



'Lotus'

DTH Hammers, Button Bits & Tricone Rock Bits

Lotus DTH Hammers

The 'Lotus' **DTH Hammer** have been developed after extensive research, which ensures best quality giving hammers longer life with less need of maintenance, less wear and tear, thus giving the end user more drilling meterage and optimum performance and more income being economical. The 'Lotus' Hammers are heavy duty and are available in sizes range of 4" to 10" diameters. 'Lotus' brand Fast Forward series state of the art hammers DTH Hammers give a wide range of other benefits to the users, as they are built with valve less technology, thus the performance is extremely good & reliable. 'Lotus' hammers incorporate the facility of lubricated bit shanks to ensure spline wear to least. The facility of reversible piston casing and simple & rugged construction ensures extended service life and easy maintenance with less wear & tear & low operational costs.

'Lotus' hammers, combined with the best quality of compatible Button Bits, will give users an excellent drilling capacity & good productivity by minimizing their total drilling costs. Borehole drilling in water well & Blast holes in mines, quarries and civil construction are applications that will benefit the users less drilling costs thus enhancing their profits.

We have entire range Best international quality, heavy duty & reliable latest generation versatile DTH Hammers having fastest drilling rates, built with ultra modern technology. Available in range of 3.5" to 12" Diameters in Valve less and Valved versions, for blast hole and water well drilling application. All international leading popular hammer shanks are available with choice of Sandvik Mission, Atlas Copco and Ingersoll Rand types of shank like DHD 3.50, QL 40, Mach 44, Cop 44, DHD 340, SD 4, Panther, DHD 4, DHD 350, Mission 6, QL 60, SD 6, DHD 360, SD 8, DHD 380, SD 10, etc.

All our Hammers are manufactured with best quality raw material, Ultra modern latest international technology in machining & heat treatment facilities in-house under facilities, with stringent & vigilant quality control checks at every stage of manufacturing process. Thus it is

ensured that every hammer & button bit that goes to warehouse/stock is perfect in quality & free of any defects. All our hammers incorporate the facility of lubricated bit shanks to ensure spline wear to least. The facility of reversible piston casing and simple & rugged construction ensures extended service life & easy maintenance with less wear & tear and low operational costs.

We ensure all our users an excellent drilling capacity t & good productivity by minimizing their total drilling costs. Borehole drilling in water well & blast holes in mines, quarries and civil constructions are applications that will benefit the users & hence enhancing their profits.



Lotus DTH Hammers

(Valve-less Hammer) FF (Fast Forward) Series

DTH Hammers (Valve-less Hammers) FF (Fast Forward) Series Hammers			
HAMMER SIZE RANGE		6"	8"
HAMMER MODEL AVAILABLE		Lotus FF6	Lotus FF8
HAMMERS AVAILABLE WITH SHANK TYPE		Sandvik Drilltec Mission 6	Lotus FF8
HOLE DIA	MM	152-165	203-216
	INCH	6-6.5	8-8.5
HAMMER DIA	MM	148	170
	INCH	5.82	6.7
CYLINDER BORE	MM	118	136
	INCH	4.64	5.35
PISTON STROKE	MM	90	85
	INCH	3.54	3.35
PISTON WEIGHT	Kgs	18	23
	Lb	39.68	50.60
HAMMER LENGTH WITHOUT BIT	MM	1132	1135
	INCH	46.14	44.68
HAMMER LENGTH BIT EXTENDED	MM	1265	1220
	INCH	49.80	48
HAMMER LENGTH BIT RETRACTED	MM	1234	1250
	INCH	48.58	49.20
HAMMER WEIGHT WITHOUT BIT	Kgs	105	135
	Lb	231	297
WEIGHT OF BIT	Kgs	23.5	32.5
	Lb	51.80	71.5
SIZE OF BACK HEAD WRENCH	MM	90	115
	INCH	3.54	4.5
TOP SUB CONNECTION		3 ½" API REG PIN	4 ½" API REG PIN
AIR FLOW CONSUMPTION		cfm	cfm
100 PSI (6.8 Bars)		290	-
150 PSI (10.3 Bars)		400	-
200 PSI (13.8 Bars)		550	650
250 PSI (17.2 Bars)		730	860
300 PSI (20.7 Bars)		900	1080
350 PSI (24.1 Bars)		1050	1190



Lotus DTH Hammers

MAX L4, MAX L6 (IR QL Series)



