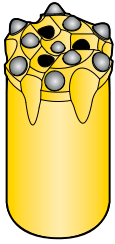
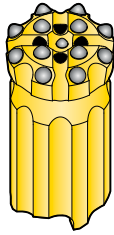


Drill bits



-6057-67



-6064-48-45-67

Please note text on page 26 about finished hole size.

Diameter		Product No.	Product code	No. of buttons	Buttons × button diameter (mm)		Buttons angle°		Flushing hole		Weight approx. kg
mm	inch				Gauge	Centre	Gauge	Centre	Side	Centre	
BUTTON BIT - Ballistic buttons											
57	2¼	90516556	171-6057-67,39-20	9	6×10	3×9	40°	–	–	3	1,2
64	2½	90516557	171-6064-48-45-67,39-20	12	8×10	4×10, 1×7	40°	–	–	4	1,9

Speedrods

TC42 (1²¹/₃₂"

Round 39 mm (1¹⁷/₃₂"

TC42 (1²¹/₃₂"



Fully carburized. D = 56 mm.
Flushing hole diameter 14,5 mm.

Length (L)		Product No.	Product code	Weight approx. kg
mm	foot			
2435	8	90516605	271-4724-MF-C,02	20,6
3050	10	90516553	271-4731-MF-C,02	25,5

Guide rods

TC42 (1²¹/₃₂"

Round 42 mm (1¹³/₁₆"

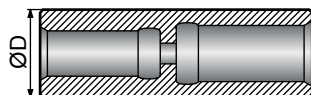
TC42 (1²¹/₃₂"



Fully carburized. D = 56 mm.
Flushing hole diameter 17,0 mm.

Length (L)		Product No.	Product code	Weight approx. kg
mm	foot/inch			
5500	18'½"	90003726	271-4955-MF-C,02	62,3
6100	20'	90516606	271-4961-MF-C,02	69,0
6400	21'	90516555	271-4964-MF-C,02	71,6

Couplings



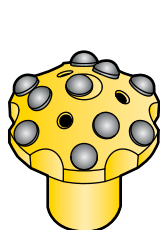
Cross over coupling.

Thread diameter		Diameter (D)		Length		Product No.	Product code	Weight approx. kg
mm	inch	mm	inch	mm	inch			
T38-TC42	1 ²¹ / ₃₂ -1 ¹ / ₂	57	2 ¹ / ₄	175	6 ⁷ / ₈	90516551	335-1057-71,10	2,0
R32-TC42	1 ¹ / ₄ -1 ¹ / ₂	57	2 ¹ / ₄	165	6 ¹ / ₂	90003675	303-1057-71,10	2,2

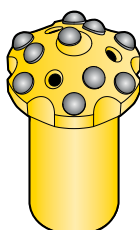
Dome bits for reaming

Taper angle 7°, 11°, 12°

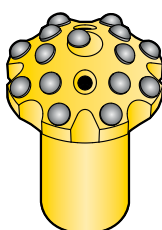
SR28 (1⅛"), SR32 (1¼"), R32 (1¼"), SR35 (1⅜"), TC35 (1⅜"), SR38 (1½")



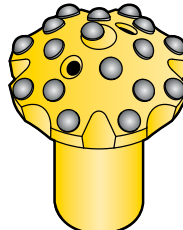
-5064-42-24



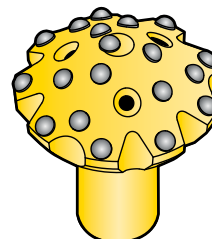
-5076-42-24



-5089-42-24



-5102-42-24



-5127-42-24

Please note text on page 26 about finished hole size.

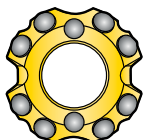
Taper angle	Diameter		Product No.	Product code	No. of buttons	Buttons × button diameter (mm)		Gauge buttons angle	Flushing hole		Weight approx. kg
	mm	inch				Gauge	Centre		Side	Centre	
TAPERED DOME BIT - Spherical buttons											
7°	64	2½	90003661	173-5064-42-24,49-20	10	9×11	1×11	35°	3	1	0,8
11°	64	2½	90003662	179-5064-42-24,49-20	10	9×11	1×11	35°	3	1	0,7
12°	64	2½	90003663	177-5064-42-24,49-20	10	9×11	1×11	35°	3	1	0,8

Thread		Diameter		Product No.	Product code	No. of buttons	Buttons × button diameter (mm)		Gauge buttons angle	Flushing hole		Weight approx. kg
mm	inch	mm	inch				Gauge	Centre		Side	Centre	
DOME BIT - Spherical buttons												
SR28	1⅛	76	3	90515258	125-5076-42-24,49-20	10	9×12,7	1×12,7	35°	–	3	2,0
SR32	1¼	102	4	90515257	126-5102-42-24,49-20	17	16×12,7	1×12,7	35°	2	2	3,2
R32	1¼	76	3	90514373	103-5076-42-24,49-20	10	9×12,7	1×12,7	35°	1	3	2,0
R32	1¼	89	3½	90510843	103-5089-42-24,49-20	15	14×12,7	1×12,7	35°	2	2	2,5
R32	1¼	127	5	90513779	103-5127-42-24,49-20	19	18×12,7	1×12,7	35°	1	3	4,8
SR35	1⅜	89	3½	90513848	128-5089-42-24,49-20	15	14×12,7	1×12,7	35°	2	2	2,5
SR35	1⅜	102	4	90513850	128-5102-42-24,49-20	17	16×12,7	1×12,7	35°	2	2	3,1
TC35	1⅜	102	4	90003723	169-5102-42-24,39-20	17	16×12,7	1×12,7	35°	2	2	3,1
SR35	1⅜	127	5	90514219	128-5127-42-24,49-20	19	18×12,7	1×12,7	35°	1	3	4,8
SR38	1½	102	4	90515831	127-5102-42-24,49-20	17	16×12,7	1×12,7	35°	2	2	3,1
DOME BIT - Ballistic buttons												
SR32	1¼	76	3	90514502	126-5076-42-24-67,49-20	10	9×12,7	1×12,7	35°	1	3	2,0
R32	1¼	76	3	90510821	103-5076-42-24-67,49-20	10	9×12,7	1×12,7	35°	1	3	2,0
R32	1¼	89	3½	90510820	103-5089-42-24-67,49-20	15	14×12,7	1×12,7	35°	2	2	2,5
R32	1¼	102	4	90510781	103-5102-42-24-67,49-20	17	16×12,7	1×12,7	35°	2	2	3,2
SR35	1⅜	89	3½	90513849	128-5089-42-24-67,49-20	15	14×12,7	1×12,7	35°	2	2	2,5
SR35	1⅜	102	4	90513851	128-5102-42-24-67,49-20	17	16×12,7	1×12,7	35°	2	2	3,1

Reaming equipment

Hex. 22 mm ($\frac{7}{8}$ "), R25 (1"), R28 ($1\frac{1}{8}$ "), R32 ($1\frac{1}{4}$ "), SR32 ($1\frac{1}{4}$ ")

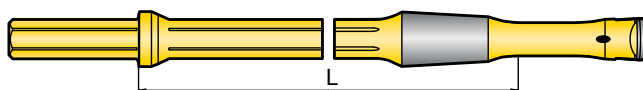
Drill bits, 6° taper angle



Reaming button bits for
R25 (1"), R32 ($1\frac{1}{4}$ ")
och SR32 ($1\frac{1}{4}$ ") pilot adapters.

Diameter		Product No.	Product code	No. of buttons	Buttons × button diameter (mm)		Gauge buttons angle°	Weight approx. kg
mm	inch				Gauge	Centre		
64	2½	90510459	175-5064,39-20	10	8×10	2×9	35°	0,8
76	3	90510460	175-5076,39-20	10	8×11	2×11	35°	1,2
89	3½	90510461	175-5089,39-20	12	8×11	4×11	35°	1,7

Pilot rod, 6° taper angle



22 mm ($\frac{7}{8}$ ") hex. Shank length 108 mm ($4\frac{1}{4}$ "). D = 26 mm ($1\frac{1}{32}$ ").

Length (L)		Product No.	Product code	Weight approx. kg
mm	foot/inch			
800	2'7½"	90000296	575-3108,11-17	3,3
1200	3'11¼"	90000297	575-3112,11-17	4,5
1600	5'3"	90000298	575-3116,11-17	5,6
2000	6'6¾"	90000300	575-3120,11-17	7,0
2400	7'10½"	90000301	575-3124,11-17	8,2

Pilot adapters, 6° taper angle (with insert)



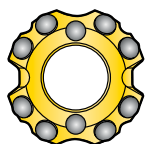
For 64, 76 and 89 mm reaming button bits.
Flushing hole diameter 6,0 mm.

Thread		Diameter (D)		Pilot hole mm	Product No.	Product code	Weight approx. kg
mm	inch	mm	inch				
R25	1	26	$1\frac{1}{32}$	36	90516256	502-2303,02-17	1,3
R32	$1\frac{1}{4}$	26	$1\frac{1}{32}$	36	90516257	503-2603,02-17	1,5
SR32	$1\frac{1}{4}$	26	$1\frac{1}{32}$	36	90516261	526-2603,02-17	1,4

Reaming equipment

**R28 (1 $\frac{1}{8}$ "), R32 (1 $\frac{1}{4}$ "), SR32 (1 $\frac{1}{4}$ "),
SR35 (1 $\frac{3}{8}$ "), SR38 (1 $\frac{1}{2}$ "), TC42 (1 $\frac{21}{32}$ ")**

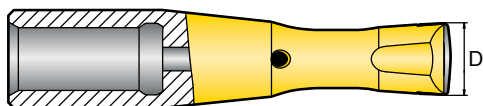
Drill bits, 12° taper angle



Reaming button bits for
R28 (1 $\frac{1}{8}$ "), R32/SR32 (1 $\frac{1}{4}$ "),
SR35 (1 $\frac{3}{8}$ "), SR38 (1 $\frac{1}{2}$ ") and
TC42 (1 $\frac{21}{32}$ ") pilot adapters.

Diameter		Product No.	Product code	No. of buttons	Buttons × button diameter (mm)		Gauge buttons angle°	Weight approx. kg
mm	inch				Gauge	Centre		
89	3 $\frac{1}{2}$	90510174	187-5089-20,39-20	12	8×12,7	4×10	35°	1,8
102	4	90510468	187-5102,39-20	12	8×11	4×11	35°	2,0
102	4	90510469	187-5102-20,39-20	12	8×12,7	4×12,7	35°	2,1
127	5	90510470	187-5127,39-20	20	12×12,7	8×12,7	35°	4,0

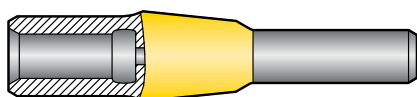
Pilot adapters, 12° taper angle (with insert)



For 89, 102 and 127 mm reaming button bits.
Flushing hole diameter 13,0 mm.

Thread		Diameter (D)		Pilot hole mm	Product No.	Product code	Weight approx. kg
mm	inch	mm	inch				
R28	1 $\frac{1}{8}$	36	1 $\frac{13}{32}$	38–48	90516254	507-7802,02-17	2,2
R32	1 $\frac{1}{4}$	40	1 $\frac{9}{16}$	41–48	90516258	503-7802,02-17	2,2
SR35	1 $\frac{3}{8}$	40	1 $\frac{9}{16}$	45–51	90516262	528-7802,02-17	2,3
TC42	1 $\frac{21}{32}$	40	1 $\frac{9}{16}$	57	90516640	571-7802,02-02	2,6

Pilot adapters, 12° taper angle



For 89, 102 and 127 mm reaming button bits.
Flushing hole diameter 10,0 mm.

Thread		Diameter		Pilot hole mm	Product No.	Product code	Weight approx. kg
mm	inch	mm	inch				
R32	1 $\frac{1}{4}$	–	–	41–48	90516265	503-7902,10	2,1
SR32	1 $\frac{1}{4}$	–	–	38	90516267	526-7902,10	2,1
SR38	1 $\frac{1}{2}$	41	1 $\frac{5}{8}$	51	90515856	527-7902,10	2,2

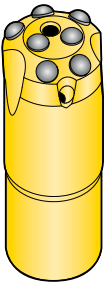




DRIFTING, TUNNELLING AND BOLTING

Drill bit design.....	26
Magnum SR22 ($\frac{7}{8}$")	27
R25 (1")	29
Magnum SR28 ($1\frac{1}{8}$")	32
R28 ($1\frac{1}{8}$")	36
Magnum SR32 ($1\frac{1}{4}$")	38
R32 ($1\frac{1}{4}$")	40
Magnum SR35 ($1\frac{3}{8}$")	45
Magnum SR38 ($1\frac{1}{2}$")	51
TC35 ($1\frac{3}{8}$")	53
TC42 ($1\frac{21}{32}$")	55
Dome bits for reaming	58
Reaming equipment.....	59

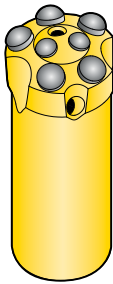
Drill bit design



Model -17

2+3 gauge buttons, 2 front buttons.

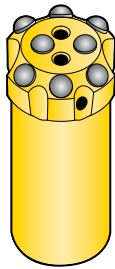
One front and two side flushing holes.



Model -27

2+3 gauge buttons, 2 front buttons.

