

**Now arriving.
A new power.**

Secoroc Powerbit T35, T38, T45, T51, T-WIZ60, ST58 and ST68





Secoroc Powerbit. Built to take on any rock.

We've listened to you, the drillers. You want the drill bits to last longer. You want longer intervals between regrinds. And you want to know which bit is perfect for your rock formation. With Secoroc Powerbit, our all-new tophammer bit range for surface drilling, you'll get that, and more. Much more.

Greatly increased service life

With Powerbit, our development engineers have looked at all aspects of drill bit technology to ensure the longest possible service life. The bit shape is all new. We've used harder and stronger bit body steel. And our new button technology is so effective that it's been patented many times over.

Easy bit selection

The Powerbit product range covers all types of rock - from hard to soft, and from abrasive to non-abrasive. Thorough research, simulation and testing have allowed us to make the Powerbit range much more compact and versatile than before. Approximately 30 % fewer bits now handle all tophammer surface drilling applications - making bit choice so much easier for you.

A top-of-the-line drill string

For years, Epiroc Drilling Tools has been known to have the best shank adapters and drill rods on the market. With Powerbit, we can proudly state that we now also have the best tophammer drill bits around.

Welcome to an unbeatable drill string.





**Long-lasting
power. For you.**

Secoroc Powerbit gives you outstanding power. Power that translates into much better service life. Regardless of rock formation, we expect Powerbit to give you up to 20 % longer service life. On top of that, Powerbit will give you the same, or better, penetration rate compared to the leading bits on the market.



Secoroc Powerbit – it's long-lasting

Our advanced computer simulations, and comprehensive field tests show the same results. Powerbit's performance greatly exceeds expectations. With Powerbit you will get more meters drilled before first regrind, more meters drilled between regrinds, and many more meters drilled at bit discard. This is long-lasting performance you can rely on.

Longer grinding intervals

One of the most important development criteria for Powerbit was to improve service life and reduce the need for constant regrinds. The solution? New carbide button cutting geometries that offer maximum material on each button. What's more, each button has gone through a special surface treatment to make it tougher and more durable. For most rock formations we offer you up to 15 % more meters between regrinds.

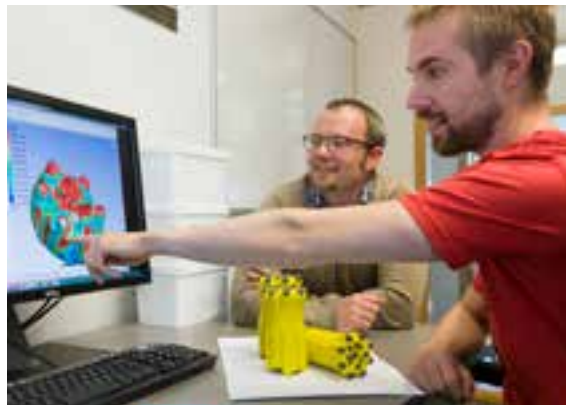
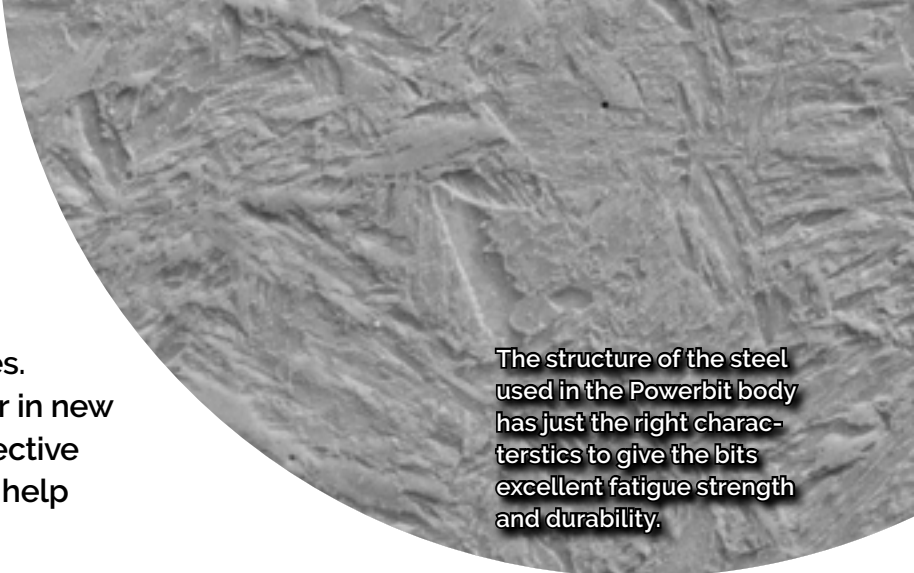


**Power of mind.
Inventing new
solutions.**



Innovation is one of our key capabilities. We invest a lot of resources every year in new technology. The result? Ever more effective drilling equipment that ultimately will help you be more efficient and productive.

The structure of the steel used in the Powerbit body has just the right characteristics to give the bits excellent fatigue strength and durability.



Optimised face and body design

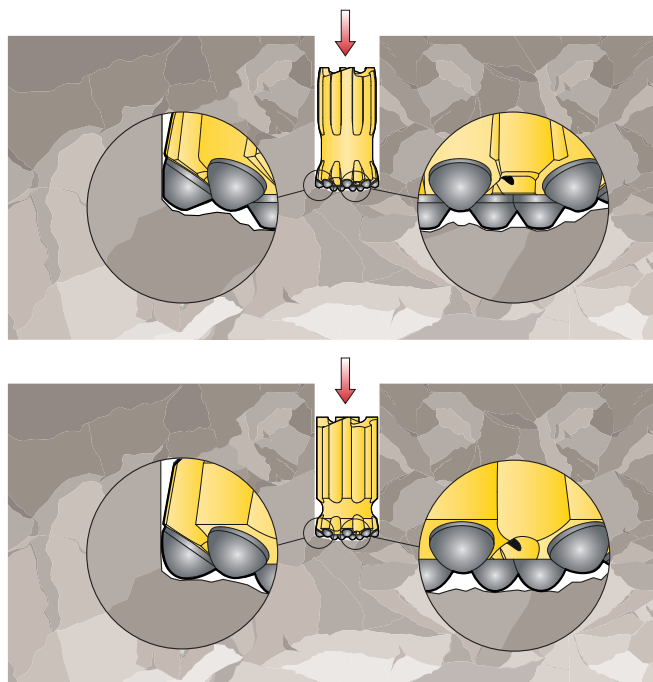
Everything in the design of the Powerbit tophammer bit range is new. The face is optimised for each type of rock. The flushing holes and flushing grooves are larger than before to ensure efficient flush-out of ground rock. Our new retrac bits feature a shorter, lighter retrac skirt allowing the impact energy to more effectively reach the rock, while still offering excellent bit steering.

Harder, stronger steel body grade

The steel body grade for the Powerbit range is chosen with utmost care to ensure the right hardness, strength and abrasion resistance. Improved heat treatment gives at least 10 % better fatigue strength. And, the stronger steel holds the buttons better, reducing the risk for pop-outs.

Patented button technology

Our semi-ballistic cemented carbide buttons are exchanged for buttons with a patented Trubbnos shape. These buttons are flatter (trapezoid shaped) and offer more cemented



Trubbnos buttons have a larger peripheral rock contact surface than semi-ballistic buttons. For a given wear diameter, this means 100 % more carbide volume available for productive drilling. The result? You can drill up to 50 % more meters before the first regrind. And, if you use our Trubbnos shaped grinding wheels at each regrind – recreating the Trubbnos shape – you will keep most of this advantage over the bit's lifetime.

