

Sandvik TOYO Rock drills

Product catalogue

Products from Sandvik Mining and Construction Tools



Sandvik TOYO Rock drills

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TY16 Hand drill

TY16 is light-weight and easy to handle. It is a very effective unit for drilling of narrow faces, in poor footing ground, or for secondary drilling and other light jobs. Although a portable machine, its drilling speed is high and the drill excels in durability and stability.

Operator friendly

TY16 can be effortlessly used, because of its light weight. It is well-balanced and produces little recoil. The operator is able to enjoy high-speed stabilized drilling for many hours with a minimum of fatigue.

High efficiency

Since a tubular valve of high air efficiency is used, the rock drill, though compact in size, performs with excellent impact, torque and drilling speed.

Excellent durability

The piston and the rifle bar which are subject to severe work-load are heat treated to minimize wear and to extend service life, and the rifle nut is made of high-quality phosphor bronze. The drill is available for two different shank lengths, 83 mm and 108 mm.



Technical specifications for TY16								
Shank	Water flushing	Air flushing	Weight (kg)	Length overall (mm)	Piston stroke (mm)	Piston Dia (mm)	Air cons. m ³ /min at 5 bar	Part No.
22x83	-	x	17	559	55	60	2.1	780600320C
22x108	-	x	17	580	55	60	2.1	780600321C



Vibration absorption assembly	
For TY16	Part No.
Compl. kit (handle grip not incl.)	78060071000

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TY24 Hand drill

TY24 is an economical rock drill with powerful torque and percussive forces, and it is designed for long hole drilling. Its powerful torque and percussion, generated by the long stroke mechanism and the high efficiency tubular valve, enable a superb performance for drilling down to about 6 m and is making the drill efficient in hard rock. The design of TY24 makes it drill fast and efficient and the machine is also durable and easy to handle.

Powerful drilling

The powerful combination of percussion and rotation originates in the very efficient tubular valve. TY24 is also equipped with a powerful flushing mechanism which enables efficient removal of cuttings also when drilling deep holes.

High durability

The external parts have a sturdy design, and the internal parts, subjected to severe working conditions, are either heat treated or chromium plated and all components are precisely finished. The drills complete lubricating system assures trouble-free and economical operation.

Easy operation

Perfection of balance and convenient portability have been main concerns in the desi



Technical specifications for TY24								
Shank	Water flushing	Air flushing	Weight (kg)	Length overall (mm)	Piston stroke (mm)	Piston Dia (mm)	Air cons. m ³ /min at 5 bar	Part No.
22x108	-	x	24	610	68	66,7	2,7	782000321H



Vibration absorption assembly	
For TY24	Part No.
Compl. kit (handle grip not incl.)	7820086000

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TY62 Hand drill

TY62 is the smallest and lightest of all Toyo rock drills, weighing only 13kg. It is easy to operate and useful for many kinds of jobs, such as drilling in confined spaces, for secondary drilling in quarries, or for any light duty construction work. Despite its small body, it has all the functions required of a rock drill. It is highly reputed for its excellent durability, convenience and economy.

High efficiency

TY62 demonstrates a drilling efficiency unusual for a small-sized drill, due to its large piston diameter and short piston stroke. It combines high-speed drilling and low air consumption incorporating a well-matched valve of direct flow type. A small-sized compressor is sufficient to operate TY62.

Excellent durability

All parts of TY62 are designed to assure a long life of the drill. The piston and other parts which are subjected to heavy wear are plated with hard chrome; the front washer bushing, the rifle nut and other meshing parts are made of phosphor bronze and are easily replaceable. These design features greatly reduce the maintenance cost of the rock drill and prevent drop in its performance even during long time of operation.

Operator friendly

TY62 has a number of design features to minimize operator fatigue; a synthetic rubber exhaust deflector, a simple system for changing the air discharge direction, and a light-weight body.



Technical specifications for TY62								
Shank	Water flushing	Air flushing	Weight (kg)	Length overall (mm)	Piston stroke (mm)	Piston Dia (mm)	Air cons. m ³ /min at 5 bar	Part No.
19x83	-	x	13	495	37	62	1.9	780200626A
22x83	-	x	13	495	37	62	1.9	780200320A
22x108	-	x	13	495	37	62	1.9	780200321A



Vibration absorption assembly	
For TY62	Part No.
Compl. kit (handle grip not incl.)	7802062000

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TY24 Leg drill

Unlike conventional leg drills designed primarily for maximum drilling speed, the TY24 features a sound balance between the leg and the drill. This ensures stabilized operation through a wide range of drilling angles. Moreover, the leg absorbs the drill vibrations so effectively that the operator can use it for many hours of speedy drilling operation without excessive fatigue. Another feature is the concentration of all controls on the back head of the drill. This enables the operator to control the drill quickly and easily. The leg is as light-weight as it can be.