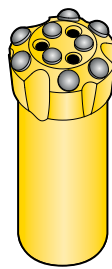
With its large gauge buttons, model -27 is ideal for medium-hard to hard abrasive rock. Available with spherical or ballistic (-67) buttons.



Model -34

3+3 gauge buttons, 2 front buttons.

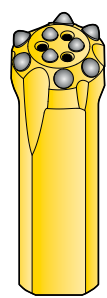
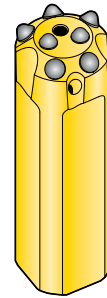
Model -34 offers very good penetration. Ideal for most rock formations including hard rock. Available with spherical or ballistic (-67) buttons.



Model -37

2+2+2 gauge buttons, 3 front buttons.

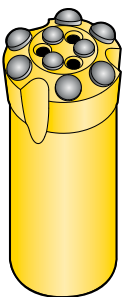
With 9 buttons and superb flushing, model -37 bits offer very good penetration. Ideal for most rock formations including hard rock with heavy frontal wear on the bit. Available with spherical or ballistic (-67) buttons.



Model -27-30, -37-30

Guide bit. Square skirt.

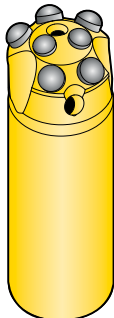
Ideal where hole deviation is a problem. Longer service life, better penetration rate and longer grinding intervals compared to a cross-type bit, which is normally used to avoid hole deviations. Suitable for most rock formations including hard rock. Available with spherical or ballistic (-67) buttons.



Model -39

2+2+2 gauge buttons, 3 smaller front buttons.

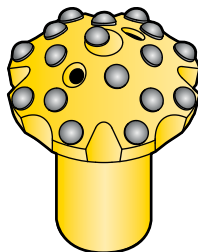
With its larger gauge buttons, model -39 is ideal for abrasive rock. Available with spherical or ballistic (-67) buttons.



Model -41

2+3 gauge buttons, 2 front buttons.

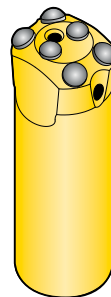
For medium-hard to hard rock formations. Available with spherical or ballistic (-67) buttons. Inclined front.



Model -42

Reaming bit. Dome-shaped front.

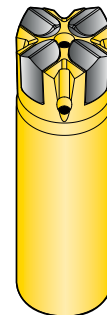
Model -42 is an alternative to traditional reaming equipment. Use in a pre-drilled pilot hole. Tried and tested with excellent results.



Model -56

2+2 gauge buttons, 2 smaller front buttons.

Traditionally used in hard rock formations, model -56 delivers excellent penetration rate. Available only with spherical buttons.



Cross-type bit

4 chisel inserts in cross formation.

Traditional insert bit for extremely abrasive rock formations. Ideal for soft formations that cause "snakeskin" problems for carbide. Produces straight holes but has lower penetration than button bits.

- [5] XXX

Flat face button bit

- [6] XXX

Drop center button bit

-XXXX- [67]

Ballistic buttons

-XXXX- [66]

Full-ballistic buttons

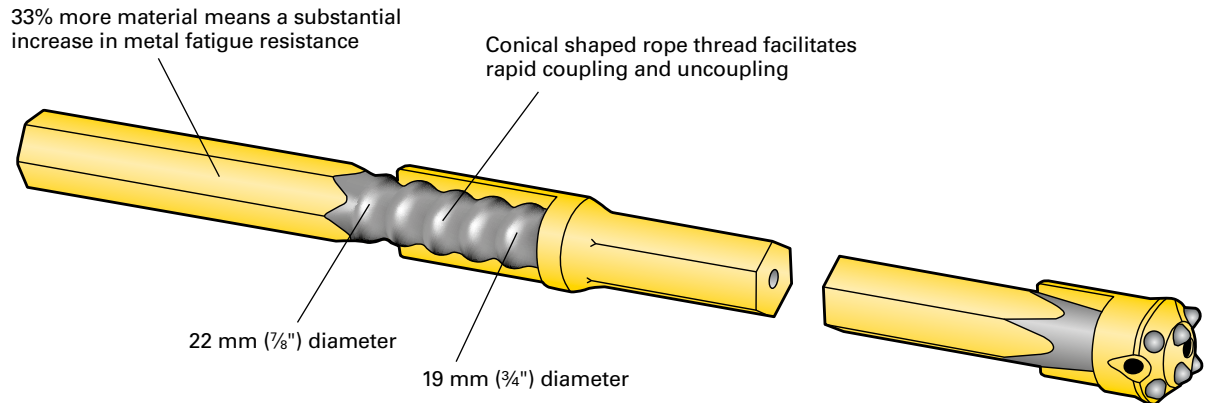
-XXXX- [45]

Retrac skirt

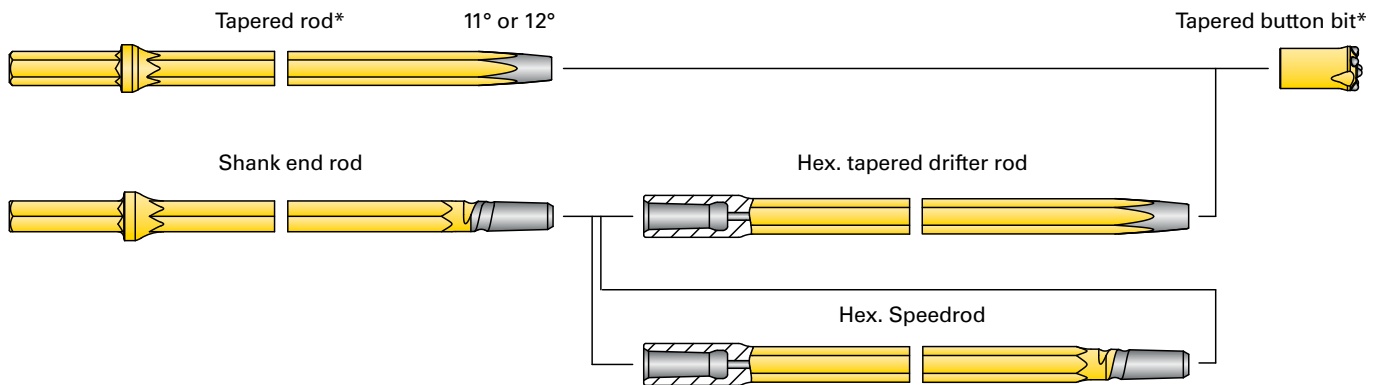
Please observe that all button bits are manufactured over-sized 0,5–1,0 mm, meaning that for example a 36,0 mm bit is at least 36,5 mm as new. This is done because of the fast initial wear on button bits.

It is important to consider that the drilled hole could vary in size due to drilling conditions, drilling practices and ground formation.

Magnum SR22 thread system

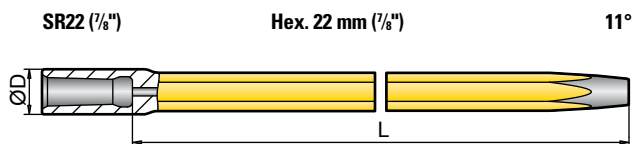


Magnum SR22 drill string



* Tapered rods and tapered button bits can be found on page 18 - 22.

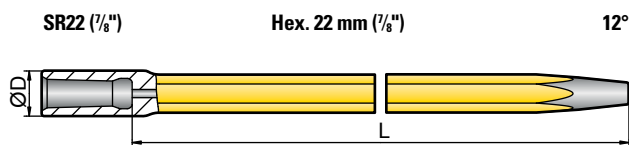
Tapered drifter rods



Fully carburized. D = 30 mm. Rod section 24,8 mm. Flushing hole diameter 6,7 mm.

Length (L)		Product No.	Product code	Weight approx. kg
mm	foot/inch			
140	5 1/2"	90003703	279-0201-29-91-MF-C,02	0,6
340	1'1 3/8"	90515243	279-0203-29-91-MF-C,02	1,3
600	1'11 5/8"	90516414	279-0206-29-MF-C,02	2,1

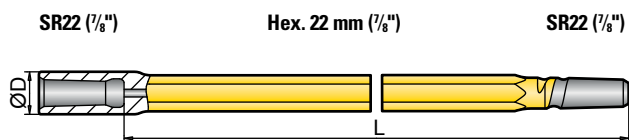
Tapered drifter rods



Fully carburized. D = 30 mm. Rod section 24,8 mm.
Flushing hole diameter 6,7 mm.

Length (L)		Product No.	Product code	Weight approx. kg
mm	foot/inch			
825	2'8½"	90003722	277-0208-29-91-MF-C,02	2,5

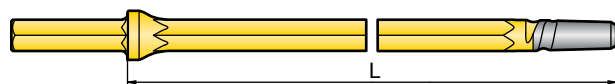
Speedrods



Fully carburized. D = 30 mm. Rod section 24,8 mm.
Flushing hole diameter 6,7 mm.

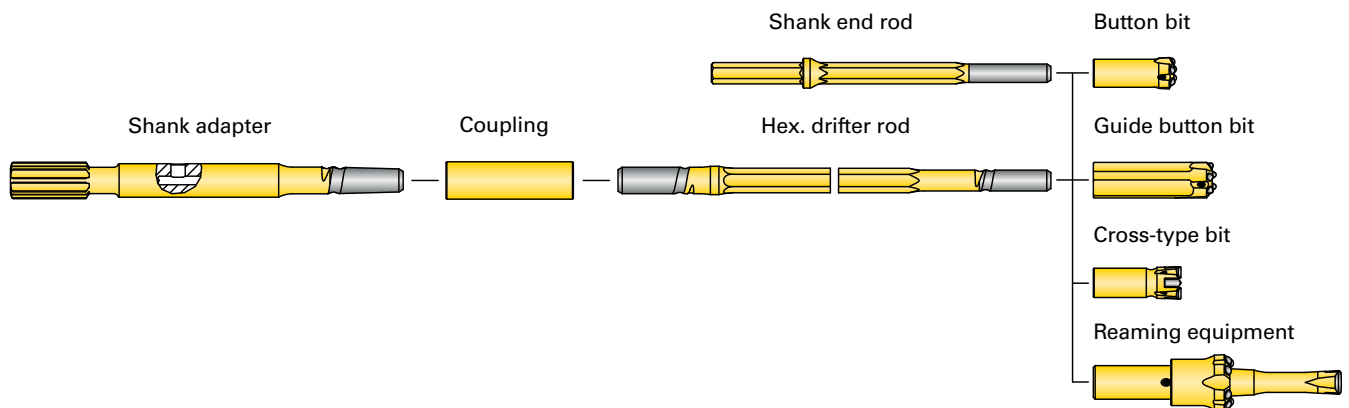
Length (L)		Product No.	Product code	Weight approx. kg
mm	foot/inch			
340	1'1⅜"	90515244	229-0203-91-MF-C,02	1,2
600	1'11⅝"	90516402	229-0206-MF-C,02	2,0
1220	4'	90516438	229-0212-MF-C,02	3,9
2435	8'	90516504	229-0224-MF-C,02	7,7

Shank end rods

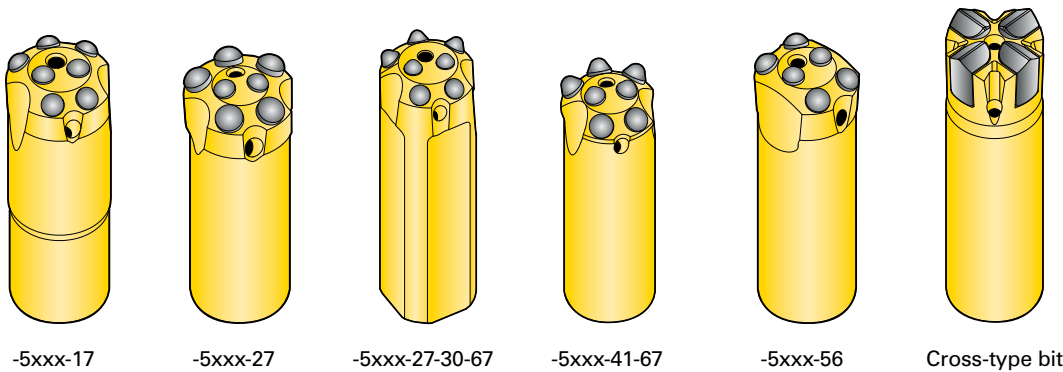


Fully carburized.
Flushing hole diameter 6,7 mm.

Length (L)		Product No.	Product code	Seal Product No.	Seal Product code	Weight approx. kg
mm	foot/inch					
Shank hex. 22 mm (7/8") × 108 mm (4¼"). 22 mm (7/8") thread.						
340	1'1 ³ / ₈ "	90003629	529-0103-91-C,02	–	–	1,4
552	1'9 ³ / ₄ "	90003631	529-0106-91-C,02	–	–	2,0
Shank hex. 22 mm (7/8") × 159 mm (6¼"). 22 mm (7/8") thread.						
100	3 ¹⁵ / ₁₆ "	90003645	529-0201-91-C,02	–	–	0,7
340	1'1 ³ / ₈ "	90003630	529-0203-91-C,02	–	–	1,4



Drill bits



Please note text on page 26 about finished hole size.

