POWER DRILL

DRILLING & SPECIAL EQUIPMENT

CATALOG 2017

COMPANY

Drilling equipment, special services and drilling rigs new or reconditioned.

We supply the highest quality equipment for your projects such as DTH hammers, rock bits, tricone bits, rock drilling tools, hydraulic machines and piling rig machines new and used.

No matter where your project is located, we deliver worldwide.

Over the years Power Drill has built a strong foundation as a reliable vendor within its worldwide network. Are you looking for a high quality used or new driving equipment.

Almost equipment are immediately available and deliverable.

PRUDUCTS

We have a wide range of DTH Hammers and Buttons Bits, Eccentric and Concentric systems for drilling with casing in soft formations and with presence of boulders and rock. Our buttons bits are built with special and secret steel, equipped with side buttons on the shoulders to keep constant the diameter of the hole. All the shank available in stock.

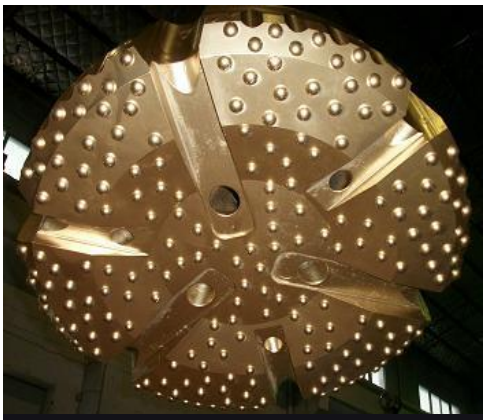
The Drag Bits and Tricone Rock Bits to teeth and inserts, both new and regenerated suitable for air perforations, or with mud fluids. The Tricone Rock bits are categorized based on the IADC codes (International Association of Drilling Contractors) for different applications.

The length and the profile of the teeth and of the inserts ranging in determining the feed rate, the discharge of the materials and the resistance of the single chisel consumption. Both are available with open or sealed bearings, with and without cooling.

POWER DRILL
DRILLING & SPECIAL EQUIPMENT

All our products:

- DTH Hammers & B. Bits
- Tricone Rock Bits and Drag Bits
- Shock absorber
- Casing and Casing Shoe
- Frictioned Drill Roads
- Mud pumps
- Diamond Bits for core barrel
- Drillling rigs new or reconditioned
- Other equipment



DTH HAMMERS

From the need to obtain a versatile and suitable hammer for drilling all types of natural rocks in any operating condition, are born the Power Drill hole hammers, the final result of extensive studies and worksite tests, designed to operate both at high and low pressures, ensuring top-class standard.

The use is manifold: execution of civil works, water wells, consolidation works and quarries.

The realization of the Power drill hole hammers and the entire production cycle is executed in establishments of latest generation, with numerical control equipment, for the creation of every single detail of the hammer.

Durability, reliability, performance, low air consumption, these are the main features of the hole hammers, ever evolving and improvement with continuous investments in research and development already started a dozen years ago.

Each individual component and heat treatment on the materials is made in a single production center to ensure a total control over the entire production cycle.

Each selected material is certificate and all hammers are subjected to final testing before they leave the production in order to ensure the highest product quality.

Hammer model	Hole size (mm)	Hammer dia (mm)	Weight (kg)	Lenght (mm)	Thread connection
Power Drill DTH 2	70-76-80	62	13	810	RD40 Box or RD50 Box
Power Drill DTH 3	90-100 (110 oversize)	79	28	991	API 2 3/8" REG PIN
Power Drill DTH 4	105-130 (152 oversize)	98	38	1.045	API 2 3/8" REG PIN
Power Drill DTH 5	140-165 (180 oversize)	124	85	1.214	API 2 3/8" REG PIN or API 3 1/2" REG PIN
Power Drill DTH 6	152-216 (254 oversize)	142	98	1.300	API 3 1/2" REG PIN
Power Drill DTH 8	203-254 (320 oversize)	180	190	1.522	API 4 1/2" REG PIN
Power Drill DTH 10	254-305 (381 oversize)	225	338	1.575	API 6 5/8" REG PIN
Power Drill DTH 12	302-445 (550 oversize)	272	675	1.909	API 6 5/8" REG PIN
Power Drill DTH 14	350-508	320	1.100	1.941	API 6 5/8" REG PIN
Power Drill DTH 18	458-660	406	1.608	2.185	API 8 5/8" REG PIN
Power Drill DTH 24	610-864	533	2.510	2.355	API 8 5/8" REG PIN

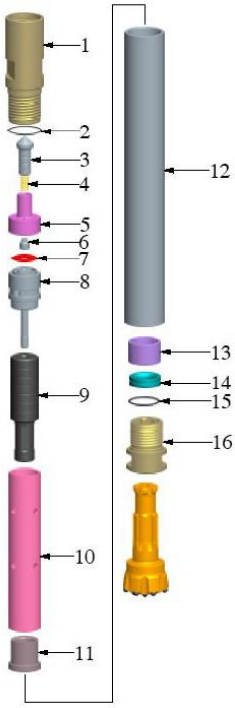
POWER DRILL DTH 2

Data sheet

Nr	DESCRIPTION	U.M.	Value
1	Hammer Length(w/o bit)	mm	810.0
2	Hammer Out side dia	mm	62.0
3	Hammer weight	kg	13.0
4	Cylinder Bore	mm	42.70
5	Piston stroke	mm	101.0
6	Piston weight	kg	1.75
7	Hole size	mm	70-76-80
8	Wrench Size A/Flat	mm	47.0
9	Top Sub thread connection	RD40 Box or RD50 Box	
10	Suitable shank		BR2

