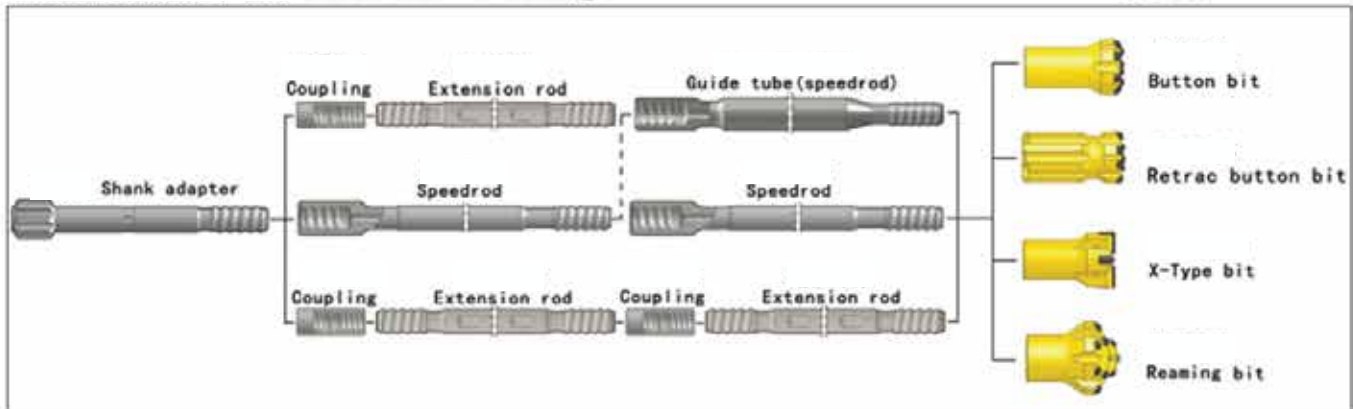
Drill rod	Length		Diameter		Weight approx kg	ANMA P/N
	mm	Foot	mm	inch		
Extension rod HL38-Round39-HL38 Flushing hole 14.5mm. Wrench flat 32mm. 	1220	4'	39	1 1/2	10.2	23R39-HL38-1220-23
	1525	5'	39	1 1/2	12.8	23R39-HL38-1525-23
	1830	6'	39	1 1/2	15.3	23R39-HL38-1830-23
	2435	8'	39	1 1/2	20.4	23R39-HL38-2435-23
	3050	10'	39	1 1/2	25.5	23R39-HL38-3050-23
	3660	12'	39	1 1/2	30.9	23R39-HL38-3660-23
	3965	13'	39	1 1/2	33.2	23R39-HL38-3965-23
	4270	14'	39	1 1/2	35.7	23R39-HL38-4270-23
	4880	16'	39	1 1/2	41.0	23R39-HL38-4880-23
	5530	18' 11/2"	39	1 1/2	46.3	23R39-HL38-5530-23
MF-rod HL38-Round39-HL38 Flushing hole 14.5mm. 	915	3'	39	1 1/2	10.7	24R39-HL38/57-0915-23
	1220	4'	39	1 1/2	13.3	24R39-HL38/57-1220-23
	1525	5'	39	1 1/2	15.8	24R39-HL38/57-1525-23
	1830	6'	39	1 1/2	18.3	24R39-HL38/57-1830-23
	3050	10'	39	1 1/2	28.5	24R39-HL38/57-3050-23
	3660	12'	39	1 1/2	33.6	24R39-HL38/57-3660-23
	4270	14'	39	1 1/2	38.7	24R39-HL38/57-4270-23
	4880	16'	39	1 1/2	43.7	24R39-HL38/57-4880-23
Hex. extension rod HL38-Hex32-HL38 Flushing hole 9.6mm. 	1220	4'	32	1 1/4	8.6	23H32-HL38-1220-23
	1830	6'	32	1 1/4	12.6	23H32-HL38-1830-23
	2435	8'	32	1 1/4	16.6	23H32-HL38-2435-23
	3050	10'	32	1 1/4	20.8	23H32-HL38-3050-23
	3660	12'	32	1 1/4	24.9	23H32-HL38-3660-23

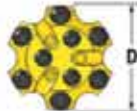
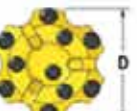
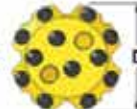
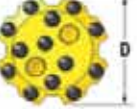
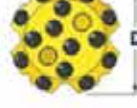
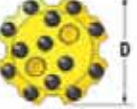
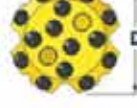
Coupling	Length		Diameter		Thread	Weight approx kg	ANMA P/N
	mm	inch	mm	inch			
Coupling sleeves 	170	6 3/4	55	2 5/32	HL38	1.9	31-HL38-55-170-23
	190	7 1/2	55	2 5/32	HL38	2.1	31-HL38-55-190-23



Bench drilling

T38



Drill bit	Diameter		No X button diameter			Flushing hole		Weight approx kg	ANMA P/N
	mm	inch	Front	Gauge	Angle	Front	Side		
Button bit      	Spherical buttons								
	64	2 1/2	3×11	6×12	35°	3	-	1.8	1431-64T38-311/612-45-31
	64	2 1/2	4×10	8×10	40°	2	-	1.6	1431-64T38-410/810-45-31
	64	2 1/2	3×10, 1×10	6×11	35°	3	-	1.7	1433-64T38-410/611-45-31
	70	2 3/4	4×11	8×11	40°	2	-	1.9	1431-70T38-411/811-45-31
	70	2 3/4	4×10, 1×10	8×11	30°	4	-	1.9	1432-70T38-510/811-45-31
	70	2 3/4	3×10, 1×10	6×12	35°	3	-	1.8	1433-70T38-410/612-45-31
	76	3	4×11	8×11	40°	2	-	2.4	1431-76T38-411/811-45-31
	76	3	5×11	8×13	35°	2	1	2.4	1431-76T38-511/813-45-31
	76	3	3×11, 1×11	6×12	35°	3	1	2.6	1433-76T38-411/612-45-31
	76	3	4×11, 1×11	8×12	35°	4	-	2.6	1432-76T38-511/812-45-31
	76	3	4×11, 1×11	8×11	40°	4	-	2.6	1432-76T38-511/811-45-31
	89	3 1/2	4×13	8×13	40°	2	-	3.3	1431-89T38-413/813-45-31
	89	3 1/2	5×13	8×13	35°	2	-	3.3	1431-89T38-513/813-45-31
	89	3 1/2	6×11	8×12	35°	2	-	3.3	1431-89T38-611/812-45-31
	89	3 1/2	3×11, 2×11	6×13	35°	3	1	3.3	1433-89T38-511/613-45-31
	89	3 1/2	4×11, 1×11	8×13	35°	4	-	3.3	1433-89T38-511/813-45-31
	89	3 1/2	4×13, 1×13	8×13	35°	4	-	3.3	1432-89T38-513/813-45-31
Parabolic buttons   	Parabolic buttons								
	64	2 1/2	3×11	6×12	35°	3	-	1.8	1431-64T38-311/612-45-51
	64	2 1/2	4×10	8×10	40°	2	-	1.6	1431-64T38-410/810-45-51
	64	2 1/2	3×10, 1×10	6×11	35°	3	-	1.7	1433-64T38-410/611-45-51
	70	2 3/4	4×11	8×11	40°	2	-	1.9	1431-70T38-411/811-45-51
	70	2 3/4	3×10, 1×10	6×12	35°	3	-	1.8	1433-70T38-410/612-45-51
	76	3	4×11	8×11	40°	2	-	2.4	1431-76T38-411/811-45-51
	76	3	5×11	8×13	35°	2	1	2.4	1431-76T38-511/813-45-51
	76	3	3×11, 1×11	6×13	35°	3	1	2.6	1433-76T38-411/613-45-51
	76	3	4×11, 1×11	8×12	35°	4	-	2.6	1432-76T38-511/812-45-51
	76	3	4×11, 1×11	8×11	40°	4	-	2.6	1432-76T38-511/811-45-51
	89	3 1/2	5×13	8×13	35°	2	-	3.3	1431-89T38-513/813-45-51
	89	3 1/2	6×11	8×12	35°	2	-	3.3	1431-89T38-611/812-45-51
	89	3 1/2	3×11, 2×11	6×13	35°	3	1	3.3	1433-89T38-511/613-45-51
	89	3 1/2	4×11, 1×11	8×13	35°	4	-	3.3	1433-89T38-511/813-45-51
	89	3 1/2	4×13, 1×13	8×13	35°	4	-	3.3	1432-89T38-513/813-45-51



Bench drilling

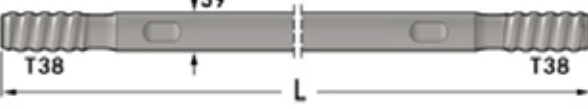
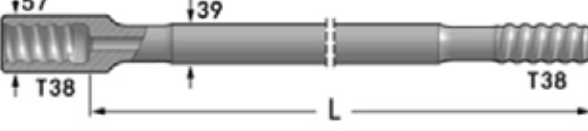
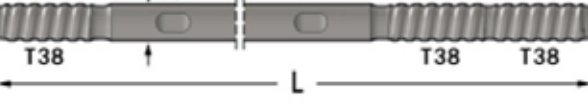
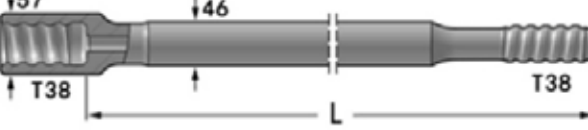
T38

