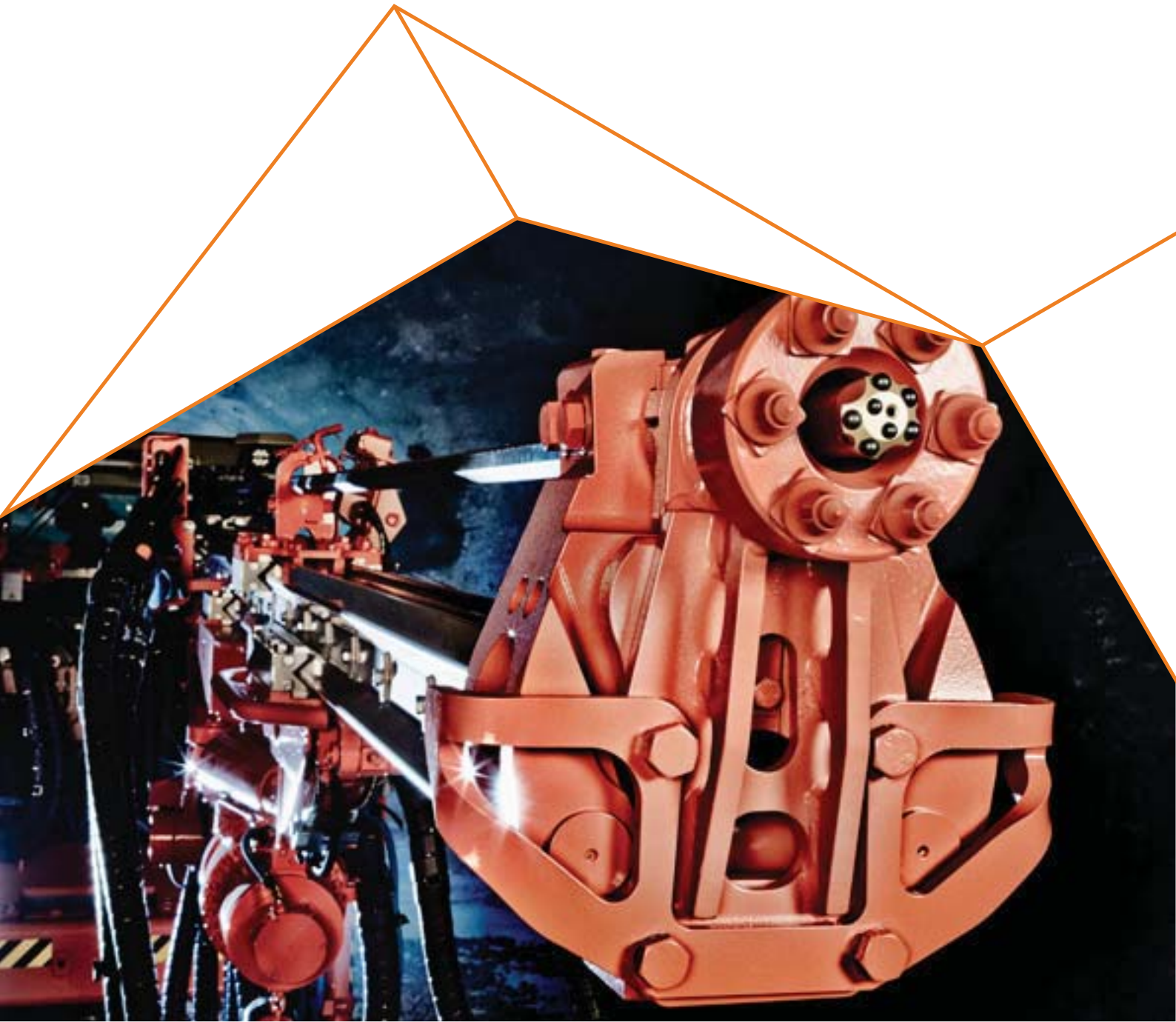
# TOP HAMMER TOOLS

## TOP HAMMER PRODUCT CATALOGUE

SANDVIK

# SANDVIK TOP HAMMER ROCK DRILLING TOOLS



# PUTTING YOUR SAFETY FIRST

The mining industry continues to demand even higher levels of safety and productivity. In order to meet these requirements, we work continuously to develop even safer products, and to produce comprehensive manuals on the safe and effective use of our products.

### IT'S ALL ABOUT EVERYONE'S HEALTH

Helping you to ensure a safer workplace and healthier workforce is of the utmost importance to us. The well-being of any person coming into contact with our equipment is paramount. Therefore, we strive to identify and assess potential risk factors that could threaten the health of you and your employees.

All of the products in this catalogue are designed to meet safety requirements.

### BE AWARE OF ALL SAFETY PROCEDURES

We ask that you start by obeying all instructions given. Never work under an unsupported roof or close to potential pinch point locations. Beware of the potential hazards of a loose roof and ribs, and scale down roof and ribs prior to bolting. It is important to bolt early in the mining process – as soon as is safely and practically possible.

Safe work procedures should incorporate inspection before the machine operates, and also through regular monitoring based upon mining conditions, safety and hazard management systems. Workers should be provided with safety information, instruction and training on transportation, installation, operational care and disposal of drilling tools.

### DRESS RIGHT FROM HEAD TO TOE

You must wear appropriate personal protective equipment (PPE) at all times. This is what we strongly recommend, to help avoid injury:

- Safety helmet
- Hearing protection
- Safety glasses
- Protective high visibility clothing
- Respiratory protection
- Safety boots
- Any site-specific PPE as required

### MAKE A RISK ANALYSIS BEFORE YOU START

Pay attention to safety when planning all of your work. Before you start, always take your time to go through all operations. Identify any potential risks and take appropriate measures to avoid them. If necessary, seek expert advice on how to help minimize risks. Finally, make sure that you have the right resources to perform all tasks in the safest manner possible.

### "TAKE FIVE" TO IDENTIFY HAZARDS

A great safety tool to use before you start working is our app: "Sandvik Mining Take Five". The app consists of a simple, step-by-step checklist with five questions that you should ask yourself to identify potential hazards. The app is free to download for smartphones and tablets, both on the App Store and Google Play.


# HOW TO WORK WITH SAFETY IN MIND

### LIFTING PROCEDURES

Use the correct safe lifting practices while working with heavy items. Consider your body position, the awkwardness of the item and its weight. Are two people required for the job, or 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 can produce dust and fumes containing dangerous substances that can be inhaled or swallowed, or which can come in contact with the skin or eyes. Do not breathe the 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 115.

### ASSEMBLY OF BITS

- Do not touch any equipment while it is rotating.
- Rod rotation must be stopped before the installation or removal of a drill bit.
- Follow site instructions for the 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 specific 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, while the driller is pushing towards it).

## DISASSEMBLY OF HOT BIT, ROD, COUPLING, SLEEVE, SHANKADAPTER AND INTERGRAL STEEL

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

## DEALING WITH WORN PARTS

Worn parts should be removed and disposed of appropriately. Consider recycling any 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 their original packaging 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.

Sandvik was founded in 1862 by Göran Fredrik Göransson, who was the first in the world to succeed in using the Bessemer method for steel production on an industrial scale.

# TOGETHER WE WILL TAKE YOUR BUSINESS FURTHER

For more than 150 years we have been committed to providing the highest-quality products and solutions to the mining industry. Our spirit and business ethics have remained unchanged, and developments within society and the industry have contributed to our innovative solutions.

"Today, the hallmark of great work is innovation and technology. Being second best is not an option for us."

Today, we continue to conduct business in close cooperation with you and other customers all over the world, with the promise of being a proactive and innovative partner.

We believe that we can make a difference to the successful running of your business. You need to get the best out of your equipment - with no compromise on quality, delivery time or service. With us as partners, we will create solutions that make your operation run as effectively as possible.

One thing is certain: our products and solutions will continue to meet the ever-growing needs of the mining industry, and your business.

# CONTENTS

# AT YOUR SERVICE, AROUND THE WORLD

## THE SANDVIK GROUP

Sandvik was established in 1862: today, it is a global industrial group with advanced products and world-leading positions in selected areas. In 2013, we had about 47,000 employees and sales of just over 87 billion SEK in more than 130 countries. Our operations are based on unique expertise in materials technology, and significant insight into customer processes. This combination has provided us with a world-leading position in three primary areas:

- Tools for metal cutting in cemented carbide and high-speed steel, as well as components in cemented carbide and other hard materials.
- Rock tools and equipment for the mining and construction industries.
- Products in advanced stainless materials, special alloys, metallic and ceramic resistance materials and process systems.

"We are 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 handling of materials."

Our goal is to actively contribute to improving your productivity and, consequently, your profitability. Our products and services provide maximum value to you in terms of performance, quality, speed, safety, flexibility and – not least – total economy. Successful development is a result of our goal-oriented investment in research, development and quality assurance. We invest over 3 billion SEK annually and have more than 2,700 employees working in these areas. Many of them are specialists with advanced educational backgrounds and skills.

Our long-term and consistent strategy is based on the interaction between a number of strength factors. This includes advanced and customer focused research and development activities, highly value-added products, integrated manufacturing, direct sales to customers, effective logistics systems, financial strength and a strong corporate culture. Additionally, the significance of Sandvik as an advanced knowledge company is becoming increasingly apparent. Information technology is concentrated upon areas that enhance customer benefits, improve productivity and strengthen profitability.

## SANDVIK MINING

We are 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 handling of materials. Additionally, we offer a complete assortment of rock drilling tools. In fact, we are the only producer of rock drilling tools with in-house steel and cemented carbide research, development and production facilities.

## OUR ORGANIZATION

Every product is preceded by extensive research and development, and backed with application expertise; a worldwide service network, offering on-site service, training and round-the-clock support. We have a tradition of localization and a conviction that there can be no substitute for direct service and direct contact with you. Our service-oriented, global organization is well developed and contains more than 3,500 service technicians located strategically around the world.

*Our worldwide business activities are conducted via representation in more than 130 countries.*

# WHICH INVENTION CAN SOLVE YOUR NEEDS?

We invest over 3 billion SEK each year in research and development: more than 2,700 of our employees are employed in this area. We have 8,000 active patents.

Through close customer collaboration, we develop products that are genuinely needed. We also study trends to ascertain what customer needs will be in the future. We are continuously working on unique solutions that help our customers to improve their productivity and safety.

"The spirit of innovation and involvement runs through every product."

Our focus and continuous development gives you the latest technical solutions for the most demanding rock conditions, and for the most powerful rock tools. Our products undergo extensive laboratory studies and are mercilessly tested in the field. Finally, they are all evaluated and refined to provide the highest grade of equipment quality - something that characterizes all our products.

A spirit of innovation and high involvement runs through every product. It is preceded by our extensive research and development. This is supported by a worldwide service network offering on-site service, training and round-the-clock support. We have technical service specialists strategically located around the world to provide help quickly – whenever you need it.

# RECYCLING THAT PAYS OFF FOR YOU

**Environmental considerations are crucial in all of our operations, and never more so than when it comes to the recycling of cemented carbide.**

The global shortage of raw material has inspired us to create an extensive scrap-recycling program. We recognize today's increasing environmental concerns, and we are the only mining company that recycles both steel and cemented carbide.

In fact, we have been collecting and recycling both scrap and discarded drilling consumables for conversion back into basic raw materials for almost 10 years. A large number of customers have joined our recycling program during this period. One major reason for this is that we make it easy for them to recycle, by collecting scrap from their own premises.

All of our customer service centres are now set up to receive used cemented carbide-enhanced products. Our recycling plant in Chiplun, India complies with the most stringent environmental standards, and is certified to the ISO 14001 and OHSAS 18001 (ISO 45001) international standard.

WHAT WE OFFER:

- Recycling of cemented carbide for customers worldwide
- Genuine recycling
- Cost recovery and reduced waste disposal for you
- Money received for worn tools can purchase new inserts or finance new tooling projects
- Consumables and tools from all manufacturers are accepted
- A win-win situation for all

Adopting sustainable business practices and handling them in the right way is a foundation that contributes across the entire business value chain.

The whole supply chain will be improved by incorporating recycling into the business process. For instance, our recycling process significantly reduces energy consumption to increase productivity, enhance business opportunities and cause less environmental damage.

# GIVING YOU STRENGTH

The gauge buttons of a drill bit are exposed to axial forces. Our 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 new XT48 cemented carbide displays significantly higher levels of resistance to that type of failure.

### NEW GENERATION OF CEMENTED CARBIDE

We develop our own production processes. This strengthens our technical capabilities to continually create even sharper tools that give you the strength to successfully master the toughest of challenges.

Research, development and production of key materials, such as cemented carbide, is an important part of our business.

An extensive programme of research has resulted in a new generation of carbide grades. These have a significantly stronger carbide matrix, and a perfect grain size configuration: meaning superior toughness and a high wear temperature resistance.

### THE TOUGH GRADE XT48 BIT

Through our new manufacturing techniques, we have created the new XT48 cemented carbide – just one example of our new generations of cemented carbide grades. The XT48 has increased density and a more homogenous structure. Consequently, it has led to the development of larger, stronger, and more stable and efficient tools.

Some characteristics of the XT48 BIT:
- Optimized cutting structure
- Ballistic or super spherical buttons
- Deep flushing grooves, with optimal positioning
- Optimized wing/head design

# OWN, UNIQUE STEEL PRODUCTION

Our rolling mill for hollow drill steel is the most up- to-date in the world. The unique, fully automated mill is specially designed for manufacturing of this steel 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. Finally, a carefully controlled cooling process after rolling guarantees uniform mechanical properties. The core is then removed and the drill steel is ready for shipping.

# DRILL BITS THAT CAN HANDLE ANY SITUATION

The Sandvik GT60 bits are created in our unique engineering and manufacturing facility. As a result of this, we can tailor the characteristics of the bits to match almost any drilling conditions that we might face.

SIX MAIN BENEFITS OF THE GT60:

**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 in rolling hollow bar steel means that we are uniquely 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 and consumes half the energy of DTH drilling.

**4.**
The Ø 60 mm rod cross-section is optimized for the 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 suited to automatic rod handling systems. Male and female (MF) threads minimize energy losses and simplify handling.

**6.**
Large flushing holes provide superior removal of cuttings and improve drilling performance. The exact centering of the hole during manufacture ensures uniform steel walls and consistent product performance.

# LESS HANDLING, MORE WORK

### HIGHER PRODUCTIVITY

Each +Range rod offers more meters drilled. Fewer rod changes ensures more time for drilling and less time spent replacing. The increased equipment utilization results in improved uptime of the drill rig, while reducing the overall cost of your drilling operation per blast hole.

### SUBSTANTIAL COST SAVINGS

An extended service life of 30% or more provides you with a lower cost per meter drilled. Since each drill rod offers more meters of use, fewer rods need to be kept in stock – and since fewer rods need to be handled, the associated cost is also reduced.

### REDUCED ENVIRONMENTAL IMPACT

Each rod's longer service life allows you to drill more per kilo of steel. Carbon footprints decrease from rock drill steel production to shipping and transportation on site, as well as after use. There is also a reduction in the total number of kilos of steel that need to be recycled.

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# +RANGE ON LOCATION

**Customer:** High Point Opencast Mining Service
**Country:** South Africa
**Previous solution:** Sandvik GT60 standard
**New solution:** Sandvik GT60+
**Results:** High Point averages between 30 and 35 percent more service life with the new rods, resulting in a production increase of 10 to 15 percent.
**Quote:** "When we tested the GT60+ rods, we put the new ones on one machine and the old type on another machine. They were drilling next to each other so we could compare apples with apples, and that's how we discovered that with some of the best rods we got 13,800 metres out of the new GT60+ rods. That's more than double the average."

*– Johan Coetzee, managing director of High Point Opencast Mining Service*

**Customer:** Diesel Power Opencast Mining
**Country:** South Africa
**Previous solution:** Sandvik GT60 standard
**New solution:** Sandvik GT60+
**Results:** In two months of testing the new rods, Diesel Power has achieved major fuel savings, among other benefits, improving the contractor's carbon footprint.
**Quote:** "We haven't had breakages, and we have better threads. When we started using the +Range, our meters picked up. On a GT60+ drill rod we achieved as much as 24,907 metres. We drilled on a whole string of drill steel for that month."

*– Erick Walker, senior drill and blast foreman at Diesel Power*

# PROCESSES INVOLVED IN MAKING RODS

## CARBURISATION

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

## INDUCTION SURFACE HARDENING (HF) + THREADS

– Hard, wear-resistant surface
– Improved fatigue strength
– Induction hardening of threads
– Rapidly heated and cooled


## SANDVIK ALPHA FEATURES AN ENTIRELY NEW THREAD DESIGN

The benefits of short threads on hexagonal drill rods include 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 than ones which use 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 improved safety.

"If button failure is a problem in your rock formation, then you are certain to see an increase in bit life with Sandvik rock tools."

# HIGHER PENETRATION RATES, LOWER ENERGY CONSUMPTION

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 ranging from 28 to 152 mm in diameter. The buttons are made from proprietary grades of cemented carbide: Sandvik supplies all of the most useful and effective button shapes (spherical, conical or ballistic) and the required skirt designs (regular or retrac) in order to obtain the best bit for the rock formation in question.

# TWICE AS LONG SERVICE LIFE

The management at an Australian mine welcomed the news of higher productivity and lower costs. Sandvik Alpha drill bits give almost double the service life compared to drill bits used previously, which were notorious for button breakages. In a large-scale test, stoppages were down and productivity up: meanwhile, bit costs were cut by half.

# IMPROVED PERFORMANCE

In tests, 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 at more than 50 % above the mine's average when used on very hard and abrasive rock. The new bits could also be reground 5–7 times, compared to 3–4 as with the old standard.

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

# HOW TO TAKE CARE OF YOUR THREADS

## 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, as left unprotected it will interact with this substance – and act as grinding compound instead of lubrication the next time it is used.

## THREAD WEAR

Drilling with worn threads carries a great risk of equipment downtime. When replacing drill rods, it is often more economical to replace the coupling as well. Mixing new and old threads can make the newer ones 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. Any blockage can normally be removed with the aid of a copper tube and water.

## 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 components made of the same material.

## PREPARATION AND MAINTENANCE

Good drilling practice and correct machine settings are important for the service life of your drilling tools. Management and maintenance also play crucial roles in an efficient and profitable operation.

The height of the cemented carbide diminishes as wear progresses, resulting in it wearing flat.

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 has become fatigued and developed micro-scopic cracks.

# CORRECT ACTIONS KEEP THE PACE AT ALL TIMES

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.

### 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 and then reground after a specific number of holes, or at the end of a shift. Premature grinding is not necessarily uneconomical, since less carbide needs to be ground off. It is better to regrind than experience low productivity due to damage.

Proper grinding adds considerably to the service life of drill bits. Another equally important aspect of proper grinding is that it also enhances the performance of the entire drilling operation, particularly hole straightness.

Grinding should always be done in accordance with safety regulations,: read more about our Health and Safety Information on page 115.

# HIGH PERFORMING RIGS WITH LOW OPERATIONAL COSTS

Our drilling equipment is known for its quality, reliability and high productivity. Every machine we make is designed to give the lowest possible cost per meter drilled and a low life-cycle cost. We offer an extremely wide choice of machines, ranging from robust hydraulically controlled to fully automated units that give extraordinary production rates and low total cost.

## TOP HAMMER DRILLS

Renowned for high penetration rates, reliability, fuel economy and low operating cost, Sandvik top hammer drills are diesel powered, self-contained and equipped with air compressors, dust collection systems and operator's cabins. They are designed for drilling 22 to 152 mm (¾ to 6") blastholes up to 30 meters deep.

Sandvik has invested in expanding the top hammer drilling application, in automation, in environmentally friendly systems and energy efficiency. The innovation brought into the market includes AutoMine Surface Drilling, automated drilling phases, data sharing, 3D navigation, i-controls and user interface and training simulation, to improve competitiveness and profitability.

The DPi range of heavy-duty top hammer rigs drill 89 to 152 mm diamater blastholes. High production rates, hole quality and drilling economy combine for optimal performance. The DPi drills are designed to use 51 to 60 mm drill steel, which provide high bending resistance, enabling the use of maximum kinetic power for drilling straight holes fast without compromising rock tool service life.

The highest performance of the DX range of medium-heavy top hammer drills refers to power, versatility, operator comfort and reliability. The drilling capacity is boosted by the revolving superstructure, which allows the operator turn it 120° giving a drilling coverage of 18 m². The drills are stable even in the roughest terrain. As the cabin turns with the superstructure, the operator has increased visibility.

## MINING JUMBOS

We offer a wide variety of face drills for smallscale mine development up to large-scale tunneling. Leading the way through the toughest conditions, Sandvik jumbos excel in productivity and outstanding reliability. Safety and ergonomics have been key elements in ensuring a comfortable working environment for the operators and service personnel.

Well-designed, modular structures and proven components keep our jumbos running. A combination of efficient rock drills, robust booms and advanced controls meet even the most challenging requirements. Customers heading for superior excavation quality can also choose a higher level of instrumentation.

## ROCK SUPPORT DRILLS

Our rock support drill rigs make underground excavations not only productive workplaces but also safer.

Advanced mechanized bolting cycles ensure reliability and integrity of every single bolt installation. The full bolting cycle can be conducted safely by one operator. Sandvik rock support drill rigs can handle all typical bolt dimensions and any type of commonly used bolts, including cable.

Maximum safety for your operator and productivity are the main guidelines in the development of the product family.

## PRODUCTION DRILLS

Accuracy makes a world of difference in production drilling. Our longhole drill rigs minimize ore loss and dilution by drilling straight and accurate holes, up to 54 meters in length.

We've designed a comprehensive range of products for different mining methods and mining conditions: different boom types, carrier size classes and rock drill with right rock tool selection ensure optimum hole quality for any long-hole drilling application.

Automation capabilities of the production drill rigs variy based on your needs, from manual drilling to fan automation and tele-remote drilling as an option.

## LOW PROFILE DRILLS

Improved safety, productivity and minimized ore dilution are the benefits we also offer you in low reef mining applications. Sandvik 200L series drill rigs have been designed for low profile mining in working sections as low as 1.7 meters, with optimum drilling coverage and performance. They are typically used in tabular ore bodies such as platinum and chrome mines for development, rock support and production drilling.

Mechanized low profile mining has been used for a number of years with great success on various mining sites, clearly increasing safety and productivity in the mines.

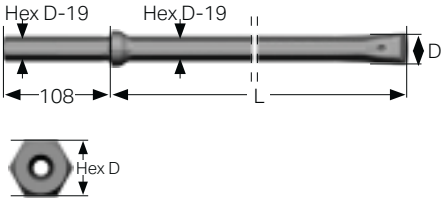
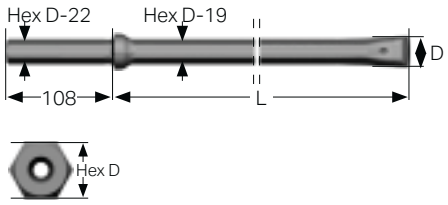
***We have a wide range of rigs available. Please contact your local representation for more information.***

# INCREASE SERVICE LIFE AND BOOST PRODUCTIVITY

Integral drill steels, tapered rods, drill bits and threaded rods are key for high productivity in all applications. Our drill steel has a high fatigue strength and toughness, and offers the high wear resistance that provides an efficient and economic drilling operation. The unique R23 rods and bits for extension drilling provide the strongest thread in sizes ranging from 33 to 45 mm. For underground applications, we have fully carburized rods with superior wear resistance and service life. When working with us, you can expect consistently high quality, and maximum operational dependability when it comes to all small hole-drilling applications.

