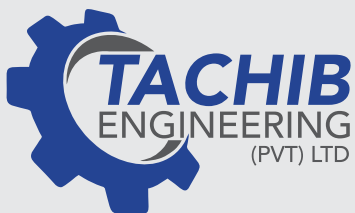


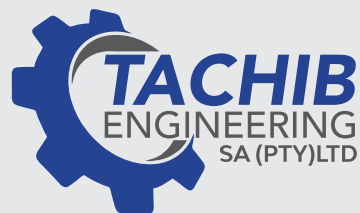
PRODUCT CATALOGUE

total engineering
solutions guaranteed

PERCUSSIVE TOOLING



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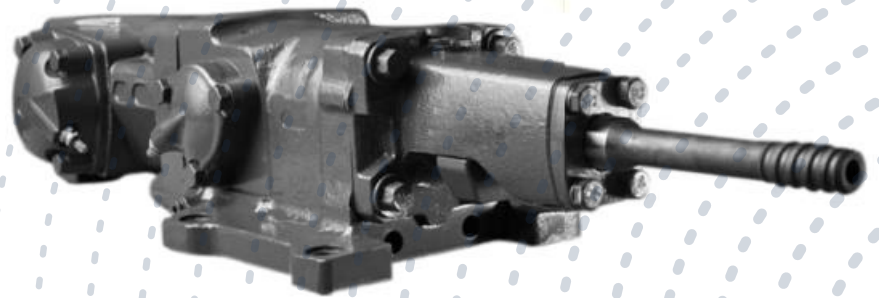


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About Us

Tachib Engineering is a manufacturer, supplier and distributor of mining equipment.

Percussive Tooling. We are a dynamic company with an aim to become leaders in technology and product innovation.

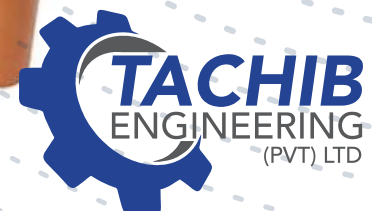


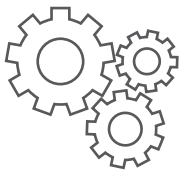
About Our Products

Our drilling products are manufactured using only the best innovative solutions, enabling us to be at the forefront of percussive tooling supplies.

Our products include, but not limited to the following:

- Integral Drill Steels
- Directional Drill Steels
- Taper Drill Steels
- Taper Button Bits
- Taper Chisel Bits
- Taper Directional Bits
- Threaded Button bits
- Drifter Rods
- MF Extension Rods
- Couplings
- Shank Adapters
- Roof Bolt Spanners
- Pinch Bars
- Hose fittings
- Rock Drill Machines (Jack Hammers) and Spares
- Drifter Machines and Spares
- DTH Bits
- Drill Pipes
- Sub saver Adapters
- DTH Hammers
- Wrenches
- Coring Bits and Reamer Shells
- Coring Rods





DRILL STEELS

Drill steels are widely used for small hole drilling, 26mm to 42mm. Different lengths are available from 0.6m to 10m. Drill Steels are made in two forms; either as Forged Collars, or as Rubber Collars.



Forged Collar steels are used when drilling on the surface, and Rubber Collar steels are used when drilling underground. The working conditions for a drill steel requires high fatigue strength and toughness, and high resistance to wear and permanent distortion. The majority of drill steel failures are caused by fatigue. It has been recognized that a metal subjected to a repetitive stress fail at a stress much lower than that required to cause failure on a single application of load. The optimum goal in the design of drill steels is that the fatigue limit should exceed the wear life, that is, the drill steel should wear out without failure. The most effective method of improving fatigue performance is improvements in the design:

- Eliminate or reduce stress raisers on the part
- Avoid sharp surface tears resulting from punching, stamping, or other processes
- Prevent the development of surface discontinuities during processing.
- Reduce or eliminate tensile residual stresses caused by manufacturing.
- Ensure the highly stressed part does not coincide with the weakest part / portion.

INTEGRAL DRILL STEELS

Drill steels with drill bits together are called integral drill steels. To order, indicate Drill Steel Length, Gauge Diameter, Shank Size, and whether Forged Collar (for dry drilling) or Rubber Collar (for wet drilling).