Drill bit	Diameter		No X button diameter			Flushing hole		Weight approx kg	ANMA P/N
	mm	inch	Front	Gauge	Angle	Front	Side		
Retrac button bit     	Spherical buttons								
	64	2 1/2	4×10	8×10	30°	2	–	2.2	1531-64T38-410/810-45-31
	64	2 1/2	3×10, 1×10	6×11	35°	3	–	2.2	1533-64T38-410/611-45-31
	70	2 3/4	4×11	8×11	40°	2	–	2.4	1531-70T38-411/811-45-31
	70	2 3/4	3×10, 1×10	6×13	35°	3	–	2.4	1533-70T38-410/613-45-31
	70	2 3/4	4×10, 1×10	8×11	35°	4	–	2.4	1632-70T38-510/811-45-31
	76	3	4×11	8×11	40°	2	–	3.3	1531-76T38-411/811-45-31
	76	3	4×11, 1×11	8×11	35°	4	–	3.3	1632-76T38-511/811-45-31
	76	3	4×11, 1×11	8×12	35°	4	–	3.3	1632-76T38-511/812-45-31
	89	3 1/2	4×13	8×13	40°	2	–	4.8	1531-89T38-413/813-45-31
	89	3 1/2	5×13	8×13	35°	2	–	4.8	1531-89T38-513/813-45-31
	89	3 1/2	6×11	8×12	35°	2	–	4.8	1531-89T38-611/812-45-31
	89	3 1/2	4×11, 1×11	8×13	35°	4	–	4.8	1533-89T38-511/813-45-31
	89	3 1/2	4×13, 1×13	8×13	35°	4	–	4.8	1632-89T38-513/813-45-31
	Parabolic buttons								
	64	2 1/2	4×10	8×10	30°	2	–	2.2	1531-64T38-410/810-45-51
	64	2 1/2	3×10, 1×10	6×11	35°	3	–	2.2	1533-64T38-410/611-45-51
	70	2 3/4	4×11	8×11	40°	2	–	2.4	1531-70T38-411/811-45-51
70	2 3/4	3×10, 1×10	6×13	35°	3	–	2.4	1533-70T38-410/613-45-51	
70	2 3/4	4×10, 1×10	8×11	35°	4	–	2.4	1632-70T38-510/811-45-51	
76	3	4×11	8×11	40°	2	–	3.3	1531-76T38-411/811-45-51	
76	3	4×11, 1×11	8×11	35°	4	–	3.3	1632-76T38-511/811-45-51	
76	3	4×11, 1×11	8×12	35°	4	–	3.3	1632-76T38-511/812-45-51	
89	3 1/2	4×13	8×13	40°	2	–	4.8	1531-89T38-413/813-45-51	
89	3 1/2	5×13	8×13	35°	2	–	4.8	1531-89T38-513/813-45-51	
89	3 1/2	6×11	8×12	35°	2	–	4.8	1531-89T38-611/812-45-51	
89	3 1/2	4×11, 1×11	8×13	35°	4	–	4.8	1533-89T38-611/813-45-51	
89	3 1/2	4×13, 1×13	8×13	35°	4	–	4.8	1632-89T38-513/813-45-51	
X-type bit 	64	2 1/2	25×13		–	1	2	1.9	1321-64T38-25/13-42-23
	76	3	25×13		–	1	2	2.5	1321-76T38-25/13-42-23
	89	3 1/2	25×13		–	1	2	2.8	1321-89T38-25/13-42-23
Dome bit for reaming 	Spherical buttons								
	102	4	1×13	16×13	35°	2	2	3.8	1441-102T38-113/1613-45-31
	127	5	1×13	18×13	35°	1	3	5.2	1441-127T38-113/1813-45-31
	Parabolic buttons								
	102	4	1×13	16×13	35°	2	2	3.8	1441-102T38-113/1613-45-51
	127	5	1×13	18×13	35°	1	3	5.2	1441-127T38-113/1813-45-51



Bench drilling

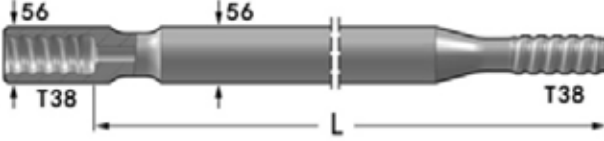
T38

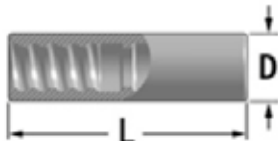
Drill rod	Length		Diameter		Weight approx kg	ANMA P/N
	mm	Foot	mm	inch		
Extension rod T38-Round39-T38 Flushing hole 14.5mm. Wrench flat 32mm. 	1220	4'	39	1 1/2	10.2	23R39-T38-1220-23
	1525	5'	39	1 1/2	12.8	23R39-T38-1525-23
	1830	6'	39	1 1/2	15.3	23R39-T38-1830-23
	2435	8'	39	1 1/2	20.4	23R39-T38-2435-23
	3050	10'	39	1 1/2	25.5	23R39-T38-3050-23
	3660	12'	39	1 1/2	30.9	23R39-T38-3660-23
	3965	13'	39	1 1/2	33.2	23R39-T38-3965-23
	4270	14'	39	1 1/2	35.7	23R39-T38-4270-23
	4880	16'	39	1 1/2	41.0	23R39-T38-4880-23
	5530	18' 11/2"	39	1 1/2	46.3	23R39-T38-5530-23
	6095	20'	39	1 1/2	50.9	23R39-T38-6095-23
MF-rod T38-Round39-T38 Flushing hole 14.5mm. 	915	3'	39	1 1/2	10.7	24R39-T38/57-0915-23
	1220	4'	39	1 1/2	13.3	24R39-T38/57-1220-23
	1525	5'	39	1 1/2	15.8	24R39-T38/57-1525-23
	1830	6'	39	1 1/2	18.3	24R39-T38/57-1830-23
	3050	10'	39	1 1/2	28.5	24R39-T38/57-3050-23
	3660	12'	39	1 1/2	33.6	24R39-T38/57-3660-23
	4270	14'	39	1 1/2	38.7	24R39-T38/57-4270-23
	4880	16'	39	1 1/2	43.7	24R39-T38/57-4880-23
	5530	18' 11/2"	39	1 1/2	49.2	24R39-T38/57-5530-23
	6095	20'	39	1 1/2	53.9	24R39-T38/57-6095-23
Hex. extension rod T38-Hex32-T38 Flushing hole 9.6mm. 	1220	4'	32	1 1/4	8.6	23H32-T38-1220-23
	1830	6'	32	1 1/4	12.6	23H32-T38-1830-23
	2435	8'	32	1 1/4	16.6	23H32-T38-2435-23
	3050	10'	32	1 1/4	20.8	23H32-T38-3050-23
	3660	12'	32	1 1/4	24.9	23H32-T38-3660-23
Double thread rod T38-Round39-T38 Flushing hole 14.5mm. Wrench flat 32mm. 	3050	10'	46	1 3/4	25.7	23R39-T38/2T38-3050-23
	3660	12'	46	1 3/4	30.9	23R39-T38/2T38-3660-23
Guide speedrod T38-Round46-T38 Flushing hole 17mm. 	1830	6'	46	1 3/4	23.5	24R46-T38/57-1830-23
	3050	10'	46	1 3/4	37.2	24R46-T38/57-3050-23
	3660	12'	46	1 3/4	44.0	24R46-T38/57-3660-23
	4270	14'	46	1 3/4	50.9	24R46-T38/57-4270-23
	4880	16'	46	1 3/4	57.7	24R46-T38/57-4880-23
	5530	18' 11/2"	46	1 3/4	65.0	24R46-T38/57-5530-23
	6095	20'	46	1 3/4	71.3	24R46-T38/57-6095-23



Bench drilling

T38

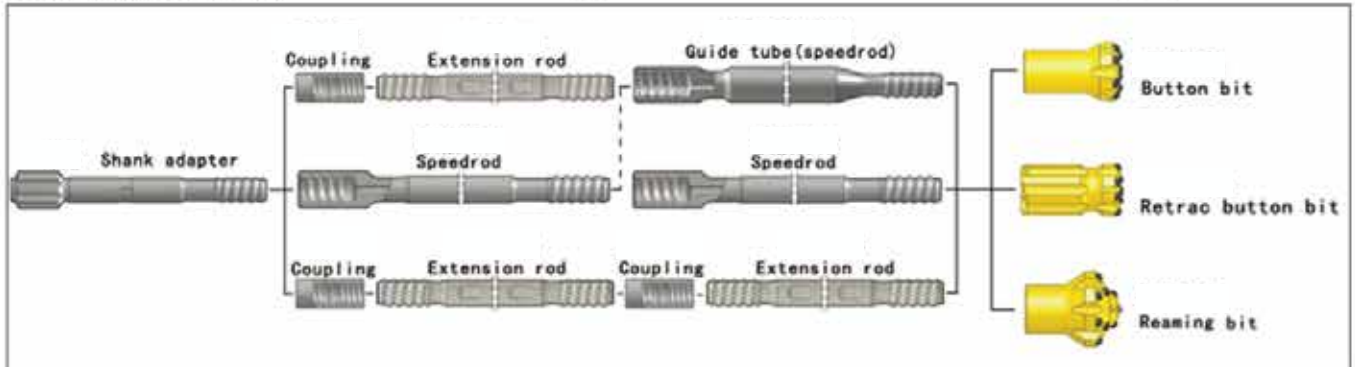
Guide tube	Length		Diameter		Weight approx kg	ANMA P/N
	mm	inch	mm	inch		
Guide tube D56 for bits from 64-76mm and D64 for bits from 76-89mm 	1220	4'	56	2 1/8	12.6	24G56-T38/56-1220-23
	1525	5'	56	2 1/8	14	24G56-T38/56-1525-23
	1830	6'	56	2 1/8	17.4	24G56-T38/56-1830-23
	3050	10'	56	2 1/8	28.3	24G56-T38/56-3050-23
	3660	12'	56	2 1/8	32.8	24G56-T38/56-3660-23
	4920	16' 2"	56	2 1/8	47.9	24G56-T38/56-4920-23
	3660	12'	64	2 1/2	51	24G64-T38/64-3660-23

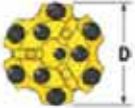
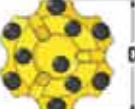
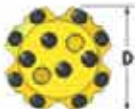
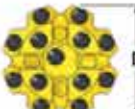
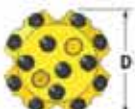
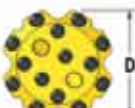
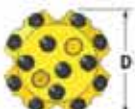
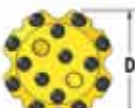
Coupling	Length		Diameter		Thread	Weight approx kg	ANMA P/N
	mm	inch	mm	inch			
Coupling sleeves 	190	7 1/2	55	2 5/32	T38	2.1	31-T38-55-190-23



Bench drilling

T45

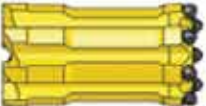
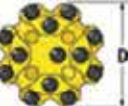
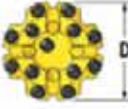
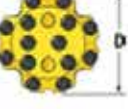
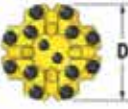