Diameter		Product No.	Product code	No. of buttons	Buttons × button diameter (mm)		Buttons angle°		Flushing hole		Weight approx. kg
mm	inch				Gauge	Centre	Gauge	Centre	Side	Centre	
BUTTON BIT - Spherical buttons											
33	1 ⁵ / ₁₆	90510448	102-5033-17,39-20	7	5×7	2×7	35°	–	1	1	0,4
35	1 ³ / ₈	90505181	102-5035-27,39-20	7	5×9	2×7	25°	10°	1	1	0,5
37	1 ¹⁵ / ₃₂	90505295	102-5037-27,39-20	7	5×9	2×7	30°	–	1	1	0,4
37	1 ¹⁵ / ₃₂	90513899	102-5037-99,39-20	7	5×9	2×7	35°	15°	1	1	0,5
38	1 ¹ / ₂	90505179	102-5038-27,39-20	7	5×9	2×7	30°	–	1	1	0,6
38	1 ¹ / ₂	90510206	102-5038-56,39-20	6	4×9	2×8	30°	–	2	1	0,5
41	1 ⁵ / ₈	90505175	102-5041-27,39-20	7	5×9	2×8	35°	–	1	1	0,6
41	1 ⁵ / ₈	90510207	102-5041-56,39-20	6	4×9	2×9	35°	–	2	1	0,6
45	1 ³ / ₄	90505145	102-5045-27,39-20	7	5×11	2×8	30°	–	2	1	0,7
45	1 ³ / ₄	90510208	102-5045-56,39-20	6	4×11	2×9	35°	–	2	1	0,6
48	1 ⁷ / ₈	90513912	102-5048-27,39-20	7	5×11	2×9	35°	10°	2	1	1,0
BUTTON BIT - Ballistic buttons											
33	1 ⁵ / ₁₆	90510274	102-5033-17-67,39-20	7	5×7	2×7	35°	–	1	1	0,4
33	1 ⁵ / ₁₆	90514118	102-5033-41-67,39-20	7	5×8	2×7	40°	15°	1	1	0,4
35	1 ³ / ₈	90509723	102-5035-27-67,39-20	7	5×9	2×7	25°	–	1	1	0,5
37	1 ¹⁵ / ₃₂	90513900	102-5037-99-67,39-20	7	5×9	2×7	40°	20°	1	1	0,5
38	1 ¹ / ₂	90505180	102-5038-27-67,39-20	7	5×9	2×7	40°	–	1	1	0,5
41	1 ⁵ / ₈	90505176	102-5041-27-67,39-20	7	5×9	2×8	40°	–	1	1	0,6
41	1 ⁵ / ₈	90510662	102-5041-27-30-67,39-20	7	5×9	2×8	40°	–	1	1	0,8

Cross-type bits on next page

Drill bits

Diameter		Product No.	Product code	Insert		Flushing hole		Weight approx. kg
mm	inch			Width (mm)	Height (mm)	Side	Centre	
CROSS-TYPE BIT								
35	1⅜	90514221	102-7035-44,20-17	10,3	19,5	2	1	0,4
38	1½	90514222	102-7038-44,20-17	10,3	19,5	4	1	0,7
41	1⅝	90514231	102-7041-44,20-17	11,1	20,0	4	1	0,8
45	1¾	90510687	102-7045-44,20-17	11,1	20,0	2	1	0,8
48	1⅞	90510652	102-7048-38,02-17	14,0	22,0	4	1	1,0

Drifter rods

R32 (1¹/₄") Hex. 25 mm (1") R25 (1")



Fully carburized. Rod section 28,4 mm. 
Flushing hole diameter 8,6 mm.

Length (L)		Product No.	Product code	Weight approx. kg
mm	foot/inch			
2100	6'10 ⁵ / ₈ "	90503413	202-0321-03-C,02	8,6
2200	7'2 ⁵ / ₈ "	90580096	202-0322-03-C,02	9,0
2400	7'10 ¹ / ₂ "	90503115	202-0324-03-C,02	9,3
2460	8'1 ⁷ / ₈ "	90510804	202-0325-03-91-C,02	10,1
2600	8'6 ³ / ₈ "	90504963	202-0326-03-C,02	10,0
2675	8'9 ³ / ₈ "	90505259	202-0327-03-91-C,02	10,4
2800	9'2 ¹ / ₄ "	90505346	202-0328-03-C,02	10,8
3090	10'1 ⁵ / ₈ "	90539158	202-0331-03-C,02	12,0
3700	12'1 ⁵ / ₈ "	90002721	202-0337-03-C,02	14,6
4000	13'1 ¹ / ₂ "	90590088	202-0340-03-C,02	15,8

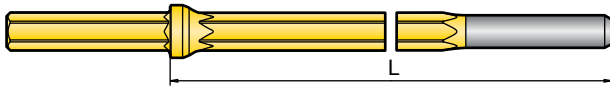
Couplings



Full bridge -57.

Thread diameter		Diameter		Length		Product No.	Product code	Weight approx. kg
mm	inch	mm	inch	mm	inch			
R32	1 ¹ / ₄	44	1 ²³ / ₃₂	150	5 ⁷ / ₈	90515731	303-0044,10	0,9
R32	1 ¹ / ₄	44	1 ²³ / ₃₂	160	6 ⁵ / ₁₆	90515732	303-0044-57,10	1,0

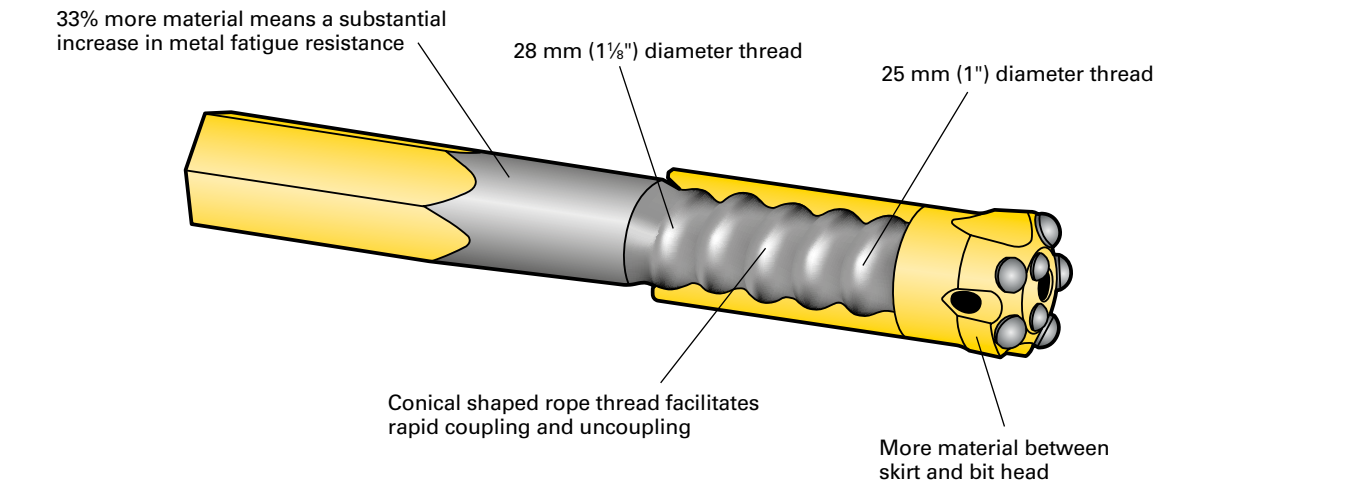
Shank end rods



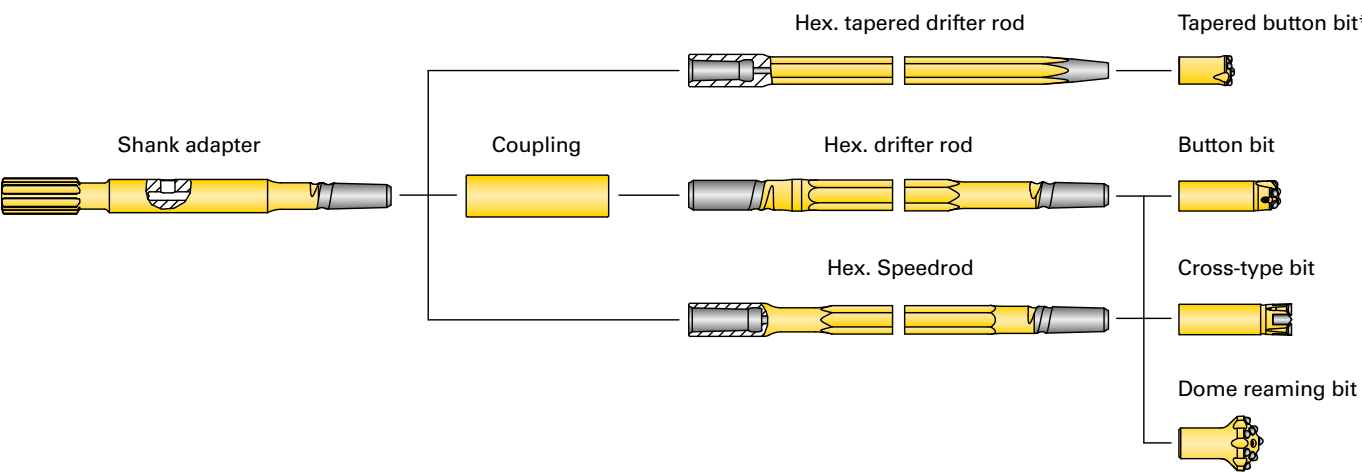
Fully carburized.

Length (L)		Product No.	Product code	Seal Product No.	Seal Product code	Weight approx. kg
mm	foot/inch					
Shank hex. 22 mm (7/8") × 108 mm (4¼"). 25 mm (1") thread. Flushing hole diameter 8,6 mm.						
265	10⅜"	90000237	502-0103-06-C,02	90002182	9232	1,2
610	2'	90570115	502-0106-06-C,02	90002182	9232	2,3
760	2'5⅞"	90510004	502-0108-06-C,02	90002182	9232	2,9
1000	3'3⅜"	90531258	502-0110-06-C,02	90002182	9232	3,4
1200	3'11¼"	90580089	502-0112-06-C,02	90002182	9232	4,5
1600	5'3"	90514336	502-0116-06-C,02	90002182	9232	5,7
1830	6'	90500017	502-0118-06-C,02	90002182	9232	6,1
2400	7'10½"	90513918	502-0124-C,02	—	—	7,9
2435	8'	90510009	502-0124-06-C,02	90002182	9232	7,9
3200	10'6"	90513919	502-0132-C,02	—	—	10,4
3200	10'6"	90500012	502-0132-06-C,02	90002182	9232	10,4
3600	11'9¾"	90510785	502-0136-C,02	—	—	11,8
4000	13'1½"	90502700	502-0140-06-C,02	90002182	9232	13,0
Shank hex. 25 mm (1") × 108 mm (4¼"). 25 mm (1") thread. Flushing hole diameter 8,6 mm.						
255	10"	90000240	502-1203-C,02	90000378	9150-08	1,4
610	2'	90505425	502-1206-C,02	90000378	9150-08	3,1
1200	3'11¼"	90505424	502-1212-C,02	90000378	9150-08	5,1
1830	6'	90505423	502-1218-C,02	90000378	9150-08	7,7
2435	8'	90500568	502-1224-C,02	90000378	9150-08	9,5
Shank hex. 25 mm (1") × 159 mm (6¼"). 25 mm (1") thread. Flushing hole diameter 8,6 mm.						
255	10"	90000247	502-1503-C,02	90000378	9150-08	1,6
610	2'	90510516	502-1506-C,02	90000378	9150-08	3,1
800	2'7½"	90513915	502-1508-C,02	90000378	9150-08	4,1
3200	10'6"	90000986	502-1532-C,02	90000378	9150-08	13,2

Magnum SR28 thread system

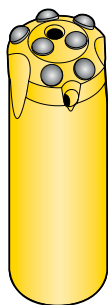


Magnum SR28 drill string

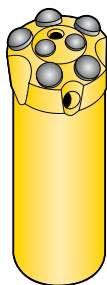


* Tapered button bits can be found on page 18 - 20.

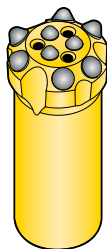
Drill bits



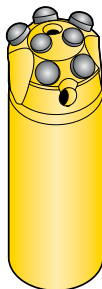
-5033-17



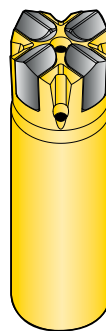
-5xxx-27



-5xxx-37-67



-5xxx-41



Cross-type bit

Please note text on page 26 about finished hole size.