Product sizesIntegral Drill Steels

Drill Steel Length	Shank Size	Collar	Gauge Diameter
1.0m	22 x 159	Rubber	40mm
1.3m	22 x 159	Rubber	38mm
1.5m	22 x 159	Rubber	36mm
1.8m	22 x 159	Rubber	36mm
2.3m	22 x 159	Rubber	34mm

DIRECTIONAL DRILL STEELS

Directional steels are used for rock splitting.

Product sizes – Directional Drill Steels

Drill Steel Length	Gauge Diameter
1.5m	38mm
1.8m	38mm
2.3m	38mm
2.3m	36mm
2.8m	36mm
3.3m	36mm



TAPER DRILL STEELS

Taper drill steels work with taper drill bits. Like integral drill steels, taper drill steels also have different lengths to suit different drilling hole depths. To order, indicate Drill Steel Length, Taper Angle (usually its 11-degree taper), Shank Size, and whether Forged Collar (for dry drilling) or Rubber Collar (for wet drilling).

Product sizes – Taper Drill Steels

Drill Steel Length	Shank Size	Collar	Taper Angle
1.0m	22 x 159	Rubber	11
1.3m	22 x 159	Rubber	11
1.5m	22 x 159	Rubber	11
1.8m	22 x 159	Rubber	11
2.3m	22 x 159	Rubber	11
1.0m	22 x 159	Forged	11
1.3m	22 x 159	Forged	11
1.5m	22 x 159	Forged	11
1.8m	22 x 159	Forged	11
2.3m	22 x 159	Forged	11
3.0m	22 x 159	Forged	11
3.3m	22 x 159	Forged	11
0.6m	22 x 108	Forged	11
0.8m	22 x 108	Forged	11
1.0m	22 x 108	Forged	11
1.3m	22 x 108	Forged	11
1.5m	22 x 108	Forged	11
1.8m	22 x 108	Forged	11
2.3m	22 x 108	Forged	11
3.0m	22 x 108	Forged	11
3.3m	22 x 108	Forged	11



TAPER BUTTON, AND CHISEL BITS

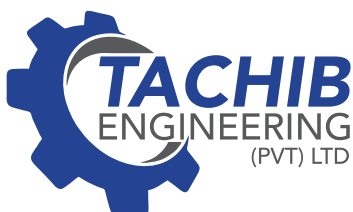
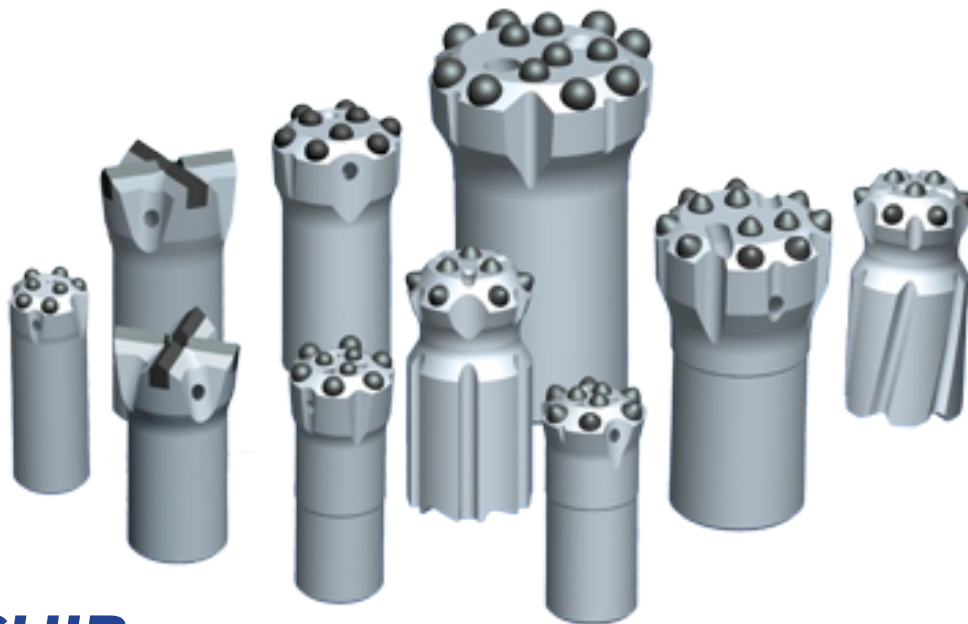
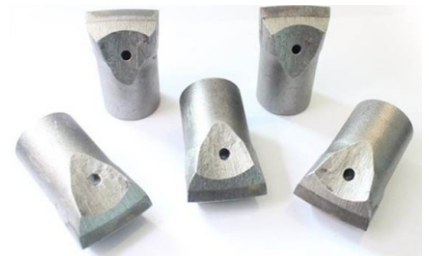
Percussive rock drilling entails high stress levels in button bits, and ultra-high strength levels are hence required of Button Bits. Bit bodies should be of high hardness; hence button bits are made from a steel of high hardenability.