	Bar	m^3/min
Air consumption in m^3/min	6.8	2.5
	10.3	4.2
	13.7	6.5
	17.2	8.4

Components



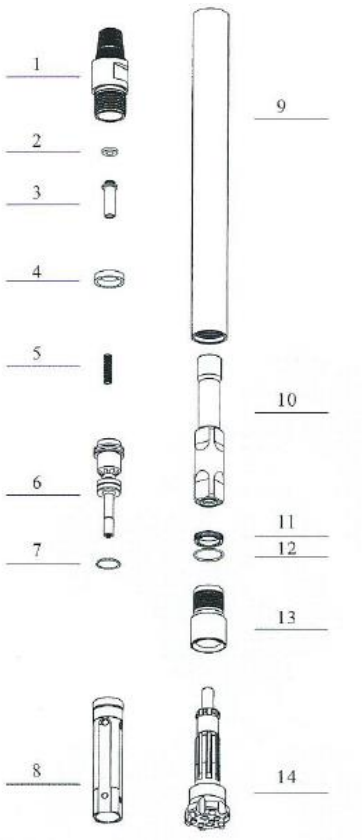
Nr	Part name	QTY	WT/KG	REC. SPARES
1	Top sub	1 No	2.40	
2	O" ring For Top sub	1 No	0.002	1 No
3	Check valve	1 No	0.05	1 No
4	Spring	1 No	0.02	1 No
5	Top valve	1 No	0.30	
6	Valve centralizer	1 No	0.03	1 No
7	Disc valve	1 No	0.03	1 No
8	Bottom valve	1 No	0.95	
9	Piston	1 No	1.75	1 No
10	Liner	1 No	1.15	1 No
11	Guide bush	1 No	0.40	
12	Wear sleeve	1 No	5.10	1 No
13	Split bush	1 No	0.20	1 No
14	Bit Retainer Ring	1 No	0.15	1 No
15	O" Ring for Bit ret ring	1 No	0.005	1 No
16	Drive sub	1 No	1.00	1 No
17	Seal kit (P.No:2,4, &15)	1 Kit	0.10	1 No
18	**Hammer Assembly**	**1 No**	**13.0**	

POWER DRILL DTH 3

Data sheet

Type	3.5		
Bit Shank	DHD 3.5		
Thread Connection	API 2 3/8" REG PIN		
Outside Dia. (mm)	79		
Length Without Bit (mm)	991		
Weight (Kg)	28		
Flat Wrench (mm)	57		
Rec. Hole Size (mm)	90-100 (110 oversize)		
Working Pressure (bar)	10.5-24		
Impact Frequency at 17 bar (Hz)	28		
Normal Axial Pressure (kN)	5.1		
Recommended Rotation Speed (r/min)	30-50		
	10.5 bar	17 bar	24 bar
Air Consumption (m^3/min)	4.4	7.3	13.8

Components



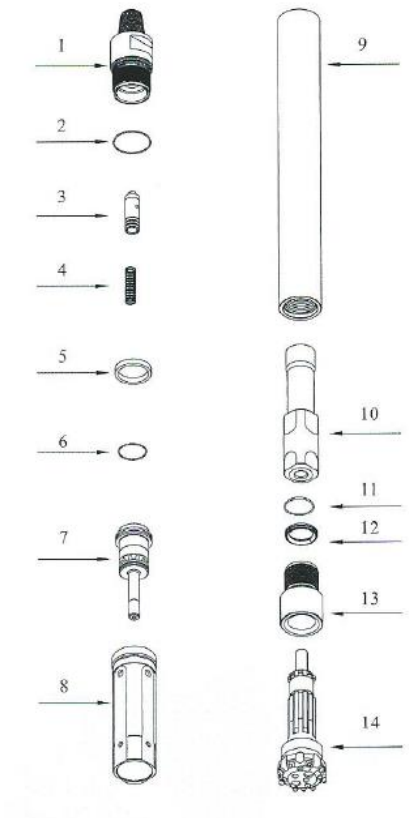
INTERNAL PARTS
1. Back Adapter
2. Rubber Ring of Bearing
3. Check Valve
4. Spring
5. Pressure Bearing Washer
6. Air Distributing Seat
7. 0-Ring
8. Inner Cylinder
9. Outer Cylinder
10. Piston
11. 0-Ring
12. Chuck Ring
13. Chuck Sleeve
14. Drill bit

POWER DRILL DTH 4

Data sheet

Type	4		
Bit Shank	DHD 340 SD 4		
Thread Connection	API 2 3/8" REG PIN		
Outside Dia. (mm)	98		
Length Without Bit (mm)	1045		
Weight (Kg)	38		
Flat Wrench (mm)	65		
Rec. Hole Size (mm)	105-130 (152 oversize)		
Working Pressure (bar)	10.5-24		
Impact Frequency at 17 bar (Hz)	27		
Normal Axial Pressure (kN)	7.1		
Recommended Rotation Speed (r/min)	30-50		
	10.5 bar	17 bar	24 bar
Air Consumption (m^3/min)	7	12	17.2