Drill bit	Diameter		No X button diameter			Flushing hole		Weight approx kg	ANMA P/N
	mm	inch	Front	Gauge	Angle	Front	Side		
Button bit      	Spherical buttons								
	70	2 3/4	4×11	8×11	40°	2	—	2.3	1431-70T45-411/811-45-31
	70	2 3/4	3×11, 1×9	6×11	35°	3	—	2.2	1433-70T45-411/611-45-31
	70	2 3/4	4×10, 1×10	8×11	35°	4	—	2.2	1432-70T45-510/811-45-31
	76	3	4×11	8×11	40°	2	—	2.6	1431-76T45-411/811-45-31
	76	3	5×11	8×12	35°	2	1	2.6	1431-76T45-511/812-45-31
	76	3	3×11, 1×11	6×13	35°	3	—	2.4	1433-76T45-411/613-45-31
	76	3	4×11, 1×11	8×12	35°	4	—	2.6	1432-76T45-511/812-45-31
	89	3 1/2	4×13	8×13	40°	2	—	4.6	1431-89T45-413/813-45-31
	89	3 1/2	6×11	8×12	35°	2	—	4.6	1431-89T45-611/812-45-31
	89	3 1/2	3×11, 2×11	6×13	35°	3	1	4.1	1433-89T45-511/613-45-31
	89	3 1/2	4×11, 1×11	8×12	35°	4	—	4.6	1433-89T45-511/812-45-31
	89	3 1/2	4×13, 1×13	8×13	35°	4	—	4.6	1432-89T45-513/813-45-31
	102	4	5×14	8×14	40°	2	—	5.0	1431-102T45-514/814-45-31
	102	4	6×13	8×16	40°	2	1	5.0	1431-102T45-613/816-45-31
	102	4	3×13, 2×13	6×14	35°	3	1	4.5	1433-102T45-513/614-45-31
	102	4	4×13, 1×13	8×14	35°	4	—	4.5	1433-102T45-513/814-45-31
	102	4	4×13, 2×13	8×13	35°	4	1	4.5	1433-102T45-613/813-45-31
Parabolic buttons  	Parabolic buttons								
	70	2 3/4	3×11, 1×9	6×11	35°	3	—	2.2	1433-70T45-411/611-45-51
	70	2 3/4	4×10, 1×10	8×11	35°	4	—	2.2	1432-70T45-510/811-45-51
	76	3	4×11	8×11	40°	2	—	2.6	1431-76T45-411/811-45-51
	76	3	5×11	8×12	35°	2	1	2.6	1431-76T45-511/812-45-51
	76	3	3×11, 1×11	6×13	35°	3	1	2.4	1433-76T45-411/613-45-51
	76	3	4×11, 1×11	8×11	35°	4	—	2.6	1432-76T45-511/811-45-51
	76	3	4×11, 1×11	8×12	35°	4	—	2.6	1432-76T45-511/812-45-51
	89	3 1/2	4×13	8×13	40°	2	—	4.6	1431-89T45-413/813-45-51
	89	3 1/2	6×11	8×12	35°	2	—	4.6	1431-89T45-611/812-45-51
	89	3 1/2	3×11, 2×11	6×13	35°	3	1	4.1	1433-89T45-511/613-45-51
	89	3 1/2	4×11, 1×11	8×12	35°	4	—	4.6	1433-89T45-511/812-45-51
	89	3 1/2	4×13, 1×13	8×13	35°	4	—	4.6	1432-89T45-513/813-45-51



Bench drilling

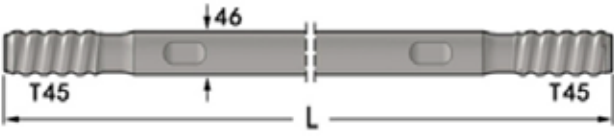
T45

Drill bit		Diameter		No x button diameter			Flushing hole		Weight approx kg	ANMA P/N	
		mm	inch	Front	Gauge	Angle	Front	Side			
Spherical buttons											
Retrac button bit			70	2 3/4	4X11	8X11	40°	2	-	2.5	1531-70T45-411/811-45-31
			70	2 3/4	3X11, 1X9	6X11	35°	3	-	2.5	1533-70T45-411/611-45-31
			70	2 3/4	4X10, 1X10	8X11	35°	4	-	2.5	1632-70T45-510/811-45-31
			76	3	4X11	8X11	40°	2	-	3.2	1531-76T45-411/811-45-31
			76	3	5X11	8X12	35°	2	1	3.2	1531-76T45-511/812-45-31
			76	3	3X11, 1X11	6X13	35°	3	-	3.2	1533-76T45-411/613-45-31
			76	3	4X11, 1X11	8X11	35°	4	-	3.2	1632-76T45-511/811-45-31
			76	3	4X11, 1X11	8X12	35°	4	-	3.2	1632-76T45-511/812-45-31
			89	3 1/2	4X13	8X13	40°	2	-	5.4	1531-89T45-413/813-45-31
			89	3 1/2	6X11	8X12	35°	2	-	5.4	1531-89T45-611/812-45-31
			89	3 1/2	3X11, 2X11	6X13	35°	3	1	5.4	1533-89T45-511/613-45-31
			89	3 1/2	4X11, 1X11	8X12	35°	4	-	5.4	1533-89T45-511/812-45-31
			89	3 1/2	4X13, 1X13	8X13	35°	4	-	5.4	1632-89T45-513/813-45-31
			102	4	5X14	8X14	40°	2	-	6.8	1531-102T45-514/814-45-31
			102	4	6X13	8X16	40°	2	1	6.8	1531-102T45-613/816-45-31
			102	4	3X13, 2X13	6X14	35°	3	1	6.8	1533-102T45-513/614-45-31
			102	4	4X13, 1X13	8X14	35°	4	-	6.8	1533-102T45-513/814-45-31
			102	4	4X13, 2X13	8X13	35°	4	1	6.8	1533-102T45-613/813-45-31
	Parabolic buttons										
		70	2 3/4	3X11, 1X9	6X11	35°	3	-	2.5	1533-70T45-411/611-45-51	
		70	2 3/4	4X10, 1X10	8X11	35°	4	-	2.5	1632-70T45-510/811-45-51	
		76	3	4X11	8X11	40°	2	-	3.2	1531-76T45-411/811-45-51	
		76	3	5X11	8X12	35°	2	1	3.2	1531-76T45-511/812-45-51	
		76	3	3X11, 1X11	6X13	35°	3	1	3.2	1533-76T45-411/613-45-51	
		76	3	4X11, 1X11	8X11	35°	4	-	3.2	1632-76T45-511/811-45-51	
		76	3	4X11, 1X11	8X12	35°	4	-	3.2	1632-76T45-511/812-45-51	
		89	3 1/2	4X13	8X13	40°	2	-	5.4	1531-89T45-413/813-45-51	
		89	3 1/2	6X11	8X12	35°	2	-	5.4	1531-89T45-611/812-45-51	
		89	3 1/2	3X11, 2X11	6X13	35°	3	1	5.4	1533-89T45-511/613-45-51	
		89	3 1/2	4X11, 1X11	8X12	35°	4	-	5.4	1533-89T45-511/812-45-51	
		89	3 1/2	4X13, 1X13	8X13	35°	4	-	5.4	1632-89T45-513/813-45-51	
Spherical buttons											
Dome bit for reaming			127	5	1X13	18X13	35°	3	1	6.0	1441-127T45-113/1813-45-31
			152	6	2X14	18X14	35°	3	1	10.6	1441-152T45-214/1814-45-31
Parabolic buttons											
			127	5	1X13	18X13	35°	3	1	6.0	1441-127T45-113/1813-45-51
			152	6	2X14	18X14	35°	3	1	10.6	1441-152T45-214/1814-45-51

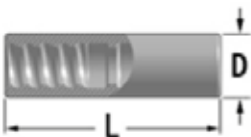


Bench drilling

T45

Drill rod	Length		Diameter		Weight approx kg	ANMA P/N
	mm	Foot	mm	inch		
Extension rod T45-Round46-T45 Flushing hole 17mm. Wrench flat 38mm. 	1830	6'	46	1 3/4	21.6	23R46-T45-1830-23
	2435	8'	46	1 3/4	28.3	23R46-T45-2435-23
	3050	10'	46	1 3/4	35.2	23R46-T45-3050-23
	3660	12'	46	1 3/4	42.1	23R46-T45-3660-23
	4270	14'	46	1 3/4	48.9	23R46-T45-4270-23
	5530	18'	46	1 3/4	63.0	23R46-T45-5530-23
	6095	20'	46	1 3/4	69.3	23R46-T45-6095-23
MF-rod T45-Round46-T45 Flushing hole 17mm. 	1525	5'	46	1 3/4	21.2	24R46-T45/65-1525-23
	1830	6'	46	1 3/4	24.6	24R46-T45/65-1830-23
	3050	10'	46	1 3/4	38.2	24R46-T45/65-3050-23
	3660	12'	46	1 3/4	45.0	24R46-T45/65-3660-23
	4270	14'	46	1 3/4	51.9	24R46-T45/65-4270-23
	5530	18'	46	1 3/4	66.0	24R46-T45/65-5530-23
	6095	20'	46	1 3/4	72.3	24R46-T45/65-6095-23
Guide speedrod T45-Round52-T45 Flushing hole 21.5mm. 	3050	10'	52	2	46.6	24R52-T45/65-3050-23
	3660	12'	52	2	55.8	24R52-T45/65-3660-23
	4270	14'	52	2	63.8	24R52-T45/65-4270-23
	5530	18'	52	2	81.5	24R52-T45/65-5530-23
	6095	20'	52	2	89.4	24R52-T45/65-6095-23

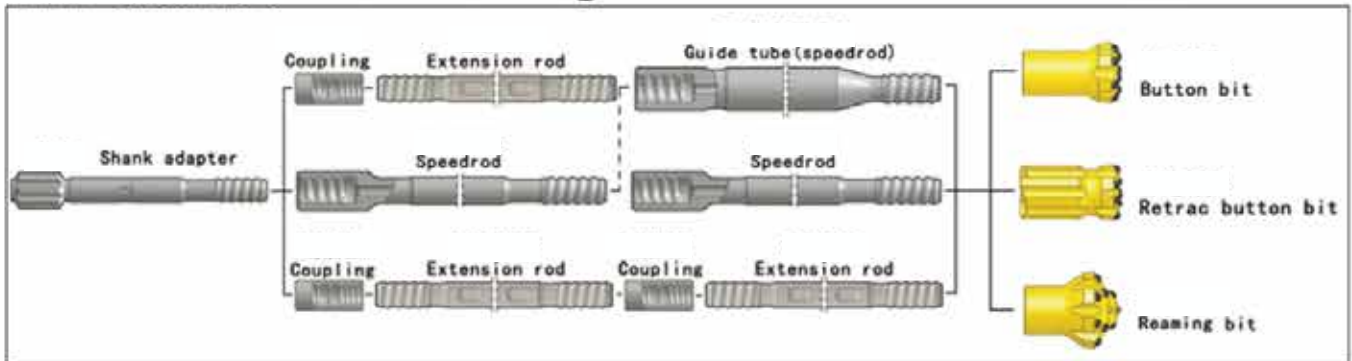
Guide tube	Length		Diameter		Weight approx kg	ANMA P/N
	mm	inch	mm	inch		
Guide tube D64 for bits from 76-89mm and D76 for bits from 89-102mm 	1220	4'	64	2 1/8	12.6	24G64-T45/64-1220-23
	1525	5'	64	2 1/8	14.0	24G64-T45/64-1525-23
	1830	6'	64	2 1/8	17.4	24G64-T45/64-1830-23
	3050	10'	64	2 1/8	28.3	24G64-T45/64-3050-23
	3660	12'	64	2 1/8	32.8	24G64-T45/64-3660-23
	1830	6'	76	3	40.0	24G76-T45/76-1830-23
	3660	12'	76	3	77.8	24G76-T45/76-3660-23