Diameter		Product No.	Product code	No. of buttons	Buttons × button diameter (mm)		Buttons angle°		Flushing hole		Weight approx. kg
mm	inch				Gauge	Centre	Gauge	Centre	Side	Centre	
BUTTON BIT - Spherical buttons											
33	1 ⁵ / ₁₆	90514200	125-5033-17,39-20	7	5×7	2×7	35°	–	1	1	0,4
33	1 ⁵ / ₁₆	90514117	125-5033-41,39-20	7	5×8	2×7	40°	15°	1	1	0,4
35	1 ³ / ₈	90514322	125-5035-27,39-20	7	5×9	2×7	25°	10°	1	1	0,4
37	1 ⁵ / ₃₂	90514167	125-5037-99,39-20	7	5×9	2×7	35°	15°	1	1	0,5
38	1½	90514282	125-5038-27,39-20	7	5×9	2×7	30°	–	1	1	0,5
38	1½	90514705	125-5038-27-99,39-20*	7	5×9	2×7	30°	–	1	1	0,6
41	1 ⁵ / ₈	90515379	125-5041-27,39-20	7	5×9	2×8	40°	–	1	1	0,7
42	1 ²¹ / ₃₂	90515543	125-5042-27,39-20	7	5×9	2×8	40°	–	1	1	0,7
45	1¾	90514507	125-5045-27,39-20	7	5×11	2×8	30°	–	2	1	0,6
51	2	90514793	125-5051-27,39-20	7	5×11	2×10	45°	–	2	1	0,9
BUTTON BIT - Ballistic buttons											
33	1 ⁵ / ₁₆	90514137	125-5033-41-67,39-20	7	5×8	2×7	40°	15°	1	1	0,4
35	1 ³ / ₈	90514102	125-5035-27-67,39-20	7	5×9	2×7	25°	10°	1	1	0,4
38	1½	90516334	125-5038-41-67,39-20	7	5×9	2×8	40°	20°	1	1	0,5
41	1 ⁵ / ₈	90516383	125-5041-37-67,39-20	9	6×9	3×7	40°	–	–	3	0,5
45	1¾	90516422	125-5045-37-67,39-20	9	6×9	3×8	40°	–	–	3	0,7
CROSS-TYPE BIT				Insert							
				Width (mm)		Height (mm)					
33	1 ⁵ / ₁₆	90514429	125-7033-44,20-17	10,3		19,5		2	1	0,5	
35	1 ³ / ₈	90516590	125-7035-44,20-17	10,3		19,5		2	1	0,5	

* Thicker skirt.

Tapered drifter rods

SR28 (1 1/8")

Hex. 22 mm (7/8")

12 °



Fully carburized. D = 34 mm. Rod section 24,8 mm.
Flushing hole diameter 6,7 mm.



Length (L)		Product No.	Product code	Weight approx. kg
mm	foot/inch			
675	2'2 5/8"	90514449	277-0207-25-91-MF-C,02	2,3
1165	3'9 7/8"	90514450	277-0212-25-91-MF-C,02	3,8
1665	5'5 1/2"	90514451	277-0217-25-91-MF-C,02	5,3

Drifter rods

R32 (1 1/4")

Hex. 28 mm (1 1/8")

SR28 (1 1/8")

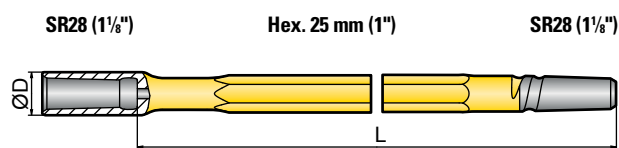


Fully carburized. Rod section 31,8 mm.
Flushing hole diameter 8,8 mm.



Length (L)		Product No.	Product code	Weight approx. kg
mm	foot/inch			
2100	6'10 5/8"	90514162	225-0421-03-C,02	10,4
2300	7'6 1/2"	90514163	225-0423-03-C,02	11,4
2400	7'10 1/2"	90514370	225-0424-03-C,02	12,2
2600	8'6 3/8"	90514153	225-0426-03-C,02	12,9
2675	8'9 3/8"	90514103	225-0427-03-91-C,02	13,3
2800	9'2 1/4"	90514164	225-0428-03-C,02	14,3
2950	9'8 1/8"	90514371	225-0430-03-91-C,02	14,9
3090	10'1 5/8"	90514168	225-0431-03-C,02	15,8
3300	10'9 7/8"	90515496	225-0433-03-C,02	16,9
3700	12'1 5/8"	90514966	225-0437-03-C,02	18,9
5530	18'1 3/4"	90514599	225-0455-03-C,02	28,8

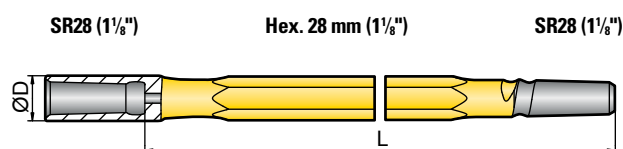
Speedrods



Fully carburized. D = 34 mm. Rod section 28,4 mm.
Flushing hole diameter 8,6 mm.



Length (L)		Product No.	Product code	Weight approx. kg
mm	foot			
3050	10	90516350	225-0331-69-MF-C,02	12,1



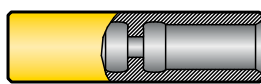
Fully carburized. D = 34 mm. Rod section 31,8 mm.
Flushing hole diameter 8,8 mm.



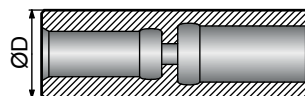
Length (L)		Product No.	Product code	Weight approx. kg
mm	foot/inch			
420	1'4 1/2"	90516476	225-0404-91-MF-C,02	2,2
700	2'3 1/2"	90515420	225-0407-69-MF-C,02	3,7
1200	3'11 1/4"	90514792	225-0412-MF-C,02*	6,2
2000	6'6 3/4"	90003524	225-0420-69-MF-C,02	10,5

* 38 mm diameter (D) on female end.

Couplings



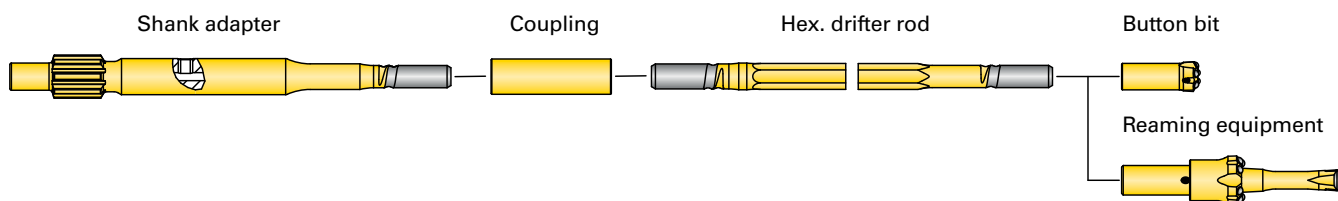
Full bridge -57.



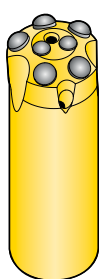
Cross over coupling.

Thread diameter		Diameter (D)		Length		Product No.	Product code	Weight approx. kg
mm	inch	mm	inch	mm	inch			
R32	1 1/4	44	1 23/32	150	5 7/8	90515731	303-0044,10	0,9
R32	1 1/4	44	1 23/32	160	6 5/16	90515732	303-0044-57,10	1,0
R32-R38	1 1/4-1 1/2	55	2 5/32	170	6 3/4	90515748	303-1055-04,10*	2,0
R32-T38	1 1/4-1 1/2	55	2 5/32	170	6 3/4	90515749	303-1055-35,10*	2,0

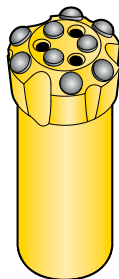
* Cross over coupling.



Drill bits



-5xxx-27



-5xxx-37

Please note text on page 26 about finished hole size.

Diameter		Product No.	Product code	No. of buttons	Buttons × button diameter (mm)		Gauge buttons angle°	Flushing hole		Weight approx. kg
mm	inch				Gauge	Centre		Side	Centre	
BUTTON BIT - Spherical buttons										
37	1 ⁵ / ₃₂	90505296	107-5037-27,39-20	7	5×9	2×7	30°	1	1	0,6
38	1 ¹ / ₂	90505177	107-5038-27,39-20	7	5×9	2×7	30°	1	1	0,6
41	1 ⁵ / ₈	90505173	107-5041-27,39-20	7	5×9	2×8	35°	1	1	0,7
43	1 ¹¹ / ₁₆	90505169	107-5043-27,39-20	7	5×9	2×9	35°	2	1	0,7
45	1 ³ / ₄	90509467	107-5045-37,39-20	9	6×9	3×8	35°	1	3	0,8
BUTTON BIT - Ballistic buttons										
38	1 ¹ / ₂	90505178	107-5038-27-67,39-20	7	5×9	2×7	40°	1	1	0,6
41	1 ⁵ / ₈	90505174	107-5041-27-67,39-20	7	5×9	2×8	40°	1	1	0,6

Drifter rods

R32 (1 1/4") Hex. 28 mm (1 1/8") R28 (1 1/8")



Fully carburized. Rod section 31,8 mm.
Flushing hole diameter 8,8 mm.

Length (L)		Product No.	Product code	Weight approx. kg
mm	foot/inch			
2400	7'10 1/2"	90500951	207-0424-03-C,02	11,9
2600	8'6 3/8"	90502257	207-0426-03-C,02	13,6
2750	9'1 1/4"	90509861	207-0428-03-91-C,02	14,4
3090	10'1 5/8"	90002714	207-0431-03-C,02	15,4
3400	11'1 7/8"	90502731	207-0434-03-C,02	17,9
3700	12'1 5/8"	90500410	207-0437-03-C,02	18,5
4310	14'1 5/8"	90500445	207-0443-03-C,02	21,5
5530	18'1 3/4"	90504989	207-0455-03-C,02	28,8

R38 (1 1/2") Hex. 32 mm (1 1/4") R28 (1 1/8")



Fully carburized. Rod section 35,8 mm.
Flushing hole diameter 9,6 mm.

Length (L)		Product No.	Product code	Weight approx. kg
mm	foot/inch			
3090	10'1 5/8"	90502394	207-0531-04-C,02	20,5
3700	12'1 5/8"	90503041	207-0537-04-C,02	23,5
4310	14'1 5/8"	90502357	207-0543-04-C,02	27,3

R38 (1 1/2") Hex. 28 mm (1 1/8") R28 (1 1/8")



Fully carburized. Rod section 31,8 mm.
Flushing hole diameter 8,8 mm.

Length (L)		Product No.	Product code	Weight approx. kg
mm	foot/inch			
2475	8'1 1/2"	90505270	207-0424-04-91-C,02	13,0
4310	14'1 5/8"	90570055	207-0443-04-C,02	21,9

R32 (1 1/4") Hex. 32 mm (1 1/4") R28 (1 1/8")



With slimmed shank end for female shank adapters.
Fully carburized. Rod section 35,8 mm.
Flushing hole diameter 9,6 mm.

Length (L)		Product No.	Product code	Weight approx. kg
mm	foot/inch			
4000	13'1 1/2"	90503345	207-0540-03-78-C,02	25,6
4310	14'1 5/8"	90503346	207-0543-03-78-C,02	27,5

R32 (1 1/4") Hex. 32 mm (1 1/4") R28 (1 1/8")



Fully carburized. Rod section 35,8 mm.
Flushing hole diameter 9,6 mm.

Length (L)		Product No.	Product code	Weight approx. kg
mm	foot/inch			
3090	10'1 5/8"	90502740	207-0531-03-C,02	19,7

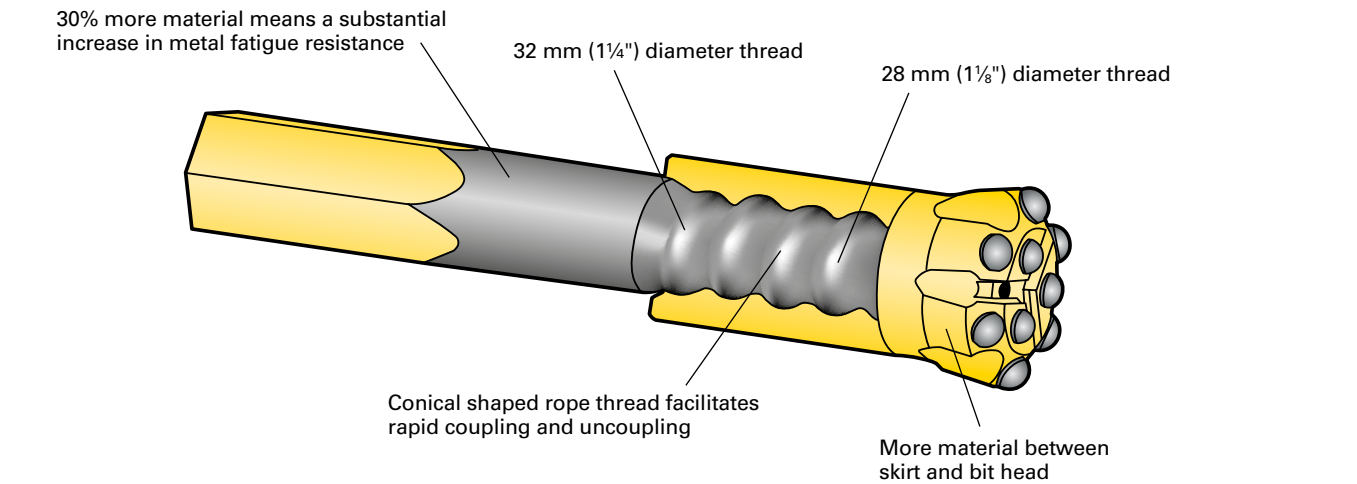
Couplings



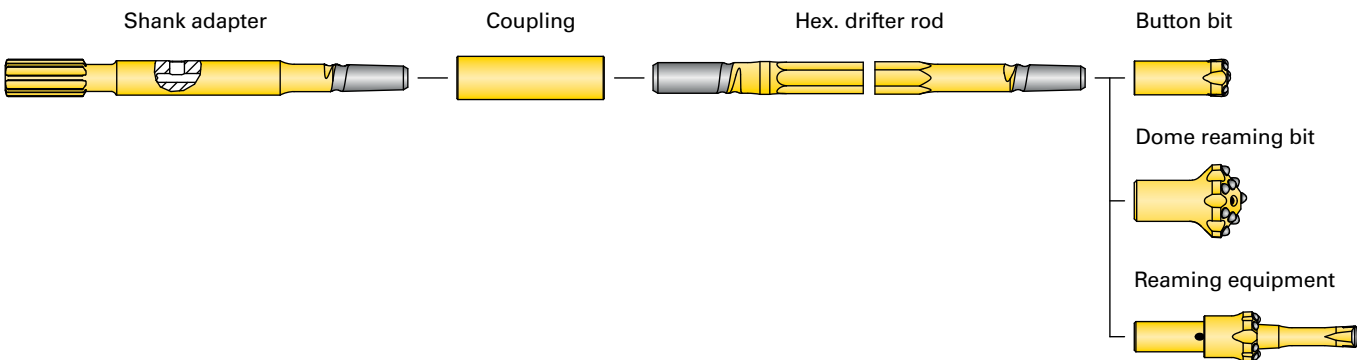
Full bridge -57.

