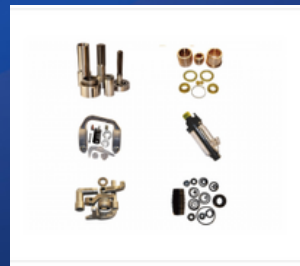


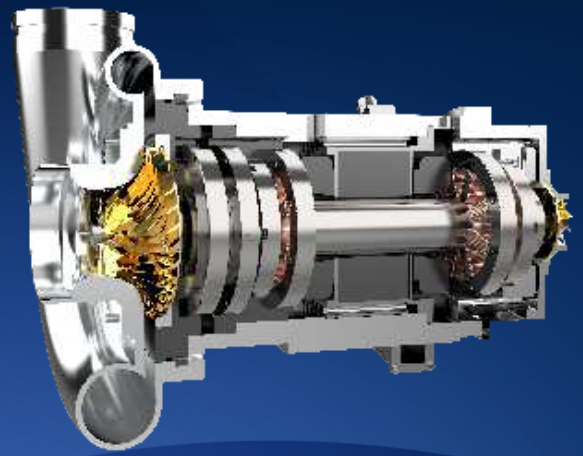
COMPANY PROFILE

MAGLEV AFRICA



MAGLEV HIGH-END ROCK DRILLING EQUIPMENT





Welcome to Our Company

Maglev South Africa stands at the forefront of industrial energy efficiency, delivering next-generation magnetic levitation (maglev) technology that transforms how industries manage power and sustainability. Our advanced maglev power solutions—including turbo blowers, vacuum pumps, air compressors, centrifugal water chillers (heat pumps), low-temperature waste heat generators, and steam compressors—are engineered to reduce energy consumption by an average of 30% power saving guaranteed but could be as much as 50%, and significantly lower noise levels from, Max 70 - 80 Db .

Our technology is already making a measurable impact across sectors such as cement, paper, chemical, and steel manufacturing, where energy efficiency and operational performance are critical. By integrating maglev systems, businesses not only cut operational costs but also contribute meaningfully to global carbon reduction efforts and environmental sustainability goals.

As a key enabler of national carbon peaking and carbon neutrality strategies, Maglev South Africa is proud to support industries on their journey toward a cleaner, smarter, and more sustainable future.

Our Mission

At Maglev South Africa, our mission is to revolutionize industrial energy systems through innovative magnetic levitation technology. We are committed to delivering high-efficiency, energy-saving solutions that reduce environmental impact, lower operational costs, and support global sustainability goals. By empowering industries with cleaner, quieter, and smarter power systems, we aim to lead the transition toward a more sustainable and energy-conscious future.

Our Vision

To be the leading provider of magnetic levitation energy solutions in Africa and beyond—driving industrial innovation, shaping a sustainable future, and setting new global standards in energy efficiency and environmental responsibility.

Our Goal

Our goal is to accelerate the adoption of maglev technology across key industries by providing reliable, high-performance energy solutions that achieve measurable energy savings, reduce carbon emissions, and minimize noise pollution. We aim to support our clients in meeting their sustainability targets while strengthening their operational efficiency and contributing to the global transition toward greener industrial practices.

TRC Impactor Series

Product Introduction

The Tianrui TRC DTH Hammer is engineered for high-performance drilling and is fully compatible with pneumatic drill rigs such as the CM351 downhole drill rig. It is ideal for a wide range of applications, including blast hole drilling in mining, harbor construction, quarrying, and road development. Additionally, it can be used for downhole drilling in landslide reinforcement, water wells, and ground-source air conditioning system installations.

Product Features

The TRC DTH Hammer is designed for optimal energy transfer, delivering high drilling efficiency, low air consumption, and stable operating pressure. Built with durable materials for enhanced wear resistance, it has demonstrated superior performance and longevity in real-world construction site testing. Its speed and service life rank among the most advanced in China, making it a trusted choice for demanding drilling environments.