Components



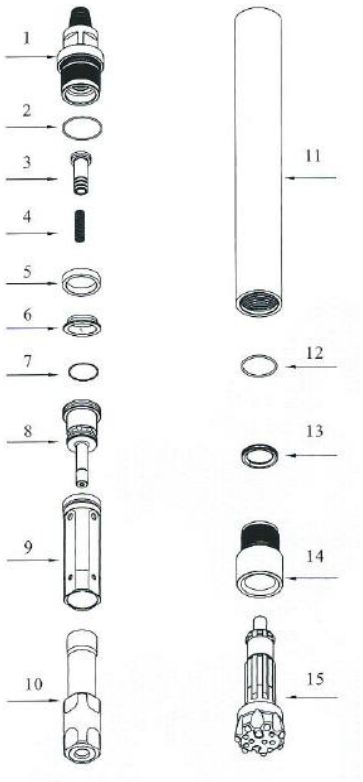
INTERNAL PARTS
1. Back Adapter
2. O-ring
3. Check Valve
4. Check Valve Spring
5. Pressure Bearing Washer
6. 0-Ring
7. Air Distributing Seat
8. Inner Cylinder
9. Piston
10. Outer Cylinder
11. 0-Ring
12. Chuck Ring
13. Chuck Sleeve
14. Drill bit

POWER DRILL DTH 5

Data sheet

Type	5		
Bit Shank	DHD 350 SD 5		
Thread Connection	API 2 3/8" REG PIN or API 3 1/2" REG PIN		
Outside Dia. (mm)	124		
Length Without Bit (mm)	1214		
Weight (Kg)	85		
Flat Wrench (mm)	74.5		
Rec. Hole Size (mm)	140-165 (180 oversize)		
Working Pressure (bar)	12-24		
Impact Frequency at 17 bar (Hz)	25		
Normal Axial Pressure (kN)	9.2		
Recommended Rotation Speed (r/min)	30-50		
	12 bar	17 bar	24 bar
Air Consumption (m^3/min)	8.27	14.9	23.4

Components



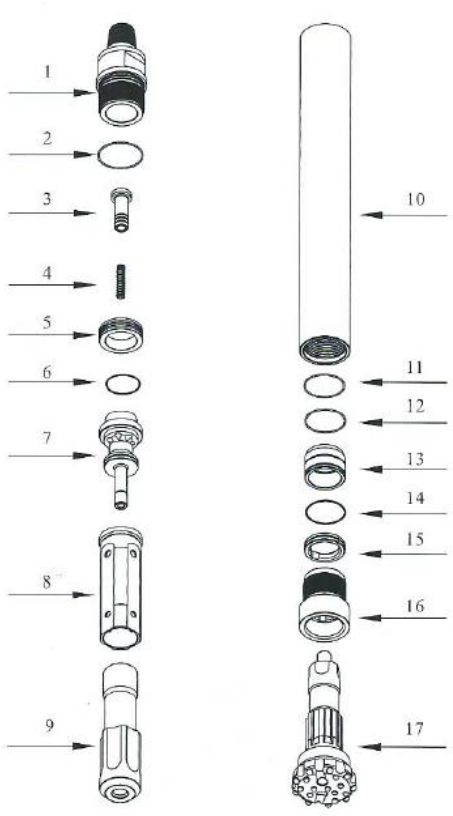
INTERNAL PARTS
1. Back Adapter
2. O-ring
3. Check Valve
4. Check Valve Spring
5. Pressure Bearing Washer
6. Rubber Ring
7. O-Ring
8. Air Distributing Seat
9. Inner Cylinder
10. Piston
11. Outer Cylinder
12. 0-Ring
13. Chuck Ring
14. Chuck Sleeve
15. Drill bit

POWER DRILL DTH 6

Data sheet

Type	6		
Bit Shank	DHD 360 SD 6		
Thread Connection	API 3 1/2" REG PIN		
Outside Dia. (mm)	142		
Length Without Bit (mm)	1300		
Weight (Kg)	98		
Flat Wrench (mm)	102		
Rec. Hole Size (mm)	152-216 (254 oversize)		
Working Pressure (bar)	14-24		
Impact Frequency at 17 bar (Hz)	23		
Normal Axial Pressure (kN)	10.2		
Recommended Rotation Speed (r/min)	30-50		
	14 bar	17 bar	24 bar
Air Consumption (m^3/min)	14.1	19.5	30

Components



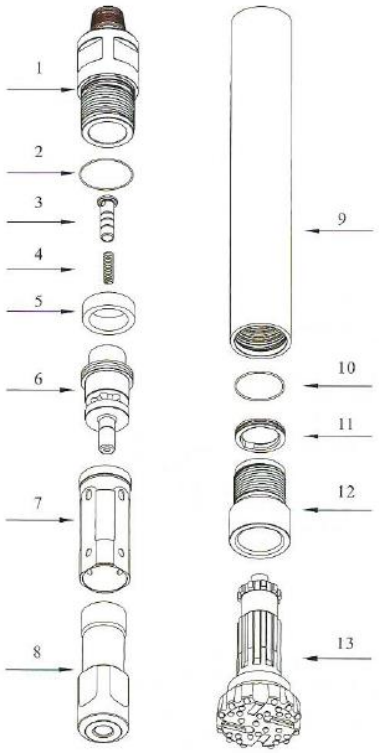
INTERNAL PARTS
1. Back Adapter
2. O-ring
3. Check Valve
4. Spring
5. Pressure Bearing Washer
6. O-Ring
7. Air Distributing Seat
8. Inner Cylinder
9. Piston
10. Outer Cylinder
11. 0-Ring
12. 0-Ring
13. Brush Drive Sub
14. 0-Ring
15. Chuck Ring
16. Chuck Sleeve
17. Drill bit