# HANDHELD AND SMALL HOLE DRILLING

## H19 (3/4") INTEGRAL DRILL STEELS

| | DIMENSIONS | | | | | | PART NO. |
|---|---|---|---|---|---|---|---|
| | Series | L mm | ft | in | D mm | in | |
| **Shank 19×108 mm (3/4"×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 22×108 mm (7/8"×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 |

### BIT DIAMETER NOTES

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

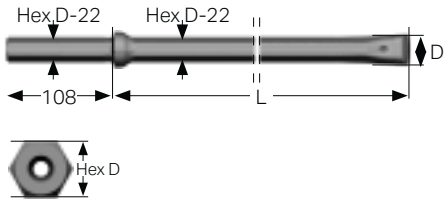
**Cross bits:** Can be a maximum of +1 mm due to manufacturing tolerance

**Button bits:** Some bit designs can be a maximum +3 mm to compensate for fast diameter wear. The minimum diameter for all button bits is +1.5 mm above the given dimensions

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

# HANDHELD AND SMALL HOLE DRILLING

## H22 (7/8") INTEGRAL DRILL STEELS







| | DIMENSIONS | | | | | | PART NO. |
|---|---|---|---|---|---|---|---|
| | Series | L mm | ft | in | D mm | in | |
| **Shank 22×108 mm (7/8"×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 |

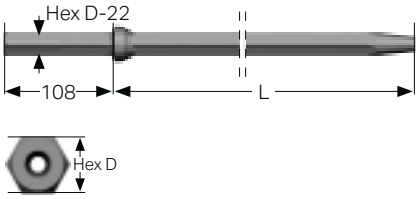
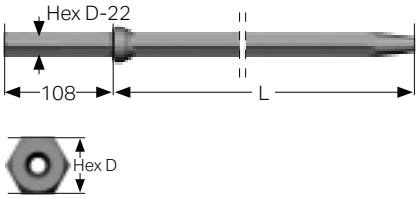
# HANDHELD AND SMALL HOLE DRILLING

## H22 TAPERED TOOLS, 12° TAPER

| BITS | FLUSHING HOLE, MM | | BUTTONS, MM | | ANGLE | DIMENSIONS D | | BIT CLASSI-FICATION | PART NO. |
|---|---|---|---|---|---|---|---|---|---|
| | Front No Size | Gauge No Size | Front No Size | Gauge No Size | | mm | in | | |
| **Button bit** | | | | | | | | | |
|  | 1×5 | 1×5 | 1×7 | 4×7 | 35° | 28 | 1 1/8" | ◑ | 7795-6428-B48 |
| | 1×5 | 1×5 | 1×7 | 4×7 | 35° | 30 | 1 3/16" | ● | 7795-6430-B48 |
| **Button bit** | | | | | | | | | |
|  | 2×4 | 1×4 | 2×7 | 5×7 | 40° | 32 | 1 1/4" | ◑ | 7795-5232-B48 |
| | 2×4 | 1×4 | 2×7 | 5×8 | 40° | 35 | 1 3/8" | ◕ | 7795-5235-B48 |
| | 2×4 | 1×4 | 2×7 | 5×9 | 40° | 38 | 1 1/2" | ◑ | 7795-5238-B48 |
| **Button bit** | | | | | | | | | |
|  | 2×4 | 1×4 | 2×7 | 5×7 | 40° | 33 | 1 9/64" | ◑ | 7770-5233-B48 |
| | 2×4 | 1×4 | 2×7 | 5×8 | 35° | 35 | 1 3/8" | ◕ | 7770-5235-B48 |
| **Button bit** | | | | | | | | | |
|  | 1×4 | 1×6 | 2×7 | 5×7 | 35° | 33 | 1 9/64" | ◑ | 7770-4433-B48 |
| | 1×5 | 1×5 | 2×7 | 5×7 | 35° | 35 | 1 3/8" | ◕ | 7770-4435-B48 |
| **Button bit** | | | | | | | | | |
|  | 2×4 | 1×4 | 6×7 | 2×7 | 40° | 33 | 1 9/64" | ● | 7770-5433-B48 |
| **Cross bit** | | | | | | | | | |
|  | 1×4 | 2×4 | – | – | – | 30 | 1 3/16" | ◕ | 7770-9030-42 |
| | 1×6 | 2×4.5 | – | – | – | 32 | 1 1/4" | ● | 7770-9032-42 |
| | 1×6 | 2×4.5 | – | – | – | 35 | 1 3/8" | ● | 7770-9035-42 |

# HANDHELD AND SMALL HOLE DRILLING

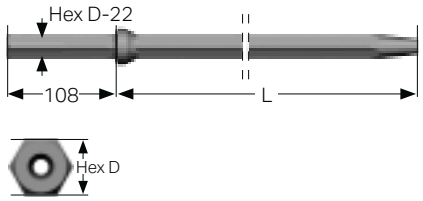
## H22 TAPERED TOOLS, 12° TAPER

| RODS | DIMENSIONS | | | | | PART NO. |
|---|---|---|---|---|---|---|
| | L mm | ft | in | D mm | in | |
| **Tapered rod, shank 22×108, 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 22×108, 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 |

# HANDHELD AND SMALL HOLE DRILLING

## H22 TAPERED TOOLS, 11° TAPER

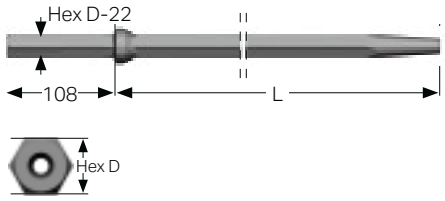
| BITS | FLUSHING HOLE, MM | | BUTTONS, MM | | ANGLE | DIMENSIONS D | | BIT CLASSI-FICATION | PART NO. |
|---|---|---|---|---|---|---|---|---|---|
| | Front No Size | Gauge No Size | Front No Size | Gauge No Size | | mm | in | | |
| **Button bit** | | | | | | | | | |
|   | 1×6 | 1×6 | 2×8 | 3×9 | 40° | 38 | 1 1/2" | ◔ | 7776-1938-B48 |
| | 1×6 | 1×6 | 2×8 | 3×9 | 40° | 40 | 1 37/64" | ◔ | 7776-1940-B48 |
| **Button bit** | | | | | | | | | |
|   | 1×5 | 1×5 | 2×7 | 5×7 | 40° | 32 | 1 1/4" | ◕ | 7776-4432-B48 |
| | 1×5 | 1×5 | 2×7 | 5×8 | 40° | 35 | 1 3/8" | ◕ | 7776-4435-B48 |
| | 1×5 | 1×5 | 2×7 | 5×8 | 35° | 36 | 1 7/16" | ◕ | 7776-4436-B48 |
| | 1×5 | 1×5 | 2×7 | 5×8 | 35° | 38 | 1 1/2" | ◕ | 7776-4438-B48 |
| | 1×6 | 1×6 | 2×8 | 5×9 | 35° | 40 | 1 37/64" | ◕ | 7776-4440-B48 |

| RODS | DIMENSIONS | | | | | PART NO. |
|---|---|---|---|---|---|---|
| | L mm | ft | in | D mm | in | |
| **Tapered rod, shank 22×108, 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 |

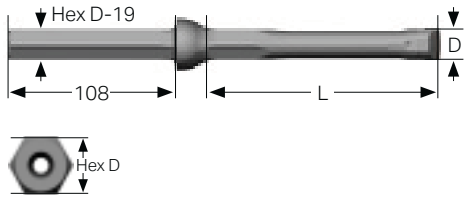
# HANDHELD AND SMALL HOLE DRILLING

## H22 TAPERED TOOLS, 7° TAPER

| BITS | FLUSHING HOLE, MM | | BUTTONS, MM | | ANGLE | DIMENSIONS D | | BIT CLASSI-FICATION | PART NO. |
|---|---|---|---|---|---|---|---|---|---|
| | Front No Size | Gauge No Size | Front No Size | Gauge No Size | | mm | in | | |
| **Button bit** | | | | | | | | | |
|  | 2×5 | 1×5 | 2×7 | 5×7 | 40° | 32 | 1 1/4" | ◕ | 7788-5232-B48 |
| | 2×4 | 1×4 | 2×7 | 5×7 | 40° | 33 | 1 9/64" | ◕ | 7788-5233-B48 |
| | 2×4 | 1×4 | 2×7 | 5×8 | 40° | 35 | 1 3/8" | ◕ | 7788-5235-B48 |
| | 2×4 | 1×4 | 2×7 | 5×8 | 35° | 38 | 1 1/2" | ◕ | 7788-5238-B48 |

| RODS | DIMENSIONS | | | | | PART NO. |
|---|---|---|---|---|---|---|
| | L mm | ft | in | D mm | in | |
| **Tapered rod, shank 22×108, carburized** | | | | | | |
|  | 2400 | 8' | – | 22 | 7/8" | 7888-6124-11 |
| | 3200 | 10' | 6" | 22 | 7/8" | 7888-6132-11 |

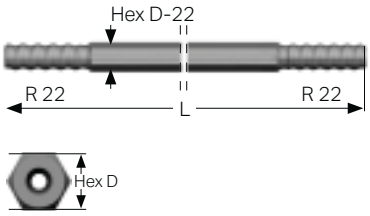
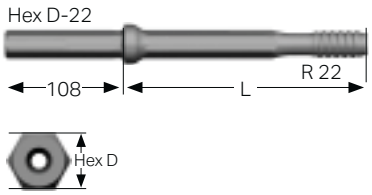
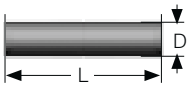
## STONE WORKING TOOLS

| RODS | DIMENSIONS | | | | | 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 |

# HANDHELD AND SMALL HOLE DRILLING

## R22 (7/8") EXTENSION DRILLING TOOLS

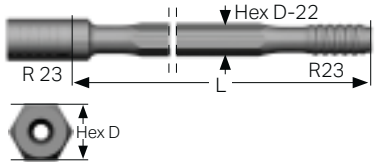
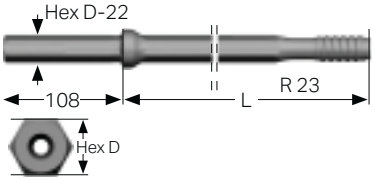
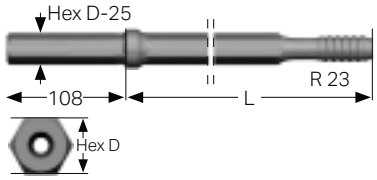
| CROSS BIT | FLUSHING HOLE, MM | | BUTTONS, MM | | ANGLE | DIMENSIONS D | | BIT CLASSI-FICATION | PART NO. |
|---|---|---|---|---|---|---|---|---|---|
| | Front No Size | Gauge No Size | Front No Size | Gauge No Size | | mm | in | | |
| **Cross bit** | | | | | | | | | |
|  | 1 | 4.5 | 2 | 4.5 | – | 38 | 1 1/2" | ● | 7731-1038-42 |

| RODS | DIMENSIONS | | | | | 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" | 7991-3331 |

# HANDHELD AND SMALL HOLE DRILLING

## R23 (29/32") EXTENSION DRILLING TOOLS

| BITS | FLUSHING HOLE, MM | | BUTTONS, MM | | ANGLE | DIMENSIONS D | | BIT CLASSI-FICATION | PART NO. |
|---|---|---|---|---|---|---|---|---|---|
| | Front No Size | Gauge No Size | Front No Size | Gauge No Size | | mm | in | | |
| **Button bit** | | | | | | | | | |
|  | 1×4 | 1×6 | 2×7 | 5×7 | 35° | 33 | 1 5/16" | ◑ | 7737-4433-R48 |
| | 1×6 | 1×6 | 2×7 | 5×8 | 40° | 35 | 1 3/8" | ◑ | 7737-5235-R48 |
| | 1×6 | 1×6 | 2×7 | 5×8 | 35° | 38 | 1 1/2" | ◑ | 7737-5238A-R48 |
| | 1×6 | 1×6 | 2×8 | 5×9 | 35° | 41 | 1 5/8" | ◑ | 7737-5241-R48 |
| **Button bit** | | | | | | | | | |
|  | 3×5 | – | 3×8 | 6×9 | 30° | 45 | 1 3/4" | ● | 7737-5345-R48 |

| RODS | DIMENSIONS | | | | | PART NO. |
|---|---|---|---|---|---|---|
| | L mm | ft | in | 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 |

# HANDHELD AND SMALL HOLE DRILLING

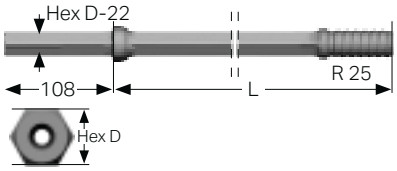
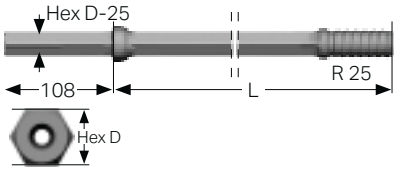
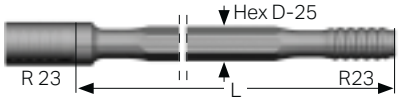
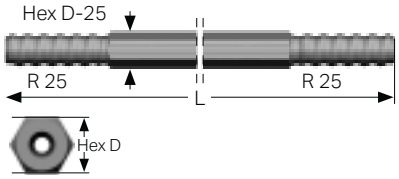
## R25 (1") EXTENSION DRILLING TOOLS

| BITS | FLUSHING HOLE, MM | | BUTTONS, MM | | ANGLE | DIMENSIONS D | | BIT CLASSI-FICATION | PART NO. |
|---|---|---|---|---|---|---|---|---|---|
| | Front No Size | Gauge No Size | Front No Size | Gauge No Size | | mm | in | | |
| **Button bit** | | | | | | | | | |
|  | 1×4 | 1×6 | 2×7 | 5×8 | 35° | 35 | 1 3/8" | ◑ | 7732-4435-S48 ! |
| | 1×5 | 1×6 | 2×7 | 5×8 | 40° | 35 | 1 3/8" | ◑ | 7732-5235-R48 |
| | 1×6 | 1×6 | 2×7 | 5×9 | 35° | 38 | 1 1/2" | ◑ | 7732-5238-R48 |
| | 1×6 | 1×6 | 2×7 | 5×9 | 30° | 38 | 1 1/2" | ◑ | 7732-5238-S48 |
| | 1×6 | 1×6 | 2×8 | 5×9 | 35° | 41 | 1 5/8" | ◑ | 7732-5241-S48 |
| **Button bit** | | | | | | | | | |
|  | 3×4.5 | – | 3×8 | 6×9 | 40° | 45 | 1 3/4" | ● | 7732-5345F-R48 |
| | 3×4 | 1×4 | 3×9 | 6×10 | 30° | 48 | 1 7/8" | ● | 7732-5348A-S48 |

! For one-rod drilling.

# HANDHELD AND SMALL HOLE DRILLING

## R25 (1") EXTENSION DRILLING TOOLS

| RODS | DIMENSIONS | | | | | PART NO. |
|---|---|---|---|---|---|---|
| | L mm | ft | in | D mm | in | |
| **Shank adapter / rod, Hex 22 × 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 |
| **Shank adapter / rod, Hex 25 × R25** | | | | | | |
|  | 2400 | 7' | 10" | 25 | 1" | 7802-7124-30 |
| | 3735 | 12' | 3" | 25 | 1" | 7802-71373-30 |
| **MF-ROD, R25 – Hex 25 –R 25** | | | | | | |
|  | 1220 | 4' | – | 25 | 1" | 7852-3112-20 |
| | 2100 | 6' | 10" | 25 | 1" | 7852-3121-20 |
| | 3100 | 10' | 2" | 25 | 1" | 7852-3131-20 |
| **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" | 7992-3335 |

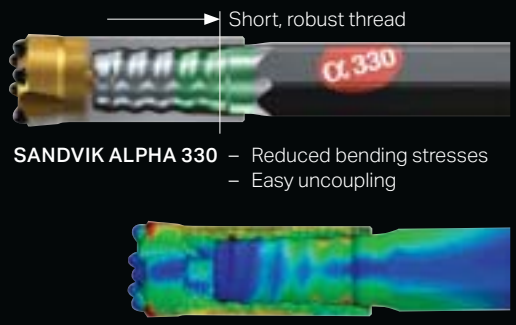
# CONSTANTLY TAKING DRILLING TO A NEW LEVEL

Our engineers are perpetually engaged in upgrading our tool systems. Supported by our in-house manufacturing facilities, the results of their work speak for themselves; you and all other rock-drilling professionals constantly receive new solutions which enable you to work even more profitably.

## PRECISION ENGINEERING FOR STRAIGHTER DRILL HOLES WITH SANDVIK ALPHA

- Short thread design with sturdy guides well inside the bit skirt offers higher precision in collaring – even in complex rock formations and on uneven surfaces.
- Rigid drill string results in straighter holes, permitting optimum drilling patterns and a 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, and subsequently superior resistance to bending stresses. This 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 – by at least +30 % compared to R32 rods.

## NEW DESIGN PROVIDES TROUBLE FREE OPERATION



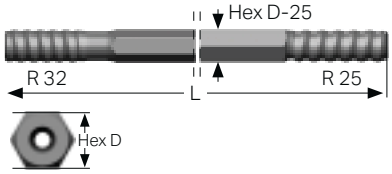
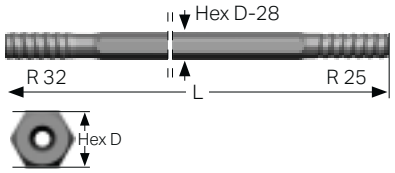

**SANDVIK ALPHA 330**
- Reduced bending stresses
- Easy uncoupling

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

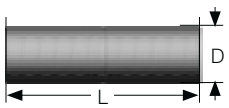
# FACEDRILLING AND BOLTING

## R25 (1") BIT THREAD

| BITS | FLUSHING HOLE, MM | | BUTTONS, MM | | ANGLE | DIMENSIONS D | | BIT CLASSI-FICATION | PART NO. |
|---|---|---|---|---|---|---|---|---|---|
| | Front No Size | Gauge No Size | Front No Size | Gauge No Size | | mm | in | | |
| **Button bit, type 52** | | | | | | | | | |
|  | 1×4.5 | 1×6 | 2×7 | 5×7 | 45° | 33 | 1 5/16" | ◕ | 7732-4433C-S48 |
| | 1×5 | 1×6 | 2×7 | 5×9 | 30° | 35 | 1 3/8" | ● | 7732-4435-S48 |
| | 1×5 | 1×6 | 2×7 | 5×9 | 30° | 37 | 7/16" | ◕ | 7732-4437C-S48 |
| | 1×5 | 1×6 | 2×7 | 5×8 | 40° | 35 | 1 3/8" | ◔ | 7732-5235-R48 |
| | 1×6 | 1×6 | 2×7 | 5×9 | 35° | 38 | 1 1/2" | ◑ | 7732-5238-R48 |
| | 1×6 | 1×6 | 2×7 | 5×9 | 30° | 38 | 1 1/2" | ◕ | 7732-5238-S48 |
| | 1×6 | 1×6 | 2×8 | 5×9 | 35° | 41 | 1 5/8" | ◕ | 7732-5241-S48 |
| **Button bit, type 53** | | | | | | | | | |
|  | 3×4.5 | – | 3×8 | 6×9 | 40° | 45 | 1 3/4" | ◑ | 7732-5345F-R48 |
| | 3×4 | 1×4 | 3×9 | 6×10 | 30° | 48 | 1 7/8" | ◕ | 7732-5348A-S48 |
| **Cross bit** | | | | | | | | | |
|  | 1×5 | 2×5 | | | | 35 | 1 3/8" | ● | 7732-1435-42 |

| RODS | DIMENSIONS | | | | | 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 |
| **Drifter rod, R32 – Hex 28 – R25** | | | | | | |
|  | 2630 | 8' | 7 1/2" | 28 | 1 1/8" | 7853-3026-20 |
| | 3090 | 10' | 1 5/8" | 28 | 1 1/8" | 7853-3031-20 |

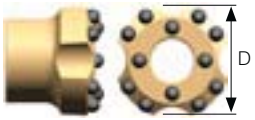
Flushing hole Ø 8.6 mm.

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

# FACEDRILLING AND BOLTING

## R25 (1") REAMING TOOLS

| | THREAD | DIMENSIONS | | | | | 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 |

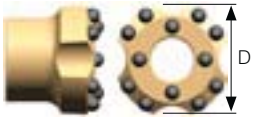
| | BUTTONS, MM | | ANGLE | DIMENSIONS D | | PART NO. |
|---|---|---|---|---|---|---|
| | Front No Size | Gauge No Size | | mm | in | |
| **Reaming tools for cut holes / Reaming bit, 6° taper** | | | | | | |
|  | 4×8 | 8×9 | 25° | 64 | 2 1/2" | 7722-4864-S48 |
| | 4×10 | 8×10 | 30° | 76 | 3" | 7722-4876-S48 |
| | 6×10 | 8×12 | 35° | 89 | 3 1/2" | 7722-4889-S48 |

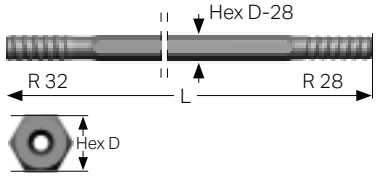
# FACEDRILLING AND BOLTING

## R28 (1 1/8") BIT THREAD

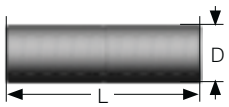
| BITS | FLUSHING HOLE, MM | | BUTTONS, MM | | ANGLE | DIMENSIONS D | | BIT CLASSI-FICATION | PART NO. |
|---|---|---|---|---|---|---|---|---|---|
| | Front No Size | Gauge No Size | Front No Size | Gauge No Size | | mm | in | | |
| **Button bit, type 52** | | | | | | | | | |
|  | 1×5 | 1×6 | 2×7 | 5×9 | 30° | 37 | 7/16" | ◕ | 7739-5237-S48 |
| | 1×6 | 1×6 | 2×7 | 5×9 | 35° | 38 | 1 1/2" | ◑ | 7739-5238-R48 |
| | 1×6 | 1×6 | 2×7 | 5×9 | 30° | 38 | 1 1/2" | ◕ | 7739-5238-S48 |
| | 1×6 | 1×6 | 2×8 | 5×9 | 35° | 41 | 1 5/8" | ◕ | 7739-5241-S48 |
| | 1×6 | 1×6 | 2×8 | 5×10 | 30° | 43 | 1 11/16" | ◕ | 7739-5243-S48 |

| REAMING TOOLS | THREAD | DIMENSIONS | | | | | PART NO. |
|---|---|---|---|---|---|---|---|
| | | L mm | ft | in | D mm | in | |
| **Reaming tools for cut holes / Pilot adapter, 6° taper** | | | | | | | |
|  | R28 | – | – | – | 26 | 1 1/32" | 7822-1526 |

| | BUTTONS, MM | | ANGLE | DIMENSIONS D | | PART NO. |
|---|---|---|---|---|---|---|
| | Front No Size | Gauge No Size | | mm | in | |
| **Reaming tools for cut holes / Reaming bit, 6° taper** | | | | | | |
|  | 4×8 | 8×9 | 25° | 64 | 2 1/2" | 7722-4864-S48 |
| | 4×10 | 8×10 | 30° | 76 | 3" | 7722-4876-S48 |
| | 6×10 | 8×12 | 35° | 89 | 3 1/2" | 7722-4889-S48 |

| RODS | DIMENSIONS | | | | | PART NO. |
|---|---|---|---|---|---|---|
| | L mm | ft | in | D mm | in | |
| **Drifter rod, R32 – Hex 28 – R28** | | | | | | |
|  | 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 |

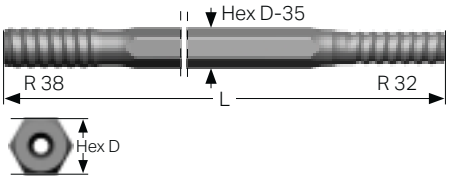
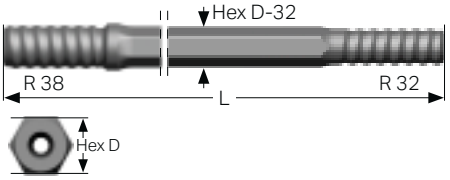
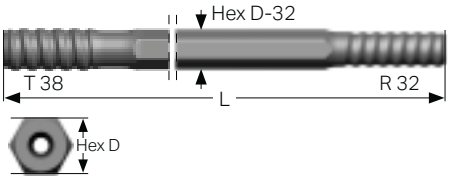
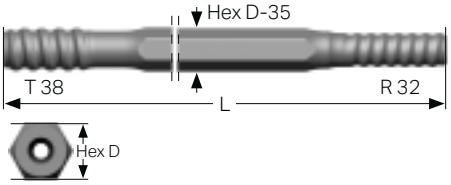
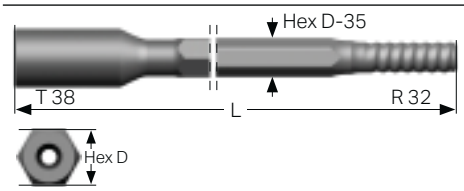
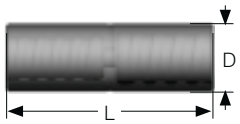
# FACEDRILLING AND BOLTING