Traditional semi-ballistic buttons with a much smaller rock contact surface than Trubbnos buttons.

carbide where it is needed most. This results in greatly improved wear resistance and much longer intervals between regrinds. Trubbnos and spherical buttons feature our patented

Enduro Extra treatment. This results in buttons that get a harder and tougher surface, improving drilling performance, and greatly reducing the risk for insert breakage.

Tests to prove our power.



The Powerbit computer simulations looked good. Now, comprehensive field tests are proving us right. The Secoroc Powerbit range is even better than expected. Make sure to test Powerbit on your rock. We can almost guarantee that you'll be pleasantly surprised.

Test drilling success

Powerbits are available for the thread systems T35, T38, T45, T51, T-WiZ60, ST58 and ST68. Tests have been performed all over the world in a great variety of rock conditions. The results? Powerbit greatly outperforms all competing bits. Depending on rock type, service life is up to 75 % better than the competition. And penetration rate is up to 10 % better. Here we show test data from five test sites. Please check these numbers to get an idea of what Powerbit can do for you.



Virginia, USA

The population of USA's capital, Washington DC, is increasing rapidly and new infrastructure is needed. While working on one of these projects, William A Hazel Inc. encountered hard rock (275 MPa) that needed heavy duty drilling equipment. Powerbits with HD Trubbnos and HD spherical buttons were tested against the reference bits, non Epiroc Drilling Tools bits. The drillers were very impressed with the new Powerbits that showed excellent wear characteristics and a much longer service life.

Powerbit with spherical buttons vs. reference bit

Rock type:	Hard, medium abrasive
Reference bit:	T45, 89 mm retrac, 13 mm spherical buttons
Powerbit:	Powerbit T45, 89 mm retrac
Powerbit buttons:	Spherical, HD 12,7 mm

Service life improvement: 92 %



Garpenberg, Sweden

At the Boliden mine in Garpenberg, Sweden, Powerbit T45, 76 mm with Trubbnos buttons were tested in medium hard, very abrasive rock. Three different tests were performed: 12 mm buttons reground with competitor grinding cups, 12 mm buttons reground with Trubbnos grinding wheels, and 12.7 mm HD (heavy duty) buttons reground with Trubbnos grinding wheels. All tests showed above expectation results, and service life can be greatly increased by re-creating the Trubbnos button shape at regrinds.

Different Powerbits with Trubbnos buttons vs. reference bit

Rock type:	Medium hard, very abrasive		
Reference bit:	T45, 76 mm retrac, 12 mm semi-ballistic buttons		
Powerbit:	Powerbit T45, 76 mm retrac		
Powerbit buttons:	Trubbnos 12 mm (gauge) 11 mm (centre)	Trubbnos 12 mm (gauge) 11 mm (centre)	Trubbnos, HD 12.7 mm (gauge) 11 mm (centre)
Grinding technique:	Grinding cups	Grinding wheels for Trubbnos	Grinding wheels for Trubbnos
Service life improvement (average):	6 %	21 %	75 %



Gothenburg, Sweden

At the Gothenburg quarry, Sweden, Powerbit was tested in medium hard, medium abrasive rock, against our standard bit with semi-ballistic buttons. Regrinding was done with Trubbnos grinding wheels to re-create the Trubbnos shape. Test results were excellent, including greatly improved service life, longer service intervals and a significantly better penetration rate.

Powerbit with Trubbnos buttons vs. standard Epiroc Drilling Tools bit with semi-ballistic buttons

Rock type:	Medium hard, medium abrasive		
Reference bit:	Epiroc Drilling Tools T45, 76 mm retrac, HD semi-ballistic buttons		
Powerbit:	Powerbit T45, 76 mm retrac		
Powerbit buttons:	Trubbnos, HD 12.7 mm gauge buttons, 11 mm center buttons		
Grinding technique:	Trubbnos and semi-ballistic grinding wheels		
	Reference bit	Powerbit	Improvement
Service life:*	490 m	628 m	28 %
Penetration rate:*	1,03 m/min	1,10 m/min	7 %
Meters drilled before first regrind:*	125 m	165 m	32 %
Meters drilled between regrinds:*	117 m	130 m	11 %

* Average values



Tangen, Norway

In Tangen, Kjell Foss Pukkverksprengning operates a quarry where road construction material is produced for major new infrastructure projects in the Oslo area. In the hard, medium abrasive gneiss, 89 mm Powerbits with Trubbnos buttons have been tested and compared to Epiroc Drilling Tools bits with spherical buttons. Even though the special Trubbnos grinding wheels were not available, Powerbit gave outstanding test results. Many more meters were drilled before the first regrind and total service life was greatly improved.

Powerbit with Trubbnos buttons vs. Epiroc Drilling Tools standard bit

Rock type:	Very hard, medium abrasive		
Reference bit:	Epiroc Drilling Tools T45, 89 mm retrac, 12.7 mm HD semi-ballistic buttons (bit will be phased out during 2016)		
Powerbit:	Powerbit T45, 89 mm retrac		
Powerbit buttons:	Trubbnos, HD 12.7 mm		
Grinding technique:	Grinding cups		
	Reference bit	Powerbit	Improvement
Service life (average):	1090 m	1340 m	23 %



Sedenak, Malaysia

Material from Saroma Engineering's Sedenak quarry is used to produce high grade cement used for ground pillars for high buildings. Drilling, blasting and crushing is done in hard, medium abrasive granite and diorite. Here, 89 mm Powerbits with spherical 12.7 mm HD buttons have been tested. On average Powerbit service life was 10 % better than the reference bits normally used.

Powerbit with sperical buttons vs. reference bit

Rock type:	Hard, medium abrasive (granite and diorite)		
Reference bit:	T45, 89 mm, 13 mm spherical buttons		
Powerbit:	Powerbit T45, 89 mm		
Powerbit buttons:	Spherical, HD 12.7 mm		
Grinding technique:	Grinding cups		
	Reference bit	Powerbit	Improvement
Service life (average):	769 m	845 m	10 %
Penetration rate (average):	0,56 m/min	0,60 m/min	7 %

A string of powerful arguments.

We're known for the quality of our shank adapters. And the quality of our drill rods. With Secoroc Powerbit we've got the bits to match. For you, it means that you can get a complete, unbeatable drill string from one single supplier. Us.

The best shank adapters and drill rods

For years the shank adapters and drill rods from Epiroc Drilling Tools have been the equipment of choice for drillers looking for high quality and long service life. We put all our 100 years of rock drilling experience and know-how into making the best adapters and rods. A tried and tested combination of material choice, heat treatment and the unique T-WIZ threads gives you high up-time and effective drilling.