Technique Parameters

Model	Air Pressure (MPa)	Air Consumption (m³/min)	Length (mm)	Weight (kg)	Locking Jaw (mm)	Acceptable Bits (mm)
TRC90	0.5–0.7	0.5–5	855	22	60 × 60	φ 90–100
TRC35G	1.0–2.5	3.8–7.5	888	25	60 × 60	φ 90–105
TRC45G	1.0–2.5	6–15	1011	43.2	65 × 65	φ 110–135
TRC55G	1.0–2.5	7–19	1110	69	74 × 74	φ 135–155
TRC65G	1.0–2.5	9–26	1238	98	101 × 101	φ 155–190
TRC75G	1.0–2.5	11–27	1188	115	101 × 101	φ 175–216
TRC85G	1.0–2.5	12–28	1359	175	148 × 148	φ 203–254
TRC88G	1.7–3.0	23(18 bar)	1420	190	148 × 148	φ 203–254
TRC100G	1.0–2.5	22–55	1502	290	176 × 176	φ 254–311

Trz DTH Bit Series

Product Introduction

Tianrui Heavy Industry manufactures a full range of high-performance DTH drill bits, including models TRZ90, TRZ90G, TRZ115G, TRZ140G, TRZ152G, TRZ165G, TRZ203G, TRZ219G, TRZ254G, and TRZ305G. Designed to operate seamlessly with DTH hammers, these drill bits are widely used in open-pit mining, harbor construction, quarrying, railway and highway projects, as well as in landslide stabilization, dam reinforcement, ground-source air conditioning systems, and well drilling operations.

Product Features

Crafted using advanced manufacturing techniques and treated with a specialized heat process, our DTH drill bits offer exceptional durability, high drilling speed, and extended service life. These features ensure reliable performance in even the most demanding drilling conditions.



Technique Parameters

Model	Air Vent Hole	Diameter (mm)	Weight (kg)	Side Tooth (mm)	Central Tooth (mm)	Acceptable DTH Hammer
TRZ90	2	90	3.75	6 × φ 14	4 × φ 12	TRC90G
TRZ90G	2	90	4.6	6 × φ 14	4 × φ 12	TRC35G
TRZ115G	2	115–118	9.0	7 × φ 14	6 × φ 13	TRC45G
TRZ140G	2	140	17	7 × φ 18	7 × φ 14	TRC55G
TRZ152G	2	152–155	22	8 × φ 18	7 × φ 16	TRC65G
TRZ165G	2	165–170	26	8 × φ 18	8 × φ 16	TRC65G
TRZ203G	2	203–206	40	10 × φ 18	10 × φ 16	TRC85G
TRZ219G	2	219–222	49	10 × φ 18	12 × φ 16	TRC85G
TRZ254G	3	254–258	71	12 × φ 18	21 × φ 16	TRC85G
TRZ305G	4	305–310	95	12 × φ 18	29 × φ 16	TRC100G

Yt28 Air Leg Rock Drill



Product Introduction

The YT28 Air-leg Rock Drill is an advanced drilling solution developed by Tianrui Heavy Industry, incorporating the best features of various air-leg rock drills into one efficient, durable, and environmentally friendly machine. Designed with the latest engineering technology, the YT28 offers high drilling speed, low failure rates, long-lasting wear parts, reduced noise, and lightweight construction. It is widely used in tunnel excavation, mining, rock drilling, and blasting operations, and is an essential tool for projects in the railway, highway, metallurgical, coal, and hydropower sectors.