## R32 (1 1/4") BIT THREAD

| BITS | FLUSHING HOLE, MM | | BUTTONS, MM | | ANGLE | DIMENSIONS D | | BIT CLASSI-FICATION | PART NO. |
|---|---|---|---|---|---|---|---|---|---|
| | Front No Size | Gauge No Size | Front No Size | Gauge No Size | | mm | in | | |
| **Button bit, type 52** | | | | | | | | | |
|  | 1×6 | 1×6 | 2×8 | 5×9 | 35° | 41 | 1 5/8" | ◕ | 7733-5241-S48 |
| | 1×5 | 2×6 | 2×9 | 5×10 | 35° | 43 | 1 11/16" | ◕ | 7733-5243A-S48 |
| | 1×5 | 2×6 | 2×9 | 5×11 | 30° | 45 | 1 3/4" | ● | 7733-5245A-S48 |
| | 1×6 | 2×7.5 | 2×9 | 5×11 | 35° | 48 | 1 7/8" | ● | 7733-5248A-S48 |
| | 1×6 | 2×7.5 | 2×10 | 5×12 | 35° | 51 | 2" | ● | 7733-5251A-S48 |
| **Button bit, type 53/16** | | | | | | | | | |
|  | 3×4.5 | 1×4.5 | 3×8 | 6×9 | 30° | 43 | 1 11/16" | ◔ | 7733-5343A-R48 |
| | 3×4.5 | 1×5 | 3×8 | 6×10 | 30° | 45 | 1 3/4" | ◑ | 7733-5345A-R48 |
| | 3×4.5 | 1×5 | 3×8 | 6×10 | 25° | 45 | 1 3/4" | ◕ | 7733-5345A-S48 |
| | 3×5 | 1×5 | 3×9 | 6×10 | 30° | 48 | 1 7/8" | ◑ | 7733-5348A-R48 |
| | 3×5 | 1×5 | 3×9 | 6×10 | 30° | 48 | 1 7/8" | ◕ | 7733-5348A-S48 |
|  | 3×6 | 1×6 | 3×9 | 6×10 | 40° | 51 | 2" | ◑ | 7733-1651A-R48 |
| | 3×6 | 1×6 | 3×9 | 6×10 | 35° | 51 | 2" | ◕ | 7733-1651A-S48 |
| | 3×6 | 1×6 | 3×10 | 6×11 | 35° | 57 | 2 1/4" | ◕ | 7733-1657A-S48 |
| | 3×7 | – | 3×11 | 6×12 | 30° | 64 | 2 1/2" | ◕ | 7733-1664-S48 |
| **Button bit, type 54** | | | | | | | | | |
|  | 2×6 | 2×6 | 2×9 | 6×9 | 40° | 43 | 1 11/16" | ◔ | 7733-5443B-R48 |
| | 2×6 | 2×6 | 2×9 | 6×10 | 35° | 45 | 1 3/4" | ◔ | 7733-5445B-R48 |
| **Button bit, type 55** | | | | | | | | | |
|  | 3×5.5 | 1×5.5 | 3×9 | 6×9 | 40° | 45 | 1 3/4" | ○ | 7733-5545A-C60 |
| | 3×5.5 | 1×5.5 | 3×9 | 6×10 | 40° | 48 | 1 7/8" | ○ | 7733-5548A-C60 |
| | 3×6 | 1×6 | 3×9 | 6×10 | 40° | 51 | 2" | ○ | 7733-5551A-C60 |
| **Button bit, type 18** | | | | | | | | | |
|  | 4×7 | – | 5×11 | 8×12 | 35° | 76 | 3" | ◕ | 7733-1876-S48 |
| **Cross bit** | | | | | | | | | |
|  | 1×5 | 4×6 | – | – | – | 45 | 1 3/4" | ● | 7733-1345A-42 |

# FACEDRILLING AND BOLTING

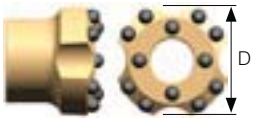
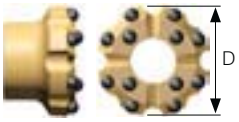
## R32 (1 1/4") BIT THREAD

| RODS | DIMENSIONS | | | | | 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** | | | | | | |
|  | 2475 | 8' | 1 1/2" | 32 | 1 1/4" | 7854-8624-20 |
| | 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** | | | | | | |
|  | 3090 | 10' | 1 5/8" | 32 | 1 1/4" | 7324-8631-20 |
| | 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** | | | | | | |
|  | 2475 | 8' | 1 1/2" | 35 | 1 3/8" | 7324-9624-20 |
| | 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 |

# FACEDRILLING AND BOLTING

## R32 (1 1/4") REAMING TOOLS

| PILOT ADAPTERS 6°, 12° TAPER | THREAD | DIMENSIONS | | | | | PART NO. |
|---|---|---|---|---|---|---|---|
| | | L | | | D | | |
| | | mm | ft | in | 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** | | | | | | |
|  | 4×8 | 8×9 | 25° | 64 | 2 1/2" | 7722-4864-S48 |
| | 4×10 | 8×10 | 30° | 76 | 3" | 7722-4876-S48 |
| | 6×10 | 8×12 | 35° | 89 | 3 1/2" | 7722-4889-S48 |
| **Reaming tools for cut holes / Reaming bit, 12° taper** | | | | | | |
|  | 4×10 | 8×12 | 35° | 89 | 3 1/2" | 7721-4889-S48 |
| | 4×13 | 8×13 | 35° | 102 | 4" | 7721-4802-S48 |
| | 8×13 | 8×13 | 35° | 127 | 5" | 7721-4827-S48 |

| REAMING 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 | |
| **Reaming tools for cut holes / Reaming bit, R32** | | | | | | | | |
|  | 4×6 | – | 3×10 | 12×13 | 35° | 102 | 4" | 7733-5602P-S48 |

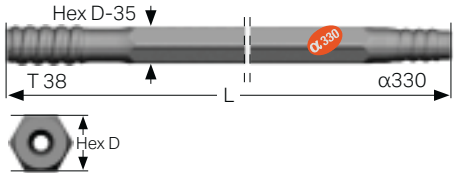
# FACEDRILLING AND BOLTING

## SANDVIK ALPHA. α330 BIT THREAD

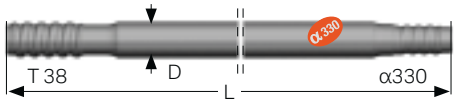
| BITS | FLUSHING HOLE, MM | | BUTTONS, MM | | ANGLE | DIMENSIONS D | | BIT CLASSI-FICATION | PART NO. |
|---|---|---|---|---|---|---|---|---|---|
| | Front No Size | Gauge No Size | Front No Size | Gauge No Size | | mm | in | | |
| **Button bit, type 52** | | | | | | | | | |
|  | 1×5 | 1×7.5 | 2×9 | 5×10 | 35° | 43 | 1 11/16" | ◕ | 7767-5243A-S48 |
| | 1×5 | 1×7.5 | 2×9 | 5×11 | 30° | 45 | 1 3/4" | ● | 7767-5245A-S48 |
| | 1×6 | 2×7.5 | 2×9 | 5×11 | 35° | 48 | 1 7/8" | ● | 7767-5248A-S48 |
| **Button bit, type 53/16** | | | | | | | | | |
|  | 3×4.5 | 1×4.5 | 3×8 | 6×9 | 30° | 43 | 1 11/16" | ◔ | 7767-5343A-R48 |
| | 3×4.5 | 1×5 | 3×8 | 6×10 | 30° | 45 | 1 3/4" | ◑ | 7767-5345A-R48 |
| | 3×4.5 | 1×5 | 3×8 | 6×10 | 25° | 45 | 1 3/4" | ◕ | 7767-5345A-S48 |
| | 3×5 | 1×5 | 3×9 | 6×10 | 30° | 48 | 1 7/8" | ◑ | 7767-5348A-R48 |
| | 3×5 | 1×5 | 3×9 | 6×10 | 30° | 48 | 1 7/8" | ◕ | 7767-5348A-S48 |
|  | 3×6 | 1×6 | 3×9 | 6×10 | 40° | 51 | 2" | ◑ | 7767-1651A-R48 |
| | 3×6 | 1×6 | 3×9 | 6×10 | 35° | 51 | 2" | ◕ | 7767-1651A-S48 |
| | 3×7 | – | 3×11 | 6×12 | 30° | 64 | 2 1/2" | ◕ | 7767-1664-S48 |
| **Button bit, type 54** | | | | | | | | | |
|  | 2×6 | 2×6 | 2×9 | 6×9 | 40° | 43 | 1 11/16" | ◔ | 7767-5443B-R48 |
| | 2×6 | 2×6 | 2×9 | 6×10 | 35° | 45 | 1 3/4" | ◔ | 7767-5445B-R48 |
| **Button bit, type 55** | | | | | | | | | |
|  | 3×5.5 | 1×5.5 | 3×9 | 6×9 | 40° | 45 | 1 3/4" | ○ | 7767-5545A-C60 |
| **Button bit, type 18** | | | | | | | | | |
|  | 4×7 | – | 1×6 | 8×11 | 35° | 76 | 3" | ◕ | 7767-1876-S48 |
| **Button bit, Retrac** | | | | | | | | | |
|  | 3×6 | – | 3×9 | 6×10 | 35° | 51 | 2" | ◕ | 7767-4651A-S48 |
| **Cross bit** | | | | | | | | | |
|  | 1×5 | 4×6 | | | | 45 | 1 3/4" | ● | 7767-1345A-42 |

# FACEDRILLING AND BOLTING

## SANDVIK ALPHA. α330 BIT THREAD

| RODS | DIMENSIONS | | | | | PART NO. |
|---|---|---|---|---|---|---|
| | L mm | ft | in | D mm | in | |
| **Drifter rod, T38 – Hex 35 – α330** | | | | | | |
|  | 2475 | 8' | 1 1/2" | 35 | 1 3/8" | 7324-6724-20 |
| | 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 |

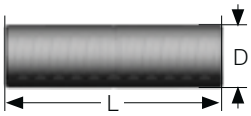
Flushing hole Ø 9.5 mm.

| **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.

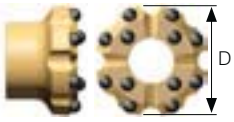
# DRIFTING AND TUNNELING

## SANDVIK ALPHA. α330 BIT THREAD

| COUPLING SLEEVES | DIMENSIONS | | | | | 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 | Front No Size | Gauge No Size | | mm | in | |
| **Reaming tools for cut holes / Reaming bit, α330** | | | | | | | | |
|  | 2×6 | 2×6 | 3×10 | 12×13 | 35° | 102 | 4" | 7767-5602P-S48 |

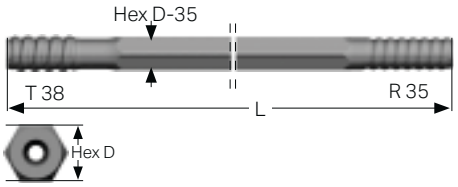
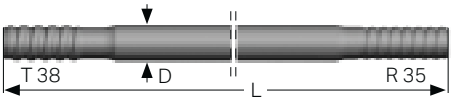
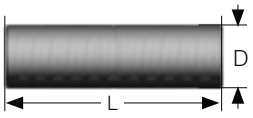
| PILOT ADAPTER 12° TAPER | THREAD | DIMENSIONS | | | | | PART NO. |
|---|---|---|---|---|---|---|---|
| | | L mm | ft | in | D mm | in | |
| **Reaming tools for cut holes / Pilot adapter, 12° taper** | | | | | | | |
|  | α330 | – | – | – | 40 | 1 37/64" | 7821-6740 |

| 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** | | | | | | |
|  | 4×10 | 8×12 | 35° | 89 | 3 1/2" | 7721-4889-S48 |
| | 4×13 | 8×13 | 35° | 102 | 4" | 7721-4802-S48 |
| | 8×13 | 8×13 | 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 CLASSI-FICATION | PART NO. |
|---|---|---|---|---|---|---|---|---|---|
| | Front No Size | Gauge No Size | Front No Size | Gauge No Size | | mm | in | | |
| **Button bit, type 53/16** | | | | | | | | | |
|  | 3×5 | 1×5 | 3×9 | 6×10 | 30° | 48 | 1 7/8" | ◑ | 7738-5348A-R48 |
| | 3×5 | 1×5 | 3×9 | 6×10 | 30° | 48 | 1 7/8" | ◕ | 7738-5348A-S48 |
|  | 3×6 | 1×6 | 3×9 | 6×10 | 40° | 51 | 2" | ◑ | 7738-1651A-R48 |
| | 3×6 | 1×6 | 3×9 | 6×10 | 35° | 51 | 2" | ◕ | 7738-1651A-S48 |
| **Cross bit** | | | | | | | | | |
|  | 1×5 | 2×7.5 | – | – | – | 48 | 1 7/8" | ● | 7738-1448-42 |

| RODS | DIMENSIONS | | | | | 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 |

# FACEDRILLING AND BOLTING

## R35 (1 3/8") BIT THREAD

| REAMING 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 | |
| **Reaming tools for cut holes / Reaming bit, R35** | | | | | | | | |
|  | 2×6 | 2×6 | 3×10 | 12×13 | 35° | 102 | 4" | 7738-5602P-S48 |

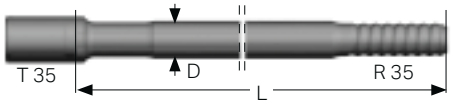
| PILOT ADAPTER 12° TAPER | THREAD | DIMENSIONS | | | | | PART NO. |
|---|---|---|---|---|---|---|---|
| | | L mm | ft | in | D mm | in | |
| **Reaming tools for cut holes / Pilot adapter, 12° taper** | | | | | | | |
|  | R35 | – | – | – | 40 | 1 37/64" | 7821-5440 |

| 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** | | | | | | |
|  | 4×10 | 8×12 | 35° | 89 | 3 1/2" | 7721-4889-S48 |
| | 4×13 | 8×13 | 35° | 102 | 4" | 7721-4802-S48 |
| | 8×13 | 8×13 | 35° | 127 | 5" | 7721-4827-S48 |

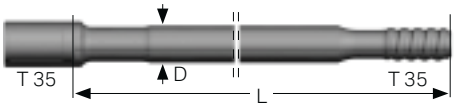
# FACEDRILLING AND BOLTING

## SANDVIK EXTRA. R35 (1 3/8") BIT THREAD

| BITS | FLUSHING HOLE, MM | | BUTTONS, MM | | ANGLE | DIMENSIONS D | | BIT CLASSI-FICATION | PART NO. |
|---|---|---|---|---|---|---|---|---|---|
| | Front No Size | Gauge No Size | Front No Size | Gauge No Size | | mm | in | | |
| **Button bit, Retrac R35** | | | | | | | | | |
|  | 3×6 | 1×5 | 3×9 | 6×10 | 30° | 54 | 2 1/5" | ◑ | 7738-4654A1-R48 |

| RODS | DIMENSIONS | | | | | 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.

# FACEDRILLING AND BOLTING

## 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.

# DRILLING SOLUTIONS THAT MAKE YOU EFFICIENT

We offer several types of specially designed drilling tools. These tools provide solutions that minimize hole deviation and optimize drilling patterns. The results include improved hole-straightness, superior energy transmission and higher drilling efficiency.

Sandvik GT60 enables the 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 more stable rod package. The Sandvik GT60 tools system also offers excellent energy transfer efficiency all the way from rock drill to hole bottom, reducing fuel costs and environmental impact. Increased energy transfer efficiency is key to achieve the best penetration rate possible from every drilling rig.

In addition, 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 IN BENCH DRILLING:

- Lower total operating cost.
- Longer service life of drill steel components
- Less downtime, which means improved productivity.
- Improved safety and better blasting control.
- Less hole deviation and better-balanced fragmentation.
- Reduced consumption of explosives, which account for about half of all total drilling and blasting costs.

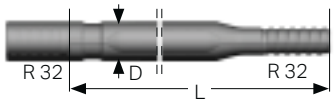
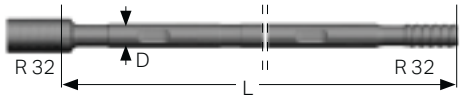
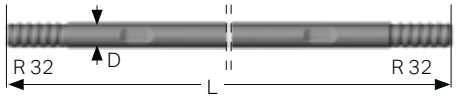
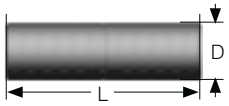
# BENCH DRILLING

## R32 (1 1/4")

| BITS | FLUSHING HOLE, MM | | BUTTONS, MM | | ANGLE | DIMENSIONS D | | BIT CLASSI-FICATION | PART NO. |
|---|---|---|---|---|---|---|---|---|---|
| | Front No Size | Gauge No Size | Front No Size | Gauge No Size | | mm | in | | |
| **Button bit, regular skirt** | | | | | | | | | |
|  | 3×6 | 1×6 | 3×9 | 6×10 | 40° | 51 | 2" | ◕ | 7733-1651A-R48 |
| | 3×6 | 1×6 | 3×9 | 6×10 | 35° | 51 | 2" | ● | 7733-1651A-S48 |
| | 3×6 | 1×6 | 3×10 | 6×11 | 35° | 57 | 2 1/4" | ● | 7733-1657A-S48 |
| | 3×7 | – | 3×11 | 6×12 | 30° | 64 | 2 1/2" | ● | 7733-1664-S48 |
|  | 4×7 | – | 5×11 | 8×12 | 35° | 76 | 3" | ● | 7733-1876-S48 |
|  | 3×6 | 1×6 | 3×9 | 6×10 | 40° | 51 | 2" | ○ | 7733-5551A-C60 |
| | 3×6 | 1×6 | 3×10 | 6×10 | 40° | 57 | 2 1/4" | ○ | 7733-5557A-C60 |
| | 3×8 | 1×8 | 3×10 | 6×11 | 40° | 64 | 2 1/2" | ○ | 7733-5564A-C60 |
| **Button bit, Retrac** | | | | | | | | | |
|  | 3×6 | – | 3×9 | 6×10 | 35° | 51 | 2" | ◕ | 7733-4651-R48 |
| | 3×6 | – | 3×9 | 6×10 | 35° | 51 | 2" | ● | 7733-4651-S48 |
|  | 4×7 | – | 5×9 | 8×10 | 30° | 64 | 3 1/2" | ● | 7733-4864-S48 |

# BENCH DRILLING

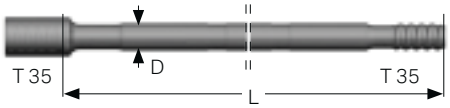
## R32 (1 1/4")

| RODS | DIMENSIONS | | | | | | 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 (1 3/8")

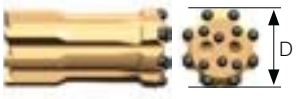
| BITS | FLUSHING HOLE, MM | | BUTTONS, MM | | ANGLE | DIMENSIONS D | | BIT CLASSI-FICATION | PART NO. |
|---|---|---|---|---|---|---|---|---|---|
| | Front No Size | Gauge No Size | Front No Size | Gauge No Size | | mm | in | | |
| **Button bit, regular skirt** | | | | | | | | | |
|  | 3×6 | 1×6 | 3×9 | 6×10 | 35° | 54 | 2 1/8" | ◕ | 7517-1654A-S48 |
| **Button bit, Retrac** | | | | | | | | | |
|  | 3×6 | – | 3×9 | 6×10 | 35° | 54 | 2 1/8" | ◑ | 7517-4654-R48 |
| | 3×7 | – | 3×10 | 6×11 | 35° | 57 | 2 1/4" | ◑ | 7517-4657-R48 |

| RODS | DIMENSIONS | | | | | 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.

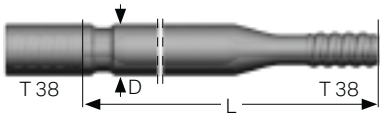
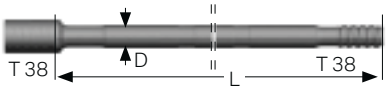
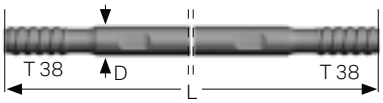
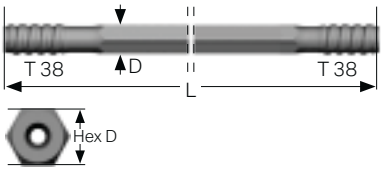
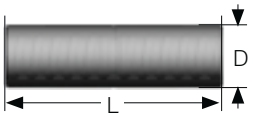
# BENCH DRILLING

T38 (1 1/2")

| BITS | FLUSHING HOLE, MM | | BUTTONS, MM | | ANGLE | DIMENSIONS D | | BIT CLASSI-FICATION | PART NO. |
|---|---|---|---|---|---|---|---|---|---|
| | Front No Size | Gauge No Size | Front No Size | Gauge No Size | | mm | in | | |
| **Button bit, regular skirt** | | | | | | | | | |
|  | 3×7 | 1×7 | 3×9 | 6×11 | 35° | 54 | 2 1/8" | ◕ | 7514-1654A-R48 |
| | 3×8 | – | 3×11 | 6×12 | 35° | 64 | 2 1/2" | ◕ | 7514-1664-R48 |
| | 3×8 | – | 3×11 | 6×12 | 30° | 64 | 2 1/2" | ● | 7514-1664-S48 |
|  | 4×8 | – | 5×10 | 8×11 | 30° | 70 | 2 3/4" | ● | 7514-1870-S48 |
| | 4×8 | – | 5×11 | 8×11 | 40° | 76 | 3" | ◕ | 7514-1876-R48 |
| | 4×8 | – | 5×11 | 8×12 | 35° | 76 | 3" | ● | 7514-1876-S48 |
| | 4×9 | – | 5×12 | 8×12 | 35° | 89 | 3 1/2" | ● | 7514-1889-S48 |
|  | 2×11 | 1×6 | 4×10 | 8×10 | 30° | 64 | 2 1/2" | ◑ | 7514-2664A-S48 |
| | 2×11 | 1×6 | 6×10 | 8×11 | 35° | 76 | 3" | ◑ | 7514-2676A-S48 |
|  | 3×8 | 1×8 | 3×10 | 6×11 | 40° | 64 | 2 1/2" | ○ | 7514-5564A-C60 |
|  | 4×8 | 1×8 | 4×10 | 8×11 | 40° | 76 | 3" | ○ | 7514-5576A-C60 |
| **Button bit, Retrac** | | | | | | | | | |
|  | 3×8 | – | 3×11 | 6×12 | 35° | 64 | 2 1/2" | ◕ | 7514-4664-R48 |
| | 3×8 | – | 3×11 | 6×12 | 30° | 64 | 2 1/2" | ● | 7514-4664-S48 |
|  | 4×8 | – | 5×9 | 8×10 | 35° | 64 | 2 1/2" | ◕ | 7514-4864-R48 |
| | 4×8 | – | 5×10 | 8×11 | 30° | 70 | 2 3/4" | ● | 7514-4870-S48 |
| | 4×8 | – | 5×11 | 8×11 | 35° | 76 | 3" | ◕ | 7514-4876-R48 |
| | 4×8 | – | 5×11 | 8×12 | 35° | 76 | 3" | ● | 7514-4876-S48 |
|  | 3×8 | 1×8 | 4×11 | 6×12 | 40° | 76 | 3" | ○ | 7514-7576A-C60 |
|  | 2×10 | 1×6 | 4×10 | 8×10 | 30° | 64 | 2 1/2" | ● | 7514-7864A-S48 |
| | 2×11 | 1×6 | 6×10 | 8×11 | 35° | 76 | 3" | ◕ | 7514-7876A-S48 |
|  | 3×8 | – | 4×9 | 6×10 | 40° | 64 | 2 1/2" | ◑ | 7514-7964-R48 |
| | 3×8 | – | 4×9 | 6×10 | 35° | 64 | 2 1/2" | ◕ | 7514-7964-S48 |
| | 4×8 | – | 6×10 | 8×11 | 35° | 76 | 3" | ◑ | 7514-7976-R48 |
| | 4×7 | – | 6×10 | 8×11 | 30° | 76 | 3" | ◕ | 7514-7976-S48 |

# BENCH DRILLING

## T38 (1 1/2")

| RODS | DIMENSIONS | | | | | | 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 |
| | | 3050 | 10' | – | 39 | 1 1/2" | 7324-4737-80 |
| | | 3660 | 12' | – | 39 | 1 1/2" | 7324-4737-70 |
| | | 3660 | 12' | – | 39 | 1 1/2" | 7324-4737-80 |
| | | 4265 | 14' | – | 39 | 1 1/2" | 7324-4743-70 |
| | | 4265 | 14' | – | 39 | 1 1/2" | 7324-4743-80 |
| 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 |

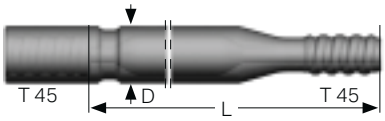
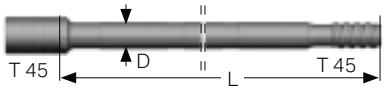
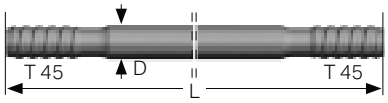
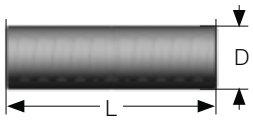
# BENCH DRILLING