The best bits

With Powerbit we have the drill bits to match. As the tests show, these new bits work outstandingly well in any rock formation and they outperform



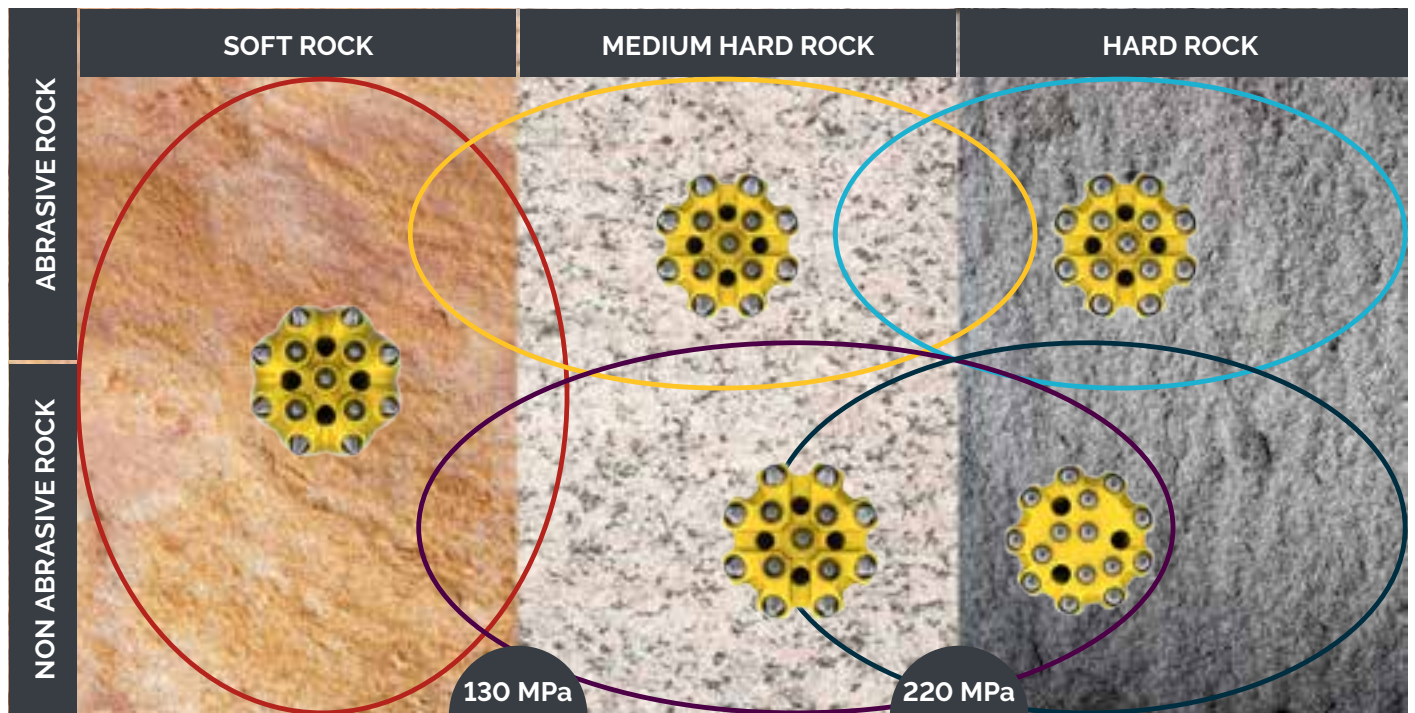
the competition on all test sites. For greatly increased service life – use Powerbit.

An unbeatable drill string

No detail has been overlooked when creating the best drill string to date. Our shank adapters, drill rods and powerful bits are tough and rock hard, but not brittle. And the pieces work perfectly together. For an unbeatable drill string, you need to look no further than Epiroc Drilling Tools.



Secoroc Powerbit selection guide



Rocket bit
Full-ballistic buttons



The best choice for soft rock conditions. Full-ballistic buttons and large vertical flushing grooves effectively remove larger chips, greatly increasing penetration rate.

Powerface bit
Trubbnos buttons, heavy duty (HD)



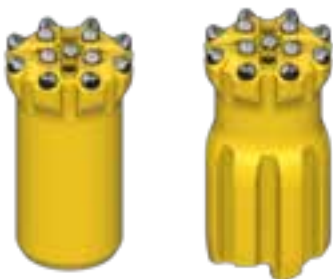
Ideal for abrasive, medium hard to hard rock. Larger Trubbnos buttons and flushing grooves give the ideal balance between service life and penetration rate. Available with a short retrac for straight holes in broken rock.

Powerface bit
Spherical buttons, standard or heavy duty (HD)



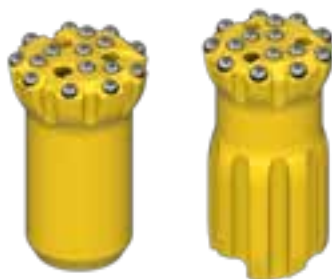
For tough conditions in hard and abrasive rock. Optimised face and body design and with standard or large spherical buttons for long service life. Available with a short retrac for straight holes in broken rock.

Powerface bit
Trubbnos buttons



Designed for medium hard to hard rock. Trubbnos buttons provide better penetration rate than spherical buttons, and a longer service life than semi-ballistic ones. Available with a short retrac for straight holes in broken rock.

Flat face bit
Spherical buttons, standard or heavy duty (HD)



Ideal for hard, medium abrasive rock. The flat face, with many spherical buttons, offer an optimised energy transfer. Available with a short retrac for straight holes in broken rock.

Dome bit
Spherical or Trubbnos buttons



Can be used as an alternative to traditional reaming equipment in a pre-drilled hole and in all types of rock formations. Optimised face design for better removal of cuttings. Available with spherical or the effective Trubbnos buttons.

Secoroc Powerbit

T35 (1³/₈"

Diameter		Retrac	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	
POWERFACE BITS – Trubbnos buttons, heavy duty (HD)											
64	2½	Yes	90029785	133-6064-21-44-70,57-20	10	6x12,7	3x10, 1x8	35°	3	3	2.0
POWERFACE BITS – Trubbnos buttons											
51	2	Yes	90029823	133-6051-44-70,37-20	10	6x10	3x9, 1x7	35°	3	3	1.1
54	2½	Yes	90029822	133-6054-44-70,37-20	10	6x11	3x9, 1x8	35°	3	3	1.3
57	2¼	Yes	90029786	133-6057-44-70,37-20	10	6x11	3x9, 1x8	35°	3	3	1.5
FLAT FACE BITS – Trubbnos buttons*											
48	3¾	No	90029827	133-5048-39-70,37-20	9	6x10	3x9	35°	3	3	0.9

* Flat face bits with Trubbnos buttons can be used in not so demanding rock conditions.