Perfect leg-drill balance

The drill recoil is absorbed by the leg owing to the integral design of the leg and drill and consideration has been given to constantly produce full power.

Performance equal to air flushing

The automatic water-feed device and the constant impact and lubricating mechanisms serve to give the same performance as a comparable drill with air flushing.

Adaptable to long-hole drilling

Long-hole drilling is possible with TY24's powerful impact mechanism and strong rotating force, and it is equally efficient in drilling also of small-diameter holes.

Automatic water-feed device

Water is instantly fed automatically as soon as the drill is started by working the throttle valve handle, and is automatically stopped when the drill operation ceases. Powerful blows can be effected by means of the same handle.



Technical specifications for TY24

Shank	Water flushing	Air flushing	Weight (kg)	Length overall (mm)	Piston stroke (mm)	Piston Dia (mm)	Air cons. m ³ /min at 5 bar	Part No.
22x108	x	-	26	66	68	66.7	2.7	782500221H



Technical specifications for XSL30 Support leg

Weight (kg)	Length (mm)	Length (mm, extended)	Feed length (mm)	Feed cylinder Dia (mm)	Part No.
12	1395	2360	965	57	782590000A

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TY85 Leg drill

TY85 is a middle-weight leg drill. It has many outstanding features not available on similar sized leg drills.

Outstanding penetration rate

Although a middle-weight machine, the penetration rate of TY85 is high, even compared to heavy-weight class leg drills. The direct flow system in the valve makes air efficiency excellent. The 85mm diameter piston and the 60mm short stroke length provide percussion and torque surpassing other leg drills in its class. The design assures high speed drilling in all types of rock formations.

Easy handling

The perfect balance between the drill and the leg minimizes recoil and ensures stable drilling in any position. Even the

slightest vibration is absorbed by the vibration-proof handle. Noise strain is greatly reduced with the synthetic rubber exhaust deflector. The design enables the operator to continuously drill for longer periods with a minimum of fatigue.

Long Service Life

Many new techniques are incorporated, both mechanically and materially, for greater durability and less wear of the different machine parts. The life of the components is greatly extended by using a full-lubrication system. The rifle bar and the piston, which are subjected to heavy work load, are specially heat treated to minimize wear and extend service life. The rifle nut, the front washer bushing and the sleeve nut that engages with them are made of high-quality phosphor bronze.



Technical specifications for TY85

Shank	Water flushing	Air flushing	Weight (kg)	Length overall (mm)	Piston stroke (mm)	Piston Dia (mm)	Air cons. m ³ /min at 5 bar	Part No.
22x108	x	-	27	615	60	85	3.5	782800221C



Technical specifications for XSL50 Support leg

Weight (kg)	Length (mm)	Length (mm, extended)	Feed length (mm)	Feed cylinder Dia (mm)	Part No.
13	1530	2530	1000	65	782892000B

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TY85M Feed drill

TY85M is a stripped version of the middle-weight rock drill TY85, and is intended for mounting on a feed for block cutting in dimensional stone quarries. TY85M has the same features as TY85. The difference is that the control components for percussion, rotation and flushing are removed since the rock drill is supposed to be controlled from a rig.

Outstanding penetration rate

Although a middle-weight machine, the penetration rate of TY85M is high, even compared to heavy-weight drills. The direct flow system in the valve makes air efficiency excellent. The 85mm diameter piston and the 60mm short stroke length provide percussion and torque surpassing other rock drills in its class. The design assures high speed drilling in all types of rock formations.

Long Service Life

Many new techniques are incorporated, both mechanically and materially, for greater durability and less wear of the different machine parts. The life of the components is greatly extended by using a full-lubrication system. The rifle bar and the piston, which are subjected to heavy work load, are specially heat treated to minimize wear and extend service life. The rifle nut, the front washer bushing and the sleeve nut that engages with them are made of high-quality phosphor bronze.



