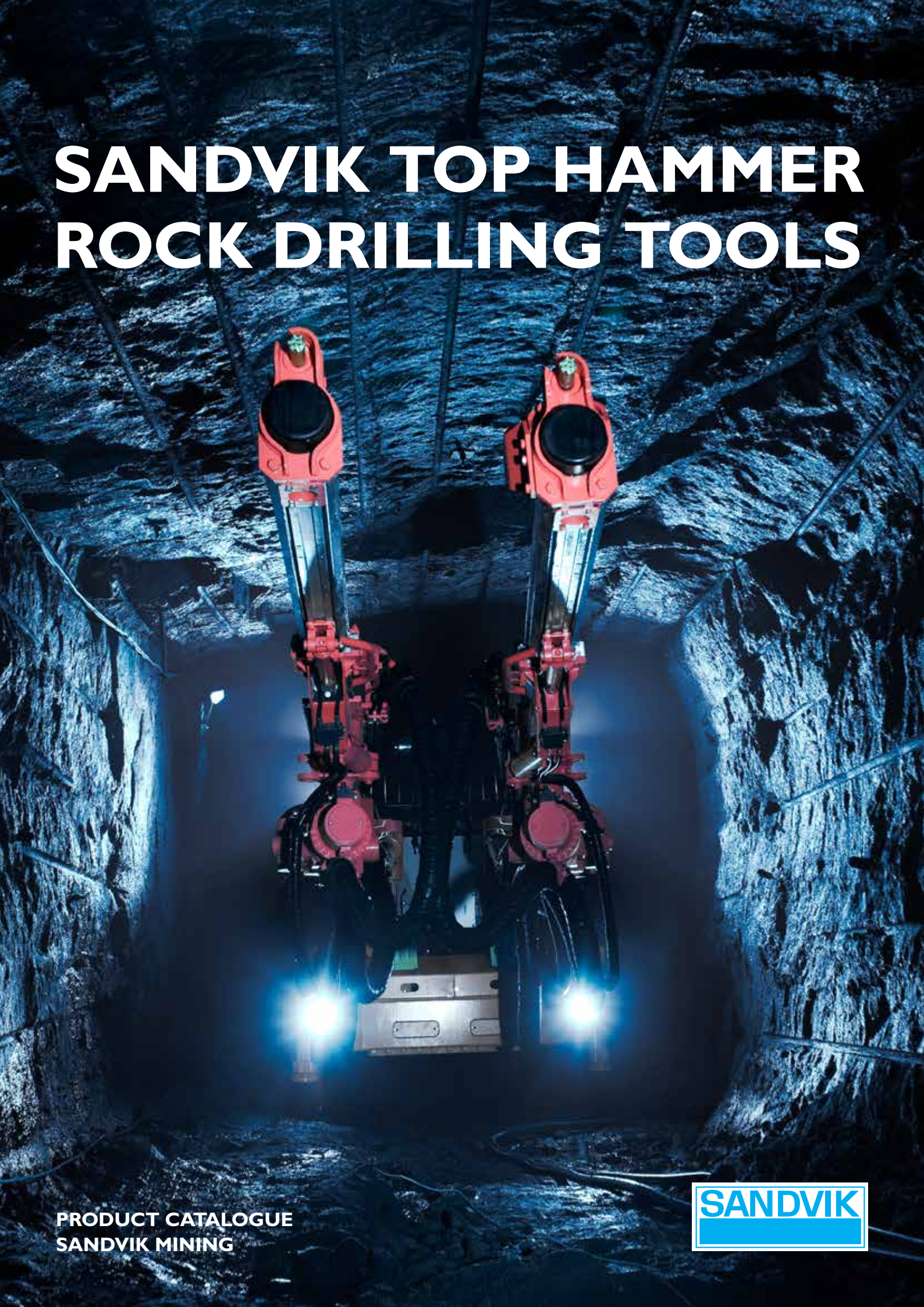
SANDVIK TOP HAMMER ROCK DRILLING TOOLS



PRODUCT CATALOGUE
SANDVIK MINING

SANDVIK

AT SANDVIK WE PUT SAFETY FIRST

With continued demand from mining companies to ensure safety and increase productivity, Sandvik rock tools are committed to providing the support needed – through safe products and product information.

Every site must work with environmental health and safety (EHS) Regulations. EHS procedures should be developed specifically for the operation. All those involved should collect and apply those procedures throughout their work, while constantly examining if they are adequate enough or need modifications. A methodology of risk assessments should be employed.

PERSONAL SAFETY MEASURES

APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT (PPE) SHOULD BE WORN (E.G.):

- Safety helmet
- Hearing protection
- Safety glasses
- Protective and high visibility clothing
- Safety boots

TAKE 5 MINUTES

Consider safety when planning your Schedule. Taking five minutes before the start of a task to consider the possible hazards, perform a quick risk assessment and then plan and apply appropriate control measures is a quick and effective way to prevent incidents that can cause injury and environmental damage.

Plan, sequence and determine the resources required for each step of the job. Consult available procedures.

Identify potential hazards, determine the risk of the hazards and consider appropriate measures to control the hazards. Ensure you have the correct resources to perform the task.

RECOMMENDED SAFETY PROCEDURES

LIFTING PROCEDURES

Use safe and correct lifting practices while working with heavy items. Consider body position, awkwardness of the item and its weight. Are two people required for the lift, is a lifting device necessary?

GRINDING OF BITS

Drill bits have cemented carbide buttons. Cemented carbide is made up of tungsten carbide and cobalt. Grinding buttons will produce dusts or fumes with dangerous ingredients that can be inhaled, swallowed or come in contact with the skin or eyes. Do not breathe dust. Wear protective gloves/protective clothing/eye protection. In case of inadequate ventilation wear respiratory protection. In particular, avoid dry grinding. For more information see page 99.

ASSEMBLY OF BITS

- Do not touch any equipment whilst it is rotating.
- The rod rotation must be stopped before installing or removing a drill bit.
- Follow site instructions for isolation of rotation motors.
- Beware of pinch points between the bit and the rod.

DRILLING WITH HANDHELD EQUIPMENT

Sandvik rock tools are designed and manufactured to the highest standards. A particular hazard exists with handheld drilling equipment, where if the drill rod breaks it can form an impalement hazard if the broken drill steel protrudes from the hole it was drilling, whilst the driller is pushing towards the broken drill steel.

DISASSEMBLY OF HOT BIT, ROD, COUPLING, SLEEVE, SHANK-ADAPTER AND INTERGRAL STEEL

- Ensure products have cooled down before disassembling.
- Never work on hot parts.
- Consider appropriate hand protection (gloves) for handling warm parts.

CLEANING OF RODS

A particular hazard exists with cleaning rods if the rods contain explosives. Sandvik rock tools should never be used in a hole that has been filled with explosive.

DEALING WITH WORN PARTS

Worn parts should be removed and disposed of appropriately. Consider recycling the used drill bits. Please contact your local Sandvik Mining representative for support and further information regarding the recycling process.

STORING

All products should be stored in a dry place and in original package until they are required for use.

GENERAL

The products in this catalog are designed for drilling holes in rock and should only be used for this purpose.

Read more about our Health and Safety Information at page 99.

Göran Fredrik Göransson founded Sandvik in 1862.

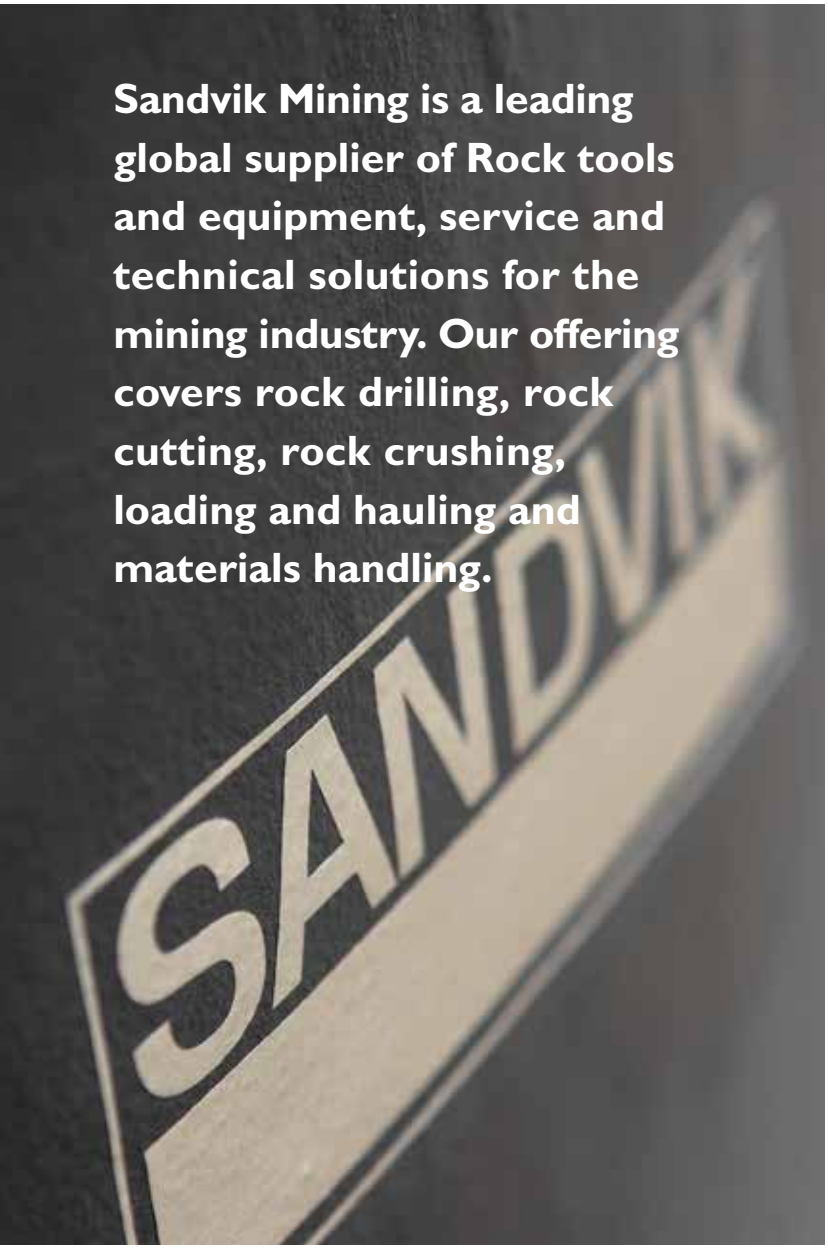
AS THE WORLD CHANGES OUR VALUES REMAIN THE SAME

With 150 years of history it's not surprising that we have seen many changes in our industry. What hasn't changed is our commitment to our core values Open Mind, Team Spirit and Fair Play. By living our values we are an innovative and growing company, meeting the world around us with an open mind.

We pride ourselves in developing and offering the very best solutions for our customers. A major breakthrough for us here at Sandvik was the integral steel in the late 1940's. Overnight, this material revolutionised rock drilling a hundredfold and significantly improved production as well as performance. This Integral drill steel was the first product that was based on the new revolutionary material, cemented carbide and is still the single most important material that makes rock drilling effective and profitable for our customers. Today, we continue to conduct business in close cooperation with our customers, based all over the world. We stand by our promise of being a proactive and innovative partner. We accomplish this by always looking ahead, listening to our customers and their market requirements. We follow developments in society and industry, as well as contributing products and solutions to meet demand.

"In a world where innovation and technology make the difference between good work and great work, being second best just isn't an option for us."

OUR VALUES ARE REPRESENTED IN THE WAY WE DO BUSINESS



Sandvik Mining is a leading global supplier of Rock tools and equipment, service and technical solutions for the mining industry. Our offering covers rock drilling, rock cutting, rock crushing, loading and hauling and materials handling.

▶ OPEN MIND

At Sandvik, we approach the world around us with an open mind to remain a highly innovative and growing company focused on increasing value for our stakeholders. Open Mind invites us to look for innovations and improvements, to value and learn from different perspectives and to take a positive attitude to change. We encourage those who take the initiative and experiment with new ways of working.

▶ TEAM SPIRIT

Within the Sandvik Group, we act together as one team in close cooperation with our stakeholders worldwide. Progress is secured by Sandvik personnel trusting each other as enthusiastic members of a team, with everyone seeking to do their best and showing respect for one another.

▶ FAIR PLAY

At Sandvik, Fair Play is about taking our responsibilities when conducting business. We comply with the high ethical standards stated in the Sandvik Code of Conduct. This means that our business is based on honesty, integrity and trust. Fair Play also requires us to conduct transparent relations with all of our stakeholders.

Continuous improvement – product quality and service is our only job. We believe "there is no best, only better".

RESEARCH AND DESIGN TAKE THE LEAD IN OUR PRODUCTION

Our rock tools are known to all the main mining customers all over the world.

Our tight focus and continuous development work insure the latest technical solutions for the most demanding rock conditions and for the most powerful rock tools, all for the benefit of our customers.

Our products undergo extensive laboratory studies and then, tested fully in the field. Finally evaluated and refined to provide the highest grade of equipment that stands for the Sandvik name.

Our spirit of innovation and high involvement runs through every product. It is preceded by extensive Research & Development. Supported by a worldwide service network offering on-site service, training and round-the-clock support.

Our service-oriented, global organisation is well developed. Sandvik has technical service specialists strategically located around the world to service our customers.

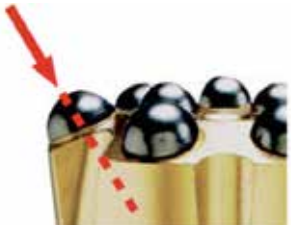
AT SANDVIK SAFETY IS NOT HANDLED LIGHTLY

Safety is also very important for our customers. We are the safe choice for our customers, not only because we lead in safety innovation and functional safety, but also because we do what we promise. In addition to offering our customers' better productivity, Sandvik products and services also enable them to sleep well at night. The reason? Risk is minimised, enabling operations to run smoothly, giving them peace of mind.

WE BRING QUALITY TO EVERY PRODUCT WE DELIVER

A NEW GENERATION IN CEMENTED CARBIDE

With new manufacturing techniques, the XT48 cemented carbide has gained greater density and a more homogenous structure. Toughness has been increased without compromising the exceedingly high wear resistance – making the material stronger, without sacrificing its hardness.



The gauge buttons of a drill bit are exposed to axial forces. Sandvik's former cemented carbides have always been able to handle that type of load with minimal risk of breakage.

When the bit wears, the load angle changes and the risk for button breakage increases. The XT48 cemented carbide has significantly higher resistance to that type failure.

At Sandvik, we take pride in having full control of each processing step and in developing proprietary production processes that further improve our technological capabilities. With production, research and development in-house for the essential key materials for manufacturing rock drilling tools, we continue to develop new products and new cemented carbide grades that enhance our customers' operations through superior performance and reduced costs.

An extensive research project within Sandvik has resulted in a new generation of carbide grades and new larger, stronger, more stable and efficient tools.

This latest generation of carbide grades is manufactured using our own innovative process techniques, with completely new raw materials. With a significantly stronger carbide matrix and a perfect grain size configuration, we are able to deliver superior toughness and high wear temperature resistance to meet the needs of a great number of our customers operations.

SANDVIK GRADE XT48 BIT

- Optimised cutting structure
- Ballistic or super spherical buttons
- XT48 grade carbide
- Deep flushing grooves with optimal positioning
- Optimised wing / head design

WORLD CLASS STEEL PRODUCTION

Sandvik's rolling mill for hollow drill steel is the most up-to-date in the world. Fully automated, this unique mill is designed specifically for manufacturing this product. After rolling, the rods are turned to avoid decarburisation in the final rolling process. A long, straight centre hole is drilled in the drill steel blank and a core is inserted. The blanks are hot-rolled into a round or hexagon-shape. A carefully controlled cooling process after rolling guarantees uniform mechanical properties. The core is then removed and the drill steel is ready for shipping.

SANDVIK ALPHA, FEATURES AN ENTIRELY NEW THREAD DESIGN

The benefits of short threads on hexagonal drill rods are superior resistance to bending stresses, improved bit guidance and outstanding energy transfer. The sturdy thread is well supported inside the bit skirt, resulting in high precision collaring – even in complex rock formations and against uneven surfaces.

MF-DESIGN GIVES STRAIGHTER HOLES

Male-Female (MF) drill rods provide a more rigid drill string then one using extension rods and couplings. This is due to a 50% reduction in thread play of the MF rod connections vs. coupling connections. Drilling with a stiffer drill string results in improved hole straightness, improved efficiency and safety.

STRAIGHT, FAST AND SETTING THE INDUSTRY STANDARD

Compared to the T51 drill rods, GT60 rods have a 40% larger rod cross-section and a 65% higher bending resistance. These improvements double the life of the drill rods and shank adapter. As an added bonus, the rigidity of the GT60 drill rods permit optimum drilling patterns and higher rates of penetration.

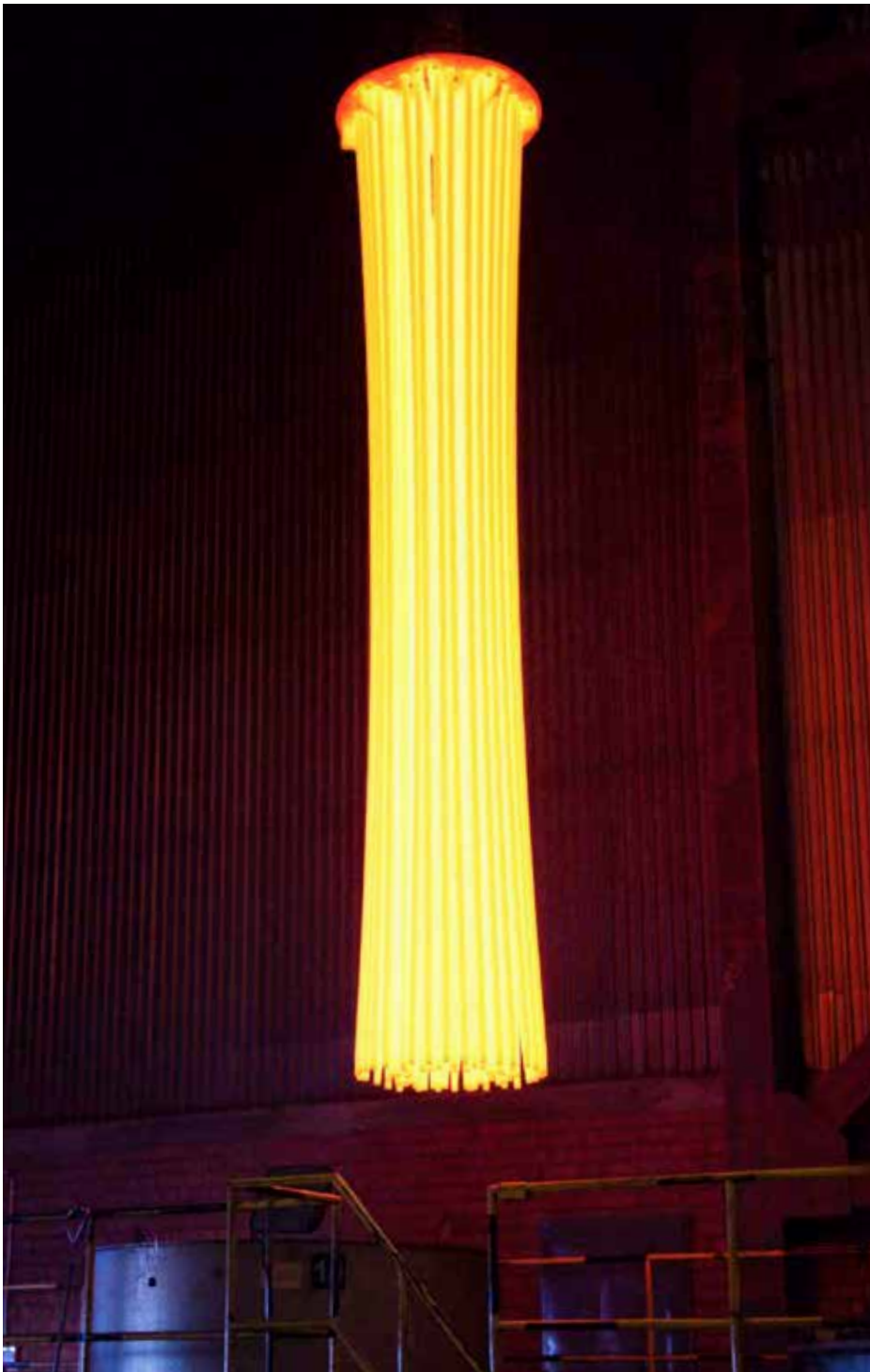
PROCESSES IN ROD MANUFACTURING

CARBURISATION

- Case hardening in a furnace with carbon rich gas
- Increased carbon content in outer layer hardens material

INDUCTION SURFACE HARDENING (HF) + THREADS

- Hard wear resistant surface
- Improved fatigue strength
- Induction hardening of thread
- Rapidly heated and cooled



TWO OF OUR LATEST DEVELOPMENTS BRING GREATER PRODUCTIVITY

The Sandvik GT60 bits has been created in our unique engineering, manufacturing and facility. This has enabled us to tailor the characteristics of the bits to match almost any drilling conditions.

SIX REASONS WHY THE GT60 WORKS FOR YOUR BUSINESS

▶ **1.** The steel in Sandvik *GT60* rods is produced in one of the world's most advanced continuous casting plants. Almost 90 years of experience of rolling hollow bar steel, has made Sandvik unique in being able to produce steel with close tolerances and excellent material properties.

▶ **2.** The Sandvik *GT60* system includes Sandvik button bits to comply with all kinds of rock formations and drilling site conditions.

▶ **3.** The Sandvik *GT60* system provides double the penetration rate, consuming half the energy compared with DTH drilling.

▶ **4.** The Ø 60 mm rod cross-section is optimised for high-energy transfer of impact power in top hammer drilling of Ø 92 to 152 mm holes. Compared with 51 mm rods, the 40% larger cross-section and 65% higher bending stiffness permit faster penetration rates and straighter holes.

▶ **5.** Sandvik *GT60* is perfectly suitable for automatic rod handling systems. Male and female (MF) threads minimise energy losses and simplify handling.

▶ **6.** The large flushing holes provides superior removal of cuttings and improves drilling performance. The exact centring of the hole during manufacture ensures uniform steel walls and uniform product performance.

SANDVIK DEMONSTRATES ITS POWER

The quality of the holes drilled by a Sandvik DP1100 top-hammer rig, with an HL1560T rock drill, was found to be significantly better than those drilled by a competitor's high-pressure, high-volume down-the-hole drill. Utilising an 87 mm diameter, 4.3 m GT60 pilot tube, GT60 4.3 m extension rods, 115 mm ballistic Retrac bits, and HL1560T shank adapters. Holes were drilled in granite to a depth of 20 m and at an angle of 15°. Fuel consumption of the Sandvik DP1100 was significantly lower then the DTH Drill, 42 liters/hr vs. 78 liters/hr.

THE SANDVIK BITS DOUBLES SERVICE LIFE AROUND THE WORLD

Great versatility, higher penetration rates, straighter holes, longer bit life and lower energy consumption. That's what you can expect from the Sandvik bits. An exceptionally versatile series of threaded button-bits from 28–152 mm in diameter. The buttons are made from proprietary grades of cemented carbide. Sandvik provides all the best button shapes (spherical , concial or ballistic) and the required skirt designs (regular or retrac) in order to obtain the best bit for the rock formation in question.

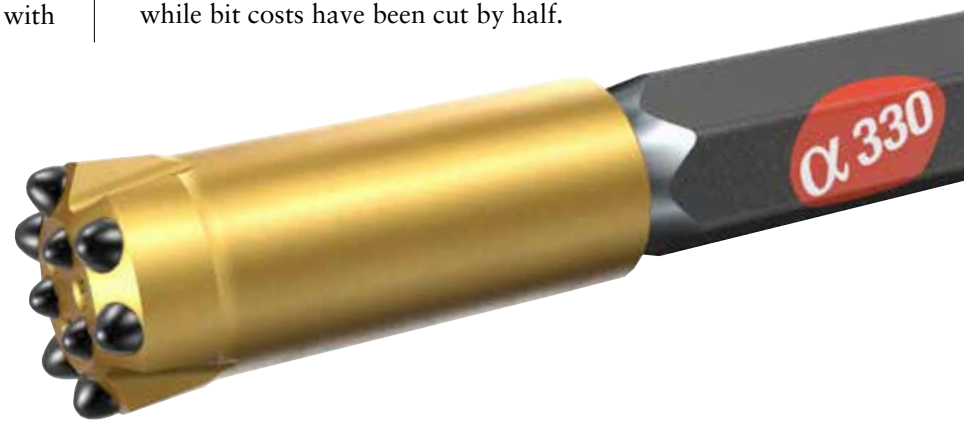
"If button failure is a problem in your rock formation, then certainly you will see a big increase in bit life with Sandvik rock tools."

EXCEEDING EXPECTATIONS

Sandvik Alpha bits exceeded the mine average by 25% in Canada. This figure includes bit damage during uncoupling, but after corrections in procedures the bit performed over 50 % above the mines average in very hard abrasive rock. The new bits could also be regrinded 5–7 times compared to 3–4 with the old standard.

SERVICE LIFE DOUBLES

Management at an Australian mine, welcomed the news of higher productivity and lower costs. Long notorious for button breakages, Sandvik Alpha drill bits are giving almost double the service life compared to drill bits used previously. In a large-scale test, stoppages are down; productivity is up while bit costs have been cut by half.



Drifter bit service life was proven to be at least 20% higher than competition in a Swedish mine.