Thread diameter		Diameter		Length		Product No.	Product code	Weight approx. kg
mm	inch	mm	inch	mm	inch			
R32	1 1/4	44	1 23/32	150	5 7/8	90515731	303-0044,10	0,9
R32	1 1/4	44	1 23/32	160	6 5/16	90515732	303-0044-57,10	1,0
R38	1 1/2	55	2 5/32	170	6 3/4	90515733	304-0055,10	1,7
R38	1 1/2	55	2 5/32	180	7 1/8	90515734	304-0055-57,10	2,0

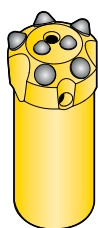
Magnum SR32 thread system



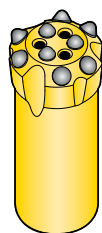
Magnum SR32 drill string



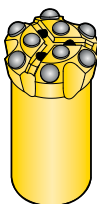
Drill bits



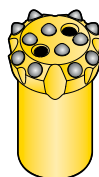
-5xxx-27-67



-5xxx-37-67



-6051



-5xxx-67

Please note text on page 26 about finished hole size.

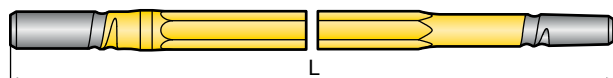
Diameter		Product No.	Product code	No. of buttons	Buttons × button diameter (mm)		Gauge buttons angle°	Flushing hole		Weight approx. kg
mm	inch				Gauge	Centre		Side	Centre	
BUTTON BIT - Spherical buttons										
51	2	90514503	126-6051,49-20	9	6×10	3×9	35°	–	3	0,9
BUTTON BIT - Ballistic buttons										
38	1½	90514501	126-5038-27-67,39-20	7	5×9	2×7	40°	1	1	0,5
41	1⅝	90516483	126-5041-37-67,39-20	9	6×9	3×7	40°	–	3	0,5
43	1⅞ ₁₆	90516484	126-5043-37-67,39-20	9	6×9	3×7	40°	–	3	0,6
45	1¾	90514953	126-5045-37-67,39-20	9	6×9	3×8	40°	1	3	0,7
48	1⅞	90515721	126-5048-37-67,39-20	9	6×10	3×9	40°	1	3	0,9
64	2½	90514954	126-5064-67,49-20	12	8×10	4×10	40°	–	2	1,6

Drifter rods

T38 (1½")

Hex. 32 mm (1¼")

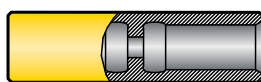
SR32 (1¼")



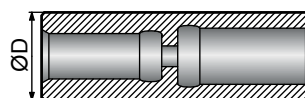
Fully carburized. Rod section 35,8 mm. 
Flushing hole diameter 9,6 mm.

Length (L)		Product No.	Product code	Weight approx. kg
mm	foot/inch			
3090	10'1⅝"	90514504	226-0531-35-C,02	19,7
3700	12'1⅝"	90514727	226-0537-35-C,02	23,6
4300	14'1¼"	90514505	226-0543-35-C,02	27,5
4920	16'1¾"	90516252	226-0549-35-C,02	31,5

Couplings



Full bridge -57.

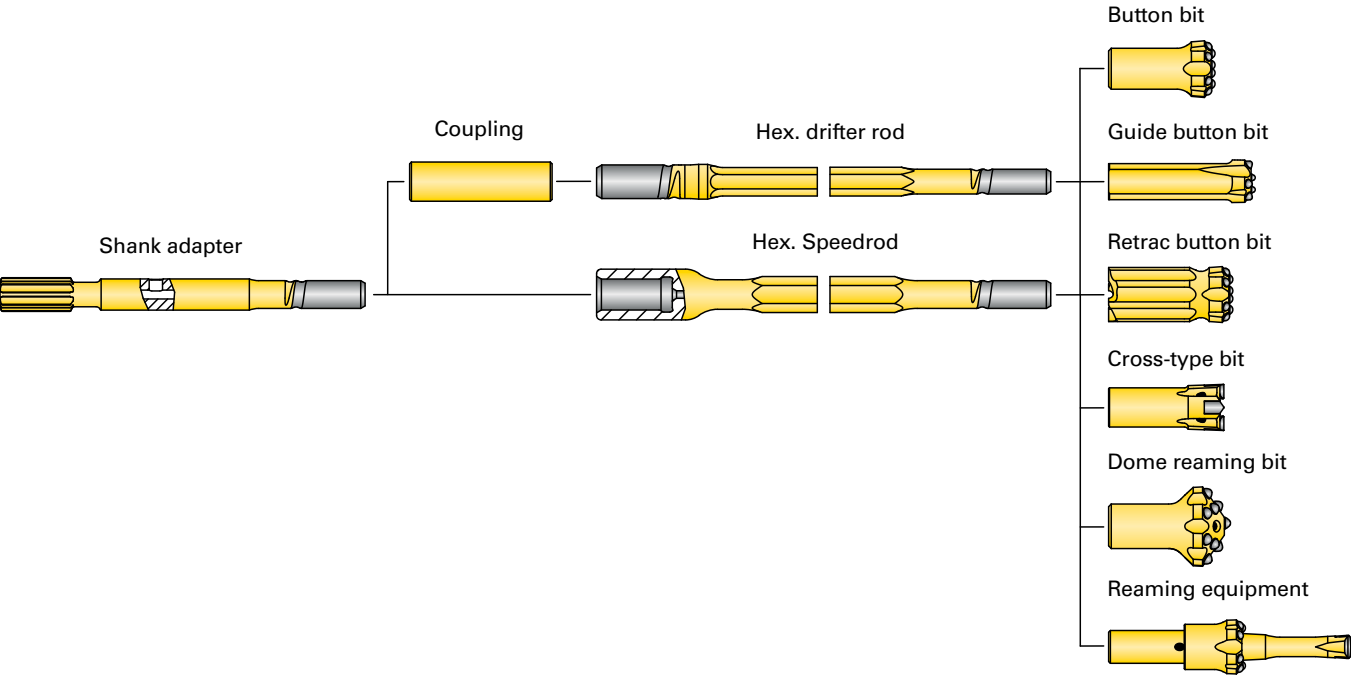


Cross over coupling.

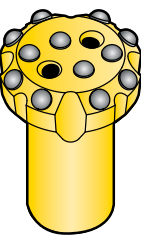
Thread diameter		Diameter (D)		Length		Product No.	Product code	Weight approx. kg
mm	inch	mm	inch	mm	inch			
T38	1½	52	2⅛	190	7½	90515736	335-0052,10*	1,7
T38	1½	55	2⅝	190	7½	90515737	335-0055-10	1,9
T38	1½	55	2⅝	190	7½	90515738	335-0055-57,10	2,0
R38-T38	1½-1½	55	2⅝	180	7⅞	90515750	304-1055-35,10**	1,8
T38-TC42	1¼-1½	57	2¼	175	6⅞	90516551	335-1057-71,10**	2,0

* Recommended for high frequency drifters.

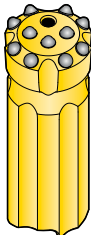
** Cross over coupling.



Drill bits



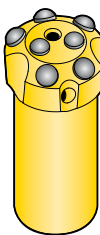
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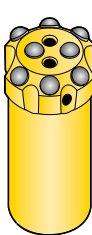
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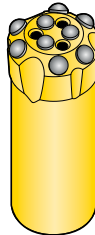
-5xxx-20



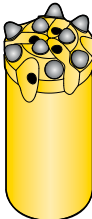
-5xxx-27



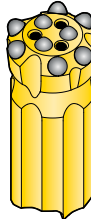
-5xxx-34



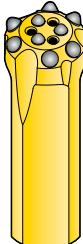
-5xxx-37



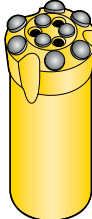
-5xxx-37-66



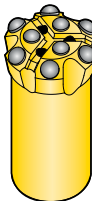
5xxx-37-45-67



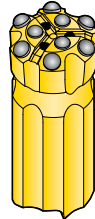
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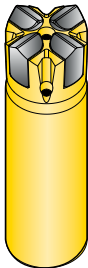
-5xxx-39



-6051



-6xxx-45



Cross-type bit



Cross-type bit, retractor

Please note text on page 26 about finished hole size.

Drill bits

Diameter		Product No.	Product code	No. of buttons	Buttons × button diameter (mm)		Gauge buttons angle°	Flushing hole		Weight approx. kg
mm	inch				Gauge	Centre		Side	Centre	
BUTTON BIT - Spherical buttons										
41	1⅝	90505171	103-5041-27,39-20	7	5×9	2×8	35°	1	1	0,9
43	1⅞ ₁₆	90505164	103-5043-27,39-20	7	5×9	2×9	35°	2	1	0,7
43	1⅞ ₁₆	90514717	103-5043-37,39-20	9	6×9	3×8	40°	1	3	0,8
45	1¾	90504373	103-5045-27,39-20	7	5×11	2×8	30°	2	1	0,8
45	1¾	90509457	103-5045-37,39-20	9	6×9	3×8	35°	1	3	0,8
45	1¾	90504401	103-5045-39,39-20	9	6×10	3×8	30°	1	3	0,8
48	1⅞ ₈	90504374	103-5048-27,39-20	7	5×11	2×9	35°	2	1	0,8
48	1⅞ ₈	90509461	103-5048-37,39-20	9	6×10	3×8	40°	1	3	0,9
51	2	90510450	103-5051,39-20	7	5×11	2×11	35°	1	1	0,8
51	2	90510451	103-5051-34,39-20	8	6×10	2×10	40°	2	2	1,0
51	2	90509465	103-5051-37,39-20	9	6×10	3×9	40°	1	3	0,9
51	2	90510302	103-6051,39-20	9	6×10	3×9	30°	–	3	1,0
51	2	90510308	103-6051-45,39-20	9	6×10	3×9	30°	–	3	1,1
57	2¼	90510453	103-5057-20,39-20	9	6×11	3×9	35°	–	3	1,1
64	2½	90510303	103-5064,49-20	12	8×10	4 ×10	40°	–	2	1,5
64	2½	90510381	103-5064-45,49-20	12	8×10	4 ×10	40°	–	2	2,2
64	2½	90510328	103-6064,49-20	10	6×11	3×10, 1×10	35°	–	3	1,5
64	2½	90510364	103-6064-45,49-20	10	6×11	3×10, 1×10	35°	–	3	2,2
76	3	90510353	103-5076,49-20	12	8×11	4×11	40°	–	2	1,8
76	3	90510504	103-6076-45,49-20	13	8×11	4×11, 1×11	35°	1	4	3,4
BUTTON BIT - Ballistic buttons										
41	1⅝	90505172	103-5041-27-67,39-20	7	5×9	2×8	40°	1	1	0,7
41	1⅝	90510744	103-5041-34-67,39-20	8	6×8	2×8	40°	2	2	0,6
43	1⅞ ₁₆	90510769	103-5043-37-67,39-20	9	6×8	3×8	40°	1	3	0,7
45	1¾	90509460	103-5045-37-67,39-20	9	6×9	3×8	40°	1	3	0,8
45	1¾	90514540	103-5045-39-67,39-20	9	6×10	3×8	35°	1	3	0,8
48	1⅞ ₈	90509464	103-5048-37-67,39-20	9	6×10	3×9	40°	1	3	0,8
48	1⅞ ₈	90509463	103-5048-37-30-67,39-20	9	6×10	3×8	25°	1	3	1,0
51	2	90509466	103-5051-37-67,39-20	9	6×10	3×9	40°	1	3	0,9
51	2	90510836	103-5051-37-45-67,39-20	9	6×10	3×9	40°	1	3	1,1
51	2	90514764	103-5051-39-67,39-20	9	6×10	3×10	35°	–	3	1,0
51	2	90514633	103-6051-45-67,39-20	9	6×10	3×9	35°	–	3	1,2
54	2⅞ ₈	90510795	103-5054-24-45-67,39-20	11	8×9	3×9	35°	2	1	1,8
54	2⅞ ₈	90509481	103-5054-37-67,39-20	9	6×10	3×9	40°	1	3	1,0
57	2¼	90510454	103-5057-20-67,39-20	9	6×11	3×9	35°	–	3	1,0
64	2½	90510327	103-5064-67,49-20	12	8×10	4×10	40°	–	2	1,4
64	2½	90510414	103-6064-45-67,49-20	10	6×11	3×10, 1×10	35°	–	3	2,2

