

OEM History







PRODUCT CATALOGUE





Big Stone was established as the first manufacturer of pneumatic rock drill with a purpose of developing mining and tunnelling industry in 1980's in South Korea.

Thanks to faithful customers and partners for a long time, we have been able to keep developing the quality of our rock drills and services.

Moreover, we got an opportunity to be an original equipment manufacturer (OEM) for TOYO Japan, SAND-VIK Sweden, and FURUKAWA Japan, which means our products were qualified to pass European and Japanese quality and safety standard.

Since then, our rock drills have been supplied and used not only in Korea, but also over the world.

Let us have a chance to satisfy you with reliability, durability, and reasonable price of our rock drills.

HISTORY

Mar. 1986

Established with a name 'YungPoong Co., Ltd.(parent company of Big Stone)'. 322D model developed.

OEM business started with Furukawa, Japan.

Become official supplier of Korea Coal Organization: 322D

Feb. 1993

324D(TY24LD) model developed. OEM business started with TOYO, Japan. Become the exclusive supplier of pneumatic rock drill in entire South Korea.

Jan. 1996

Become a supplier of rock drill parts for Yamamoto, Japan.

Jan. 2001

Company name changed Big Stone Rock Drill Co., Ltd.

Jan. 2005

SANDVIK Sweden took over TOYO, Japan. Countinue OEM business with SANDVIK-TOYO.

Dec. 2010

OEM contract with SANDVIK-TOYO finished.

June. 2011

Developing Big Stone's own overseas sales and distributor over the world.

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BRD16C Sinker Rock Drill







General Information

	TOYO and SANDVIK OEM Model.
MODEL	TOYO: TY16C
	SANDVIK: RD160
Explanation	BRD16C 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 BRD160 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.
Advantage	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 workload are specially 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.

Specification

Shank	H22 X 83mm
SHAHK	H22 X 108mm
Weight (kg)	17.0
Overall Lenth (mm)	580
Piston Strock (mm)	55
Piston Dia (mm)	60
Air Consumption(mm³/min)	2.1
Remarks	Air Flushing





General Information

	TOYO and SANDVIK OEM Model.
MODEL	TOYO: TY24C
	SANDVIK: RD240
Explanation	BRD24C 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 BRD24C 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. BRD24C is also equiped with a powerful flushing mechanism which enables efficient removal of rod cuttings also when drilling deep holes.
Advantage	High durability The external parts have a sturdy design, and the internal parts, subjected to severe working conditions, are heat treated and 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 design.

Shank	H22 X 108mm
Weight(kg)	23.0
Overall Lenth (mm)	610
Piston Strock (mm)	68
Piston Dia (mm)	66.7
Air Consumption(mm³/min)	2.7
Remarks	Air & Water
	Flushing