DTH Hammers – MAX L4, MAX L6 (IR QL Series)			
HAMMER SIZE RANGE		4"	6"
HAMMER MODEL AVAILABLE		Lotus Max_4	Lotus Max_6
HAMMERS AVAILABLE WITH SHANK TYPE		IR QL 40	IR QL 60
HOLE DIA	MM	105 - 127	152 – 215
	INCH	4 - 6.5	6 - 8.5
HAMMER DIA	MM	95	136.6
	INCH	3.86	5.38
CYLINDER BORE	MM	76.2	112.5
	INCH	4.64	4.43
PISTON STROKE	MM	101.6	101.6
	INCH	4	4
PISTON WEIGHT	Kgs	8	20.5
	Lb	17	45
HAMMER LENGTH WITHOUT BIT	MM	940	1020
	INCH	37.3	40.4
HAMMER LENGTH BIT EXTENDED	MM	1060	1346
	INCH	41.80	55.3
HAMMER LENGTH BIT RETRACTED	MM	1020	1254
	INCH	40.4	49.4
HAMMER WEIGHT WITHOUT BIT	Kgs	37	102.7
	Lb	81	226
WEIGHT OF BIT	Kgs	6	23
	Lb	13.20	50.6
SIZE OF BACK HEAD WRENCH	MM	44 x 63 AF	50 x 100
	INCH	1 3/4 x 2 1/2	2 x 4
TOP SUB CONNECTION		2 3/8" API REG PIN	3 1/2" API REG PIN
AIR FLOW CONSUMPTION		cfm	cfm
100 PSI (6.8 Bars)		155	365
150 PSI (10.3 Bars)		245	550
200 PSI (13.8 Bars)		340	800
250 PSI (17.2 Bars)		435	1030
300 PSI (20.7 Bars)		550	1260
350 PSI (24.1 Bars)		660	1500

Lotus Make T.C. Button Bits OF DTH Hammers			
S. No	Button Bit Size Range	Hammers Suitable for	Bit Design
1	4" – 7"	Panther / QL-40 / Sd4	Flat Face, Drop Center, Concave
2	4" – 6 1/2 "	DHD 14/DH4/MAC 4 DHD 340/QL 40	Flat Face, Drop Center, Concave
3	6" – 11"	DHD 16/Bison DHD 360/ DHD 160 / COP 62/ QL 60/ MISSION 6	Flat Face, Drop Center, Concave
4	6" – 10"	SD 6/ QL 16 / MACH 66	Flat Face, Drop Center, Concave
5	8" – 20"	DHD17/SD8/LR8/ DHD380/ QL 80	Flat Face, Drop Center, Concave

Lotus DTH Shank Hammers

DTH Hammers									
Hammers With Popular International Shank Designs									
HAMMER SIZE RANGE	3.5"	4"	4"	5"	6"	6"	8"	8"	10"
HAMMER MODEL	Lotus FDD 3.5	Lotus FDD 4	Lotus FDD 34	Lotus FDD 35	Lotus FD 6	Lotus FDD 36	Lotus FD 8	Lotus FDD 38	Lotus FD 10
AVAILABLE HAMMERS AVAILABLE WITH SHANK TYPE	DHD 3.5	SD 4	DHD 340	DHD 530	SD 6	DHD 360	SD 8	DHD 380	SD 10
HOLE DIA	MM	86 – 127	115 – 140	115 – 127	127 – 165	152 – 216	152 – 190	203 – 266	203 - 254
	INCH	3.5 – 5	4.5 – 5.5	4.5 – 5	5 - 6.5	6 – 8.5	6 - 7.5	8 – 10.5	8 – 10
HAMMER DIA	MM	78	92	92	117	138	138	173	180
	INCH	3.1	3.63	3.62	4.6	5.45	5.4	6.81	7.1
CYLINDER BORE	MM	58	66	68	91	112.5	108	136	148
	INCH	2.28	2.59	2.67	3.58	4.43	4.25	5.35	5.83
PISTON STROKE	MM	110	82	82	90	102	95	85	90
	INCH	4.33	3.23	3.23	3.54	4.2	3.74	3.34	3.54
PISTON WEIGHT	Kgs	3.0	10	8	16	24	22	31	29
	Lb	6.6	22	17	35.2	52	50.50	68	63.8
HAMMER LENGTH WITHOUT BIT	MM	885	992	1040	1070	1257	1250	1194	1315
	INCH	34.84	39.2	40.94	42.13	49.5	49.21	47	51.78
LENGTH BIT EXTENDED	MM	945	1118	1118	1185	1408	1395	1451	1415
	INCH	37.20	44	44	46.65	55.50	54.92	57.1	55.7
HAMMER LENGTH BIT RETRACTED	MM	920	1080	1080	1150	1370	1340	1410	1375
	INCH	36.22	42.5	43.90	45.28	53.15	52.75	55.5	54.14
HAMMER WEIGHT WITHOUT BIT	Kgs	28	36	40	65	101	108	156	178
	Lb	62	81	88	143	223	238	345	391.6
WEIGHT OF BIT	Kgs	4.5	12	10	16	28	26	42	41
	Lb	9.90	26.4	22.00	35.2	62	57.2	92	90.2
SIZE OF BACK HEAD WRENCH	MM	65	65	65	85	102	102	150	150
	INCH	2.55	2.55	2.55	3.34	4.01	4.01	5.9	5.9
TOP SUB CONNECTION	2 3/8" API	2 3/8" API	2 3/8" API	2 3/8" API	3 1/2" API	3 1/2" API	4 1/2" API	4 1/2" API	6 5/8" API
	REG PI OR	REG PIN	REG PIN	REG PIN	REG PI	REG PI	REG PIN	REG IN	REG PIN
AIR FLOW CONSUMPTION	cfm	cfm	cfm	cfm	cfm	cfm	cfm	cfm	cfm
	100 PSI (6.8 Bars)	170	185	200	200				
150 PSI (10.3 Bars)	245	210	270	285	410	410	440	610	660
	200 PSI (13.8 Bars)	350	320	340	400	520	550	680	830
250 PSI (17.2 Bars)		410	485	520	725	712	810	1070	1230
	300 PSI (20.7 Bars)			645	820	865	1080	1320	1510
350 PSI (24.1 Bars)					1050	1050	1160	1450	1500