POWER DRILL DTH 8

Data sheet

Type	8		
Bit Shank	DHD 380 SD 8		
Thread Connection	API 4 1/2" REG PIN		
Outside Dia. (mm)	180		
Length Without Bit (mm)	1522		
Weight (Kg)	190		
Flat Wrench (mm)	150		
Rec. Hole Size (mm)	203-254 (320 oversize)		
Working Pressure (bar)	14-24		
Impact Frequency at 17 bar (Hz)	20		
Normal Axial Pressure (kN)	18.3		
Recommended Rotation Speed (r/min)	30-40		
	14 bar	21 bar	24 bar
Air Consumption (m^3/min)	22.5	28.2	39.6

Components



INTERNAL PARTS
1. Back Adapter
2. O-ring
3. Check Valve
4. Spring
5. Pressure Bearing Washer
6. Air Distributing Seat
7. Inner Cylinder
8. Piston
9. Outer Cylinder
10. 0-Ring
11. Chuck Ring
12. Chuck Sleeve
13. Drill bit

BUTTON BITS

We offer and exporting high quality DTH Button Bits. These Down The Hole (DTH) bits fit the most popular DTH hammers use in water welling, mining, construction and quarrying.
Power Drill button bits cover a wide range, to suit all types of DTH hammers in a large variety of size from 60 to 980mm. These Button bits have two or three flushing holes and are available in three types: Flat, Convex and Concave.
We offering a wide range of DTH Button Bits that is well known for its efficiency during drilling, high penetration rate, good flushing and very long service life has made our product favourite worldwide, appreciated for durability, dimensional accuracy, high performance and abrasion resistance.
These are manufactured using premium quality raw material, which is procured from certified vendors. The button shapes available are from standard spherical to optional ballistic, parabolic or combination of hemisphericaland and parabolic inserts, for different rock formations.

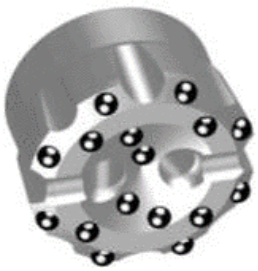
BIT FACE DESIGN

Flat face. The flat face is very aggressive in drilling applications and is suitable best for very hard rock and hard rock broken formations. Used primarily in blast hole work, the bit tends to lead off in deep holes. Flat Face bits are a general purpose bit that will work in all rock conditions but should be used especially for hard or abrasive conditions like granite, basalt, and hard limestone. Flat face bits are the best choice for drilling in a high silica environment.

Concave. Conical concavity face gives excellent penetration in medium and hard rock formations, these face features will help drill straighter holes. This face has excellent air flushing characteristics. Concave is the predominate face style for the majority of drilling conditions and are designed for unconsolidated or broken rock.

Convex face. Convex face bits are designed for fast penetration rates in softer rock like shale and limestone with low silica content.

Flat face



Concave face

Convex face

TUNGSTEN CARBIDES SELECTION

Tungsten carbide is very important in button bits. They are available in various styles and models which is suitable for any drilling conditions. Our range has long lasting performance with effective operations.

All our carbide mining button tips are made from virgin raw materials and HIP sintered for the top good quality and high performance. Durable carbide buttons with excellent fracture resistance dramatically improve the service life with the high penetration rates.

These are manufactured using premium quality raw material, which is procured from certified vendors. The buttons fit the precisely drilled holes in the bit face with proper tolerance to keep the button in its place under severe drilling conditions, but with no exceeding stresses on the button itself that can lead to breakage.

The button shapes available are from standard spherical to optional ballistic or side buttons on the shoulders, for different rock formations.

Spherical. This button is the most common shape utilized in DTH Bits. This type of shape is the strongest and most resistant to breakage. The domed shape provides excellent penetration in medium rock, hard rock and hard rock broken formations, in all types of drilling. This is the standard button that will be quoted unless specified otherwise.

Ballistic. Normally this button is used in less hard consolidated drilling formations. This type of button is very aggressive and tends to drill very quickly. However, due to the ballistic shape it is prone to breakage if used in the wrong formations. Care should be used when drilling with this type button. Ballistic buttons do yield high penetration rates and efficient rock breakage.

Side buttons on the shoulders. All our bits are equipped with additional buttons on the shoulders. These side buttons serve to guarantee less wear of the shoulders and to maintain the constant diameter of the hole for more time.

Spherical (dome)

Ballistic

Side buttons on the shoulders

SHOCK ABSORBER

We have 2 models of DTH shock absorber from 3" to 24": with inner helicoidal spring or with rubber buffers. They are recommended for all uses, mounted between the DTH Hammer and the first drill tubes, preserve the drilling machine's rotary head and all the drill tubes.

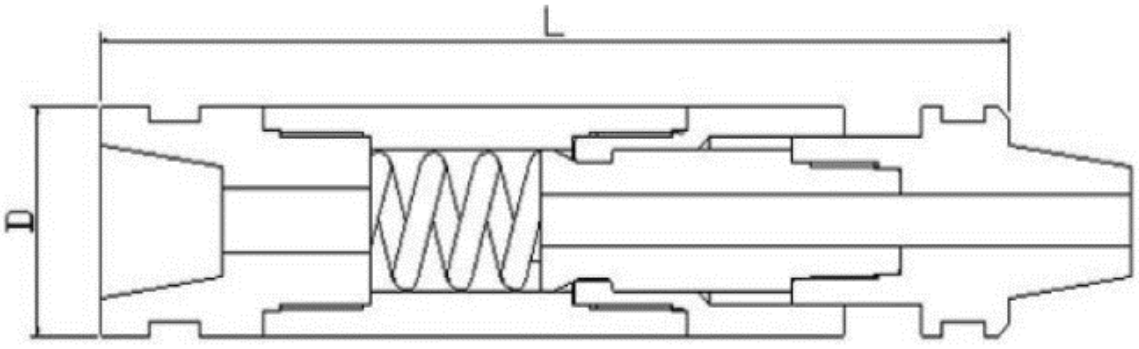
They can also be mounted directly to the rotary head.