T45 (1 3/4")

| BITS | FLUSHING HOLE, MM | | BUTTONS, MM | | ANGLE | DIMENSIONS D | | BIT CLASSI-FICATION | PART NO. |
|---|---|---|---|---|---|---|---|---|---|
| | Front No Size | Gauge No Size | Front No Size | Gauge No Size | | mm | in | | |
| **Button bit, regular skirt** | | | | | | | | | |
|  | 4×8 | – | 5×10 | 8×11 | 30° | 70 | 2 3/4" | ● | 7515-1870-S48 |
| | 4×8 | – | 5×11 | 8×12 | 35° | 76 | 3" | ◕ | 7515-1876-R48 |
| | 4×8 | – | 5×11 | 8×12 | 35° | 76 | 3" | ● | 7515-1876-S48 |
| | 4×9 | – | 5×13 | 8×13 | 40° | 89 | 3 1/2" | ◕ | 7515-1889-R48 |
| | 4×9 | – | 5×13 | 8×13 | 35° | 89 | 3 1/2" | ● | 7515-1889-S48 |
|  | 3×10 | – | 9×11 | 9×13 | 40° | 102 | 4" | ◕ | 7515-1902-R48 |
| | 3×10 | – | 9×11 | 9×13 | 35° | 102 | 4" | ● | 7515-1902-S48 |
|  | 2×12 | 1×7.5 | 6×10 | 8×11 | 35° | 76 | 3" | ◑ | 7515-2676A-S48 |
| | 3×10 | 1×7.5 | 6×10 | 9×11 | 35° | 89 | 3 1/2" | ◑ | 7515-2689A-S48 |
|  | 4×8 | 1×8 | 4×10 | 8×11 | 40° | 76 | 3" | ○ | 7515-5576A-C60 |
| | 3×10 | 1×10 | 2×11, 3×12 | 6×13 | 40° | 89 | 3 1/2" | ○ | 7515-5589A-C60 |
| **Button bit, Retrac** | | | | | | | | | |
|  | 4×8 | – | 5×10 | 8×11 | 35° | 70 | 2 3/4" | ◕ | 7515-4870-R48 |
| | 4×8 | – | 5×11 | 8×12 | 35° | 76 | 3" | ◕ | 7515-4876-R48 |
| | 4×8 | – | 5×11 | 8×12 | 35° | 76 | 3" | ● | 7515-4876-S48 |
| | 4×9 | – | 5×13 | 8×13 | 40° | 89 | 3 1/2" | ◕ | 7515-4889-R48 |
| | 4×9 | – | 5×13 | 8×13 | 35° | 89 | 3 1/2" | ● | 7515-4889-S48 |
|  | 3×10 | – | 9×11 | 9×13 | 40° | 102 | 4" | ◕ | 7515-4902-R48 |
| | 3×10 | – | 9×11 | 9×13 | 35° | 102 | 4" | ● | 7515-4902-S48 |
|  | 3×9 | 1×9 | 1×11, 3×11 | 6×12 | 40° | 76 | 3" | ○ | 7515-7576-C60 |
| | 3×10 | 1×10 | 2×11, 3×12 | 6×13 | 40° | 89 | 3 1/2" | ○ | 7515-7589A-C60 |
|  | 2×11 | 1×6 | 6×10 | 8×11 | 35° | 76 | 3" | ◑ | 7515-7876A-S48 |
| | 3×10 | 1×8 | 6×10 | 9×11 | 35° | 89 | 3 1/2" | ◑ | 7515-7889A-S48 |
|  | 4×9 | – | 3×11, 4×12 | 8×13 | 35° | 102 | 4" | ◕ | 7515-7902-S48 |
| | 4×8 | – | 6×10 | 8×11 | 35° | 76 | 3" | ◑ | 7515-7976-R48 |
| | 4×7 | – | 6×10 | 8×11 | 30° | 76 | 3" | ◕ | 7515-7976-S48 |
| | 4×8 | – | 6×11 | 8×12 | 40° | 89 | 3 1/2" | ◑ | 7515-7989-R48 |
| | 4×8 | – | 6×11 | 8×12 | 35° | 89 | 3 1/2" | ◕ | 7515-7989-S48 |
|  | 4×8 | – | 6×10 | 8×11 | 35° | 76 | 3" | ◑ | 7515-8276-R48 |

# BENCH DRILLING

## T45 (1 3/4")

| RODS | DIMENSIONS | | | | | | 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 1/2" | 7325-7731-70 |
| | | 3050 | 10' | – | 46 | 1 1/2" | 7325-7731-80 |
| | | 3660 | 12' | – | 46 | 1 1/2" | 7325-7737-70 |
| | | 3660 | 12' | – | 46 | 1 1/2" | 7325-7737-80 |
| | | 4265 | 14' | – | 46 | 1 1/2" | 7325-7743-70 |
| | | 4265 | 14' | – | 46 | 1 1/2" | 7325-7743-80 |
| 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 |

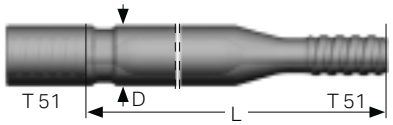
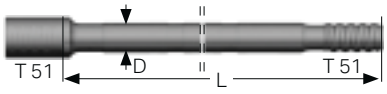
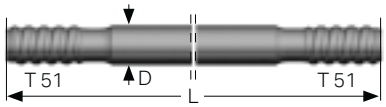
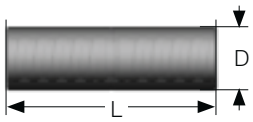
# BENCH DRILLING

T51 (2")

| BITS | FLUSHING HOLE, MM | | BUTTONS, MM | | ANGLE | DIMENSIONS D | | BIT CLASSI-FICATION | PART NO. |
|---|---|---|---|---|---|---|---|---|---|
| | Front No Size | Gauge No Size | Front No Size | Gauge No Size | | mm | in | | |
| **Button bit, regular skirt** | | | | | | | | | |
|  | 4×10 | – | 5×13 | 8×13 | 40° | 89 | 3 1/2" | ◕ | 7516-1889-R48 |
| | 4×10 | – | 5×13 | 8×13 | 35° | 89 | 3 1/2" | ● | 7516-1889-S48 |
|  | 3×13 | – | 9×11 | 9×13 | 40° | 102 | 4" | ◕ | 7516-1902-R48 |
| | 3×13 | – | 9×11 | 9×13 | 35° | 102 | 4" | ● | 7516-1902-S48 |
| | 3×14 | – | 10×12 | 9×14 | 35° | 115 | 4 1/2" | ● | 7516-1915-S48 |
| | 3×14 | – | 10×13 | 9×14 | 35° | 127 | 5" | ● | 7516-1927-S48 |
|  | 3×12 | 1×8 | 6×10 | 9×11 | 35° | 89 | 3 1/2" | ◑ | 7516-2689A-S48 |
| | 3×12 | 1×8 | 6×12 | 9×12 | 35° | 102 | 4" | ◑ | 7516-2602A-S48 |
|  | 3×12 | 1×12 | 2×11, 3×12 | 6×13 | 40° | 89 | 3 1/2" | ○ | 7516-5589A-C60 |
| | 4×11 | 1×11 | 3×11, 4×12 | 8×13 | 40° | 102 | 4" | ○ | 7516-5502A-C60 |
| **Button bit, Retrac** | | | | | | | | | |
|  | 4×10 | – | 5×13 | 8×13 | 40° | 89 | 3 1/2" | ◕ | 7516-4889-R48 |
| | 4×10 | – | 5×13 | 8×13 | 35° | 89 | 3 1/2" | ● | 7516-4889-S48 |
|  | 3×13 | – | 9×11 | 9×13 | 40° | 102 | 4" | ◕ | 7516-4902-R48 |
| | 3×13 | – | 9×11 | 9×13 | 35° | 102 | 4" | ● | 7516-4902-S48 |
| | 3×14 | – | 10×12 | 9×14 | 40° | 115 | 4 1/2" | ◕ | 7516-4915-R48 |
| | 3×14 | – | 10×12 | 9×14 | 35° | 115 | 4 1/2" | ● | 7516-4915-S48 |
| | 3×14 | – | 10×13 | 9×14 | 35° | 127 | 5" | ● | 7516-4927-S48 |
|  | 3×12 | 1×12 | 2×11, 3×12 | 6×13 | 40° | 89 | 3 1/2" | ○ | 7516-7589A-C60 |
| | 3×11 | 1×11 | 3×11, 4×12 | 8×13 | 40° | 102 | 4" | ○ | 7516-7502A-C60 |
|  | 3×12 | 1×8 | 6×10 | 9×11 | 35° | 89 | 3 1/2" | ◑ | 7516-7889A-S48 |
|  | 4×10 | – | 6×11 | 9×13 | 40° | 102 | 3 1/2" | ◑ | 7516-7989-R48 |
| | 4×10 | – | 6×11 | 9×13 | 35° | 102 | 3 1/2" | ◕ | 7516-7989-S48 |
| | 4×11 | – | 7×12 | 9×14 | 40° | 115 | 4" | ◕ | 7516-7902-S48 |
| | 4×11 | – | 3×11, 4×12 | 8×13 | 40° | 102 | 4" | ◑ | 7516-7902-R48 |
| | 4×10 | – | 3×12, 4×13 | 8×14 | 35° | 115 | 4 1/2" | ◕ | 7516-7915-S48 |

# BENCH DRILLING

## T51 (2")

| RODS | DIMENSIONS | | | | | | 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 |
| | | 3660 | 12' | – | 52 | 2" | 7326-5537-80 |
| | | 4265 | 14' | – | 52 | 2" | 7326-5543-70 |
| | | 4265 | 14' | – | 52 | 2" | 7326-5543-80 |
| | | 5485 | 17' | 11 | 52 | 2" | 7326-5555-80 |
| | | 6095 | 20' | – | 52 | 2" | 7326-5561-70 |
| Flushing hole Ø 21,5 mm. Female end Ø 71 mm. | | | | | | | |
| **Extension rod, T51 – round 52 – T51** | | | | | | | |
|  | | 3660 | 12' | – | 52 | 2" | 7326-5337C-30 |
| | | 4265 | 14' | – | 52 | 2" | 7326-5343C-30 |
| | | 6095 | 20' | – | 52 | 2" | 7326-5361C-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 |

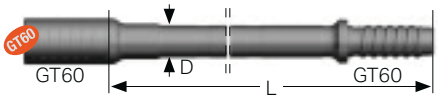
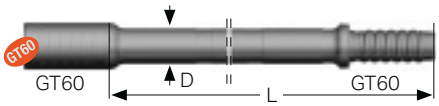
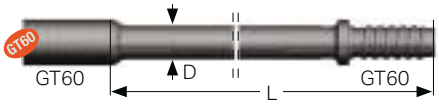
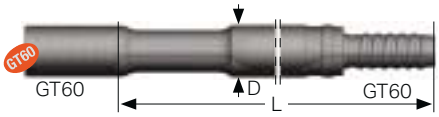
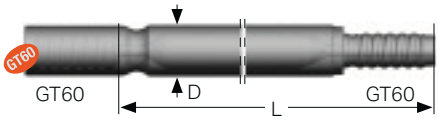
# BENCH DRILLING

## SANDVIK GT60

| BITS | FLUSHING HOLE, MM | | BUTTONS, MM | | ANGLE | DIMENSIONS D | | BIT CLASSI-FICATION | PART NO. |
|---|---|---|---|---|---|---|---|---|---|
| | Front No Size | Gauge No Size | Front No Size | Gauge No Size | | mm | in | | |
| **Button bit, regular skirt** | | | | | | | | | |
|  | 4×11 | – | 6×12 | 8×14 | 35° | 92 | 3 5/8" | ● | 7620-1892-S48 |
| | 4×11 | – | 6×12 | 8×14 | 35° | 96 | 3 3/4" | ● | 7620-1896-S48 |
|  | 3×14 | – | 9×11 | 9×13 | 35° | 102 | 4" | ● | 7620-1902-S48 |
| | 3×14 | – | 10×12 | 9×14 | 40° | 115 | 4 1/2" | ◕ | 7620-1915-R48 |
| | 3×14 | – | 10×12 | 9×14 | 35° | 115 | 4 1/2" | ● | 7620-1915-S48 |
| | 3×14 | – | 10×14 | 9×16 | 35° | 127 | 5" | ● | 7620-1927-S48 |
| | 3×14 | – | 10×14 | 9×16 | 35° | 140 | 5 1/2" | ● | 7620-1940-S48 |
| | 3×14 | – | 12×14 | 9×16 | 35° | 152 | 6" | ● | 7620-1952-S48 |
| **Button bit, Retrac** | | | | | | | | | |
|  | 3×14 | – | 9×11 | 9×13 | 35° | 102 | 4" | ● | 7620-4902-S48 |
| | 3×14 | – | 10×12 | 9×14 | 40° | 115 | 4 1/2" | ◕ | 7620-4915-R48 |
| | 3×14 | – | 10×12 | 9×14 | 35° | 115 | 4 1/2" | ● | 7620-4915-S48 |
| | 3×14 | – | 10×14 | 9×16 | 35° | 127 | 5" | ● | 7620-4927-S48 |
| | 3×14 | – | 10×14 | 9×16 | 35° | 140 | 5 1/2" | ● | 7620-4940-S48 |
| | 3×14 | – | 12×14 | 9×16 | 35° | 152 | 6" | ● | 7620-4952-S48 |
|  | 4×11 | – | 3×11, 4×12 | 8×13 | 35° | 102 | 4" | ◕ | 7620-7902-S48 |
| | 4×11 | – | 3×12, 4×14 | 8×14 | 35° | 115 | 4 1/2" | ◕ | 7620-7915-S48 |
| | 4×11 | – | 3×13, 4×14 | 8×14 | 35° | 127 | 5" | ◕ | 7620-7927-S48 |
| | 4×12 | – | 4×14, 4×16 | 8×16 | 35° | 140 | 5 1/2" | ◕ | 7620-7940-S48 |
| | 4×12 | – | 5×14, 4×16 | 8×16 | 35° | 152 | 6" | ◕ | 7620-7952-S48 |
|  | 2×14 | – | 9×12 | 9×12 | 40° | 92 | 3 5/8" | ◑ | 7620-8792-R48 |
| | 2×14 | – | 9×12 | 9×12 | 35° | 92 | 3 5/8" | ◕ | 7620-8792-S48 |
| | 2×14 | – | 9×12 | 9×12 | 40° | 96 | 3 3/4" | ◑ | 7620-8796-R48 |
| | 2×14 | – | 9×12 | 9×12 | 35° | 96 | 3 3/4" | ◕ | 7620-8796-S48 |
| | 2×14 | – | 10×12 | 9×13 | 40° | 102 | 4" | ◑ | 7620-8702-R48 |

# BENCH DRILLING

## SANDVIK GT60

| RODS | DIMENSIONS | | | | | 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" | 7610-1137-80 |
| | 4265 | 14' | – | 60 | 2 3/8" | 7610-1143-80 |
| | 5485 | 18' | – | 60 | 2 3/8" | 7610-1155-80 |
| | 6095 | 20' | – | 60 | 2 3/8" | 7610-1161-80 |
| Female end Ø 85 mm. Flushing hole Ø 22.5 mm. | | | | | | |
|  | 4265 | 14' | – | 64 | 2 1/2" | 7610-1243-80 |
| 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" | 7610-1443-80 |
| Female end Ø 82 mm. Flushing hole Ø 22.5 mm. | | | | | | |
| **Pilot tube – GT60** | | | | | | |
|  | 1600 | 5' | 3' | 87 | 3" | 7640-8716-80 |
| | 4265 | 14' | – | 87 | 3 1/2" | 7640-8743-80 |
| | 5335 | 17' | 6' | 76 | 3" | 7640-7653-80 |
| Female end Ø 85 mm (82 mm on 76 mm tubes). | | | | | | |
| **Drill tube** | | | | | | |
|  | 4265 | 14' | – | 87 | 3 1/2" | 7660-8743-80 |
| Always use with tube shank adapter 7600-6030-01 (HL1500, 1560) or 7600-6031-01 (HL1000, 1010). | | | | | | |

# THE POWER TO HANDLE ALL YOUR CHALLENGES

Production drilling is at the very heart of the mine. It is therefore critical that you choose products which can supply high levels of quality and reliability. Developments in underground mining are leading towards large-scale production with fewer sublevels, longer holes and more selective mining.

This naturally makes drilling accuracy more important than ever. Many factors can influence the straightness of the drill hole: rock and ore properties, the drilling method, the power and set-up of the drill rig, and the correct choice of drilling tools. In this context, a Sandvik MF rod string is a tolerant and forgiving tool system. In addition, it also delivers impressive hole straightness.

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. This is why all of our rod strings are given specific material characteristics in order to maximize wear, fatigue and corrosion resistance. Ultimately, this boosts your drilling performance by making operations simple and productivity secure at all times. In long-hole production drilling, the main advantage of our tube drilling system is the high rate of penetration: the straightness and quality of the drill-holes and the low total production cost.

Our hole diameters range between 76 and 115 mm. A correctly assembled tube string in a stable rig permits the accurate drilling of holes up to 60 meters. This is beneficial for your business. Hole deviation adversely effects profitability in the form of poor fragmentation, low ore recovery and ore dilution. Using our tools has been proven to reduce deviation by up to 40%.

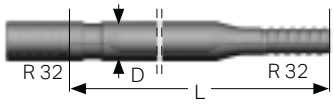
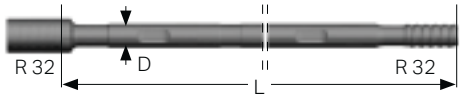
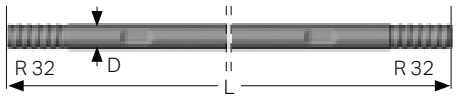
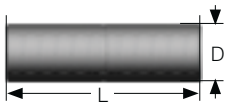
# LONG HOLE DRILLING UNDERGROUND

R32 (1 1/4")

| BITS | FLUSHING HOLE, MM | | BUTTONS, MM | | ANGLE | DIMENSIONS D | | BIT CLASSI-FICATION | PART NO. |
|---|---|---|---|---|---|---|---|---|---|
| | Front No Size | Gauge No Size | Front No Size | Gauge No Size | | mm | in | | |
| **Button bit, regular skirt** | | | | | | | | | |
|  | 3×6 | 1×6 | 3×9 | 6×10 | 40° | 51 | 2" | ◕ | 7733-1651A-R48 |
| | 3×6 | 1×6 | 3×9 | 6×10 | 35° | 51 | 2" | ● | 7733-1651A-S48 |
| | 3×6 | 1×6 | 3×10 | 6×11 | 35° | 57 | 2 1/4" | ● | 7733-1657A-S48 |
| | 3×7 | – | 3×11 | 6×12 | 30° | 64 | 2 1/2" | ● | 7733-1664-S48 |
|  | 4×7 | – | 5×11 | 8×12 | 35° | 76 | 3" | ● | 7733-1876-S48 |
|  | 3×6 | 1×6 | 3×9 | 6×10 | 40° | 51 | 2" | ○ | 7733-5551A-C60 |
| | 3×6 | 1×6 | 3×10 | 6×10 | 40° | 57 | 2 1/4" | ○ | 7733-5557A-C60 |
| | 3×8 | 1×8 | 3×10 | 6×11 | 40° | 64 | 2 1/2" | ○ | 7733-5564A-C60 |
| **Button bit, Retrac** | | | | | | | | | |
|  | 3×6 | – | 3×9 | 6×10 | 35° | 51 | 2" | ◕ | 7733-4651-R48 |
| | 3×6 | – | 3×9 | 6×10 | 35° | 51 | 2" | ● | 7733-4651-S48 |
|  | 4×7 | – | 5×9 | 8×10 | 30° | 64 | 3 1/2" | ● | 7733-4864-S48 |

# LONG HOLE DRILLING UNDERGROUND

## R32 (1 1/4")

| RODS | DIMENSIONS | | | | | | 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** | | | | | | | |
|  | | 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 |
| Flushing hole Ø 11.7 mm. Wrench flat 25.4 mm. Female end Ø 45 mm. | | | | | | | |
| **Extension rod, R32 – round 32 – R32** | | | | | | | |
|  | | 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 |
| Flushing hole Ø 11.7 mm. Wrench flat 25.4 mm. | | | | | | | |
| **Coupling sleeve R32** | | | | | | | |
|  | | 150 | – | 5 29/32" | 44 | 1 47/64" | 7993-3644 |

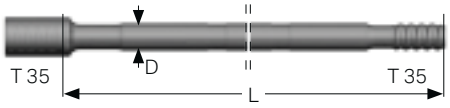
| PILOT ADAPTER | THREAD | DIMENSIONS | | | | | PART NO. |
|---|---|---|---|---|---|---|---|
| | | L mm | ft | in | D mm | in | |
| **Pilot adapter for reaming of 51 mm (2") pilot holes** | | | | | | | |
|  | R32 | – | – | – | 47 | 1 7/8" | 7823-3647 |

| REAMING BIT | BUTTONS, MM | | ANGLE | DIMENSIONS D | | BIT CLASSI-FICATION | PART NO. |
|---|---|---|---|---|---|---|---|
| | Front No Size | Gauge No Size | | mm | in | | |
| **Reaming bit** | | | | | | | |
|  | 4×12 | 8×12 | 35° | 102 | 4" | – | 7723-4802-S48 |
| | 4×12 | 8×12 | 35° | 127 | 5" | – | 7723-4827-S48 |

# LONG HOLE DRILLING UNDERGROUND

## T35 (1 3/8")

| BITS | FLUSHING HOLE, MM | | BUTTONS, MM | | ANGLE | DIMENSIONS D | | BIT CLASSI-FICATION | PART NO. |
|---|---|---|---|---|---|---|---|---|---|
| | Front No Size | Gauge No Size | Front No Size | Gauge No Size | | mm | in | | |
| **Button bit, regular skirt** | | | | | | | | | |
|  | 3×6 | 1×6 | 3×9 | 6×10 | 35° | 54 | 2 1/8" | ◕ | 7517-1654A-S48 |
| **Button bit, Retrac** | | | | | | | | | |
|  | 3×6 | – | 3×9 | 6×10 | 35° | 54 | 2 1/8" | ◑ | 7517-4654-R48 |
| | 3×7 | – | 3×10 | 6×11 | 35° | 57 | 2 1/4" | ◑ | 7517-4657-R48 |

| RODS | DIMENSIONS | | | | | PART NO. |
|---|---|---|---|---|---|---|
| | L mm | ft | in | D mm | in | |
| **MF-rod, T35 - Round 39 - T35** | | | | | | |
|  | 1830 | 6' | - | 39 | 1 1/2" | 7327-4718-20 |

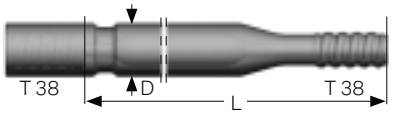
# LONG HOLE DRILLING UNDERGROUND

T38 (1 1/2")

| BITS | FLUSHING HOLE, MM | | BUTTONS, MM | | ANGLE | DIMENSIONS D | | BIT CLASSI-FICATION | PART NO. |
|---|---|---|---|---|---|---|---|---|---|
| | Front No Size | Gauge No Size | Front No Size | Gauge No Size | | mm | in | | |
| **Button bit, regular skirt** | | | | | | | | | |
|  | 3×7 | 1×7 | 3×9 | 6×11 | 35° | 54 | 2 1/8" | ◕ | 7514-1654A-R48 |
| | 3×8 | – | 3×11 | 6×12 | 35° | 64 | 2 1/2" | ◕ | 7514-1664-R48 |
| | 3×8 | – | 3×11 | 6×12 | 30° | 64 | 2 1/2" | ● | 7514-1664-S48 |
|  | 4×8 | – | 5×10 | 8×11 | 30° | 70 | 2 3/4" | ● | 7514-1870-S48 |
| | 4×8 | – | 5×11 | 8×11 | 40° | 76 | 3" | ◕ | 7514-1876-R48 |
| | 4×8 | – | 5×11 | 8×12 | 35° | 76 | 3" | ● | 7514-1876-S48 |
| | 4×9 | – | 5×12 | 8×12 | 35° | 89 | 3 1/2" | ● | 7514-1889-S48 |
|  | 2×11 | 1×6 | 4×10 | 8×10 | 30° | 64 | 2 1/2" | ◑ | 7514-2664A-S48 |
| | 2×11 | 1×6 | 6×10 | 8×11 | 35° | 76 | 3" | ◑ | 7514-2676A-S48 |
|  | 3×8 | 1×8 | 3×10 | 6×11 | 40° | 64 | 2 1/2" | ○ | 7514-5564A-C60 |
| | 4×8 | 1×8 | 4×11 | 6×12 | 40° | 76 | 3" | ○ | 7514-5576A-C60 |
| **Button bit, Retrac** | | | | | | | | | |
|  | 3×8 | – | 3×11 | 6×12 | 35° | 64 | 2 1/2" | ◕ | 7514-4664-R48 |
| | 3×8 | – | 3×11 | 6×12 | 30° | 64 | 2 1/2" | ● | 7514-4664-S48 |
|  | 4×8 | – | 5×9 | 8×10 | 35° | 64 | 2 1/2" | ◕ | 7514-4864-R48 |
| | 4×8 | – | 5×10 | 8×11 | 30° | 70 | 2 3/4" | ● | 7514-4870-S48 |
| | 4×8 | – | 5×11 | 8×11 | 35° | 76 | 3" | ◕ | 7514-4876-R48 |
| | 4×8 | – | 5×11 | 8×12 | 35° | 76 | 3" | ● | 7514-4876-S48 |
| | 3×8 | 1×8 | 4×11 | 6×12 | 40° | 76 | 3" | ○ | 7514-7576A-C60 |
|  | 2×10 | 1×6 | 4×10 | 8×10 | 30° | 64 | 2 1/2" | ● | 7514-7864A-S48 |
| | 2×11 | 1×6 | 6×10 | 8×11 | 35° | 76 | 3" | ◕ | 7514-7876A-S48 |
| | 3×8 | – | 4×9 | 6×10 | 40° | 64 | 2 1/2" | ◑ | 7514-7964-R48 |
| | 3×8 | – | 4×9 | 6×10 | 35° | 64 | 2 1/2" | ◕ | 7514-7964-S48 |
| | 4×8 | – | 6×10 | 8×11 | 35° | 76 | 3" | ◑ | 7514-7976-R48 |
| | 4×7 | – | 6×10 | 8×11 | 30° | 76 | 3" | ◕ | 7514-7976-S48 |
| **Cross bit** | | | | | | | | | |
|  | 1×7.5 | 2×7.5 | – | – | – | 64 | 2 1/2" | – | 7514-1464-11 |