Technical specifications for TY85M								
Shank	Water flushing	Air flushing	Weight (kg)	Length overall (mm)	Piston stroke (mm)	Piston Dia (mm)	Air cons. m ³ /min at 5 bar	Part No.
22x108	-	x	25	533	60	85	3.5	782800961D

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TY280 Leg drill

TY280 with its high drilling performance is most suited for quick drilling operations. Its powerful percussion and torque ensure a fast drilling speed in any rock formation. All internal parts are wear protected and highly durable which in turn results in low spare parts cost and enables the drill to maintain its high performance for a long period of time. The drill and the leg are well balanced which gives a stable operation with a minimum of recoil. TY280 operates with a high drilling speed and minimizes the operator's fatigue and the cost of drilling.

High drilling speed

TY280 has a piston diameter of 76.2mm (3") and a tubular valve with high air efficiency. The drill with its strong percussion and torque is performing at its best in hard rock when drilling semi-long holes.

Ease of operation

A good balance between the rock drill and the leg ensures a stabilized operation with a minimum of recoil. The exhaust deflector can be oriented in any direction to keep the exhaust air out of the way of the operator.

Durability and continuous high performance

The external parts of the drill are made of special steel of high rigidity and surface hardness, and the hard working internal parts are lubricated via a full-lubrication system. The long service life of the different parts is resulting in low maintenance and spare parts costs.

Light support leg providing stable feed pressure

The XSL40L Support Leg is designed to ideally match with TY280 making the drill to fully display its performance. Made of super duralumin, the leg is light in weight and very easy to handle. This leg is very convenient for drilling at high positions and for drilling with a long drill steel.



Technical specifications for TY280

Shank	Water flushing	Air flushing	Weight (kg)	Length overall (mm)	Piston stroke (mm)	Piston Dia (mm)	Air cons. m ³ /min at 5 bar	Part No.
22x108	x	-	31	675	68	76.2	3.5	783100902E



Technical specifications for XSL40L Support leg

Weight (kg)	Length (mm)	Length (mm, extended)	Feed length (mm)	Feed cylinder Dia (mm)	Part No.
15.2	1750	2960	1210	62	782790600B


Rock drilling tools


H22 (7/8") Integral drill steels


	Dimensions D						Part No.
	Series	L mm	ft	in	D mm	in	
Shank 22x108 mm (7/8" x 4 1/4")							
	11	800	2'	7"	34	1 11/32"	714-0834-65
		1600	5'	3"	33	1 19/64"	714-1633-65
		2400	7'	10"	32	1 1/4"	714-2432-65
		3200	10'	6"	31	1 7/32"	714-3231
		4000	13'	1"	30	1 3/16"	714-4030
		4800	15'	9"	29	1 9/64"	714-4829
		5600	18'	4"	28	1 7/64"	714-5628-50
		6400	21'	–	27	1 1/16"	714-6427-50
		7200	23'	8"	26	1 1/32"	714-7226-50
		12	800	2'	7"	40	1 37/64"
		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


Rock drilling tools

H22 Tapered tools, 12° taper

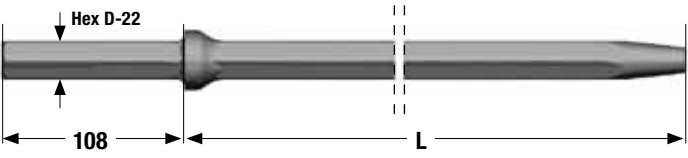
Bits	Flushinghole, mm		Buttons, mm		Angle	Dimensions D		Part No.
	Front No Size	Gauge No Size	Front No Size	Gauge No Size		mm	in	
Button bit								
	1x5	1x5	1x7	4x7	35°	28	1 1/8"	7795-6428-B48
	1x5	1x5	1x7	4x7	35°	30	1 3/16"	7795-6430-B48

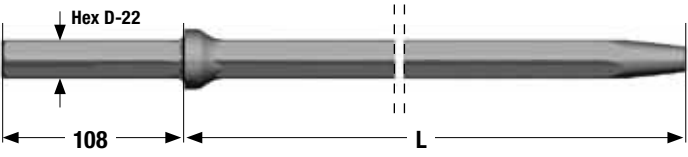
Button bit								
	2x4	1x4	2x7	5x7	40°	32	1 1/4"	7795-5232-B48
	2x4	1x3,5	2x7	5x8	40°	35	1 3/8"	7795-5235-B48
	2x4	1x4	2x7	5x9	40°	38	1 1/2"	7795-5238-B48

Button bit								
	2x4	1x3.5	2x7	5x7	40°	33	1 9/64"	7770-5233-B48
	2x4	1x3.5	2x7	5x8	40°	35	1 3/8"	7770-5235-B48