Threads, diameters and sizing can be executed on request of the worksite in accordance with specific needs. Simple to use, require little maintenance.

Data sheet

MODEL	OUTSIDE DIAM. (mm)	LENGTH (mm)	NET WEIGHT (Kg)	THREAD
Shock Abs. PD 4	94	520	22	2" 3/8 Api Regular Pin
Shock Abs. PD 5	114	750	50	3"1/2 Api Regular Pin
Shock Abs. PD 6	140	780	65	3"1/2 Api Regular Pin
Shock Abs. PD 8	180	790	120	4" 1/2 Api Regular Pin
Shock Abs. PD 10	220	790	170	6" 5/8 Api Regular Pin
Shock Abs. PD 12	260	800	275	6" 5/8 Api Regular Pin

Layout



THREE BLADES

We have three-blades forged Step type (blade in steps) or Chevron type (straight blade), suitable for drilling in soft or medium-soft soils such as clays, sand, gravel or marl.

Three-blades are the most used, but on request it is also possible to have four-blades models.

Each blade, both on top and that on the shoulders, is provided with tungsten carbide plates.

Available threads are: N Road 2" 3/8, 3" 1/2 and 4" 1 / 2 Api Regular Pin according to the diameter of the chisel (Drag Bit).

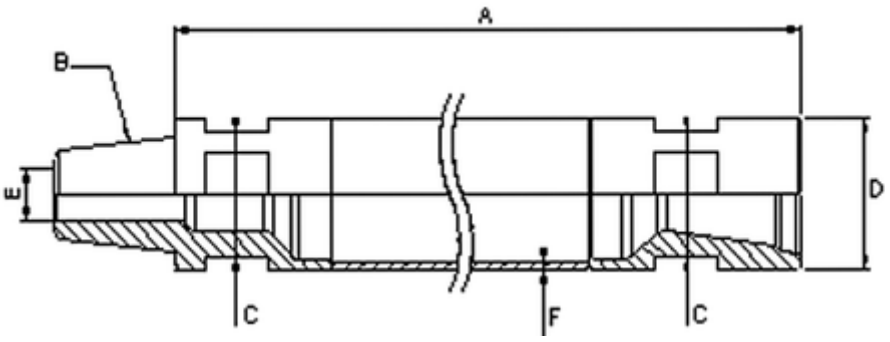
On request we can provide three blades "disposable" or non-standard threads.

The use is also suitable for jet grouting.

DRILL TUBES FRICTION

Our friction welded drill pipes, are made of carbon steel and are the result of a continuous research for materials that better fit the required mechanical characteristics for torsional stress, flexibility and compression.

We have ready in stock friction welded drill pipes with thickness of 6.3 mm (but also available on request with 4 mm or 8 mm) with diameter from 54mm to 220mm both for water well and for micropiles vertical, inclined or horizontal and directional drilling.



Diameter and thread Pin x Box	Lenght (mm)	Thickness (mm)	Weight (Kg)
54 mm RD 40 BWJ	500	6.3	4.5
	1000	6.3	9
	1500	6.3	13
	2000	6.3	17
	3000	6.3	25
76 mm 2" 3/8 Api Regular	500	6.3	7.5
	1000	6.3	15.1
	1500	6.3	20.5
	2000	6.3	26
	3000	6.3	36.8
88,90mm 2" 3/8 Api Regular	500	6.3	9
	1000	6.3	18.7
	1500	6.3	25.2
	2000	6.3	32
	3000	6.3	44.5
88,90 mm 2" 3/8 IF	500	6.3	9
	1000	6.3	25
	1500	6.3	25.2
	2000	6.3	32
	3000	6.3	44.5
114 mm 3" 1/2 Api Regular	500	6.3	15
	1000	6.3	28.6
	1500	6.3	37
	2000	6.3	46
	3000	6.3	62.2
127mm 3" 1/2 Api Regular	1000	6.3	32.3
	1500	6.3	41.6
	2000	6.3	51
	3000	6.3	69.7
140 mm 4" 1/2 Api Regular	500	6.3	28
	1000	6.3	39
	1500	6.3	49
	2000	6.3	60
	3000	6.3	80.1
152,4 mm	1500	8.8	69.28
	2000	8.8	84.86
	3000	8.8	116.03
168 mm	1500	8.8	83
	2000	8.8	100.28
	3000	8.8	134.83
180 mm	1500	8.8	95.87
	2000	8.8	114.45
	3000	8.8	151.60
194 mm	1500	8.8	114.21
	2000	8.8	134.31
	3000	8.8	174.50
** any length available on specific request*			