Cont. next page

Drill bits

Diameter		Product No.	Product code	No. of buttons	Buttons × button diameter (mm)		Gauge buttons angle°	Flushing hole		Weight approx. kg
mm	inch				Gauge	Centre		Side	Centre	
BUTTON BIT - Full-ballistic buttons (soft rock bit)										
45	1¾	90514771	103-5045-34-66,39-20	8	6×9	2×9	40°	–	2	0,5
45	1¾	90514111	103-5045-37-66,39-20	9	6×9	3×8	40°	1	3	0,8
48	1⅞	90514714	103-5048-34-66,39-20	8	6×9	2×9	40°	–	2	0,8
48	1⅞	90514135	103-5048-37-66,39-20	9	6×9	3×9	40°	1	3	0,8
51	2	90514136	103-5051-37-66,39-20	9	6×10	3×9	40°	1	3	0,8
57	2¼	90514440	103-5057-37-66,39-20	9	6×10	3×10	40°	1	3	1,1
CROSS-TYPE BIT				Insert						
				Width (mm)		Height (mm)				
43	1 ¹¹ / ₁₆	90514246	103-7043-44,20-17	11,1		20,0		2	1	0,8
45	1¾	90514235	103-7045-44,20-17	11,1		20,0		4	1	0,8
48	1⅞	90510658	103-7048-38,02-17	14,0		22,0		4	1	1,1
51	2	90514248	103-7051-38,02-17	14,0		22,0		4	1	1,2
51	2	90510551	103-7051-38-45,02-17	14,0		22,0		4	1	1,7
57	2¼	90514239	103-7057,02-17	10,3		19,5		4	1	1,3
64	2½	90001719	103-7064,08-17	10,3		19,5		2	1	1,4

Drifter rods

R/T38 (1½")

Hex. 32 mm (1¼")

R32 (1¼")



Fully carburized. Rod section 35,8 mm. 
Flushing hole diameter 9,6 mm.

Length (L)		Product No.	Product code		Weight approx. kg
mm	foot/inch		R38 thread	T38 thread	
2400	7'10½"	90590025	203-0524-04-C,02		15,3
2400	7'10½"	90515439		203-0524-35-C,02	15,3
2700	8'10¼"	90509478	203-0527-04-C,02		17,2
3090	10'1⅝"	90003070	203-0531-04-C,02		19,7
3090	10'1⅝"	90500107		203-0531-35-C,02	19,8
3400	11'1⅞"	90505189		203-0534-35-C,02	22,0
3700	12'1⅝"	90002720	203-0537-04-C,02		23,5
3700	12'1⅝"	90590043		203-0537-35-C,02	23,6
4000	13'1½"	90531063	203-0540-04-C,02		26,0
4310	14'1⅝"	90002693	203-0543-04-C,02		27,4
4310	14'1⅝"	90500213		203-0543-35-C,02	27,3
4920	16'1¾"	90002694	203-0549-04-C,02		31,4
4920	16'1¾"	90500046		203-0549-35-C,02	31,3
5530	18'1¾"	90002695	203-0555-04-C,02		34,8
5530	18'1¾"	90500486		203-0555-35-C,02	34,8

Drifter rods

R38 (1½") Hex. 32 mm (1¼") R32 (1¼")



Double thread, fully carburized. Rod section 35,8 mm. 
Flushing hole diameter 9,6 mm.

Length (L)		Product No.	Product code		Weight approx. kg
mm	foot/inch		R38 thread	T38 thread	
4310	14'1½"	90002718	203-0543-04-95-C,02		27,5

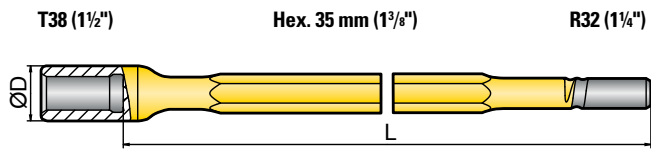
R/T38 (1½") Hex. 35 mm (1⅜") R32 (1¼")



Fully carburized. Rod section 39,6 mm. 
Flushing hole diameter 9,5 mm.

Length (L)		Product No.	Product code		Weight approx. kg
mm	foot/inch		R38 thread	T38 thread	
3090	10'1½"	90502129	203-0631-04-C,02		23,9
3090	10'1½"	90504392		203-0631-35-C,02	23,8
3600	11'9¾"	90510484		203-0636-35-C,02	28,3
3700	12'1½"	90501015	203-0637-04-C,02		28,6
3700	12'1½"	90502308		203-0637-35-C,02	28,6
4000	13'1½"	90502995	203-0640-04-C,02		31,2
4310	14'1½"	90002966	203-0643-04-C,02		33,7
4310	14'1½"	90500862		203-0643-35-C,02	33,6
4500	14'9½"	90504182	203-0645-04-C,02		34,7
4500	14'9½"	90504966		203-0645-35-C,02	34,7
4920	16'1¾"	90002964	203-0649-04-C,02		38,2
4920	16'1¾"	90502235		203-0649-35-C,02	38,3
5530	18'1¾"	90002965	203-0655-04-C,02		43,1
5530	18'1¾"	90502616		203-0655-35-C,02	43,2
6100	20'1½"	90503854		203-0661-35-C,02	47,7
6400	21'	90504967		203-0664-35-C,02	49,3

Speedrods



Fully carburized. D = 57 mm. Rod section 39,6 mm.
Flushing hole diameter 9,5 mm.

Length (L)		Product No.	Product code	Weight approx. kg
mm	foot/inch			
3700	12'1½"	90503939	203-0637-35-MF-C,02	29,8
4310	14'1½"	90503663	203-0643-35-MF-C,02	34,7
4920	16'1¾"	90503563	203-0649-35-MF-C,02	39,6
5530	18'1¾"	90503940	203-0655-35-MF-C,02	43,0
6400	21'	90504708	203-0664-35-MF-C,02	51,0

Couplings



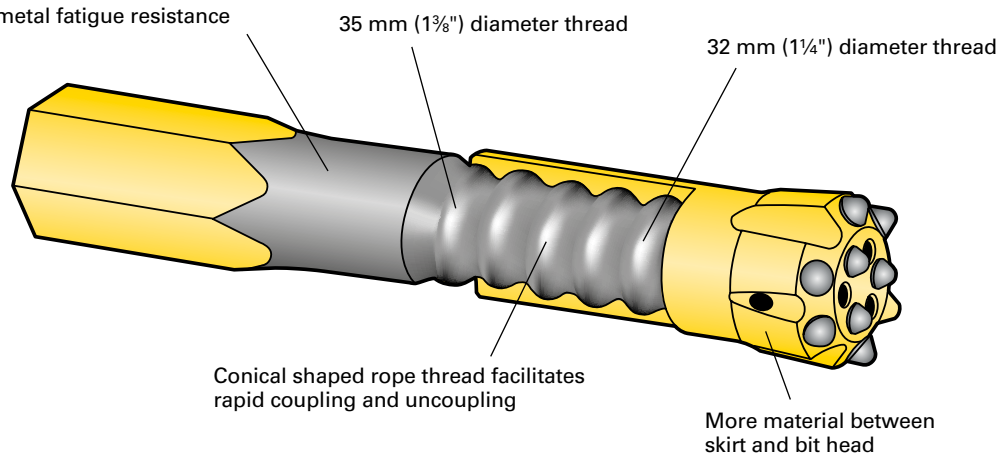
Full bridge -57.

Thread diameter		Diameter		Length		Product No.	Product code		Weight approx. kg
mm	inch	mm	inch	mm	inch		R38 thread	T38 thread	
T38	1½	52	2⅛	190	7½	90515736		335-0052,10*	1,7
R38	1½	55	2⅝	170	6¾	90515733	304-0055,10		1,7
T38	1½	55	2⅝	190	7½	90515737		335-0055,10	1,9
R38	1½	55	2⅝	180	7⅛	90515734	304-0055-57,10		2,0
T38	1½	55	2⅝	180	7⅛	90515738		335-0055-57,10	2,0

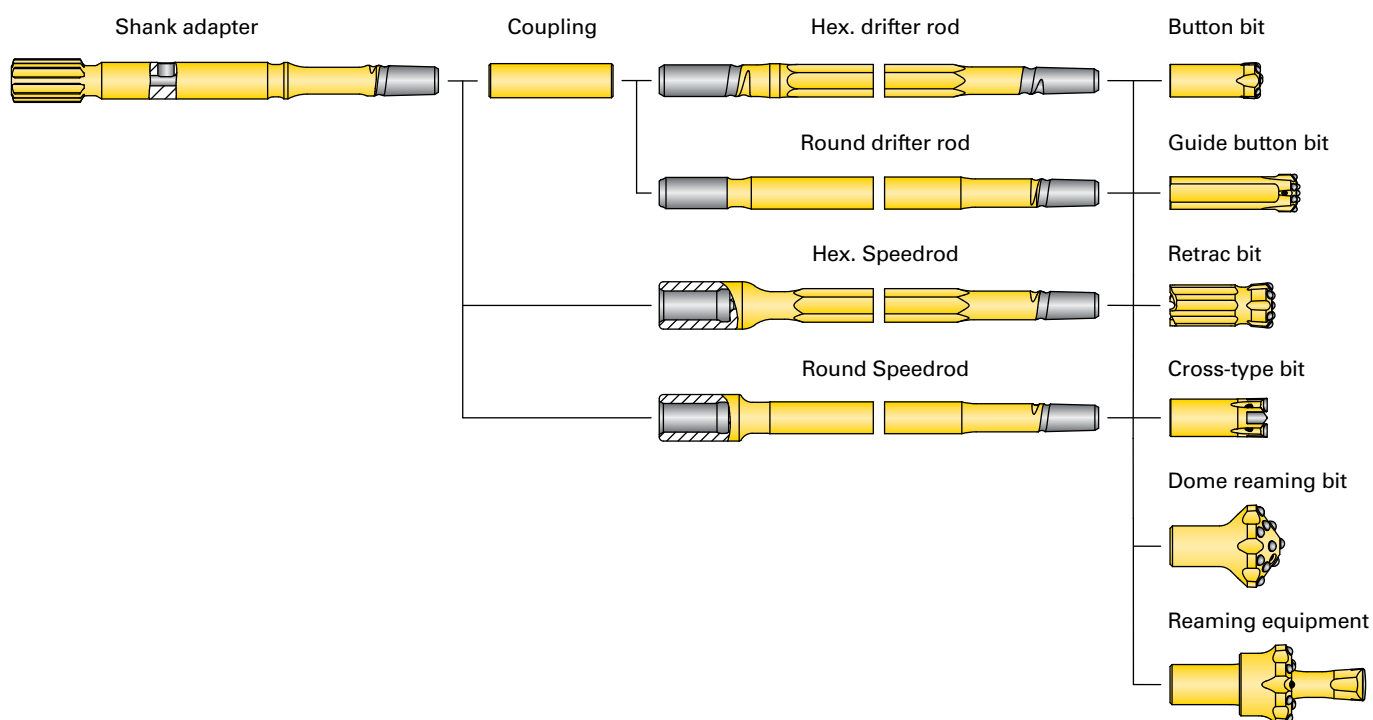
* Recommended for high frequency drifters.

Magnum SR35 thread system

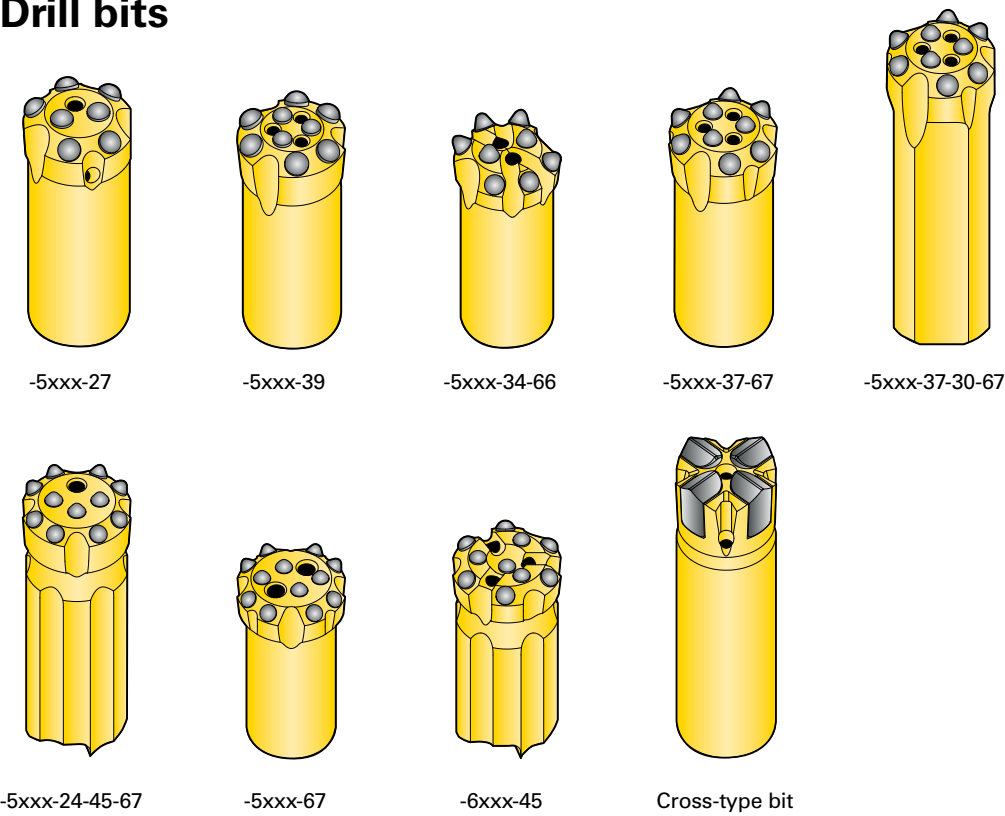
30% more material means a substantial increase in metal fatigue resistance



Magnum SR35 drill string



Drill bits



Please note text on page 26 about finished hole size.