Taper Button Bits Products

Gauge Diameter	Taper Angle	Skirt Size	Buttons		Flushing Holes	
			Gauge	Front	Side	Front
mm	degrees		No x Size	No x Size	No x Size	No x Size
32	11	Short	5x7	2x7	1x5	1x4
34	11	Short	5x7	2x7	1x5	1x4
36	11	Short	5x8	2x7	1x5	1x5
38	11	Short	5x8	2x7	1x5	1x5
41	11	Short	5x9	2x8	1x6	1x5

Taper Chisel Bits Products

Gauge Diameter	Taper Angle	Skirt Size	Application
34mm	11	Short	Drilling
36mm	11	Short	Drilling
38mm	11	Short	Drilling
36mm	11	Short	Directional
38mm	11	Short	Directional



THREADED & DOMED BUTTON BITS

High abrasion resistance is another important parameter to be exhibited by drill bits. Button bits often operate under highly abrasive conditions, owing to the presence of rock chippings. Insufficient resistance to abrasion would result in rapid body wear.



Threaded Button Bits Products

Diameter (mm)	Thread	Insert Profile	Buttons		Flushing Holes	
			Gauge	Front	Side	Front
			No x Size	No x Size	No x Size	No x Size
33	R25	Hemispheric	5x7	2x7	1x5	1x4
35	R25	Semi Ballistic	5x8	2x7	1x6	1x5
37	R25	Semi Ballistic	5x8	2x7	1x6	1x5
45	R32	Semi Ballistic	6x10	3x8	1x5	3x5
48	R32	Hemispheric	6x10	3x9	1x5	3x5
51	R32	Semi Ballistic	6x10	3x8	1x6	3x6
54	R32	Semi Ballistic	6x11	3x8	1x6	3x6
57	R32	Semi Ballistic	6x11	3x9	1x6	3x6
64	T38	Semi Ballistic	6x12	3x11	1x6	3x6

Domed Button Bits Products

Diameter (mm)	Thread	Insert Profile	Buttons		Flushing Holes	
			Gauge	Front	Side	Front
			No x Size	No x Size		
76	R32	Hemispheric	9x13	1x13	1	3
89	R32	Hemispheric	14x13	1x13	2	2
102	R32	Semi Ballistic	16x10	1x13	2	2
127	R32	Semi Ballistic	18x11	1x13	1	3



DRIFTER RODS & MF EXTENSION RODS

High abrasion resistance is another important parameter to be exhibited by drill bits. Button bits often operate under highly abrasive conditions, owing to the presence of rock chippings. Insufficient resistance to abrasion would result in rapid body wear.

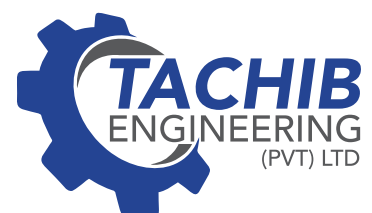
Drifter Rods Products

Thread	Diameter	Model	Length
R32/R25	25	R32HEX25R25	1200mm
R32/R25	25	R32HEX25R25	1900mm
R32/R25	25	R32HEX25R25	2100mm
R32/R25	25	R32HEX25R25	2190mm
R32/R32	32	R32HEX32 R32	1000mm
T38/R32	35	T38HEX35 R32	3700mm
T38/R32	35	T38HEX35 R32	4305mm



MF Extension Rods Products

Thread	Diameter	Model	Length
R25/R25	25	R25HEX25R25	1220mm
R25/R25	25	R25HEX25R25	2100mm
R32/R32	32	R32HEX32R32	800mm
R32/R32	32	R32HEX32R32	1200mm



COUPLINGS

Couplings Products

Thread	Diameter	Length
R25R25	35	140
R32R25	43	150
R32R32	44	150
T38R32	55	180



SHANK ADAPTORS



Shank Adapter Products

Rockdrill	Shank Adapter	Thread	Length
Sandvik-Tamrock RD314		R32	205mm

Rockdrill	Shank Adapter	Thread	Length
Sandvik-Tamrock HLX5		T38	500
Sandvik-Tamrock HLX5		T38	575
Sandvik-Tamrock RD520		R32	525
Sandvik-Tamrock RD520		R32	745
Sandvik-Tamrock RD520		R32	880
Sandvik-Tamrock RD520		T38	525
Sandvik-Tamrock RD520		T38	600
Sandvik-Tamrock RD520		T38	745

