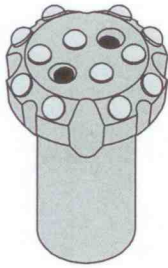


Bench and production drilling

Drill bit design	44
R25 (1")	46
Magnum SR28 (1 ¹ / ₈ ")	49
R28 (1 ¹ / ₈ ")	51
R32 (1 ¹ / ₄ ")	53
TC35 (1 ³ / ₈ ")	57
R/T38 (1 ¹ / ₂ ")	58
T45 (1 ³ / ₄ ")	63
T51 (2")	67
T60 (2 ³ / ₈ ")	70
Soft rock bit	72
Tube drilling system (TDS)	73

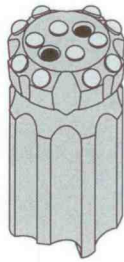
Bench and production drilling

Drill bit design



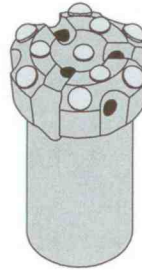
-5076

Flat front bit with spherical buttons. Standard skirt.
Ideal for medium-hard rock when the rock formation causes heavy gauge wear on the bit. Can also be used in very hard and abrasive rock formations.



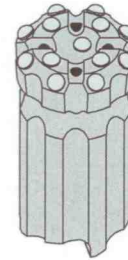
-5076-45

Flat front bit with spherical buttons. Retrac skirt.
To be used in the same applications as -5076 when you have rock formations that also create hole deviations.



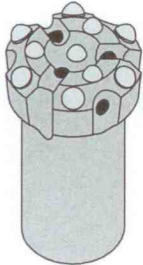
-6076

Drop centre bit with spherical buttons. Standard skirt.
Perfect in slightly more abrasive formations where there is accelerated button wear or in medium to hard rock when ballistic buttons have a tendency to break.



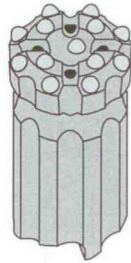
-6076-45

Drop centre bit with spherical buttons. Retrac skirt.
Use in the same applications as -6076 when you have rock formations that also create hole deviations.



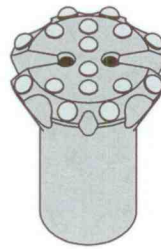
-6076-67

Drop centre bit with ballistic buttons. Standard skirt.
Designed for medium-hard rock. Bits with ballistic buttons perform especially well in non-abrasive or medium abrasive rock formations.



-6076-45-67

Drop centre bit with ballistic buttons. Retrac skirt.
To be used in the same applications as -6076-67 when you have rock formations that also create hole deviations.

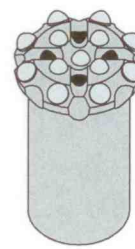


-5127-21

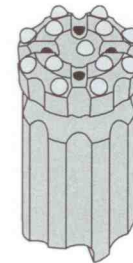
Model -21, a heavy duty bit with larger gauge buttons. Flat or drop centre front. Retrac or standard skirt. Ballistic or spherical buttons.

A new bit design for hard to very hard abrasive rock. The asymmetrical button pattern gives excellent rock crushing. A shorter head and larger clearing angle allow for better flushing of cuttings.

Model -20 is used for the same applications.



-6089-21-67



-6076-21-45-67

- **5** XXX

Flat face button bit

- **6** XXX

Drop centre button bit

-XXXX- **67**

Ballistic buttons

-XXXX- **66**

Full-ballistic buttons

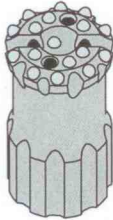
-XXXX- **45**

Retrac skirt

Please observe that all button bits are manufactured oversized 1,0–1,5 mm, meaning that for example a 45,0 mm bit is at least 46,0 mm as new and a 89,0 mm bit 90,0 mm. This is done because of the fast initial wear on button bits.