Coupling	Length		Diameter		Thread	Weight approx kg	ANMA P/N
	mm	inch	mm	inch			
Coupling sleeves 	210	8 1/4	63	2 33/64	T45	3.0	31-T45-63-210-23
	210	8 1/4	66	2 37/64	T45	3.3	31-T45-66-210-23



Bench drilling

T51

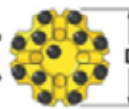
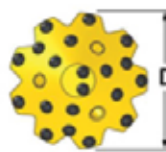


Drill bit		Diameter		No X button diameter			Flushing hole		Weight approx kg	ANMA P/N
		mm	inch	Front	Gauge	Angle	Front	Side		
Spherical buttons										
	89	3 1/2	4×13	8×13	40°	2	—	4.9	1431-89T51-413/813-45-31	
	89	3 1/2	5×13	8×13	35°	2	1	4.9	1431-89T51-513/813-45-31	
	89	3 1/2	3×11, 2×11	6×13	35°	4	—	4.9	1433-89T51-511/613-45-31	
	89	3 1/2	4×11, 1×11	8×13	35°	4	—	4.9	1433-89T51-511/813-45-31	
	89	3 1/2	4×13, 1×13	8×13	35°	4	—	4.9	1432-89T51-513/813-45-31	
	102	4	4×14	8×14	40°	2	—	5.8	1431-102T51-414/814-45-31	
	102	4	6×13	8×16	35°	2	1	5.8	1431-102T51-613/816-45-31	
	102	4	3×13, 2×13	6×14	35°	3	1	5.2	1433-102T51-513/614-45-31	
	102	4	4×13, 1×13	8×14	35°	4	—	5.8	1433-102T51-513/814-45-31	
	102	4	4×13, 2×13	8×13	35°	4	1	5.8	1433-102T51-613/813-45-31	
	115	4 1/2	6×14	8×14	35°	2	—	6.8	1431-115T51-614/814-45-31	
	115	4 1/2	6×14	8×16	35°	2	—	6.8	1431-115T51-614/816-45-31	
	115	4 1/2	4×13, 2×13	8×14	35°	4	—	6.8	1433-115T51-613/814-45-31	
	115	4 1/2	4×13, 3×13	8×14	35°	4	—	6.8	1433-115T51-713/814-45-31	
	115	4 1/2	4×14, 2×14	8×16	35°	4	—	6.8	1433-115T51-614/816-45-31	
	127	5	8×14	8×16	35°	2	1	7.5	1431-127T51-814/816-45-31	
	127	5	4×16, 2×13	8×16	35°	4	—	7.5	1433-127T51-616/816-45-31	
	127	5	4×14, 3×14	8×14	35°	4	—	7.5	1433-127T51-714/814-45-31	
Parabolic buttons										
	89	3 1/2	5×13	8×13	35°	2	1	4.9	1431-89T51-513/813-45-51	
	89	3 1/2	3×11, 2×11	6×13	35°	4	—	4.9	1433-89T51-511/613-45-51	
	89	3 1/2	4×11, 1×11	8×13	35°	4	—	4.9	1433-89T51-511/813-45-51	
	89	3 1/2	4×13, 1×13	8×13	35°	4	—	4.9	1432-89T51-513/813-45-51	
	102	4	4×14	8×14	40°	2	—	5.8	1431-102T51-414/814-45-51	
	102	4	6×13	8×16	35°	2	1	5.8	1431-102T51-613/816-45-51	
	102	4	3×13, 2×13	6×14	35°	3	1	5.2	1433-102T51-513/614-45-51	
	102	4	4×13, 1×13	8×14	35°	4	—	5.8	1433-102T51-513/814-45-51	
	102	4	4×13, 2×13	8×13	35°	4	1	5.8	1433-102T51-613/813-45-51	
	115	4 1/2	6×14	8×16	35°	2	—	6.8	1431-115T51-614/816-45-51	
	115	4 1/2	4×13, 2×13	8×14	35°	4	—	6.8	1433-115T51-613/814-45-51	
	115	4 1/2	4×13, 3×13	8×14	35°	4	—	6.8	1433-115T51-713/814-45-51	
	115	4 1/2	4×14, 2×14	8×16	35°	4	—	6.8	1433-115T51-614/816-45-51	



Bench drilling

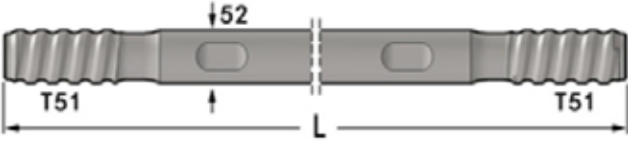
T51

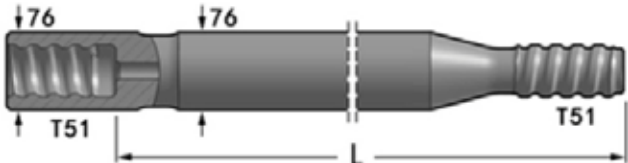
Drill bit	Diameter		No x button diameter			Flushing hole		Weight approx kg	ANMA P/N
	mm	inch	Front	Gauge	Angle	Front	Side		
Retrac button bit  	Spherical buttons								
	89	3 1/2	4×13	8×13	40°	2	—	5.3	1531-89T51-413/813-45-31
	89	3 1/2	5×13	8×13	35°	2	1	5.3	1531-89T51-513/813-45-31
	89	3 1/2	3×11, 2×11	6×13	35°	4	—	5.3	1533-89T51-511/613-45-31
	89	3 1/2	4×11, 1×11	8×13	35°	4	—	5.3	1533-89T51-511/813-45-31
	89	3 1/2	4×13, 1×13	8×13	35°	4	—	5.3	1632-89T51-513/813-45-31
	102	4	4×14	8×14	40°	2	—	7.3	1531-102T51-414/814-45-31
	102	4	6×13	8×16	35°	2	1	7.3	1531-102T51-613/816-45-31
	102	4	4×13, 1×13	8×14	35°	4	—	7.3	1533-102T51-513/814-45-31
	102	4	4×13, 2×13	8×13	35°	4	1	7.3	1533-102T51-613/813-45-31
	102	4	4×13, 1×13	8×14	35°	4	1	7.3	1533-102T51-513/814-45-31
	115	4 1/2	6×14	8×14	35°	2	—	9.8	1531-115T51-614/814-45-31
	115	4 1/2	6×14	8×16	35°	2	—	9.8	1531-115T51-614/816-45-31
	115	4 1/2	4×13, 2×13	8×14	35°	4	—	9.8	1533-115T51-613/814-45-31
	115	4 1/2	4×13, 3×13	8×14	35°	4	—	9.8	1533-115T51-713/814-45-31
	115	4 1/2	4×14, 2×14	8×16	35°	4	—	9.8	1533-115T51-614/816-45-31
	127	5	8×14	8×16	35°	2	1	12.0	1531-127T51-814/816-45-31
	127	5	4×16, 2×13	8×16	35°	4	—	12.0	1533-127T51-616/816-45-31
	127	5	4×14, 3×14	8×14	35°	4	—	12.0	1533-127T51-714/814-45-31
 	Parabolic buttons								
	89	3 1/2	5×13	8×13	35°	2	1	5.3	1531-89T51-513/813-45-51
	89	3 1/2	3×11, 2×11	6×13	35°	4	—	5.3	1533-89T51-511/613-45-51
	89	3 1/2	4×11, 1×11	8×13	35°	4	—	5.3	1533-89T51-511/813-45-51
	89	3 1/2	4×13, 1×13	8×13	35°	4	—	5.3	1632-89T51-513/813-45-51
	102	4	4×14	8×14	40°	2	—	7.3	1531-102T51-414/814-45-51
	102	4	6×13	8×16	35°	2	1	7.3	1531-102T51-613/816-45-51
	102	4	4×13, 1×13	8×14	35°	4	—	7.3	1533-102T51-513/814-45-51
	102	4	4×13, 2×13	8×13	35°	4	1	7.3	1533-102T51-613/813-45-51
	102	4	4×13, 1×13	8×14	35°	4	1	7.3	1533-102T51-513/814-45-51
	115	4 1/2	6×14	8×16	35°	2	—	9.8	1531-115T51-614/816-45-51
	115	4 1/2	4×13, 2×13	8×14	35°	4	—	9.8	1533-115T51-613/814-45-51
	115	4 1/2	4×13, 3×13	8×14	35°	4	—	9.8	1533-115T51-713/814-45-51
	115	4 1/2	4×14, 2×14	8×16	35°	4	—	9.8	1533-115T51-614/816-45-51
Dome bit for reaming  	Spherical buttons								
	152	6	2×14	18×14	35°	3	1	10.6	1441-152T51-214/1814-45-31
	Parabolic buttons								
	152	6	2×14	18×14	35°	3	1	10.6	1441-152T51-214/1814-45-51

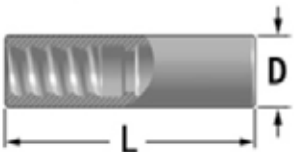


Bench drilling

T51

Drill rod	Length		Diameter		Weight approx kg	ANMA P/N
	mm	Foot	mm	inch		
Extension rod T51-Round52-T51 Flushing hole 21.5mm. Wrench flat 45mm.			3050	10'	45.3	23R52-T51-3050-23
			3660	12'	54.1	23R52-T51-3660-23
			4270	14'	63.0	23R52-T51-4270-23
			4880	16'	71.8	23R52-T51-4880-23
			5530	18'	81.2	23R52-T51-5530-23
			6095	20'	89.4	23R52-T51-6095-23
MF-rod T51-Round52-T51 Flushing hole 21.5mm.			1525	5'	26.2	24R52-T51/72-1525-23
			1830	6'	30.6	24R52-T51/72-1830-23
			3050	10'	48.3	24R52-T51/72-3050-23
			3660	12'	57.1	24R52-T51/72-3660-23
			4270	14'	66.0	24R52-T51/72-4270-23
			4880	16'	74.8	24R52-T51/72-4880-23
			5530	18'	84.2	24R52-T51/72-5530-23
			6095	20'	92.4	24R52-T51/72-6095-23