Product Features

1. Centralized Operation & Pneumatic-Water Integration

- Easy start-up and user-friendly controls
- Integrated pneumatic and water systems for enhanced drilling performance and maintenance ease

2. Efficient & Durable Performance

- Low noise and vibration
- High energy efficiency
- Durable components with strong blast-hole cleaning capabilities
- Stable and reliable operation in demanding environments

3. Convenient Lubrication System

- Equipped with a transparent oiler for easy oil level monitoring and adjustment
- Ensures consistent lubrication and longer equipment life

Scope of Application

- 1.The YT28 is ideal for drilling horizontal and inclined blast holes in medium to hard rock formations. It is indispensable in railway and highway construction, metallurgical operations, coal mining, hydropower development, and general rock excavation projects.
- 2.The drill is compatible with air legs FT160BC or FT160BD, and can also be mounted on a drill rig or drilling frame for flexible field deployment.

Technique Parameters

Technology parameters name	Parameters units	Parameters
Weight	kg	≈ 26
Length	mm	659
Cylinder diameter	mm	φ 80
Piston stroke	mm	60
Air consumption	L/s	≤ 55
Impact frequency	Hz	≥ 35
Impact strength	J	≥ 63
Drilling speed	mm/min	≥ 400
Drilling diameter	mm	φ 34~45
Drilling depth	m	5
Shank dimensions(hex × length)	mm	22 × 108 ± 1

YT29 (A)

Product Introduction

The YT29A Air-leg Rock Drill is a high-performance drilling solution designed for speed, efficiency, and energy savings. With its superior capabilities, the YT29A is widely used in railway, highway, and hydropower construction, as well as in mine tunnel excavation projects, including metallurgy and coal mining. It is ideally suited for demanding rock drilling applications where reliability and productivity are essential.

Product Features

- Centralized Control System for simplified and efficient operation
- Flexible Startup for ease of use in various field conditions
- High Energy Efficiency to reduce operational costs
- Durable Wear Components for extended service life
- Excellent Blast Hole Cleaning Ability ensures stable and continuous drilling
- Robust and Reliable Performance in harsh environments

Scope of Application

- 1.The YT29A is suitable for horizontal, inclined, and vertical bolt hole drilling in hard rock formations. Typical blast hole diameters range from 35–45 mm, with an effective drilling depth of up to 5 meters.
- 2.It can be used with various air legs to suit specific operational conditions, including the FT160A or FT160C long air leg, and the FT160B short air leg (for metal mines, the FT170 air leg is also compatible).
- 3.The YT29A is versatile and can be mounted on a drilling rig or clamp, supporting both dry and wet drilling operations.



Technique Parameters

Technology parameters name	Parameters units	Parameters
Weight	kg	≈ 27
Length	mm	659
Cylinder diameter	mm	φ 82
Piston stroke	mm	60
Air consumption	L/s	≤ 65
Impact frequency	Hz	≥ 37
Impact strength	J	≥ 69
Drilling speed	mm/min	≥ 475
Drilling diameter	mm	φ 35–45
Drilling depth	m	5
Shank dimensions(hex × length)	mm	22 × 108 ± 1

Hand-held Rock Drill

Product Introduction

The Y28 Hand-Held Rock Drill is specifically designed for dry drilling applications, making it ideal for split-hole drilling, breaking operations, and general use in quarry sites and other rugged work environments. It is also well-suited for horizontal and inclined blast hole drilling, as well as re-crushing tasks.

Product Features

1. Lightweight and Efficient – Easy to handle with low air consumption, ensuring smooth operation in the field.
2. Exceptional Drilling Speed – The Y28 offers the fastest drilling speed among hand-held rock drills, increasing productivity and reducing operational time.



YO18



YO20



Y24



Y28

Technique Parameters

Type	Length (mm)	Weight (kg)	Cylinder Diameter × Piston Stroke (mm)	Air Pressure (MPa)	Air Consumption (m³/min)	Drilling Diameter (mm)	Drilling Depth (m)	Drilling Speed (mm/ min)	Impact Frequency (Hz)
YO18	550	18	φ 58 × 50	0.4~0.5	≤ 1.4	φ 36~42	1.5~2	≥ 120	≥ 23
YO20	560	20.5	φ 63 × 55	0.4~0.5	≤ 1.4	φ 34~42	3	≥ 150	≥ 33
Y24	605	23	φ 70 × 70	0.4~0.63	≤ 3	φ 32~42	5	≥ 320	≥ 28
Y28	659	25	φ 80 × 60	0.4~0.63	≤ 3.3	φ 34~45	5	≥ 400	≥ 35