Diameter		Retrac	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	
ROCKET BITS – Full-ballistic buttons											
89	3½	No	90029274	135-5089-46-66,57-20	13	8x12,7	5x12,7	40°	-	4	3,6
POWERFACE BITS – Trubbnos buttons, heavy duty (HD)											
60	2¾	Yes	90029790	135-6060-21-44-70,57-20	10	6x12	3x10, 1x8	35°	3	3	1,7
64	2½	No	90029713	135-6064-21-70,57-20	10	6x12,7	3x10, 1x8	35°	3	3	1,7
64	2½	Yes	90029466	135-6064-21-44-70,57-20	10	6x12,7	3x10, 1x8	35°	3	3	2,0
70	2¾	Yes	90029691	135-6070-21-44-70,57-20	13	8x11	5x10	35°	-	4	2,9
76	3	No	90029717	135-6076-21-70,57-20	13	8x12,7	5x11	35°	-	4	2,8
76	3	Yes	90029687	135-6076-21-44-70,57-20	13	8x12,7	5x11	35°	-	4	3,3
89	3½	No	90029719	135-6089-21-70,57-20	13	8x12,7	5x12,7	35°	-	4	3,4
POWERFACE BITS – Trubbnos buttons											
76	3	No	90029714	135-6076-70,57-20	13	8x12,7	5x11	35°	-	4	2,8
76	3	Yes	90029757	135-6076-44-70,57-12	13	8x12	5x11	35°	-	4	3,3
76	3	Yes	90029686	135-6076-44-70,57-20	13	8x12	5x11	35°	-	4	3,3
89	3½	Yes	90029682	135-6089-44-70,57-20	13	8x12	5x12	35°	-	4	4,8
102	4	No	90029756	135-6102-70,57-20	13	8x14,5	5x12,7	35°	-	4	3,9
POWERFACE BITS – Spherical buttons, heavy duty (HD)											
64	2½	No	90029712	135-6064-21,57-20	10	6x12,7	3x10, 1x8	35°	3	3	1,7
64	2½	Yes	90029467	135-6064-21-44,57-20	10	6x12,7	3x10, 1x8	35°	3	3	2,0
70	2¾	No	90029718	135-6070-21,57-20	13	8x11	5x10	35°	-	4	2,4
70	2¾	Yes	90029690	135-6070-21-44,57-20	13	8x11	5x10	35°	-	4	2,9
76	3	No	90029715	135-6076-21,57-20	13	8x12,7	5x11	35°	-	4	2,8
76	3	Yes	90029685	135-6076-21-44,57-20	13	8x12,7	5x11	35°	-	4	3,3
89	3½	No	90029716	135-6089-21,57-20	13	8x12,7	5x12,7	35°	-	4	3,4
89	3½	Yes	90029681	135-6089-21-44,57-20	13	8x12,7	5x12,7	35°	-	4	4,9
POWERFACE BITS – Spherical buttons											
102	4	No	90029755	135-6102,57-20	13	8x14,5	5x12,7	35°	-	4	3,9
FLAT FACE BITS – Spherical buttons											
64	2½	No	90029693	135-5064,57-20	13	8x10	5x9	35°	-	4	1,7
64	2½	Yes	90029753	135-5064-44,57-20	13	8x10	5x9	35°	-	4	2,0
76	3	No	90029689	135-5076,57-20	15	9x11	6x10	35°	-	3	2,8
76	3	Yes	90029688	135-5076-44,57-20	15	9x11	6x10	35°	-	3	3,2
89	3½	No	90029684	135-5089,57-20	16	9x11	6x11	35°	-	3	3,4
89	3½	Yes	90029867	135-5089-44,57-20	16	9x11	6x11	35°	-	3	5,1
102	4	No	90029788	135-5102,57-20	14	9x14,5	5x12,7	35°	-	3	4,0
115	4½	No	90029758	135-5115,57-20	16	9x14,5	7x12,7	35°	-	3	5,1
FLAT FACE BITS – Trubbnos buttons*											
64	2½	No	90029694	135-5064-70,57-20	13	8x10	5x9	35°	-	4	1,7
76	3	No	90029752	135-5076-70-99,57-20	11	7x12,7	4x11	35°	-	3	2,4
DOME BITS – Spherical or Trubbnos buttons											
102	4	No	90029789	135-5102-42-24,57-20	17	16x12,7	1x12,7	35°	1	2	3,5
127	5	No	90029784	135-5127-42-24,57-20	19	18x12,7	1x12,7	35°	1	3	5,2
127	5	No	90029783	135-5127-42-24-70,57-20	19	18x12,7	1x12,7	35°	1	3	5,6
HOLE OPENERS – Spherical buttons											
127	5	No	90029787	135-9127-51,57-20	17	8x15,8	6x15,8, 3x11	25°	-	2	6,9

* Flat face bits with Trubbnos buttons can be used in not so demanding rock conditions.

Diameter		Retrac	Product No.	Product code	No. of buttons	Buttons x button diameter (mm)		Gauge buttons angle*	Flushing hole		Weight approx. kg
mm	inch					Gauge	Centre		Side	Centre	
ROCKET BITS – Full-ballistic buttons											
76	3	No	90029265	136-5076-46-66,57-20	13	8x11	5x11	40°	-	4	2.4
89	3½	No	90029272	136-5089-46-66,57-20	13	8x12,7	5x12,7	40°	-	4	3.4
102	4	No	90029283	136-5102-46-66,57-20	13	8x14,5	5x14,5	40°	-	4	4.5
POWERFACE BITS – Trubbnos buttons, heavy duty (HD)											
66	2½	Yes	90029614	136-6066-21-44-70,57-20	10	6x12,7	3x10, 1x8	35°	-	3	2.1
70	2¾	No	90029409	136-6070-21-70,57-20	13	8x11	5x10	35°	-	4	2.2
70	2¾	Yes	90029394	136-6070-21-44-70,57-20	13	8x11	5x10	35°	-	4	2.6
76	3	No	90029351	136-6076-21-70,57-20	13	8x12,7	5x11	35°	-	4	2.7
76	3	Yes	90029354	136-6076-21-44-70,57-20	13	8x12,7	5x11	35°	-	4	3.0
89	3½	No	90029363	136-6089-21-70,57-20	13	8x12,7	5x12,7	35°	-	4	3.8
89	3½	Yes	90029362	136-6089-21-44-70,57-20	13	8x12,7	5x12,7	35°	-	4	4.6
102	4	No	90029405	136-6102-21-70,57-20	13	8x15,8	5x12,7	35°	-	4	5.1
102	4	Yes	90029412	136-6102-21-44-70,57-20	13	8x15,8	5x12,7	35°	-	4	6.2
POWERFACE BITS – Trubbnos buttons											
76	3	No	90029352	136-6076-70,57-20	13	8x12	5x11	35°	-	4	2.5
76	3	Yes	90029376	136-6076-44-70,57-20	13	8x12	5x11	35°	-	4	3.1
83	3¾	Yes	90029615	136-6083-44-70,57-20	13	8x12	5x12	35°	-	4	3.9
89	3½	No	90029361	136-6089-70,57-20	13	8x12	5x12	35°	-	4	3.7
89	3½	Yes	90029365	136-6089-44-70,57-20	13	8x12	5x12	35°	-	4	4.7
102	4	No	90029407	136-6102-70,57-20	13	8x14,5	5x12,7	35°	-	4	5.0
102	4	Yes	90029411	136-6102-44-70,57-20	13	8x14,5	5x12,7	35°	-	4	6.1
115	4½	No	90029603	136-6115-70,57-20	13	8x14,5	5x12,7	35°	-	4	5.6
POWERFACE BITS – Spherical buttons, heavy duty (HD)											
70	2¾	No	90029382	136-6070-21,57-20	13	8x11	5x10	35°	-	4	2.2
70	2¾	Yes	90029395	136-6070-21-44,57-20	13	8x11	5x10	35°	-	4	2.6
76	3	No	90029377	136-6076-21,57-20	13	8x12,7	5x11	35°	-	4	2.6
76	3	Yes	90029357	136-6076-21-44,57-20	13	8x12,7	5x11	35°	-	4	3.1
89	3½	No	90029360	136-6089-21,57-20	13	8x12,7	5x12,7	35°	-	4	3.8
89	3½	Yes	90029364	136-6089-21-44,57-20	13	8x12,7	5x12,7	35°	-	4	4.7
102	4	No	90029408	136-6102-21,57-20	13	8x15,8	5x12,7	35°	-	4	5.1
102	4	Yes	90029413	136-6102-21-44,57-20	13	8x15,8	5x12,7	35°	-	4	6.2
127	5	No	90029604	136-6127-21,57-20	17	8x15,8	4x15,8, 5x11	35°	-	4	7.8
POWERFACE BITS – Spherical buttons											
115	4½	No	90029601	136-6115,57-20	13	8x14,5	5x12,7	35°	-	4	5.6
115	4½	Yes	90029602	136-6115-44,57-20	13	8x14,5	5x12,7	35°	-	4	7.8
FLAT FACE BITS – Spherical buttons											
76	3	No	90029371	136-5076,57-20	15	9x11	6x10	35°	-	3	2.6
76	3	Yes	90029370	136-5076-44,57-20	15	9x11	6x10	35°	-	3	3.0
89	3½	No	90029367	136-5089,57-20	16	9x11	7x11	35°	-	3	3.8
89	3½	Yes	90029366	136-5089-44,57-20	16	9x11	7x11	35°	-	3	4.8
102	4	No	90029404	136-5102,57-20	16	9x14,5	7x12,7	35°	-	3	5.2
102	4	Yes	90029403	136-5102-44,57-20	16	9x14,5	7x12,7	35°	-	3	6.4
DOME BITS – Spherical or Trubbnos buttons											
127	5	No	90029607	136-5127-42-24,57-20	19	18x12,7	1x12,7	35°	-	3	5.2
152	6	No	90029606	136-5152-42-24,57-20	20	18x14,5	2x14,5	35°	-	3	9.7
152	6	No	90029605	136-5152-42-70,57-20	20	18x14,5	2x14,5	35°	-	3	9.4
HOLE OPENERS – Spherical buttons											
127	5	No	90029802	136-9127-51,57-20	17	8x15,8	6x15,8, 3x11	25°	-	2	6.8