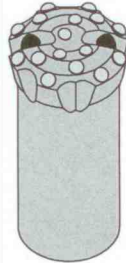
It is important to consider that the drilled hole could vary in size due to drilling conditions, drilling practices and ground formation.

Bench and production drilling



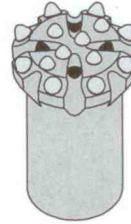
-6089-35-67

Model -35
Guide bit for the TDS tube drilling system.
Model -35 guide bit should be used in rock formations that create hole deviations.



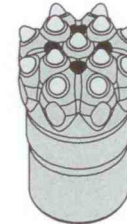
-6102-41

Model -41
Standard bit for T60 system.
This new bit design for T60 system with spherical buttons is created for drilling in very hard and abrasive rock formations. The flushing is concentrated to the front of the bit to get maximal flushing capacity.



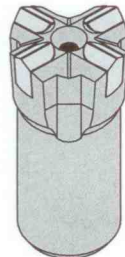
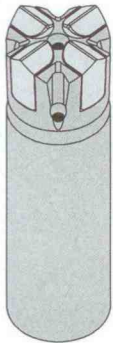
Soft rock bit -66

Full-ballistic button bit.
The two types of full-ballistic button bits, model 5xxx-47-66 and model 6xxx-21-66 are developed specially for drilling in soft formations.
The penetration rate is very fast due to the high button protrusion. Excellent flushing concentrated to the front.



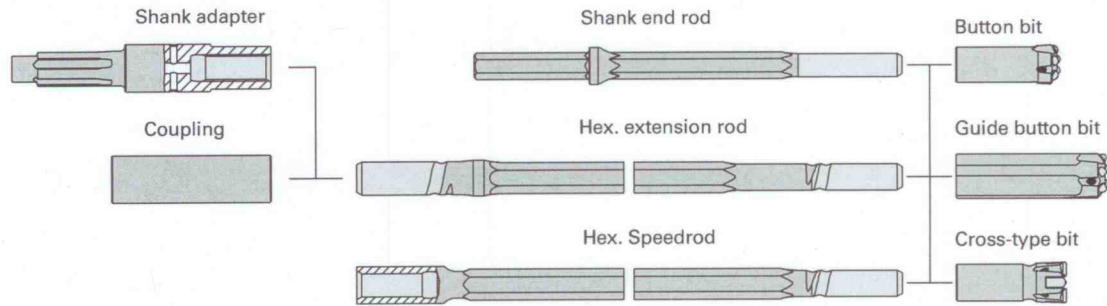
50xx-46-66

TRB Soft rock bit
This new soft rock bit is created for soft rock formations. The bit head has full ballistic buttons with deeper vertical and horizontal flushing grooves, resulting in significantly higher flushing capacity and thereby improved penetration rate.

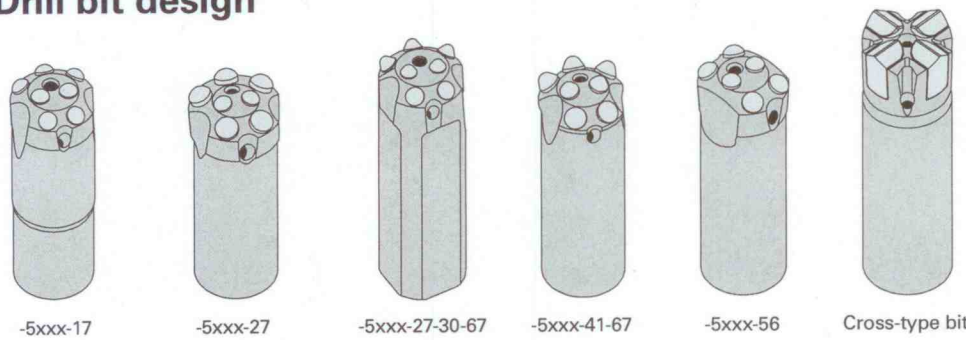


Insert bits
Cross- and X-type bits.

traditional chisel bits across and X-type formations for extremely abrasive rock. Ideal for soft formations that cause snakeskin problems for carbide. Produce straight holes. X-type bits are used for larger hole dimensions.