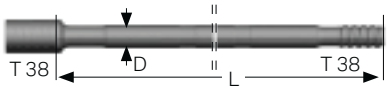
# LONG HOLE DRILLING UNDERGROUND

## T38 (1 1/2")

| RODS | DIMENSIONS | | | | | | 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**

| | | | | | | |
|---|---|---|---|---|---|---|
|  | 915 | 3' | – | 39 | 1 1/2" | 7324-4709C-20 |
| | 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 | | | | | 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 CLASSI-FICATION | PART NO. |
|---|---|---|---|---|---|---|---|
| | Front No Size | Gauge No Size | | mm | in | | |
| **Reaming bit** | | | | | | | |
|  | 4×12 | 8×12 | 35° | 102 | 4" | – | 7723-4802-S48 |
| | 4×12 | 8×12 | 35° | 127 | 5" | – | 7723-4827-S48 |

# LONG HOLE DRILLING UNDERGROUND

T45 (1 3/4")

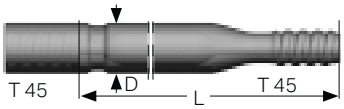
| BITS | FLUSHING HOLE, MM | | BUTTONS, MM | | ANGLE | DIMENSIONS D | | BIT CLASSI-FICATION | PART NO. |
|---|---|---|---|---|---|---|---|---|---|
| | Front No Size | Gauge No Size | Front No Size | Gauge No Size | | mm | in | | |
| **Button bit, regular skirt** | | | | | | | | | |
|  | 4×8 | – | 5×10 | 8×11 | 30° | 70 | 2 3/4" | ● | 7515-1870-S48 |
| | 4×8 | – | 5×11 | 8×12 | 35° | 76 | 3" | ◕ | 7515-1876-R48 |
| | 4×8 | – | 5×11 | 8×12 | 35° | 76 | 3" | ● | 7515-1876-S48 |
| | 4×9 | – | 5×13 | 8×13 | 40° | 89 | 3 1/2" | ◕ | 7515-1889-R48 |
| | 4×9 | – | 5×13 | 8×13 | 35° | 89 | 3 1/2" | ● | 7515-1889-S48 |
|  | 3×10 | – | 9×11 | 9×13 | 40° | 102 | 4" | ◕ | 7515-1902-R48 |
| | 3×10 | – | 9×11 | 9×13 | 35° | 102 | 4" | ● | 7515-1902-S48 |
|  | 2×12 | 1×7.5 | 6×10 | 8×11 | 35° | 76 | 3" | ◑ | 7515-2676A-S48 |
| | 3×10 | 1×7.5 | 6×10 | 9×11 | 35° | 89 | 3 1/2" | ◑ | 7515-2689A-S48 |
|  | 4×8 | 1×8 | 4×10 | 8×11 | 40° | 76 | 3" | ○ | 7515-5576A-C60 |
| | 3×10 | 1×10 | 2×11, 3×12 | 6×13 | 40° | 89 | 3 1/2" | ○ | 7515-5589A-C60 |
| **Button bit, Retrac** | | | | | | | | | |
|  | 4×8 | – | 4×11 | 6×12 | 35° | 70 | 2 3/4" | ◕ | 7515-4870-R48 |
| | 4×8 | – | 5×11 | 8×12 | 35° | 76 | 3" | ◕ | 7515-4876-R48 |
| | 4×8 | – | 5×11 | 8×12 | 35° | 76 | 3" | ● | 7515-4876-S48 |
| | 4×9 | – | 5×13 | 8×13 | 40° | 89 | 3 1/2" | ◕ | 7515-4889-R48 |
| | 4×9 | – | 5×13 | 8×13 | 35° | 89 | 3 1/2" | ● | 7515-4889-S48 |
|  | 3×10 | – | 9×11 | 9×13 | 40° | 102 | 4" | ◕ | 7515-4902-R48 |
| | 3×10 | – | 9×11 | 9×13 | 35° | 102 | 4" | ● | 7515-4902-S48 |
|  | 3×9 | 1×9 | 4×11, 3×11 | 6×12 | 40° | 76 | 3" | ○ | 7515-7576A-C60 |
| | 3×10 | 1×10 | 2×11, 3×12 | 6×13 | 40° | 89 | 3 1/2" | ○ | 7515-7589A-C60 |
|  | 2×11 | 1×6 | 6×10 | 8×11 | 35° | 76 | 3" | ◑ | 7515-7876A-S48 |
| | 3×10 | 1×8 | 6×10 | 9×11 | 35° | 89 | 3 1/2" | ◑ | 7515-7889A-S48 |
|  | 4×8 | – | 6×10 | 8×11 | 35° | 76 | 3" | ◑ | 7515-8276-R48 |
|  | 4×9 | – | 3×11, 4×12 | 8×13 | 35° | 102 | 4" | ◕ | 7515-7902-S48 |
| | 4×8 | – | 6×10 | 8×11 | 35° | 76 | 3" | ◑ | 7515-7976-R48 |
| | 4×7 | – | 6×10 | 8×11 | 30° | 76 | 3" | ◕ | 7515-7976-S48 |
| | 4×8 | – | 6×11 | 8×12 | 40° | 89 | 3 1/2" | ◑ | 7515-7989-R48 |
| | 4×8 | – | 6×11 | 8×12 | 35° | 89 | 3 1/2" | ◕ | 7515-7989-S48 |

# LONG HOLE DRILLING UNDERGROUND

## T45 (1 3/4")

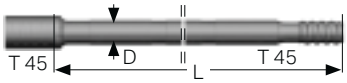
| BITS | FLUSHING HOLE, MM | | BUTTONS, MM | | ANGLE | DIMENSIONS D | | BIT CLASSI-FICATION | PART NO. |
|---|---|---|---|---|---|---|---|---|---|
| | Front No Size | Gauge No Size | Front No Size | Gauge No Size | | mm | in | | |
| **Reaming bit** | | | | | | | | | |
|  | | | 3×14 | 9×14 | 35° | 127 | 5" | – | 7515-5627-S48 |
| | | | 7×14 | 8×14 | 35° | 152 | 6" | – | 7515-5652-S48 |

Pilot diameter: 64 mm

| RODS | DIMENSIONS | | | | | | 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

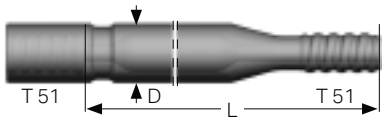
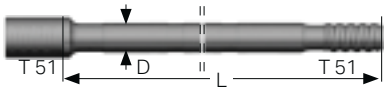
T51 (2")

| BITS | FLUSHING HOLE, MM | | BUTTONS, MM | | ANGLE | DIMENSIONS D | | BIT CLASSI-FICATION | PART NO. |
|---|---|---|---|---|---|---|---|---|---|
| | Front No Size | Gauge No Size | Front No Size | Gauge No Size | | mm | in | | |
| **Button bit, regular skirt** | | | | | | | | | |
|  | 4×10 | – | 5×13 | 8×13 | 40° | 89 | 3 1/2" | ◕ | 7516-1889-R48 |
| | 4×10 | – | 5×13 | 8×13 | 35° | 89 | 3 1/2" | ● | 7516-1889-S48 |
|  | 3×13 | – | 9×11 | 9×13 | 40° | 102 | 4" | ◕ | 7516-1902-R48 |
| | 3×13 | – | 9×11 | 9×13 | 35° | 102 | 4" | ● | 7516-1902-S48 |
| | 3×14 | – | 10×12 | 9×14 | 35° | 115 | 4 1/2" | ● | 7516-1915-S48 |
| | 3×14 | – | 10×13 | 9×14 | 35° | 127 | 5" | ● | 7516-1927-S48 |
|  | 3×12 | 1×8 | 6×10 | 9×11 | 35° | 89 | 3 1/2" | ◑ | 7516-2689A-S48 |
| | 3×12 | 1×8 | 6×12 | 9×12 | 35° | 102 | 4" | ◑ | 7516-2602A-S48 |
|  | 3×12 | 1×12 | 2×11, 3×12 | 6×13 | 40° | 89 | 3 1/2" | ○ | 7516-5589A-C60 |
| | 4×11 | 1×11 | 3×11, 4×12 | 8×13 | 40° | 102 | 4" | ○ | 7516-5502A-C60 |
| **Button bit, Retrac** | | | | | | | | | |
|  | 4×10 | – | 5×13 | 8×13 | 40° | 89 | 3 1/2" | ◕ | 7516-4889-R48 |
| | 4×10 | – | 5×13 | 8×13 | 35° | 89 | 3 1/2" | ● | 7516-4889-S48 |
|  | 3×13 | – | 9×11 | 9×13 | 40° | 102 | 4" | ◕ | 7516-4902-R48 |
| | 3×13 | – | 9×11 | 9×13 | 35° | 102 | 4" | ● | 7516-4902-S48 |
| | 3×14 | – | 10×12 | 9×14 | 40° | 115 | 4 1/2" | ◕ | 7516-4915-R48 |
| | 3×14 | – | 10×12 | 9×14 | 35° | 115 | 4 1/2" | ● | 7516-4915-S48 |
| | 3×14 | – | 10×13 | 9×14 | 35° | 127 | 5" | ● | 7516-4927-S48 |
|  | 3×12 | 1×12 | 2×11, 3×12 | 6×13 | 40° | 89 | 3 1/2" | ○ | 7516-7589A-C60 |
| | 3×11 | 1×11 | 3×11, 4×12 | 8×13 | 40° | 102 | 4" | ○ | 7516-7502A-C60 |
|  | 3×12 | 1×8 | 6×10 | 9×11 | 35° | 89 | 3 1/2" | ◑ | 7516-7889A-S48 |
|  | 4×10 | – | 6×11 | 9×13 | 40° | 102 | 3 1/2" | ◑ | 7516-7989-R48 |
| | 4×10 | – | 6×11 | 9×13 | 35° | 102 | 3 1/2" | ◕ | 7516-7989-S48 |
| | 4×11 | – | 7×12 | 9×14 | 40° | 115 | 4" | ◕ | 7516-7902-S48 |
| | 4×11 | – | 3×11, 4×12 | 8×13 | 40° | 102 | 4" | ◑ | 7516-7902-R48 |
| | 4×10 | – | 3×12, 4×13 | 8×14 | 35° | 115 | 4 1/2" | ◕ | 7516-7915-S48 |
| **Reaming bit** | | | | | | | | | |
|  | | | 7×14 | 8×14 | 35° | 152 | 6" | – | 7516-5652-S48 |

Pilot diameter: 64 mm.

# LONG HOLE DRILLING UNDERGROUND

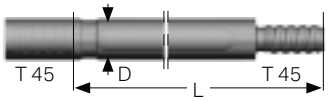
## T51 (2")

| RODS | DIMENSIONS | | | | | | 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 mm. | | | | | | | |
| **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 CLASSI-FICATION | PART NO. |
|---|---|---|---|---|---|---|---|---|---|
| | Front No Size | Gauge No Size | Front No Size | Gauge No Size | | mm | in | | |
| **XDC, button bit** | | | | | | | | | |
|  | 4×7.5 | – | 6×10 | 8×11 | 35° | 76 | 3" | ◑ | 7525-8476-R65 |

| TUBES | DIMENSIONS | | | | | 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 |

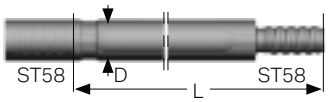
Flushing hole Ø 18 mm.

# LONG HOLE DRILLING UNDERGROUND

## ST58 (2 1/4") TUBE DRILLING TOOLS

| BITS | FLUSHING HOLE, MM | | BUTTONS, MM | | ANGLE | DIMENSIONS D | | BIT CLASSI-FICATION | PART NO. |
|---|---|---|---|---|---|---|---|---|---|
| | Front No Size | Gauge No Size | Front No Size | Gauge No Size | | mm | in | | |
| **XDC, button bit** | | | | | | | | | |
|  | 4×10 | – | 6×12 | 8×12 | 35° | 89 | 3 1/2" | ◑ | 7528-8489-R65 |
| **XDC, button bit, guide retrac** | | | | | | | | | |
|  | 4×10 | – | 6×12 | 8×12 | 35° | 89 | 3 1/2" | ◑ | 7528-7389-R65 |
| **Button bit, Heavy Duty** | | | | | | | | | |
|  | 2×15 | – | 6×12 | 8×14 | 35° | 89 | 3 1/2" | ● | 7528-6989-S65 |
| **Reaming bit** | | | | | | | | | |
|  | | | 7×14 | 8×14 | 35° | 152 | 6" | – | 7528-5652-S65 |

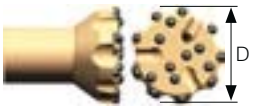
Pilot diameter 76 mm.

| TUBES | DIMENSIONS | | | | | 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 |

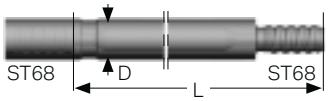
Flushing hole Ø 26 mm.

# LONG HOLE DRILLING UNDERGROUND

## ST68 (2 3/4") TUBE DRILLING TOOLS

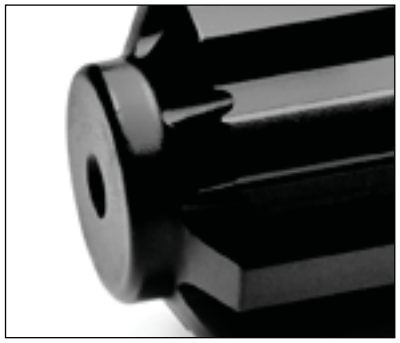
| BITS | FLUSHING HOLE, MM | | BUTTONS, MM | | ANGLE | DIMENSIONS D | | BIT CLASSI-FICATION | PART NO. |
|---|---|---|---|---|---|---|---|---|---|
| | Front No Size | Gauge No Size | Front No Size | Gauge No Size | | mm | in | | |
| **XDC, button bit** | | | | | | | | | |
|  | 4×10 | – | 8×12 | 10×12 | 35° | 102 | 4" | ◑ | 7529-8402-R65 |
| | 4×10 | – | 8×14 | 10×14 | 35° | 115 | 4 1/2" | ◑ | 7529-8415-R65 |
| **Button bit, Heavy Duty** | | | | | | | | | |
|  | 2×15 | – | 5×14 | 8×16 | 35° | 102 | 4" | ● | 7529-6902-S65 |
| **XDC, button bit, guide retrac** | | | | | | | | | |
|  | 4×10 | – | 8×12 | 10×12 | 35° | 102 | 4" | ◑ | 7529-7302-R65 |
| | 4×10 | – | 8×14 | 10×14 | 35° | 115 | 4 1/2" | ◑ | 7529-7315-R65 |
| **Collaring bit** | | | | | | | | | |
|  | 3×18 | – | 8×16 | 9×16 | 35° | 152 | 6" | ◑ | 7529-6652-S48 |
| **Reaming bit** | | | | | | | | | |
|  | | | 3×16 | 9×16 | 35° | 152 | 6" | – | 7529-5652-S65 |
| | | | 4×14 | 16×14 | 35 | 204 | 8" | – | 7529-5604A-S65 |

Pilot diameter 95 mm 7529-5652-S65.
Pilot diameter 137 mm 7529-5604A-S65.

| TUBES | DIMENSIONS | | | | | 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 water to transfer from the rock drill to the 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. These slots are positioned between seals inside the flushing housing/head of the rock drill.

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.

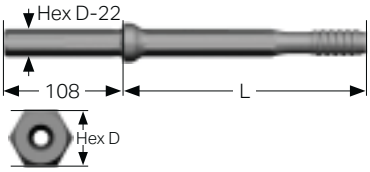
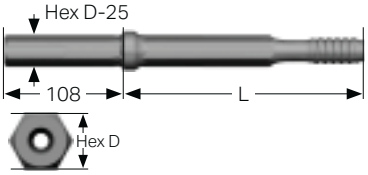
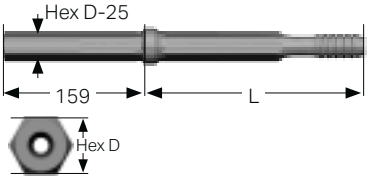
# RELIABLE PERFORMANCE WHILE LOWERING COSTS

While every component in the drill string is crucial, the shank adapter must be engineered to transmit impact energy from the rock-drill piston – along with 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 so with great endurance and dependability.

With this in mind, we manufacture premium quality shank adapters for most brands of rock drills. We have yet more specially developed products that are not featured in this catalogue. Please visit our website or contact us directly to find out more, and to order the shank adapter that you need.

# SHANK ADAPTERS

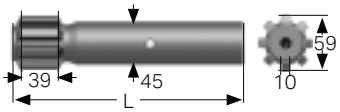
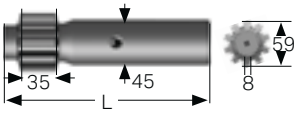
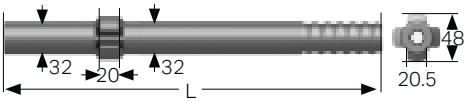
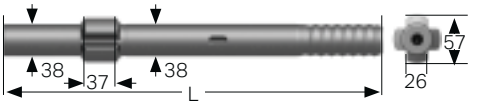
## HEXAGONAL SHANK ADAPTERS

| | FLUSHING TUBE (MM) | THREAD | LENGTH (MM) | PART NO. |
|---|---|---|---|---|
| **For hexagonal bushing 22 × 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 × 108 mm** | | | | |
|  | 4.5–5.0 | R23 | 255 | 7807-7103-30 ! |
| | 4.5–5.0 | R25 | 255 | 7802-7103-14 |
| **For hexagonal bushing 25 × 159 mm** | | | | |
|  | 8 | R25 | 255 | 7802-7103-21 |

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

# SHANK ADAPTERS

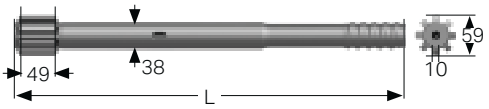
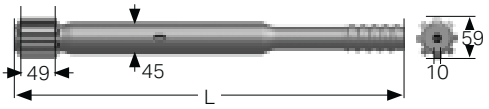
SANDVIK

| | APPLICATION | 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 |
| | TU, BO | – | R28 | 255 | 7809-7567-01 |
| **HL 300** | | | | | |
|  | BE | – | R32 | 400 | 7803-7549-01 |
| **HL 300S** | | | | | |
|  | BO, TU | – | R32 | 245 | 7803-7547-01 |
| **RD308/RD314/RD414** | | | | | |
|  | UG | – | R32 | 205 | 7803-7663-01 |
|  | UG | – | 138 | 410 | 7304-7672-01 |
| | UG | – | T35 | 410 | 7307-7672-01 |
| | UG | – | R32 | 410 | 7803-7672-01 |
| **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 |
| **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 |

S = For underground drilling, T = Drill with stabilizer

# SHANK ADAPTERS

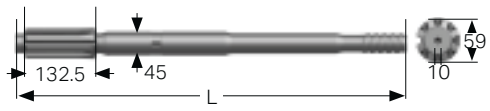
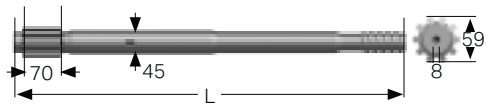
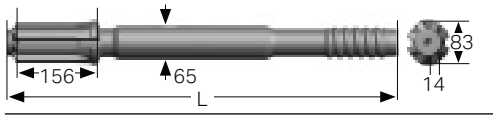
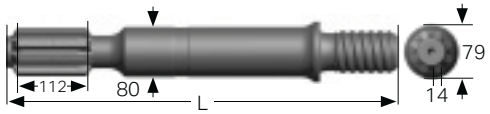
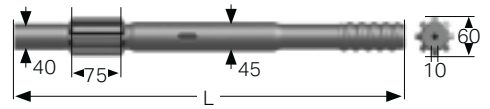
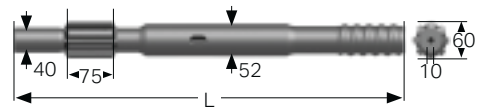
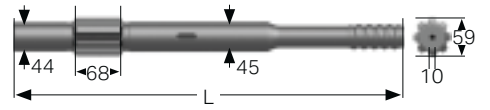
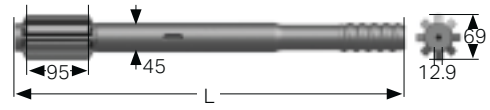
## SANDVIK

| | APPLICATION | FLUSHING HOLE (MM) | THREAD | LENGTH (MM) | PART NO. |
|---|---|---|---|---|---|
| **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 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 |
| **HLX 5 / HLX 5T** | | | | | |
|  | 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 |
| **HLX 5T** | | | | | |
|  | TU | – | T38 | 720 | 7304-7668-01 |
| | TU | – | T35 | 720 | 7307-7668-01 |
| **HLX5 PE-45** | | | | | |
|  | TU | – | R32 | 575 | 7803-7664-01 |
| | TU | – | T38 | 575 | 7304-7664-01 |
| | TU | – | T38 | 720 | 7304-7671-01 |
| | TU | – | T35 | 720 | 7307-7671-01 |

PE = For Power Extractor rock drill, S = For underground drilling, T = Drill with stabilizer

# SHANK ADAPTERS

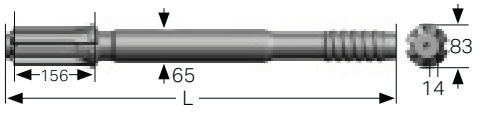
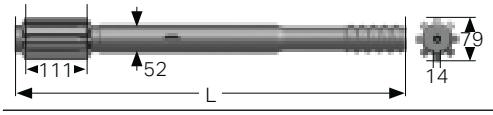
SANDVIK

| | APPLICATION | FLUSHING HOLE (MM) | THREAD | LENGTH (MM) | PART NO. |
|---|---|---|---|---|---|
| **RD520/RD525 – PE** | | | | | |
|  | TU | – | T38 | 745 | 7304-7673-01 |
| | TU | – | T35 | 745 | 7307-7673-01 |
| **RD520/RD525** | | | | | |
|  | 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 |
| **RD1635CF** | | | | | |
|  | TU | – | GT60 | 760 | 7600-6025-12 |
| | TU | – | GT60 | 760 | 7600-6030-15 |
| **RD1635CF-80** | | | | | |
|  | TU | – | ST68 | 630 | 7329-6034-15 |
| **HL 600-45 / HL 600 S-45** | | | | | |
|  | 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 | – | 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 |

PE = For Power Extractor rock drill, S = For underground drilling, T = Drill with stabilizer

# SHANK ADAPTERS

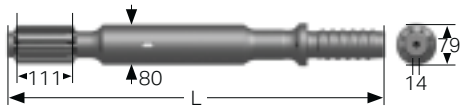
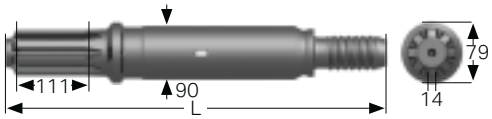
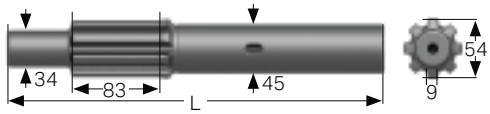
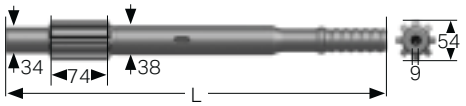
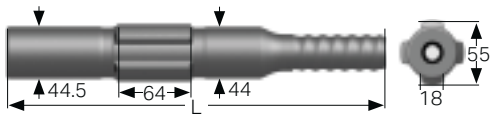
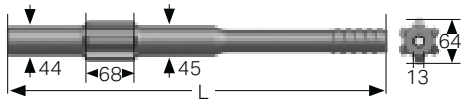
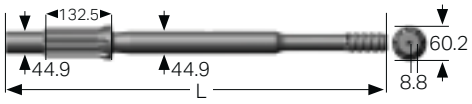
## SANDVIK

| | APPLICATION | FLUSHING HOLE (MM) | THREAD | LENGTH (MM) | PART NO. |
|---|---|---|---|---|---|
| **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 |
| **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 |
| **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 |
| **HL1000/1500PE/1560HF** | | | | | |
|  | BE | – | GT60 | 670 | 7600-6025-05 |
| **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 |

PE = For Power Extractor rock drill, S = For underground drilling, T = Drill with stabilizer