YT29 (S)



Product Introduction

The YT29A Air-leg Rock Drill is a high-speed, high-efficiency, and energy-saving drilling tool designed for demanding applications. It is ideal for use in railway, highway, and hydropower construction, and serves as a modern, reliable solution for mine tunnel excavation, including metallurgical operations, coal mining, and other intensive drilling tasks.

Product Features

- Centralized Control System for streamlined operation
- Flexible Start-up for versatile working conditions
- Energy-Efficient Performance to reduce operating costs
- Durable Wear Components for long-term reliability
- Powerful Blast Hole Cleaning Capability
- Proven Stability and Dependability in rugged environments

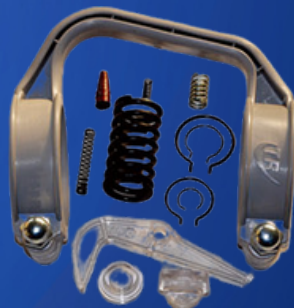
Scope of Application

- 1.The YT29A is suitable for drilling horizontal, inclined, and vertical bolt holes in hard rock formations. It supports blast hole diameters ranging from 35 mm to 45 mm, with an effective drilling depth of up to 5 meters.
 - 2.Compatible with multiple air leg configurations, including:
 - FT160A or FT160C (long air legs)
 - FT160B (short air leg)
 - FT170 (recommended for metal mining)
- The YT29A can also be mounted on a drill rig or drilling cramp, supporting both dry and wet drilling operations based on site requirements.

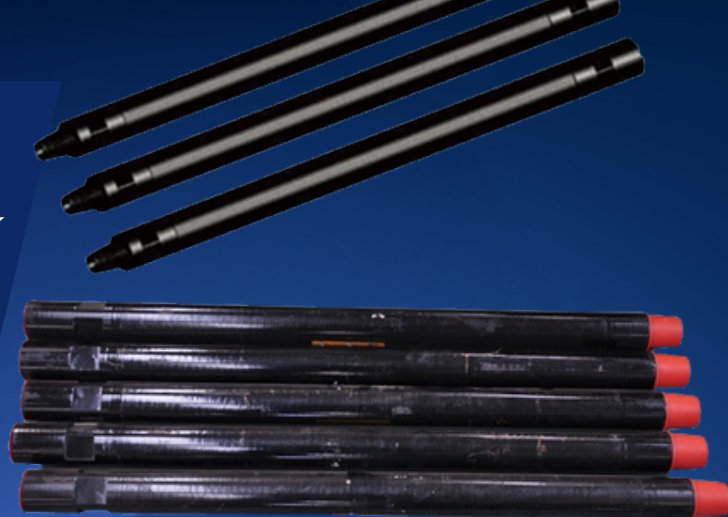
Technique Parameters

Technology parameters name	Parameters units	Parameters
Weight	kg	≈ 24
Length	mm	628
Cylinder diameter	mm	φ 76
Piston stroke	mm	55
Air consumption	L/s	≤ 54
Impact frequency	Hz	≥ 36
Impact strength	J	≥ 59
Drilling speed	mm/min	≥ 340
Drilling diameter	mm	φ 34~42
Drilling depth	m	5
Shank dimensions(hex × length)	mm	22 × 108 ± 1

Pneumatic Rock Drill Accessories



Drill Pipe Series for Rock Drilling Rig



Product Introduction

Tianrui drill rods are engineered for use with both hydraulic and pneumatic drilling rigs, with pneumatic DTH drill rods being in particularly high demand. These rods are primarily used in mine blasting and water well drilling applications.

