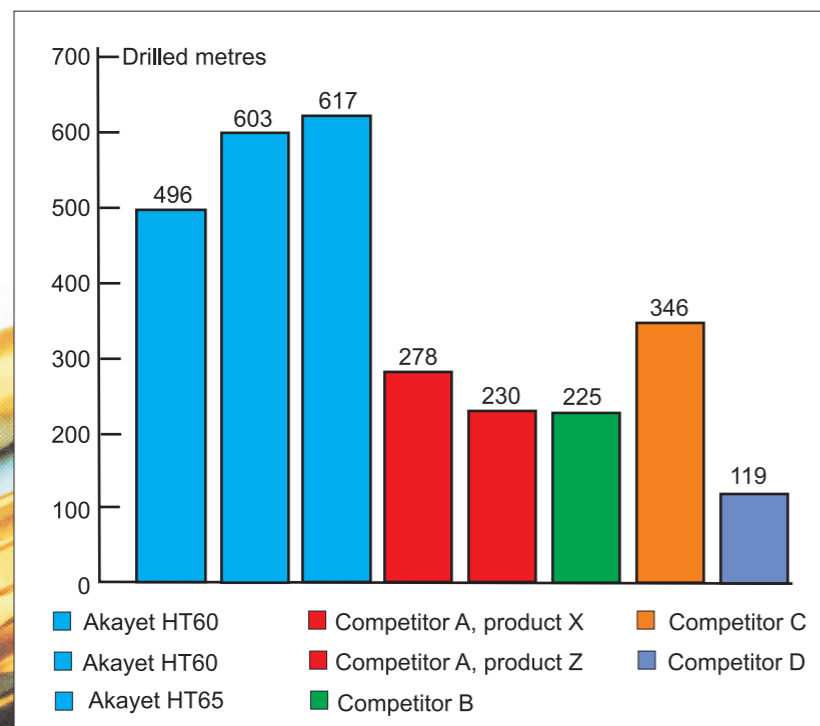


**Akayet High Technology button bits for drifting
benching and DTH-drilling**



www.akayetgh.com

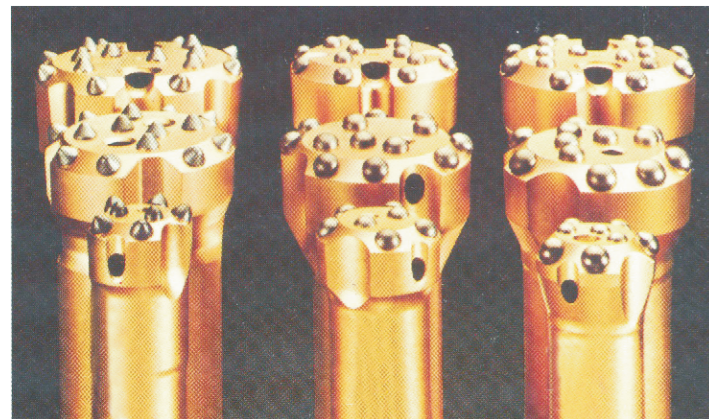
DOWN THE HOLE HAMMER • HAMMER BIT • DRILL STEEL EQUIPMENT • EXTENSION DRILLING EQUIPMENT



P.O. Box KIA 9116, Airport - Accra Tel.: (+233) 21-275286 Fax: (+233) 21-275287
Location: 42 Queens Street near Been-To Complex, Kwashieman - Accra
www.akayetgh.com

Button bits

Integral Drill Steel



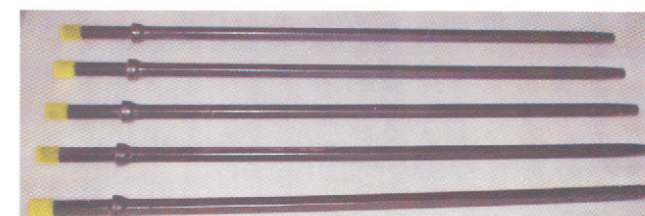
The Akayet HT button product range consists of some 100 bit versions, covering hole diameters from 35 up to 165mm

Application	Rock formation		NON-ABRASIVE	ABRASIVE	HIGHLY ABRASIVE
	Thread type, dimension				
DRIFTING AND TUNNELLING	R25, 35 - 41 mm R28, 38 - 43 mm R32, 45 - 51 mm		CB DP 55	Normal DP 60	Heavy Duty DP 60 DP 65
BENCH DRILLING	R25, 38 - 41 mm R28, 38 - 51 mm R32, 48 - 57 mm T38, 64 - 89 mm T45, 76 - 115 mm T51, 89 - 127 mm S51, 89 - 127 mm		CB DP 55	Normal DP 60 DP 65	Heavy Duty DP 60 DP 65
DTH DRILLING	Hammer size: 3", 85 - 100 mm 4", 105 - 125 mm 5", 130 - 140 mm 6", 150 - 165 mm		CB DP 55	Normal DP 60	Heavy Duty DP 60 DP 65