MAINTAIN PERFORMANCE WITH PROPER CARE AND ATTENTION

Cemented carbide is one of the most successful composite engineering materials produced. Its unique combination of strength, hardness and toughness satisfies the most demanding applications – but working with such high stresses, inserts and buttons are more subject to wear.

The height of the cemented carbide diminishes as wear progresses resulting in wear flats.

Wear to the cemented carbide on the periphery of the bit is abnormally high, causing an “anti-taper” to develop, which diminishes the clearance of the bit.

Here the surface became fatigued with microscopic cracks developing.

BUTTON BITS SHOULD BE REGROUND WHEN PENETRATION RATES DROP OR IF THE CEMENTED CARBIDE SHOWS SIGNS OF DAMAGE

Fixed grinding routines bring with them good working practice. Bits for instance, should be examined then reground after a specific number of holes, or at the end of the shift. Premature grinding is not necessarily uneconomical since less carbide needs to be ground off. It is better to regrind then experience low productivity due to damage.

Proper grinding adds considerably to drill bit service life. Another equally important fact of proper grinding is it also enhances the performance of the entire drilling operation, especially hole straightness.

Grinding should always be done in accordance with safety regulations, read more about our Health and Safety Information at page 99.

THREADS ARE SUBJECTED TO HIGH STRESS AND REQUIRE SPECIAL CARE

LUBRICATION

Thread grease reduces wear and helps in the uncoupling of rods.

Replace the lid on the grease container after use. The grease must be protected from drilling dust, left unprotected it will interact with the dust. Left to act as a grinding compound rather then lubricator next time it is used.

THREAD WEAR

Drilling with worn threads carries a great risk of equipment downtime.

When replacing the drill rods, it is often more economical to replace the coupling as well. Mixing new and old threads can make the newer threads wear more quickly.

BENT AND BLOCKED DRILL STEELS

Not all bent drill steels have to be discarded. They can often be straightened, either in the hole or with a straightening press.

Drill steels and rods flushing holes can become blocked. The blockage can usually be removed with the aid of a copper tube and water flushing.

TRANSPORTATION AND STORAGE

During transportation, bits and cemented components must be packed so as to prevent damage to the cemented carbide. Even though cemented carbide is very resistant to impact against other materials, it is easily damaged by collision with other cemented carbide components.

INCREASED PRODUCTION VS GOOD DRILLING PRACTICE

Good drilling practices and correct machines settings are important for the service life of your drilling tools. Good management and maintenance also play a crucial role in the end cost and schedule.

BIT DIAMETER NOTES

All bit diameters are larger than the given dimensions in the catalog

Cross bits:	Can be a maximum of +1mm due to manufacturing tolerance
Button bits:	Some bit designs can be a maximum +3mm to compensate for fast diameter wear. The minimum diameter for all button bits is +1.5mm above the given dimensions

Keep in mind that a bit always gives a bigger hole than the stated bit diameter.

BIT CLASSIFICATION CODES

H:	Very hard to hard rock.....> 2500 bar (250 MPa)
M:	Medium hard rock.....1500-2500 bar (150-250 MPa)
S:	Soft rock ..... < 1500 bar (150 MPa)

C:	Homogeneous (competent) rock
F:	Fissured rock

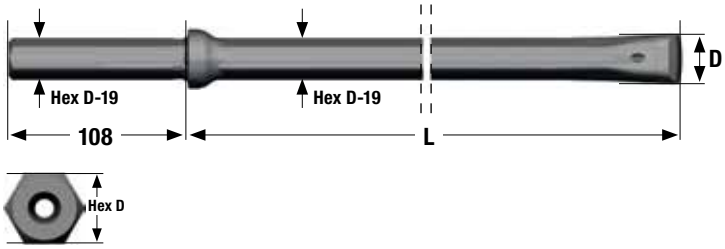
V:	Very abrasive rock ..... > 40% silica
A:	Abrasive rock ..... 20-40% silica
N:	Non-abrasive rock ..... 0-20% silica

INCREASE SERVICE LIFE AND EXTEND PRODUCTIVITY

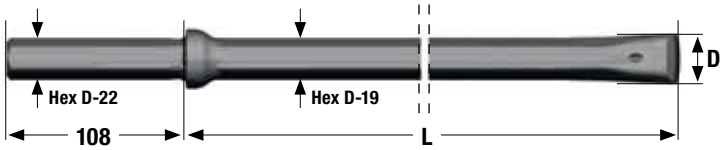
Integral drill steels, tapered rods, drill bits and threaded rods are key to highproductivity in all applications. Sandvik drill steel has high fatigue strength and toughness, offers high wear resistance giving an efficient and economic drilling operation. Our unique R23 rods and bits for extension drilling provide the strongest thread in hole sizes 33–45 mm. For Underground applications we have fully carburized rods with superior wear resistance and service life. In fact working with Sandvik means you can expect consistent high quality and maximum operational dependability when it comes to all small hole drilling applications.

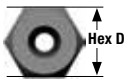
SMALL HOLE DRILLING

H19 (3/4") Integral drill steels



	Dimensions D						Part No.
	Series	L mm	ft	in	D mm	in	
Shank 19 x 108 mm (3/4" x 4 1/4")							
	21	400	1'	4"	29	19/64"	**724-0429**
	-	800	2'	7"	28	1 7/64"	**724-0828**
	-	1600	5'	3"	27	1 1/16"	**724-1627**
	-	2400	7'	10"	26	1 1/32"	**724-2426**
	24	600	2'	–	27	1 1/16"	**724-0627**
	-	1200	3'	11"	26	1 1/32"	**724-1226**
	Boulder-steel	400	1'	4"	24	15/16"	**724-0424**
		800	2'	7"	23	29/32"	**724-0823**

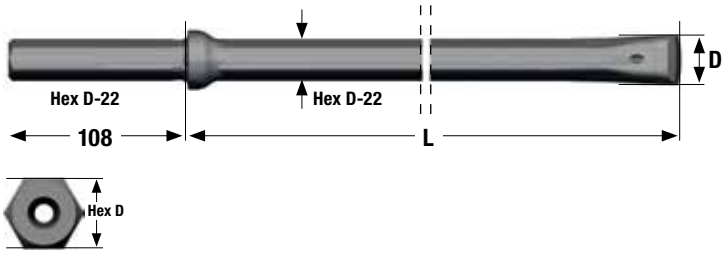




Shank 22 x 108 mm (7/8" x 4 1/4")							
		400	1'	4"	24	15/16"	**728-0424**
		400	1'	4"	29	1 9/64"	**728-0429**
		800	2'	7"	28	1 7/64"	**728-0828**
		1600	5'	3"	27	1 1/16"	**728-1627**

SMALL HOLE DRILLING

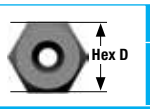
H22 (7/8”) Integral drill steels



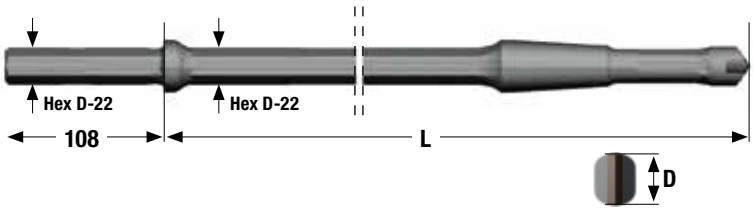
Series	L mm	ft	in	D mm	in	Part No.
Shank 22x108 mm (7/8” x 4 1/4”)						
11	800	2'	7"	34	1 11/32"	**714-0834-65**
	1600	5'	3"	33	1 19/64"	**714-1633-65**
	2400	7'	10"	32	1 1/4"	**714-2432-65**
	3200	10'	6"	31	1 7/32"	**714-3231**
	4000	13'	1"	30	1 3/16"	**714-4030**
	4800	15'	9"	29	1 9/64"	**714-4829**
	5600	18'	4"	28	1 7/64"	**714-5628-50**
	6400	21'	–	27	1 1/16"	**714-6427-50**
	7200	23'	8"	26	1 1/32"	**714-7226-50**
12	800	2'	7"	40	1 37/64"	**714-0840-65**
	1600	5'	3"	39	1 17/32"	**714-1639-65**
	2400	7'	10"	38	1 1/2"	**714-2438-65**
	3200	10'	6"	37	1 29/64"	**714-3237-65**
	4000	13'	1"	36	1 27/64"	**714-4036-65**
	4800	15'	9"	35	1 3/8"	**714-4835-65**
	5600	18'	4"	34	1 11/32"	**714-5634-65**
	6400	21'	–	33	1 19/64"	**714-6433-65**
	7200	23'	8"	32	1 1/4"	**714-7232-65**
13	400	1'	4"	34	1 11/32"	**714-0434-65**
	800	2'	7"	33	1 19/64"	**714-0833-65**
	1200	3'	11"	32	1 1/4"	**714-1232-65**
	1600	5'	3"	31	1 7/32"	**714-1631**
	2000	6'	7"	30	1 3/16"	**714-2030**
16	600	2'	–	35	1 3/8"	**714-0635-65**
	1200	3'	11"	34	1 11/32"	**714-1234-65**
	1800	5'	11"	33	1 19/64"	**714-1833-65**
	2400	7'	10"	32	1 1/4"	**714-2432-65**
17	600	2'	–	41	1 5/8"	**714-0641-65**
	1200	3'	11"	40	1 37/64"	**714-1240-65**
	1800	5'	11"	39	1 17/32"	**714-1839-65**
	2400	7'	10"	38	1 1/2"	**714-2438-65**
	2000	6'	7"	33	1 19/64"	**714-2033-65**
	8000	26'	3"	26	1 1/32"	**714-8026-50**
	8800	28'	11"	25	1"	**714-8825-5005**
	9600	31'	6"	25	1"	**714-9625-5005**
	800	2'	7"	29	1 9/64"	**714-0829**
	1600	5'	3"	28	1 7/64"	**714-1628-50**
	2400	7'	10"	27	1 1/16"	**714-2427-50**

SMALL HOLE DRILLING

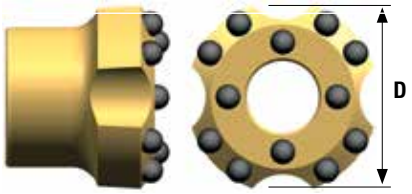
H22 Reaming tools



	Dimensions D					Part No.
	L mm	ft	in	D mm	in	
Pilot rod, Hex 22, 6° taper						
	800	2'	7 1/2"	26	1 1/32"	**7922-6108-11**
	1200	3'	11 3/4"	26	1 1/32"	**7922-6112-11**
	2000	6'	6 3/4"	26	1 1/32"	**7922-6120-11**
	2400	8'	2 1/2"	26	1 1/32"	**7922-6124-11**

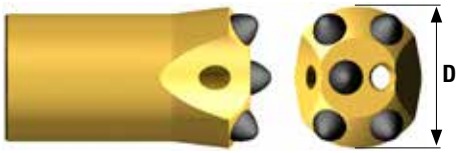
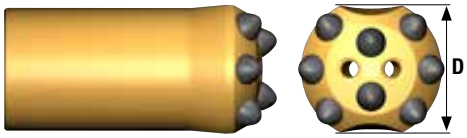


	Buttons, mm		Angle	Dimensions D		Part No.
	Front No Size	Gauge No Size		mm	in	
Reaming tools for cut holes / Reaming bit, 6° taper						
	4x8	8x9	25°	64	2 1/2"	**7722-4864-S48**
	4x10	8x10	30°	76	3"	**7722-4876-S48**
	6x10	8x10	30°	89	3 1/2"	**7722-4889-S48**



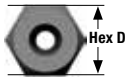
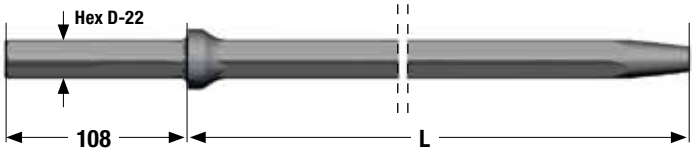
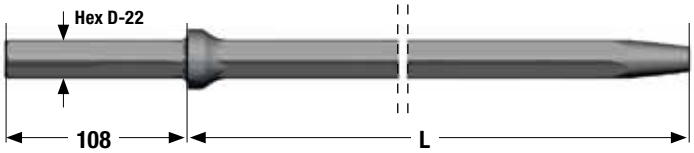
SMALL HOLE DRILLING

H22 Tapered tools, 12° taper

Bits	Flushing hole, mm		Buttons, mm		Angle	Dimensions D		Part No.
	Front No Size	Gauge No Size	Front No Size	Gauge No Size		mm	in	
Button bit								
	1x5	1x5	1x7	4x7	35°	28	1 1/8"	**7795-6428-B48**
	1x5	1x5	1x7	4x7	35°	30	1 3/16"	**7795-6430-B48**
Button bit								
	2x4	1x4	2x7	5x7	40°	32	1 1/4"	**7795-5232-B48**
	2x4	1x4	2x7	5x8	40°	35	1 3/8"	**7795-5235-B48**
	2x4	1x4	2x7	5x9	40°	38	1 1/2"	**7795-5238-B48**
Button bit								
	2x4	1x4	2x7	5x7	40°	33	1 9/64"	**7770-5233-B48**
	2x4	1x4	2x7	5x8	35°	35	1 3/8"	**7770-5235-B48**
Button bit								
	1x4	1x6	2x7	5x7	35°	33	1 9/64"	**7770-4433-B48**
	1x5	1x5	2x7	5x7	35°	35	1 3/8"	**7770-4435-B48**
Button bit								
	2x4	1x4	6x7	2x7	40°	33	1 9/64"	**7770-5433-B48**
Cross bit								
	1x4	2x4	–	–	–	30	1 3/16"	**7770-9030-42**
	1x6	2x4.5	–	–	–	32	1 1/4"	**7770-9032-42**
	1x6	2x4.5	–	–	–	35	1 3/8"	**7770-9035-42**

SMALL HOLE DRILLING

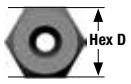
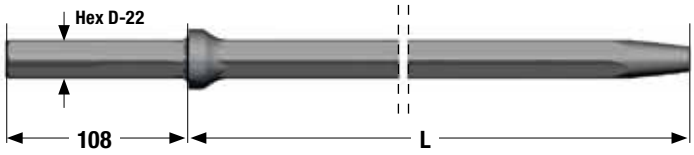
H22 Tapered tools, 12° taper

Rods		Dimensions D					Part No.
		L mm	ft	in	Hex D mm	in	
Tapered rod, shank 22x108, carburized							
		610	2'	–	22	7/8"	**7870-6106-11**
		1220	4'	–	22	7/8"	**7870-6112-11**
		1830	6'	–	22	7/8"	**7870-6118-11**
		2000	6'	7”	22	7/8"	**7870-6120-11**
		2440	8'	–	22	7/8"	**7870-6124-11**
		3050	10'	–	22	7/8"	**7870-6131-11**
		3200	10'	6”	22	7/8"	**7870-6132-11**
		3660	12'	–	22	7/8"	**7870-6137-11**
Tapered rod, shank 22x108, HF-hardened - For surface drilling							
		2440	8'	–	22	7/8"	**7870-5124-11**
		3200	10'	6”	22	7/8"	**7870-5132-11**
		4000	13'	1 1/2”	22	7/8"	**7870-1140-11**
		4400	14'	5”	22	7/8"	**7870-1144-11**
		4800	15'	9”	22	7/8"	**7870-1148-11**
		5600	18'	4 1/2”	22	7/8"	**7870-1156-11**
		6400	21'	–	22	7/8"	**7870-1164-11**
		7200	23'	7 1/2”	22	7/8"	**7870-1172-11**
		8000	26'	3”	22	7/8"	**7870-1180-11**
		8800	28'	10 1/2”	22	7/8"	**7870-1188-11**

SMALL HOLE DRILLING

H22 Tapered tools, 11° taper

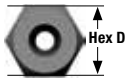
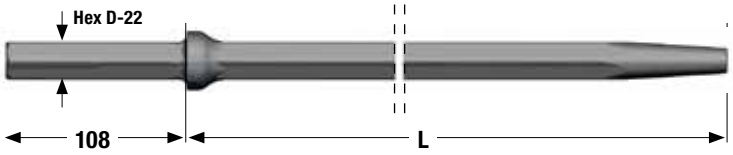
Bits	Flushing hole, mm		Buttons, mm		Angle	Dimensions D		Part No.
	Front No Size	Gauge No Size	Front No Size	Gauge No Size		mm	in	
Button bit								
	1x6	1x6	2x8	3x9	40°	38	1 1/2"	**7776-1938-B48**
	1x6	1x6	2x8	3x9	40°	40	1 37/64"	**7776-1940-B48**
Button bit								
	1x5	1x5	2x7	5x7	40°	32	1 1/4"	**7776-4432-B48**
	1x5	1x5	2x7	5x8	40°	35	1 3/8"	**7776-4435-B48**
	1x5	1x5	2x7	5x8	35°	36	1 7/16"	**7776-4436-B48**
	1x5	1x5	2x7	5x8	35°	38	1 1/2"	**7776-4438-B48**
	1x6	1x6	2x8	5x9	35°	40	1 37/64"	**7776-4440-B48**

Rods		Dimensions D					Part No.
		L mm	ft	in	Hex D mm	in	
Tapered rod, shank 22x108, carburized							
		610	2'	–	22	7/8"	**7876-6106-11**
		800	2'	7 1/2"	22	7/8"	**7876-6108-11**
		1220	4'	–	22	7/8"	**7876-6112-11**
		1600	5'	3"	22	7/8"	**7876-6116-11**
		1830	6'	–	22	7/8"	**7876-6118-11**
		2000	6'	7"	22	7/8"	**7876-6120-11**
		2440	8'	–	22	7/8"	**7876-6124-11**
		3050	10'	–	22	7/8"	**7876-6131-11**
		3600	11'	9 1/2"	22	7/8"	**7876-6136-11**

SMALL HOLE DRILLING

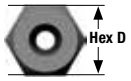
H22 Tapered tools, 7° taper

Bits	Flushing hole, mm		Buttons, mm		Angle	Dimensions D		Part No.
	Front No Size	Gauge No Size	Front No Size	Gauge No Size		mm	in	
Button bit								
	2x5	1x5	2x7	5x7	40°	32	1 1/4"	**7788-5232-B48**
	2x4	1x4	2x7	5x7	40°	33	1 9/64"	**7788-5233-B48**
	2x4	1x4	2x7	5x8	40°	35	1 3/8"	**7788-5235-B48**
	2x4	1x4	2x7	5x8	35°	38	1 1/2"	**7788-5238-B48**

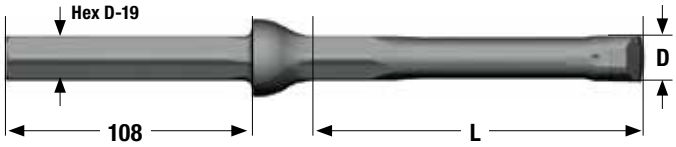
Rods		Dimensions D					Part No.
		L mm	ft	in	Hex D mm	in	
Tapered rod, shank 22x108, carburized							
		2400	8'	–	22	7/8"	**7888-6124-11**
		3200	10'	6"	22	7/8"	**7888-6132-11**

SMALL HOLE DRILLING

Stone working tools



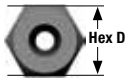
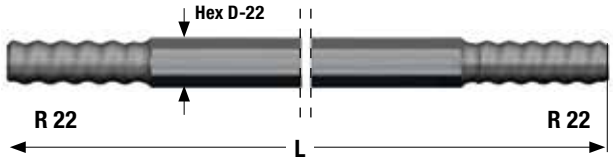
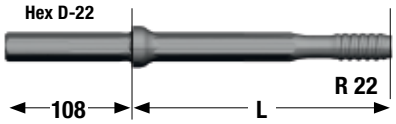
Dimensions D					Part No.
L mm	ft	in	D mm	in	
Plug hole integral steel					
150		6"	17	21/32"	**721-1517**
160		6 1/4"	20	25/32"	**721-1620**
200		7 7/8"	20	25/32"	**721-2020**
240		9 29/64"	20	25/32"	**721-2420**
280		11 1/32"	20	25/32"	**721-2820**
310		11 1/4"	20	25/32"	**721-3120**
160		6 1/4"	22	7/8"	**721-1622**
190		7 1/2"	22	7/8"	**721-1922**



SMALL HOLE DRILLING

R22 (7/8") Extension drilling tools

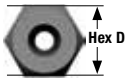
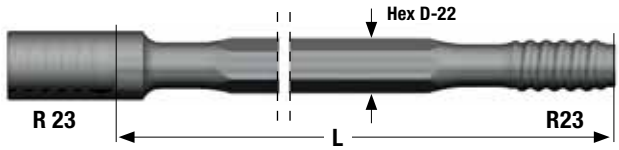
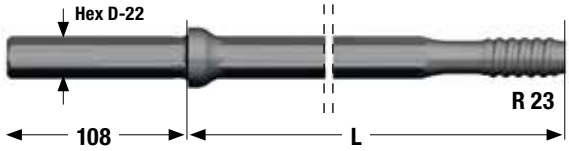
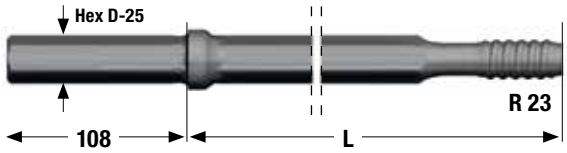
Cross bit	Flushing hole, mm		Buttons, mm		Angle	Dimensions D		Part No.
	Front No Size	Gauge No Size	Front No Size	Gauge No Size		mm	in	
Cross bit								
	1	4.5	2	4.5	–	38	1 1/2"	**7731-1038-42**

		Dimensions D					Part No.
		L mm	ft	in	D mm	in	
Extension rod R22 - Hex 22 - R22							
		800	2'	7"	22	7/8"	**7851-1308-20**
		1200	3'	11"	22	7/8"	**7851-1312-20**
		1600	5'	3"	22	7/8"	**7851-1316-20**
Shank adapter/Shank rod, Hex 22 - R22							
		255	–	10 3/64"	22	7/8"	**7801-6103-11**
Coupling sleeve, R22							
		140	–	5 1/2"	31	1 7/32"	**7991-2031**

SMALL HOLE DRILLING

R23 (29/32") Extension drilling tools

Bits	Flushing hole, mm		Buttons, mm		Angle	Dimensions D		Bit Classification	Part No.
	Front No Size	Gauge No Size	Front No Size	Gauge No Size		mm	in		
Button bit									
	1x4	1x6	2x7	5x7	35°	33	1 5/16"	HMCA	**7737-4433-R48**
	1x6	1x6	2x7	5x8	40°	35	1 3/8"	HMCA	**7737-5235-R48**
	1x6	1x6	2x7	5x8	35°	38	1 1/2"	HMCA	**7737-5238A-R48**
	1x6	1x6	2x8	5x9	35°	41	1 5/8"	HMCA	**7737-5241-R48**
Button bit									
	3x5	–	3x8	6x9	30°	45	1 3/4"	HMCA	**7737-5345-R48**

Rods		Dimensions D					Part No.
		L mm	ft	in	Hex D mm	in	
MF-rod, R23 - Hex 22 - R23							
		2095	6'	10 1/2"	22	7/8"	**7857-4821-20**
		3050	10'	–	22	7/8"	**7857-4831-20**
Female end Ø 31 mm							
Shank adapter / Shank rod, Hex 22 - R23							
		255	–	10 3/64"	22	7/8"	**7807-6103-11**
		800	**2'**	**7"**	**22**	**7/8"**	**7807-6108-11**
		1600	**5'**	**3"**	**22**	**7/8"**	**7807-6116-11**
		2400	8'	–	22	7/8"	**7807-6124-11**
		3200	10'	–	22	7/8"	**7807-6132-11**
		3600	11'	9 5/8"	22	7/8"	**7807-6136-11**
Shank adapter / Shankrod Hex 25 - R 23							
		255	–	10 3/64"	25	1"	**7807-7103-30**
		3600	11'	9 "	25	1"	**7807-7136-30**

SMALL HOLE DRILLING

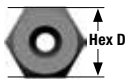
R25 (1") Extension drilling tools

Bits

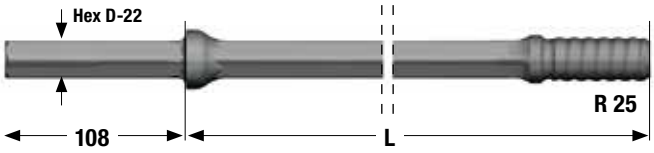
Flushing hole, mm		Buttons, mm		Angle	Dimensions D		Bit Classification	Part No.
Front No Size	Gauge No Size	Front No Size	Gauge No Size		mm	in		
Button bit								
1x4	1x6	2x7	5x8	35°	35	1 3/8"	HMCA	**7732-4435-S48** !
1x5	1x6	2x7	5x8	40°	35	1 3/8"	HMCA	**7732-5235-R48**
1x6	1x6	2x7	5x9	30°	38	1 1/2"	HMCA	**7732-5238-S48**
1x6	1x6	2x7	5x9	35°	38	1 1/2"	HMCA	**7732-5238-R48**
1x6	1x6	2x8	5x9	35°	41	1 5/8"	HMCA	**7732-5241-S48**
1x6	1x6	2x8	5x9	35°	41	2 5/8"	HMCA	**7732-5241-R48**

Button bit								
3x4.5	–	3x8	6x9	40°	45	1 3/4"	MSCFAN	**7732-5345F-R48**

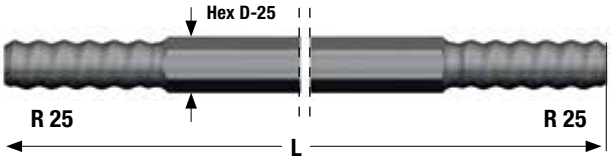
Rods



Dimensions D					Part No.
L mm	ft	in	Hex D mm	in	
Shank adapter / rod, Hex 22 x R25					
255	–	10 3/64"	22	7/8"	**7802-6103-11**
800	2'	7"	22	7/8"	**7802-6108-11**
1000	3'	3"	22	7/8"	**7802-6110-11**



Extension rod, R25 - Hex 25 - R25					
915	3'	–	25	1"	**7852-2309-20**
1220	4'	–	25	1"	**7852-2312-20**
1525	5'	–	25	1"	**7852-2315-20**
1830	6'	–	25	1"	**7852-2318-20**
2435	8'	–	25	1"	**7852-2324-20**
3050	10'	–	25	1"	**7852-2331-20**



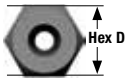
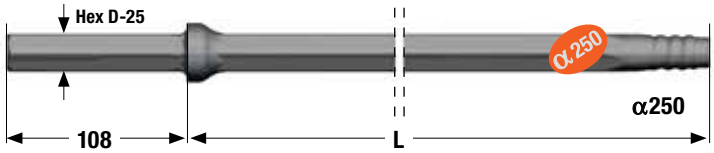
Coupling sleeve, R25					
160	–	6 1/4"	35	1 3/8"	**7992-2035**

! – *For one-rod drilling*

SMALL HOLE DRILLING

Sandvik Alpha. α250 bit thread

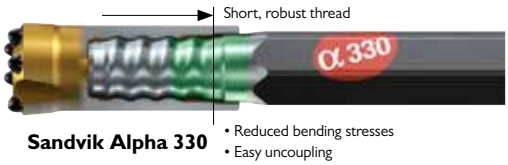
Bits	Flushing hole, mm		Buttons, mm		Angle	Dimensions D		Bit Classification	Part No.
	Front No Size	Gauge No Size	Front No Size	Gauge No Size		mm	in		
Button bit									
	1x6	1x6	2x7	5x9	35°	38	1 1/2"	HMCA	**7764-5238-R48**
Button bit									
	3x4.5	–	3x8	6x9	40°	45	1 3/4"	MSCFAN	**7764-5345F-R48**

Rods		Dimensions D					Part No.
		L mm	ft	in	Hex D mm	in	
Shank rod, Hex 25 - α250							
		3600	11'	9 5/8 "	25	1"	**7814-7136-30**

PRECISION ENGINEERING FOR STRAIGHTER DRILL HOLES

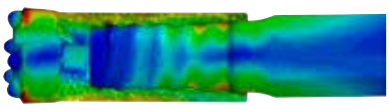
- Short thread design with sturdy guides, well inside the bit skirt offers higher precision in collaring – even in complex rock formations and uneven surfaces.
- Rigid drill string results in straighter holes, permitting optimum drilling patterns and higher rate of advance.
- Exact collaring and straighter holes are prerequisites for productive drilling with less over break and lower overall costs.
- Hexagonal rods in the tool system result in a rigid, integrated power pack drill string results in superior resistance to bending stresses and gives improved bit guidance as well as perfect energy transfer.
- More efficient energy transmission with minimal wear on all components in the drilling system.
- Short thread and robust guide improves service life on drifter rods with at least +30% compared to R32 rods.