Our rods are compatible with a wide range of industry-standard equipment, including hydraulic rigs such as Atlas Copco D7, D9 and Sandvik DX800, as well as pneumatic rigs like JK500, SL400, Ingersoll Rand CM351, and Sullair PCR-200-DH.

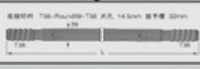
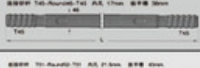
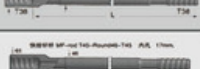
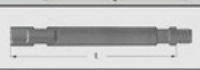
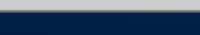
Product Features

Tianrui drill rods and shank adapters are manufactured using advanced production techniques and specialized heat treatment processes, ensuring superior performance and reliability. Key advantages include:

- High tensile strength and durability
- Excellent resistance to wear and impact
- Lightweight design for easier handling
- Fast deslagging capability
- Highly resistant to breakage under tough conditions

Renowned across China for their quality and dependability, Tianrui drill rods have become the preferred choice for professionals seeking consistent, high-performance drilling tools.

Technique Parameters

Diagram	Product name	Size	Specification (mm)	Size of screw thread	Matched Drill Rig
	extendible drill rod	T38	Φ38 × 3000/3660	T38	Outdoor Hydraulic drill rig (like Atlas D7, D9; Sandvik DX800)
	extendible drill rod	T45	Φ45 × 3000/3660	T45	Outdoor Hydraulic drill rig (like Atlas D7, D9; Sandvik DX800)
	extendible drill rod	T51	Φ51 × 3000/3660	T51	Outdoor Hydraulic drill rig (like Atlas D7, D9; Sandvik DX800)
	quick-changed drill rod	T38K	Φ38 × 3000/3660	T38	Outdoor Hydraulic drill rig (like Atlas D7, D9; Sandvik DX800)
	quick-changed drill rod	T45K	Φ45 × 3000/3660	T45	Outdoor Hydraulic drill rig (like Atlas D7, D9; Sandvik DX800)
	quick-changed drill rod	T51K	Φ51 × 3000/3660	T51	Outdoor Hydraulic drill rig (like Atlas D7, D9; Sandvik DX800)
	DTH drill rod	ZG60	Φ60 × 1000/2000/3000	F48 × 10	pneumatic DTH drill rig (like drill rig 90)
	DTH drill rod	ZG76	Φ76 × 2000/3000	API2-3/8REG	pneumatic DTH drill rig (like CM351)
	DTH drill rod	ZG89	Φ89 × 3000	API2-3/8IF	pneumatic DTH drill rig (like MD50/60)
	ground water pipe	42TS	Φ42 × 800	60° cone-screw -5	TXV-150/TXV75
	ground water pipe	50TS	Φ50 × 800	60° cone-screw -5	TXV-150/TXV75
	Shank adapter	T38/T45/T51	565/600/770	T38/T45/T51	Cop1840HE/1850 Cop2160EX/2560EX HL700/ HL710-52/HL710PE-52/ HF810T-52

YGZ80,YGZ90,YGZ100 Use R32 Shank, Shank Adapter, Connecting Sleeve and Drill Bits

Product Introduction

We manufacture high-performance R32 shanks, shank adapters, connecting sleeves, and drill bits, designed to work seamlessly with YGZ80, YGZ90, and YGZ100 guide rail rotary drills. These tools are widely used in underground mining for drilling upward, parallel, or fan-shaped blast holes.

Additionally, they can be installed on outdoor jumbos for drilling downward and parallel blast holes in small to medium-sized quarries and rock excavation projects. The system is also suitable for drilling mid-depth blast holes with precision and consistency.