The DP button bit range for drifting, benching and DTH-drilling is comprised of CB bits for non-abrasive rock, Normal button bits for all-round applications and Heavy Duty bits with extra large buttons for highly abrasive rock. All available with different DP cemented carbide grades and different designs



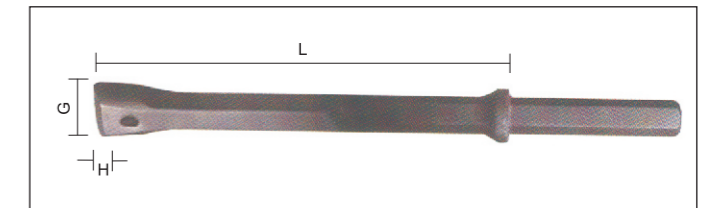
Tapered Rod



Length		Shank & Tapered Rod Size
mm	ft in	
400	1' 1 3/4"	H22 x 108 x 6° TAPER
800	2' 7 1/2"	
1200	3' 11"	
1600	5' 3"	
2450	7' 10"	
3250	10' 6"	

* Any other Tapered angle and length will be supplied on your request

Integral Drill Steel



Effective Length (L)		Gauge (G)	T/C Tip Size (T x H)
mm	ft in	mm	
800	2' 7 1/2"	34	10 x 18
1600	5' 3"	33	
2400	7' 10"	32	
3200	10' 6"	31	
4000	13' 1"	30	
4800	15' 9"	29	
5600	18' 4"	28	10 x 18
6400	21'	27	
800	2' 7 1/2"	40	
1600	5' 3"	39	
2400	7' 10"	38	
3200	10' 6"	37	
4000	13' 1"	36	
4800	15' 9"	35	
5600	18' 4"	34	



Self-drilling grouting bolt

It is very common for underground works to encounter soft surrounding rock, fractured zone and great deformation due to high ground stress. It is difficult for anchor work, especially under the condition that serious hole collapsing occurs and extra-long bolt is needed, while it is impossible to solve the problem with ordinary bolt. This self-drilling bolt embodies drilling, grouting and anchoring as a whole and can improve the condition of surrounding rock in the course of deformation due to high ground stress.

1. Spherical nut: To transmit the stress of surrounding rock to the plate.
2. Anchoring plate: To bear higher stress of surrounding rock.
3. Grout stopper: To keep grouting at certain pressure to fully fill the clearance of surrounding rock.
4. Anchor body: It has the international standard wave-shape connecting thread and is very easy to be installed with bit, coupling and fasten nut. It can also be cut or connected very freely.
5. Coupling: It can realize the purpose of enlongating to the designed depth while drilling.
6. Bit: It has strong ability of penetrating, so the anchor can pass through various rock with it.



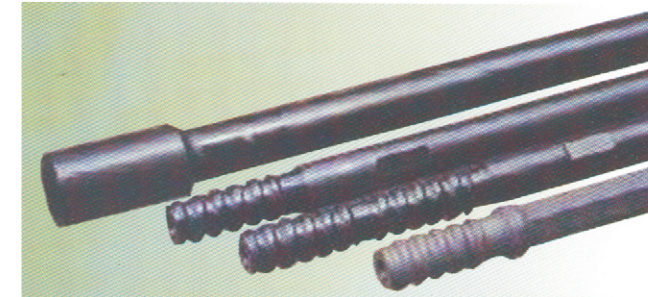
Technical Parameters

Type	R25	R27	R32	R38	R51
Dia./wall thickness (mm)	25/5.5	27/6.0	32/6.0	38/7.0	51/8.0
Tensile strength (KN)	180	230	260	380	600
Tensile strength (Mpa)	600	600	600	600	600
Weight (kg/m)	2.5	3.0	3.6	5.2	8.0
Drill bit Diameter	42	44	51	64	76
Thread direction	left				
Standard Length (m)	3.0, 3.5, 4.0, 4.5				
Length error	2.5%				
Drill depth	More than 12m				