Drill bits

Diameter		Product No.	Product code	No. of buttons	Buttons × button diameter (mm)		Gauge buttons angle°	Flushing hole		Weight approx. kg
mm	inch				Gauge	Centre		Side	Centre	
BUTTON BIT - Spherical buttons										
43	1 ¹¹ / ₁₆	90513844	128-5043-27,39-20	7	5×9	2×9	35°	2	1	0,7
45	1 ³ / ₄	90513841	128-5045-39,39-20	9	6×10	3×8	30°	1	3	0,8
48	1 ⁷ / ₈	90514150	128-5048-39,39-20	9	6×11	3×8	35°	1	3	0,9
51	2	90514649	128-5051-39,39-20	9	6×11	3×9	35°	1	3	1,0
54	2 ¹ / ₈	90516638	128-6054-45,39-20	9	6×10	3×9	40°	1	3	1,3
BUTTON BIT - Ballistic buttons										
43	1 ¹¹ / ₁₆	90515576	128-5043-27-67,39-20	7	5×9	2×9	35°	2	1	0,7
43	1 ¹¹ / ₁₆	90516546	128-5043-37-67,39-20	9	6×8	3×8	40°	1	3	0,7
43	1 ¹¹ / ₁₆	90516547	128-5043-39-67,39-20	9	6×9	3×8	35°	–	3	0,7
45	1 ³ / ₄	90513839	128-5045-37-67,39-20	9	6×9	3×8	40°	1	3	0,7
45	1 ³ / ₄	90513846	128-5045-37-30-67,39-20	9	6×9	3×8	40°	1	3	1,0
45	1 ³ / ₄	90514720	128-5045-39-67,39-20	9	6×10	3×8	35°	1	3	0,8
48	1 ⁷ / ₈	90513843	128-5048-37-67,39-20	9	6×10	3×9	40°	1	3	0,8
51	2	90514595	128-5051-24-45-67,39-20	11	8×9	3×9	35°	2	1	1,6
51	2	90513842	128-5051-37-67,39-20	9	6×10	3×9	40°	1	3	0,9
54	2 ¹ / ₈	90514220	128-5054-24-45-67,39-20*	11	8×9	3×9	35°	2	1	1,8
54	2 ¹ / ₈	90513871	128-5054-37-67,39-20	9	6×11	3×10	35°	1	3	1,0
54	2 ¹ / ₈	90516569	128-6054-45-67,39-20	9	6×10	3×9	40°	1	3	1,3
64	2 ¹ / ₂	90513870	128-5064-67,49-20	12	8×10	4×10	40°	–	2	1,6
BUTTON BIT - Full-ballistic buttons (soft rock bit)										
45	1 ³ / ₄	90514640	128-5045-34-66,39-20	8	6×9	2×9	40°	–	2	0,7
CROSS-TYPE BIT				Insert						
				Width (mm)		Height (mm)				
48	1 ⁷ / ₈	90513838	128-7048-49,02-16	14,0		25,0		4	1	1,0

* Reversed flushing.

Drifter rods

T38 (1¹/₂"

Hex. 35 mm (1³/₈"

SR35 (1³/₈"



Fully carburized. Rod section 39,6 mm.
Flushing hole diameter 9,5 mm.



Length (L)		Product No.	Product code	Weight approx. kg
mm	foot/inch			
2670	8'9 ¹ / ₈ "	90514159	228-0627-35-91-C,02	21,0
3150	10'4"	90514160	228-0632-35-91-C,02	24,5
3700	12'1 ⁵ / ₈ "	90513856	228-0637-35-C,02	28,8
4310	14'1 ⁵ / ₈ "	90513858	228-0643-35-C,02	33,7
4920	16'1 ³ / ₄ "	90513860	228-0649-35-C,02	38,4
5530	18'1 ³ / ₄ "	90513861	228-0655-35-C,02	42,4
6400	21'	90514140	228-0664-35-C,02	49,7

T38 (1¹/₂"

Round 39 mm (1⁷/₃₂"

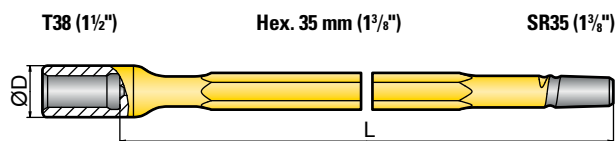
SR35 (1³/₈"



Fully carburized.
Flushing hole diameter 14,5 mm.

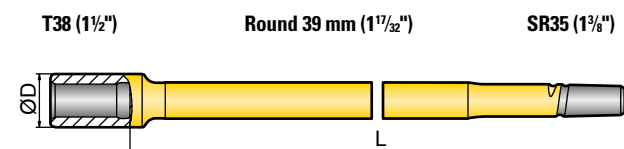
Length (L)		Product No.	Product code	Weight approx. kg
mm	foot/inch			
4310	14'1 ⁵ / ₈ "	90003570	228-4743-35-C,02	34,1
4920	16'1 ³ / ₄ "	90003571	228-4749-35-C,02	39,0
5530	18'1 ³ / ₄ "	90003572	228-4755-35-C,02	43,9
6100	20'1 ¹ / ₈ "	90003573	228-4761-35-C,02	48,4
6400	21'	90003574	228-4764-35-C,02	51,0

Speedrods



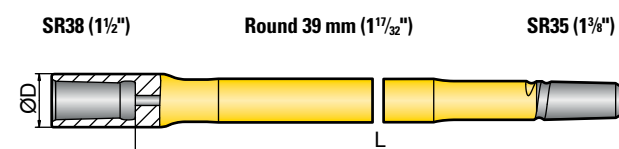
Fully carburized. D = 57 mm. Rod section 39,6 mm. 
Flushing hole diameter 9,5 mm.

Length (L)		Product No.	Product code	Weight approx. kg
mm	foot/inch			
3700	12'1 ⁵ / ₈ "	90514641	228-0637-35-MF-C,02	28,9
4310	14'1 ⁵ / ₈ "	90514124	228-0643-35-MF-C,02	34,1
4920	16'1 ³ / ₄ "	90514280	228-0649-35-MF-C,02	38,8



Fully carburized. D = 57 mm.
Flushing hole diameter 14,5 mm.

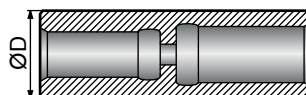
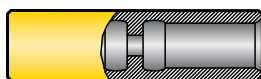
Length (L)		Product No.	Product code	Weight approx. kg
mm	foot/inch			
5530	18'1 ³ / ₄ "	90003575	228-4755-35-MF-C,02	45,5



Fully carburized. D = 48 mm.
Flushing hole diameter 14,5 mm.

Length (L)		Product No.	Product code	Weight approx. kg
mm	foot/inch			
4300	14'1 ¹ / ₄ "	90003565	228-4743-27-69-MF-C,02	35,0
4920	16'1 ³ / ₄ "	90003566	228-4749-27-69-MF-C,02	40,0
5530	18'1 ³ / ₄ "	90003568	228-4755-27-69-MF-C,02	44,9
6100	20'	90003567	228-4761-27-69-MF-C,02	49,6
6400	21'	90003569	228-4764-27-69-MF-C,02	52,0

Couplings



Full bridge -57.

Cross over coupling.

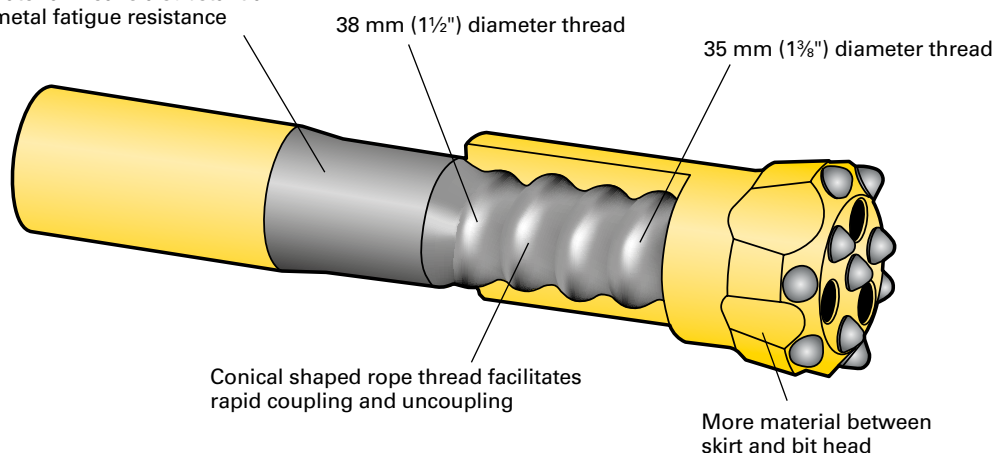
Thread diameter		Diameter (D)		Length		Product No.	Product code		Weight approx. kg
mm	inch	mm	inch	mm	inch		R38 thread	T38 thread	
T38	1½	52	2 ¹ / ₁₆	190	7½	90515736		335-0052,10*	1,7
R38	1½	55	2 ⁵ / ₃₂	170	6¾	90515733	304-0055,10		1,7
T38	1½	55	2 ⁵ / ₃₂	190	7½	90515737		335-0055,10	1,9
R38	1½	55	2 ⁵ / ₃₂	180	7 ¹ / ₈	90515734	304-0055-57,10		2,0
T38	1½	55	2 ⁵ / ₃₂	180	7 ¹ / ₈	90515738		335-0055-57,10	2,0
R38-T38	1½-1½	55	2 ⁵ / ₃₂	180	7 ¹ / ₈	90515750	304-1055-35,10**		1,8
T38-TC42	1½-1 ² / ₃₂	57	2¼	175	6 ⁷ / ₈	90516551		335-1057-71,10**	2,0

* Recommended for high frequency drifters.

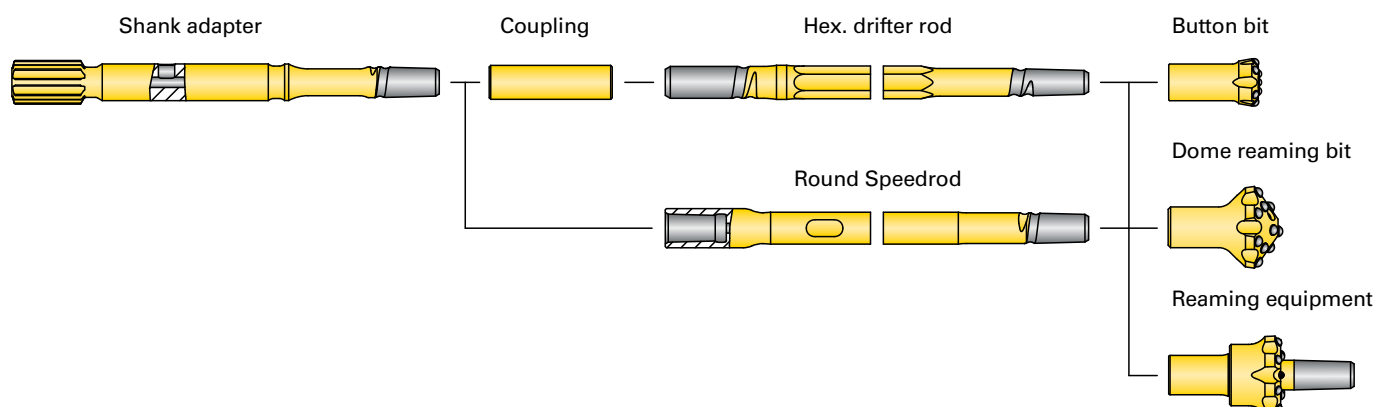
** Cross over coupling.

Magnum SR38 thread system

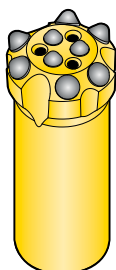
30% more material means a substantial increase in metal fatigue resistance



Magnum SR38 drill string



Drill bits



-5054-37

Please note text on page 26 about finished hole size.

Diameter		Product No.	Product code	No. of buttons	Buttons × button diameter (mm)		Buttons angle°		Flushing hole		Weight approx. kg
mm	inch				Gauge	Centre	Gauge	Centre	Side	Centre	
BUTTON BIT - Spherical buttons											
54	2 ¹ / ₈	90515702	127-5054-37,49-20	9	6×10	3×9	40°	–	1	3	0.9

Drifter rods

T38 (1½") Hex. 38 mm (1½") SR38 (1½")



Fully carburized. Rod section 43,0 mm.
Flushing hole diameter 16,0 mm.