Drill bit design



Please note text on page 44 re. finished hole size.

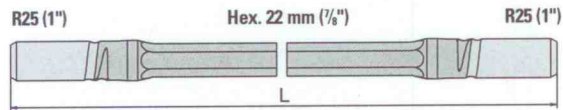
Drill bit

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											
33	1 ¹ / ₁₆	90510448	102-5033-17,39-20	7	5×7	2×7	35°	1	1	0,4	
35	1 ³ / ₁₆	90505181	102-5035-27,39-20	7	5×9	2×7	25°	1	1	0,5	
37	1 ¹ / ₃₂	90505295	102-5037-27,39-20	7	5×9	2×7	30°	1	1	0,6	
38	1 ¹ / ₂	90505179	102-5038-27,39-20	7	5×9	2×7	30°	1	1	0,6	
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	
51	2	90505353	102-5051-27,39-20	7	5×11	2×10	35°	2	1	1,0	
BUTTON BIT - Ballistic buttons											
33	1 ¹ / ₁₆	90510274	102-5033-17-67,39-20	7	5×7	2×7	35°	1	1	0,4	
33	1 ¹ / ₁₆	90514118	102-5033-41-67,39-20	7	5×8	2×7	40°	1	1	0,4	
35	1 ³ / ₁₆	90509723	102-5035-27-67,39-20	7	5×9	2×7	25°	1	1	0,5	
38	1 ¹ / ₂	90505180	102-5038-27-67,39-20	7	5×9	2×7	40°	1	1	0,6	
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	1,0	
CROSS-TYPE BIT				Insert							
				Width (mm)	Height (mm)						
38	1 ¹ / ₂	90514222	102-7038-44,20-17	10,3		19,5	4		1	0,7	
41	1 ⁵ / ₈	90514231	102-7041-44,20-17	11,1		20,0	4		1	0,8	
45	1 ³ / ₄	90510687	102-7045-44,20-17	11,1		20,0	2		1	0,8	
48	1 ⁷ / ₈	90510652	102-7048-38,02-17	14,0		22,0	4		1	1,0	
51	2	90510653	102-7051-38,02-17	14,0		22,0	4		1	1,1	

R25 (1")

Bench and production drilling

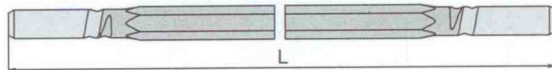
Extension rod



Light equipment, fully carburized. Rod section 24,8 mm.

Length (L)		Product No.	Product code		Weight approx. kg
mm	foot		Fully carburized	Surface hardened	
610	2	90548008	202-0206-C,02		2,0
1220	4	90000524	202-0212-C,02		3,7

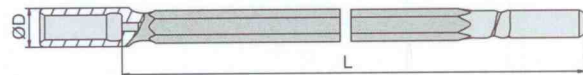
R25 (1") hex. rod



Fully carburized (C) / Surface hardened (SH). Rod section 28,5 mm.

Length (L)		Product No.	Product code		Weight approx. kg
mm	foot/inch		Fully carburized	Surface hardened	
915	3'	90548035	202-0309-C,02		3,3
1000	3'3 ³ / ₈ "	90509525	202-0310-C,02		3,9
1220	4'	90000131	202-0312-C,02		4,5
1525	5'	90000535	202-0315-C,02		5,7
1830	6'	90000132	202-0318-C,02		6,9
2435	8'	90548093	202-0324-C,02		9,2
3050	10'	90000981	202-0331-C,02		11,9
3050	10'	90002576		202-0331-SH,03	11,9

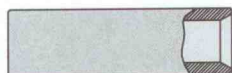
R25 (1") hex. Speedrod



Fully carburized. D = 35 mm. Rod section 28,5 mm.