Spare specifications

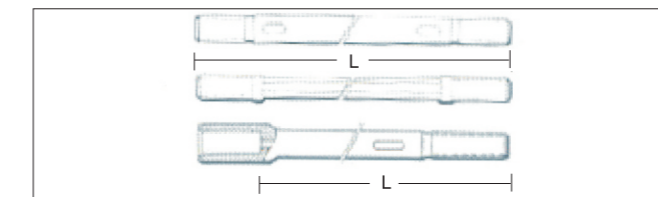
Name	Specifications				
Anchor bolt	R25	R27	R32	R38	R51
Carbide Cross/button Bits (mm)	R25	R27	R32	R38	R51
Coupling (mm)	R25 / Dia.36	R25 / Dia.36	R32 / Dia.44	R38 / Dia.50	R51 / Dia.63
Grout stopper (mm)	R25 / Dia.55	R25 / Dia.65	R32 / Dia.70	R38 / Dia.78	R51 / Dia.91
Plate (mm*mm*mm)	150*150*8	150*150*8	150*150*8	200*200*10	200*200*10
Nut (mm)	R25/W41/L30	R27/W47/L38	R32/W55/L46	R38/W55/L45	R51/W80/L50
Steel shank & Drill cover	R25/25	R25/27	R25/32	R32/38	R32/51
Grouting joint	R25	R27	R32	R38	R51

EX - Rod / MF - Rod

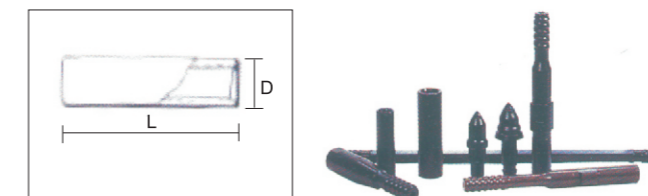


Length (L)		R.8
mm	ft in	
3050	10'	R32 x 32R x R32 R38 x 39R x R38 T38 x 39R x T38
3660	12'	T38 x 39R x T38 T45 x 46R x T45 T51 x 52R x T51

* We provide special size on request



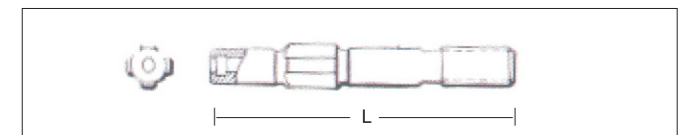
Coupling Sleeve / Adapter



Thread	Dimension	
	(D)mm	(L)mm
R32	44	150
R38	55	190
T38	55	190
T45	63	210
T51	71	225
T38 / R38	55	185
T38 / T45	63	220

* We provide special size on request

Shank Adapter

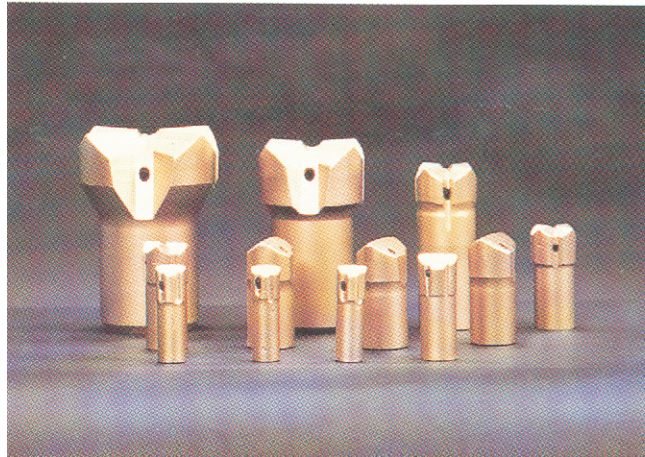


Rock Drill Type	Thread	(L)mm
VL 140	T38	380
PD 200	T38	484
COP 131	T38	380
HD 300	T38	655
HD 609	T38	620
HL 500	T38	550
HL 600	T38	525
VCR 360	T38	410
COP 1238	T38	575
COP 1550	T38	575
HD 612	T45	700
YH 65	T45	500
HC 120R	T45	490
YH 95RPS	T45	840
HL 1000	T51	670

* Other models are also available. Please inquire us



Threaded Bit



● **Cross & X-Type Bit**

Gauge (0)		Type	Thread
mm	in		
38	1 1/2"	- Cross	R25, R28, R32, R38 Rope Thread
41	1 5/8"		
45	1 3/4"		
51	2"		
64	2 1/2"	- X-Type	T38, T45 Trapezoid Thread
76	3"		

* Any other type & size will be supplied on your request

● **Tapered Bit (H22 x 6°)**

Chisel Type		Cross Type	
Gauge (0)		Gauge (0)	
mm	in	mm	in
30	1 3/16"	38	1 1/2"
32	1 1/4"	40	1 37/64"
34	1 11/12"	45	1 3/4"
36	1 7/16"	51	2"
38	1 1/2"	-	-
40	1 37/64"	-	-