Product Features

- Manufactured from high-grade alloy structural steel
- Produced using advanced manufacturing techniques and specialized heat treatment
- Offers excellent toughness and high tensile strength
- Features superior wear resistance, long service life, and strong linearity
- Engineered for minimal risk of fracture, even under demanding conditions



Technique Parameters

Picture	Product Name	Parameters
	R32 Shank	Thread Type:R32
		Specification: ϕ 32*800~3000mm
		Suitable Equipment:YGZ80/YGZ90/YGZ100
	Shank Adapter	Thread Type:R32
		Specification: ϕ 32mm
		Suitable Equipment:YGZ80/YGZ90/YGZ100
	Connecting Sleeve	Thread Type:R32
	Drill Bits	Thread Type:R32
		Specification: ϕ 50~76mm
		Suitable Equipment:YGZ80/YGZ90/YGZ100

TRB Triangular Hydraulic Breakers

Product Introduction

The Tianrui Triangular Hydraulic Breaker is a high-performance crushing attachment designed for installation on excavators and loaders. It efficiently converts hydraulic energy into mechanical force, making it ideal for a wide range of applications such as mining, metallurgical engineering, railway and highway maintenance, cement pavement demolition, and rock excavation.

Engineered to deliver powerful impact force, the hydraulic breaker significantly improves productivity in demanding environments by effectively breaking through rock and stone.

Product Features

- Comprehensive Range of Models to suit various machinery and operational needs
- Advanced Design for optimal energy conversion and impact force
- High Performance & Strong Power Output
- Durable Wear-Resistant Components for extended service life
- Low Failure Rate, ensuring reliability and reduced downtime

Renowned for its quality and efficiency, the Tianrui hydraulic breaker has earned a strong reputation and is the preferred choice for professionals across industries.



Technique Parameters

Model/ Parameters	Weight (kg)	Length (mm)	Drive oil flow (l/min)	Drive oil pressure (kgf/cm ²)	Impact Frequency (b.p.m)	Chisel Dia. (mm)	Suitable excavator (ton)
TRB680	258	1415	40-70	110-140	500-900	φ 68	4-7
TRB750	332	1480	50-90	120-150	400-800	φ 75	6-9
TRB850	557	1735	60-100	130-160	400-800	φ 85	7-14
TRB1000	753	1994	80-110	150-170	350-700	φ 100	10-15
TRB1350	1653	2367	130-150	160-180	400-800	φ 135	18-26
TRB1400	1774	2414	120-180	160-180	350-500	φ 140	18-26
TRB1500	2221	2519	150-190	160-180	350-700	φ 150	27-35
TRB1550	2569	2760	180-240	160-180	300-450	φ 155	28-35
TRB1650	2752	2816	200-260	160-180	250-400	φ 165	30-45
TRB1750	3912	3176	210-290	160-180	200-350	φ 175	40-55
TRB1850	4866	3425	200-350	170-230	110-350	φ 185	45-80

TRB Silence Type Hydraulic Breakers

Product Introduction

The Tianrui Silence Hydraulic Breaker is a high-efficiency crushing attachment designed for installation on excavators and loaders. This equipment converts hydraulic energy into powerful mechanical impact, making it ideal for a wide range of applications including mining, metallurgical engineering, railway and highway maintenance, cement pavement demolition, excavation, and rock and stone breaking.

The silence-type breaker features a low-noise enclosure and a vibration-dampening system that protects the host machine and enhances operator comfort. Its centrally aligned chisel sliding sleeve reduces maintenance needs and extends service life, delivering greater reliability and reduced downtime.

Product Features

- Complete range of models to fit various machinery and application needs
- Low-noise design with effective vibration protection
- Advanced engineering for stable, high-performance output
- High impact frequency and strong impact force
- Durable construction with long-lasting wear parts
- Low maintenance and failure rate, improving operational efficiency

Renowned for its quiet operation, strength, and longevity, the Tianrui Silence Hydraulic Breaker is the trusted choice for demanding job sites and environmentally sensitive environments.