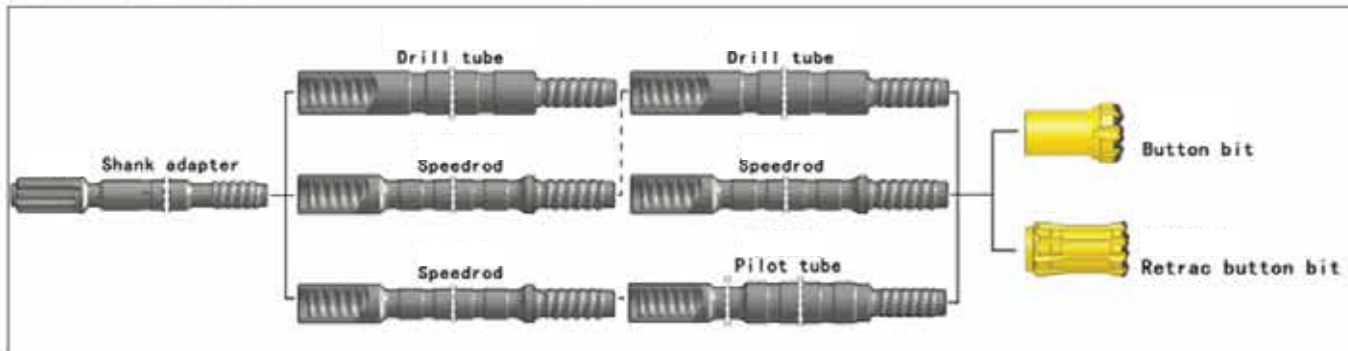
Guide tube	Length		Diameter		Weight approx kg	ANMA P/N
	mm	inch	mm	inch		
Guide tube D76 for bits from 89-102mm and D87 for bits from 102-127mm	1830	6'	76	3	42.0	24G76-T51/76-1830-23
	3660	12'	76	3	81.0	24G76-T51/76-3660-23
	3660	12'	87	3 1/2	86.0	24G87-T51/87-3660-23
						

Coupling	Length		Diameter		Thread	Weight approx kg	ANMA P/N
	mm	inch	mm	inch			
Coupling sleeves	225	8 7/8	71	2 51/64	T51	4.6	31-T51-71-225-23
	225	8 7/8	76	3	T51	4.8	31-T51-76-225-23
	235	9 1/4	72	2 7/8	T51	4.7	31-T51-72-235-23
	235	9 1/4	77	3 1/32	T51	4.9	31-T51-77-235-23
							



Bench drilling

T60

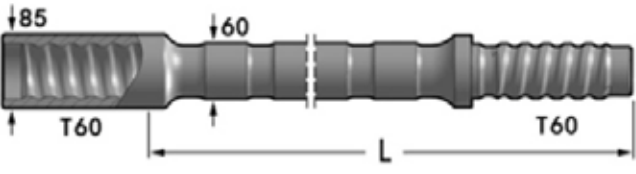
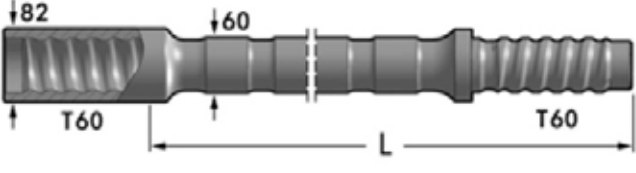
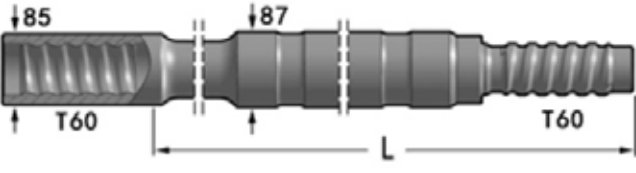
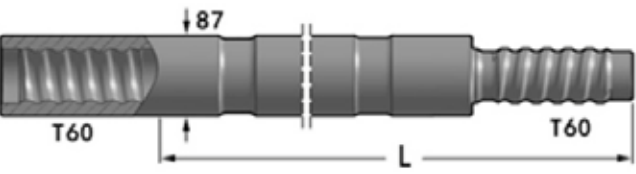


Drill bit	Diameter		No X button diameter			Flushing hole		Weight approx kg	ANMA P/N
	mm	inch	Front	Gauge	Angle	Front	Side		
Button bit 	Spherical buttons								
	92	3 5/8	4×13, 1×13	8×13	35°	4	-	5.3	1432-92T60-513/813-45-31
	96	3 3/4	4×13, 1×13	8×14	35°	4	-	5.6	1432-96T60-513/814-45-31
	102	4	9×11	9×13	35°	3	-	6.0	1431-102T60-911/913-45-31
	115	4 1/2	10×12	9×14	35°	3	-	6.8	1431-115T60-1012/914-45-31
	127	5	10×13	9×14	35°	3	-	7.5	1431-127T60-1013/914-45-31
	140	5 1/2	10×14	9×16	35°	3	-	9.0	1431-140T60-1014/916-45-31
	152	6	12×14	9×16	35°	3	-	10.6	1431-152T60-1214/916-45-31
	Parabolic buttons								
	92	3 5/8	4×13, 1×13	8×13	35°	4	-	5.3	1432-92T60-513/813-45-51
	96	3 3/4	4×13, 1×13	8×14	35°	4	-	5.6	1432-96T60-513/814-45-51
	102	4	9×11	9×13	35°	3	-	6.0	1431-102T60-911/913-45-51
	115	4 1/2	10×12	9×14	35°	3	-	6.8	1431-115T60-1012/914-45-51
	127	5	10×13	9×14	35°	3	-	7.5	1431-127T60-1013/914-45-51
	140	5 1/2	10×14	9×16	35°	3	-	9.0	1431-140T60-1014/916-45-51
	152	6	12×14	9×16	35°	3	-	10.6	1431-152T60-1214/916-45-51
Retrac button bit 	Spherical buttons								
	92	3 5/8	9×12	9×12	40°	2	-	5.4	1531-92T60-912/912-45-31
	96	3 3/4	9×12	9×12	40°	2	-	6.3	1531-96T60-912/912-45-31
	102	4	10×12	9×13	40°	2	-	7.3	1531-102T60-1012/913-45-31
	115	4 1/2	10×12	9×14	35°	3	-	9.8	1531-115T60-1012/914-45-31
	118	4 5/8	6×13	9×16	35°	3	-	10.0	1531-118T60-613/916-45-31
	127	5	10×13	9×14	35°	3	-	12.0	1531-127T60-1013/914-45-31
	140	5 1/2	10×14	9×16	35°	3	-	14.0	1531-140T60-1014/916-45-31
	152	6	12×14	9×16	35°	3	-	16.0	1531-152T60-1214/916-45-31
	Parabolic buttons								
	92	3 5/8	9×12	9×12	40°	2	-	5.4	1531-92T60-912/912-45-51
	96	3 3/4	9×12	9×12	40°	2	-	6.3	1531-96T60-912/912-45-51
	102	4	10×12	9×13	40°	2	-	7.3	1531-102T60-1012/913-45-51
	115	4 1/2	10×12	9×14	40°	3	-	9.8	1531-115T60-1012/914-45-51
	118	4 5/8	6×13	9×16	35°	3	-	10.0	1531-118T60-613/916-45-51
	127	5	10×13	9×14	35°	3	-	12.0	1531-127T60-1013/914-45-51
	140	5 1/2	10×14	9×16	35°	3	-	14.0	1531-140T60-1014/916-45-51
	152	6	12×14	9×16	35°	3	-	16.0	1531-152T60-1214/916-45-51



Bench drilling

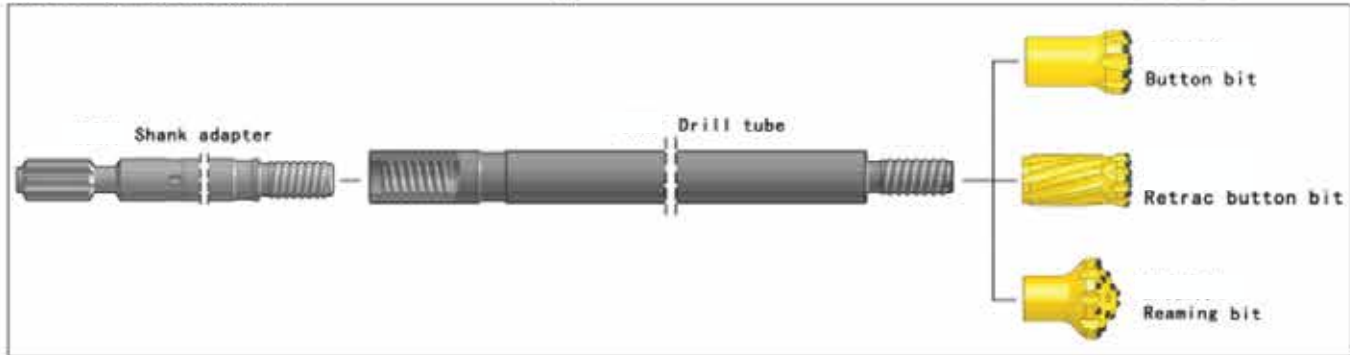
T60

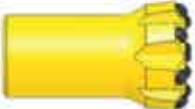
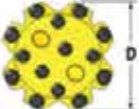
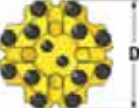
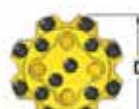
Drill rod	Length		Diameter		Weight approx kg	ANMA P/N
	mm	Foot	mm	inch		
MF-rod. For bits from 96mm Flushing hole 22.5mm. 	3660	12'	60	2 3/8	73.9	24R60-T60/85-3600-23
	4265	14'	60	2 3/8	85.5	24R60-T60/85-4265-23
	6095	20'	60	2 3/8	116.6	24R60-T60/85-6095-23
	4265	14'	64	2 1/2	95.0	24R64-T60/85-4265-23
MF-rod. For bits from 92-115mm Flushing hole 22.6mm. 	3660	12'	60	2 3/8	73.9	24R60-T60/82-3600-23
	4265	14'	60	2 3/8	85.5	24R60-T60/82-4265-23
	6095	20'	60	2 3/8	116.6	24R60-T60/82-6095-23
Pilot Tube Female end OD 85mm (82mm on 76mm tubes) 	1600	5'3"	87	3 1/2	39.0	24G87-T60/85-1600-23
	4265	14'	87	3 1/2	99.0	24G87-T60/85-4265-23
	5335	17'6"	76	3	124.9	24G76-T60/85-5335-23
Drill Tube 	3660	12'	87	3 1/2	87.8	24G87-T60/87-3660-23
	4265	14'	87	3 1/2	99.0	24G87-T60/87-4265-23