BRD22D Rock Drill

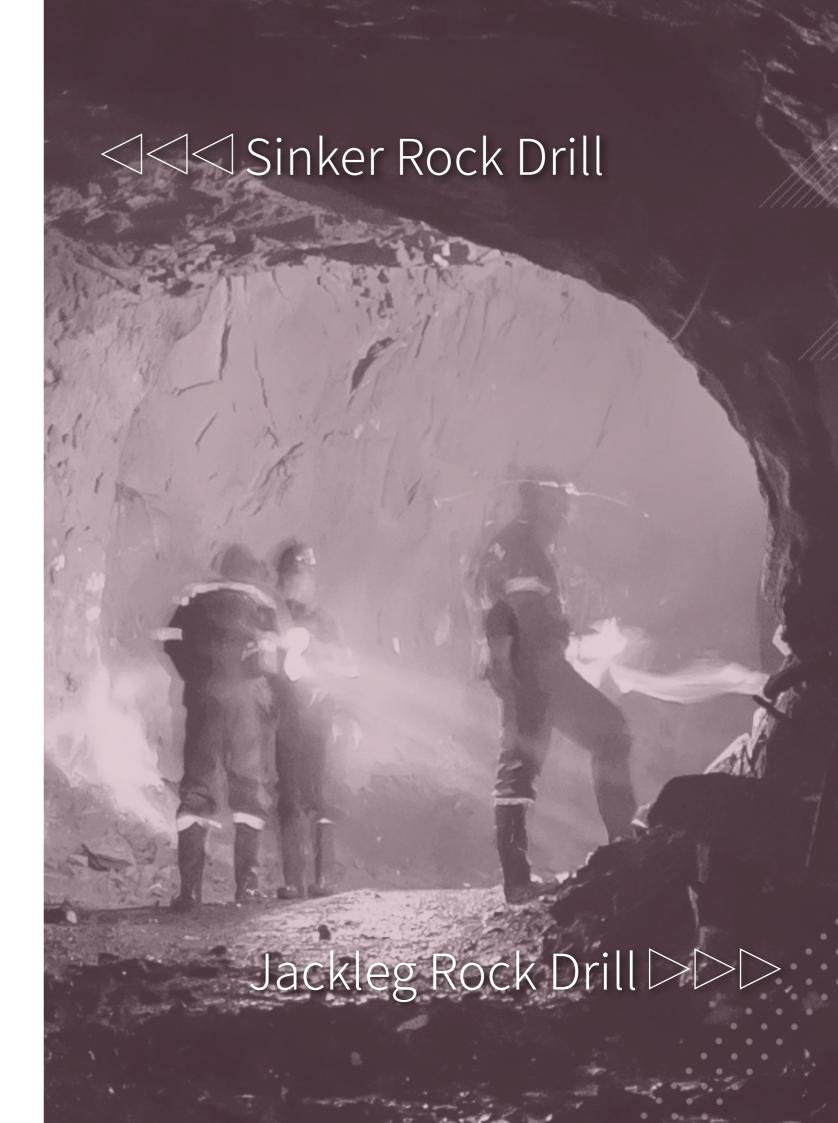




General Information

MODEL	Furukawa OEM Model
Explanation	BRD22D is an economical rock drill with powerful torque and percussive forces, and it is stably 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 6~8m and is making the drill efficient in hard rock. The design of BRD22D 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. BRD22D is also equiped with a powerful flushing mechanism which enables efficient removal of rod cuttings also when drilling deep holes.
Advantage	High durability The external parts have a sturdy design, and the internal parts, subjected to severe working conditions, are heat treated and chromium plated and all components are precisely finished. The drills complete lubricating system assures trouble-free and economical operation.
Advantage	Ultra Durable Piston The piston made of special steel is specially heat treated, and Increased wear resistance for long-term use.
	Rifle Nut Made of special phosphor bronze, it extends the life of the rifle nut and has strong durability.
	Easy operation Perfection of balance and convenient portability have been main concerns in the design.

Shank	H22 X 108mm
Weight(kg)	26.9
Overall Lenth (mm)	612
Piston Strock (mm)	70
Piston Dia (mm)	70
Air Consumption(mm³/min)	3.5
Remarks	Air Flushing



BRD24LD Jackleg Rock Drill







General Information

TOYO and SANDVIK OEM Model MODEL TOYO: TY24LD

SANDVIK: RD245

Explanation

Unlike conventional leg drills designed primarily for maximum drilling speed, the BRD24LD features a sound balance between the pusher leg and the drill. This ensures stabilized operation through a wide range of drilling angles. Moreover, the pusher leg absorbs the drilling vibrations very 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 pusher leg is as light-weight as it can be.

Perfect Balance of Drill and Pusher Leg

The drill recoil is absorbed by the leg owing to the integral design of the pusher 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.

Advantage

Adaptable to Long-hole Drilling

Long-hole drilling is possible with BRD24LD'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

Specification

Rock Drill		Pusher Leg		
Model	BRD24LD	Model	BL24	BL280
Shank	H22 X 108mm	Weight(kg)	12.0	15.0
Weight(kg)	26.0	Length (mm)	1,395	1,750
Overall Length (mm)	660	Extended Length (mm)	2,360	2,960
Piston Strock (mm)	68	Feed Length (mm)	965	1,210
Piston Dia (mm)	66.7	Feed Cylinder Dia (mm)	57	62
Air Consumption(mm³/min)	2.7	BRD24LD		24LD
Support Leg	BL24, BL280	Mounted Rock Drill	BRD280LD	









General Information

TOYO and SANDVIK OEM Model

MODEL TOYO: TY280LD or TOYO280

SANDVIK: RD285

Explanation

BRD280LD 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 pusher leg are well balanced which gives a stable operation with a minimum of recoil. BRD280LD operates with a high drilling speed and minimizes the operator's fatigue and the cost of drilling.

High Drilling Speed

BRD280LD 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 pusher 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.

Advantage

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 Pusher Leg Providing Stable Feed Pressure

The BL280 Pusher Leg is designed to ideally match with BRD280LD making the drill to fully display its performance. Made of super duralumin, the pusher leg is light in weight and very easy to handle. This pusher leg is very convenient for drilling at high positions and for drilling with a long drill rod.