# SHANK ADAPTERS

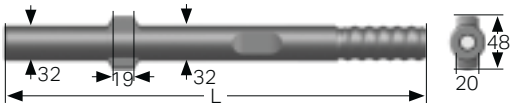
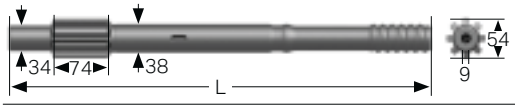
SANDVIK

| | APPLICATION | FLUSHING HOLE (MM) | THREAD | LENGTH (MM) | PART NO. |
|---|---|---|---|---|---|
| **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 |
| **HL 1500T/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 |
| **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** | | | | | |
|  | 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 |
| **Toyo TH800RP** | | | | | |
|  | BE | – | T38 | 766 | 7304-7588-01 |

PE = For Power Extractor rock drill, S = For underground drilling, T = Drill with stabilizer

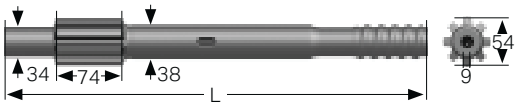
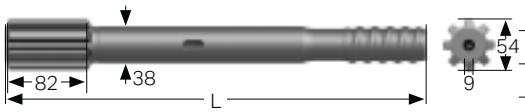
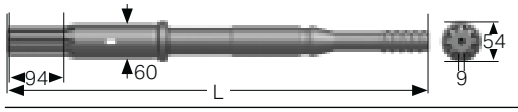
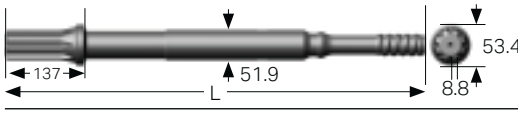
# SHANK ADAPTERS

## ATLAS COPCO

| | APPLICATION | 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 COP 1032 HD** | | | | | |
|  | TU, BO | – | R32 | 340 | 7803-3588-01 |
| **Atlas Copco COP 1032 LE** | | | | | |
|  | BE, DS | – | R32 | 550 | 7803-3576-01 |
| **Atlas Copco COP 1036/1038 HB** | | | | | |
|  | 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 | – | T38 | 575 | 7304-3593-01 |
|  | BE, PD | – | T45 | 575 | 7305-3593-01 |
| **Atlas Copco COP 1132** | | | | | |
|  | PD | – | R32 | 410 | 7803-3581-02 |
| | PD | – | R32 | 500 | 7803-3583-02 |

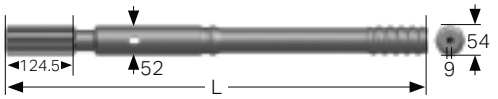
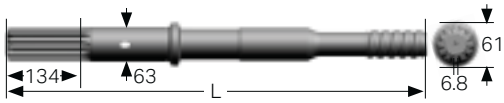
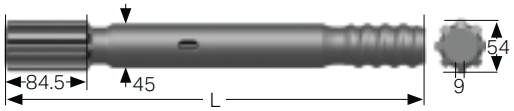
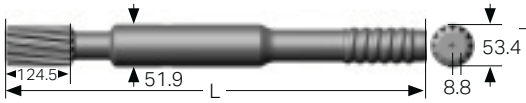
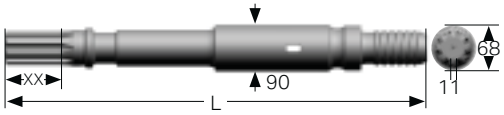
# SHANK ADAPTERS

## ATLAS COPCO

| | APPLICATION | FLUSHING HOLE (MM) | THREAD | LENGTH (MM) | PART NO. |
|---|---|---|---|---|---|
| **Atlas Copco COP 1238** | | | | | |
|  | 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 | – | 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, COP 1440, COP 1838 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 | 7803-3656-02 |
| | BE | – | T35 | 525 | 7307-3656-01 |
| | BO | – | T38 | 525 | 7304-3656-01 |
| **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 1838MUX/HUX** | | | | | |
|  | BE, PD | – | T38 | 730 | 7304-3663-01 |
| | BE, PD | – | T45 | 730 | 7305-3663-01 |

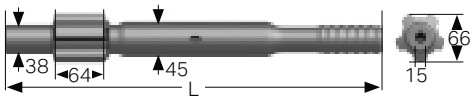
# SHANK ADAPTERS

## ATLAS COPCO

| | APPLICATION | FLUSHING HOLE (MM) | THREAD | LENGTH (MM) | PART NO. |
|---|---|---|---|---|---|
| **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 1850 SPEC** | | | | | |
|  | BE, PD | – | T51 | 565 | 7306-3691-01 |
| **Atlas Copco COP 2150, COP 2550** | | | | | |
|  | BE | – | T51 | 770 | 7306-3692-01 |
| **Atlas Copco COP 2160, COP 2560** | | | | | |
|  | BE | – | T51 | 770 | 7306-3689-01 |
| | BE | – | GT60 | 770 | 7600-3689-01 |
| **Atlas Copco COP 2160EX/2560EX** | | | | | |
|  | BE | – | T51 | 770 | 7306-3699-01 |
| | BE | – | GT60 | 770 | 7600-3699-01 |
| **Atlas Copco COP 3038** | | | | | |
|  | TU | – | T45 | 435 | 7305-3667-01 |
| | TU, PD | – | T35 | 525 | 7307-3671-01 |
| **Atlas Copco COP 4050 ME** | | | | | |
|  | PD | – | GT60 | 700 | 7600-3712-01 |
| **Atlas Copco COP 4050 MUX** | | | | | |
|  | PD | – | ST68 | 835 | 7329-3720-01 |
| | PD | – | ST58 | 835 | 7328-3720-01 |

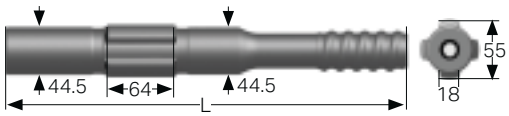
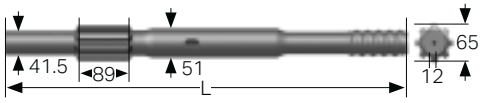
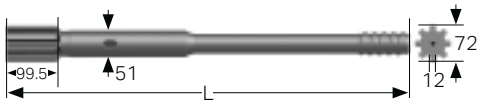
# SHANK ADAPTERS

## BOART

| | APPLICATION | FLUSHING HOLE (MM) | THREAD | LENGTH (MM) | PART NO. |
|---|---|---|---|---|---|
| **Boart HD 125, HD 150, HD 160** | | | | | |
|  | TU | – | R38 | 495 | 7804-4993-01 |
| | TU | – | T38 | 495 | 7304-4993-01 |

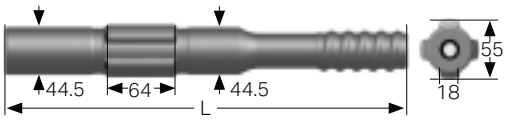
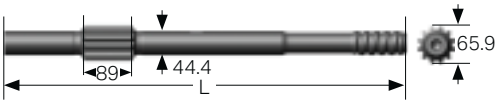
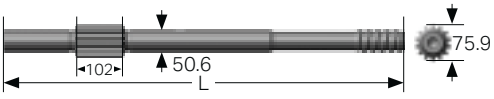
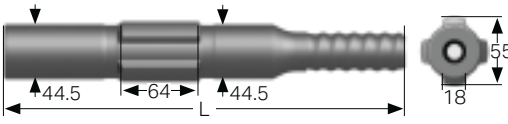
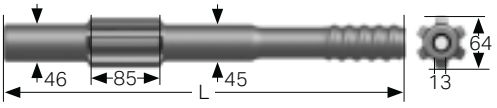
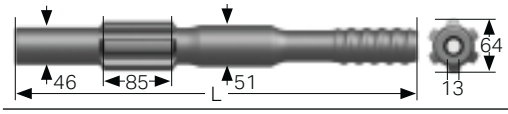
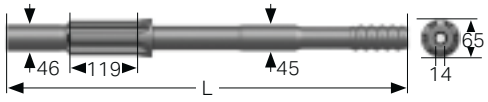
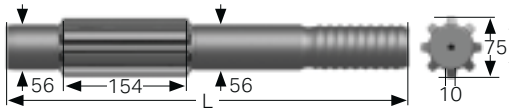
# SHANK ADAPTERS

## FURUKAWA

| | APPLICATION | 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 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 |
| **Furukawa HD 715 RP** | | | | | |
|  | BE | – | T35 | 885 | 7306-7424-01 |

# SHANK ADAPTERS

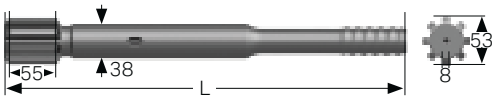
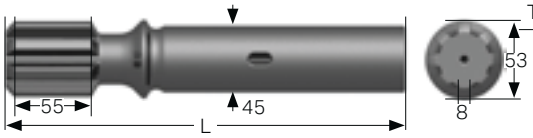
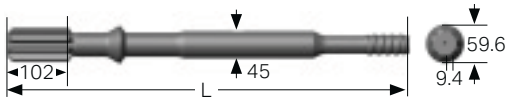
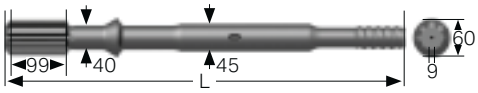
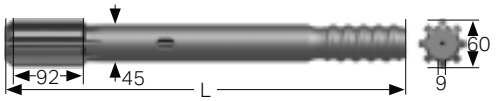
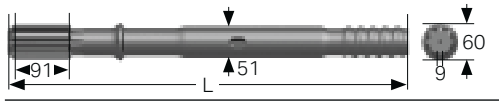
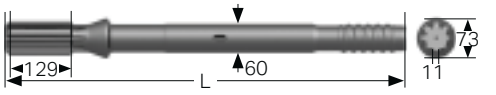
## GARDNER-DENVER, INGERSOLL-RAND AND KLEMM

| | 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, BE | 14 | T38 | 446 | 7304-7500-60 |
| | TU, BE | 14 | T38 | 380 | 7304-7543-60 |
| **Gardner-Denver HPR1H** | | | | | |
|  | TU, BE | – | T45 | 745 | 7305-4883-01 |
| **Gardner-Denver HPR2** | | | | | |
|  | TU, BE | – | T51 | 916 | 7306-4885-02 |
| **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

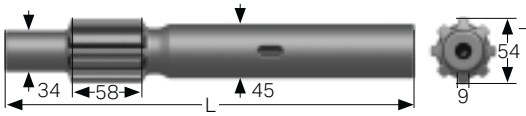
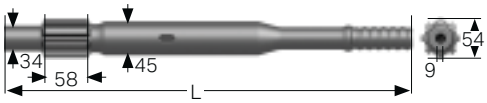
# SHANK ADAPTERS

## MONTABERT

| | APPLICATION | FLUSHING HOLE (MM) | THREAD | LENGTH (MM) | PART NO. |
|---|---|---|---|---|---|
| **Montabert HC 40** | | | | | |
|  | BE | – | R32 | 447 | 7803-4725-01 |
| | BE | – | T38 | 447 | 7304-4725-01 |
| **Montabert HC 40 (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 |
| | TU | – | R32 | 440 | 7803-4720-01 |
| **Montabert HC 80R, HC 120R, HC 110RP** | | | | | |
|  | BE | – | T35 | 670 | 7307-7544-01 |
| **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

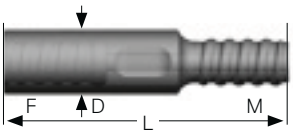
| | APPLICATION | FLUSHING HOLE (MM) | THREAD | LENGTH (MM) | PART NO. |
|---|---|---|---|---|---|
| **SIG HBM 50, 100 and 120** | | | | | |
|  | BO | – | R32 | 340 | 7803-3588-01 |
| **SIG HBM 50, 100 and 120** | | | | | |
|  | BE, DS | – | R32 | 550 | 7803-3576-01 |
| SIG 101 | | | | | |
|  | BE | – | R32 | 500 | 7803-3591-01 |

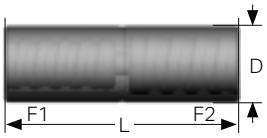

SANDVIK
SANDVIK
SANDVIK

# WHEN EVERY MINUTE COUNTS: "THE RIGHT TOOLS FOR THE RIGHT JOB"

Auxiliary tools are an important part of the drilling application. This is why we provide top grade tools in order to keep your process moving, and to avoid unnecessary and costly downtime. Our accessories for top hammer drilling tools are simple, practical additions. Their purpose is to enable the tool system to be tailored to meet your different demands, in different applications and working environments. Furthermore, our auxiliary tools optimize your system providing higher productivity and reliability with lower operating costs and minimal environmental impact.

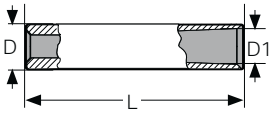
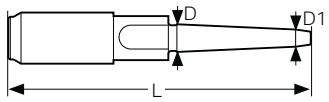
# AUXILIARY TOOLS

| BIT ADAPTERS | WRENCH FLAT | THREADS | | DIMENSIONS | | | | PART NO. |
|---|---|---|---|---|---|---|---|---|
| | (mm) | F (Female) | M (Male) | L (mm) | L (in) | D (mm) | D (in) | |
|  | 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** | R38 | 225 | 8 55/64" | 45 | 1 49/64" | 7833-4301 |
| | 38 | **R32** | T38 | 225 | 8 55/64" | 45 | 1 49/64" | 7833-4401 |
| | 38 | **T35** | T38 | 250 | 9 27/32" | 48 | 1 7/8" | 7337-4401 |
| | 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 |
| | 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 |

| KNOCK-OFF TOOLS | | PART NO. |
|---|---|---|
| **For Hex 22 and Hex 25** | | |
|  | Pilot rods, type 7922-XXXX-XX | 795-1469 |
| **For tapered bits** | | |
|  | Hex 22 | 795-1467 |

# AUXILIARY TOOLS

| FISHING TOOLS | | DIMENSIONS | | | | PART NO. |
|---|---|---|---|---|---|---|
| | | D | D1 | L | Thread | |
| **Fishing sleeve** | | | | | | |
|  | R32 round/Hex. rods/coupling sleeves | 49 | 47.2 | 300 | R32 | 795-1604A |
| | T38 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 |
| **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 |
| | GT60 rods | 50 | 19.6 | 500 | GT60 | 795-2604 |
| | ST58 tubes Ø 76 [2] | 57 | 22 | 400 | ST58 | 795-1699 |
| | ST68 tubes Ø 87 [2] | 71 | 35 | 431 | ST68 | 795-2600 |

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

| 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 | 610 | 870 | 240 | 795-1964 |

# REGULARLY GRINDING IMPROVES PRODUCTIVITY

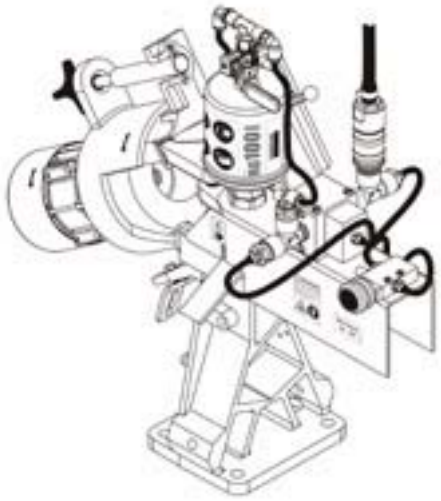
By regrinding your drills regularly, you can increase the length of their service life between 5 and 10 times. We offer a complete range of grinders and grinding accessories, from small manual pneumatic grinders to stationary semi-automatic ones for the economical grinding of large volumes of drill bits. Careful maintenance of the cemented carbide inserts in drilling tools improves almost all drilling parameters in rock drilling. In other words, you can make sure that you are always able to work as efficiently as possible.

# INTEGRAL STEEL GRINDER

RG100E

## GRINDING APPLICATIONS

Mobile, lightweight, electrical grinder. Intended for frontal and gauge grinding of chisel integral steels.



| TECHNICAL DATA | |
|---|---|
| Air pressure | Max 8 bar |
| Air consumption | 5–10 l/sec |
| Rated power (motor) | 1.1 kW |
| Idling speed | 2800 (50 Hz) r.p.m./<br>3400 (60 Hz) r.p.m. |
| Hose connections: | |
| Air, air hose | 9.5 mm (3/8") |
| Water, water hose | 9.5 mm (3/8") |
| Dimensions: H × W × D | 611 × 550 × 350 mm |
| Grinding wheel dimensions | 127 × 546 × 321 mm |
| Weight inclusive of grinding wheel | 21.5 kg |
| Cutting-edge radius | 80 mm |
| Cutting-edge angle | 110° |

## PART. NO FOR MACHINES

Complete grinder, hydraulic powered 796-5320-XX*

*For two last digits, see table below, under "Code"

## VOLTAGE/PHASE ALT.

| Voltage | Phases | Hz | Code |
|---|---|---|---|
| 220–240 V | 1 | 50/60 Hz | 50 |
| 380–420 V | 3 | 50/60 Hz | 52 |
| 220–240 V | 3 | 50/60 Hz | 59 |

## ACCESSORIES (INCLUDED IN MACHINE DELIVERY)

| | |
|---|---|
| Grinding wheel for dry grinding | 797-1227-15 |
| Protective goggles | 797-5771 |
| T-hexagon wrench | 797-5766-06 |

## ACCESSORIES (OPTIONAL)

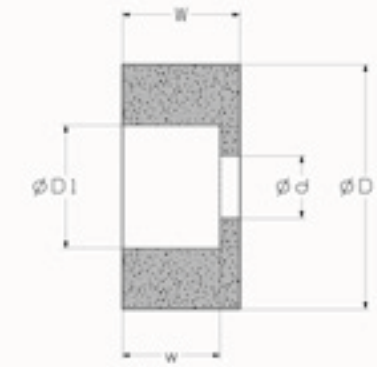
| | |
|---|---|
| Grinding wheel (dry grinding) | 797-1227-15 |
| Grinding wheel (wet grinding) | 797-1227-10 |
| Kit for grinding plug hole drill steels | 797-5489-50 |
| Mounting bracket (for drill rig) | 797-5330-91 |
| Support for integral steels | 797-5330-92 |
| Grinding template for chisel bit | 795-1343 |
| Grinding template for plug hole steels | 795-1336 |

## RECOMMENDED LUBRICANTS

Grease, 0.42 kg cartridge 797-5773-22

## GRINDING WHEEL DIMENSIONS

D = 127 mm
W = 63 mm
d = 32 mm
D1 = 80 mm
w = 50 mm

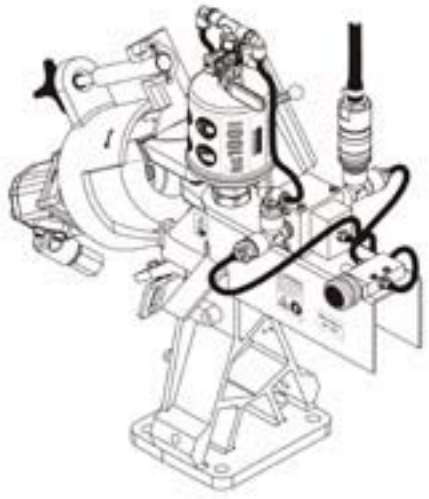


# INTEGRAL STEEL GRINDER

RG100H

## GRINDING APPLICATIONS

Mobile, lightweight, hydraulic grinder. Intended for frontal and gauge grinding of chisel integral steels.



| TECHNICAL DATA | |
|---|---|
| Hydraulic pressure | Max 200 bar/Min. 140 bar |
| Oil flow consumption | 12 l/min |
| Air pressure | Max 8 bar |
| Air consumption | 5–10 l/sec |
| Rated power (motor) | 4 kW |
| Idling speed | 3700 r.p.m. |
| Hose connections: | |
| Hydraulic, hydraulic hose | R 3/8" female thread |
| Air, air hose | 9.5 mm (3/8") |
| Water, water hose | 9.5 mm (3/8") |
| Dimensions: H × W × D | 600 × 550 × 350 mm |
| Grinding wheel dimensions | 127 × 63 × 32 mm |
| Weight inclusive of grinding wheel | 15.5 kg |
| Cutting-edge radius | 80 mm |
| Cutting-edge angle | 110° |

## PART. NO FOR MACHINES

| | |
|---|---|
| Complete grinder, hydraulic powered | 796-5330 |

## ACCESSORIES (INCLUDED IN MACHINE DELIVERY)

| | |
|---|---|
| Grinding wheel for dry grinding | 797-1227-15 |
| Protective goggles | 797-5771 |
| T-hexagon wrench | 797-5766-06 |

## ACCESSORIES (OPTIONAL)

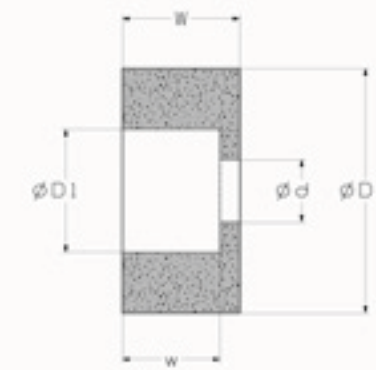
| | |
|---|---|
| Grinding wheel (dry grinding) | 797-1227-15 |
| Grinding wheel (wet grinding) | 797-1227-10 |
| Kit for grinding plug hole drill steels | 797-5489-50 |
| Mounting bracket (for drill rig) | 797-5330-91 |
| Support for integral steels | 797-5330-92 |
| Grinding template for chisel bit | 795-1343 |
| Grinding template for plug hole steels | 795-1336 |

## RECOMMENDED LUBRICANTS

| | |
|---|---|
| Grease, 0.42 kg cartridge | 797-5773-22 |

## GRINDING WHEEL DIMENSIONS

D = 127 mm
W = 63 mm
d = 32 mm
D1 = 80 mm
w = 50 mm

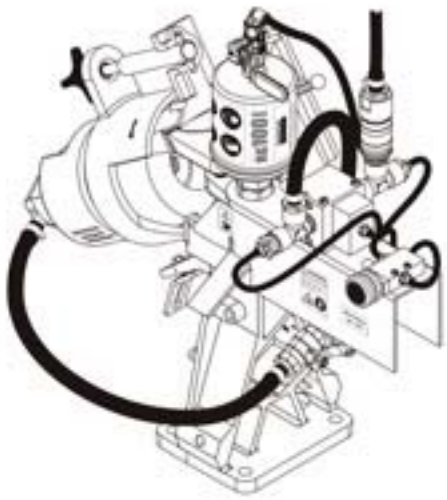


# INTEGRAL STEEL GRINDER

RG100P

## GRINDING APPLICATIONS

Mobile, lightweight, pneumatic grinder. Intended for frontal and gauge grinding of chisel integral steels.



| TECHNICAL DATA | |
|---|---|
| Air pressure | Max 8 bar/min 6 bar |
| Air consumption | 40–60 l/sec |
| Rated power (motor) | 1.7 kW |
| Idling speed | 4900 r.p.m. |
| Hose connection: | |
| Air, air hose | 12.5 mm (1/2") |
| Air or water hose for cooling | 9.5 mm (3/8") |
| Dimensions: H × W × D | 660 × 550 × 350 mm |
| Grinding wheel dimensions | 127 × 63 × 32 mm |
| Weight inclusive of grinding wheel | 18.5 kg |
| Cutting-edge radius | 80 mm |
| Cutting-edge angle | 110° |

## PART. NO FOR MACHINES

| | |
|---|---|
| Grinder, air powered | 796-5300 |

## ACCESSORIES (INCLUDED IN MACHINE DELIVERY)

| | |
|---|---|
| Grinding wheel for dry grinding | 797-1227-15 |
| Protective goggles | 797-5771 |
| T-hexagon wrench | 797-5766-06 |
| Support bracket | 797-5289 |

## ACCESSORIES (OPTIONAL)

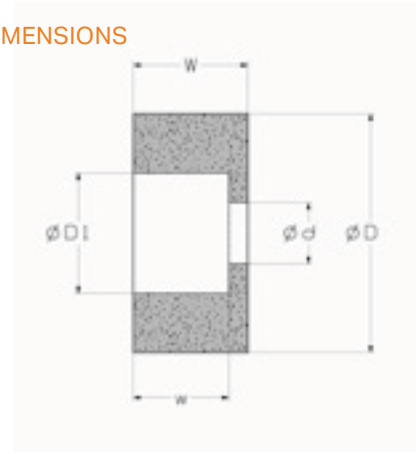
| | |
|---|---|
| Grinding wheel (dry grinding) | 797-1227-15 |
| Grinding wheel (wet grinding) | 797-1227-10 |
| Kit for grinding plug hole drill steels | 797-5489-50 |
| In line oiler | 797-5747-50 |
| Mounting bracket (for drill rig) | 797-5330-91 |
| Support for integral steels | 797-5330-92 |
| Grinding template for chisel bit | 795-1343 |
| Grinding template for plug hole steels | 795-1336 |

## RECOMMENDED LUBRICANTS

| | |
|---|---|
| Air tool oil, 1 litre | 797-5870-90 |
| Grease, 0.42 kg cartridge | 797-5773-22 |

## GRINDING WHEEL DIMENSIONS

D = 127 mm
W = 63 mm
d = 32 mm
D1 = 80 mm
w = 50 mm

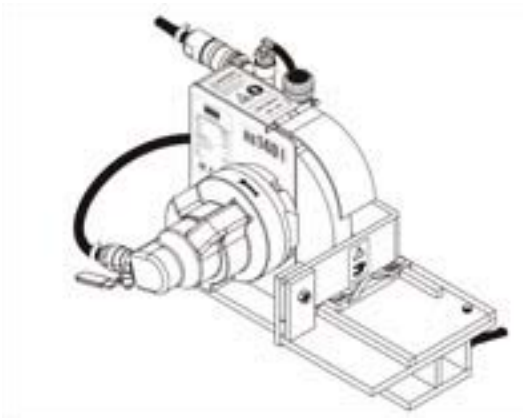


# INTEGRAL STEEL GRINDER AND CROSS GRINDER

RG140P

## GRINDING APPLICATIONS

Basic pneumatic grinder intended for frontal and gauge grinding of integral steels (with straight grinding wheel) or cross and X-bits (with angled grinding wheel). The machine is suitable for bit sizes: Integral steels, all diameters. Cross bits Ø 33–43 mm.