NEW DESIGN PROVIDES TROUBLE FREE OPERATION



Sandvik Alpha 330

- Reduced bending stresses
- Easy uncoupling



Advanced analysis have been used to simulate and locate critical bending stresses of various designs to arrive at an optimally dimensioned rod / bit connection.

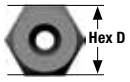
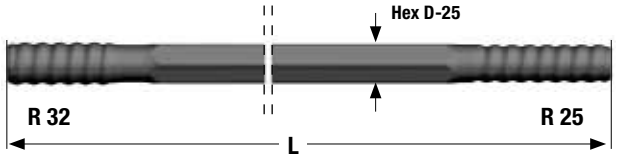
SANDVIK ALPHA ROD/BIT CONNECTIONS TAKE DRILLING PRODUCTIVITY TO A NEW LEVEL

Sandvik engineers are constantly engaged in upgrading our tool systems. Supported by our in-house manufacturing facilities, the results of their work speaks for themselves, providing new profitable solutions for all rock drilling professionals.

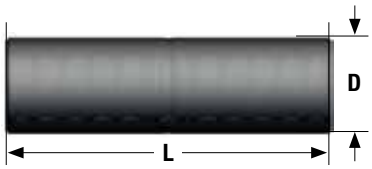
DRIFTING AND TUNNELING

R25 (1") bit thread

Bits	Flushing hole, mm		Buttons, mm		Angle	Dimensions D		Bit Classification	Part No.
	Front No Size	Gauge No Size	Front No Size	Gauge No Size		mm	in		
Button bit, type 52									
	1x4,5	1x6	2x7	5x7	45°	33	1 5/16"	HMCA	**7732-4433C-S48**
	1x5	1x6	2x7	5x9	30°	35	1 3/8"	HMCA	**7732-4435-S48**
	1x5	1x6	2x7	5x9	30°	37	7/16"	HMCA	**7732-4437C-S48**
	1x6	1x6	2x7	5x9	30°	38	1 1/2"	HMCA	**7732-5238-S48**
	1x6	1x6	2x7	5x9	35°	38	1 1/2"	MCAN	**7732-5238-R48**
	1x6	1x6	2x8	5x9	35°	41	1 5/8"	HMCA	**7732-5241-S48**
Cross bit									
	1x5	2x5				35	1 3/8"	-	**7732-1435-42**

Rods		Dimensions D					Part No.
		L mm	ft	in	D mm	in	
Drifter rod, R32 - Hex 25 - R25							
		1870	6'	1 5/8"	25	1"	**7853-2418-20**
		2175	7'	1 5/8"	25	1"	**7853-2421-20**
		2475	8'	1 1/2"	25	1"	**7853-2424-20**
		2630	8'	7 1/2"	25	1"	**7853-2426-20**
		2785	9'	1 5/8"	25	1"	**7853-2427-20**
		2935	9'	7 1/2"	25	1"	**7853-2429-20**
		3090	10'	1 5/8"	25	1"	**7853-2431-20**
		3340	10'	11 1/2"	25'	1"	**7853-2433-20**
		3700	12'	1 5/8"	25'	1"	**7853-2437-20**

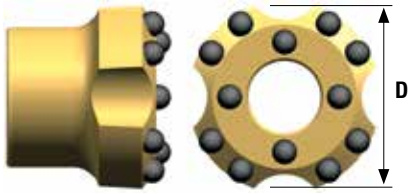
Flushing hole Ø 8,6 mm

Coupling sleeve, R32						
	150		5 29/32"	44	1 47/64"	**7993-3644**

DRIFTING AND TUNNELING

R25 (1") reaming tools

	Thread	Dimensions D					Part No.
		L mm	ft	in	D mm	in	
Reaming tools for cut holes / Pilot adapter, 6° taper							
	R25	-	-	-	26	1 1/32"	**7822-2526**

	Buttons, mm		Angle	Dimensions D		Part No.
	Front No Size	Gauge No Size		mm	in	
Reaming tools for cut holes / Reaming bit, 6° taper						
	4x8	8x9	25°	64	2 1/2"	**7722-4864-S48**
	4x10	8x10	30°	76	3"	**7722-4876-S48**
	6x10	8x12	35°	89	3 1/2"	**7722-4889-S48**

DRIFTING AND TUNNELING

R28 (1 1/8") bit thread

Bits

Button bit, type 52

Flushing hole, mm		Buttons, mm		Angle	Dimensions D		Bit Classification	Part No.
Front No Size	Gauge No Size	Front No Size	Gauge No Size		mm	in		
1x5	1x6	2x7	5x9	30°	37	7/16"	HMCA	7739-5237-S48
1x6	1x6	2x7	5x9	35°	38	1 1/2"	MCAN	7739-5238-R48
1x6	1x6	2x7	5x9	30°	38	1 1/2"	HMCA	7739-5238-S48
1x6	1x6	2x8	5x9	35°	41	1 5/8"	HMCA	7739-5241-S48
1x6	1x6	2x8	5x10	30°	43	1 11/16"	HMCA	7739-5243-S48

Cross bit

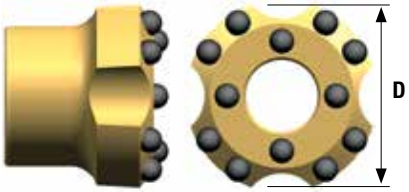
1x5	2x5	-	-		38	1 1/2"		7739-1438-42

Reaming tools

Reaming tools for cut holes / Pilot adapter, 6° taper

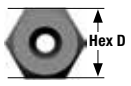
Thread	Dimensions D					Part No.
	L mm	ft	in	D mm	in	
R28	-	-	-	26	1 1/32"	7822-1526

Reaming tools for cut holes / Reaming bit, 6° taper

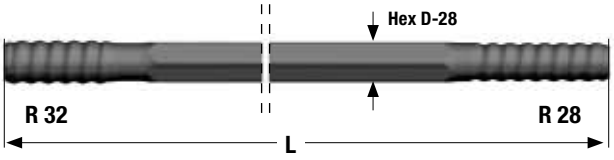


Buttons, mm		Angle	Dimensions D		Part No.
Front No Size	Gauge No Size		mm	in	
4x8	8x9	25°	64	2 1/2"	7722-4864-S48
4x10	8x10	30°	76	3"	7722-4876-S48
6x10	8x12	35°	89	3 1/2"	7722-4889-S48

Rods



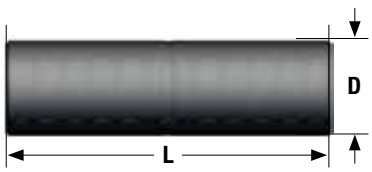
Drifter rod, R32 - Hex 28 - R28



Dimensions D					Part No.
L mm	ft	in	D mm	in	
2475	8'	1 1/2"	28	1 1/8"	7853-7624-20
2785	9'	1 5/8"	28	1 1/8"	7853-7627-20
3090	10'	1 5/8"	28	1 1/8"	7853-7631-20
3700	12'	1 5/8"	28	1 1/8"	7853-7637-20
4305	14'	1 1/2"	28	1 1/8"	7853-7643-20

Flushing hole Ø 8,8 mm

Coupling sleeve, R32



150		5 29/32"	44	1 47/64"	7993-3644

DRIFTING AND TUNNELING

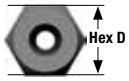
R32 (1 1/4") bit thread

Bits	Flushing hole, mm		Buttons, mm		Angle	Dimensions D		Bit Classification	Part No.
	Front No Size	Gauge No Size	Front No Size	Gauge No Size		mm	in		
Button bit, type 52									
	1x5	2x6	2x9	5x10	35°	43	1 11/16"	HMCVA	**7733-5243A-S48**
	1x5	2x6	2x9	5x11	30°	45	1 3/4"	HMCVA	**7733-5245A-S48**
	1x6	2x7.5	2x9	5x11	35°	48	1 7/8"	HMCVA	**7733-5248A-S48**
	1x6	2x7.5	2x10	5x12	35°	51	2"	HMCVA	**7733-5251A-S48**
Button bit, type 54									
	2x6	2x6	2x9	6x9	40°	43	1 11/16"	MSCAN	**7733-5443B-R48**
	2x6	2x6	2x9	6x10	35°	45	1 3/4"	MSCAN	**7733-5445B-R48**
Button bit, type 53/16									
	3x4.5	1x4.5	3x8	6x9	30°	43	1 11/16"	MSCAN	**7733-5343A-R48**
	3x4.5	1x5	3x8	6x10	25°	45	1 3/4"	HMCAN	**7733-5345A-S48**
	3x4.5	1x5	3x8	6x10	30°	45	1 3/4"	MSCAN	**7733-5345A-R48**
	3x5	1x5	3x9	6x10	30°	48	1 7/8"	HMCAN	**7733-5348A-S48**
	3x5	1x5	3x9	6x10	30°	48	1 7/8"	HMCAN	**7733-5348A-R48**
	3x6	1x6	3x9	6x10	35°	51	2"	MSCAN	**7733-1651A-S48**
	3x6	1x6	3x9	6x10	40°	51	2"	MSCAN	**7733-1651A-R48**
	3x6	1x6	3x10	6x11	35°	57	2 1/4"	HMCA	**7733-1657A-S48**
	3x7	–	3x11	6x12	30°	64	2 1/2"	HMCVA	**7733-1664-S48**
Button bit, type 55									
	3x5.5	3x5,5	3x9	3x9	40°	45	1 3/4"	SCFN	**7733-5545A-C60**
	3x6	1x6	3x9	6x10	40°	51	2"	SCFN	**7733-5551A-C60**
Button bit, type 18									
	4x7	–	5x11	8x12	35°	76	3"	HMCVA	**7733-1876-S48**
Cross bit									
	1x5	4x6	-	-	-	45	1 3/4"		**7733-1345A-42**

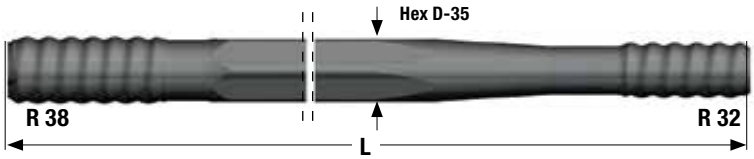
DRIFTING AND TUNNELING

R32 (1 1/4") bit thread

Rods

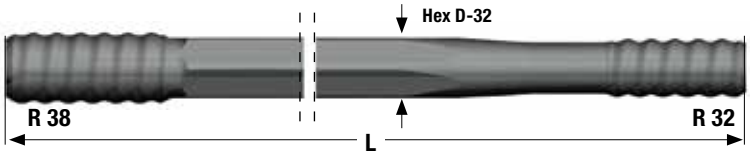


Dimensions D					Part No.
L mm	ft	in	D mm	in	
Drifter rod, R38 - Hex 35 - R32					
3090	10'	1 5/8"	35	1 3/8"	**7854-9631-20**
3700	12'	1 5/8"	35	1 3/8"	**7854-9637-20**
4305	14'	1 1/2"	35	1 3/8"	**7854-9643-20**
4915	16'	1 1/2"	35	1 3/8"	**7854-9649-20**
5525	18'	1 1/2"	35	1 3/8"	**7854-9655-20**



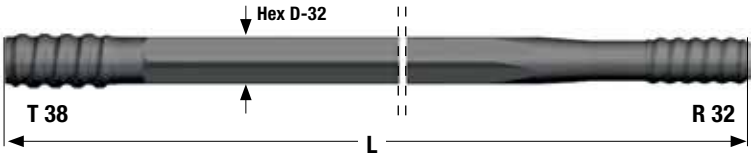
Flushing hole Ø 9,5 mm

Drifter rod, R38 - Hex 32 - R32					
3090	10'	1 5/8"	32	1 1/4"	**7854-8631-20**
3700	12'	1 5/8"	32	1 1/4"	**7854-8637-20**
4305	14'	1 1/2"	32	1 1/4"	**7854-8643-20**
4915	16'	1 1/2"	32	1 1/4"	**7854-8649-20**



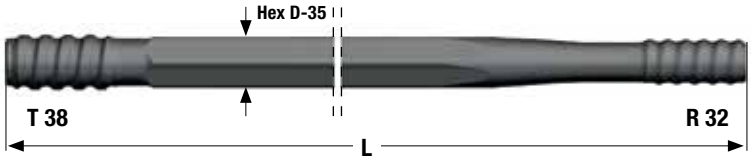
Flushing hole Ø 9,6 mm

Drifter rod, T38 - Hex 32 - R32					
3700	12'	1 5/8"	32	1 1/4"	**7324-8637-20**
4305	14'	1 1/2"	32	1 1/4"	**7324-8643-20**



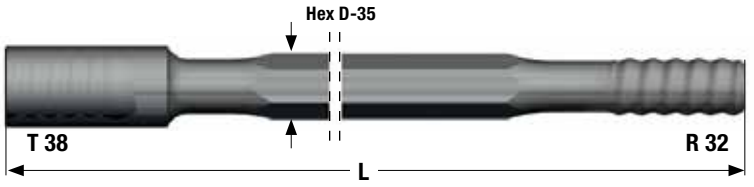
Flushing hole Ø 9,6 mm

Drifter rod, T38 - Hex 35 - R32					
3090	10'	1 5/8"	35	1 3/8"	**7324-9631-20**
3700	12'	1 5/8"	35	1 3/8"	**7324-9637-20**
4305	14'	1 1/2"	35	1 3/8"	**7324-9643-20**
4915	16'	1 1/2"	35	1 3/8"	**7324-9649-20**
5525	18'	1 1/2"	35	1 3/8"	**7324-9655-20**
6135	20'	1 1/2"	35	1 3/8"	**7324-9661-20**
6440	21'	1 1/2"	35	1 3/8"	**7324-9664-20**



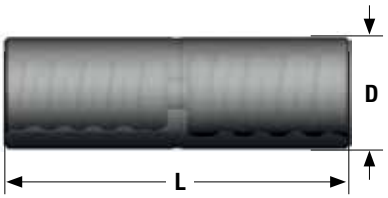
Flushing hole Ø 9,5 mm

MF Drifter rod, T38 - Hex 35 - R32					
3700	12'	1 1/2"	35	1 3/8"	**7324-6537-20**
4305	14'	1 1/2"	35	1 3/8"	**7324-6543-20**



Flushing hole Ø 9,5 mm

Coupling sleeve					
R38	170	-	6 3/4"	55	2 5/32"	**7994-3655**
T38	191	-	7 1/2"	52	2"	**7314-3652**



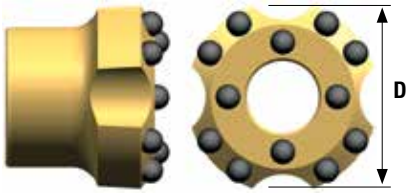
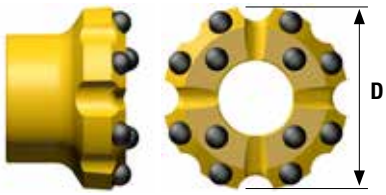
DRIFTING AND TUNNELING

R32 (1 1/4") reaming tools

Pilot adapters 6°, 12° taper

	Thread	Dimensions D					Part No.
		L mm	ft	in	D mm	in	
Reaming tools for cut holes / Pilot adapter, 6° taper							
	R32	-	-	-	26	1 1/32"	**7822-3526**
Reaming tools for cut holes / Pilot adapter, 12° taper							
	R32	-	-	-	40	1 37/64"	**7821-3440**

Reaming bit 6°, 12° taper

	Buttons, mm		Angle	Dimensions D		Part No.
	Front No Size	Gauge No Size		mm	in	
Reaming tools for cut holes / Reaming bit, 6° taper						
	4x8	8x9	25°	64	2 1/2"	**7722-4864-S48**
	4x10	8x10	30°	76	3"	**7722-4876-S48**
	6x10	8x12	35°	89	3 1/2"	**7722-4889-S48**
Reaming tools for cut holes / Reaming bit, 12° taper						
	4x10	8x12	35°	89	3 1/2"	**7721-4889-S48**
	4x13	8x13	35°	102	4"	**7721-4802-S48**
	8x13	8x13	35°	127	5"	**7721-4827-S48**

Reaming bit

	Flushing hole, mm		Buttons, mm		Angle	Dimensions D		Part No.
	Front No Size	Gauge No Size	Pilot No Size	Gauge No Size		mm	in	
Reaming tools for cut holes / Reaming bit, R32								
	4x6	-	3x10	12x13	35°	102	4"	**7733-5602P-S48**

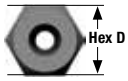
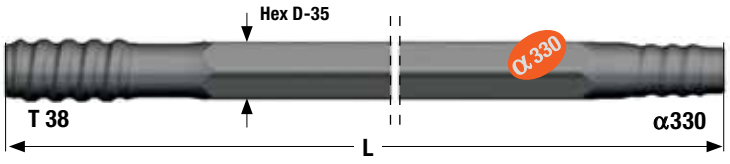
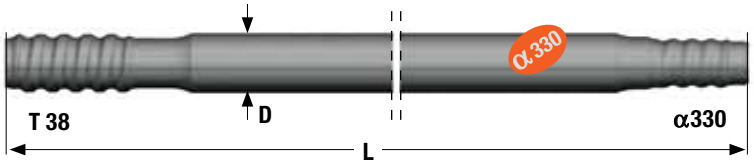
DRIFTING AND TUNNELING

Sandvik Alpha. α330 bit thread

Bits	Flushing hole, mm		Buttons, mm		Angle	Dimensions D		Bit Classification	Part No.
	Front No Size	Gauge No Size	Front No Size	Gauge No Size		mm	in		
Button bit, type 52									
	1x5	1x7.5	2x9	6x10	35°	43	1 11/16"	HMCVA	**7767-5243A-S48**
	1x5	1x7.5	2x9	5x11	30°	45	1 3/4"	HMCVA	**7767-5245A-S48**
	1x6	2x7.5	2x9	5x11	35°	48	1 7/8"	HMCVA	**7767-5248A-S48**
Button bit, type 54									
	2x6	2x6	2x9	6x9	40°	43	1 11/16"	MSCAN	**7767-5443B-R48**
	2x6	2x6	2x9	6x10	35°	45	1 3/4"	MSCAN	**7767-5445B-R48**
Button bit, type 53/16									
	3x4.5	1x4.5	3x8	6x9	30°	43	1 11/16"	MSCAN	**7767-5343A-R48**
	3x4.5	1x5	3x8	6x10	30°	45	1 3/4"	MSCAN	**7767-5345A-R48**
	3x4.5	1x5	3x8	6x10	25°	45	1 3/4"	HMCAN	**7767-5345A-S48**
	3x5	1x5	3x9	6x10	30°	48	1 7/8"	MSCAN	**7767-5348A-R48**
	3x5	1x5	3x9	6x10	30°	48	1 7/8"	HMCAN	**7767-5348A-S48**
	3x6	1x6	3x9	6x10	40°	51	2"	MSCAN	**7767-1651A-R48**
	3x6	1x6	3x9	6x10	35°	51	2"	HMCAN	**7767-1651A-S48**
	3x7	-	3x11	6x12	30°	64	2 1/2"	HMCAN	**7767-1664-S48**
Button bit, type 18									
	4x7	-	5x10	8x11	35°	76	3"	HMCAN	**7767-1876-S48**
Button bit, Retrac									
	3x6	-	3x9	6x10	35°	51	2"	HMCAN	**7767-4651A-S48**
Cross bit									
	1x5	4x6				45	1 3/4"		**7767-1345A-42**

DRIFTING AND TUNNELING

Sandvik Alpha. α330 bit thread

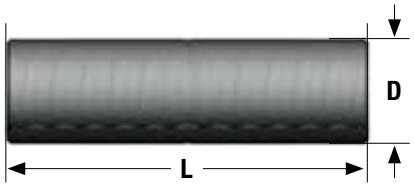
Rods		Dimensions D					Part No.
		L mm	ft	in	D mm	in	
Drifter rod, T38 - Hex 35 - α330							
		3090	10'	1 5/8"	35	1 3/8"	**7324-6731-20**
		3700	12'	1 5/8"	35	1 3/8"	**7324-6737-20**
		4305	14'	1 1/2"	35	1 3/8"	**7324-6743-20**
		4915	16'	1 1/2"	35	1 3/8"	**7324-6749-20**
		5525	18'	1 1/2"	35	1 3/8"	**7324-6755-20**
Flushing hole Ø 9,5 mm							
Drifter rod, T38 - Round 39 - α330							
		4915	16'	1 1/2"	39	1 1/2"	**7324-7049-20**
		5525	18'	1 1/2"	39	1 1/2"	**7324-7055-20**
		6135	20'	1 1/2"	39	1 1/2"	**7324-7061-20**
		6440	21'	1 1/2"	39	1 1/2"	**7324-7064-20**
Flushing hole Ø 10,3 mm							

DRIFTING AND TUNNELING

Sandvik Alpha. α330 bit thread

Coupling Sleeves

	Dimensions D					Part No.
	L mm	ft	in	D mm	in	
Coupling sleeve, T38						
	191	-	7 1/2"	52	2"	**7314-3652**



Reaming bit

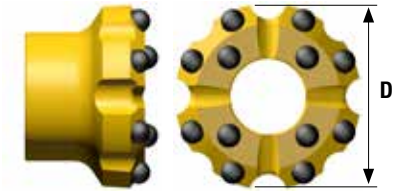
	Flushing hole, mm		Buttons, mm		Angle	Dimensions D		Part No.
	Front No Size	Gauge No Size	Pilot No Size	Gauge No Size		mm	in	
Reaming tools for cut holes / Reaming bit, α330								
	2x6	2x6	3x10	12x13	35°	102	4"	**7767-5602P-S48**

Pilot adapter 12° taper

	Thread	Dimensions D					Part No.
		L mm	ft	in	D mm	in	
Reaming tools for cut holes / Pilot adapter, 12° taper							
	α330	-	-	-	40	1 37/64"	**7821-6740**