Length (L)		Product No.	Product code	Weight approx. kg
mm	foot/inch			
4920	16'1¾"	90516014	227-0749-35-C,02	41,8
5500	18'1½"	90515787	227-0755-35-C,02	46,7
6100	20'	90516015	227-0761-35-C,02	51,8

Speedrods

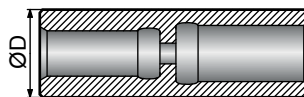
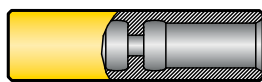
SR38 (1½") Round 39 mm (1⅞") SR38 (1½")



Fully carburized. D = 48 mm.
Flushing hole diameter 14,5 mm.

Length (L)		Product No.	Product code	Weight approx. kg
mm	foot/inch			
1830	6'	90515703	227-4718-69-MF-C,02	15,3
3050	10'	90514774	227-4731-69-MF-C,02	25,0
4920	16'1¾"	90516624	227-4749-69-MF-C,02	40,3

Couplings



Full bridge -57.

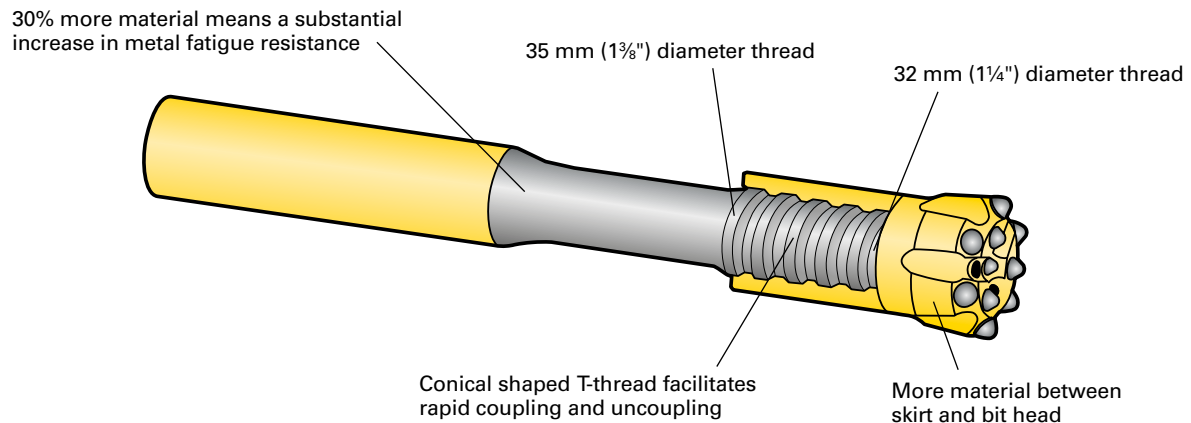
Cross over coupling.

Thread diameter		Diameter (D)		Length		Product No.	Product code	Weight approx. kg
mm	inch	mm	inch	mm	inch			
T38	1½	52	2⅞	190	7½	90515736	335-0052,10*	1,7
T38	1½	55	2⅞	190	7½	90515737	335-0055,10	1,9
T38	1½	55	2⅞	180	7⅞	90515738	335-0055-57,10	2,0
R38-T38	1½-1½	55	2⅞	180	7⅞	90515750	304-1055-35,10**	1,8
T38-TC42	1½-1½	57	2¼	175	6⅞	90516551	335-1057-71,10**	2,0

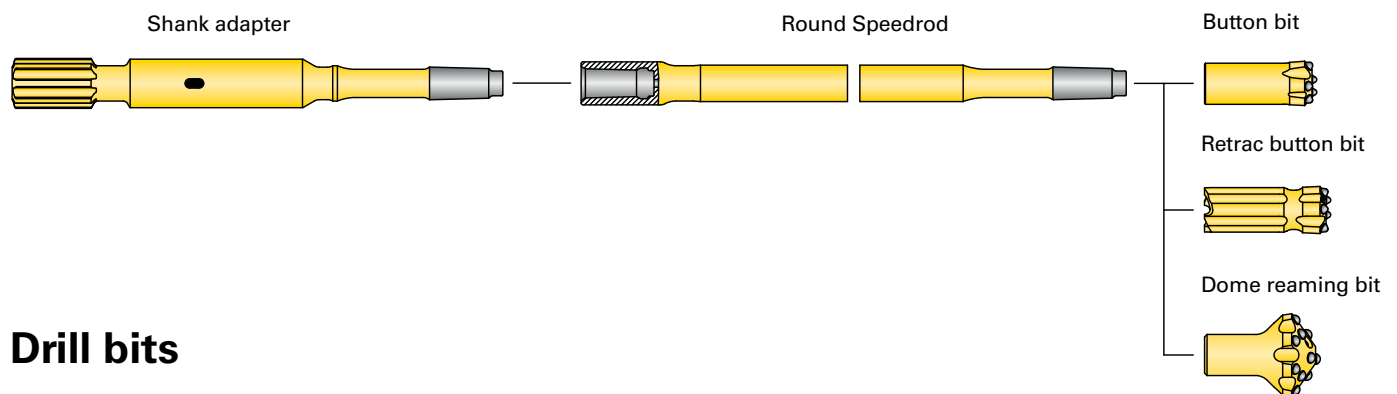
* Recommended for high frequency drifters.

** Cross over coupling.

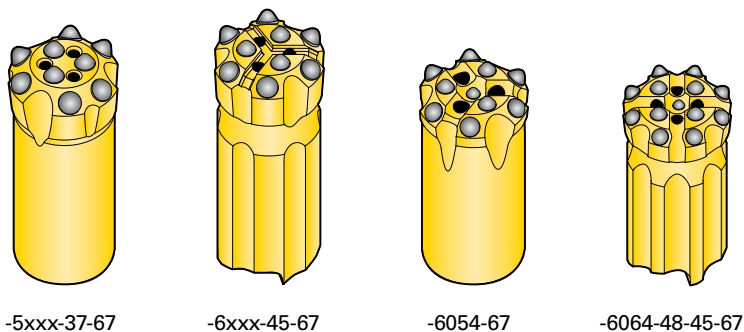
TC35 thread system



TC35 drill string



Drill bits

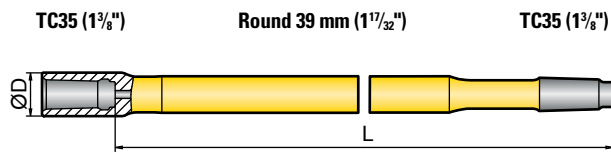


Please note text on page 26 about finished hole size.

Diameter		Product No.	Product code	No. of buttons	Buttons × button diameter (mm)		Gauge buttons angle°	Flushing hole		Weight approx. kg
mm	inch				Gauge	Centre		Side	Centre	
BUTTON BIT - Ballistic buttons										
48	1 ⁷ / ₈	90516336	169-5048-37-67,39-20	9	6×10	3×9	40°	1	3	1,0
51	2	90003692	169-5051-37-67,39-20	9	6×10	3×9	40°	1	3	1,0
51	2	90516337	169-6051-45-67,49-20	9	6×10	3×9	35°	–	3	1,2
54	2 ¹ / ₈	90516564	169-6054-67,39-20	9	6×10	3×9, 1×7	40°	–	3	1,0
54	2 ¹ / ₈	90516423	169-6054-45-67,49-20	9	6×11	3×9	40°	–	3	1,3
57	2 ¹ / ₄	90516536	169-6057-45-67,39-20	9	6×11	3×9	40°	–	3	1,5
64	2 ¹ / ₂	90516424	169-6064-48-45-67,49-20	13	8×10	4×10, 1×7	35°	–	4	2,0

* TC35 is used for cablebolting and production drilling, hole range 48-64 mm.

Speedrods



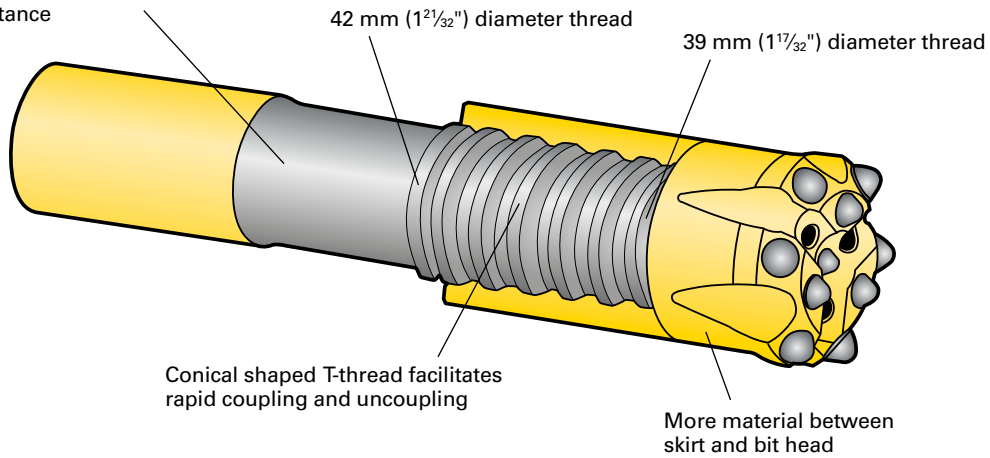
Fully carburized. D = 46 mm.
Flushing hole diameter 14,5 mm.

Length (L)		Product No.	Product code	Weight approx. kg
mm	foot			
1220	4	90003595	269-4712-MF-C,02	9,8
1525	5	90003647	269-4715-MF-C,02	12,3
1830	6	90003576	269-4718-MF-C,02	14,9
2435	8	90003646	269-4724-MF-C,02	19,7
3050	10	90003577	269-4731-MF-C,02	24,7
3660	12	90003578	269-4737-MF-C,02	29,6
4270	14	90003579	269-4743-MF-C,02	34,6

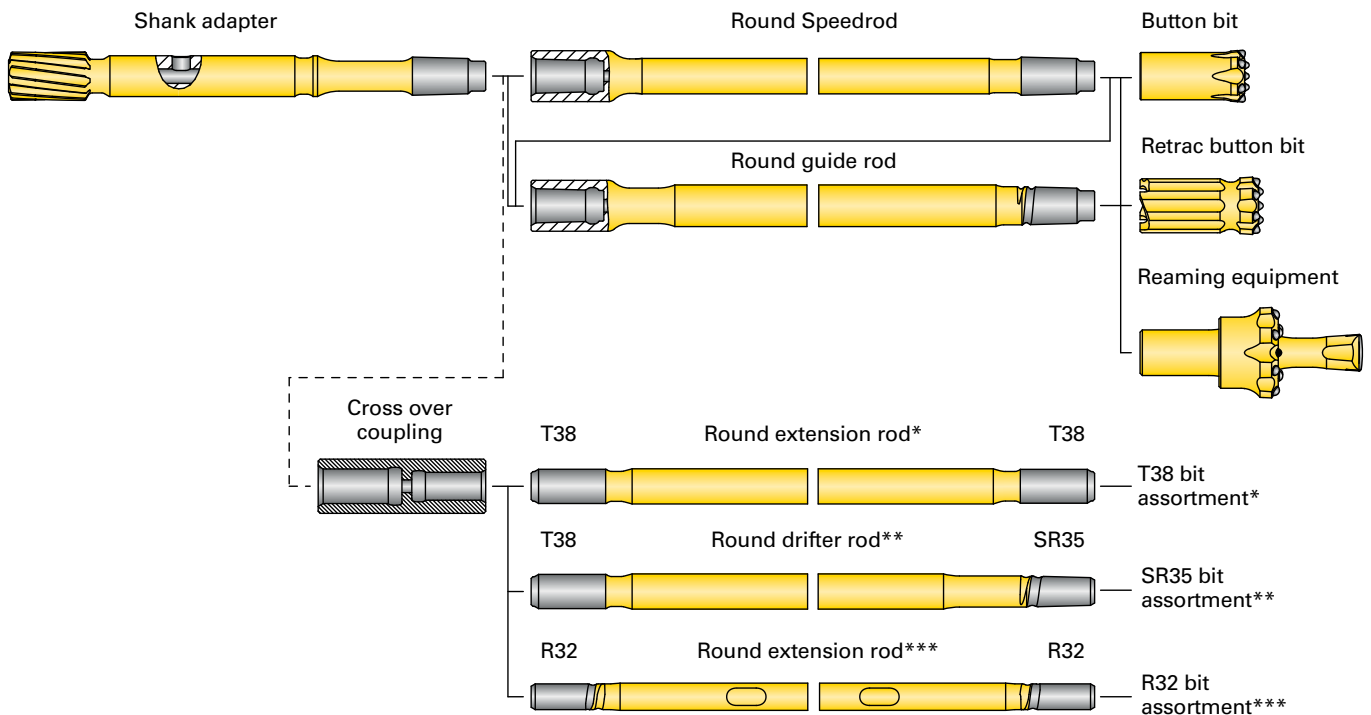
* TC35 is used for cablebolting and production drilling, hole range 48-64 mm.

TC42 thread system

20-45% more material (depending on model) means a substantial increase in metal fatigue resistance



TC42 drill string



* T38 round extension rods and T38 button bits can be found on page 82 - 84.

** SR35-T38 round drifter rods and SR35 button bits can be found on page 46 - 48.

*** R32 round extension rods can be found on page 78 and R32 button bits can be found on page 40 - 41.