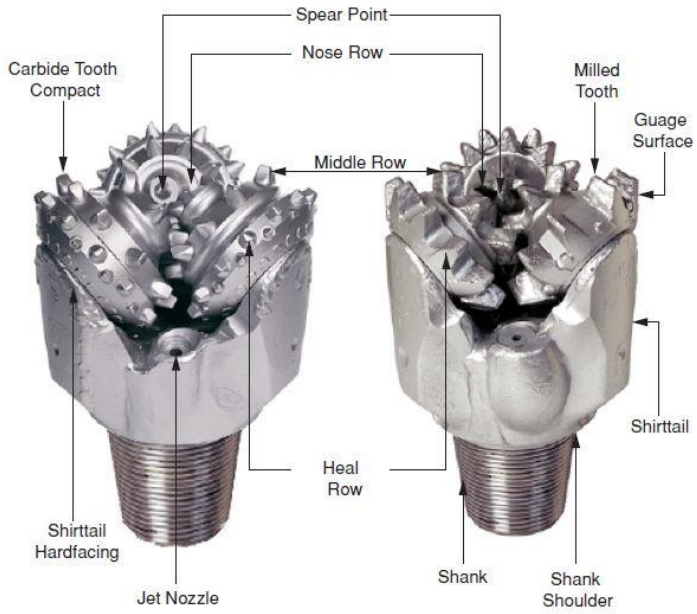
TRICONE BITS

We have Tricone Rock Bits to teeth and inserts, both new and regenerated suitable for air perforations, or with mud fluids.

The Tricone Rock bits are categorized based on the IADC codes (International Association of Drilling Contractors) for different applications.

The length and the profile of the teeth and of the inserts ranging in determining the feed rate, the discharge of the materials and the resistance of the single chisel consumption.

Both are available with open or sealed bearings, with and without cooling.