Reaming bit 12° taper

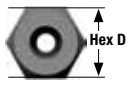
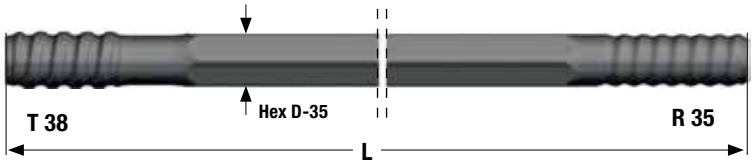
	Buttons, mm		Angle	Dimensions D		Part No.
	Front No Size	Gauge No Size		mm	in	
Reaming tools for cut holes / Reaming bit, 12° taper						
	4x10	8x12	35°	89	3 1/2"	**7721-4889-S48**
	4x13	8x13	35°	102	4"	**7721-4802-S48**
	8x13	8x13	35°	127	5"	**7721-4827-S48**



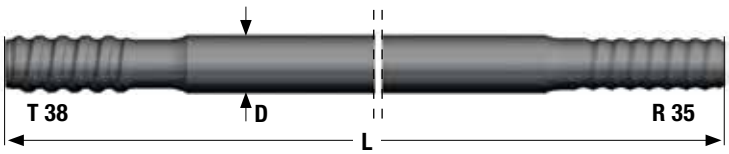
DRIFTING AND TUNNELING

R35 (1 3/8") bit thread

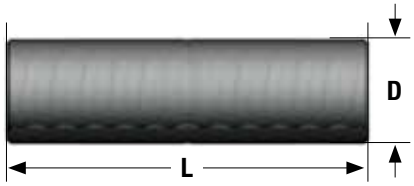
Bits	Flushing hole, mm		Buttons, mm		Angle	Dimensions D		Bit Classification	Part No.
	Front No Size	Gauge No Size	Front No Size	Gauge No Size		mm	in		
Button bit, type 53/16									
	3x5	1x5	3x9	6x10	30°	48	1 7/8"	HMCAN	**7738-5348A-S48**
	3x5	1x5	3x9	6x10	30°	48	1 7/8"	MSCAN	**7738-5348A-R48**
	3x6	1x6	3x9	6x10	35°	51	2"	HMCAN	**7738-1651A-S48**
	3x6	1x6	3x9	6x10	40°	51	2"	MSCAN	**7738-1651A-R48**
Cross bit									
	1x5	2x7.5	–	–	–	48	1 7/8"	–	**7738-1448-42**

Rods		Dimensions D					Part No.
		L mm	ft	in	D mm	in	
Drifter rod, T38 - Hex 35 - R35							
		4305	14'	1 1/2"	35	1 3/8"	**7324-8543-20**
		4915	16'	1 1/2"	35	1 3/8"	**7324-8549-20**
		5525	18'	1 1/2"	35	1 3/8"	**7324-8555-20**

Flushing hole Ø 9,5 mm

Drifter rod, T38 - Round 39 - R35						
	4305	14'	1 1/2"	39	1 1/2"	**7324-7243-20**
	4915	16'	1 1/2"	39	1 1/2"	**7324-7249-20**
	5525	18'	1 1/2"	39	1 1/2"	**7324-7255-20**
	6135	20'	1 1/2"	39	1 1/2"	**7324-7261-20**

Flushing hole Ø 14,5 mm

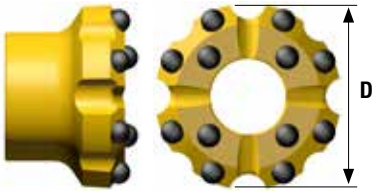
Drifter rod, T38 - Round 39 - R35						
	191	–	7 1/2"	52	2"	**7314-3652**

DRIFTING AND TUNNELING

R35 (1 3/8") bit thread

Reaming bit	Flushing hole, mm		Buttons, mm		Angle	Dimensions D		Part No.
	Front No Size	Gauge No Size	Pilot No Size	Gauge No Size		mm	in	
Reaming tools for cut holes / Reaming bit, R35								
	2x6	2x6	3x10	12x13	35°	102	4"	**7738-5602P-S48**

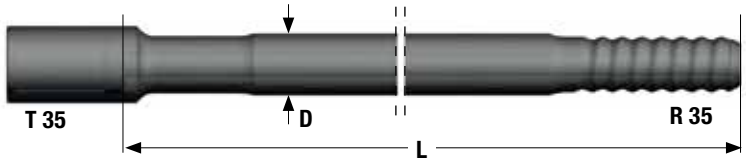
Pilot adapter 12° taper	Thread	Dimensions D					Part No.
		L mm	ft	in	D mm	in	
Reaming tools for cut holes / Pilot adapter, 12° taper							
	R35	-	-	-	40	1 37/64"	**7821-5440**

Reaming bit 12° taper	Buttons, mm		Angle	Dimensions D		Part No.
	Front No Size	Gauge No Size		mm	in	
Reaming tools for cut holes / Reaming bit, 12° taper						
	4x10	8x12	35°	89	3 1/2"	**7721-4889-S48**
	4x13	8x13	35°	102	4"	**7721-4802-S48**
	8x13	8x13	35°	127	5"	**7721-4827-S48**

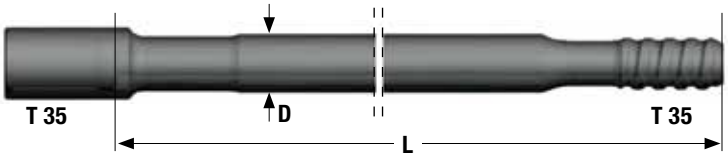
DRIFTING AND TUNNELING

Sandvik Extra. R35 (I 3/8”) bit thread

Bits	Flushing hole, mm		Buttons, mm		Angle	Dimensions D		Bit Classification	Part No.
	Front No Size	Gauge No Size	Front No Size	Gauge No Size		mm	in		
Button bit, Retrac R35									
	3x6	1x5	3x9	3x10	30°	54	2 1/5"	MSCFAN	**7738-4654A1-R48**

Rods	Dimensions D					Part No.
	L mm	ft	in	D mm	in	
Drifter rod, T35 - Round 39 - R35						
	4305	14’	1 1/2"	39	1 1/2”	**7327-5243-20**
	4915	16'	1 1/2"	39	1 1/2"	**7327-5249-20**
	5525	18'	1 1/2"	39	1 1/2"	**7327-5255-20**
	6135	20'	1 1/2"	39	1 1/2"	**7327-5261-20**

Flushing hole Ø 14,5 mm, Female end Ø 48,2 mm

Drifter Extension rod, T35 - Round 39 - T35						
	3050	10'	–	39	1 1/2”	**7327-4731-20**
	3660	12’	–	39	1 1/2”	**7327-4737-20**
	4265	14’	–	39	1 1/2”	**7327-4743-20**
	4875	16’	–	39	1 1/2”	**7327-4749-20**

Flushing hole Ø 14,5 mm, Female end Ø 48,2 mm

DRIFTING AND TUNNELING

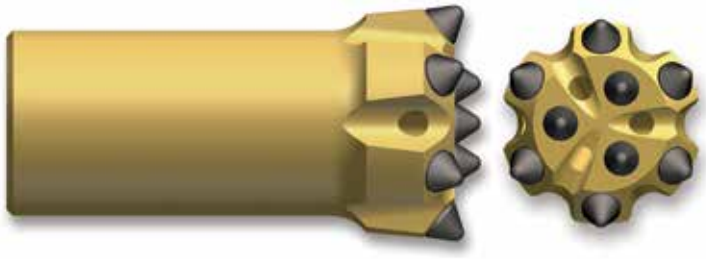
Sandvik drifter bits

Sandvik bits for drifting and tunneling are available in four basic designs

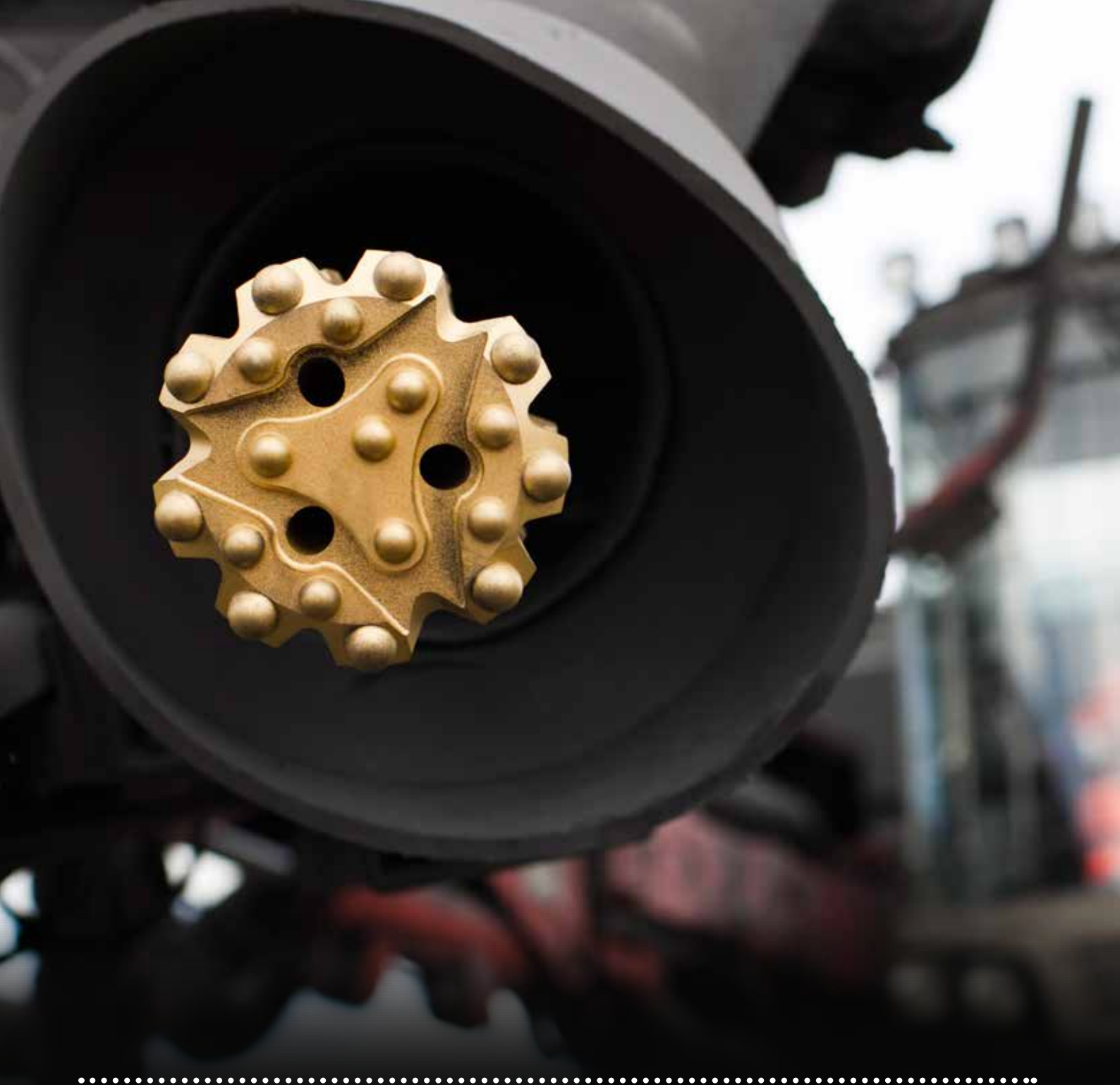
Type 52
Designed for maximum bit life in hard and abrasive rock

Type 53
All-round design with a good trade off between speed and bit life length for hard to medium hard rock

Type 54
All-round design with high penetration rate for hard to medium hard rock



Type 55
Designed for maximum penetration rate in softer and less abrasive rock formations



THE RIGHT SOLUTIONS FOR INCREASED PRODUCTIVITY

Sandvik GT60 enables drilling of holes from 92 mm to 152 mm in diameter. By using a GT60 tool system when drilling the typical T51 hole size (102 mm), hole straightness can be greatly improved – thanks to the much stiffer and stable rod package.

Sandvik GT60 tools system also offers excellent energy transfer efficiancy all the way from rock drill to hole bottom, reducing fuel costs and environmental impact.

Increased energy transfer efficiancy is key to get the best penetration rate possible from every drilling rig.

A drill string with Sandvik MF-rods offers stiffer connections than a string with separate coupling sleeves due to the 50% reduction in thread play.

BENEFITS WITH SANDVIK TOOLS IN BENCH DRILLING

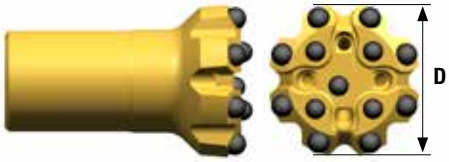
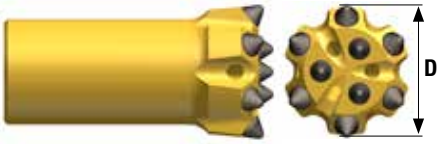
- Using Sandvik rock tools gives a lower total operating cost.
- Longer service life of drill steel components (reduced drilling tool cost).
- Less downtime – improved productivity.
- Improved safety – better blasting control.
- Less hole deviation which gives more well balanced fragmentation (higher productivity in crushers).
- Reduced consumption of explosives (less specific charging), which accounts for 40–50% of the total drilling and blasting costs.

BOOSTS DRILLING PERFORMANCE TO MAKE OPERATIONS SIMPLER AND PRODUCTIVE

At Sandvik we have several types of specially designed drilling tools. Tools that offer solutions to minimise hole deviation and optimise drilling patterns. The results, improved hole straightness, superior energy transmission and higher drilling efficiency. Our in-house manufacturing facilities for steel production, machining and tailoring together with our research and development, gives us a competitive edge with product solutions tailored for rock drilling professionals.

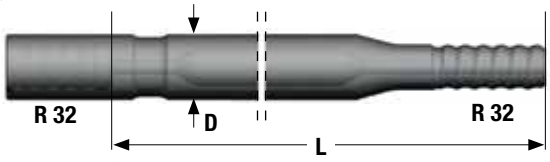
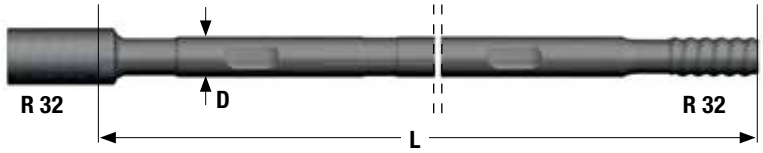
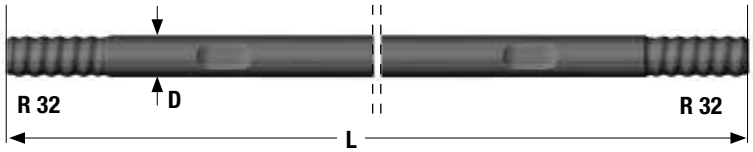
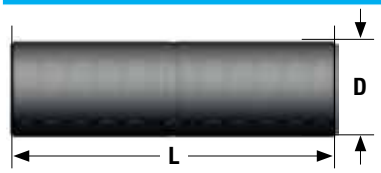
BENCH DRILLING

R32 (1 1/4")

Bits	Flushing hole, mm		Buttons, mm		Angle	Dimensions D		Bit Classification	Part No.
	Front No Size	Gauge No Size	Front No Size	Gauge No Size		mm	in		
Button bit, regular skirt									
	3x6	1x6	3x9	6x10	35°	51	2"	HMCA	**7733-1651A-S48**
	3x6	1x6	3x9	6x10	40°	51	2"	MSCAN	**7733-1651A-R48**
	3x6	1x6	3x10	6x11	35°	57	2 1/4"	HMCA	**7733-1657A-S48**
	3x7	–	3x11	6x12	30°	64	2 1/2"	HMCVA	**7733-1664-S48**
	4x7	–	5x11	8x12	35°	76	3"	HMCVA	**7733-1876-S48**
	3x6	1x6	3x9	6x10	40°	51	2"	SCFN	**7733-5551A-C60**
	3x6	1x6	3x10	6x10	40°	57	2 1/4"	SCFN	**7733-5557A-C60**
	3x8	1x8	3x10	6x11	40°	64	2 1/2"	SCFN	**7733-5564A-C60**
Button bit, Retrac									
	3x6	–	3x9	6x10	35°	51	2"	HMCFA	**7733-4651-S48**
	3x6	–	3x9	6x10	35°	51	2"	MSCFAN	**7733-4651-R48**
	4x7	–	5x9	8x10	30°	64	3 1/2"	HMCFVA	**7733-4864-S48**
Cross bit									
	1x5	2x7.5	–	–	–	51	2"	HMCFA	**7733-1451-42**

BENCH DRILLING

R32 (1 1/4")

Rods	Dimensions D						Part No.
	Bit dia. mm	L mm	ft	in	D mm	in	
Guide tube							
	51-64	1830	6'	–	46	1 3/4"	**7953-4618-20**
Female end Ø 46 mm							
MF-rod, R32 - round 32 - R32							
		3050	10'	-	32	1 1/4"	**7853-5131-20**
		3660	12'	-	32	1 1/4"	**7853-5137-20**
Flushing hole Ø 9.2 mm. Wrench flat 25.4 mm. Female end Ø 45 mm							
Extension rod, R32 - round 32 - R32							
		2440	8'	-	32	1 1/4"	**7853-3324-30**
		3050	10'	-	32	1 1/4"	**7853-3331-30**
		3660	12'	-	32	1 1/4"	**7853-3337-30**
Flushing hole Ø 11.7 mm. Wrench flat 25.4 mm							
Coupling sleeve R32							
		150	-	5 29/32"	44	1 47/64"	**7993-3644**

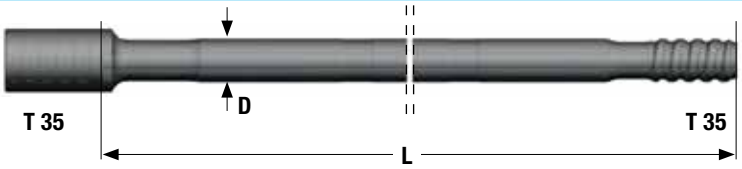
BENCH DRILLING

T35(I 3/8")

Bits	Flushing hole, mm		Buttons, mm		Angle	Dimensions D		Bit Classification	Part No.
	Front No Size	Gauge No Size	Front No Size	Gauge No Size		mm	in		
Button bit, regular skirt									
	3x6	1x6	3x9	6x10	35°	54	2 1/2"	HMCFVAN	**7517-1654A-S48**

Button bit, Retrac									
	3x6	–	3x9	6x10	35°	54	2 1/6"	MSCFAN	**7517-4654-R48**
	3x7	–	3x10	6x11	35°	57	2 1/4"	MSCFAN	**7517-4657-R48**

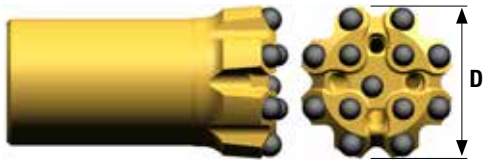
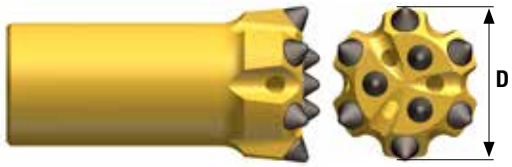
Rods	Dimensions D					Part No.
	L mm	ft	in	D mm	in	
MF-rod, T35 - round 39 - T35						
	3050	10'	-	39	1 1/2"	**7327-4731-20**
	3660	12'	-	39	1 1/2"	**7327-4737-20**



Female end Ø 48,2 mm. Flushing hole Ø 14,5 mm

BENCH DRILLING

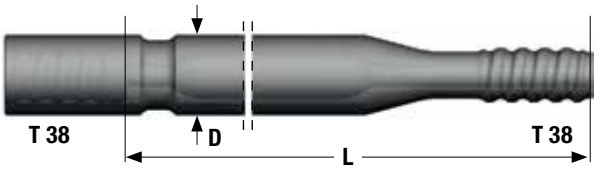
T38 (I I/2")

Bits	Flushing hole, mm		Buttons, mm		Angle	Dimensions D		Bit Classification	Part No.
	Front No Size	Gauge No Size	Front No Size	Gauge No Size		mm	in		
Button bit, regular skirt									
	3x8	–	3x11	6x12	30°	64	2 1/2"	HMCVAN	**7514-1664-S48**
	3x8	–	3x11	6x12	35°	64	2 1/2"	MSCAN	**7514-1664-R48**
	4x8	–	5x10	8x11	30°	70	2 3/4"	HMCVAN	**7514-1870-S48**
	4X8	–	5x11	8x12	35°	76	3"	HMCVAN	**7514-1876-S48**
	4X8	–	5x11	8x11	40°	76	3"	MSCAN	**7514-1876-R48**
	4X9	–	5x12	8x12	35°	89	3 1/2"	HMCVAN	**7514-1889-S48**
	2x11	1x6	4x10	8x10	30°	64	2 1/2"	HMCAN	**7514-2664A-S48**
	2x11	1x6	6x10	8x11	35°	76	3"	HMCAN	**7514-2676A-S48**
	3x8	1x8	3x10	6x11	40°	64	2 1/2"	SCFN	**7514-5564A-C60**
	4x8	1x8	4x10	8x11	40°	76	3"	SCFN	**7514-5576A-C60**
Button bit, Retrac									
	3x8	–	3x11	6x12	30°	64	2 1/2"	HMCFVAN	**7514-4664-S48**
	4x8	–	5x9	8x10	35°	64	2 1/2"	MSCFAN	**7514-4864-R48**
	4x8	–	5x10	8x11	30°	70	2 3/4"	HMCFVAN	**7514-4870-S48**
	4X8	–	5x11	8x12	35°	76	3"	HMCFVAN	**7514-4876-S48**
	4X8	–	5x11	8x11	35°	76	3"	MSCFAN	**7514-4876-R48**
	2x10	1x6	4x10	8x10	30°	64	2 1/2"	HMCFAN	**7514-7864A-S48**
	2x11	1x6	6x10	8x11	35°	76	3"	HMCFAN	**7514-7876A-S48**
X bit									
	1x7.5	2x7.5	–	–	–	64	2 1/2"	–	**7514-4064-11**

BENCH DRILLING

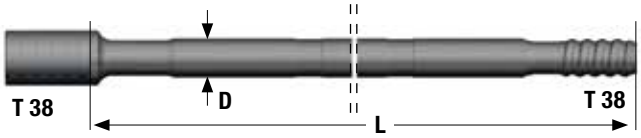
T38 (1 1/2")

Rods		Dimensions D						Part No.
		Bit dia. mm	L mm	ft	in	D mm	in	
Guide tube								
		64-76	3660	12'	–	56	2 13/64"	**7955-5637-20**



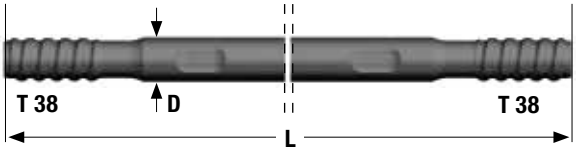
Female end OD 56 mm

MF-rod, T38 - round 39 - T38							
	3050	10'	–	39	1 1/2"	**7324-4731-70**
	3660	12'	–	39	1 1/2"	**7324-4737-70**
	4265	14'	–	39	1 1/2"	**7324-4743-70**



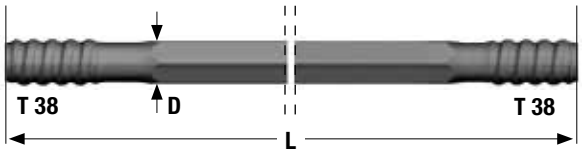
Flushing hole Ø 14.5 mm. Female end OD 56 mm

Extension rod, T38 - round 39 - T38							
	3050	10'	–	39	1 1/2"	**7324-4331C-30**
	3660	12'	–	39	1 1/2"	**7324-4337C-30**



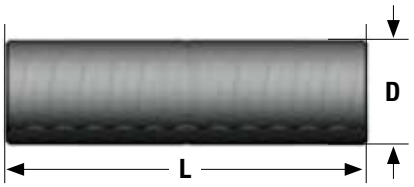
Flushing hole Ø 14.5 mm. Wrench flat 32 mm

Light extension rod, T38 - Hex 32 - T38							
	3050	10'	–	32	1 1/4"	**7324-6931-20**



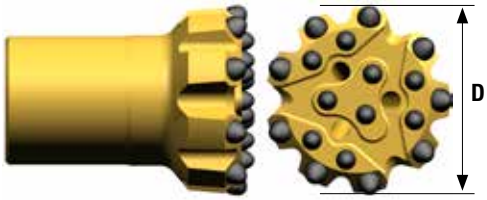
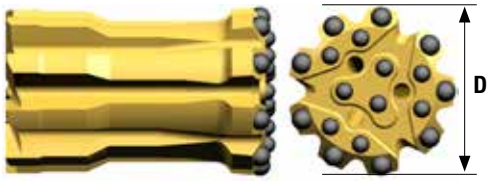
Flushing hole Ø 9.6 mm

Coupling sleeve T38							
	191	–	7 1/2"	55	2 5/32"	**7314-3355**



BENCH DRILLING

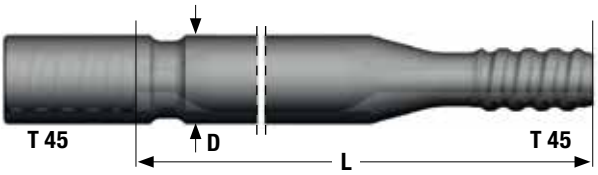
T45 (1 3/4")