* Any other Tapered angle & size will be supplied on your request

● **Button Bit**

Gauge (0)		Gauge (0)	Gauge (0)	
mm	in			
35	1 3/8"	- Flat Face - Drop Center - Retrac - Spherical - Ballistic - Conical	R25, R28, R32, R38, Rope Thread	
38	1 1/2"			
41	1 5/8"			
43	1 11/16"			
45	1 3/4"			
48	1 7/8"			
51	2"			
57	2 1/4"			
64	2 1/2"			
76	3"			
89	3 1/2"			T38, T45, T51 Trapezoid Thread
102	4"			
115	4 1/2"			
127	5"			
152	6"			

* Any other type and size will be supplied on your request

● **Diamond abrasive cup wheel**



Wet grinding
Single row, double row, and turbo cup wheel
Super fast and smooth grinding, perfect flatness, minimum chipping, long lasting.
Excellent performance in grinding granite, marble, ceramic and other hard materials.

Diameter	Out Diameter	Hole Diameter	Thickness	Height
Single	4" (105)	DM/22.23/20/15.88	5	7
	4.5" (115)	22.23/20/15.88	5	7
	5" (125)	22.23/20/15.88	5	7
	6" (150)	22.23/20/15.88	5	7
	7" (180)	22.23/15.88	5	7
Double	4" (105)	DM/22.23/20/15.88	5	7
	4.5" (115)	22.23/20/15.88	5	7
	5" (125)	22.23/20/15.88	5	7
	6" (150)	22.23/20/15.88	5	7
	7" (180)	22.23/15.88	5	7
Turbo	4.5" (115)	22.23/ (screw thread)	5	7
	5" (125)	22.23/ (screw thread)	5	7
	7" (180)	22.23/ (screw thread)	5	7

● **Flexible polishing pad**

Wet polishing
Excellent performance in polishing, good flexibility, bright and uniform surface without defects on the edges.
Effective on convex, concave or flat surface of crystal, carnelian, optics-glass, ceramic, etc.
Widely used for polishing surface of granite, marble and terrazzo, etc.



Specification Unit: mm

outer diameter	grif	max speed (R.PM)
3" (80)	50# - 3000#	8600
4" (100)	50# - 3000#	6300
5" (150)	50# - 3000#	3200



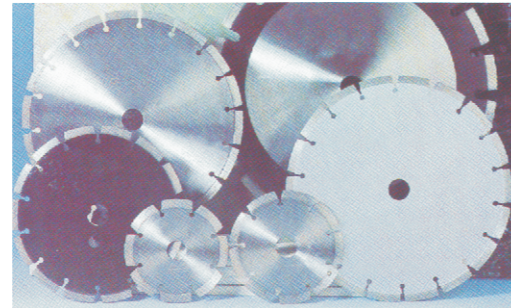
● Diamond laser welded saw blade

Dry / Wet cutting

Provides maximum performance, welding strength, safety, smooth, chip-free cutting and extremely long life.

Widely used in cutting granite, marble, reinforced concrete, ceramic, asphalt, refractory materials etc.

Special silent core is available, which gives a drastic reduction of noise.



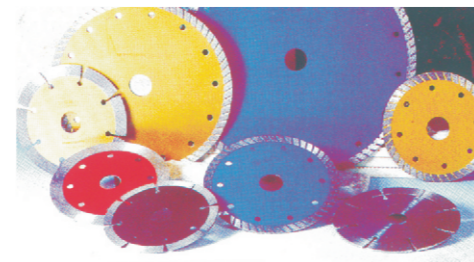
Outer Diameter Inch	Outer Diameter (mm)	Hole Diameter (mm)	core thickness (mm)	Segment Dimension (mm) thickness height length	Segment Number	Weight (Kg)
4"	105	20 / 22.23 / 25.4 / 50	1.2	1.8 7 33.4	8	0.09 / 0.12
4.5"	115	20 / 22.23 / 25.4 / 50	1.2	2.0 7 32	9	0.11 / 0.18
5"	125	20 / 22.23 / 25.4 / 50	1.5	2.0 7 32	10	0.12 / 0.2
6"	150	20 / 22.23 / 25.4 / 50	1.5	2.2 7 33	11	0.2 / 0.3
7"	180	20 / 22.23 / 25.4 / 50	1.8	2.4 7 35	13	0.25 / 0.4
8"	200	20 / 22.23 / 25.4 / 50	1.8	2.4 7 40	13	0.4 / 0.5
9"	230	20 / 22.23 / 25.4 / 50	1.6	2.5 7 40	16	0.5 / 0.7
10"	250	20 / 22.23 / 25.4 / 50	1.8	2.5 7 40	17	0.6 / 0.9
12"	300	22.23 / 25.4 / 50	1.8	2.8/3.2 7 40	21	0.9 / 1.1
14"	350	22.23 / 25.4 / 50	2.2	3.2 7 40	24	1.2 / 2.0
16"	400	22.23 / 25.4 / 50	2.4	3.4 7 40	28	2.6
18"	450	22.23 / 25.4 / 50	2.8	3.6 7 40	32	3.0
20"	500	22.23 / 25.4 / 50	2.8	4.0 7 40	36	4.0
24"	600	22.23 / 25.4 / 50	3.5	4.6 7 40	42	7.0