**TECHNICAL DATA**

| | |
|---|---|
| Air pressure | Max 8 bar/min 6 bar |
| Air consumption | 40–60 l/sec |
| Rated power (motor) | 1.7 kW |
| Idling speed | 3000 r.p.m. |
| Hose connection: | |
| Air, air hose | 12.5 mm (1/2") |
| Dimensions: H × W × D | 505 × 276 × 326 mm |
| Grinding wheel dimensions: | |
| Grinding wheel, 132° | 200 × 28 × 32 mm |
| Grinding wheel, straight | 200 × 32 × 32 mm |
| Weight inclusive of grinding wheel | 22 kg |

## PART. NO FOR MACHINES

| | |
|---|---|
| Grinder, air powered | 796-3800 |

## ACCESSORIES (INCLUDED IN MACHINE DELIVERY)

| | |
|---|---|
| Grinding wheel, for 90° cross bits (bit size: Ø 33–43, for dry grinding) | 797-1185-28* |
| Grinding wheel dresser | 796-1858 |
| Protective goggles | 797-5771 |
| T-hexagon wrench | 797-5766-06 |
| Dressing template for 4-inserts (for 90° cross bits) | 797-6035-06 |

## ACCESSORIES (NOT INCLUDED, TO BE ORDERED SEPARATELY)

| | |
|---|---|
| Grinding wheel, straight for gauge grinding (for dry grinding) | 797-1101-32** |
| Grinding wheel, for 90° cross bits (bit size: Ø 33–39, for dry grinding) | 797-1101-25 |

## ACCESSORIES (OPTIONAL)

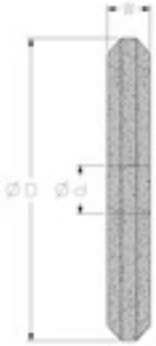
| | |
|---|---|
| Spare rollers for wheel dresser | 796-1867 |
| In line oiler | 797-5747-50 |
| Mounting bracket (for drill rig) | 797-5330-91 |

## RECOMMENDED LUBRICANTS

| | |
|---|---|
| Air tool oil, 1 litre | 797-5870-90 |
| Grease, 0.42 kg cartridge | 797-5773-22 |

## GRINDING WHEEL DIMENSIONS*

D = 200 mm
W = 28 mm
d = 32 mm



## GRINDING WHEEL DIMENSIONS**

D = 200 mm
W = 32 mm
d = 32 mm

# BUTTON BIT GRINDER

RG400

## GRINDING APPLICATIONS

Handheld, lightweight, lower-powered pneumatic grinder intended for all kinds of button bits with max button size of 10 mm.


| TECHNICAL DATA | |
|---|---|
| Air Supply pressure | Max 8 bar/min 6 bar |
| Air consumption | 16–17 l/sec |
| Spindle speed | 14000 r.p.m. |
| Flushing air pressure | Max. 6 bar |
| Flushing water pressure | Max. 6 bar |
| Water consumption | 5–6 l/min |
| Hose connections: | |
| Air, air hose | 12.5 mm (1/2") |
| Water, water hose | 6.3 mm (1.4") |
| Dimensions: H × W × D | 156 × 533 × 84 mm |
| Weight | 2.9 kg |

## PART. NO FOR MACHINES

| | |
|---|---|
| Complete grinder | 796-5116 |

## ACCESSORIES (INCLUDED IN MACHINE DELIVERY)

| | |
|---|---|
| O-ring | 797-5888-24 |
| Hose, 6/4 mm | 797-5957-06 |
| Connector, 6-1/4" | 797-5899-13 |
| Nylon packing, 1/4" | 797-5934-13 |
| House Nipple, 1/4"–R1/4" | 797-5777-13 |
| Plug 6, R9 6 mm | 797-5769-06 |
| Screw (to remove damper) | 797-5463-31 |
| Shock Absorber | 797-5273-01 |

## ACCESSORIES (OPTIONAL)

| | |
|---|---|
| Tools for O-ring replacement | 797-5452 |
| In line oiler | 797-5747-50 |
| Cooling/tank unit, complete | 797-5488-85 |
| Grinding gauge for button up Ø 16 mm | 795-1396 |
| Grinding cups | see page 113 |

## RECOMMENDED LUBRICANTS

| | |
|---|---|
| Air tool oil, 1 litre | 797-5870-90 |

# BUTTON BIT GRINDER

RG410

## GRINDING APPLICATIONS

Handheld, lightweight, higher-powered pneumatic grinder intended for all kinds of button bits.


| TECHNICAL DATA | |
|---|---|
| Air Supply pressure | Max 8 bar/min 6 bar |
| Air consumption | 40–55 l/sec |
| Spindle speed | 19000 r.p.m. |
| Flushing air pressure | Max. 6 bar |
| Flushing water pressure | Max. 6 bar |
| Water consumption | 5–6 l/min |
| Hose connections: | |
| Air, air hose | 12.5 mm (1/2") |
| Water, water hose | 6.3 mm (1.4") |
| Dimensions: H × W × D | 156 × 533 × 84 mm |
| Weight | 2.9 kg |

## PART. NO FOR MACHINES

| | |
|---|---|
| Complete grinder | 796-5100 |

## ACCESSORIES (INCLUDED IN MACHINE DELIVERY)

| | |
|---|---|
| O-ring | 797-5888-24 |
| Hose, 6/4 mm | 797-5957-06 |
| Connector, 6-1/4" | 797-5899-13 |
| Nylon packing, 1/4" | 797-5934-13 |
| House Nipple, 1/4"-R1/4" | 797-5777-13 |
| Plug 6, R9 6 mm | 797-5769-06 |
| Screw (to remove damper) | 797-5463-31 |
| Shock Absorber | 797-5273-01 |

## ACCESSORIES (OPTIONAL)

| | |
|---|---|
| Tools for O-ring replacement | 797-5452 |
| In line oiler | 797-5747-50 |
| Cooling/tank unit, complete | 797-5488-85 |
| Grinding gauge for button up Ø 16 mm | 795-1396 |
| Grinding cups | see page 113 |

## RECOMMENDED LUBRICANTS

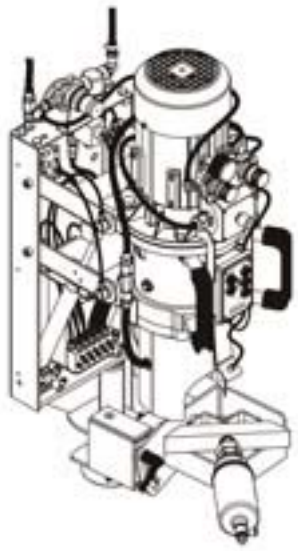
| | |
|---|---|
| Air tool oil, 1 litre | 797-5870-90 |

# BUTTON BIT GRINDER

RG420E

## GRINDING APPLICATIONS

Stationary electrical grinder for workshops, or to be mounted onto drill rigs. Intended for all kinds of button bits. Bit holder suitable for diameters of up to Ø 122 mm: Top hammer (TH) button bits (normal skirt) up to Ø 152 mm, TH button bits (retrac skirt) up to Ø 127 mm and down the hole button bits up to Ø 220 mm (max. shank Ø 110 mm and max. head length 110 mm).



**TECHNICAL DATA**

| | |
|---|---|
| Air Supply pressure | Max 10 bar/min 6 bar |
| Air consumption | 0.5 – 3 l/sec |
| Water Supply pressure | Max 8 bar/min 3.5 bar |
| Water consumption (cooling tank) | 2 – 4 l/min |
| Water consumption (pump) | 0.2 – 1 l/min |
| Coolant/flushing medium | Water |
| Rated power (motor) | 1.5 kW |
| Air connection, air hose | 9.5 mm (3/8") |
| Water connection, water hose | 9.5 mm (3/8") |
| Dimensions: H × W × D | 730 × 390 × 390 mm |
| Weight | 45 kg |

## PART. NO FOR MACHINES

| | |
|---|---|
| Grinder | 796-6210-XX* |
| Grinder with pump | 796-6260-XX* |
| Grinder with cover | 796-6215-XX* |
| Grinder with pump and cover | 796-6265-XX* |

*For two last digits, see table below, under "Code"

## VOLTAGE/PHASE ALT.

| Voltage | Phases | Hz | Code |
|---|---|---|---|
| 220 – 240 V | 1 | 50/60 Hz | 50 |
| 380 – 420 V | 3 | 50/60 Hz | 52 |
| 220 – 240 V | 3 | 50/60 Hz | 59 |
| 440 V | 3 | 60 Hz | 63 |

## ACCESSORIES (INCLUDED IN MACHINE DELIVERY)

| | |
|---|---|
| Bit insert | 797-5502-26 |
| O-ring for Grinding cup | 797-5888-24 |
| Assembly tools for O-ring replacement | 797-5452 |
| Lock plate | 797-5502-39 |
| Spindle tool 9 mm | 797-5464-07 |
| Grease gun | 797-5870-20 |

## ACCESSORIES (OPTIONAL)

| | |
|---|---|
| Grinding cups | see page 113 |
| Bit Mandrels | 797-5348-XX** |

**23 = R23, 25 = R25, 28 = R28, 32 = R32, 33 = R33, 35 = R35, 38 = R28/T38, 45 = T45, 51 = T51, 58 = ST58, 60 = GT60, 68 = ST68

Example: Bit mandrel R32 = 797-5348-32

| | |
|---|---|
| Grinding gauge for button up to Ø 16 mm | 795-1396 |

## SPARE PART KITS

| | |
|---|---|
| Complete Grinding head (13000 r.p.m, including flushing head) | 797-5130/1 |
| All bearings, seals and screws for grinding head | 797-5463-05 |
| Outer Spindle (for Flushing head) | 797-5464-02 |
| Small kit for flushing head | 797-5464-44 |
| Big kit for flushing head | 797-5464-59 |

## RECOMMENDED LUBRICANTS

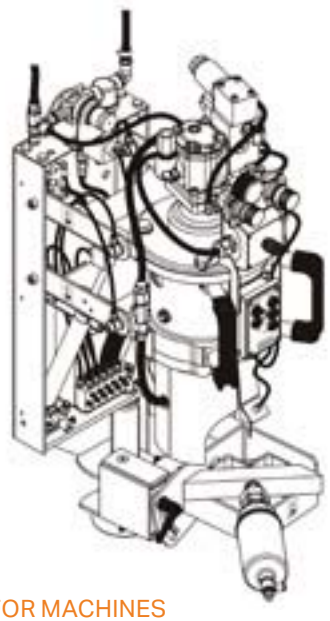
| | |
|---|---|
| Gear oil, 1 litre | 797-5870-15 |
| Air tool oil, 1 litre | 797-5870-90 |
| Grease, 0.42 kg cartridge | 797-5773-22 |

# BUTTON BIT GRINDER

RG420H

## GRINDING APPLICATIONS

Stationary hydraulic grinder for workshops ,or to be mounted onto drill rigs. Intended for all kinds of button bits. Bit holder holds diameters up to Ø 122 mm: Top hammer (TH) button bits (normal skirt) up to Ø 152 mm, TH button bits (retrac skirt) up to Ø 127 mm and down the hole button bits up to Ø 220 mm (max. shank Ø 110 mm and max. head length 110 mm).



**TECHNICAL DATA**

| | |
|---|---|
| Air Supply pressure | Max 10 bar/min 6 bar |
| Air consumption | 0.5 – 3 l/sec |
| Water Supply pressure | Max 8 bar/min 3.5 bar |
| Water consumption (cooling tank) | 2 – 4 l/min |
| Water consumption (pump) | 0.2 – 1 l/min |
| Coolant/flushing medium | Water |
| Rated power (motor) | 2.8 – 4 kW |
| Air connection, air hose | 9.5 mm (3/8") |
| Water connection, water hose | 9.5 mm (3/8") |
| Hydraulic connection, hydraulic hose | R3/8" female thread |
| Dimensions: H × W × D | 730 × 390 × 390 mm |
| Weight | 40 kg |
| Electricity supply | 24V DC, 5A |
| Hydraulic Supply pressure | Max 200 bar/Min 140 bar |
| Hydraulic-oil flow | 12 l/min |

## PART. NO FOR MACHINES

| | |
|---|---|
| Grinder | 796-6230 |
| Grinder with pump | 796-6280 |
| Grinder with cover | 796-6235 |
| Grinder with pump and cover | 796-6285 |
| Grinder with tank | 796-6231 |
| Grinder with tank and cover | 796-6236 |

## ACCESSORIES (INCLUDED IN MACHINE DELIVERY)

| | |
|---|---|
| Bit insert | 797-5502-26 |
| O-ring for Grinding cup | 797-5888-24 |
| Assembly tools for O-ring replacement | 797-5452 |
| Lock plate | 797-5502-39 |
| Spindle tool 9 mm | 797-5464-07 |
| Grease gun | 797-5870-20 |

## ACCESSORIES (OPTIONAL)

| | |
|---|---|
| Grinding cups | see page 113 |
| Bit Mandrels | 797-5348-XX** |

**23 = R23, 25 = R25, 28 = R28, 32 = R32, 33 = R33, 35 = R35, 38 = R28/T38, 45 = T45, 51 = T51, 58 = ST58, 60 = GT60, 68 = ST68
Example: Bit mandrel R32 = 797-5348-32

| | |
|---|---|
| Grinding gauge for button up to Ø 16 mm | 795-1396 |

## SPARE PART KITS

| | |
|---|---|
| Complete Grinding head (13000 r.p.m, including flushing head) | 797-5130/1 |
| All bearings, seals and screws for grinding head | 797-5463-05 |
| Outer Spindle (for Flushing head) | 797-5464-02 |
| Small kit for flushing head | 797-5464-44 |
| Big kit for flushing head | 797-5464-59 |

## RECOMMENDED LUBRICANTS

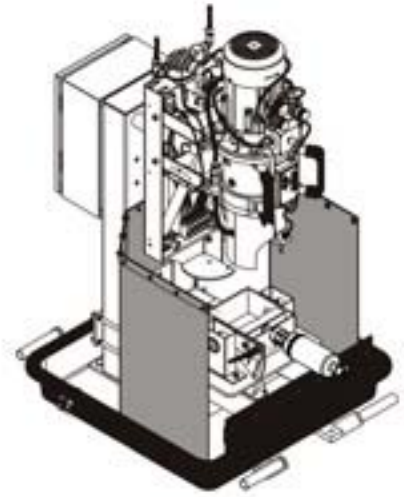
| | |
|---|---|
| Gear oil, 1 litre | 797-5870-15 |
| Air tool oil, 1 litre | 797-5870-90 |
| Grease, 0.42 kg cartridge | 797-5773-22 |

# BUTTON BIT GRINDER

RG440

## GRINDING APPLICATIONS

Stationary electrical grinder for workshops. Intended for all top hammer (TH) button bits. Bit holder suitable for Bits with diameters of up to Ø 102 mm: TH button bits (normal skirt) up to Ø 152 mm, TH button bits (retrac skirt) up to Ø 102 mm.



| TECHNICAL DATA | |
|---|---|
| Air Supply pressure | Max 10 bar/min 6 bar |
| Air consumption | 0.5 – 3 l/sec |
| Water Supply pressure | Max 8 bar/min 3 bar |
| Water consumption | 0.2 – 1 l/min |
| Coolant/flushing medium | Water |
| Rated power (motor) | 1.5 kW |
| Air connection, air hose | 9.5 mm (3/8") |
| Water connection, water hose | 9.5 mm (3/8") |
| Dimensions: H × W × D | 750 × 670 × 795 mm |
| Weight | 95 kg |

## PART. NO FOR MACHINES

| | |
|---|---|
| Grinder | 796-6000-XX* |
| Grinder with pump | 796-6050-XX* |
| Grinder with cover | 796-6005-XX* |
| Grinder with pump and cover | 796-6055-XX* |

*For two last digits, see table below, under "Code"

## VOLTAGE/PHASE ALT.

| Voltage | Phases | Hz | Code |
|---|---|---|---|
| 220 – 240 V | 1 | 50/60 Hz | 50 |
| 380 – 420 V | 3 | 50/60 Hz | 52 |
| 220 – 240 V | 3 | 50/60 Hz | 59 |
| 440 V | 3 | 60 Hz | 63 |

## ACCESSORIES (INCLUDED IN MACHINE DELIVERY)

| | |
|---|---|
| T38/R38 Bit Mandrel | 797-5348-38 |
| O-ring for Grinding cup | 797-5888-24 |
| Assembly tools for O-ring replacement | 797-5452 |
| Lock plate | 797-5502-39 |
| Spindle tool 9 mm | 797-5464-07 |
| Grease gun | 797-5870-20 |

## ACCESSORIES (OPTIONAL)

| | |
|---|---|
| Grinding cups | see page 113 |
| Bit Mandrels | 797-5348-XX** |

**23 = R23, 25 = R25, 28 = R28, 32 = R32, 33 = R33, 35 = R35, 38 = R28/T38, 45 = T45, 51 = T51, 58 = ST58, 60 = GT60, 68 = ST68

Example: Bit mandrel R32 = 797-5348-32

| | |
|---|---|
| Grinding gauge for button up to Ø 16 mm | 795-1396 |

## SPARE PART KITS

| | |
|---|---|
| Complete Grinding head (8000 r.p.m.) including flushing head non-lubrication | 797-5140/1 |
| All bearings, seals and screws for grinding head | 797-5463-05 |
| Outer Spindle (for flushing head) | 797-5464-02 |
| Small kit for flushing head | 797-5464-44[1] |
| | 797-5464-45[2] |
| Big kit for flushing head | 797-5464-59[1] |
| | 797-5464-60[2] |

1 = Non lubrication
2 = Lubrication

## RECOMMENDED LUBRICANTS

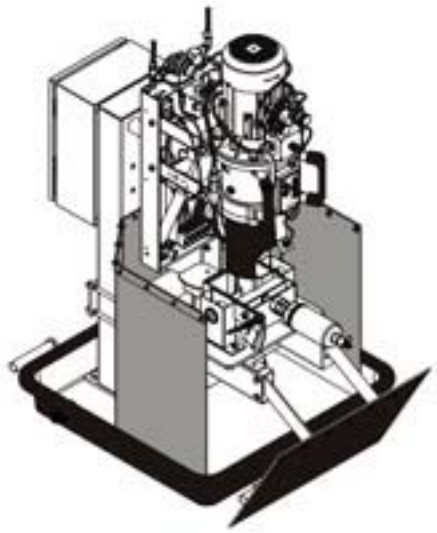
| | |
|---|---|
| Gear oil, 1 litre | 797-5870-15 |
| Air tool oil, 1 litre | 797-5870-90 |
| Grease, 0.42 kg cartridge | 797-5773-22 |

# BUTTON BIT GRINDER

RG460

## GRINDING APPLICATIONS

Stationary electrical grinder for workshops. Intended for all down the hole (DTH) button bits. Bit holder suitable for diameters up to Ø 92 mm: DTH button bits up to Ø 200 mm (max. shank Ø 92 mm and max. head length 105 mm).



| TECHNICAL DATA | |
|---|---|
| Air Supply pressure | Max 10 bar/min 6 bar |
| Air consumption | 0.5 – 3 l/sec |
| Water Supply pressure | Max 8 bar/min 3 bar |
| Water consumption | 0.2 – 1 l/min |
| Coolant/flushing medium | Water |
| Rated power (motor) | 1.5 kW |
| Air connection, air hose | 9.5 mm (3/8") |
| Water connection, water hose | 9.5 mm (3/8") |
| Dimensions: H × W × D | 990 × 670 × 795 mm |
| Weight | 95 kg |

## PART. NO FOR MACHINES

| | |
|---|---|
| Grinder | 796-6100-XX* |
| Grinder with pump | 796-6150-XX* |
| Grinder with cover | 796-6105-XX* |
| Grinder with pump and cover | 796-6155-XX* |

*For two last digits, see table below, under "Code"

## VOLTAGE/PHASE ALT.

| Voltage | Phases | Hz | Code |
|---|---|---|---|
| 220 – 240 V | 1 | 50/60 Hz | 50 |
| 380 – 420 V | 3 | 50/60 Hz | 52 |
| 220 – 240 V | 3 | 50/60 Hz | 59 |
| 440 V | 3 | 60 Hz | 63 |

## ACCESSORIES (INCLUDED IN MACHINE DELIVERY)

| | |
|---|---|
| T38/R38 Bit Mandrel | 797-5348-38 |
| O-ring for Grinding cup | 797-5888-24 |
| Assembly tools for O-ring replacement | 797-5452 |
| Lock plate | 797-5502-39 |
| Spindle tool 9 mm | 797-5464-07 |
| Grease gun | 797-5870-20 |
| Insert plate DTH, 3" | 797-5503-73 |
| Insert plate DTH, 4" | 797-5503-74 |
| Insert plate DTH, 5" | 797-5503-75 |
| Insert plate DTH, 6" | 797-5503-76 |

## ACCESSORIES (OPTIONAL)

| | |
|---|---|
| Grinding cups | see page 113 |
| Grinding gauge for button up to Ø 16 mm | 795-1396 |

## SPARE PART KITS

| | |
|---|---|
| Complete Grinding head (8000 r.p.m. including flushing head non-lubrication) | 797-5140/1 |
| All bearings, seals and screws for grinding head | 797-5463-05 |
| Outer Spindle (for flushing head) | 797-5464-02 |
| Small kit for flushing head | 797-5464-44[1] |
| | 797-5464-45[2] |
| Big kit for flushing head | 797-5464-59[1] |
| | 797-5464-60[2] |

1 = Non lubrication
2 = Lubrication

## RECOMMENDED LUBRICANTS

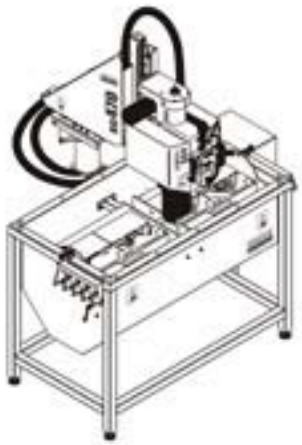
| | |
|---|---|
| Gear oil, 1 litre | 797-5870-15 |
| Air tool oil, 1 litre | 797-5870-90 |
| Grease, 0.42 kg cartridge | 797-5773-22 |

# BUTTON BIT GRINDER

RG470

## GRINDING APPLICATIONS

Highly efficient stationary electrical grinder for workshops. Intended for all button bits. Top Hammer (TH) bits Ø 28 mm (bit length > 65 mm) up to Ø 152 mm, and down the hole (DTH) bits Ø 90 mm up to Ø 270 mm.



**TECHNICAL DATA**

| | |
|---|---|
| Air Supply pressure | Max 10 bar/min 6 bar |
| Air consumption | 0.5 – 2 l/sec |
| Water Supply pressure | Max 8 bar/min 3.5 bar |
| Water consumption | 1 l/min |
| Coolant/flushing medium | Water |
| Rated power (grinding motor) | 3 kW |
| Air connection, air hose | 9.5 mm (3/8") |
| Water connection, water hose | 9.5 mm (3/8") |
| Dimensions: H × W × D | 2000 × 1600 × 1100 mm |
| Weight | 320 kg |

## PART. NO FOR MACHINES

| | |
|---|---|
| Grinder | 796-6700-XX* |

*For two last digits, see table below, under "Code".
Note! Drill Bit suppot are not included in grinder.
Parts must be ordered separately.