Diameter		Retrac	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	
ROCKET BITS – Full-ballistic buttons											
89	3½	No	90029284	137-5089-46-66,57-20	13	8x12,7	5x12,7	40°	-	4	4,0
102	4	No	90029285	137-5102-46-66,57-20	13	8x14,5	5x14,5	40°	-	4	4,5
POWERFACE BITS – Trubbnos buttons, heavy duty (HD)											
89	3½	No	90029418	137-6089-21-70,57-20	13	8x12,7	5x12,7	35°	-	4	3,7
89	3½	Yes	90029414	137-6089-21-44-70,57-20	13	8x12,7	5x12,7	35°	-	4	4,5
102	4	No	90029399	137-6102-21-70,57-20	13	8x15,8	5x12,7	35°	-	4	5,5
102	4	Yes	90029422	137-6102-21-44-70,57-20	13	8x15,8	5x12,7	35°	-	4	6,8
115	4½	No	90029434	137-6115-21-70,57-20	13	8x15,8	5x14,5	35°	-	4	6,1
115	4½	Yes	90029401	137-6115-21-44-70,57-20	13	8x15,8	5x14,5	35°	-	4	9,2
127	5	No	90029431	137-6127-21-70,57-20	17	8x15,8	4x15,8, 5x11	35°	-	4	8,3
127	5	Yes	90029433	137-6127-21-44-70,57-20	17	8x15,8	4x15,8, 5x11	35°	-	4	12,0
POWERFACE BITS – Trubbnos buttons											
89	3½	No	90029420	137-6089-70,57-20	13	8x12	5x12	35°	-	4	3,6
89	3½	Yes	90029416	137-6089-44-70,57-20	13	8x12	5x12	35°	-	4	4,4
92	3¾	Yes	90029734	137-6092-44-70,57-20	13	8x12,7	5x12,7	35°	-	4	5,4
102	4	No	90029398	137-6102-70,57-20	13	8x14,5	5x12,7	35°	-	4	5,4
102	4	Yes	90029421	137-6102-44-70,57-20	13	8x14,5	5x12,7	35°	-	4	6,8
115	4½	No	90029436	137-6115-70,57-20	13	8x14,5	5x14,5	35°	-	4	6,0
115	4½	Yes	90029426	137-6115-44-70,57-20	13	8x14,5	5x14,5	35°	-	4	9,1
127	5	No	90029430	137-6127-70,57-20	17	8x14,5	4x14,5, 5x11	35°	-	4	8,2
127	5	Yes	90029435	137-6127-44-70,57-20	17	8x14,5	4x14,5, 5x11	35°	-	4	11,9
POWERFACE BITS – Spherical buttons, heavy duty (HD)											
76	3	No	90029733	137-6076-21,57-20	13	8x12,7	5x11	35°	-	4	3,2
89	3½	No	90029419	137-6089-21,57-20	13	8x12,7	5x12,7	35°	-	4	3,7
89	3½	Yes	90029415	137-6089-21-44,57-20	13	8x12,7	5x12,7	35°	-	4	4,5
102	4	No	90029400	137-6102-21,57-20	13	8x15,8	5x12,7	35°	-	4	5,5
102	4	Yes	90029423	137-6102-21-44,57-20	13	8x15,8	5x12,7	35°	-	4	6,9
115	4½	No	90029438	137-6115-21,57-20	13	8x15,8	5x14,5	35°	-	4	6,1
115	4½	Yes	90029428	137-6115-21-44,57-20	13	8x15,8	5x14,5	35°	-	4	9,1
127	5	No	90029427	137-6127-21,57-20	17	8x15,8	4x15,8, 5x11	35°	-	4	8,3
127	5	Yes	90029437	137-6127-21-44,57-20	17	8x15,8	4x15,8, 5x11	35°	-	4	12,0
140	5½	No	90029735	137-6140-21,57-20	19	10x15,8	9x14,5	35°	-	5	9,2
152	6	No	90029736	137-6152-21,57-20	19	10x15,8	9x14,5	35°	-	5	11,6
POWERFACE BITS – Spherical buttons											
83	3⅝	Yes	90029731	137-6083-44,57-20	13	12x11	1x9	35°	-	4	3,8
FLAT FACE BITS – Spherical buttons											
89	3½	No	90029417	137-5089,57-20	16	9x11	7x11	35°	-	3	3,6
89	3½	Yes	90029402	137-5089-44,57-20	16	9x11	7x11	35°	-	3	4,7
102	4	No	90029425	137-5102,57-20	16	9x14,5	7x12,7	35°	-	3	5,6
102	4	Yes	90029424	137-5102-44,57-20	16	9x14,5	7x12,7	35°	-	3	7,1
115	4½	No	90029432	137-5115,57-20	16	9x14,5	7x14,5	35°	-	3	6,2
115	4½	Yes	90029429	137-5115-44,57-20	16	9x14,5	7x14,5	35°	-	3	9,8
127	5	No	90029444	137-5127,57-20	19	9x14,5	10x14,5	35°	-	3	8,6
127	5	Yes	90029439	137-5127-44,57-20	19	9x14,5	10x14,5	35°	-	3	12,3
DOMES BITS – Spherical buttons											
152	6	No	90029766	137-5152-42-24,57-20	20	18x14,5	2x14,5	35°	-	3	10,4

Secoroc Powerbit

T-WiZ60 (2 3/8")