Cross bit								
	1x4	2x4	–	–	–	30	1 3/16"	7770-9030-42
	1x6	2x4.5	–	–	–	32	1 1/4"	7770-9032-42
	1x6	2x4.5	–	–	–	35	1 3/8"	7770-9035-42


Rods	Dimensions D					Part No.
	L mm	ft	in	Hex D mm	in	


Tapered rod, shank 22x108, carburized						
	610	2'	–	22	7/8"	7870-6106-11
	1220	4'	–	22	7/8"	7870-6112-11
	1830	6'	–	22	7/8"	7870-6118-11
	2000	6'	7"	22	7/8"	7870-6120-11
	2440	8'	–	22	7/8"	7870-6124-11
	3050	10'	–	22	7/8"	7870-6131-11
	3200	10'	6"	22	7/8"	7870-6132-11
3660	12'	–	22	7/8"	7870-6137-11	

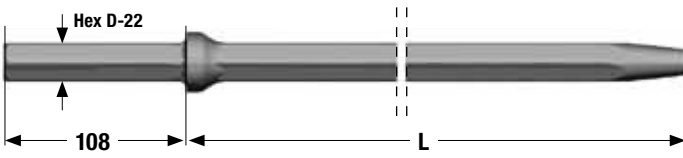
Tapered rod, shank 22x108, HF-hardened - For surface drilling						
	2440	8'	–	22	7/8"	7870-5124-11
	3200	10'	6"	22	7/8"	7870-5132-11
	4000	13'	1 1/2"	22	7/8"	7870-1140-11
	4400	14'	5"	22	7/8"	7870-1144-11
	4800	15'	9"	22	7/8"	7870-1148-11
	5600	18'	4 1/2"	22	7/8"	7870-1156-11
	6400	21'	–	22	7/8"	7870-1164-11
	7200	23'	7 1/2"	22	7/8"	7870-1172-11
	8000	26'	3"	22	7/8"	7870-1180-11
	8800	28'	10 1/2"	22	7/8"	7870-1188-11

Rock drilling tools

H22 Tapered tools, 11° taper


Bits	Flushinghole, mm		Buttons, mm		Angle	Dimensions D		Part No.
	Front No Size	Gauge No Size	Front No Size	Gauge No Size		mm	in	
Button bit								
	1x6	2x4	2x7	3x8	35°	32	1 1/4"	7776-1932-B48
	1x6	1x6	1x8	3x9	40°	36	1 7/16"	7776-1936-B48
	1x6	1x6	2x8	3x9	40°	38	1 1/2"	7776-1938-B48
	1x6	1x6	2x8	3x9	40°	40	1 3/4"	7776-1940-B48

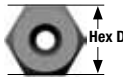
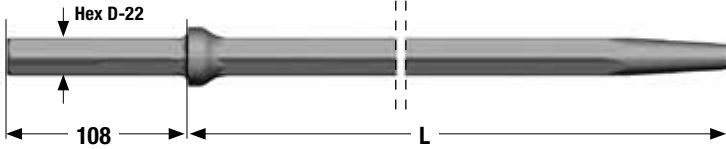
Button bit								
	1x4	1x6	2x7	5x7	40°	32	1 1/4"	7776-4432-B48
	1x5	1x5	2x7	5x7	35°	35	1 3/8"	7776-4435-B48
	1x6	1x5	2x7	5x8	35°	38	1 1/2"	7776-4438-B48
	1x6	1x5	2x8	5x9	35°	40	1 3/4"	7776-4440-B48

Rods	Dimensions D					Part No.
	L mm	ft	in	Hex D mm	in	
Tapered rod, shank 22x108, carburized						
	610	2'	–	22	7/8"	7876-6106-11
	800	2'	7 1/2"	22	7/8"	7876-6108-11
	1220	4'	–	22	7/8"	7876-6112-11
	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

Rock drilling tools

H22 Tapered tools, 7° taper

Bits	Flushinghole, mm		Buttons, mm		Angle	Dimensions D		Part No.
	Front No Size	Gauge No Size	Front No Size	Gauge No Size		mm	in	
Button bit								
	2x4	1x4	2x7	5x7	40°	32	1 1/4"	7788-5232-B48
	2x4	1x4	2x7	5x7	40°	33	1 9/64"	7788-5233-B48
	2x4	1x3.5	2x7	5x8	40°	35	1 3/8"	7788-5235-B48
	2x4	1x5	2x7	5x8	35°	38	1 1/2"	7788-5238-B48

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



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