## VOLTAGE/PHASE ALT.

| Voltage | Phases | Hz | Code |
|---|---|---|---|
| 380 – 420 V | 3 | 50/60 Hz | 52 |
| 220 – 240 V | 3 | 50/60 Hz | 59 |

## ACCESSORIES (INCLUDED IN MACHINE DELIVERY)

| | |
|---|---|
| O-ring for Grinding cup | 797-5888-24 |
| Assembly tools for O-ring replacement | 797-5452 |
| Spindle tool 9 mm | 797-5464-17 |
| Grease gun | 797-5870-07 |

## ACCESSORIES (NOT INCLUDED, TO BE ORDERED SEPARATELY)

| | |
|---|---|
| Drill Bit support, appr. skirt Ø = 30 – 75 mm | 797-5552-19* |
| Drill Bit support, appr. skirt Ø = 75 – 120 mm | 797-5552-14** |
| Drill Bit support, appr. skirt Ø = 120 – 150 mm | 797-5552-25*** |

## ACCESSORIES (OPTIONAL)

| | |
|---|---|
| Grinding cups | see page 113 |
| Grinding gauge for button up to Ø 16 mm | 795-1396 |

## SPARE PART KITS

| | |
|---|---|
| Outer Spindle (for flushing head) | 797-5464-02 |
| Small kit for flushing head | 797-5464-44[1] |
| | 797-5464-45[2] |
| Big kit for flushing head | 797-5464-59[1] |
| | 797-5464-60[2] |

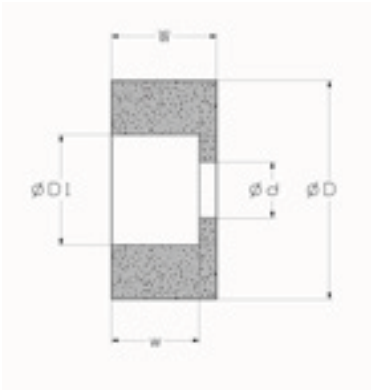
1 = Non lubrication
2 = Lubrication

## RECOMMENDED LUBRICANTS

| | |
|---|---|
| Air tool oil, 1 litre | 797-5870-90 |
| Grease, 0.42 kg cartridge | 797-5773-22 |

# GRINDING WHEELS

## GRINDING WHEELS FOR RG100P, RG100H, RG120P AND RG120E



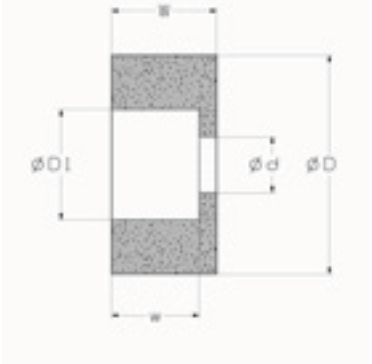

**GRINDING WHEEL FOR RG100**

| D | W | d | D1 | w | COMMENT | PART.NO |
|---|---|---|---|---|---|---|
| 127 | 63 | 32 | 80 | 50 | dry or wet grinding | 797-1227-15 |
| 127 | 63 | 32 | 80 | 50 | wet grinding | 797-1227-10 |

**GRINDING WHEEL FOR RG120**

| D | W | d | D1 | w | Comment | part.no |
|---|---|---|---|---|---|---|
| 150 | 83 | 63.5 | 100 | 64 | wet grinding | 797-1252-10 |

## GRINDING WHEELS FOR SECOROC: JUNIOR AND SENIOR, ATLAS COPCO: TEROC 1500/1501




**SECOROC: JUNIOR AND SENIOR, ATLAS COPCO: TEROC 1500/1501**

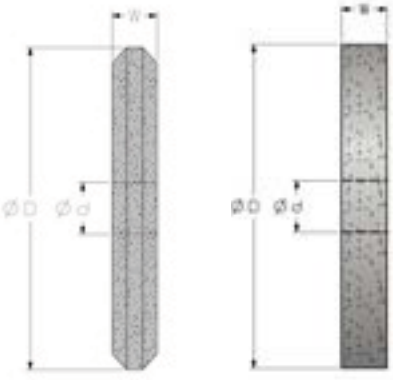
| D | W | d | D1 | w | COMMENT | PART.NO |
|---|---|---|---|---|---|---|
| 200 | 102 | 32 | 150 | 80 | wet grinding | 797-1250-10 |

# GRINDING WHEELS

## GRINDING WHEELS FOR RG300, RG320, RG340 AND RG360

| BIT INSERT ANGLE | BIT Ø, MM | WHEEL ANGLE | D | W | d | COMMENT | PART.NO |
|---|---|---|---|---|---|---|---|
| 90°, Cross bits | 33–35 | 132° | 300 | 23 | 32 | wet grinding | 797-1190-23 |
| 90°, Cross bits | 43–45 | 132° | 300 | 29 | 32 | wet grinding | 797-1190-29 |
| 90°, Cross bits | 48–51 | 132° | 300 | 32 | 32 | wet grinding | 797-1190-32 |

## GRINDING WHEELS FOR RG140



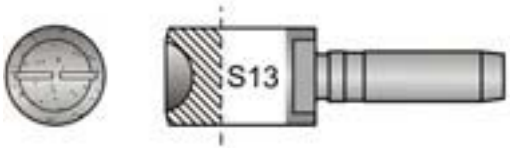
| BIT INSERT ANGLE | BIT Ø, MM | WHEEL ANGLE | D | W | d | COMMENT | PART.NO |
|---|---|---|---|---|---|---|---|
| 90°, Cross bits | 33–39 | 132° | 200 | 25 | 32 | dry grinding | 797-1101-25 |
| 90°, Cross bits | 33–43 | 132° | 200 | 28 | 32 | dry grinding | 797-1185-28 |
| Straight wheel for gauge grinding | | | 200 | 32 | 32 | dry grinding | 797-1101-32 |

# GRINDING CUPS

## GRINDING CUPS FOR RG400, RG410, RG420, RG440, RG460 AND RG470 GRINDERS

### SANCUP SUPER (S)

Grinding cups for redressing spherical (and super-spherical) buttons. Shank Ø 9 mm.



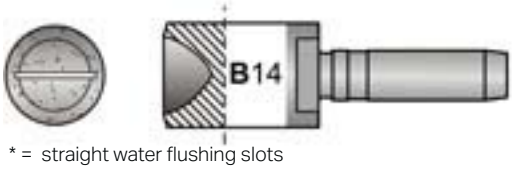

* = straight water flushing slots

** = three water flushing slots

| FOR BUTTON SIZE | PART. NO |
|---|---|
| 7 mm | 797-5400-07* |
| 8 mm | 797-5400-08* |
| 9 mm | 797-5400-09* |
| 10 mm | 797-5400-10* |
| 11 mm | 797-5400-11* |
| 12 mm | 797-5400-12** |
| 13 mm | 797-5400-13** |
| 14 mm | 797-5400-14** |
| 16 mm | 797-5400-16** |
| 18 mm | 797-5400-18** |

### SANCUP SUPER (B)

Grinding cups for redressing ballistic (and semi-ballistic and Robust-ballistic) buttons. Shank Ø 9 mm.



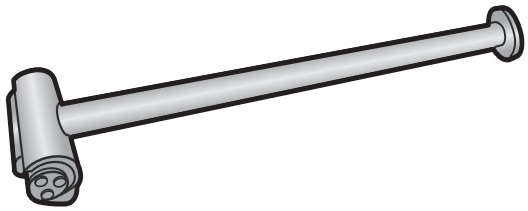

* = straight water flushing slots

** = three water flushing slots

| FOR BUTTON SIZE | PART. NO |
|---|---|
| 7 mm | 797-5295-07* |
| 8 mm | 797-5295-08* |
| 9 mm | 797-5295-09* |
| 10 mm | 797-5295-10* |
| 11 mm | 797-5295-11** |
| 12 mm | 797-5295-12** |
| 13 mm | 797-5295-13** |
| 14 mm | 797-5295-14** |
| 16 mm | 797-5295-16** |
| 18 mm | 797-5295-18** |

# GRINDING ACCESSORIES

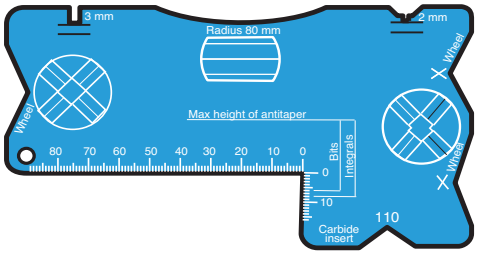
## WHEEL DRESSER



[1] Included in a complete unit.

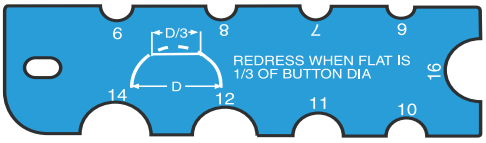
| DESCRIPTION | PART. NO |
|---|---|
| Wheel dresser, complete | 796-1858 |
| Shaft (1 pcs)[1] | 796-1862 |
| Bearing bushing (2 pcs)[1] | 796-1863 |
| Screw (6 pcs)[1] | 796-1865 |
| Cover (2 pcs)[1] | 796-1866 |
| 1 set of dresser rollers[1] | 796-1867 |

## GRINDING TEMPLATES




For integrals with cross bit/For cross and X-bits with diameter up to 115 mm/For integrals with chisel bit and motor drill steels.

| DESCRIPTION | PART. NO |
|---|---|
| Grinding template | 795-1343 |




For buttons up to 16 mm.

| DESCRIPTION | PART. NO |
|---|---|
| Grinding template | 795-1396 |

# IMPORTANT HEALTH AND SAFETY INFORMATION

## MATERIAL COMPOSITION

Most hardmetal products contain tungsten carbide and cobalt.

## ROUTES OF EXPOSURE

Grinding or heating hardmetal blanks or hardmetal products will produce dust or fumes with dangerous ingredients that can be inhaled or swallowed, or which might 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 people 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.

Cobalt is a potent skin sensitizer. Repeated or prolonged contact can cause sensitization.

## CLASSIFICATION

- Following hazard classification according to GHS/CLP applies to the hardmetal powder (3 % ≤ Co < 10 %):
- Acute Inhalation 3, H331: Toxic if inhaled.
- Carcinogenicity 1B, H350i, May cause cancer by inhalation.
- Repr. 2, H361f; Suspected of damaging fertility.
- STOT RE 1, H372: Causes damage to lungs through prolonged or repeated exposure through 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.
- 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 the dust.
- Wear protective gloves/protective clothing/eye protection.
- In case of inadequate ventilation, wear respiratory protection.
- Avoid release into the environment.

**IF INHALED:** If breathing is difficult, remove the victim to fresh air and keep them at rest in a position comfortable for breathing. If they are experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

# BIT CLASSIFICATION – SYMBOL EXPLANATION

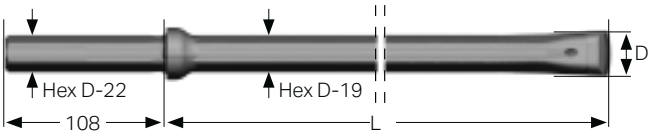

1. These bits are designed to give maximum penetration rate. They tend to work best in soft to medium hard (up to 150 MPa) and non-abrasive rock formations.

3. These bits offer a balance between penetration rate and bit service life. They will give fast drilling speed, while still delivering a good rock tools economy in a wide range of rock Conditions.

5. These bits are optimized towards giving best possible rock tools economy through a long service life. This is especially true and important in hard and abrasive rock formations (above 20% silica).

# CODE KEY INTEGRAL DRILL STEELS

7XX – YYZZ – QQ




| MAIN CODE 7XX | SUB CODE YYZZ | 3:RD CODE GROUP QQ |
|---|---|---|
| 714 = 22×108 shank, Hex 22 chisel | YY = effective length in dm<br>ZZ = bit diameter in mm | 50 = insert height 17 mm<br>65 = insert height 19 mm |
| 724 = 19×108 shank, Hex 19 chisel | YY = effective length in dm<br>ZZ = bit diameter in mm | |
| 728 = 22×108 shank, Hex 19 chisel | YY = effective length in dm<br>ZZ = bit diameter in mm | |

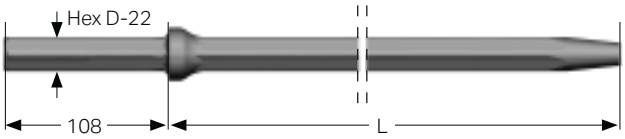
# CODE KEY TAPERED BITS

7XXX – YYZZ – QQ

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

# CODE KEY TAPERED RODS

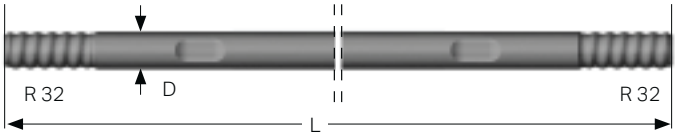
7XXX – YYZZ - QQ




| MAIN CODE 7XXX | SUB CODE YYZZ | 3:RD CODE GROUP QQ |
|---|---|---|
| 7870 = 12 deg | YY = 11 HF hardened, Sanbar 20 | 11 = no packing |
| 7876 = 11 deg | YY = 51 HF hardened, Sanbar 61 | |
| 7888 = 7 deg | YY = 61 Carburized, Sanbar 64 | |
| | ZZ = approximate length in dm | |

# CODE KEY EXTENSION RODS

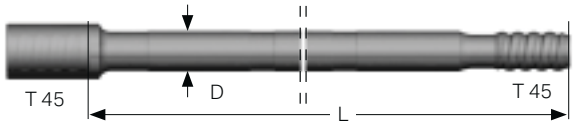
7XXX – YYZZ - QQ




| MAIN CODE 7XXX | SUB CODE YYZZ | 3:RD CODE GROUP QQ |
|---|---|---|
| 7851 = R22 | YY = 13 Hex 22 | 20 = Carburized |
| 7852 = R25 | YY = 23 Hex 25 | 30 = HF-hardened |
| 7853 = R32 | YY = 33 Round 33 | |
| 7854 = R38 | YY = 43 Round 39 | |
| 7857 = R23 | ZZ = approximate length in dm | |
| | | |
| 7324 = T38 | YY = 43 Round 39 | 20 = Carburized |
| 7325 = T45 | YY = 73 Round 46 | 30 = HF-hardened |
| 7326 = T51 | YY = 53 Round 52 | |
| | ZZ = approximate length in dm | |

# CODE KEY MF RODS

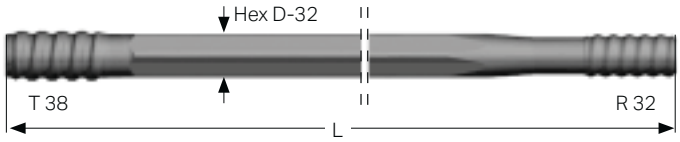
7XXX – YYZZ - QQ




| MAIN CODE 7XXX | SUB CODE YYZZ | 3:RD CODE GROUP QQ |
|---|---|---|
| 7853 = R32 | YY = 48 Hex 22 | 20 = Carburized |
| 7857 = R23 | YY = 51 Round 32 | |
| | ZZ = approximate length in dm | |
| | | |
| 7324 = T38 | YY = 47 Round 39 | 20 = Carburized |
| 7325 = T45 | YY = 77 Round 46 | 70 = Sandvik Tough |
| 7326 = T51 | YY = 55 Round 52 | |
| 7327 = T35 | YY = 11 Round 60 | |
| 7610 = GT60 | YY = 14 Round 60, for 92 mm bits | |
| | ZZ = approximate length in dm | |

# CODE KEY DRIFTER RODS

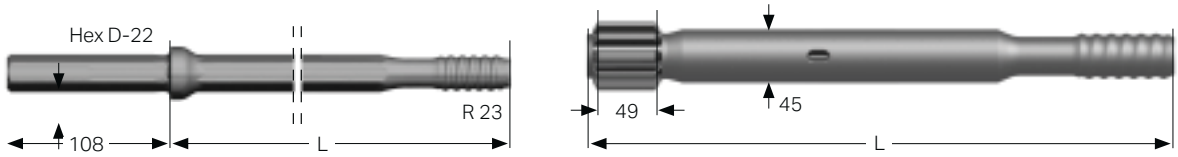
7XXX – YYZZ - Q




| MAIN CODE 7XXX | SUBCODE YY<br>ZZ = approximate length in dm | | | 3:RD CODE GROUP Q |
|---|---|---|---|---|
| | Code | Steel Section | Bit thread | |
| 7853 = R32 shank end | 24 | Hex 25 | R25 | 20 = Carburized |
| 7854 = R38 shank end | 30 | Hex 28 | R25 | |
| 7324 = T38 shank end | 76 | Hex 28 | R28 | |
| 7327 = T35 shank end | 87 | Hex 32 | R28 | |
| | 65 | MF-drifter Hex 35 | R32 | |
| | 86 | Hex 32 | R32 | |
| | 96 | Hex 35 | R32 | |
| | 67 | Hex 35 | α330 | |
| | 70 | Round 39 | α330 | |
| | 72 | Round 39 | R35 | |
| | 85 | Hex 35 | R35 | |
| | 52 | MF-drifter Round 39 | R35 | |

# CODE KEY SHANK RODS AND SHANK ADAPTERS

## 7XXX – YYZZ – QQ




| MAIN CODE 7XXX | SUB CODE YYZZ | 3:RD CODE GROUP QQ |
|---|---|---|
| 7801 = R22 | Shank rods: | Shank rods: |
| 7802 = R25 | YY = 61 Hex 22 | 11 = shank H22×108, no packing |
| 7803 = R32 | YY = 71 Hex 25 | 21 = shank H25×159, no packing |
| 7804 = R38 | ZZ = approximate length in dm | 30 = shank H25×108, no packing |
| 7807 = R23 | | |
| 7814 = α250 | | Shank adapters: |
| 7304 = T38 | | 01, 02, 03, 05 = separate flushing |
| 7305 = T45 | | 19 = 19 mm packing |
| 7306 = T51 | | 23 = 23 mm packing |
| 7307 = T35 | | 30 = 10 mm packing |
| 7328 = ST58 | | 40 = 11 mm packing |
| 7329 = ST68 | | 50 = 12,7 mm packing |
| 7600 = GT60 | | 60/61 = 14 mm packing |
| | | 80 = 16 mm packing |

# CODE KEY DRIFTER BITS

## 7XXX - YYZZ – (Q) QQ

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

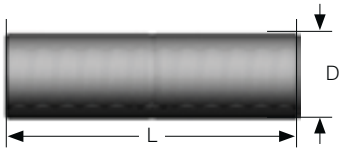
# CODE KEY BIG THREADED BITS

7XXX – YYZZ – (Q) QQ

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

# CODE KEY COUPLINGS

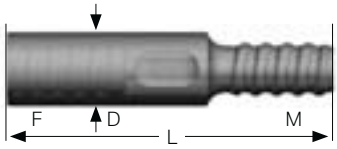
7XXX – YYZZ




| MAIN CODE 7XXX | SUB CODE YYZZ |
|---|---|
| 7991 = R22 | YY = 04 R28 adapter thread |
| 7992 = R25 | YY = 20 Tough hardened, same thread both ends |
| 7993 = R32 | YY = 24 R25 adapter thread |
| 7994 = R38 | YY = 33 Tough hardened, same thread both ends |
| 7314 = T38 | YY = 34/35 R32 adapter thread |
| 7315 = T45 | YY = 36 Carburized, same thread both ends |
| 7316 = T51 | YY = 44 R38 adapter thread |
| 7317 = T35 | 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 | YY = 33 R32 external thread |
| 7833 = R32 internal thread | YY = 43 R38 external thread |
| 7834 = R38 internal thread | YY = 44 T38 external thread |
| 7837 = R23 internal thread | YY = 54 T45 external thread |
| 7839 = R28 internal thread | YY = 64 T51 external thread |
| 7334 = T38 internal thread | |
| 7335 = T45 internal thread | |
| 7336 = T51 internal thread | |
| 7337 = T35 internal thread | |

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| 7854-8637-20 | 24 | 40 |
| 7854-8643-20 | 27 | 40 |
| 7854-8649-20 | 31 | 40 |
| 7854-9631-20 | 24 | 40 |
| 7854-9637-20 | 28 | 40 |
| 7854-9643-20 | 34 | 40 |
| 7854-9649-20 | 37 | 40 |
| 7854-9655-20 | 42 | 40 |
| 7857-4821-20 | 6.4 | 31 |
| 7857-4831-20 | 10 | 31 |
| 7870-1140-11 | 13 | 27 |
| 7870-1144-11 | 14 | 27 |
| 7870-1148-11 | 15 | 27 |
| 7870-1156-11 | 18 | 27 |
| 7870-1164-11 | 20 | 27 |
| 7870-1172-11 | 23 | 27 |
| 7870-1180-11 | 25 | 27 |
| 7870-1188-11 | 27 | 27 |
| 7870-5124-11 | 7.9 | 27 |
| 7870-5132-11 | 10 | 27 |
| 7870-6106-11 | 2.2 | 27 |
| 7870-6112-11 | 4.1 | 27 |
| 7870-6118-11 | 6.0 | 27 |
| 7870-6120-11 | 6.5 | 27 |
| 7870-6124-11 | 8.0 | 27 |
| 7870-6131-11 | 9.5 | 27 |
| 7870-6132-11 | 10 | 27 |
| 7870-6137-11 | 11 | 27 |
| 7876-6106-11 | 2.2 | 28 |
| 7876-6108-11 | 2.7 | 28 |
| 7876-6112-11 | 4.1 | 28 |
| 7876-6116-11 | 5.0 | 28 |
| 7876-6118-11 | 5.9 | 28 |
| 7876-6120-11 | 6.4 | 28 |
| 7876-6124-11 | 8.0 | 28 |
| 7876-6131-11 | 9.6 | 28 |
| 7876-6136-11 | 11 | 28 |
| 7888-6124-11 | 7.6 | 29 |
| 7888-6132-11 | 10 | 29 |
| 795-1343 | 0.02 | 114 |
| 795-1396 | 0.01 | 114 |
| 795-1604A | 1.9 | 97 |
| 795-1605 | 3.9 | 97 |
| 795-1606 | 0.6 | 97 |
| 795-1607A | 3.9 | 97 |
| 795-1608 | 6.0 | 97 |
| 795-1609A | 8.4 | 97 |
| 795-1613 | 1.7 | 97 |
| 795-1676 | 0.9 | 97 |
| 795-1681 | 1.5 | 97 |

| Partno. | Weight (kg) | Page |
|---|---|---|
| 795-1690 | 2.0 | 97 |
| 795-1699 | 4.9 | 97 |
| 795-1960 | 4.9 | 97 |
| 795-1961 | 18 | 97 |
| 795-1962 | 0.6 | 97 |
| 795-1963 | 18 | 97 |
| 795-1964 | 240 | 97 |
| 795-2600 | 6.6 | 97 |
| 795-2601 | 10 | 97 |
| 795-2604 | 10 | 97 |
| 7953-4618-20 | 16 | 53, 67 |
| 7955-5618-20 | 24 | 70 |
| 7955-5637-20 | 48 | 56 |
| 7956-6318-21 | 24 | 72 |
| 7956-6337-70 | 46 | 58 |
| 7956-7637-70 | 78 | 58 |
| 7957-7618-20 | 40 | 74 |
| 7957-7637-70 | 76 | 60 |
| 7957-8737-70 | 89 | 60 |
| 796-1858 | 1.6 | 114 |
| 796-1862 | 0.05 | 114 |
| 796-1863 | 0.02 | 114 |
| 796-1865 | 0.2 | 114 |
| 796-1866 | 1.0 | 114 |
| 796-1867 | 0.3 | 114 |
| 797-1101-25 | 1.4 | 112 |
| 797-1101-32 | 1.7 | 112 |
| 797-1185-28 | 1.6 | 112 |
| 797-1190-23 | 3.3 | 112 |
| 797-1190-29 | 4.1 | 112 |
| 797-1190-32 | 4.5 | 112 |
| 797-1227-10 | 1.1 | 111 |
| 797-1227-15 | 1.0 | 111 |
| 797-1250-10 | 3.4 | 111 |
| 797-1252-10 | 1.8 | 111 |
| 797-5295-07 | 0.04 | 113 |
| 797-5295-08 | 0.04 | 113 |
| 797-5295-09 | 0.1 | 113 |
| 797-5295-10 | 0.1 | 113 |
| 797-5295-11 | 0.1 | 113 |
| 797-5295-12 | 0.1 | 113 |
| 797-5295-13 | 0.1 | 113 |
| 797-5295-14 | 0.1 | 113 |
| 797-5295-16 | 0.1 | 113 |
| 797-5295-18 | 0.1 | 113 |
| 797-5400-07 | 0.04 | 113 |
| 797-5400-08 | 0.04 | 113 |
| 797-5400-09 | 0.1 | 113 |
| 797-5400-10 | 0.1 | 113 |
| 797-5400-11 | 0.1 | 113 |
| 797-5400-12 | 0.1 | 113 |
| 797-5400-13 | 0.1 | 113 |

| Partno. | Weight (kg) | Page |
|---|---|---|
| 797-5400-14 | 0.1 | 113 |
| 797-5400-16 | 0.1 | 113 |
| 797-5400-18 | 0.1 | 113 |
| 7985-6315-26 | 28 | 75 |
| 7985-6318-26 | 32 | 75 |
| 7991-3331 | 0.4 | 30 |
| 7992-3335 | 0.7 | 33 |
| 7993-3644 | 0.9 | 36, 38, 53, 67 |
| 7994-3655 | 1.7 | 40 |

# NOTES

# NOTES

# NOTES