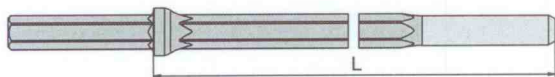
Length (L)		Product No.	Product code		Weight approx. kg
mm	foot		Fully carburized	Surface hardened	
610	2	90505035	202-0306-MF-C,02		2,6
1220	4	90505036	202-0312-MF-C,02		5,0
3050	10	90515578	202-0331-MF-C,02		12,0

Coupling



Thread diameter		Diameter		Length		Product No.	Product code Rope thread	Weight approx. kg
mm	inch	mm	inch	mm	inch			
25	1	33	1 ¹ / ₁₆	150	5 ⁷ / ₈	90515728	302-0033,02	0,5
25	1	35	1 ³ / ₈	150	5 ⁷ / ₈	90515729	302-0035,02	0,7

Shank end rod



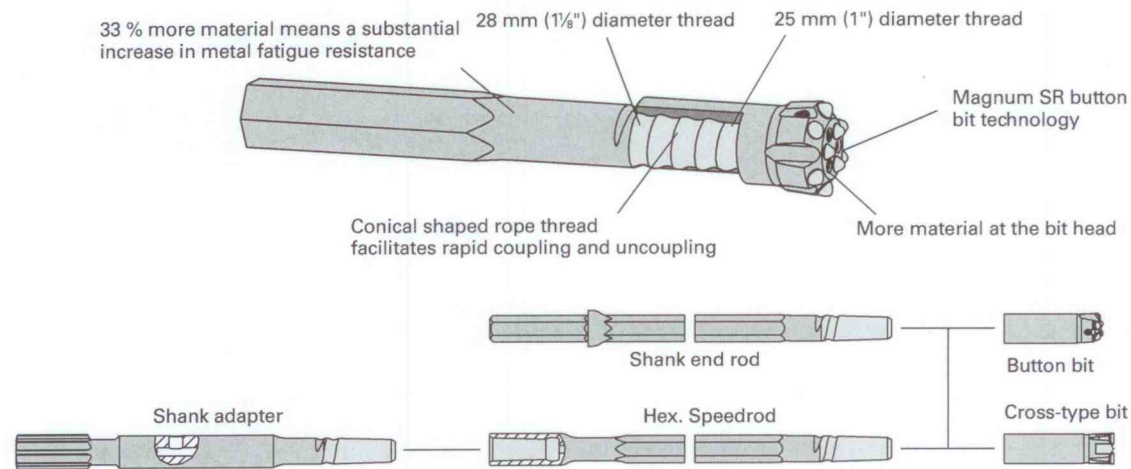
Fully carburized.

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 (4 1/4"). 25 mm (1") thread.						
265	10 3/8"	90000237	502-0103-06-C,02	90002182	9232	1,2
610	2'	90570115	502-0106-06-C,02	90002182	9232	2,3
760	2' 5 7/8"	90510004	502-0108-06-C,02	90002182	9232	2,9
1000	3' 3 3/8"	90531258	502-0110-06-C,02	90002182	9232	3,4
1200	3' 11 1/4"	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
2435	8'	90510009	502-0124-06-C,02	90002182	9232	8,0
3200	10' 6"	90500012	502-0132-06-C,02	90002182	9232	10,4
3700	12' 1 1/8"	90510715	502-0137-06-C,02	90002182	9232	12,0
4000	13' 1 1/2"	90502700	502-0140-06-C,02	90002182	9232	13,0
265	10 3/8"	90505427	502-0103-C,02	-	-	1,2
455	1' 5 7/8"	90513914	502-0104-C,02	-	-	1,5
610	2'	90516356	502-0106-C,02	-	-	2,3
760	2' 5 7/8"	90516357	502-0108-C,02	-	-	2,9
1600	5' 3"	90516358	502-0116-C,02	-	-	5,7
1830	6'	90516360	502-0118-C,02	-	-	6,1
2400	7' 10 1/2"	90513918	502-0124-C,02	-	-	7,9
3200	10' 6"	90513919	502-0132-C,02	-	-	10,4
3600	11' 9 3/4"	90510785	502-0136-C,02	-	-	11,8
4000	13' 1 1/2"	90516359	502-0140-C,02	-	-	12,2
Shank hex. 25 mm (1") × 108 mm (4 1/4"). 25 mm (1") thread.						
255	10"	90000240	502-1203-C,02	90000378	9150-08	1,4
Shank hex. 25 mm (1") × 159 mm (6 1/4"). 25 mm (1") thread.						
255	10"	90000247	502-1503-C,02	90000378	9150-08	1,6
610	2'	90510516	502-1506-C,02	90000378	9150-08	3,1
3200	10' 6"	90000986	502-1532-C,02	90000378	9150-08	13,2