TRICONE BITS TEETH/INSERTS

DIAMETERS AVAILABLE INCH	MM	THREADS API REGULAR	WEIGHT KG	DIAMETERS AVAILABLE INCH	MM	THREADS API REGULAR	WEIGHT KG
2	50,80	N-ROD A THD	2,00	13	330,2	6 5/8	110,0
2 1/4	57,15	N-ROD A THD	2,00	13 1/8	333,4	6 5/8	110,0
2 1/2	63,50	N-ROD A THD	2,00	13 1/4	336,6	6 5/8	110,0
2 6/8	66,68	N-ROD A THD	2,00	13 3/8	339,7	6 5/8	110,0
2 3/4	69,85	N-ROD A THD	2,00	13 1/2	342,9	6 5/8	120,0
2 7/8	73,03	N-ROD A THD	2,00	13 5/8	346,1	6 5/8	120,0
3	76,20	N-ROD A THD	3,00	13 3/4	349,3	6 5/8	120,0
3 1/8	79,20	N-ROD A THD	3,00	13 7/8	352,2	6 5/8	120,0
3 1/4	82,55	N-ROD A THD	3,00	14	355,6	6 5/8	131,0
3 3/8	85,73	N-ROD A THD	3,00	14 1/8	358,8	6 5/8	131,0
3 1/2	88,90	2 3/8	3,00	14 1/4	362,2	6 5/8	131,0
3 5/8	92,08	2 3/8	4,00	14 3/8	365,1	6 5/8	131,0
3 3/4	95,25	2 3/8	4,00	14 1/2	368,3	6 5/8	131,0
3 7/8	98,43	2 3/8	5,00	14 5/8	371,5	6 5/8	131,0
4	101,6	2 3/8	5,00	14 3/4	374,7	6 5/8	131,0
4 1/8	104,8	2 3/8	5,00	14 7/8	377,8	6 5/8	131,0
4 1/4	108,0	2 3/8	7,00	15	381,0	6 5/8	131,0
4 3/8	111,1	2 3/8	7,00	15 1/8	384,2	6 5/8	145,00
4 1/2	114,3	2 7/8	7,00	15 1/4	387,4	6 5/8	145,00
4 5/8	117,5	2 7/8	9,00	15 3/8	390,5	6 5/8	145,00
4 3/4	120,7	2 7/8	9,00	15 1/2	393,7	6 5/8	145,00
4 7/8	123,8	2 7/8	9,00	15 5/8	396,9	6 5/8	145,00
5	127,0	2 7/8	13,00	15 3/4	400,1	6 5/8	145,00
5 1/8	130,2	2 7/8	13,00	15 7/8	403,2	6 5/8	145,00
5 1/4	133,4	2 7/8	13,00	16	406,4	6 5/8	185,00
5 3/8	136,5	2 7/8	13,00	16 1/8	409,6	6 5/8	185,00
5 1/2	139,7	3 1/2	13,00	16 1/4	412,2	6 5/8	185,00
5 5/8	142,9	3 1/2	13,00	16 3/8	415,9	6 5/8	185,00
5 3/4	146,1	3 1/2	13,00	16 1/2	419,1	6 5/8	185,00
5 7/8	149,2	3 1/2	16,00	16 5/8	422,3	6 5/8	185,00
6	152,4	3 1/2	16,00	16 3/4	425,5	6 5/8	185,00
6 1/8	155,6	3 1/2	20,00	16 7/8	428,6	6 5/8	185,00
6 1/4	158,8	3 1/2	20,00	17	431,8	6 5/8	235,00
6 3/8	161,9	3 1/2	20,00	17 1/8	435,0	6 5/8	235,00
6 1/2	165,3	3 1/2	20,00	17 1/4	438,2	6 5/8	235,00
6 5/8	168,3	3 1/2	20,00	17 3/8	441,3	6 5/8	235,00
6 3/4	171,5	3 1/2	20,00	17 1/2	444,5	6 5/8 o 7 5/8	235,00
6 7/8	174,6	3 1/2	20,00	17 5/8	447,7	6 5/8 o 7 5/8	235,00
7	177,8	3 1/2	20,00	17 3/4	450,9	6 5/8 o 7 5/8	235,00
7 1/8	181,0	3 1/2	32,00	17 7/8	454,0	6 5/8 o 7 5/8	235,00
7 1/4	184,2	3 1/2	32,00	18	457,2	6 5/8 o 7 5/8	290,00
7 3/8	187,3	3 1/2	32,00	18 1/8	460,4	6 5/8 o 7 5/8	290,00
7 1/2	190,5	4 1/2	36,00	18 1/4	463,6	6 5/8 o 7 5/8	290,00
7 5/8	193,7	4 1/2	36,00	18 3/8	466,7	6 5/8 o 7 5/8	290,00
7 3/4	196,9	4 1/2	36,00	18 1/2	469,9	6 5/8 o 7 5/8	290,00
7 7/8	200,0	4 1/2	36,00	18 5/8	473,1	6 5/8 o 7 5/8	290,00
8	203,2	4 1/2	44,00	18 3/4	476,2	6 5/8 o 7 5/8	290,00
8 1/8	206,4	4 1/2	44,00	18 7/8	479,4	6 5/8 o 7 5/8	290,00
8 1/4	210,0	4 1/2	44,00	19	482,6	6 5/8 o 7 5/8	300,00
8 3/8	212,7	4 1/2	44,00	19 1/2	495,3	6 5/8 o 7 5/8	300,00
8 1/2	215,9	4 1/2	44,00	19 3/4	501,7	6 5/8 o 7 5/8	300,00
8 5/8	219,1	4 1/2	44,00	20	508,0	6 5/8 o 7 5/8	320,00
8 3/4	222,3	4 1/2	44,00	20 1/2	514,4	6 5/8 o 7 5/8	320,00
8 7/8	225,4	4 1/2	44,00	20 1/4	520,7	6 5/8 o 7 5/8	320,00
9	228,6	4 1/2	44,00	20 3/4	527,1	6 5/8 o 7 5/8	320,00
9 1/8	231,8	6 5/8	53,00	21	533,3	6 5/8 o 7 5/8	350,00
9 1/4	235,0	6 5/8	53,00	21 1/4	539,8	6 5/8 o 7 5/8	350,00
9 3/8	238,1	6 5/8	53,00	21 1/2	546,1	6 5/8 o 7 5/8	350,00
9 1/2	241,3	6 5/8	53,00	21 3/4	552,5	6 5/8 o 7 5/8	350,00
9 5/8	244,5	6 5/8	56,00	22	558.8	6 5/8 o 7 5/8	395,0
9 3/4	247,7	6 5/8	56,00	22 1/4	565,2	6 5/8 o 7 5/8	395,0
9 7/8	250,8	6 5/8	56,00	22 1/2	571,5	6 5/8 o 7 5/8	395,0
10	254,0	6 5/8	73,00	22 3/4	577,9	6 5/8 o 7 5/8	395,0
10 1/8	257,2	6 5/8	73,00	23	589,2	6 5/8 o 7 5/8	450,0
10 1/4	260,4	6 5/8	73,00	23 1/4	590,6	6 5/8 o 7 5/8	450,0
10 3/8	263,5	6 5/8	73,00	23 1/2	596,9	6 5/8 o 7 5/8	450,0
10 1/2	266,7	6 5/8	73,00	23 3/4	603,0	6 5/8 o 7 5/8	450,0
10 5/8	269,9	6 5/8	73,00	24	609,6	6 5/8 o 7 5/8	465,0
10 3/4	273,1	6 5/8	73,00	24 1/4	616,3	6 5/8 o 7 5/8	465,0
10 7/8	276,2	6 5/8	73,00	24 1/2	622,3	6 5/8 o 7 5/8	465,0
11	279,4	6 5/8	77,00	24 3/4	628,7	6 5/8 o 7 5/8	465,0
11 1/8	282,6	6 5/8	77,00	25	635,0	6 5/8 o 7 5/8	480,0
11 1/4	285,8	6 5/8	77,00	25 1/4	641,4	6 5/8 o 7 5/8	480,0
11 3/8	288,9	6 5/8	77,00	25 1/2	647,7	6 5/8 o 7 5/8	480,0
11 1/2	292,1	6 5/8	77,00	25 3/4	654,3	6 5/8 o 7 5/8	480,0
11 5/8	295,3	6 5/8	77,00	26	660,4	6 5/8 o 7 5/8	595,0
11 3/4	298,5	6 5/8	77,00	26 1/4	666,8	6 5/8 o 7 5/8	595,0
11 7/8	301,6	6 5/8	77,00	26 1/2	673,1	6 5/8 o 7 5/8	595,0
12	304,8	6 5/8	83,00	26 3/4	679,5	6 5/8 o 7 5/8	595,0
12 1/8	308,0	6 5/8	83,00	27	685,8	6 5/8 o 7 5/8	605,0
12 1/4	311,2	6 5/8	83,00	27 1/4	692,2	6 5/8 o 7 5/8	605,0
12 3/8	314,3	6 5/8	83,00	27 1/2	698,4	6 5/8 o 7 5/8	605,0
12 1/2	317,5	6 5/8	83,00	27 3/4	704,9	6 5/8 o 7 5/8	605,0
12 5/8	320,1	6 5/8	83,00	28	711,2	6 5/8 o 7 5/8	650,0
12 3/4	323,9	6 5/8	83,00	28 1/2	723,5	6 5/8 o 7 5/8	650,0