Rockdrill	Shank Adapter	Thread	Length
Sandvik-Tamrock RD520		T38	880
Epiroc COP1132		R32	410
Epiroc COP1132		R32	500

ROOF BOLT SPANNERS

Roof Bolt Spanners Products

Spanner Internal Hex Size	Thread	Length
28mm	R32 Female	400mm
32mm	R32 Female	400mm
28mm	R32 Male	760mm
32mm	R32 Male	550mm
36mm	R32 Male	550mm



PINCH BARS

Pinch Bars Products

Model	Length
22mm Hexagonal	1800mm
22mm Hexagonal	2000mm
22mm Hexagonal	2300mm



MINING HOSES AND HOSE FITTINGS

Hose Fittings Products

Part Number	Description
BHF 864	1/2" Wing Nut
BHF 780	1" Wing Nut
BHF 258	1/2" Hose Tail
BHF 1116	1" Hose Tail
BHF 267	1/2" Male Spud
BHF 270	Male Female Spud
BHF 1110	1" Male Spud
BHF 269	1/2" Female Spud
BHF 1111	1" Female Spud
BHF 1113	25mm x 20mm Female Spud
BHF 79	1/2" Hose Mender
BHF 77	1" Hose Mender
BHF 1741	1" BSP Laterals



ROCK DRILL MACHINES

Rockdrill Machines Products

Lightweight Rock Drills

Key Features

- Suitable for plug hole, anchor, and wedge hole drilling
- Built in air flushing
- Ideal for lightweight applications
- Available in "D" and "T" handle configurations for angular and sinker drilling



Model No.	Weight	Length	Stroke Length	Impact Rate	Air Consumption @ 6 bar	Hose Connection	Chuck Size	Ordering Part No.
MH501L	17.8 kg (42 lb)	510mm (20 in)	60mm (2 3/8 in)	2100 BPM	39 l/s (83 cfm)	Ø 19 mm (Ø 3/4 in)	22 x108 mm	5111 113 000
MH505L	24kg (53 lb)	565mm (22 in)	59mm(2 3/8 in)	2040 BPM	58 l/s(123 cfm)	Ø 19 mm(Ø 3/4 in)	22 x108 mm 25 x108 mm	5111 109 000 5111 109 000 50



Medium to Heavyweight Rock Drills

Key Features

- For drilling upto 6m depth
- For production drilling in DSI, stone quarries, and other mining applications
- Used for blast hole & secondary drilling
- Built-in air flushing. Water flushing optional
- Traditional design & easily available spares

Model No.	Weight	Length	Stroke Length	Impact Rate	Air Consumption @ 6 bar	Hose Connection	Chuck Size	Ordering Part No.
MH502A	24.5kg (55 lb)	584mm (23 in)	51mm(2 in)	2220 BPM	48 l/s(102 cfm)	Ø 19 mm(Ø 3/4 in)	22 x108 mm 25 x108 mm	5111 116 000 5111 116 000 51



Underground Jackleg Drills

Key Features

- Designed for production drilling in underground mines
- Designed for horizontal drilling applications
- Built-in water flushing

Model No.	Weight	Stroke Length	Air Consumption	Impact Rate	Chuck Size	Ordering Part No.
S215	22.6 kg (49.6 lb)	55 mm(2.1 in)	116.5 @ 500 kPA	2175 @ 500 kPA	22 x 158 mm	5111 101 000
					25 x 158 mm	5111 102 000 50
S25	31 kg (68 lb)	70 mm(2.7 in)	145 @ 500 kPA	2000 @ 500 kPA	22 x 158 mm	5111 105 000
					25 x 158 mm	5111 105 000 50

MHD100 Hydraulic Drifter

Key Features

- Built-in air flushing
- For DSI line drilling, foundation drilling, trenching, bolting, and a variety of other applications
- Can be used with biodegradable oils to reduce environmental impact
- High productivity drilling with low maintenance costs