Technique Parameters

Model/Parameters	Weight (kg)	Length (mm)	Drive oil flow (L/min)	Drive oil pressure (kgf/cm ²)	Impact frequency (b.p.m)	Chisel diameter (mm)	Chisel length (mm)	Suitable excavator (ton)
TRB680	295	1600	40-70	110-140	500-900	φ 68	700	4-7
TRB1000	861	2326	80-110	150-170	350-700	φ 100	950	11-16
TRB1400	1825	2828	120-180	160-180	350-500	φ 140	1300	18-26
TRB1550	2635	3255	180-240	160-180	300-450	φ 155	1400	28-35
TRB1650	2850	3395	200-260	160-180	250-400	φ 165	1500	30-40

Hydraulic Breaker Chisels

Product Introduction

Our Hydraulic Breaker Chisels are engineered for stable performance, exceptional durability, and consistent quality. Designed for compatibility with a wide range of international hydraulic breaker brands—including Soosan, GB, Montabert, Furukawa, and Atlas Copco—these chisels deliver reliable results across diverse applications.

Product Features

- Manufactured from high-grade alloy steel
- Treated with an advanced heat treatment process for maximum toughness
- Offers excellent wear resistance and extended service life
- Built to withstand demanding working conditions with minimal wear and deformation

Our chisels are trusted by professionals seeking dependable tools for high-impact performance and long-term value.



Technique Parameters

Size	Qualification (mm)	Weight (kg)	Acceptable Excavator (ton)	Acceptable breaker
TRQG-68	φ 68 × 700	16	4-7	SB40
TRQG-75	φ 75 × 710	21	6-9	SB43
TRQG-85	φ 85 × 960	29	7-14	SB45
TRQG-100	φ 100 × 1000	55	10-15	SB50
TRQG-135	φ 135 × 1300	127	18-26	GB8AT/20G/SB81N
TRQG-140	φ 140 × 1300	134	18-26	SB81/GB8T/FX140
TBQG-150	φ 150 × 1400	155	27-35	SB100/30G/RHB330
TRQG-155	φ 155 × 1500	183	28-35	SB121/F37
TRQG-165	φ 165 × 1600	220	30-45	SB131
TRQG175	φ 175 × 1600	260	40-55	SB151
TRQG185	φ 185 × 1700	308	45-80	SB161

Hydraulic Breaker Spareparts

Product Introduction

We supply high-quality hydraulic breaker spare parts, including pistons, reversing valves, valve covers, and shells, designed for excellent performance, durability, and reliable operation. These components are compatible with major international hydraulic breaker brands such as Soosan, GB, Montabert, Furukawa, and Atlas Copco.

Product Features

- Manufactured using advanced production techniques and specialized heat treatment processes
- Engineered for maximum toughness, high impact resistance, and extended service life
- Offers superior wear resistance, ensuring performance in the most demanding conditions
- Proven quality and stability, trusted across global markets

Our spare parts are the ideal choice for maintaining optimal performance and extending the life of your hydraulic breaker equipment.



Technique Parameters

Hydraulic Breaker	Piston	Reversing valve	Breaker Shell
TRB680(SB40)	TR40	TRF40	KT40
TRB750(SB43)	TR43	TRF43	KT43
TRB850(SB45)	TR45	TRF45	KT45
TRB1000(SB50)	TR50	TRF50	KT50
TRB1350(HB20G)	TR20G	TRF20G	KT20G
TRB1400(SB81)	TR81	TRF81	KT81
TRB1500(SB100)	TR100	TRF100	KT100
TRB1550(SB121)	TR121	TRF121	KT121
TRB1650(SB131)	TR131	TRF131	KT131
TRB1750(SB151)	TR151	TRF151	KT151
TRB1800	TR180	TRF180	KT180
TRB1850	TR185	TRF15	KT185

Production Site



Construction Site



Construction Site



FAQ

1. Product delivery time?

- **10 weeks**

2. Product stock availability in SA?

- **Throughout the industry, for example, mines & factories, regarding the production line, critical spares have to be kept on site. (example: production line with 10x 75kw compressors, should have one in stock on site.)**

3. Critical Spares support by Maglev Africa?

- **Any critical product spares can be imported via airfreight within 3 days.**

Get in Touch



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