DRILLING PARAMETERS TRICONE BITS					
TRICONE TYPE	**FORMATION TYPE**	**WEIGHT PER INCH DIA. (KG)**		**RPM/MIN**	
		MIN	**MAX**	**MIN**	**MAX**
TEETH TRICONE	SOFT – MEDIUM SOFT	450	1300	60	110
	MEDIUM HARD	450	1800	50	100
	HARD – VERY HARD	900	2200	40	80
INSERTS TRICONE	MEDIUM SOFT	450	1800	45	80
	MEDIUM HARD – ABRASIVE	1200	2800	40	80
	HARD – ABRASIVE	1800	3100	30	60

CASING

External diamaeter (mm)	Internal diameter (mm)	Tickness (mm)	Weight (Kg)
D.101,6 L=1000	82	8,8	20
D.101,6 L=1500	82	8,8	30
D.101,6 L=2000	82	8,8	40
D.101,6 L=3000	82	8,8	60
D.114,3 L=1000	94	8,8	24
D.114,3 L=1500	94	8,8	35
D.114,3 L=2000	94	8,8	48
D.114,3 L=3000	94	8,8	69
D.127 L=1000	107	8,8	26
D.127 L=1500	107	8,8	39
D.127 L=2000	107	8,8	52
D.127 L=3000	107	8,8	77
D.133 L=1000	113	8,8	27
D.133 L=1500	113	8,8	41
D.133 L=2000	113	8,8	54
D.133 L=3000	113	8,8	81
D.139,7 L=1000	120	8,8	30
D.139,7 L=1500	120	8,8	44
D.139,7 L=2000	120	8,8	60
D.139,7 L=3000	120	8,8	86
D.152,4 L=1000	133	8,8	31,5
D.152,4 L=1500	133	8,8	47
D.152,4 L=2000	133	8,8	63
D.152,4 L=3000	133	8,8	94
D.168,3 L=1000	147	8,8	36

D.219,1 L=1000	197	8,8	47
D.168,3 L=1500	147	8,8	53
D.168,3 L=2000	147	8,8	72
D.168,3 L=3000	147	8,8	105
D.177,8 L=1000	158	8,8	38
D.177,8 L=1500	158	8,8	56
D.177,8 L=2000	158	8,8	76
D.177,8 L=3000	158	8,8	110
D.193,7 L=1000	172	8,8	41
D.193,7 L=1500	172	8,8	61
D.193,7 L=2000	172	8,8	82
D.193,7 L=3000	172	8,8	121
D.203 L=1000	178	8,8	44
D.203 L=1500	178	8,8	65
D.203 L=2000	178	8,8	88
D.203 L=3000	178	8,8	128
D.219,1 L=1500	197	8,8	70
D.219,1 L=2000	197	8,8	94
D.219,1 L=3000	197	8,8	138
D.244,5 L=1000	222	10	58
D.244,5 L=1500	222	10	87
D.244,5 L=2000	222	10	116
D.244,5 L=3000	222	10	174
D.273 L=1000	248	10	65
D.273 L=1500	248	10	97
D.273 L=2000	248	10	130
D.273 L=3000	248	10	195
D.298,5 L=1000	275	10	73
D.298,5 L=1500	275	10	109
D.298,5 L=2000	275	10	146
D.298,5 L=3000	275	10	216
D.323,9 L=1000	298	12,5	100
D.323,9 L=1500	298	12,5	150
D.323,9 L=2000	298	12,5	200
D.323,9 L=3000	298	12,5	300
D.355,6 L=1000	329	12,5	108
D.355,6 L=1500	329	12,5	162
D.355,6 L=2000	329	12,5	216
D.355,6 L=3000	329	12,5	324
D.406,4 L=1000	380	12,5	121
D.406,4 L=1500	380	12,5	182
D.406,4 L=2000	380	12,5	242
D.406,4 L=3000	380	12,5	363

EXTERNAL - INTERNAL DRAGGING

External dragging	Weight (Kg)	Internal dragging thread	Weight (Kg)
Diam. 101,6	6	54 BWJ	5
Diam. 114,3	8	76 2 " 3/8 API REG.	10
Diam. 127	9	76 2 " 3/8 API REG.	10
Diam. 133	9	76 2 " 3/8 API REG.	10
Diam. 139,7	10	76 2 " 3/8 API REG.	10
		90 2 " 3/8 API REG.	14
Diam. 152,4	12	76 2 " 3/8 API REG.	10
		90 2 " 3/8 API REG.	14
Diam. 168,3	15	90 2 " 3/8 API REG.	14
		114 3 " 1/2 API REG.	22
Diam. 177,8	16	90 2 " 3/8 API REG.	14
		114 3 " 1/2 API REG.	22
Diam. 193,7	18	90 2 " 3/8 API REG.	14
		114 3 " 1/2 API REG.	22
Diam. 203	19	90 2 " 3/8 API REG.	14
		114 3 " 1/2 API REG.	22
Diam. 219,1	21	114 3 " 1/2 API REG.	22
		140 4 " 1/2 API REG.	34
Diam. 244,5	23	114 3 " 1/2 API REG.	22
		140 4 " 1/2 API REG.	34
Diam. 273	26	140 4 " 1/2 API REG.	34
Diam. 298,5	28	140 4 " 1/2 API REG.	34
Diam. 323,9	34	140 4 " 1/2 API REG.	34
		168 4 " 1/2 API REG.	60
Diam. 355,6	40	168 4 " 1/2 API REG.	60
		219 6 " 5/8 API REG.	80
Diam. 406,4	45	168 4 " 1/2 API REG.	60
		219 6 " 5/8 API REG.	80

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