Rock Drill		Pusher Leg		
Model	BRD280LD	Model	BL24	BL280
Shank	H22 X 108mm	Weight(kg)	12.0	15.0
Weight(kg)	30.0	Length (mm)	1,395	1,750
Overall Length (mm)	675	Extended Length (mm)	2,360	2,960
Piston Strock (mm)	68	Feed Length (mm)	965	1,210
Piston Dia (mm)	76.2	Feed Cylinder Dia (mm)	57	62
Air Consumption(mm³/min)	3.5	Mauntad Bask Drill	BRD24LD BRD280LD	
Support Leg	BL24, BL280	Mounted Rock Drill		



BRD85LD Jackleg Rock Drill







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General Information

TOYO and SANDVIK OEM Model

MODEL TOYO: TY85LD

SANDVIK: RD855

BRD85LD is a middle-weight leg drill. It has many outstanding features not available on similar sized leg drills of other companies.

Outstanding Penetration Rate

Although a middle-weight machine, the penetration rate of BRD85LD 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

Advantage

Explanation

The perfect balance between the drill and the pusher 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.

Specification

Rock Drill		Pusher Leg	
Model	BRD85LD	Model	BL85
Shank	H22 X 108mm	Weight(kg)	13.0
Weight(kg)	25.0	Length (mm)	1,530
Overall Length (mm)	615	Extended Length (mm)	2,530
Piston Strock (mm)	60	Feed Length (mm)	1,000
Piston Dia (mm)	85.0	Feed Cylinder Dia (mm)	65
Air Consumption(mm ³ /min)	3.5	Married Barda Ball	BRD85LD
Support Leg	BL85	Mounted Rock Drill BRI	









General Information

MODEL Furukawa OEM Model

Explanation

Unlike conventional leg drills designed primarily for maximum drilling speed, the BRD322D features a sound balance between the pusher leg and the drill. This ensures stabilized operation through a wide range of drilling angles. Moreover, the pusher leg absorbs the drilling vibrations very 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 pusher leg is as light-weight as it can be.

Release Valve and Stop Plunger

Pressing the stop plunger on pusher Leg is a safety device that completely shuts off the air supply, so that the pusher leg can be adjusted stably without turning the feed control valve. It is very useful in emergency stops and can prevent safety accidents.

Air-Compressed Pawl

The 322D pawl is compressed by air, and does not require a pawl plunger and pawl spring. It is economical because all four sides can be used in a square shape of wear-resistant material.

Perfect Balance of Drill and Pusher Leg

Advantage

The drill recoil is absorbed by the leg owing to the integral design of the pusher 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 BRD322D'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.

Rock Drill		Pusher Leg	
Model	BRD322D	Model	BL56
Shank	H22 X 108mm	Weight(kg)	13.0
Weight(kg)	26.9	Length (mm)	1,388
Overall Length (mm)	705	Extended Length (mm)	2,378
Piston Strock (mm)	70	Feed Length (mm)	990
Piston Dia (mm)	70	Feed Cylinder Dia (mm)	57
Air Consumption(mm³/min)	3.5		DDD222D
Support Leg	BL56	Mounted Rock Drill BRD3	