Bits	Flushing hole, mm		Buttons, mm		Angle	Dimensions D		Bit Classification	Part No.
	Front No Size	Gauge No Size	Front No Size	Gauge No Size		mm	in		
Button bit, regular skirt									
	4x8	–	5x10	8x11	30°	70	2 3/4"	HMCVAN	**7515-1870-S48**
	4x8	–	5x11	8x12	35°	76	3"	HMCVAN	**7515-1876-S48**
	4x8	–	5x11	8x12	35°	76	3"	MSCAN	**7515-1876-R48**
	4x9	–	5x13	8x13	35°	89	3 1/2"	HMCVAN	**7515-1889-S48**
	4x9	–	5x13	8x13	40°	89	3 1/2"	HMCAN	**7515-1889-R48**
	3x10	–	9x11	9x13	35°	102	4"	HMCVAN	**7515-1902-S48**
	3x10	–	9x11	9x13	40°	102	4"	MSCAN	**7515-1902-R48**
	2x12	1x7.5	6x10	8x11	35°	76	3"	HMCAN	**7515-2676A-S48**
	3x10	1x7.5	6x10	9x11	35°	89	3 1/2"	HMCAN	**7515-2689A-S48**
	4x8	1x8	4x10	8x11	40°	76	3"	SCFN	**7515-5576A-C60**
Button bit, Retrac									
	4x8	–	5x10	8x11	35°	70	2 3/4"	MSCFAN	**7515-4870-R48**
	4x8	–	5x11	8x12	35°	76	3"	HMCFVAN	**7515-4876-S48**
	4x8	–	5x11	8x12	35°	76	3"	MSCFAN	**7515-4876-R48**
	4x9	–	5x13	8x13	35°	89	3 1/2"	HMCFVAN	**7515-4889-S48**
	4x9	–	5x13	8x13	40°	89	3 1/2"	MSCFAN	**7515-4889-R48**
	3x10	–	9x11	9x13	35°	102	4"	HMCFVAN	**7515-4902-S48**
	3x10	–	9x11	9x13	40°	102	4"	MSCFAN	**7515-4902-R48**
	2x11	1x6	6x10	8x11	35°	76	3"	HMCFAN	**7515-7876A-S48**
	3x10	1x8	6x10	9x11	35°	89	3 1/2"	HMCFAN	**7515-7889A-S48**

BENCH DRILLING

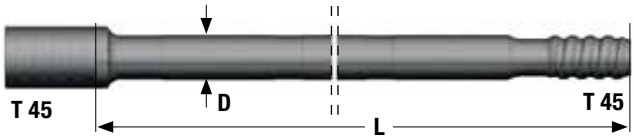
T45 (1 3/4")

Rods	Dimensions D						Part No.
	Bit dia. mm	L mm	ft	in	D mm	in	
Guide tube							
	76-89	3660	12'	–	63	2 1/2"	**7956-6337-70**
	89-102	3660	12'	–	76	3"	**7956-7637-70**



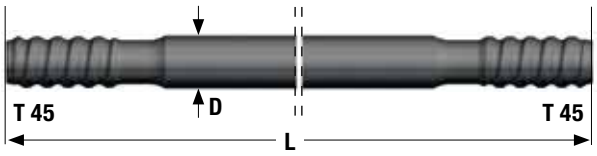
Female end Ø 63 mm / 76 mm

MF-rod, T45 - round 46 - T45						
3050	10'	–	46	1 3/4"	**7325-7731-70**
3660	12'	–	46	1 3/4"	**7325-7737-70**
4265	14'	–	46	1 3/4"	**7325-7743-70**
6095	20'	–	46	1 3/4"	**7325-7761-70**



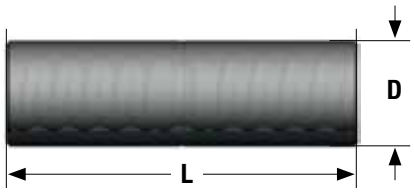
Flushing hole Ø 17 mm. Female end Ø 63 mm

Extension rod, T45 - round 46 - T45						
3050	10'	–	46	1 3/4"	**7325-7331C-30**
3660	12'	–	46	1 3/4"	**7325-7337C-30**
4265	14'	–	46	1 3/4"	**7325-7343C-30**



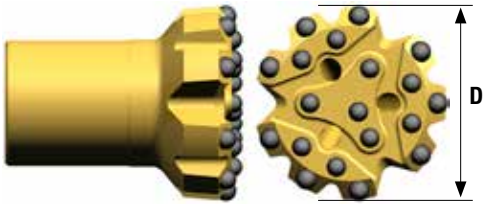
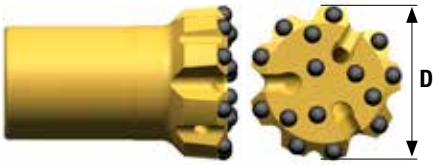
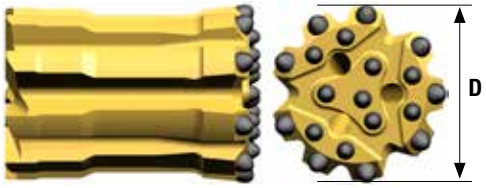
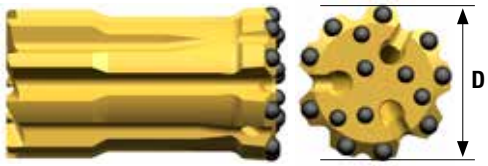
Flushing hole Ø 17 mm

Coupling sleeve T45					
210	–	8 1/8"	63	2 31/64"	**7315-3663**



BENCH DRILLING

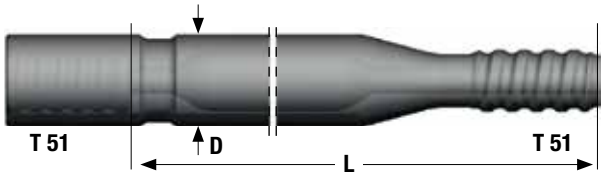
T51 (2")

Bits	Flushing hole, mm		Buttons, mm		Angle	Dimensions D		Bit Classification	Part No.
	Front No Size	Gauge No Size	Front No Size	Gauge No Size		mm	in		
Button bit, regular skirt									
	4x10	–	5x13	8x13	35°	89	3 1/2"	HMCVAN	**7516-1889-S48**
	4x10	–	5x13	8x13	40°	89	3 1/2"	MSCAN	**7516-1889-R48**
	3x13	–	9x11	9x13	40°	102	4"	MSCAN	**7516-1902-R48**
	3x13	–	9x11	9x13	35°	102	4"	HMCVAN	**7516-1902-S48**
	3x14	–	10x12	9x14	35°	115	4 1/2"	HMCVAN	**7516-1915-S48**
	3x14	–	10x13	9x14	35°	127	5"	HMCVAN	**7516-1927-S48**
	3x12	1x8	6x10	9x11	35°	89	3 1/2"	HMCAN	**7516-2689A-S48**
	3x12	1x8	6x12	9x12	35°	102	4"	HMCAN	**7516-2602A-S48**
Button bit, Retrac									
	4x10	–	5x13	8x13	35°	89	3 1/2"	HMCFVAN	**7516-4889-S48**
	4x10	–	5x13	8x13	40°	89	3 1/2"	MSCFAN	**7516-4889-R48**
	3x13	–	9x11	9x13	40°	102	4"	MSCFAN	**7516-4902-R48**
	3x13	–	9x11	9x13	35°	102	4"	HMCFVAN	**7516-4902-S48**
	3x14	–	10x12	9x14	40°	115	4 1/2"	HMCFVAN	**7516-4915-R48**
	3x14	–	10x12	9x14	35°	115	4 1/2"	HMCFVAN	**7516-4915-S48**
	3x14	–	10x13	9x14	35°	127	5"	HMCFVAN	**7516-4927-S48**
	3x12	1x8	6x10	9x11	35°	89	3 1/2"	HMCFAN	**7516-7889A-S48**

BENCH DRILLING

T51 (2")

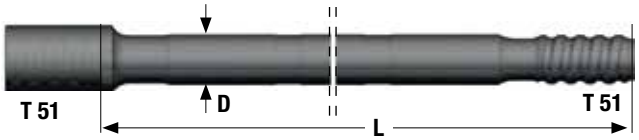
Rods	Dimensions D						Part No.
	Bit dia. mm	L mm	ft	in	D mm	in	
Guide tube							
	89-102	3660	12'	–	76	3"	**7957-7637-70**
	102-127	3660	12'	–	87	3 1/2"	**7957-8737-70**



Female end Ø 76 / 87 mm

MF-rod, T51 - round 52 - T51

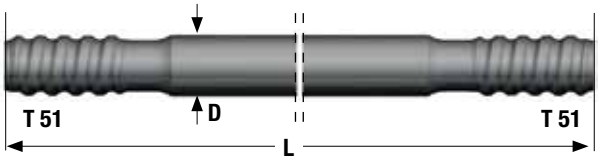
3660	12'	–	52	2"	**7326-5537-70**
4265	14'	–	52	2"	**7326-5543-70**
6095	20'	–	52	2"	**7326-5561-70**



Flushing hole Ø 21,5 mm. Female end Ø 71 mm

Extension rod, T51 - round 52 - T51

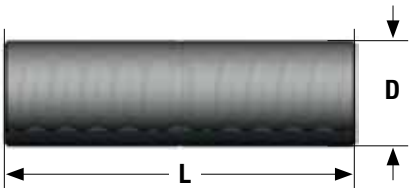
3050	10'	–	46	1 3/4"	**7326-7331C-30**
3660	12'	–	46	1 3/4"	**7326-7337C-30**
4265	14'	–	46	1 3/4"	**7326-7343C-30**



Flushing hole Ø 21.5 mm

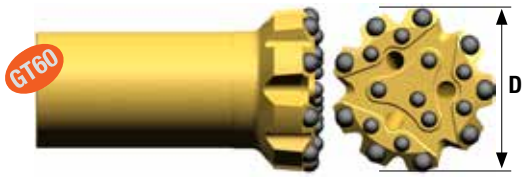
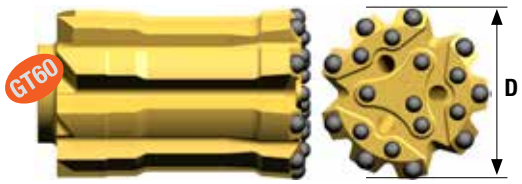
Coupling sleeve T51

225	–	8 7/8"	71	2 51/64"	**7316-3671**
225	–	8 7/8"	76	3"	**7316-3676**



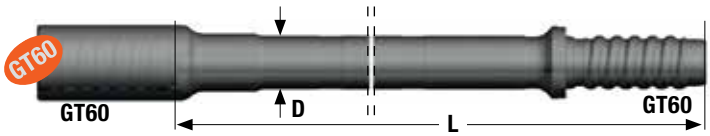
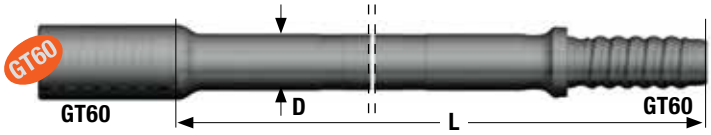
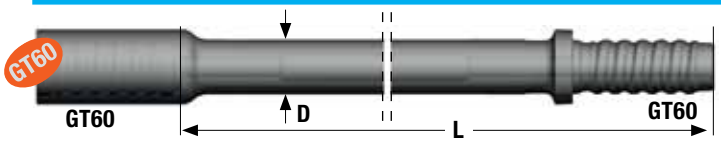
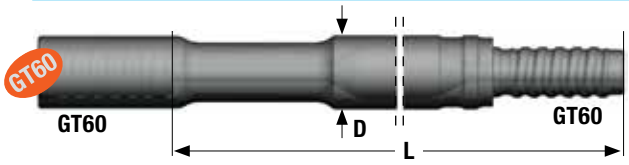
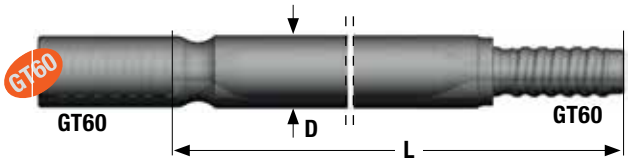
BENCH DRILLING

Sandvik GT60

Bits	Flushing hole, mm		Buttons, mm		Angle	Dimensions D		Bit Classification	Part No.
	Front No Size	Gauge No Size	Front No Size	Gauge No Size		mm	in		
Button bit, regular skirt									
	4x11	–	6x12	8x14	35°	92	3 5/8"	HMSCVA	**7620-1892-S48**
	4x11	–	6x12	8x14	35°	96	3 3/4"	HMSCVA	**7620-1896-S48**
	3x14	–	9x11	9x13	35°	102	4"	HMSCVA	**7620-1902-S48**
	3x14	–	10x12	9x14	35°	115	4 1/2"	HMSCVA	**7620-1915-S48**
	3x14	–	10x12	9x14	40°	115	4 1/2"	MSCFAN	**7620-1915-R48**
	3x14	–	10x14	9x16	35°	127	5"	HMSCVA	**7620-1927-S48**
	3x14	–	10x14	9x16	35°	140	5 1/2"	HMSCVA	**7620-1940-S48**
	3x14	–	12x14	9x16	35°	152	6"	HMSCVA	**7620-1952-S48**
Button bit, Retrac									
	3x14	–	9x11	9x13	35°	102	4"	HMSCFVA	**7620-4902-S48**
	3x14	–	10x12	9x14	40°	115	4 1/2"	MSCFAN	**7620-4915-R48**
	3x14	–	10x12	9x14	35°	115	4 1/2"	HMSCFVA	**7620-4915-S48**
	3x14	–	10x14	9x16	35°	127	5"	HMSCFVA	**7620-4927-S48**
	3x14	–	10x14	9x16	35°	127	5"	HMSCFVA	**7620-4927-S55**
	3x14	–	10x14	9x16	35°	140	5 1/2"	HMSCFVA	**7620-4940-S48**
	3x14	–	12x14	9x16	35°	152	6"	HMSCFVA	**7620-4952-S48**
	2x14	–	9x12	9x12	35°	92	3 5/8"	HMSCFAN	**7620-8792-S48**
	2x14	–	9x12	9x12	40°	92	3 5/8"	MSCFAN	**7620-8792-R48**
	2x14	–	9x12	9x12	35°	96	3 3/4"	HMSCFAN	**7620-8796-S48**
	2x14	–	9x12	9x12	40°	96	3 3/4"	MSCFAN	**7620-8796-R48**
	2x14	–	10x12	9x13	40°	102	4"	MSCFAN	**7620-8702-R48**
	3x13	–	6x13	9x16	35°	115	4 1/2"	HMCFVA	**7620-8115-S55**

BENCH DRILLING

Sandvik GT60

Rods	Dimensions D					Part No.
	L mm	ft	in	D mm	in	
MF-rod, GT60 - round 60 - GT60. For bits from 96 mm.						
	3660	12'	-	60	2 3/8"	**7610-1137-70**
	4265	14'	-	60	2 3/8"	**7610-1143-70**
	6095	20'	-	60	2 3/8"	**7610-1161-70**
Female end Ø 85 mm. Flushing hole Ø 22,5 mm						
	4265	14'	-	64	2 1/2"	**7610-1243-70**
Female end Ø 85 mm. Flushing hole Ø 25 mm						
MF-rod, GT60 - round 60 - GT60. For 92-115 mm bits.						
	4265	14'	-	60	2 3/8"	**7610-1443-70**
Female end Ø 82 mm. Flushing hole Ø 22,5 mm						
Pilot tube - GT60.						
	4265	14'	–	87	3 1/2"	**7640-8743-70**
	5335	17'	6"	76	3"	**7640-7653-70**
Female end Ø 85 mm (82 mm on 76 mm tubes)						
Drill tube						
	4265	14'	–	87	3 1/2"	**7660-8743-71**

Always use with tube shank adapter 7600-6030-01 (HL1500, 1560) or 7600-6031-01 (HL1000, 1010)

THE POWER TO MEET EVERY CRITERIA

Production drilling is at the very heart of the mine so it's critical that every consideration is given to using products that supply high quality and high reliability. The developments in underground mining points to large scale production with fewer sublevels, longer holes and more selective mining – which make drilling accuracy more important than ever. Many factors influence the straightness of the drill hole; rock / ore properties, drilling method, power and set-up of the drill rig and, correct choice of the drilling tools. In this context a Sandvik MF rod string is a tolerant and forgiving tool system. And, as long as satisfactory results are achieved, this system should be regarded as a first choice. And where hole straightness is paramount – a Sandvik tube string system is the recommended choice.

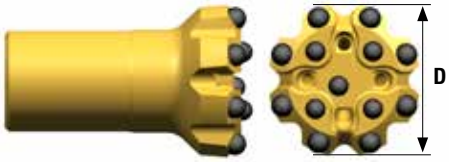
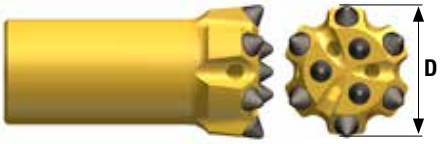
With our unique in-house manufacturing facilities for producing, machining and tailoring steel, we are able to modify the metallurgical properties of all crucial Sandvik MF rod components. Therefore all Sandvik rod-strings are given specific material characteristics to maximize wear, fatigue and corrosion resistance. Ultimately boosting drilling performance, to make drilling operations simple and secure high productivity. In long-hole production drilling, the main advantages of the Sandvik tube drilling system is the high rate of penetration; the straightness, quality of the drill-holes and the low total production cost. Hole diameter ranges from 76 to 115 mm and, a correctly assembled tube string in a stable rig permits accurate drilling of holes up to 60 meters.

WHERE QUALITY COUNTS
DILUTION IS PRIMARILY CAUSED BY DEVIATION

One question commonly asked is whether it's possible to increase the output a long hole-drilling. The answer is an emphatic yes. It's all to do with hole straightness and direction. Accurate placement of explosives energy will protect weak ground conditions. The ultimate reason for efficient, accurate drilling is mine profitability. Hole deviation adversely effects profitability in the form of poor fragmentation, low ore recovery and ore dilution. Using Sandvik quality tools has been proven to reduce deviation by up to 40%.

LONG HOLE DRILLING UNDERGROUND

R32 (1 1/4")

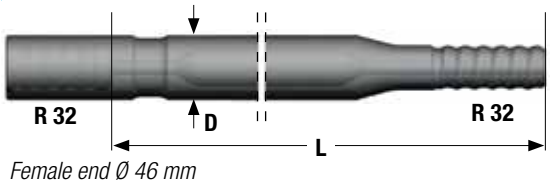
Bits	Flushing hole, mm		Buttons, mm		Angle	Dimensions D		Bit Classification	Part No.
	Front No Size	Gauge No Size	Front No Size	Gauge No Size		mm	in		
Button bit, Regular skirt									
	3x6	1x6	3x9	6x10	35°	51	2"	HMCA	**7733-1651A-S48**
	3x6	1x6	3x9	6x10	40°	51	2"	MSCAN	**7733-1651A-R48**
	3x6	1x6	3x10	6x11	35°	57	2 1/4"	HMCA	**7733-1657A-S48**
	3x7	–	3x11	6x12	30°	64	2 1/2"	HMCVA	**7733-1664-S48**
	4x7	–	5x11	8x12	35°	76	3"	HMCVA	**7733-1876-S48**
	3x6	1x6	3x9	6x10	40°	51	2"	SCFN	**7733-5551A-C60**
	3x6	1x6	3x10	6x10	40°	57	2 1/4"	SCFN	**7733-5557A-C60**
	3x8	1x8	3x10	6x11	40°	64	2 1/2"	SCFN	**7733-5564A-C60**
Button bit, Retrac skirt									
	3x6	–	3x9	6x10	35°	51	2"	HMCFA	**7733-4651-S48**
	3x6	–	3x9	6x10	35°	51	2"	MSCFAN	**7733-4651-R48**
	4x7	–	5x9	8x10	30°	64	3 1/2"	HMCFVA	**7733-4864-S48**
Cross bit									
	1x5	2x7.5	–	–	–	51	2"	HMCFA	**7733-1451-42**

LONG HOLE DRILLING UNDERGROUND

R32 (1 1/4")

Rods

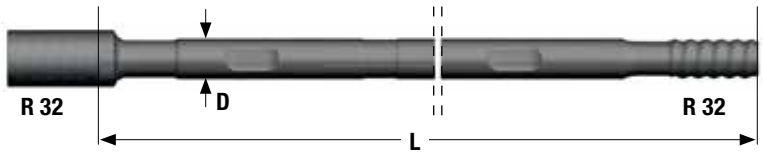
Guide tube



Female end Ø 46 mm

Dimensions D						Part No.
Bit dia. mm	L mm	ft	in	D mm	in	
51-64	1830	6'	–	46	1 3/4"	**7953-4618-20**

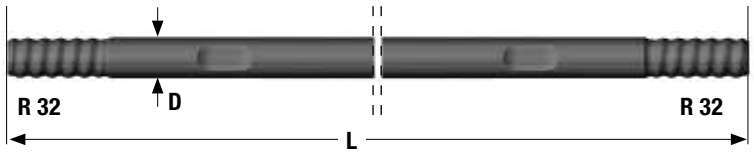
MF-rod, R32 - round 32 - R32



Flushing hole Ø 11.7 mm. Wrench flat 25.4 mm. Female end Ø 45 mm

915	3'	–	32	1 1/4"	**7853-5109-20**
1220	4'	–	32	1 1/4"	**7853-5112-20**
1525	5'	–	32	1 1/4"	**7853-5115-20**
1830	6'	–	32	1 1/4"	**7853-5118-20**

Extension rod, R32 - round 32 - R32



Flushing hole Ø 11.7 mm. Wrench flat 25.4 mm

915	3'	–	32	1 1/4"	**7853-3309-20**
1220	4'	–	32	1 1/4"	**7853-3312-20**
1525	5'	–	32	1 1/4"	**7853-3315-20**
1830	6'	–	32	1 1/4"	**7853-3318-20**

Coupling sleeve R32

150	-	5 29/32"	44	1 47/64"	**7993-3644**

Pilot adapter

Pilot adapter for reaming of 51 mm (2") pilot holes

Thread	Dimensions D					Part No.
	L mm	ft	in	D mm	in	
R32	–	–	–	47	1 7/8"	**7823-3647**

Reaming bit

Reaming bit

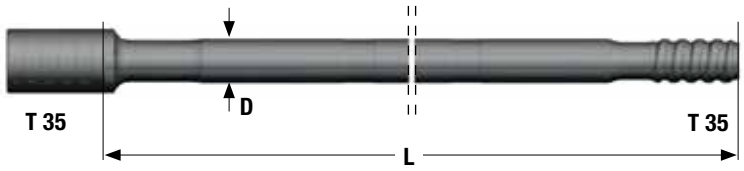
Buttons, mm		Angle	Dimensions D		Bit Classification	Part No.
Front No Size	Gauge No Size		mm	in		
4x12	8x12	35°	102	4"	–	**7723-4802-S48**
4x12	8x12	35°	127	5"	–	**7723-4827-S48**

LONG HOLE DRILLING UNDERGROUND

T35 (1 3/8")

Bits	Flushing hole, mm		Buttons, mm		Angle	Dimensions D		Bit Classification	Part No.
	Front No Size	Gauge No Size	Front No Size	Gauge No Size		mm	in		
Button bit, regular skirt									
	3x6	1x6	3x9	6x10	35°	64	2 1/2"	HMCFVAN	**7517-1654A-S48**
Button bit, Retrac T35									
	3x6	–	3x9	6x10	35°	54	2 1/6"	MSCFAN	**7517-4654-R48**
	3x7	–	3x10	6x11	35°	57	2 1/4"	MSCFAN	**7517-4657-R48**

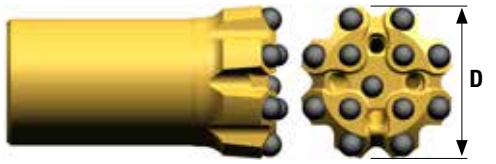
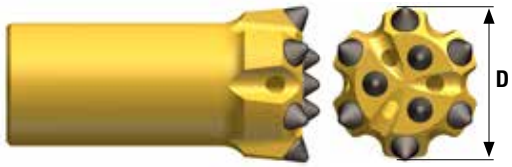
Rods	Dimensions D					Part No.
	L mm	ft	in	D mm	in	
MF-rod, T35 - Round 39 - T35						
	1830	6'	-	39	1 1/2"	**7327-4718-20**



Female end Ø 48,2 mm. Flushing hole Ø 14,5 mm

LONG HOLE DRILLING UNDERGROUND

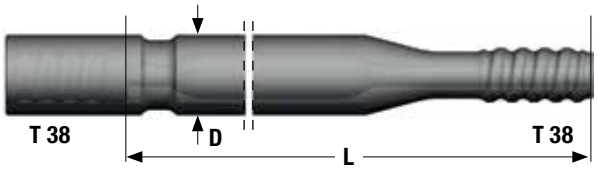
T38 (I I/2")