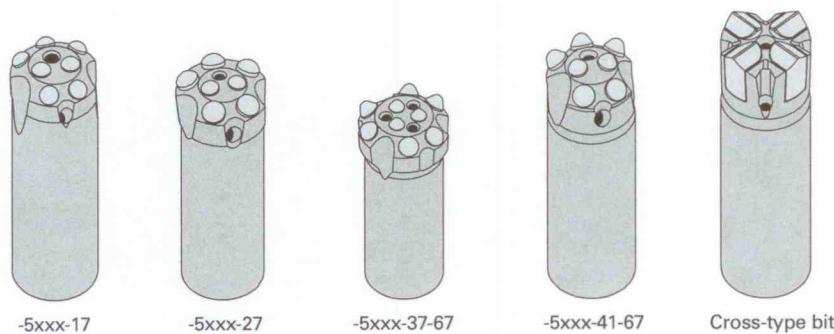
SR28 (1 1/8")

Bench and production drilling

Magnum SR28 thread system



Drill bit design



Please note text on page 44 re. finished hole size.

Drill bit

Diameter		Product No.	Product code	No. of buttons	Buttons x button diameter (mm)		Buttons angle°		Flushing hole		Weight approx. kg
mm	inch				Gauge	Centre	Gauge	Centre	Side	Centre	
BUTTON BIT - Spherical buttons											
33	1 1/16	90514200	125-5033-17,39-20	7	5x7	2x7	35°	-	1	1	0,5
33	1 1/16	90514117	125-5033-41,39-20	7	5x8	2x7	40°	15°	1	1	0,4
35	1 1/8	90514322	125-5035-27,39-20	7	5x9	2x7	25°	10°	1	1	0,5
38	1 1/2	90514282	125-5038-27,39-20	7	5x9	2x7	30°	-	1	1	0,6
41	1 1/8	90515379	125-5041-27,39-20	7	5x9	2x8	40°	-	1	1	0,7
45	1 3/4	90514507	125-5045-27,39-20	7	5x11	2x8	30°	-	2	1	0,8
BUTTON BIT - Ballistic buttons											
33	1 1/16	90514137	125-5033-41-67,39-20	7	5x8	2x7	40°	15°	1	1	0,4
35	1 1/8	90514102	125-5035-27-67,39-20	7	5x9	2x7	25°	10°	1	1	0,4
38	1 1/2	90516334	125-5038-41-67,39-20	7	5x9	2x8	40°	20°	1	1	0,5
41	1 1/8	90516383	125-5041-37-67,39-20	9	6x9	3x7	40°	-	-	3	0,5
45	1 3/4	90516422	125-5045-37-67,39-20	9	6x9	3x8	40°	-	-	3	0,7
CROSS-TYPE BIT				Insert							
				Width (mm)	Height (mm)						
33	1 1/16	90514429	125-7033-44,20-17	10,3		19,5		2	1	0,5	