BRD90L Jackleg Rock Drill



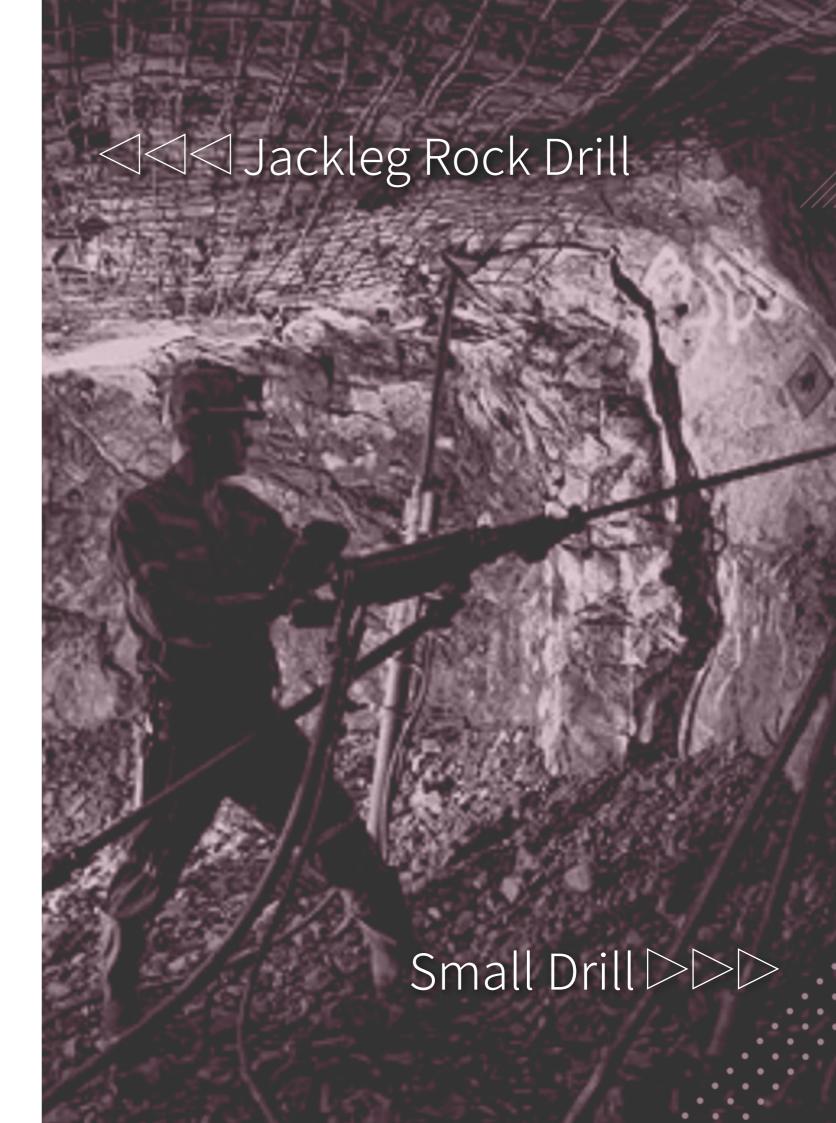




General Information

MODEL	Furukawa OEM Model
Explanation	BRD90L is the most powerful leg drill among our drills with 90mm of piston diameter and 3,130mm of extended pusher leg.
	Exhaust Direction Conversion Silencer A synthetic rubber silencer is installed at the exhaust port to silence the exhaust noise, and the exhaust direction can be changed freely according to the working conditions.
	Optimal Hitting Force Light-weight streamlined piston and cushion-type valve are fastened to provide high-speed strike and excellent drilling capability with efficient air consumption.
Advantage	Replaceable Cylinder Bush and Driver Nut Special materials are used to improve the durability of the parts, and the life time of the cylinder, piston, and chuck driver is extended by designing the bush and driver nut to be replaced.
	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.
	Automatic Pusher Leg Adjustment The operation of the pusher leg can be automatically adjusted with the retraction valve.

Rock Drill		Pusher Leg		
Model	BRD90L	Model	BL77	
Shank	H22 X 108mm	Weight(kg)	18.7	
Weight(kg)	28.9	Length (mm)	1,830	
Overall Length (mm)	670	Extended Length (mm)	3,130	
Piston Strock (mm)	50	Feed Length (mm)	1,300	
Piston Dia (mm)	90	Feed Cylinder Dia (mm)	67	
Air Consumption(mm³/min)	4.5		BRD90L	
Support Leg	BL77	Mounted Rock Drill BR		



6D Rotary Hammer(Palm Drill)





MODEL

6D Rotary Hammer(Palm Drill)

Explanation

Light and powerful mini drill

By improving the material of existing parts, the performance and durability are improved to the best.

It is suitable for anchor bolting, rock cutting, and splitting work at the rock mountain, construction, and mining site.

Specification

Shank	H15 X 88
Weight(kg)	5.7
Overall Lenth (mm)	424
Piston Strock (mm)	32
Piston Dia (mm)	38
Air Consumption(mm ³ /min)	0.85
Number of Blows (min ⁻¹)	3,400

CA7 Pick Hammer





MODEL

CA7 Pick Hammer

Explanation

It is a self-acting compact breaker that is used for various purposes and easy to handle.

Lightweight and widely used as a useful tool in civil engineering, digging, concrete/asphalt grinding, etc. Particularly used with one-body wedge for rock splitting in marble quarrie.

Simple structure, easy maintenance, and long service life.

When the subject is pressed with rod, it starts automatically and when released, it stops.

Specification

Shank	26×80
Weight(kg)	7
Overall Lenth (mm)	470
Piston Strock (mm)	125
Piston Dia (mm)	35
Air Consumption(mm3/min)	1.2
Number of Blows (min-1)	1,300





MODEL

AA-1 Auger Drill

Explanation

AA1 air auger drill is mainly used for drilling soft rocks.

In particular, it can be used in the coal or granitic mining tunnel.

It is used for drilling and inserting rock bolts at civil construction sites, tunnel construction sites, etc.

Specification

Weight(kg)	8.8
Overall Lenth (mm)	266
Output (kW)	2.1
Revolution (min ⁻¹)	900
Air Consumption(mm³/min)	2.6
Hose Adapter	R3/4
Operation Method	Direct Lever

Spare Part

It is essential to have enough spare parts for the effective drilling works. All parts are processed in A-class material, and the accurate heat treatment according to the purpose of each part maximizes durability and the role of each part.













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