Bits	Flushing hole, mm		Buttons, mm		Angle	Dimensions D		Bit Classification	Part No.
	Front No Size	Gauge No Size	Front No Size	Gauge No Size		mm	in		
Button bit, Regular skirt									
	3x8	–	3x11	6x12	30°	64	2 1/2"	HMCVAN	**7514-1664-S48**
	3x8	–	3x11	6x12	35°	64	2 1/2"	MSCAN	**7514-1664-R48**
	4x8	–	5x10	8x11	30°	70	2 3/4"	HMCVAN	**7514-1870-S48**
	4X8	–	5x11	8x12	35°	76	3"	HMCVAN	**7514-1876-S48**
	4X8	–	5x11	8x11	40°	76	3"	MSCAN	**7514-1876-R48**
	4X9	–	5x12	8x12	35°	89	3 1/2"	HMCVAN	**7514-1889-S48**
	2x11	1x6	4x10	8x10	30°	64	2 1/2"	HMCAN	**7514-2664A-S48**
	2x11	1x6	6x10	8x11	35°	76	3"	HMCAN	**7514-2676A-S48**
	3x8	1x8	3x10	6x11	40°	64	2 1/2"	SCFN	**7514-5564A-C60**
	4x8	1x8	4x10	8x11	40°	76	3"	SCFN	**7514-5576A-C60**
Button bit, Retrac skirt									
	3x8	–	3x11	6x12	30°	64	2 1/2"	HMCFVAN	**7514-4664-S48**
	4x8	–	5x9	8x10	35°	64	2 1/2"	MSCFAN	**7514-4864-R48**
	4x8	–	5x10	8x11	30°	70	2 3/4"	HMCFVAN	**7514-4870-S48**
	4X8	–	5x11	8x12	35°	76	3"	HMCFVAN	**7514-4876-S48**
	4X8	–	5x11	8x11	35°	76	3"	MSCFAN	**7514-4876-R48**
	2x10	1x6	4x10	8x10	30°	64	2 1/2"	HMCFAN	**7514-7864A-S48**
	2x11	1x6	6x10	8x11	35°	76	3"	HMCFAN	**7514-7876A-S48**
X bit									
	1x7.5	2x7.5	–	–	–	64	2 1/2"	–	**7514-4064-11**

LONG HOLE DRILLING UNDERGROUND

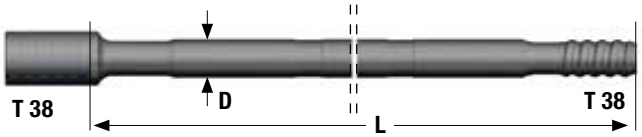
T38 (1 1/2")

Rods	Dimensions D						Part No.
	Bit dia. mm	L mm	ft	in	D mm	in	
Guide tube							
	64-76	1830	6'	–	56	2 13/64"	**7955-5618-20**



Female end OD 56 mm

MF-rod, T38 - round 39 - T38						
1220	4'	–	39	1 1/2"	**7324-4712C-20**
1525	5'	–	39	1 1/2"	**7324-4715C-20**
1830	6'	–	39	1 1/2"	**7324-4718C-20**



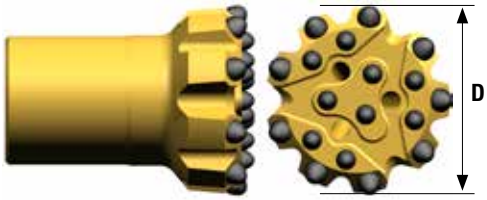
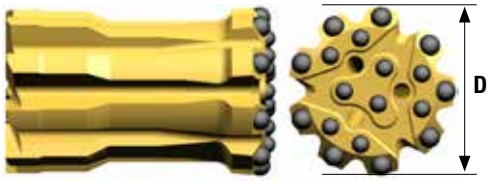
Flushing hole Ø 14.5 mm. Female end OD 56 mm

Pilot adapter	Thread	Dimensions D					Part No.
		L mm	ft	in	D mm	in	
Pilot adapter for reaming of 51 mm (2") pilot holes							
	R38	–	–	–	47	1 7/8"	**7823-2647**

Reamer	Buttons, mm		Angle	Dimensions D		Bit Classifi-cation	Part No.
	Front No Size	Gauge No Size		mm	in		
Reaming bit							
	4x12	8x12	35°	102	4"	–	**7723-4802-S48**
	4x12	8x12	35°	127	5"	–	**7723-4827-S48**

LONG HOLE DRILLING UNDERGROUND

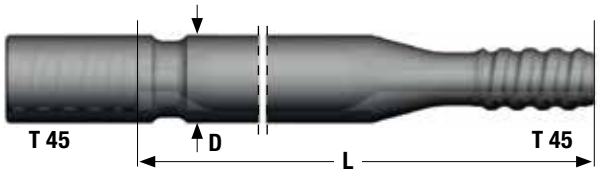
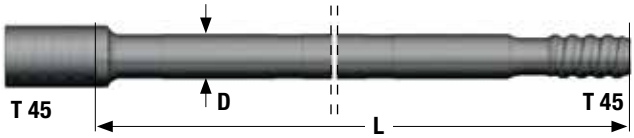
T45 (1 3/4")

Bits	Flushing hole, mm		Buttons, mm		Angle	Dimensions D		Bit Classification	Part No.
	Front No Size	Gauge No Size	Front No Size	Gauge No Size		mm	in		
Button bit, Regular skirt									
	4x8	–	5x10	8x11	30°	70	2 3/4"	HMCVAN	**7515-1870-S48**
	4x8	–	5x11	8x12	35°	76	3"	HMCVAN	**7515-1876-S48**
	4x8	–	5x11	8x12	35°	76	3"	MSCAN	**7515-1876-R48**
	4x9	–	5x13	8x13	35°	89	3 1/2"	HMCVAN	**7515-1889-S48**
	4x9	–	5x13	8x13	40°	89	3 1/2"	HMCAN	**7515-1889-R48**
	3x10	–	9x11	9x13	35°	102	4"	HMCVAN	**7515-1902-S48**
	3x10	–	9x11	9x13	40°	102	4"	MSCAN	**7515-1902-R48**
	2x12	1x7.5	6x10	8x11	35°	76	3"	HMCAN	**7515-2676A-S48**
	3x10	1x7.5	6x10	9x11	35°	89	3 1/2"	HMCAN	**7515-2689A-S48**
	4x8	1x8	4x10	8x11	40°	76	3"	SCFN	**7515-5576A-C60**
Button bit, Retrac skirt									
	4x8	–	5x10	8x11	35°	70	2 3/4"	MSCFAN	**7515-4870-R48**
	4x8	–	5x11	8x12	35°	76	3"	HMCFVAN	**7515-4876-S48**
	4x8	–	5x11	8x12	35°	76	3"	MSCFAN	**7515-4876-R48**
	4x9	–	5x13	8x13	35°	89	3 1/2"	HMCFVAN	**7515-4889-S48**
	4x9	–	5x13	8x13	40°	89	3 1/2"	MSCFAN	**7515-4889-R48**
	3x10	–	9x11	9x13	35°	102	4"	HMCFVAN	**7515-4902-S48**
	3x10	–	9x11	9x13	40°	102	4"	MSCFAN	**7515-4902-R48**
	2x11	1x6	6x10	8x11	35°	76	3"	HMCFAN	**7515-7876A-S48**
	3x10	1x8	6x10	9x11	35°	89	3 1/2"	HMCFAN	**7515-7889A-S48**
Reaming bit									
			3x14	9x14	35°	127	5"	–	**7515-5627-S48**
			7x14	8x14	35°	152	6"	–	**7515-5652-S48**

Pilot diameter: 64 mm

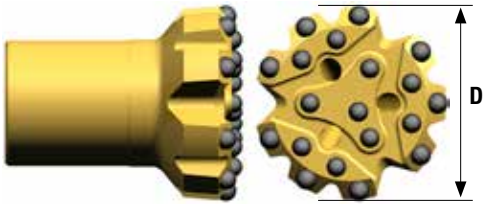
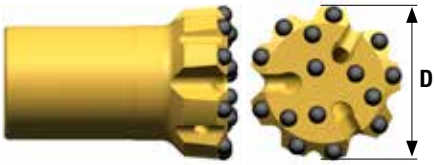
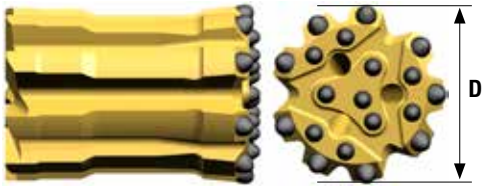
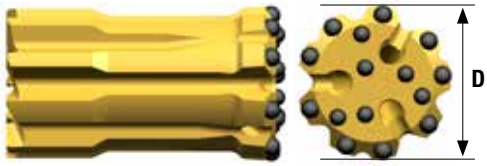
LONG HOLE DRILLING UNDERGROUND

T45 (1 3/4")

Rods	Dimensions D						Part No.
	Bit dia. mm	L mm	ft	in	D mm	in	
Guide tube							
	76-89	1830	6'	–	63	2 31/64"	**7956-6318-21**
Female end Ø 63 mm							
MF-rod, T45 - round 46 - T45							
		1220	4'	–	46	1 3/4"	**7325-7712C-20**
		1525	5'	–	46	1 3/4"	**7325-7715C-20**
		1830	6'	–	46	1 3/4"	**7325-7718C-20**
Flushing hole Ø 17 mm. Female end Ø 63 mm							

LONG HOLE DRILLING UNDERGROUND

T51 (2")

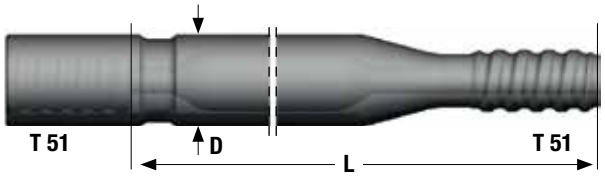
Bits	Flushing hole, mm		Buttons, mm		Angle	Dimensions D		Bit Classification	Part No.
	Front No Size	Gauge No Size	Front No Size	Gauge No Size		mm	in		
Button bit, Regular skirt									
	4x10	–	5x13	8x13	35°	89	3 1/2”	HMCVAN	**7516-1889-S48**
	4x10	–	5x13	8x13	40°	89	3 1/2”	MSCAN	**7516-1889-R48**
	3x13	–	9x11	9x13	40°	102	4"	MSCAN	**7516-1902-R48**
	3x13	–	9x11	9x13	35°	102	4"	HMCVAN	**7516-1902-S48**
	3x14	–	10x12	9x14	35°	115	4 1/2"	HMCVAN	**7516-1915-S48**
	3x14	–	10x13	9x14	35°	127	5"	HMCVAN	**7516-1927-S48**
	3x12	1x8	6x10	9x11	35°	89	3 1/2”	HMCAN	**7516-2689A-S48**
	3x12	1x8	6x12	9x12	35°	102	4"	HMCAN	**7516-2602A-S48**
Button bit, Retrac skirt									
	4x10	–	5x13	8x13	35°	89	3 1/2”	HMCFVAN	**7516-4889-S48**
	4x10	–	5x13	8x13	40°	89	3 1/2”	MSCFAN	**7516-4889-R48**
	3x13	–	9x11	9x13	40°	102	4”	MSCFAN	**7516-4902-R48**
	3x13	–	9x11	9x13	35°	102	4”	HMCFVAN	**7516-4902-S48**
	3x14	–	10x12	9x14	40°	115	4 1/2”	HMCFVAN	**7516-4915-R48**
	3x14	–	10x12	9x14	35°	115	4 1/2”	HMCFVAN	**7516-4915-S48**
	3x14	–	10x13	9x14	35°	127	5”	HMCFVAN	**7516-4927-S48**
	3x12	1x8	6x10	9x11	35°	89	3 1/2”	HMCFAN	**7516-7889A-S48**
	3x12	–	6x12	9x12	35°	102	4”	HMCFAN	**7516-7802-S48**
Reaming bit									
			7x14	8x14	35°	152	6”	–	**7516-5652-S48**

Pilot diameter: 64 mm

LONG HOLE DRILLING UNDERGROUND

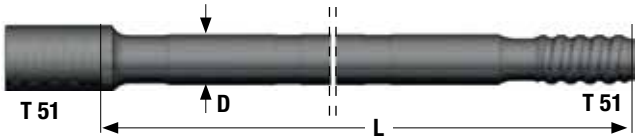
T51 (2")

Rods	Dimensions D						Part No.
	Bit dia. mm	L mm	ft	in	D mm	in	
Guide tube							
	89-102	1830	6'	–	76	3"	**7957-7618-20**



Female end Ø 76

MF-rod, T51 - round 52 - T51						
	1525	5'	–	52	2"	**7326-5515C-20**
	1830	6'	–	52	2"	**7326-5518C-20**

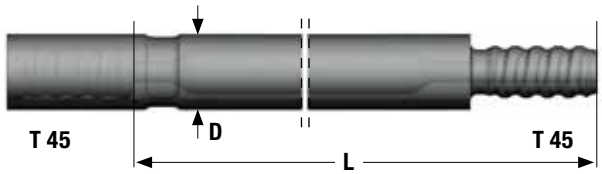


Flushing hole Ø 21.5 mm. Female end Ø 71 mm

LONG HOLE DRILLING UNDERGROUND

T45 (1 3/4") tube drilling tools

Bits	Flushing hole, mm		Buttons, mm		Angle	Dimensions D		Bit Classification	Part No.
	Front No Size	Gauge No Size	Front No Size	Gauge No Size		mm	in		
XDC, button bit									
	4x7.5	–	6x10	8x11	35°	76	3"	HMCVA	**7525-8476-R65**

Tubes	Dimensions D					Part No.
	L mm	ft	in	D mm	in	
Drill tube, T45 - Round 65 - T45						
	1525	5'	–	65	2 1/2"	**7985-6315-26**
	1830	6'	–	65	2 1/2"	**7985-6318-26**

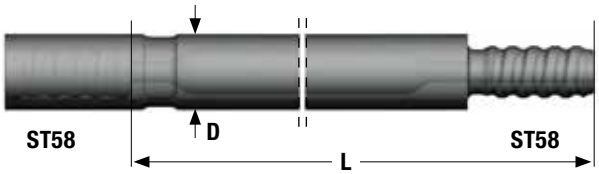
Flushing hole Ø 18 mm

LONG HOLE DRILLING UNDERGROUND

ST58 (2 1/4") tube drilling tools

Bits	Flushing hole, mm		Buttons, mm		Angle	Dimensions D		Bit Classification	Part No.
	Front No Size	Gauge No Size	Front No Size	Gauge No Size		mm	in		
XDC, button bit									
	4x10	–	6x12	8x12	35°	89	3 1/2"	HMCVA	**7528-8489-R65**
XDC, button bit, guide retrac									
	4x10	–	6x12	8x12	35°	89	3 1/2"	HMCVA	**7528-7389-R65**
Button bit, Heavy Duty									
	2x15	–	6x12	8x14	35°	89	3 1/2"	HCV	**7528-6989-S65**
Reaming bit									
			7x14	8x14	35°	152	6"	–	**7528-5652-S65**

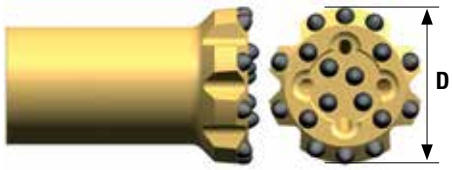
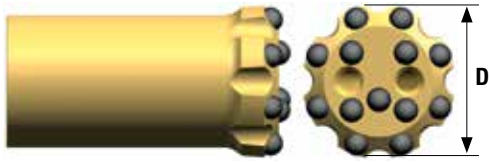
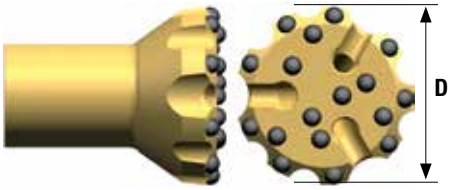
Pilot diameter 76 mm

Tubes	Dimensions D					Part No.
	L mm	ft	in	D mm	in	
Drill tube, ST58 - Round 76 - ST58						
	1525	5'	–	76	3"	**7378-7615-26**
	1830	6'	–	76	3"	**7378-7618-26**

Flushing hole Ø 26 mm

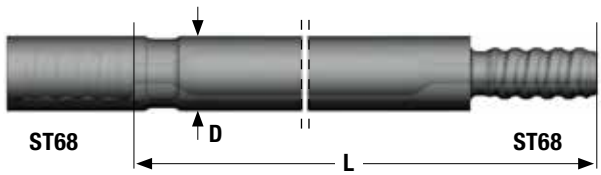
LONG HOLE DRILLING UNDERGROUND

ST68 (2 3/4") tube drilling tools

Bits	Flushing hole, mm		Buttons, mm		Angle	Dimensions D		Bit Classification	Part No.
	Front No Size	Gauge No Size	Front No Size	Gauge No Size		mm	in		
XDC, button bit									
	4x10	–	8x12	10x12	35°	102	4"	HMCVA	**7529-8402-R65**
	4x10	–	8x14	10x14	35°	115	4 1/2"	HMCVA	**7529-8415-R65**
Button bit, Heavy Duty									
	2x15	–	5x14	8x16	35°	102	4"	HCV	**7529-6902-S65**
XDC, button bit, guide retrac									
	4x10	–	8x12	10x12	35°	102	4"	HMCVA	**7529-7302-R65**
	4x10	–	8x14	10x14	35°	115	4 1/2"	HMCVA	**7529-7315-R65**
Collaring bit									
	3x18	–	8x16	9x16	35°	152	6"	–	**7529-6652-S48**
Reaming bit									
			3x16	9x16	35°	152	6"	–	**7529-5652C-S65**
			4x14	16x14	35	204	8"	-	**7529-5604A-S65**

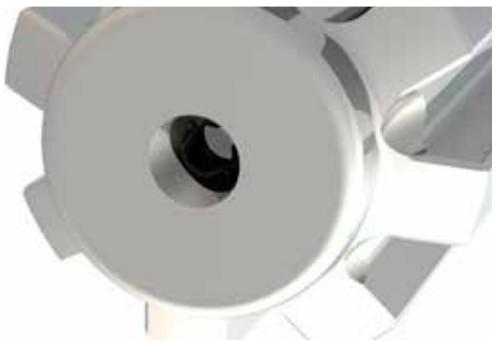
Pilot diameter 95 mm 7529-5652C-S65

Pilot diameter 137 mm 7529-5604A-S65

Tubes	Dimensions D					Part No.	
	L mm	ft	in	D mm	in		
Drill tube, ST68 - Round 87 - ST68							
	1525	5'	–	87	3 1/2"	**7379-8715-26**	
	1525	5'	–	87	3 1/2"	**7379-8715-46**	!
	1830	6'	–	87	3 1/2"	**7379-8718-26**	
	1830	6'	–	87	3 1/2"	**7379-8718-46**	!

Flushing hole Ø 30 mm

! *Permanent back flow valve.*



Internal flushing shank adapters use a water tube inside the rock drill. The tube fits into the end of the shank adapter and is sealed with an O-ring. This allows the water to transfer from the rock drill to shank adapter, which in turn allows it flow through the rest of the drill string.

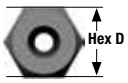
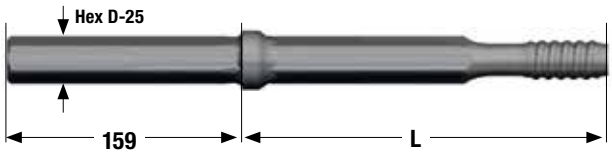
Shank adapters with external flushing can be identified by machined slots in the center of the adapter. The slots are positioned between seals inside the flushing housing / head of the rock drill.

HIGH PRECISION ROCK DRILLING FOR RELIABLE PERFORMANCE AND LOWER COSTS

While every component in the drill string is crucial, the shank adapter must be engineered to transmit impact energy from the rock-drill piston, as well as rotation torque, into the drill string with no losses. It must withstand and transmit up to 6300 blows per minute from the piston continually and do it with great endurance and dependability. With this in mind, Sandvik manufactures premium quality shank adapters for most brands of rock drills.

Hydraulic shanks generally have at least a 5 to 14-spline configuration. Pneumatic shanks tend to have internal or through-flushing. They can be identified by their lugs or 4-spline configuration.

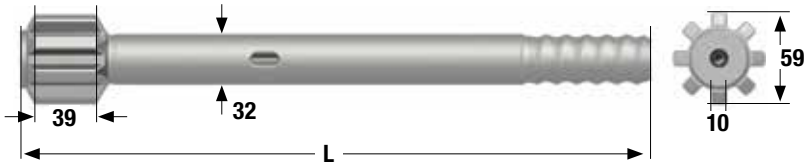
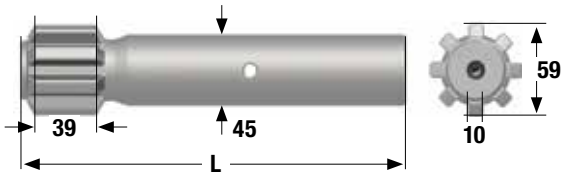
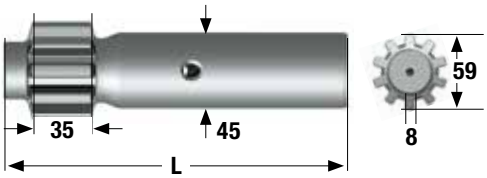
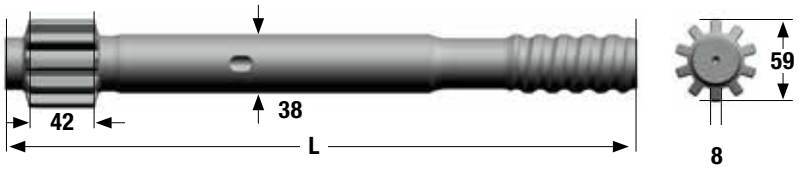
SHANK ADAPTERS

Hexagonal shank adapters		Flushing tube (mm)	Thread	Length (mm)	Part No.
For hexagonal bushing 22 x 108 mm					
		4.5-5.0	R22	255	**7801-6103-11**
		4.5-5.0	R23	255	**7807-6103-11** !
		4.5-5.0	R25	255	**7802-6103-11**
For hexagonal bushing 25 x 108 mm					
		4.5-5.0	R23	255	**7807-7103-30** !
		4.5-5.0	R25	255	**7802-7103-14**
For hexagonal bushing 25 x 159					
		8	R25	255	**7802-7103-21**

! *No packing. Not suitable for hydraulic machines with water flushing.*

SHANK ADAPTERS

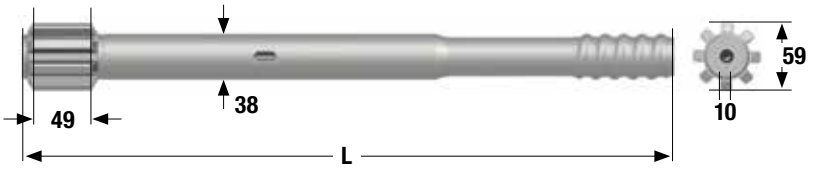
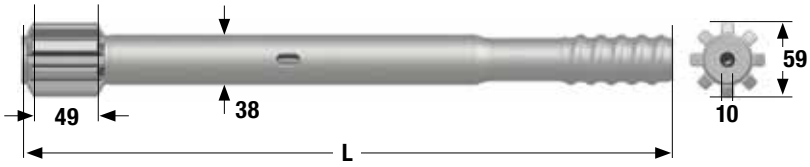
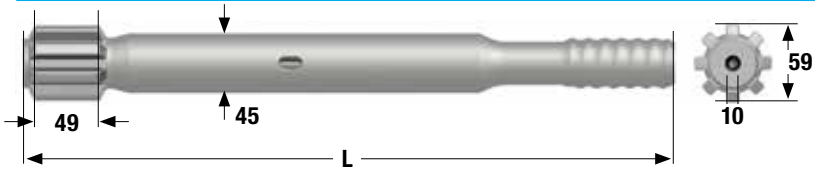
Sandvik

	Applica-tion	Flushing hole (mm)	Thread	Length (mm)	Part No.
HLX 1					
	TU,BO	–	R23	235	**7807-7570-01**
	TU,BO	–	R25	255	**7802-7567-01**
	TU,BO	–	R23	255	**7807-7567-01**
HL 300					
	BE	–	R32	400	**7803-7549-01**
HL 300S					
	BO,TU	–	R28	245	**7809-7547-01**
	BO,TU	–	R32	245	**7803-7547-01**
RD314					
	UG	–	R32	205	**7803-7663-01**
	UG	–	T38	410	**7304-7672-01**
L400, L410, L500, L510, L550					
	BO, PD, TU	10	R32	380	**7803-3602-30**
HLR 438L and HLR 438T					
	BE, TU	12.7	R32	380	**7803-4700-50**
	BE, TU	12.7	T38	400	**7304-4700-50**

- 38 = For 38 mm front head, S=For underground drilling

SHANK ADAPTERS

Sandvik

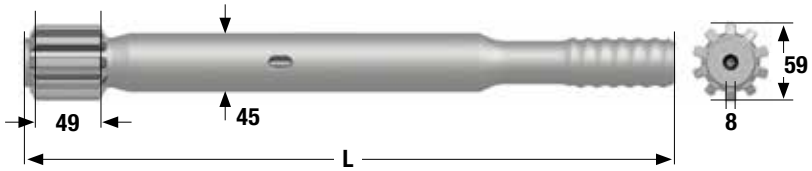
	Applica-tion	Flushing hole (mm)	Thread	Length (mm)	Part No.
HLR 438LS, 438TS, HL 538, HL538L, L550S					
	BE, PD, TU	–	R32	450	**7803-4700-01**
	TU	–	R38	450	**7804-4700-01**
	BE, PD, TU	–	T38	455	**7304-4700-01**
	BE	–	T38	545	**7304-4706-01**
HLR 438LS, HL500-38/HL510-38, HL538L, L550S					
	BE	–	R32	550	**7803-7535-02**
	BE	–	T35	550	**7307-7535-02**
	BE	–	T38	550	**7304-7535-02**
	BE	–	R38	550	**7804-7535-02**
HL 500-45 / HL510-45					
	BE	–	R32	550	**7803-7557-01**
	BE	–	T35	550	**7307-7557-01**
	BE	–	T38	550	**7304-7557-01**
	BE	–	T45	550	**7305-7557-01**
HL 500 S-38 / 510 S-38 / 510 B / 510 LH					
	PD,TU	–	R32	460	**7803-7531-01**
	TU	–	R38	460	**7804-7531-01**
	PD,TU	–	T38	460	**7304-7531-01**
	TU	–	R38	500	**7804-7536-01**
	PD,TU	–	T38	500	**7304-7536-01**
HL 500 F / HL510 F					
	BO	–	R32	350	**7803-7553-01**
HL 550 SUPER / HL560 SUPER / HL510 S-45					
	TU	–	T35	460	**7307-7566-01**
	PD,TU	–	T35	550	**7307-7557-01**
	TU	–	R38	500	**7804-7554-01**
	TU	–	T38	500	**7304-7554-01**