● Diamond sintered saw blade

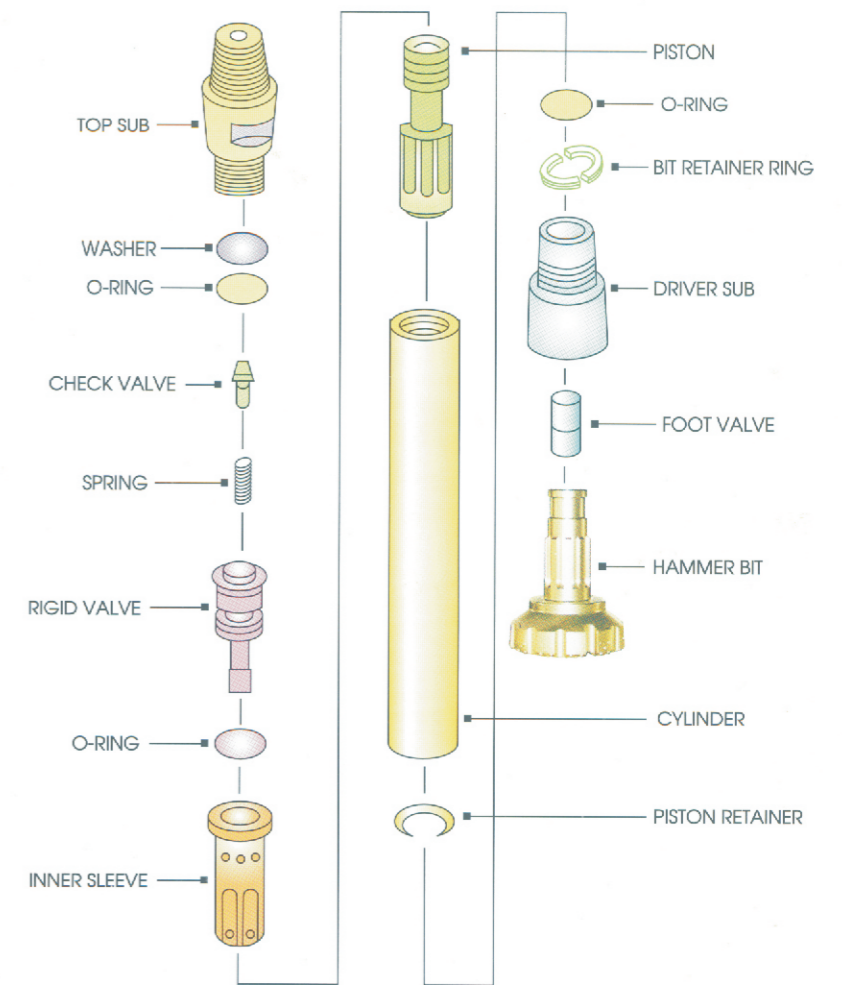
Dry / Wet cutting segment, continuous rim and turbo offers

safety, good cutting speed and life at competitive price.

For cutting wide variety of materials including ceramic, marble, granite, concrete, asphalt, refractory, etc.