Tube drilling tools

ST58

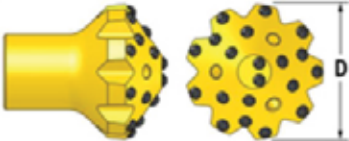


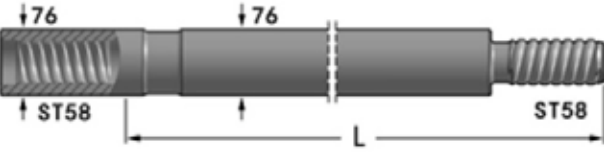
Drill bit	Diameter		No x button diameter			Flushing hole		Weight approx kg	ANMA P/N
	mm	inch	Front	Gauge	Angle	Front	Side		
Button bit      	Spherical buttons								
	89	3 1/2	6×12	8×12	35°	2	1	4.1	1431-89ST58-612/812-45-31
	89	3 1/2	6×13	8×13	35°	2	1	4.1	1431-89ST58-613/813-45-31
	89	3 1/2	4×13, 1×13	8×13	35°	4	-	4.1	1432-89ST58-513/813-45-31
	89	3 1/2	4×12, 2×12	8×12	35°	4	-	4.1	1433-89ST58-612/812-45-31
	95	3 3/4	4×13, 1×13	8×14	35°	4	-	4.6	1433-95ST58-513/814-45-31
	102	4	6×14	8×14	35°	2	-	6.0	1431-102ST58-614/814-45-31
	102	4	6×13	8×16	35°	2	1	6.0	1431-102ST58-613/816-45-31
	115	4 1/2	6×14	8×16	35°	2	-	7.0	1431-115ST58-614/816-45-31
	Parabolic buttons								
	89	3 1/2	6×12	8×12	35°	2	1	4.1	1431-89ST58-612/812-45-51
	89	3 1/2	6×13	8×13	35°	2	1	4.1	1431-89ST58-613/813-45-51
	89	3 1/2	4×13, 1×13	8×13	35°	4	-	4.1	1432-89ST58-513/813-45-51
	89	3 1/2	4×12, 2×12	8×12	35°	4	-	4.1	1433-89ST58-612/812-45-51
95	3 3/4	4×13, 1×13	8×14	35°	4	-	4.6	1433-95ST58-513/814-45-51	
102	4	6×14	8×14	35°	2	-	6.0	1431-102ST58-614/814-45-51	
102	4	6×13	8×16	35°	2	1	6.0	1431-102ST58-613/816-45-51	
115	4 1/2	6×14	8×16	35°	2	-	7.0	1431-115ST58-614/816-45-51	
Retrac button bit    	Spherical buttons								
	89	3 1/2	6×12	8×14	35°	2	1	5.1	1531-89ST58-612/814-45-31
	89	3 1/2	4×13, 1×13	8×13	35°	4	-	5.1	1632-89ST58-513/813-45-31
	102	4	7×12	8×14	35°	2	1	6.5	1531-102ST58-712/814-45-31
	115	4 1/2	6×14	8×16	35°	2	-	8.5	1531-115ST58-614/816-45-31
	Parabolic buttons								
	89	3 1/2	6×12	8×14	35°	2	1	5.1	1531-89ST58-612/814-45-51
	89	3 1/2	4×13, 1×13	8×13	35°	4	-	5.1	1632-89ST58-513/813-45-51
	102	4	7×12	8×14	35°	2	1	6.5	1531-102ST58-712/814-45-51
	115	4 1/2	6×14	8×16	35°	2	-	8.5	1531-115ST58-614/816-45-51



Tube drilling tools

ST58

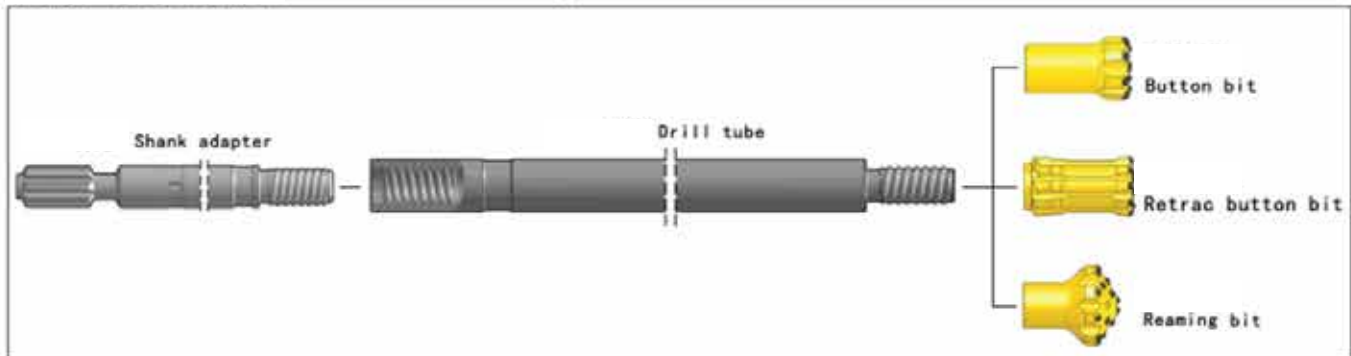
Drill bit	Diameter		No X button diameter			Flushing hole		Weight approx kg	ANMA P/N
	mm	inch	Front	Gauge	Angle	Front	Side		
Reaming bit 	Spherical buttons								
	152	6	6×16	9×16	35°	3	—	13.0	1441-152ST58-616/916-45-31
	152	6	2×14	18×14	35°	3	3	10.4	1441-152ST58-214/1814-45-31
	Parabolic buttons								
	152	6	6×16	9×16	35°	3	—	13.0	1441-152ST58-616/916-45-51
	152	6	2×14	18×14	35°	3	3	10.4	1441-152ST58-214/1814-45-51

Drill rod	Length		Diameter		Weight approx kg	ANMA P/N
	mm	Foot	mm	inch		
Drill tube, Flushing hole 26mm. 	1525	5'	76	2 3/8	34.0	24676-ST58/76-1525-23
	1830	6'	76	2 3/8	40.0	24676-ST58/76-1830-23
	3660	12'	76	2 3/8	76.3	24676-ST58/76-3660-23



Tube drilling tools

ST68

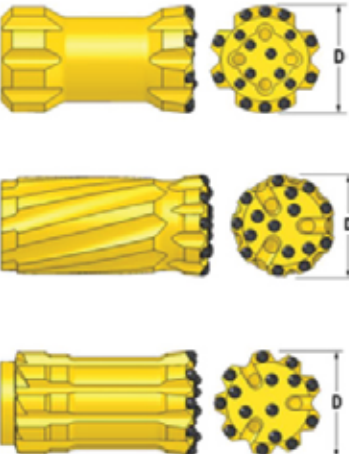
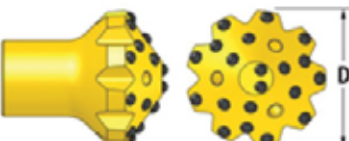


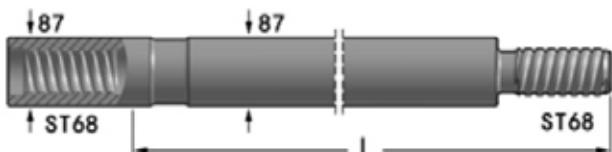
Drill bit	Diameter		No X button diameter			Flushing hole		Weight approx kg	ANMA P/N
	mm	inch	Front	Gauge	Angle	Front	Side		
Button bit 	Spherical buttons								
	102	4	6×14	8×14	35°	2	-	8.7	1431-102ST68-614/814-45-31
	102	4	4×12, 4×12	10×12	35°	4	-	8.7	1432-102ST68-812/1012-45-31
	105	4 1/8	6×14	8×14	35°	2	-	8.9	1431-105ST68-614/814-45-31
	105	4 1/8	4×14, 2×12	8×14	35°	4	-	8.9	1433-105ST68-614/814-45-31
	110	4 3/8	6×14	8×16	35°	2	-	9.4	1431-110ST68-614/816-45-31
	110	4 3/8	4×14, 2×14	8×16	35°	4	-	8.9	1433-110ST68-614/816-45-31
	115	4 1/2	6×14	8×16	35°	2	-	9.6	1431-115ST68-614/816-45-31
	115	4 1/2	4×14, 2×14	8×16	35°	4	-	9.5	1433-115ST68-614/816-45-31
	115	4 1/2	4×14, 4×14	10×14	35°	4	-	9.5	1433-115ST68-814/1014-45-31
	127	5	8×14	9×16	35°	3	-	11.0	1431-127ST68-814/916-45-31
	127	5	4×14, 3×14	8×16	35°	4	-	10.8	1433-127ST68-714/816-45-31
	152	6	8×16	9×16	35°	3	-	16.2	1431-152ST68-816/916-45-31
	152	6	9×16	9×16	35°	3	-	16.2	1431-152ST68-916/916-45-31
	152	6	9×14, 3×14	9×16	35°	3	-	16.2	1433-152ST68-1214/916-45-31
	Parabolic buttons								
	102	4	6×14	8×14	35°	2	-	8.7	1431-102ST68-614/814-45-51
	102	4	4×12, 4×12	10×12	35°	4	-	8.7	1432-102ST68-812/1012-45-51
	105	4 1/8	6×14	8×14	35°	2	-	8.9	1431-105ST68-614/814-45-51
	105	4 1/8	4×14, 2×12	8×14	35°	4	-	8.9	1433-105ST68-614/814-45-51
	110	4 3/8	6×14	8×16	35°	2	-	9.4	1431-110ST68-614/816-45-51
	110	4 3/8	4×14, 2×14	8×16	35°	4	-	8.9	1433-110ST68-614/816-45-51
	115	4 1/2	6×14	8×16	35°	2	-	9.6	1431-115ST68-614/816-45-51
	115	4 1/2	4×14, 2×14	8×16	35°	4	-	9.5	1433-115ST68-614/816-45-51
	115	4 1/2	4×14, 4×14	10×14	35°	4	-	9.5	1433-115ST68-814/1014-45-51
	127	5	8×14	9×16	35°	3	-	11.0	1431-127ST68-814/916-45-51
	127	5	4×14, 3×14	8×16	35°	4	-	10.8	1433-127ST68-714/816-45-51
	152	6	8×16	9×16	35°	3	-	16.2	1431-152ST68-816/916-45-51
	152	6	9×16	9×16	35°	3	-	16.2	1431-152ST68-916/916-45-51
	152	6	9×14, 3×14	9×16	35°	3	-	16.2	1433-152ST68-1214/916-45-51