- 38, -45 = For 38 or 45 mm front head, S=For underground drilling

SHANK ADAPTERS

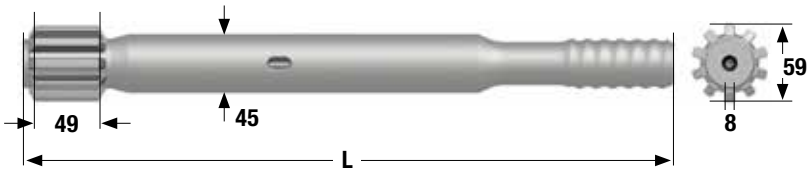
Sandvik

HLX 5 / HLX 5T



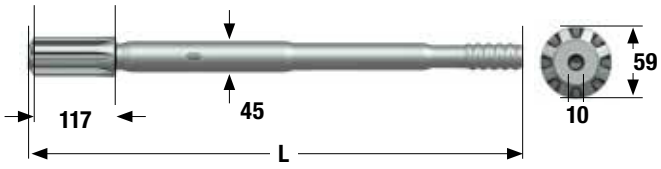
Application	Flushing hole (mm)	Thread	Length (mm)	Part No.
TU	–	R32	500	7803-7585-01
TU	–	T35	500	7307-7585-01
TU	–	T38	500	7304-7585-01
TU	–	R38	500	7804-7585-01
BE	–	R32	575	7803-7586-01
BE	–	T35	575	7307-7586-01
BE	–	T38	575	7304-7586-01
BE	–	T45	575	7305-7586-01

HFX 5T



Application	Flushing hole (mm)	Thread	Length (mm)	Part No.
TU	–	T38	720	7304-7668-01
TU	–	T35	720	7307-7668-01

HLX5 PE-45



Application	Flushing hole (mm)	Thread	Length (mm)	Part No.
TU	–	R32	575	7803-7664-01
TU	–	T38	575	7304-7664-01
TU	–	T35	575	7307-7664-01
TU	–	T38	720	7304-7671-01
TU	–	T35	720	7307-7671-01

RD520/RD525 - PE

Application	Flushing hole (mm)	Thread	Length (mm)	Part No.
TU	–	T38	745	7304-7673-01
TU	–	T35	745	7307-7673-01

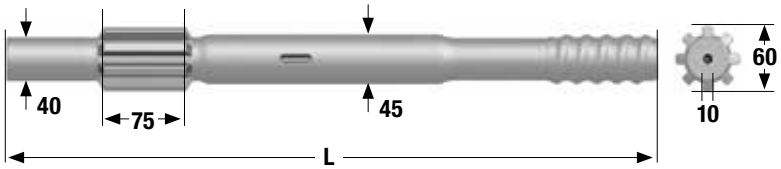
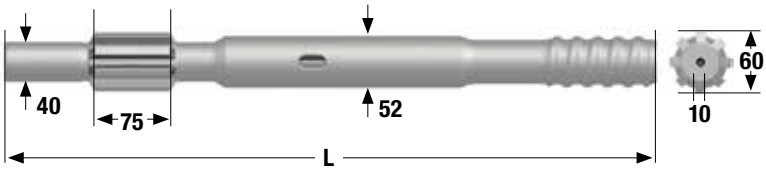
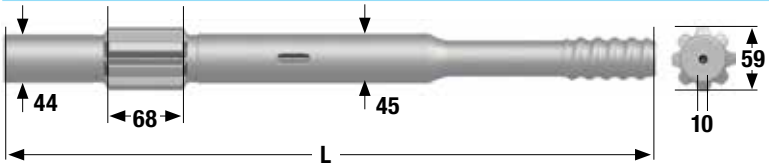
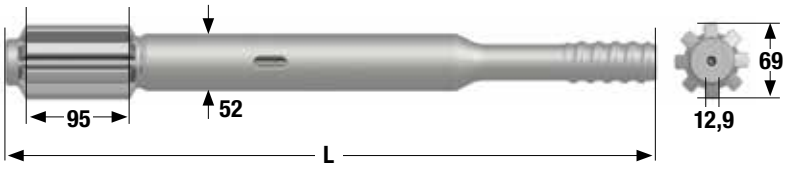
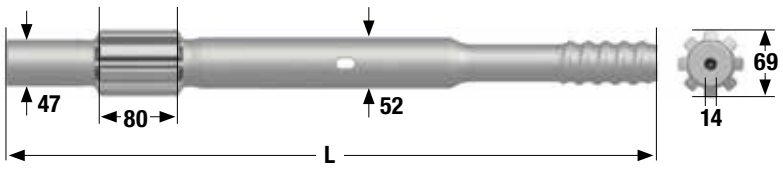
RD520/RD525

Application	Flushing hole (mm)	Thread	Length (mm)	Part No.
TU	–	T38	525	7304-7669-01
TU	–	T38	600	7304-7666-01
TU	–	T35	600	7307-7666-01
TU	–	T38	745	7304-7685-01
TU	–	T35	745	7307-7685-01
TU	–	R32	745	7803-7685-01

- 38, -45 = For 38 or 45 mm front head, S=For underground drilling

SHANK ADAPTERS

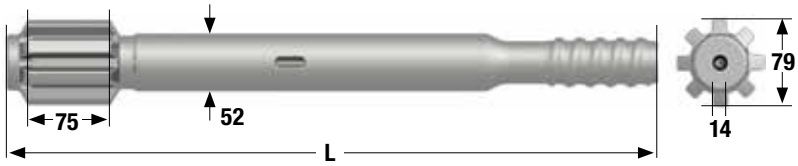
Sandvik

	Applica-tion	Flushing hole (mm)	Thread	Length (mm)	Part No.
HL 600-45 / HL 600 S-45					
	BE	–	R32	600	**7803-7532-01**
	BE	–	T38	600	**7304-7532-01**
	Tubes, BE	–	T45	600	**7305-7532-01**
	TU,PD	–	T38	525	**7304-7537-01**
	TU,PD	–	T45	525	**7305-7537-01**
HL 600-52					
	BE	–	T45	650	**7305-7551-01**
	BE	–	T51	650	**7306-7551-02**
HL 645					
	BE	–	T38	600	**7304-7541-02**
	BE	–	T45	600	**7305-7541-02**
HL700/HL710-45/HL800T-45/HL810T-45/HF810T-45/HL650-45					
	BE	–	T38	600	**7304-7576-01**
	BE	–	T45	600	**7305-7576-01**
HL700/HL710-52/HL710PE-52/HL700LH/HL710S-52/HL710SPE-52/T45/HL650-52/HL800T-52/HL800T/PE-52/HL810T-52/HF810T-52					
	BE,PD	–	T38	600	**7304-7577-02**
	BE	–	T45	600	**7305-7577-02**
	BE	–	T51	600	**7306-7577-03**
HL 850S					
	BE, PD	–	T45	670	**7305-7400-01**
	BE, PD	–	T51	670	**7306-7400-02**

-45, -52 = For 45 or 52 mm front head, PE= For Power Extractor rock drill (reverse hammering), S=For underground drilling

SHANK ADAPTERS

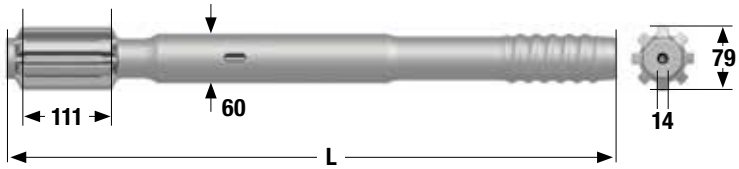
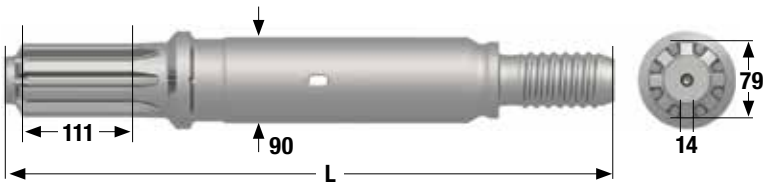
Sandvik

	Applica-tion	Flushing hole (mm)	Thread	Length (mm)	Part No.
HL1000/HL 1010, HL1000S/HL 1010S-52					
	BE	–	T45	670	**7305-6010-01**
	BE	–	T51	670	**7306-6010-02**
	PD	–	T45	590	**7305-6008-01**
	PD	–	T51	590	**7306-6008-01**
HL 1000-60/HL 1010-60					
	BE	–	T51	670	**7306-6014-02**
	BE	–	GT60	670	**7600-6014-02**
	BE	–	ST58	670	**7358-6014-01**
HL 1000-80/HL 1010-80, Shoulder drive					
	BE	–	GT60	760	**7600-6031-01**
HL1000/HL 1000S-80, HL1000-80/HL1010-80					
	PD	–	ST58	635	**7328-6009-02**
	PD	–	ST68	640	**7329-6009-02**
HL1000PE-65, HL1010PE-65, HL1060T/PE-65, HL1500T/PE-65, HL1560T/PE-65					
	BE,	–	T51	760	**7306-6025-02**
	BE,	–	GT60	760	**7600-6025-02**
	BE,	–	ST58	760	**7358-6025-02**

-52, -60, -65, -80 = For 52, 60, 65 or 80 mm front head, PE= For Power Extractor rock drill (reverse hammering), S=For underground drilling

SHANK ADAPTERS

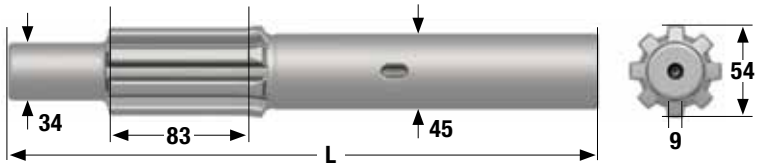
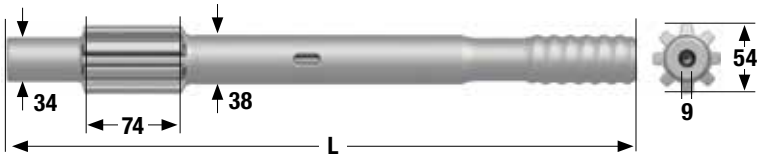
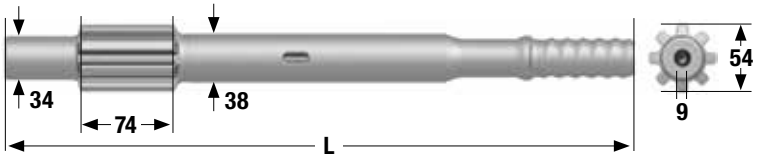
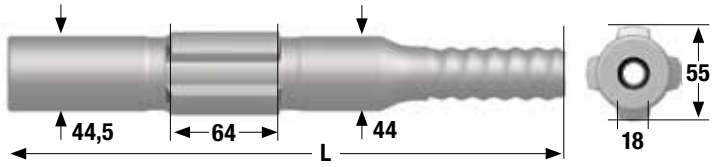
Sandvik

	Applica-tion	Flushing hole (mm)	Thread	Length (mm)	Part No.
HL 1500-52 / 1500 T-52					
	BE	–	T51	710	**7306-6021-02**
HL 1500-60 / 1500 T-60					
	BE	–	T51	760	**7306-6022-02**
	BE	–	GT60	760	**7600-6022-03**
HL 1500-80/1560T-80/HL1060T-80/HF1560, Shoulder drive					
	BE	–	GT60	760	**7600-6030-05**
	BE		ST68	630	**7329-6034-05**
	PD	–	ST58	635	**7328-6020-01**
	PD	–	ST68	635	**7329-6020-05**
HL1500T/PE-90/HL1500ST/PE-90/ HL1560T/PE-90/HL1560ST/PE-90					
	PD	–	ST58	635	**7328-6035-01**
	PD	–	ST68	635	**7329-6035-05**
	BE	–	GT60	760	**7600-6032-05**

-52, -60, -80, -90 = For 52, 60, 80 and 90 mm front head, PE= For Power Extractor rock drill, S=For underground drilling, T= Drill with stabilizer

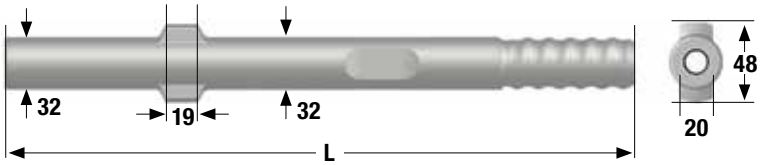
SHANK ADAPTERS

Sandvik

	Applica-tion	Flushing hole (mm)	Thread	Length (mm)	Part No.
Hydrastar 200					
	TU,BO	–	R32	351	**7803-4703-01**
Hydrastar 200, 300 and X2					
	TU	–	R32	485	**7803-3590-03**
	TU	–	R38	485	**7804-3590-03**
	TU	–	T38	485	**7304-3590-03**
Hydrastar 350					
	BE	–	R32	500	**7803-3591-01**
	TU	–	R38	485	**7804-3590-03**
	BE	–	T38	500	**7304-3591-01**
Toyo PR 220					
	BE	14	R32	330	**7803-7500-61**
	BE	14	T38	446	**7304-7500-60**
Toyo TH 501					
	BE	11	T38	565	**7304-7583-40**

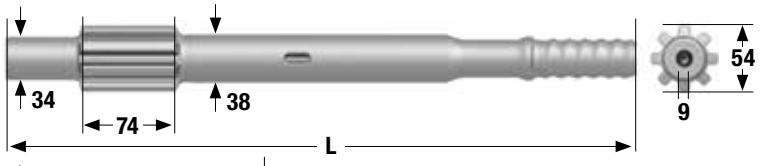
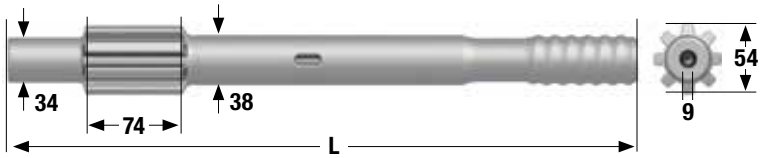
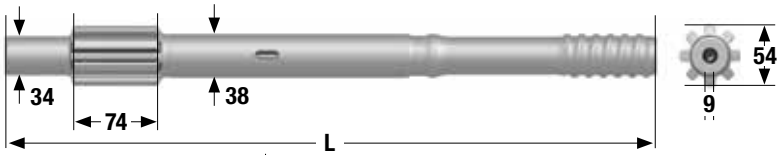
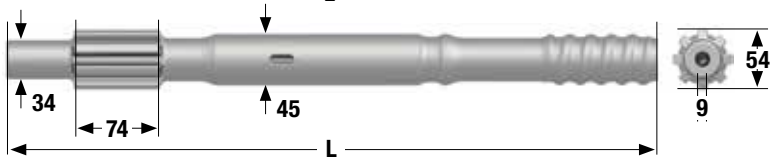
SHANK ADAPTERS

Atlas Copco

	Applica-tion	Flushing hole (mm)	Thread	Length (mm)	Part No.
Atlas Copco BBC 43, 44, 45 and 100					
	TU	10	R32	380	**7803-3100-30**
Atlas Copco BBC 51, 52, 54 and 120					
	TU	10	R32	380	**7803-4200-30**
	TU	10	T38	390	**7304-4200-30**
Atlas Copco BBE 57					
	BE	14	T38	537	**7304-7502-60**
Atlas Copco COP 125, 130 and 131					
	TU,BE,PD	14	T38	380	**7304-4500-60**
Atlas Copco COP 1032 HD					
	TU,BO	–	R32	340	**7803-3588-01**
	TU,BO	–	R38	340	**7804-3575-01**

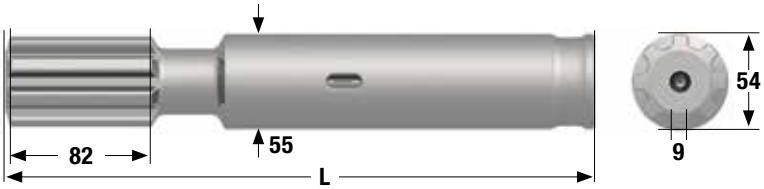
SHANK ADAPTERS

Atlas Copco

	Applica-tion	Flushing hole (mm)	Thread	Length (mm)	Part No.
Atlas Copco COP 1032 LE					
	BE,DS	–	R32	550	**7803-3576-01**
Atlas Copco COP 1036/1038 HB					
	BE	–	R32	500	**7803-3591-01**
	BE	–	T38	500	**7304-3591-01**
	BE	–	T45	500	**7305-3591-01**
Atlas Copco COP 1038 HD/1238					
	TU	–	R32	485	**7803-3590-03**
	TU	–	R38	485	**7804-3590-03**
	TU	–	T38	485	**7304-3590-03**
Atlas Copco COP 1038 HL					
	BE,PD	–	R32	575	**7803-3593-01**
	BE,PD	–	T38	575	**7304-3593-01**
	BE,PD	–	T45	575	**7305-3593-01**
Atlas Copco COP 1132					
	PD	–	R32	410	**7803-3581-01**
	PD	-	R32	500	**7803-3583-01**

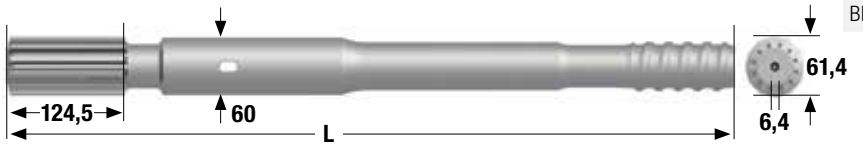
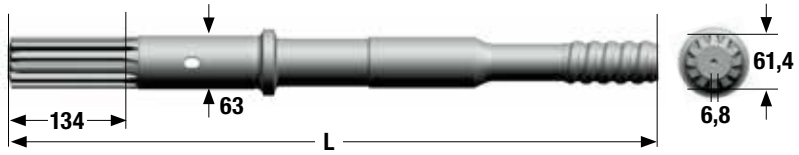
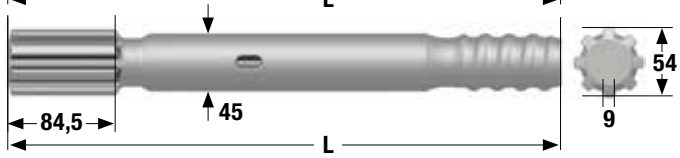
SHANK ADAPTERS

Atlas Copco

	Application	Flushing hole (mm)	Thread	Length (mm)	Part No.
Atlas Copco COP 1238					
	BE	–	R32	500	**7803-3591-01**
	BE	–	T38	500	**7304-3591-01**
	TU	–	R38	485	**7804-3590-03**
	TU	–	T38	485	**7304-3590-03**
	BE	–	T45	500	**7305-3591-01**
	BE,PD	–	R32	575	**7803-3593-01**
	BE,PD	–	T35	575	**7307-3593-01**
	BE,PD	–	T38	575	**7304-3593-01**
	BE,PD	–	T38	575	**7304-3550-01**
	BE,PD	–	T45	575	**7305-3593-01**
Atlas Copco COP 1432, COP 1532, COP1440, COP1838 HD/ME					
	TU	–	R38	435	**7804-3652-01**
	TU	–	T35	435	**7307-3652-01**
	TU	–	T38	435	**7304-3652-01**
	TU	–	R32	435	**7803-3652-01**
	BO	–	R32	525	**7803-3656-01**
	BE	–	T35	525	**7307-3656-01**
	BO	–	T38	525	**7304-3656-01**
Atlas Copco COP 1432 Female					
	TU	–	R38	341	**7804-3670-02**
	TU	–	R32	341	**7803-3670-02**

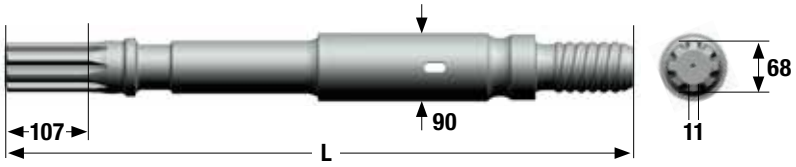
SHANK ADAPTERS

Atlas Copco

	Applica-tion	Flushing hole (mm)	Thread	Length (mm)	Part No.
Atlas Copco COP 1550, COP 1838 ME/ HE					
	BE,PD	–	T38	525	7304-3655-01
	BE,PD	–	T45	525	7305-3655-01
	BE,PD	–	T51	525	7306-3655-02
Atlas Copco COP 1550 EX, COP 1838 EX					
	BE	–	T38	730	7304-3825-02
	BE	–	T45	730	7305-3826-02
Atlas Copco COP 1840 HE, COP 1850					
	BE,PD	–	T35	565	7307-3690-01
	BE,PD	–	T38	565	7304-3690-02
	BE,PD	–	T45	565	7305-3690-02
	BE,PD	–	T51	565	7306-3690-03
Atlas Copco COP 2150, COP 2550					
	BE	-	T51	770	7306-3692-01
Atlas Copco COP 2160, COP 2560					
	BE	–	T51	770	7306-3689-01
Atlas Copco COP2160EX/2560EX					
	BE	–	T51	770	7306-3699-01
	BE	–	GT60	770	7600-3699-01
Atlas Copco COP 3038					
	TU	–	T38	435	7304-3666-01
	TU	–	T45	435	7305-3667-01
	TU	–	T35	440	7307-3668-01
	TU,PD	–	T35	525	7307-3671-01

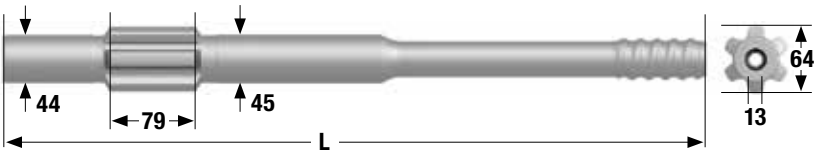
SHANK ADAPTERS

Atlas Copco/Boart

	Applica-tion	Flushing hole (mm)	Thread	Length (mm)	Part No.
Atlas Copco COP 4050 MUX					
	PD	–	ST68	835	**7329-3720-01**
	PD	–	ST58	835	**7328-3720-01**
Boart HD 125, HD 150, HD 160					
	TU	–	R38	495	**7804-4993-01**
	TU	–	T38	495	**7304-4993-01**

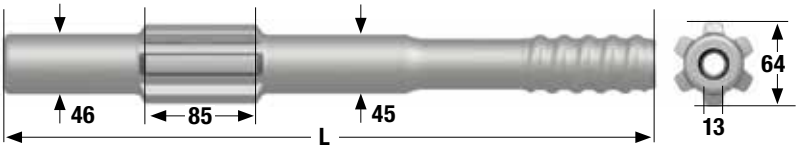
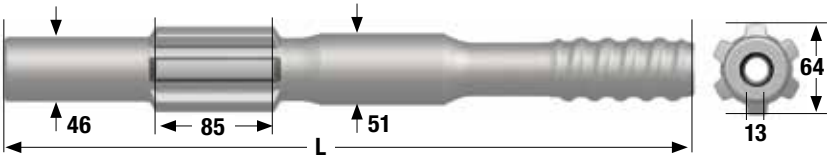
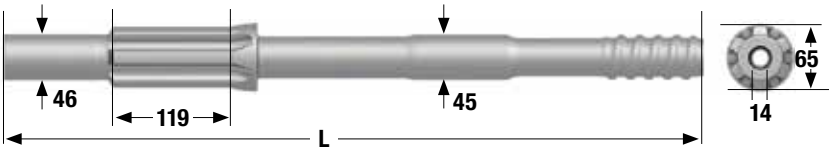
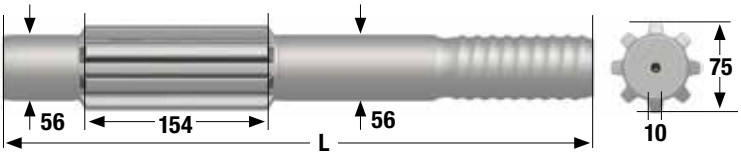
SHANK ADAPTERS

Furukawa

	Applica-tion	Flushing hole (mm)	Thread	Length (mm)	Part No.
Furukawa M 120 and PD 200					
	BE	14	R32	330	**7803-7500-61**
	BE	14	T38	380	**7304-7543-60**
	BE	14	T38	446	**7304-7500-60**
Furukawa PD 200R					
	BE	14	T38	484	**7304-7581-60**
Furukawa HD 260, HD 300					
	BE	16	T38	655	**7304-7526-80**
	BE	16	T45	655	**7305-7526-80**
Furukawa HD 609					
	BE	–	T38	620	**7304-4791-01**
	BE	–	T38	690	**7304-4780-01**
	BE	–	T45	620	**7305-4791-01**
Furukawa HD 612					
	BE	–	T45	710	**7305-7414-01**
Furukawa HD 709					
	BE	–	T38	620	**7304-7426-01**
Furukawa HD 712					
	BE	-	T45	788	**7305-7417-01**