Diameter Inch (mm)	Steel core thickness (mm)	Hole Diameter (mm0 (mm)	Segment thickness (mm)	Segment Height (mm)	Weight (Kg)	
4"	105	1.2	20 / 22.23	1.7 / 1.8 / 2.2	5/7	0.09 / 0.12
4"	110	1.2 / 1.4	20 / 22.23	1.7 / 1.8 / 1.9 / 2.0 / 2.2	5/7	0.1 / 0.15
4"	115	1.2 / 1.4	20 / 22.23	1.7 / 1.8 / 1.9 / 2.0 / 2.2	5/7	0.11 / 0.18
5"	125	1.2 / 1.4	20 / 22.23	1.7 / 1.8 / 1.9 / 2.0 / 2.2	5/7	0.12 / 0.2
6"	150	1.4	22.23	1.9 / 2.0 / 2.4	5/7	0.2 / 0.3
7"	180	1.4 / 1.6	22.23	1.9 / 2.1 / 2.2 / 2.4 / 2.8	5/7	0.25 / 1.4
8"	200	1.4 / 1.6 / 1.8	22.23	2.0 / 2.1 / 2.3 / 2.4	5/7	0.4 / 0.5
9"	230	1.6 / 1.8	22.23	2.1 / 2.2 / 2.3 / 2.4 / 2.5 / 3.0	5/7	0.6 / 0.7
10"	250	1.6 / 2.0 / 2.2	22.23	2.5 / 2.6 / 2.8 / 3.0 / 3.4	5/7	0.6 / 0.9
12"	300	1.6 / 2.0 / 2.2	22.23	2.5 / 2.6 / 3.0 / 3.2 / 3.4 / 3.6	5/7	0.9 / 1.1
14"	350	2.2 / 2.4	22.23	3.2 / 3.4 / 3.6 / 3.8	5/7	1.2 / 2.0



● Specification

Hammer Model	Hole Size (mm)	Hammer DIA.(mm)	Cylinder Bore(mm)	Piston Stroke (mm)	Piston Weight(kg)	Length (mm) (w/o bit)	Weight (kg) (w/o bit)
DH-275	300 to 445	275	216	110	128	1,908	650
DH-330	350 to 540	330	248	115	164	1,897	1,050
DH-350	445 to 630	350	280	130	186	1,920	1,230
DH-430	508 to 810	430	355	150	250	1,970	2,130

* Specifications are subject to change without notice.

* Small size DTH Hammer is also available. Please inquire us.



Foundation work with DTH hammer & bit



● **Specification**

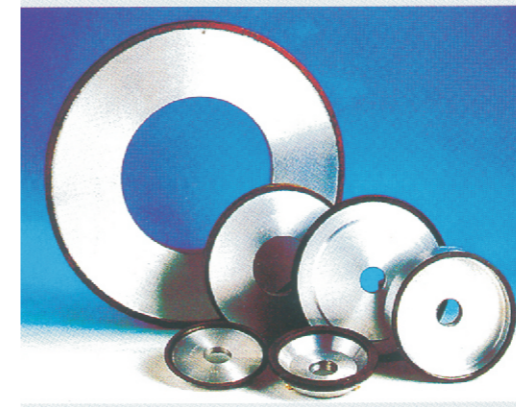
Hammer Model	BIT Size in (mm)	BIT Weight (about) kg (lb)	Front Design
DH - 275	13" (330)	185 (407)	Concave, Flat
	15" (381)	218 (480)	
	17 1/2" (445)	240 (529)	
DH - 330	15" (381)	230 (507)	Concave, Flat
	17 1/8" (435)	255 (562)	
	17 1/2" (445)	268 (590)	
	19" (483)	280 (617)	
	21" (533)	300 (661)	
DH - 350	17 1/2" (445)	290 (640)	Concave, Flat
	21" (533)	413 (910)	
	25" (635)	560 (1234)	
DH - 430	20" (508)	530 (1168)	Concave, Flat
	25" (635)	585 (1289)	
	32" (810)	702 (1547)	

* Small size DTH Bits are also available. Please inquire us.

● **Application of D.T.H. Hammer Bit**

Type	Typical shape	Application
Flat face		These bits are designed to drill the hard formations faster. They have high resistance to abrasive wear and accept heavy compressive loads to achieve great penetration rates
Concave		These bits are used in all formations from medium to very hard. Concaved relief grooves provide great efficiency in the larger sizes.
Convex		These bits are designed to drill the soft formations faster. Grooves in the face allow removal of cuttings fast.

● **Synthetic Diamond Grinding Wheels**



Synthetic diamond grinding wheels are mainly used in the grinding of various hard carbide, special-shaped surfaces and work pieces made of hard-brittle nonmetal materials with surface finish requirements or with difficult-to-machine surface. We provide synthetic diamond grinding wheels with different categories and size. In addition, all kinds of orders are warmly accepted according to specific customers requirements.