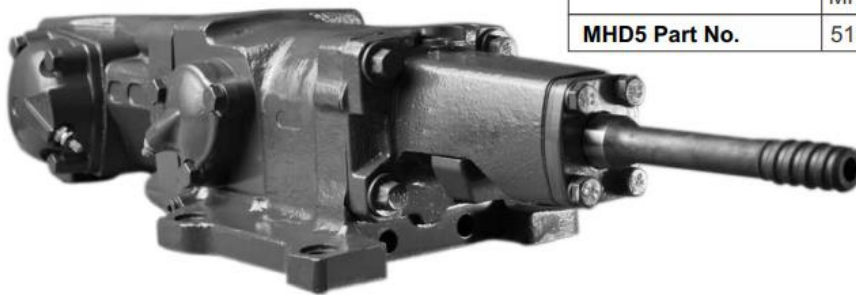
MHD100

Model No.	Weight	Length	Hole diameter drilling	Operating pressure Percussion	High pressure (HP)	Low pressure (LP)	Chuck Size	Ordering Part No.
MHD100	50 kg (110 lb)	479 mm(18.86 in)	22-45 mm(0.86-1.77 in)	100 - 180 bar 1470-2646 psi	50 bar (725 psi)	4 bar (58 psi)	22x108 mm	5113 206 000

MHD5 Hydraulic Drifter

Key Features

- One of the most popular hydraulic rockdrills in the world
- Designed for face, bolt, and long hole drilling
- Compact, robust, and reliable design
- High energy efficiency and penetration rate
- Module construction and visual wear indicators for excellent serviceability
- Continuous shank lubrication with fume reduction design



Specifications	
Weight	210 kg
Hole diameter drilling	43 - 64 mm
Hole diameter reaming	76 - 127 mm
Power class	20 kW
Percussion rate	67 Hz
Operating pressure	
Percussion	120 - 220 bar
Rotation (max.)	175 bar
Shanks	45 mm / T38 / R32 / T35 / R38 / T45
Rotation motor type	OMS 80, OMS 125 or OMS 160
Drill steels	R32, R39 or Hex 35 mm drifter rods, MF-rods highly recommended
MHD5 Part No.	5113 210 000

MHD1838 Hydraulic Drifter

Key Features

- One of the most popular rockdrills in the world
- High torque & high efficiency rockdrill
- Optimized rock contact with dual-damping to prevent damage from jerking
- Powerful, stepless, and reversible rotation motor for high efficiency drilling and low jamming risk
- Same size impact piston & drill steel for minimizing drill steel stress
- Efficient rock flushing for better bit life
- Genuine service kits available for optimal rockdrill performance



Specifications	Metric	Imperial
Weight	175 kg	386 lb
Length without shank adapter	1008 mm	3 ft 3.6 in
Width including connectors	251 mm	9.9 in
Height	223 mm	8.8 in
Height over drill center	88 mm	3.5 in
Impact power (maximum)	18 kW	24 hp
MHD1838 Part No.	5113 201 000	



DESIGN AND VALUE ENGINEERING

In different phases, from design concept to construction drawings, Tachib has become experts in providing design services by well-trained professionals, bringing innovative ideas, significant value engineering for cost reduction, quick processing of permits and reviews to contractors, partners, and owners in accordance to both local and international standards.



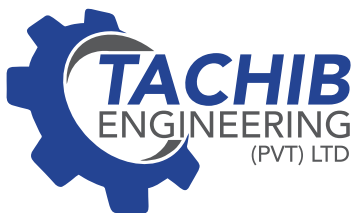
CNC PRECISION MACHINING

Tachib is an advanced precision engineering company at the forefront of CNC machining techniques and manufacturing technology. Strategically based in the Harare, Tachib has become synonymous with the production of high-value, quality critical, yet affordable CNC machined components via state of the art manufacturing and inspection process techniques with the best CNC milling machines.

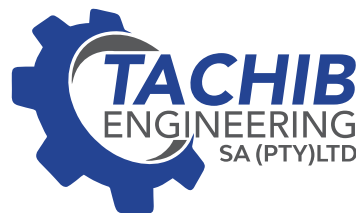
From initial concept through to product development, manufacture, and verification, Tachib are in a unique position to guide clients through each stage and are committed to the successful outcome of any project, however small, on time, within budget and 'right first time'.

We specialise in machining the following:

- Machining of Tapered Mining Drill Steels
- Machining of Couplings and Adaptors
- Machining of Subsavers and Rods
- Machining of Bolts and Nuts
- Machining of Hose Fittings
- Machining of Shafts



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