Tube drilling tools

ST68

Drill bit	Diameter		No X button diameter			Flushing hole		Weight approx kg	ANMA P/N
	mm	inch	Front	Gauge	Angle	Front	Side		
Retrac button bit 	Spherical buttons								
	102	4	4×12, 4×12	10×12	35°	4	–	9.3	1632-102ST68-812/1012-45-31
	102	4	4×14, 2×12	8×14	35°	4	–	9.3	1533-102ST68-614/814-45-31
	110	4 3/8	6×14	8×16	35°	2	–	10.0	1531-110ST68-614/816-45-31
	115	4 1/2	6×14	8×16	35°	2	–	10.0	1531-115ST68-614/816-45-31
	127	5	8×14	9×16	35°	3	–	15.0	1531-127ST68-814/916-45-31
	140	5 1/2	9×14	9×16	35°	3	–	17.8	1531-140ST68-914/916-45-31
	Parabolic buttons								
	102	4	4×12, 4×12	10×12	35°	4	–	9.3	1632-102ST68-812/1012-45-51
	102	4	4×14, 2×12	8×14	35°	4	–	9.3	1533-102ST68-614/814-45-51
	110	4 3/8	6×14	8×16	35°	2	–	10.0	1531-110ST68-614/816-45-51
	115	4 1/2	6×14	8×16	35°	2	–	10.0	1531-115ST68-614/816-45-51
	127	5	8×14	9×16	35°	3	–	15.0	1531-127ST68-814/916-45-51
	140	5 1/2	9×14	9×16	35°	3	–	17.8	1531-140ST68-914/916-45-51
Reaming bit 	Spherical buttons								
	152	6	6×16	9×16	35°	3	–	13.0	1441-152ST68-616/916-45-31
	152	6	2×14	18×14	35°	3	3	10.4	1441-152ST68-214/1814-45-31
	Parabolic buttons								
	152	6	6×16	9×16	35°	3	–	13.0	1441-152ST68-616/916-45-51
	152	6	2×14	18×14	35°	3	3	10.4	1441-152ST68-214/1814-45-51

Drill rod	Length		Diameter		Weight approx kg	ANMA P/N
	mm	Foot	mm	inch		
Drill tube Flushing hole 30mm. 	1525	5'	87	3 7/16	35.5	24087-ST68/87-1525-23
	1830	6'	87	3 7/16	43.8	24087-ST68/87-1830-23
	3660	12'	87	3 7/16	80.0	24087-ST68/87-3660-23
	6110	20'	87	3 7/16	133.0	24087-ST68/87-6110-23

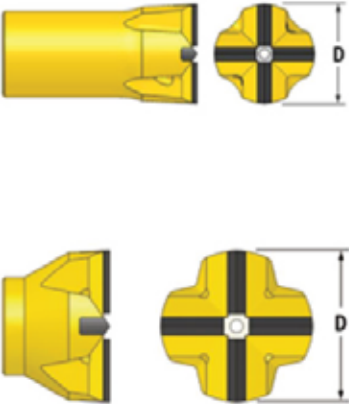


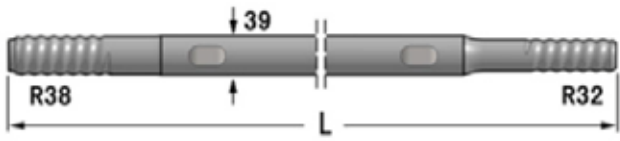
Furnace Tapping Tools

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Rock Tools For Furnace

Name of product	Diameter		Tip size (mm)	Thread	Weight approx kg	ANMA P/N
	mm	inch	H×W			
Cross-type bit 	45	1 3/4	7×8	R32	0.5	1222-45R32-7/8-40-24
	50	1 31/32	7×8	R32	0.6	1222-50R32-7/8-40-24
	55	2 1/8	7×8	R32	0.6	1222-55R32-7/8-40-24
	55	2 1/8	7×8	R38	0.7	1222-55R38-7/8-40-24
	55	2 1/8	7×8	T38	1.0	1222-55T38-7/8-40-24
	60	2 3/8	7×8	R32	0.7	1222-60R32-7/8-40-24
	60	2 3/8	7×8	R38	1.2	1222-60R38-7/8-40-24
	60	2 3/8	7×8	T38	1.3	1222-60T38-7/8-40-24
	65	2 1/2	7×8	R32	0.9	1222-65R32-7/8-40-24
	65	2 1/2	7×8	R38	1.3	1222-65R38-7/8-40-24
	65	2 1/2	7×8	T38	1.4	1222-65T38-7/8-40-24
	70	2 3/4	7×8	R32	1.3	1222-70R32-7/8-40-24
	70	2 3/4	7×8	T38	1.5	1222-70T38-7/8-40-24
	80	3 1/8	7×8	R32	1.7	1222-80R32-7/8-40-24
	100	3 3/4	7×8	R32	1.8	1222-100R32-7/8-40-24
Button bit 	48	1 7/8	6×10	R32	0.6	1431-48R32-6/10-42-53
	51	2	6×10	R32	0.7	1431-51R32-6/10-42-53
	54	2 1/8	6×11	R32	0.7	1431-54R32-6/11-42-53
	57	2 1/4	6×11	R32	0.8	1431-57R32-6/11-42-53

Name of product	Length		Weight (kg)	ANMA P/N
	mm	Foot		
R38-Round39-R32 	2800	9'2"	22.7	25R39-R32/R38-2800-40
	3400	11'2"	27.8	25R39-R32/R38-3400-40
	3600	11'9"	29.4	25R39-R32/R38-3600-40
	4100	13'5"	34.5	25R39-R32/R38-4100-40
	4300	14'1"	35.3	25R39-R32/R38-4300-40
T38-Round39-T38 	3000	9'8"	24.9	25R39-T38-3000-40
	3200	10'5"	26.5	25R39-T38-3200-40
	4000	13'1"	33.4	25R39-T38-4000-40



Shank adapters

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Shank adapter

Atlas Copco	Rock drill	Thread	Length (mm)	Weight (Kg)	Flushing (mm)	ANMA P/N
	Atlas Copco BBC 43, BBC 44, BBC 45, BBC 100	R32	380	2.2	10	4BBC43-32R32-10380-23
	Atlas Copco BBC 51, BBC 52, BBC 54, BBC 120	R32 T38	380 390	2.9 3.4	10 10	4BBC51-38R32-10380-23 4BBC51-38T38-10390-23
	Atlas Copco BBE 57	T38	538	5.6	14	4BBE57-44T38-14538-23
	Atlas Copco COP 125, COP 130, COP 131	T38	380	3.3	14	4125-39T38-14380-23
	Atlas Copco COP 1032HD	R32	340	3.7	-	41032HD-45R32-0340-23
		R38	340	4.4	-	41032HD-55R32-0340-23
	Atlas Copco COP 1032	R32 R35 R38 T38	550 550 550 550	5.3 5.6 5.7 5.7	- - - -	41032-45R32-0550-23 41032-45R35-0550-23 41032-45R38-0550-23 41032-45T38-0550-23
	Atlas Copco COP 1036 COP 1038HB	R32 T38	500 500	4.3 4.7	- -	41036-38R32-0500-23 41036-38T38-0500-23
		T45	500	5.3	-	41036-45T45-0500-23
	Atlas Copco COP 1038HD COP 1238	R32 R38 T38	485 485 485	4.3 4.5 4.5	- - -	41238-38R32-0485-23 41238-38R38-0485-23 41238-38T38-0485-23



Shank adapter

Atlas Copco	Rock drill	Thread	Length (mm)	Weight (Kg)	Flushing (mm)	ANMA P/N
	Atlas Copco COP 1038HL	R32 T38	575 575	4.9 5.2	- - -	41038HL-38R32-0575-23 41038HL-38T38-0575-23
		T45	575	6.1	-	41038HL-45T45-0575-23
	Atlas Copco COP 1238	R32	500	4.0	-	41238-38R32-0500-23
		T38	500	4.4	-	41238-38T38-0500-23
		R38	485	4.2	-	41238-38R38-0485-23
		T38	485	4.2	-	41238-38T38-0485-23
		T45	500	5.0	-	41238-45T45-0500-23
		R32	575	4.9	-	41238-38R32-0575-23
		R38	575	5.0	-	41238-38R38-0575-23
		T38	575	5.2	-	41238-38T38-0575-23
	Atlas Copco COP 1432, COP 1532, COP 1440, COP 1838 HD, COP 1838 ME	R32	435	3.9	-	41432-38R32-0435-23
		R38	435	4.2	-	41432-38R38-0435-23
		T38	435	4.2	-	41432-38T38-0435-23
		R32	525	4.8	-	41432-38R32-0525-23
	Atlas Copco COP 1432, COP 1532	T38	525	5.0	-	41432-38T38-0525-23
		R32	341	4.7	-	41432-55R32-0341-23
	Atlas Copco COP 1550, COP 1838ME/HE	R38	341	5.2	-	41432-55R38-0341-23
		T38	525	6.2	-	41550-52T38-0525-23
	Atlas Copco COP 1550, COP 1838ME/HE	T45	525	6.4	-	41550-52T45-0525-23
		T51	525	6.8	-	41550-52T51-0525-23



Shank adapter

Atlas Copco, Boart and Furukawa	Rock drill	Thread	Length (mm)	Weight (Kg)	Flushing (mm)	ANMA P/N
	Atlas Copco COP 1550 EX, COP 1838 EX	T38 T45 T51	730 730 730	10.1 10.5 10.7	– – –	41550EX-60T38-0730-23 41550EX-60T45-0730-23 41550EX-60T51-0730-23
	Atlas Copco COP 1840HE COP 1850	T45 T51	565 565	7.2 7.4	– –	41850-52T45-0565-23 41850-52T51-0565-23
	Atlas Copco COP 2150PG	T51	770	11.2	–	42150PG-52T51-0770-23
	Atlas Copco COP 2160EX	T45 T51	770 770	13.2 13.3	– –	42160EX-63T45-0770-23 42160EX-63T51-0770-23
	Atlas Copco COP 4050EX	ST68	805	69.6	–	44050EX-70ST68-0805-23
	Atlas Copco COP 4050MUX	ST68	835	69.9	–	44050MUX-90ST68-0835-23
	Boart HD 125, HD 150, HD 160	R38 T38	495 495	5.6 5.6	– –	4HD125-45R38-0495-23 4HD125-45T38-0495-23
	Furukawa M 120, PD 200	R32 R38 T38 T38	330 350 380 446	3.6 3.8 4.0 4.3	14.3 14.3 14.3 14.3	4M120-44R32-14330-23 4M120-44R38-14350-23 4M120-44T38-14380-23 4M120-44T38-14446-23
	Furukawa PD 200R	T38 T45	484 484	4.0 4.3	14.3 14.3	4PD200R-44T38-14484-23 4PD200R-44T45-14484-23
	Furukawa HD 260, HD 300	T38 T45	655 655	7.8 7.8	16 16	4HD260-45T38-16655-23 4HD260-45T45-16655-23