Diameter		Retrac	Product No.	Product code	No. of buttons	Buttons x button diameter (mm)		Gauge buttons angle*	Flushing hole		Weight approx. kg
mm	inch					Gauge	Centre		Side	Centre	
POWERFACE BITS – Trubbnos buttons, heavy duty (HD)											
92	3 3/8	No	90029711	158-6092-21-70,57-20	13	8x14,5	5x12,7	35°	–	4	4,2
92	3 3/8	Yes	90029706	158-6092-21-44-70,57-20	13	8x14,5	5x12,7	35°	–	4	4,7
95	3 3/4	Yes	90029701	158-6095-21-44-70,57-20	13	8x14,5	5x12,7	35°	–	4	5,6
115	4 1/2	Yes	90029696	158-6115-21-44-70,57-20	13	8x15,8	5x14,5	35°	–	4	9,2
127	5	Yes	90029672	158-6127-21-44-70,57-20	17	8x15,8	4x15,8, 5x11	35°	–	4	11,9
140	5 1/2	Yes	90029751	158-6140-21-44-70,57-20	19	10x15,8	9x14,5	35°	–	5	14,6
POWERFACE BITS – Trubbnos buttons											
102	4	Yes	90029449	158-6102-44-70,57-20	13	8x14,5	5x12,7	35°	–	4	6,9
POWERFACE BITS – Spherical buttons, heavy duty (HD)											
95	3 3/4	Yes	90029705	158-6095-21-44,57-20	13	8x14,5	5x12,7	35°	–	4	5,6
102	4	No	90029447	158-6102-21,57-20	13	8x15,8	5x12,7	35°	–	4	5,8
102	4	Yes	90029450	158-6102-21-44,57-20	13	8x15,8	5x12,7	35°	–	4	6,9
115	4 1/2	No	90029695	158-6115-21,57-20	13	8x15,8	5x14,5	35°	–	4	8,0
115	4 1/2	Yes	90029698	158-6115-21-44,57-20	13	8x15,8	5x14,5	35°	–	4	9,5
127	5	No	90029707	158-6127-21,57-20	17	8x15,8	4x15,8, 5x11	35°	–	4	9,8
127	5	Yes	90029670	158-6127-21-44,57-20	17	8x15,8	4x15,8, 5x11	35°	–	4	11,8
140	5 1/2	Yes	90029668	158-6140-21-44,57-20	19	10x15,8	9x14,5	35°	–	5	14,6
152	6	No	90029662	158-6152-21,57-20	19	15x15,8	4x14,5	35°	–	5	11,8
152	6	Yes	90029664	158-6152-21-44,57-20	19	15x15,8	4x14,5	35°	–	5	17,9
POWERFACE BITS – Spherical buttons											
121	4 3/4	Yes	90029853	158-6121-44,57-20	14	8x15,8	6x14,5	35°	–	4	10,7
FLAT FACE BITS – Spherical buttons, heavy duty (HD)											
115	4 1/2	Yes	90029700	158-5115-21-44,57-20	16	9x15,8	7x12,7	35°	–	3	9,6
FLAT FACE BITS – Spherical buttons											
95	3 3/4	Yes	90029702	158-5095-44,57-20	16	9x12,7	7x11	35°	–	3	5,6



Secoroc Powerbit

ST58 (2⁹/₃₂"

Diameter		Retrac	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	
POWERFACE BITS – Trubbnos buttons, heavy duty (HD)											
89	3½	Short guide skirt	90029656	151-6089-21-35-70,57-20	13	8x12,7	5x12,7	35°	–	4	4,1
115	4½	Short guide skirt	90029658	151-6115-21-35-70,57-20	13	8x15,8	5x14,5	35°	–	4	8,4
POWERFACE BITS – Spherical buttons, heavy duty (HD)											
89	3½	No	90029709	151-6089-21,57-20	13	8x12,7	5x12,7	35°	–	4	3,6
102	4	No	90029710	151-6102-21,57-20	13	8x15,8	5x12,7	35°	–	4	4,8

Secoroc Powerbit

ST68 (2¹¹/₁₆"

Diameter		Retrac	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	
POWERFACE BITS – Trubbnos buttons, heavy duty (HD)											
102	4	No	90029725	152-6102-21-70,57-20	13	8x15,8	5x12,7	35°	–	4	5,2
115	4½	Short guide skirt	90029675	152-6115-21-35-70,57-20	13	8x15,8	5x14,5	35°	–	4	7,7
POWERFACE BITS – Trubbnos buttons											
102	4	Short guide skirt	90029678	152-6102-35-70,57-20	13	8x14,5	5x12,7	35°	–	4	5,6
115	4½	Short guide skirt	90029674	152-6115-35-70,57-20	13	8x14,5	5x14,5	35°	–	4	7,6
POWERFACE BITS – Spherical buttons, heavy duty (HD)											
102	4	No	90029732	152-6102-21,57-20	13	8x15,8	5x12,7	35°	–	4	5,2
115	4½	Short guide skirt	90029673	152-6115-21-35,57-20	13	8x15,8	5x14,5	35°	–	4	7,6
127	5	No	90029728	152-6127-21,57-20	17	8x15,8	4x15,8, 5x11	35°	–	4	6,9
152	6	No	90029750	152-6152-21,57-20	19	10x15,8	5x14,5, 4x14,5	35°	–	5	8,1
HOLE OPENERS – Spherical buttons											
152	6	No	90029791	152-9152-102,57-20	18	8x15,8	4x15,8, 6x15,8	25°	–	2	6,9

Product code explanations:

- 21 = Larger buttons than standard (Heavy Duty – HD)
- 24 = Reverse flushing
- 35 = Guide bit with short guide wings
- 39 = Bit with nine buttons and three front flushing holes
- 42 = Dome bit
- 44 = Short retrac skirt
- 46 = Rocket bit
- 66 = Full-ballistic buttons
- 67 = Ballistic buttons
- 70 = Trubbnos (trapezoid shaped) buttons

Trubbnos and spherical buttons have Enduro Extra treatment.
This results in a harder and tougher surface which makes the buttons last longer.



A construction worker wearing a blue hard hat and a high-visibility yellow jacket is shown in profile, looking towards the right. The background is a blurred construction site under a blue sky with light clouds. The text "Grind! That's our sharpest advice for effective drilling." is overlaid on the right side of the image in a white, bold, sans-serif font.

Grind!
That's our
sharpest
advice for
effective
drilling.

Well-timed grinding is key to rock drilling productivity. The key is tracking your penetration rate. When it goes down, it's time to regrind. Typically, you can drill until the wear flat ratio (width of wear flat area / the button diameter) is 40–50 %. And when you regrind, make sure that you keep a wear flat area of about 10 % – there's no point in grinding away bit service life. Our tests show that proper button grinding, regardless of button shape, has the potential to double the bit service life.



Norrtälje, Sweden. Secoroc Powerbit T45, 76 mm retrac, with HD Trubbnos buttons. The Trubbnos profile is re-created after grinding, keeping a wear flat area of about 10 %.

Trubbnos grinding is even more important

Epiroc Drilling Tools is exchanging all semi-ballistic buttons for our patented Trubbnos shaped buttons (trapezoid shaped buttons). The Trubbnos shape gives a larger rock contact surface and more cemented carbide volume available for effective drilling. So far, tests have shown that Trubbnos shaped buttons will give you up to 50 % more meters before the first regrind, and up to 15 % more meters between regrinds. And tests show that optimal

penetration rate and bit service life are obtained when Trubbnos regrinding takes place at a wear flat ratio of 45–55 %.

Please note that there is one condition for reaching these excellent drilling results. At each regrind, the Trubbnos button shape must be re-created using our special Trubbnos diamond grinding wheels. If you, e.g. use semi-ballistic grinding cups, the Trubbnos advantage will eventually be lost.

The same grinding routine

Grinding Trubbnos buttons is no different than grinding other button shapes. All you need is the Trubbnos grinding wheels. These fit on our grinding shop machine Secoroc BQ3 and our portable grinding machine Secoroc Manual B. For you, the grinding operation is performed just as before, and the grinding time for each bit is similar to grinding other button shapes. It's just that simple.



Cemented carbide buttons – spherical, Trubbnos and full-ballistic.

Grinding machines

Secoroc Grind Matic RH3



Oil
24V
DC

Rig mounted hydraulic grinding machine.

Grinding machine	Product No.
Grind Matic RH3	87005200

Secoroc Grind Matic BQ3



Air
7
bar

Semi-automatic grinding machine.