● **Accessories of core drilling tools**



- Core barrel
- Thread joint pin
- Joint pin of drilling rod
- Joint pin of rock-core barrel
- Joint pin of mini-diameter (Male/Female)
- Wireline drill tools-joint pin of drilling rod (Male/Female)

● **Diamond glass cutter**

Diamond Glass Cutter, Oil Rolling Glass Cutter, Wheel ceramic tile cutter, Six wheel cutter, Wheel cutter, Ceramic Tile Cutter, Diamond Corrector Pen, Glass Hole Digger, Ceramic Tile Cutter Wheel, Diamond Cutting Pen, Diamond Mounted Point Sets, Template, Indenter, Tile and Glass Drills, Lather Knife, Glace Lace Pliers, Bronze Emery and Stiletto, Bow Compass Cutter Series, Glass Vacuum Suction Lifter, etc



Internal-Combustion Rock Drill

Special Equipment

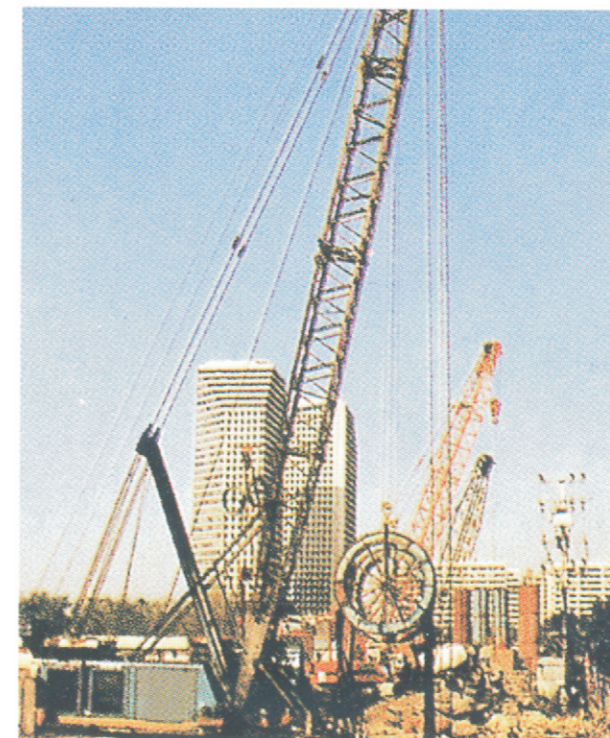
Model	YN27J (YN27A)	YN30A
Weight (kg)	26-27.5kgs	28kgs
Overall dimension (mm)	746x315x229	-----
Diamension of engine piston (mm)	58	58
Stroke of engine piston (mm)	70	70
Rotating speed of engine with load (rpm)	2450	2700-3000
Drilling speed (mm/min)	250	200
Oil consumption (l/m)	0.121	0.131
Max. Drilling depth (m)	6	6
End of tool shank (mm)	Hex 22x108	Hex 22x108
Front end of breaker (mm)	Hex 22x108 (Hex 25x108)	Hex 25x108



Crawler Drill



Pile Driver



Hydromill



T4-W



Pneumatic Pick Model G10

It is mainly used for coal mining or breaking concrete and frozen ground in building and installing engineering.

Technical specifications:

Weight: 10.6kg

Overall length: 575mm

Working air pressure: 0.49Mpa

Blow energy: 39.3J

Blow frequency: 18.4Hz

Air consumption: 20L/s

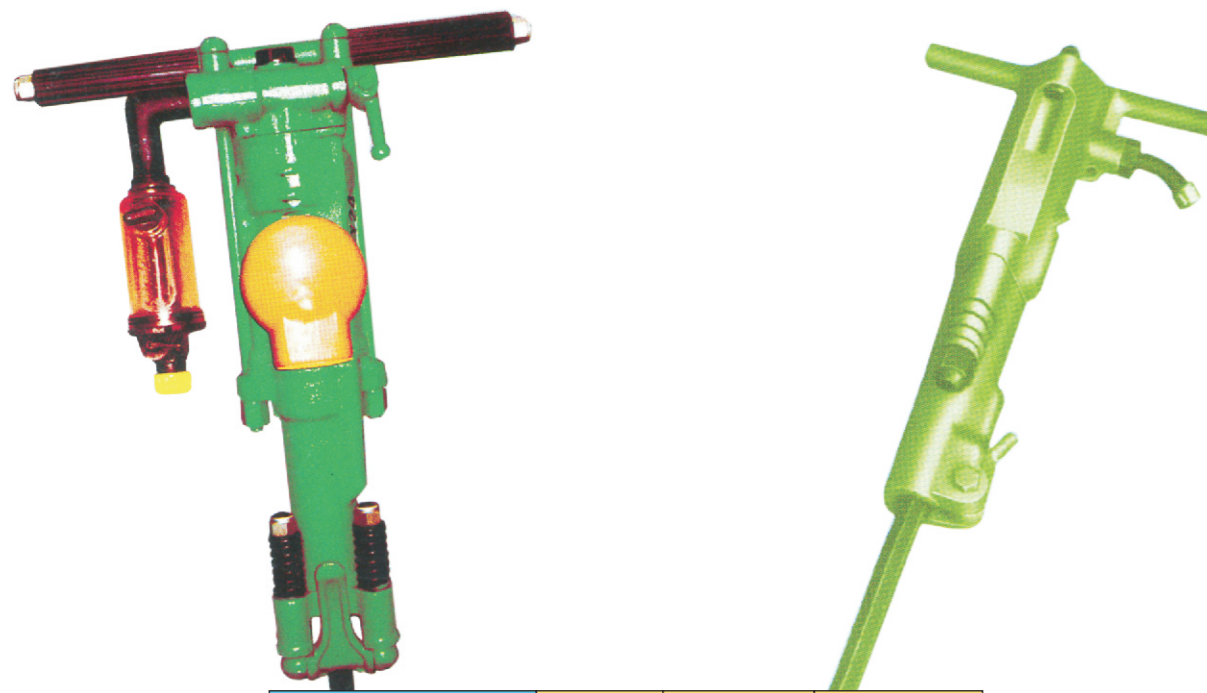
Air hose ID: 16mm

Shank dimensions: ϕ 25x75 (ϕ 24x70)



Hand-held rock drills

Hand-held or air leg rock drills

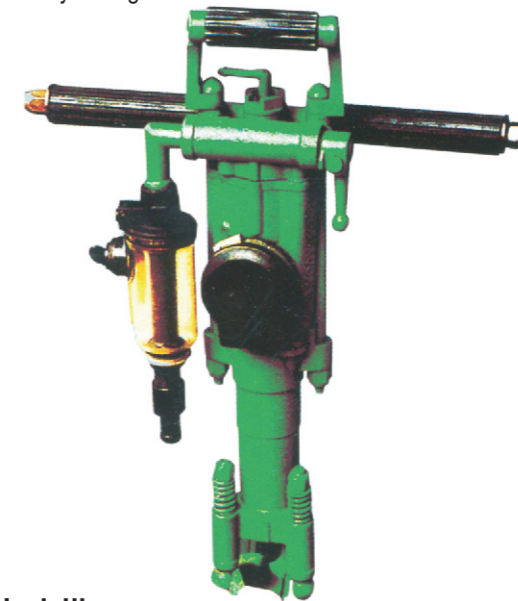


Model	Y6	Y20	Y24/YH24
Weight (kg)	6	18	24
L *W *H (mm)	420	605*485*110	605*485*158
Air consumption (L/s)	9.5	25	55
Working pressure (Mpa)	0.4~0.63	0.4~0.63	0.4~0.63
Hose size (air) (mm)	13	16/19	19
Hose size (water) (mm)	-	-	-
Bore dia. (mm)	20	34-42	34-42
Drilling depth (m)	-	3	5
Shank size (hex*I) (mm)	15*88	22*108	22*108

* Y20 and Y24 are intended for dry drilling, while Yh24 for wet drilling.

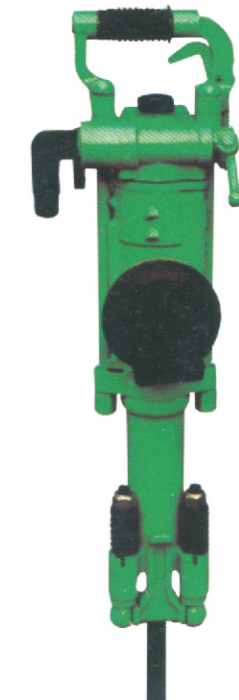
Model	YO18	Y19A	Y20Y/Y20LY	Y26	Y27
Weight (kg)	18	19	18	26	26
L *W *H (mm)	520*262*180	650*534*157	609*198*135	600*543*125	655*334*170
Air consumption (L/s)	20	≤37	≤25	≤47	≤47.5
Air hose size (mm)	-	19	16/19	19	25
Water hose size (mm)	-	13	8	13	13
Bore dia. (mm)	-	34-40	34-42	34-42	34-42
Drilling depth (m)	-	3	3	5	5
Air pressure (Mpa)	0.4-0.5	0.4	0.4	0.4	0.4
Shank (mm)	22 x 108	22 x 108	22 x 108	22 x 108	22 x 108

* Suitable for operation on medium-hard and hard rock with hand-held or air-leg, either used for wet drilling or for dry drilling.



● Air leg rock drills

Model	YT24	YT27	YT28
Weight (kg)	24	26	28
L *W *H (mm)	678*228*184	668*248*202	661*247*195
Air consumption (L/s)	80	55	85
Air hose size (mm)	19	25	25
Water hose size (mm)	13	13	13
Bore dia. (mm)	34-42	34-42	34-42
Drilling depth (m)	5	5	5



* Fit for wet drilling in medium-hard or hard rock. YT28 is superior in its high efficiency, strong flushing and power torque.