Shank adapter

Furukawa, Gardner-Denver, Ingersoll-Rand and Montabert	Rock drill	Thread	Length (mm)	Weight (Kg)	Flushing (mm)	ANMA P/N
	Furukawa HD 609	T38 T38 T45	620 690 620	6.2 6.5 6.9	— — —	4HD609-45T38-0620-23 4HD609-45T38-0690-23 4HD609-45T45-0620-23
	Furukawa HD 612	T45	710	9.2	—	4HD612-51T45-0710-23
	Furukawa HD 712	T45	788	11.2	—	4HD712-51T45-0788-23
	Gardner-Denver PR 123	R32 R38 T38 T45	380 380 380 380	3.6 3.9 3.9 4.2	14.3 14.3 14.3 14.3	4PR123-44R32-14380-23 4PR123-44R38-14380-23 4PR123-44T38-14380-23 4PR123-44T45-14380-23
	Ingersoll-Rand URD475, URD550, VL120, EVL130, VL140, F16	R32 R38 T38 T38	330 350 380 446	3.6 3.8 4.0 4.3	14 14 14 14	4VL120-44R32-14330-23 4VL120-44R38-14350-23 4VL120-44T38-14380-23 4VL120-44T45-14446-23
	Ingersoll-Rand YH 65, YH 80	T38 T45	500 500	5.8 6.1	19 19	4YH65-45T38-19500-23 4YH65-45T45-19500-23
	Ingersoll-Rand YH 65 RP, YH 70 RP, YH 75 RP, YH 80 RP	T45	700	8	19	4YH65RP-45T45-19700-23
	Montabert HC 40	R32 R38 T38	447 447 447	3.9 4.1 4.1	— — —	4HC40-38R32-0447-23 4HC40-38R38-0447-23 4HC40-38T38-0447-23
	Montabert HC 40	R32	270	4.1	—	4HC40-52R32-0270-23
	Montabert HC 40	R38	320	4.4	—	4HC40-55R38-0320-23



Shank adapter

Montabert and SIG	Rock drill	Thread	Length (mm)	Weight (Kg)	Flushing (mm)	ANMA P/N
	Montabert HC 80, HC 90, HC 105, HC 120	R32 R38 T38 T38	440 440 440 500	5.1 5.3 5.3 5.8	- - - -	4HC80-38R32-0440-23 4HC80-38R38-0440-23 4HC80-38T38-0440-23 4HC80-38T38-0500-23
	Montabert H 100	T38	540	5.6	14	4H100-45T38-14540-23
	Montabert HC 120, HC 150	T45	490	5.9	-	4HC120-45T45-0490-23
	Montabert HC 80R, HC 120R, HC 150R	T45 T51	670 670	8.3 8.3	- -	4HC80R-51T45-0670-23 4HC80R-51T51-0670-23
	Montabert HC 200	T51 T60	840 840	13.9 14.2	- -	4HC200-60T51-0840-23 4HC200-60T60-0840-23
	SIG HBM 50, HBM 100, HBM 120	R32	340	3.7	-	4HBM50-45R32-0340-23
	SIG HBM 100, HBM 120	R38	340	4.4	-	4HBM100-55R38-0340-23
	SIG HBM 50, HBM 100, HBM 120	R32	550	5.3	-	4HBM50-45R32-0550-23
	SIG HBM 101	R32	500	4.6	-	4HBM101-38R32-0500-23



Shank adapter

Sandvik (Tamrock)	Rock drill	Thread	Length (mm)	Weight (Kg)	Flushing (mm)	ANMA P/N
	Tamrock HL 300	R32	400	2.8	-	4HL300-32R32-0400-23
	Tamrock HL 300S	R32	245	2.8	-	4HL300S-45R32-0245-23
	Tamrock HLX 3	R32	324	3.8	-	4HLX3-45R32-0324-23
	Tamrock HLX 3F	R32	205	2.6	-	4HLX3F-45R32-0205-23
	Tamrock L400, L410, L500, L510, L550	R32	380	2.3	10	4L400-32R32-0380-23
	Tamrock HL 438, HL 538, HLR 438L, HLR 438T	R32 T38	380 400	3.2 3.6	12.7 12.7	4HL438-38R32-13380-23 4HL438-38T38-13400-23
	Tamrock HL 438LS, HL 438TS, HL 538, HL 538L, L 550S	R32 R38 T38 T38	450 450 455 545	4.1 4.3 4.3 4.8	- - - -	4HL538-38R32-0450-23 4HL538-38R38-0450-23 4HL538-38T38-0455-23 4HL538-38T38-0545-23
	Tamrock HL500-38, HL510-38	R32 T38	550 550	4.3 4.6	- -	4HL500-38R32-0550-23 4HL500-38T38-0550-23
	Tamrock HL 500-45, HL 510-45	R32 T38 T45	550 550 550	5.6 5.6 6.1	- - -	4HL500-45R32-0550-23 4HL500-45T38-0550-23 4HL500-45T45-0550-23



Shank adapter

Sandvik (Tamrock)	Rock drill	Thread	Length (mm)	Weight (Kg)	Flushing (mm)	ANMA P/N
	Tamrock HL 500S-38, HL 510S-38, HL 510B, HL 510HL	R32 R38 T38 R38 T38	460 460 460 500 500	3.9 4.1 4.1 4.3 4.3	- - - - -	4HL510B-38R32-0460-23 4HL510B-38R38-0460-23 4HL510B-38T38-0460-23 4HL510B-38R38-0500-23 4HL510B-38T38-0500-23
	Tamrock HL 500F, HL 510F	R32	350	3.6	-	4HL500F-45R32-0350-23
	Tamrock HL 550 SUPER, HL 560 SUPER, HL 510S-45	R38 T38 T45	500 500 500	5.5 5.5 5.6	- - -	4HL550-45R38-0500-23 4HL550-45T38-0500-23 4HL550-45T45-0500-23
	Tamrock HLX 5, HLX 5T	R32 R38 T38 R32 T38 T45	500 500 500 575 575 575	5.4 5.5 5.5 6.4 6.5 6.6	- - - - - -	4HLX5-45R32-0500-23 4HLX5-45R38-0500-23 4HLX5-45T38-0500-23 4HLX5-45R32-0575-23 4HLX5-45T38-0575-23 4HLX5-45T45-0575-23
	Tamrock HLX5 PE-45	R32 T38	575 575	6.3 6.4	- -	4HLX5PE-45R32-0575-23 4HLX5PE-45T38-0575-23
	Tamrock HL 600-45, HL 600S-45	T38 T45 R32 T38 T45	600 600 525 525 525	6.7 6.7 5.9 6.0 6.1	- - - - -	4HL600-45T38-0600-23 4HL600-45T45-0600-23 4HL600-45R32-0525-23 4HL600-45T38-0525-23 4HL600-45T45-0525-23
	Tamrock HL 600-52, HL 600S-52	T45 T51	650 650	8.0 8.0	- -	4HL600-52T45-0650-23 4HL600-52T51-0650-23
	Tamrock HL 645, HL 645S	T38 T45	600 600	6.6 6.8	- -	4HL645-45T38-0600-23 4HL645-45T45-0600-23
	Tamrock HL 650-45, HL 700-45, HL 700T-45, HL 710-45, HL 800T-45	T38 T45	600 600	7.3 7.8	- -	4HL650-45T38-0600-23 4HL650-45T45-0600-23



Shank adapter

Sandvik (Tamrock)	Rock drill	Thread	Length (mm)	Weight (Kg)	Flushing (mm)	ANMA P/N
	Tamrock HL 650-52, HL 700-52, HL 710-52, HL 800T-52	T38 T45 T51	600 600 600	8.3 8.8 8.8	– – –	4HL650-52T38-0600-23 4HL650-52T45-0600-23 4HL650-52T51-0600-23
	Tamrock HL 850 HL 850S	T45 T51	670 670	9.8 10.1	– –	4HL850-52T45-0670-23 4HL850-52T51-0670-23
	Tamrock HL 1000-52, HL 1000S-52	T45 T51 T45 T51	670 670 590 590	10.3 11.0 8.7 8.7	– – – –	4HL1000-52T45-0670-23 4HL1000-52T51-0670-23 4HL1000-52T45-0590-23 4HL1000-52T51-0590-23
	Tamrock HL 1000-60	T51 T60	670 670	13.3 13.4	– –	4HL1000-60T51-0670-23 4HL1000-60T60-0670-23
	Tamrock HL 1000-80	T60	670	20.9	–	4HL1000-80T60-0670-23
	Tamrock HL 1000S-80	ST58 ST68	635 640	18.2 19.1	– –	4HL1000S-80ST58-0635-23 4HL1000S-80ST68-0640-23
	Tamrock HL 1000 PE-52	T51	840	14.2	–	4HL1000PE-52T51-0840-23
	Tamrock HL 1000 PE-65, HL 1500 PE-65, HL 1500 T-65	T51 T60	760 760	16.8 16.9	– –	4HL1000PE-65T51-0760-23 4HL1000PE-65T60-0760-23
	Tamrock HL 1500-52, HL 1500T-52	T51	710	11.9	–	4HL1500-52T51-0710-23



Shank adapter

Sandvik (Tamrock), Others	Rock drill	Thread	Length (mm)	Weight (Kg)	Flushing (mm)	ANMA P/N
	Tamrock HL 1500-60, HL 1500T-60	T51 T60	760 760	16.1 16.1	— —	4HL1500-60T51-0760-23 4HL1500-60T60-0760-23
	Tamrock HL 1500-T80	T60	760	22.9	—	4HL1500-80T60-0760-23
	Tamrock HL 1500-S80	ST58 ST68	635 635	18.8 18.9	— —	4HL1500-80ST58-0635-23 4HL1500-80ST68-0635-23
	Tamrock HL 1500-SPE90	ST58 ST68	635 635	21.8 21.9	— —	4HL1500-90ST58-0635-23 4HL1500-90ST68-0635-23
		HL64	1180	35.6	—	40THER-70HL64-1180-23
		R32	410	3.1	—	40THER-35R32-410-23



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