SHANK ADAPTERS

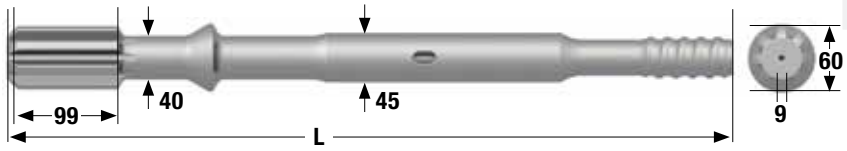
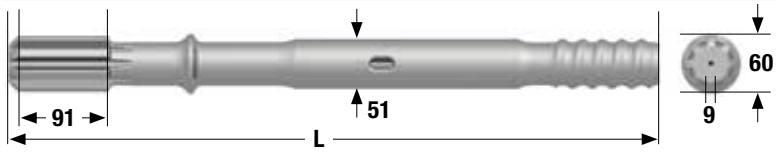
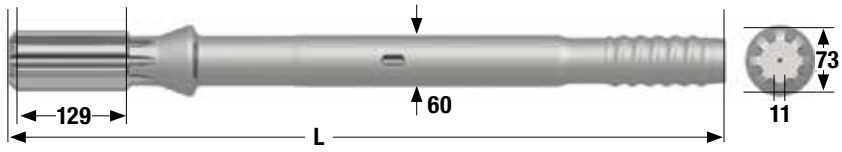
Gardner-Denver, Ingersoll-Rand and Klemm

	Application	Flushing hole (mm)	Thread	Length (mm)	Part No.
Gardner-Denver PR 123					
	TU,BE	14	R32	330	**7803-7500-61**
	TU,BE	14	R32	380	**7803-7543-60**
	TU	14	R38	350	**7804-7500-60**
	TU,BE	14	T38	446	**7304-7500-60**
	TU,BE	14	T38	380	**7304-7543-60**
Ingersoll-Rand URD 475, URD 550, VL120, EVL 130, VL140 and F16					
	BE	14	R32	330	**7803-7500-61**
	BE	14	R32	380	**7803-7543-60**
	BE	14	T38	380	**7304-7543-60**
	BE	14	T38	446	**7304-7500-60**
Ingersoll-Rand YH 65, YH 80					
	BE	19	T38	495	**7304-7525-19**
	BE	19	T45	500	**7305-7525-19**
Ingersoll-Rand YH 80 A					
	BE	19	T45	495	**7305-7559-19**
Ingersoll-Rand YH 65 RP, YH 70 RP, YH 75 RP, YH 80 RP					
	BE	19	T45	700	**7305-7546-19**
Klemm 4053					
	BE	–	R55	500	**7805-6015** [1]
	BE	–	R55	500	**7805-7015** [2]

[1] *LH-Rotation*
[2] *RH-Rotation*

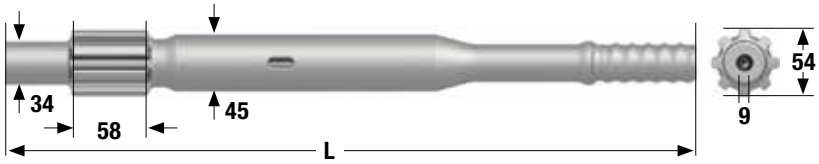
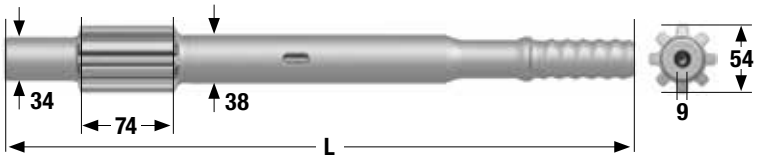
SHANK ADAPTERS

Montabert

	Applica-tion	Flushing hole (mm)	Thread	Length (mm)	Part No.
Montabert HC40					
	BE	–	R32	447	7803-4725-01
	BE	–	R38	447	7804-4725-01
	BE	–	T38	447	7304-4725-01
Montabert HC40 (female)					
	TU, BO	–	R32	270	7803-4726-01
Montabert HC 80, HC 90, HC 105					
	TU	–	R38	440	7804-4720-01
	TU	–	T38	440	7304-4720-01
Montabert H 100					
	BE	14	T38	537	7304-7502-60
Montabert HC 80R, HC 105R, HC 107R, HC 108R, HC 109R					
	BE	–	T38	670	7304-7544-01
Montabert HC 80, HC 120					
	BE	–	T45	490	7305-7520-01
Montabert HC 120R, HC 150R, HC 155R, HC 158R					
	BE	–	T51	670	7306-7528-02
Montabert HC 200A					
	BE	–	T51	840	7306-7530-02
	BE	–	GT60	840	7600-7530-02

SHANK ADAPTERS

SIG

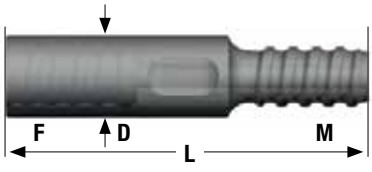
	Applica-tion	Flushing hole (mm)	Thread	Length (mm)	Part No.
SIG HBM 50, 100 and 120					
	BO	–	R32	340	**7803-3588-01**
SIG HBM 100 and 120					
	TU, BO	–	R38	340	**7804-3575-01**
SIG HBM 50, 100 and 120					
	BE, DS	–	R32	550	**7803-3576-01**
SIG 101					
	BE	–	R32	500	**7803-3591-01**

WHEN EVERY MINUTE COUNTS, "THE RIGHT TOOLS FOR THE RIGHT JOB"

Auxiliary tools are an important part of the drilling application; that's why we apply top grade tools to keep the process going and avoid further downtime. Sandvik accessories for Top Hammer Drilling tools are simple, practical additions. Their purpose is to enable the tool system to be tailored to meet different demands in different applications and working environment. Additional, Sandvik auxiliary tools optimize the system providing higher productivity, reliability and lower operating costs with minimal enviromental impact.

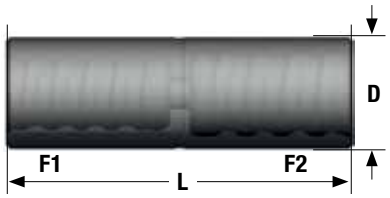
AUXILIARY TOOLS

Bit adapters



Wrench flat	Threads		Dimensions				Part No.
(mm)	F (Female)	M (Male)	L (mm)	L (in)	D (mm)	D (in)	
28,5	R23	R32	200	7 7/8”	35	1 3/8”	7837-3301
38	R25	R32	173	6 13/16”	45	1 3/4”	7832-3301
38	R28	R32	230	9 1/16”	40	1 37/64”	7839-3301
38	R32	T38	225	8 55/64”	45	1 49/64”	7833-4401
38	R32	R38	225	8 55/64”	45	1 49/64”	7833-4301
38	T35	T38	250	9 27/32”	48	1 7/8”	7337-4401
44,5	R38	R32	270	10 41/64”	55	2 5/32”	7834-3303
44,5	R38	T38	245	9 21/32”	55	2 5/32”	7834-4401
44,5	T38	R32	270	10 41/64”	57	2 1/4"	7334-3301
44,5	T38	T45	285	11 7/32"	57	2 1/4"	7334-5401
44,5	T38	R38	280	11 1/32”	57	2 1/4”	7334-4301
38	T45	T38	265	10 7/16"	63	2 31/64"	7335-4401
44,5	T45	T51	285	11 7/32"	63	2 31/64"	7335-6401
44,5	T51	T45	285	11 7/32"	71	2 51/64"	7336-5401

Reduction couplings

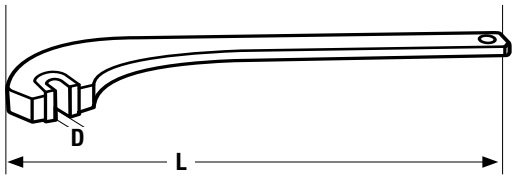


Threads		Dimensions				Part No.
F1	F2	L (mm)	L (in)	D (mm)	D (in)	
R32	R28	165	6 1/2”	44	1 47/64”	7993-0444
R32	R25	160	6 1/4”	43	1 11/16”	7993-2443
R38	R32	170	6 3/4”	55	2 5/32”	7994-3455
T38	R32	195	7 11/16”	55	2 5/32”	7314-3555
T38	R38	185	7 9/32”	55	2 5/32”	7314-4455
T38	T45	180		58	2 9/32”	7314-6258
T38	T45	180	8 43/64”	61	2 13/32”	7314-6261
T51	T45	218	8 19/32”	71	2 51/64”	7316-6271

AUXILIARY TOOLS

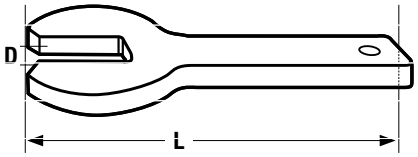
Wrenches and knock-off tools

For integral drill steels and shank rods



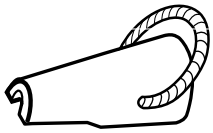
	Dimensions					Part No.
	L (mm)	L (ft)	L (in)	D (mm)	D (in)	
Hex 22	600	1'	11 5/8"	22	7/8"	**795-1408**

For extension rods



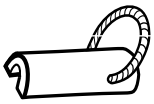
Hex 25, Round 32	300	-	11 13/16"	25	1"	**795-1431**
Hex 32, Round 39	370	1'	2 9/16"	32	1 1/4"	**795-1432**
Round 46	370	1'	2 9/16"	38	1 1/2"	**795-1494**
DTH	380	1'	2 31/32"	65	2 7/12"	**795-1495**

Knock-off-tools for Hex 22 and Hex 25



Pilot rods, type 7922-XXXX-XX	-	-	-	-	-	**795-1469**

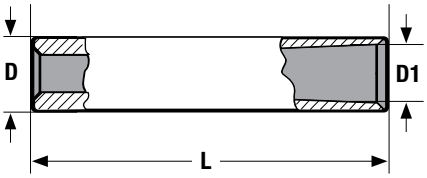
Knock-off-tools for tapered bits



Hex 22	-	-	-	-	-	**795-1467**

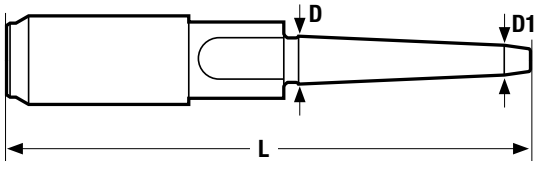
Fishing tools

Fishing sleeve



	Dimensions				Part No.
	D	D1	L	Thread	
R32 round/Hex. rods/coupling sleeves	49	47,2	300	R32	**795-1604A**
R38 round rods/coupling sleeves	60	–	353	R38	**795-1605**
T35 round rods/coupling sleeves	52	50	284	T35	**795-1613**
T38 round rods/coupling sleeves/MF-rods	61	58,2	353	T38	**795-1607A**
T45 round rods/coupling sleeves/MF-rods	71	68	393	T45	**795-1608**
T51 round rods/coupling sleeves/MF-rods	82	78,2	440	T51	**795-1609A**
GT60 rods	92	87,5	450	GT60	**795-2601**
ST68 tubes Ø87	102	92	410	ST68	**795-1696**

Fishing pike



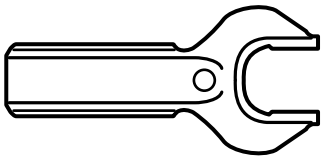
R32 rods [1]	19,4	4	280	R32	**795-1606**
T38 rods [2]	19,4	8	237	T38	**795-1676**
T45 rods [2]	25	8	275	T45	**795-1681**
T51 rods [2]	27	15	285	T51	**795-1690**
ST58 tubes Ø76 [2]	57	22	400	ST58	**795-1699**
ST68 tubes Ø87 [2]	71	35	431	ST68	**795-2600**
GT60 rods	50	19,6	500	GT60	**795-2604**

[1] Without flushing hole
[2] With flushing hole

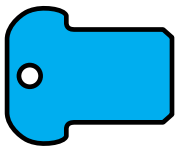
AUXILIARY TOOLS

Thread grease	Dimensions			Part No.
	D (mm)	L (mm)	Weight (kg)	
For integral drill steels and shank rods				
Can	215	170	4,5	**795-1960**
Can	300	380	18	**795-1961**
Tube	53/57	235	0,4	**795-1962**
Low temp. Can	300	380	18	**795-1963**
Barrel	370	690	50	**795-1967**
Barrel	610	870	240	**795-1964**

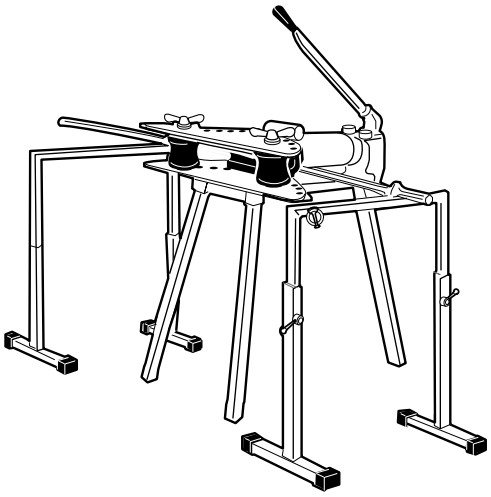
Gauges	Dimensions	Part No.
Gauges / Wear gauge for male and female threads		
R22		**795-1331**
R25		**795-1332**
R32		**795-1333**
R38		**795-1334**



Gauges / Chuck wear gauge		
Hex 19		**795-2301-19**
Hex 22		**795-2301-22**
Hex 25		**795-2301-25**



Drill steel straightener	Prod. Info	Part No.
Drill steel straightener for Hex19 to Round 52		
	Manual/Hydraulic	**796-2930**
	Electric/Hydraulic, 380V/50Hz	**796-2930-52**
	Support leg, 1 piece	**796-2931**



INFORMATION

Grinding of Hardmetal – Health and Safety Information

Material Composition
Hardmetal products contain tungsten carbide and cobalt.

Routes of exposure
Grinding or heating hardmetal blanks or hardmetal products will produce dusts or fumes with dangerous ingredients that can be inhaled, swallowed or come in contact with the skin or eyes.

Acute toxicity
The dust is toxic by inhalation. Inhalation may cause irritation and inflammation in the airways. Skin contact can cause irritation and rash. Sensitized persons may experience an allergic reaction.

Chronic toxicity
Repeated inhalation of aerosols containing cobalt may cause obstruction in the airways. Prolonged inhalation of increased concentrations may cause lung fibrosis or lung cancer. Epidemiological studies indicate that workers exposed in the past to high concentrations of tungsten carbide/cobalt carried an increased risk of developing lung cancer.

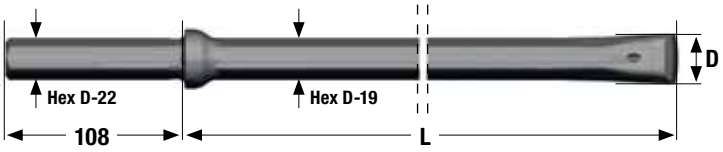
Cobalt and nickel are potent skin sensitizers. Repeated or prolonged contact can cause sensitization.

Classification
- Following hazard classification according to GHS/CLP applies to the hardmetal powder (2.5%≤Co<25%):
- Acute Inhalation 3, H331: Toxic if inhaled
- Carc. Cat. 2, H351: Suspected of causing cancer by inhalation
- Repr. 2, H361; Suspected of damaging fertility.
- STOT RE 1, H372: Causes damage to lungs through prolonged or repeated exposure by inhalation
- Resp. Sens. 1B, H334 : May cause allergy or asthma symptoms or breathing difficulties if inhaled
- Skin Sens.1, H317: May cause an allergic skin reaction
- Eye Irrit. 2, H319: Causes serious eye irritation
- Aquatic Acute 1, H400: Very toxic to aquatic life
- Aquatic Chronic 2, H411: Toxic to aquatic life with long lasting effects

Precautionary Statements
- Do not breathe dust
- Wear protective gloves/protective clothing/eye protection.
- Use personal protective equipment as required. In case of inadequate ventilation wear respiratory protection
- Avoid release to the environment
- IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician
- If skin irritation or rash occurs: Get medical advice/attention

CODE KEY INTEGRAL DRILL STEELS

7XX – YYZZ - QQ



Main code 7XX	Sub code YYZZ	3:rd code group QQ
714 = 22x108 shank, Hex 22 chisel	YY = effective length in dm ZZ = bit diameter in mm	50 = insert height 17 mm 65 = insert height 19 mm
724 = 19x108 shank, Hex 19 chisel	YY = effective length in dm ZZ = bit diameter in mm	
728 = 22x108 shank, Hex 19 chisel	YY = effective length in dm ZZ = bit diameter in mm	

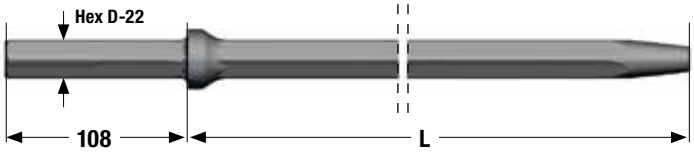
CODE KEY TAPERED BITS

7XXX – YYZZ - QQ

Main code 7XX	Sub code YYZZ	3:rd code group QQ
7770 = 12deg Long skirt 7776 = 11deg 7788 = 7deg 7795 = 12deg Short skirt	YY = 19, 3 gauge buttons YY = 44/52 Normal,5 gauge buttons YY = 54,6 gauge buttons YY = 64 Normal, 4 gauge buttons YY = 90 Cross bit HD ZZ = Bit diameter in mm	(Q) = S spherical buttons (Q) = B ballistic buttons QQ = 42 CC-grade 442 (inserts) QQ = 48 CC-grade XT48 (buttons)

CODE KEY TAPERED RODS

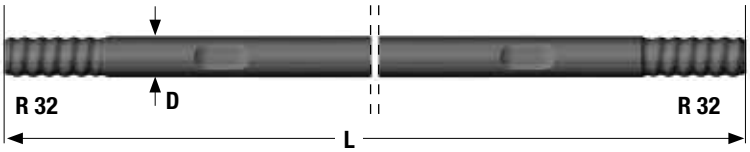
7XXX – YYZZ - QQ



Main code 7XXX	Sub code YYZZ	3:rd code group QQ
7870 = 12deg 7876 = 11deg 7888 = 7deg	YY = 11 HF hardened , Sanbar 20 YY = 51 HF hardened , Sanbar 61 YY = 61 Carburized, Sanbar 64 ZZ = approximate length in dm	11 = no packing

CODE KEY EXTENSION RODS

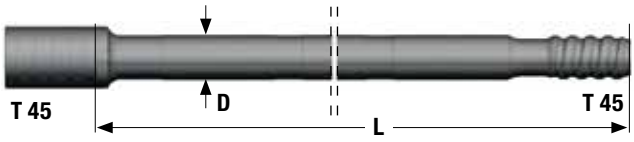
7XXX – YYZZ - QQ



Main code 7XXX	Sub code YYZZ	3:rd code group QQ
7851 = R22 7852 = R25 7853 = R32 7854 = R38 7857 = R23	YY = 13 Hex22 YY = 23 Hex25 YY = 33 Round33 YY = 43 Round39 ZZ = approximate length in dm	20 = Carburized 30 = HF-hardened
7324 = T38 7325 = T45 7326 = T51	YY = 43 Round39 YY = 73 Round46 YY = 53 Round52 ZZ = approximate length in dm	20 = Carburized 30 = HF-hardened

CODE KEY MF RODS

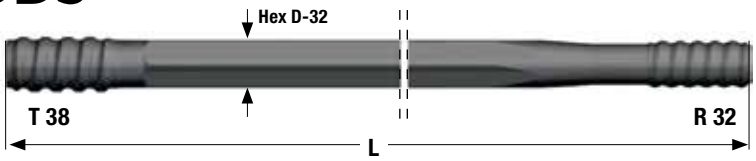
7XXX – YYZZ - QQ



Main code 7XXX	Sub code YYZZ	3:rd code group QQ
7853 = R32 7857 = R23	YY = 48 Hex22 YY = 51 Round32 ZZ = approximate length in dm	20 = Carburized
7324 = T38 7325 = T45 7326 = T51 7327 = T35 7610 = GT60	YY = 47 Round39 YY = 77 Round46 YY = 55 Round52 YY = 11 Round60 YY = 14 Round60, for 92mm bits ZZ = approximate length in dm	20 = Carburized 70 = Sandvik Tough

CODE KEY DRIFTER RODS

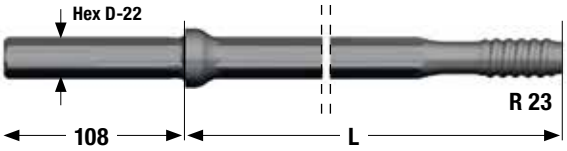
7XXX – YYZZ - Q



Main code 7XXX	Subcode YY ZZ = approximate length in dm			3:rd code group Q
7853 = R32 shank end 7854 = R38 shank end 7324 = T38 shank end 7327 = T35 shank end	Code	Steel Section	Bit thread	20 = Carburized
	24	Hex25	R25	
	30	Hex28	R25	
	76	Hex28	R28	
	87	Hex32	R28	
	65	MF-drifter Hex35	R32	
	86	Hex32	R32	
	96	Hex35	R32	
	67	Hex35	α330	
	70	Round39	α330	
	72	Round39	R35	
	85	Hex35	R35	
	52	MF-drifter Round39	R35	

CODE KEY SHANK RODS AND SHANK ADAPTERS

7XXX – YYZZ - QQ



Main code 7XXX	Sub code YYZZ	3:rd code group QQ
7801 = R22 7802 = R25 7803 = R32 7804 = R38 7807 = R23 7814 = α250 7304 = T38 7305 = T45 7306 = T51 7307 = T35 7328 = ST58 7329 = ST68 7600 = GT60	Shank rods: YY = 61 Hex22 YY = 71 Hex25 ZZ = approximate length in dm	Shank rods: 11= shank H22X108, no packing 21=shank H25X159, no packing 30= Shank H25x108, no packing Shank adapters: 01,02,03,05 = separate flushing 19 = 19mm packing 23 = 23mm packing 30 = 10mm packing 40 = 11mm packing 50 = 12,7mm packing 60/61 = 14mm packing 80 = 16mm packing

CODE KEY DRIFTER BITS

7XXX - YYZZ - (Q) QQ

Main code 7XXX	Sub code YYZZ	3:rd code group QQ
7731 = R22 7732 = R25 7733 = R32 7737 = R23 7738 = R35 7739 = R28 7764 = α250 7767 = α330	YY = 10 Cross bit Normal YY = 13/14 Cross bit HD YY = 16 Normal bit with 6 gauge buttons YY = 44 Normal bit 5 gauge buttons YY = 52 HD bit 5 gauge buttons YY = 53 Normal bit 6 gauge buttons YY = 54 Normal bit 6 gauge buttons ZZ = Bit diameter in mm	(Q) = S spherical buttons (Q) = R ballistic buttons (Q) = C conical buttons QQ = 11 CC-grade 411 (inserts) QQ = 42 CC-grade 442 (inserts) QQ = 48 CC-grade XT48 (buttons) QQ = 55 CC-grade DP55 (buttons) QQ = 65 CC-grade DP65 (buttons)

CODE KEY BIG THREADED BITS

7XXX - YYZZ - (Q) QQ

Main code 7XXX	Sub code YYZZ	3:rd code group QQ
7734 = R38 7514 = T38 7515 = T45 7516 = T51 7517 = T35 7620 = GT60	YY = 16 HD bit 6 gauge buttons YY = 18 HD bit 8 gauge buttons YY = 19 HD bit 9 gauge buttons YY = 26 Button bit Normal YY = 38 Button bit HD YY = 40 HD X-bit YY = 46 HD retrac bit 6 gauge buttons YY = 48 HD retrac bit 8 gauge buttons YY = 49 HD retrac bit 9 gauge buttons YY = 78 Retrac bit with buttons ZZ = Bit diameter in mm	(Q) = S spherical buttons (Q) = R ballistic buttons QQ = 11 CC-grade 411 (inserts) QQ = 42 CC-grade 442 (inserts) QQ = 48 CC-grade XT48 (buttons) QQ = 55 CC-grade DP55 (buttons) QQ = 65 CC-grade DP65 (buttons)

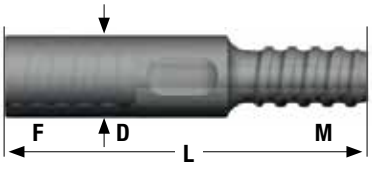
CODE KEY COUPLINGS

7XXX – YYZZ

Main code 7XXX	Sub code YYZZ
7991 = R22 7992 = R25 7993 = R32 7994 = R38 7314 = T38 7315 = T45 7316 = T51 7317 = T35	YY = 04 R28 adapter thread YY = 20 Tough hardened, same thread both ends YY = 24 R25 adapter thread YY = 33 Tough hardened, same thread both ends YY = 34/35 R32 adapter thread YY = 36 Carburized, same thread both ends YY = 44 R38 adapter thread YY = 52 T38 Adapter thread YY = 62 T45 adapter thread ZZ = Outer diameter in mm

CODE KEY BIT ADAPTERS

7XXX – YY01



Main code 7XXX	Sub code YYZZ
7832 = R25 internal thread 7833 = R32 internal thread 7834 = R38 internal thread 7837 = R23 internal thread 7839 = R28 internal thread 7334 = T38 internal thread 7335 = T45 internal thread 7336 = T51 internal thread 7337 = T35 internal thread	YY = 33 R32 external thread YY = 43 R38 external thread YY = 44 T38 external thread YY = 54 T45 external thread YY = 64 T51 external thread

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7922-6120-11	7,0	20
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