Secoroc BQ3	Product No.
400V 3-phase 50 Hz	87004800
230V 3-phase 50 Hz	87004801
400V 3-phase 60 Hz	87004803
230V 3-phase 60 Hz	87004805
440V 3-phase 50 Hz	87004806

Secoroc Grind Matic Manual B



Air
7
bar

Handheld portable grinding machine.

Grinding machine	Product No.
Secoroc Manual B	87001890

Secoroc Grind Matic HG



Air
7
bar

Handheld grinding machine.

Grinding machine	Product No.
Secoroc HG	87002435



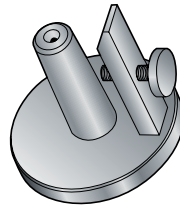
Accessories for grinding machines*

Bit holders for button bits



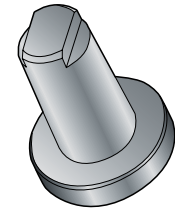
Multi grip for Secoroc Grind Matic RH3

Description	Product No.
Multi grip (can be used for Tophammer-, DTH- and COPROD-bits)	87004360



Type A for Secoroc Grind Matic BQ3

Type	Threaded bits	Product No.
A	T35	Not available
	T38	87004687
	T45	87003479
	T51	87003521
	T-WiZ60*	87005052
	ST58	87003522
	ST68	87003523
	Dome bits	Product No.
	89, 102 and 127 mm	87003523



Type C for Secoroc Grind Matic Manual B

Type	Threaded bits	Product No.
C	T35	Not available
	T38	87000795
	T45	87000796
	T51	87000802
	ST58	87001726
	ST68	87001573
	Dome bits	Product No.
		89, 102 and 127 mm

* Must be used together with clamping device 87004777 (observe max bit height).

Diamond grinding wheels for Secoroc Grind Matic RH3



Grinding wheel for spherical buttons.



Grinding wheel for Trubbnos buttons.

Diameter, mm	Product No.
GRINDING WHEELS – Spherical buttons	
8	87005032
9	87005033
10	87005049
11	87004851
12	87005050
12.7	87004852
13	87004848
14.5	87004853
15.8	87004854

Diameter, mm	Product No.
GRINDING WHEELS – Trubbnos buttons	
9	87004809
10	87004810
11	87004811
12	87004812
12.7	87004813
14.5	87004814
15.8	87004815

NOTE! These grinding wheels have an inner diameter of 10 mm.

* A complete assortment of grinding accessories can be found in our grinding catalogue.

Accessories for Secoroc grinding machines

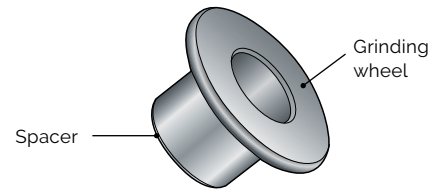
Diamond grinding wheels for Secoroc Grind Matic BQ3 and Secoroc Grind Matic Manual B



Grinding wheel for spherical buttons.



Grinding wheel for Trubbnos buttons.



Grinding wheel for steel removal.

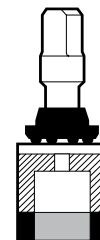
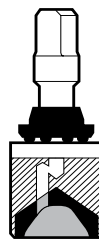
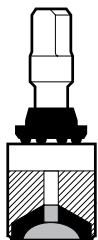
Diameter, mm	Product No.
GRINDING WHEELS – Spherical buttons	
8	87004555
9	87003969
10	87003970
11	87003971
12	87003972
13	87003973
14	87001025
15	87001384
16	87001027

Diameter, mm	Product No.
GRINDING WHEELS – Trubbnos buttons	
9	87004589
10	87004590
11	87004591
12	87004592
12.7	87004593
14.5	87004594
15.8	87004595

Type	Product No.
GRINDING WHEEL + SPACERS* – For steel removal	
Grinding wheel	87001530
Spacer for 10 mm button	87001631
Spacer for 11 mm button	87001632
Spacer for 12 mm button	87001633
Spacer for 13 mm button	87001634
Spacer for 14 mm button	87001635

NOTE! These grinding wheels have an inner diameter of 12 mm.
* The grinding wheel (and spacers) for steel removal only fits Secoroc BQ3.

Diamond grinding cups for Secoroc Grind Matic HG



Diameter, mm	Product No.
GRINDING CUPS – Spherical buttons	
8	87005111
9	87005112
10	87005113
11	87005114
12	87005115
13	87005116
14	87005117
15	87005118
16	87005119

Diameter, mm	Product No.
GRINDING CUPS – Trubbnos buttons	
9	87005160
10	87005161
11	87005162
12	87005163
12.7	87005164
14.5	87005165
15.8	87005166

Diameter, mm	Product No.
GRINDING CUPS – For steel removal	
7–8	87005150
9–10	87005151
11–12	87005152
13–14	87005153
15–16	87005154

Indexing templates for Secoroc Grind Matic BQ3 grinding machine

T35 Powerbits		Indexing templates
Product No.	Product code	Product No.
POWERFACE BITS – Trubbnos buttons, heavy duty (HD)		
90029785	133-6064-21-44-70,57-20	87003487
POWERFACE BITS – Trubbnos buttons		
90029823	133-6051-44-70,37-20	87003559
90029822	133-6054-44-70,37-20	
90029786	133-6057-44-70,37-20	
FLAT FACE BITS – Trubbnos buttons		
90029827	133-5048-39-70,37-20	Not available

T38 Powerbits		Indexing templates
Product No.	Product code	Product No.
ROCKET BITS – Full-ballistic buttons		
90029274	135-5089-46-66,57-20	87003560
POWERFACE BITS – Trubbnos buttons, heavy duty (HD)		
90029790	135-6060-21-44-70,57-20	87003487
90029713	135-6064-21-70,57-20	
90029466	135-6064-21-44-70,57-20	
90029691	135-6070-21-44-70,57-20	87003953
90029717	135-6076-21-70,57-20	
90029687	135-6076-21-44-70,57-20	
90029719	135-6089-21-70,57-20	
POWERFACE BITS – Trubbnos buttons		
90029714	135-6076-70,57-20	87003953
90029757	135-6076-44-70,57-12	
90029686	135-6076-44-70,57-20	87004432
90029682	135-6089-44-70,57-20	
90029756	135-6102-70,57-20	
POWERFACE BITS – Spherical buttons, heavy duty (HD)		
90029712	135-6064-21,57-20	87003487
90029467	135-6064-21-44,57-20	
90029718	135-6070-21,57-20	87003953
90029690	135-6070-21-44,57-20	
90029715	135-6076-21,57-20	
90029685	135-6076-21-44,57-20	
90029716	135-6089-21,57-20	87004432
90029681	135-6089-21-44,57-20	
POWERFACE BITS – Spherical buttons		
90029755	135-6102,57-20	87004435
FLAT FACE BITS – Spherical buttons		
90029693	135-5064,57-20	87003953
90029753	135-5064-44,57-20	
90029689	135-5076,57-20	87004433
90029688	135-5076-44,57-20	
90029684	135-5089,57-20	87004434
90029867	135-5089-44,57-20	
90029788	135-5102,57-20	87004775
90029758	135-5115,57-20	
FLAT FACE BITS – Trubbnos buttons		
90029694	135-5064-70,57-20	87004434
90029752	135-5076-70-99,57-20	Not available
DOMES BITS – Spherical or Trubbnos buttons		
90029789	135-5102-42-24,57-20	87003953
90029784	135-5127-42-24,57-20	87004775
90029783	135-5127-42-24-70,57-20	
HOLE OPENERS – Spherical buttons		
90029787	135-9127-51,57-20	87003500



Indexing templates for Secoroc BQ3 grinding machine

T45 Powerbits		Indexing templates
Product No.	Product code	Product No.
ROCKET BITS – Full-ballistic buttons		
90029265	136-5076-46-66,57-20	87003560
90029272	136-5089-46-66,57-20	
90029283	136-5102-46-66,57-20	
POWERFACE BITS – Trubbnos buttons, heavy duty (HD)		
90029614	136-6066-21-44-70,57-20	87003734
90029409	136-6070-21-70,57-20	87003953
90029394	136-6070-21-44-70,57-20	
90029351	136-6076-21-70,57-20	
90029354	136-6076-21-44-70,57-20	
90029363	136-6089-21-70,57-20	
90029362	136-6089-21-44-70,57-20	87004432
90029405	136-6102-21-70,57-20	87004435
90029412	136-6102-21-44-70,57-20	
POWERFACE BITS – Trubbnos buttons		
90029352	136-6076-70,57-20	87003953
90029376	136-6076-44-70,57-20	
90029615	136-6083-44-70,57-20	87004432
90029361	136-6089-70,57-20	
90029365	136-6089-44-70,57-20	
90029407	136-6102-70,57-20	87004435
90029411	136-6102-44-70,57-20	
90029603	136-6115-70,57-20	87003952
POWERFACE BITS – Spherical buttons, heavy duty (HD)		
90029382	136-6070-21,57-20	87003953
90029395	136-6070-21-44,57-20	
90029377	136-6076-21,57-20	
90029357	136-6076-21-44,57-20	87004432
90029360	136-6089-21,57-20	
90029364	136-6089-21-44,57-20	
90029408	136-6102-21,57-20	
90029413	136-6102-21-44,57-20	87004435
90029604	136-6127-21,57-20	87003953
POWERFACE BITS – Spherical buttons		
90029601	136-6115,57-20	87003952
90029602	136-6115-44,57-20	
FLAT FACE BITS – Spherical buttons		
90029371	136-5076,57-20	87004433
90029370	136-5076-44,57-20	
90029367	136-5089,57-02	87004434
90029366	136-5089-44,57-20	
90029404	136-5102,57-20	87004775
90029403	136-5102-44,57-20	
DOMES BITS – Spherical or Trubbnos buttons		
90029607	136-5127-42-24,57-20	87004775
90029606	136-5152-42-24,57-20	
90029605	136-5152-42-70,57-20	
HOLE OPENERS – Spherical buttons		
90029802	136-9127-51,57-20	87003500

T51 Powerbits		Indexing templates
Product No.	Product code	Product No.
ROCKET BITS – Full-ballistic buttons		
90029284	137-5089-46-66,57-20	87003560
90029285	137-5102-46-66,57-20	
POWERFACE BITS – Trubbnos buttons, heavy duty (HD)		
90029418	137-6089-21-70,57-20	87004432
90029414	137-6089-21-44-70,57-20	
90029399	137-6102-21-70,57-20	87004435
90029422	137-6102-21-44-70,57-20	
90029434	137-6115-21-70,57-20	87003952
90029401	137-6115-21-44-70,57-20	
90029431	137-6127-21-70,57-20	87003953
90029433	137-6127-21-44-70,57-20	
POWERFACE BITS – Trubbnos buttons		
90029420	137-6089-70,57-20	87004432
90029416	137-6089-44-70,57-20	
90029734	137-6092-44-70,57-20	87003560
90029398	137-6102-70,57-20	87004435
90029421	137-6102-44-70,57-20	
90029436	137-6115-70,57-20	87003952
90029426	137-6115-44-70,57-20	
90029430	137-6127-70,57-20	87003953
90029435	137-6127-44-70,57-20	
POWERFACE BITS – Spherical buttons, heavy duty (HD)		
90029733	137-6076-21,57-20	87003953
90029419	137-6089-21,57-20	87004432
90029415	137-6089-21-44,57-20	
90029400	137-6102-21,57-20	87004435
90029423	137-6102-21-44,57-20	
90029438	137-6115-21,57-20	87003952
90029428	137-6115-21-44,57-20	
90029427	137-6127-21,57-20	87003953
90029437	137-6127-21-44,57-20	
90029735	137-6140-21,57-20	87004571
90029736	137-6152-21,57-20	87004572
POWERFACE BITS – Spherical buttons		
90029731	137-6083-44,57-20	87004432
FLAT FACE BITS – Spherical buttons		
90029417	137-5089,57-20	87004434
90029402	137-5089-44,57-20	
90029425	137-5102,57-20	87004775
90029424	137-5102-44,57-20	
90029432	137-5115,57-20	
90029429	137-5115-44,57-20	
90029444	137-5127,57-20	
90029439	137-5127-44,57-20	
DOMES BITS – Spherical buttons		
90029766	137-5152-42-24,57-20	87004775

Indexing templates for Secoroc BQ3 grinding machine

T-WiZ60 Powerbits		Indexing templates
Product No.	Product code	Product No.
POWERFACE BITS – Trubbnos buttons, heavy duty (HD)		
90029711	158-6092-21-70,57-20	87003560
90029706	158-6092-21-44-70,57-20	
90029701	158-6095-21-44-70,57-20	
90029696	158-6115-21-44-70,57-20	87003952
90029672	158-6127-21-44-70,57-20	87003953
90029751	158-6140-21-44-70,57-20	87004571
POWERFACE BITS – Trubbnos buttons		
90029449	158-6102-44-70,57-20	87004435
POWERFACE BITS – Spherical buttons, heavy duty (HD)		
90029705	158-6095-21-44,57-20	87003560
90029447	158-6102-21,57-20	87004435
90029450	158-6102-21-44,57-20	
90029695	158-6115-21,57-20	87003952
90029698	158-6115-21-44,57-20	
90029707	158-6127-21,57-20	87003953
90029670	158-6127-21-44,57-20	
90029668	158-6140-21-44,57-20	87004571
90029662	158-6152-21,57-20	87004572
90029664	158-6152-21-44,57-20	
POWERFACE BITS – Spherical buttons		
90029853	158-6121-44,57-20	87003500
FLAT FACE BITS – Spherical buttons, heavy duty (HD)		
90029700	158-5115-21-44,57-20	87004475
FLAT FACE BITS – Spherical buttons		
90029702	158-5095-44,57-20	87004434

ST58 Powerbits		Indexing templates
Product No.	Product code	Product No.
POWERFACE BITS – Trubbnos buttons, heavy duty (HD)		
90029656	151-6089-21-35-70,57-20	87004432
90029658	151-6115-21-35-70,57-20	87003952
POWERFACE BITS – Spherical buttons, heavy duty (HD)		
90029709	151-6089-21,57-20	87004432
90029710	151-6102-21,57-20	87004435

ST68 Powerbits		Indexing templates
Product No.	Product code	Product No.
POWERFACE BITS – Trubbnos buttons, heavy duty (HD)		
90029725	152-6102-21-70,57-20	87004435
90029675	152-6115-21-35-70,57-20	87003952
POWERFACE BITS – Trubbnos buttons		
90029678	152-6102-35-70,57-20	87004435
90029674	152-6115-35-70,57-20	87003952
POWERFACE BITS – Spherical buttons, heavy duty (HD)		
90029732	152-6102-21,57-20	87004435
90029673	152-6115-21-35,57-20	87003952
90029728	152-6127-21,57-20	87003953
90029750	152-6152-21,57-20	87004572
HOLE OPENERS – Spherical buttons		
90029791	152-9152-102,57-20	87003560



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