Lotus Make T.C. Button Bits OF DTH Hammers			
S. No	Button Bit Size Range	Hammers Suitable for	Bit Design
1	4" – 7"	Panther / QL-40 / Sd4	Flat Face, Drop Center, Concave
		DHD 14/DH4/MAC 4	Flat Face, Drop Center, Concave
2	4" – 6 1/2 "	DHD 340/QL 40	Flat Face, Drop Center, Concave
		DHD 16/Bison DHD 360/ DHD 160 / COP 62/ QL 60/ MISSION 6	Flat Face, Drop Center, Concave
3	6" – 11"		Flat Face, Drop Center, Concave
		SD 6/ QL 16 / MACH 66	Flat Face, Drop Center, Concave
4	6" – 10"	DHD17/SD8/LR8/	Flat Face, Drop Center, Concave
		DHD380/ QL 80	Flat Face, Drop Center, Concave
5	8" – 20"		

Lotus Button Bits

'Lotus' – DTH (down the hole) **Button Bit** are available in different sizes ranging from 3" to 14" to suit different application. To give peak penetration in water well drilling as well as blasting holes for mining / construction industry, 'Lotus' Button Bits are made from the best of the alloy steel, machine to high precision and heat treated with most advanced heat treatment technology. The carbide buttons are procured from leading reputed indigenous manufactures having the latest international in making tungsten carbide buttons. Quality and durability are essential requisites for all rock drilling tools and equipment, 'Lotus' button bits are manufactured under strict quality control and by most skilled farce for proven and guaranteed satisfaction to the customer. 'Lotus' Button Bit designs have been perfected from the most extensive rock drilling experience.

'Lotus' Button Bits Ensure: Consistence in Quality / Larger Product Life / Higher Wear Resistance. To obtain maximum life from button bits is necessary to have customer support in regrinding button bits at regular intervals when the button develops a flat surface of 5 to 6 mm on the button.

Button Bits for All Types of Hammers: we can manufacture & supply bits of all types & sizes for any make of hammer, with exact specifications and material property as per client's sample in any bulk or small quantity at very good prices. we have best infrastructure & facilities available with us.



Lotus Threaded Button Bits

Best international quality **Threaded Button Bit** for Top Hammer (Drifter) Drilling with different thread and Dia sizes are available, as given below.

Other DTH Hammers - As Per API Standards Brands & Makes Available TIH Us: Atlas Copco, Sandvik, Ingersoll Rand.

Specifications:

Sr. No.	Threads	Bit Size
1	R 32	45 mm, 48 mm, 64 mm, 76 mm
2	R 38	64 mm, 76 mm, 89 mm
3	T 38	64 mm, 76 mm, 89 mm, 102 mm, 115 mm, 127 mm
4	T 45	76 mm, 89 mm, 102 mm, 115 mm, 127 mm
5	T 51	89 mm, 102 mm, 115 mm, 127 mm



Tricone Rock Bit

Pioneers in the industry, we offer Rock Roller Tricone Bits such as TCI Tooth Rock Roller Tricone Bit and Steel Tooth Rock Roller Tricone Bit from India.

Best international quality Rock Roller Bits are available in both TCI (Tungsten Carbide Inserts) & Milled Steel Tooth types in all sizes with different IADC Code manufactured as per API Standards, suitable for drilling Soft, Medium Hard & Hard formation.

We are instrumental in offering a broad array of **Steel Tooth Rock Roller Tricone Bit** that is manufacture by our experts, using quality approved raw material and advanced technology. The offered range is checked on various parameters by our quality inspectors. We offer this range in various sizes as per the needs of the clients. In addition to this, clients can avail this product at market price.

Steel Tooth & TCI Tricone Rock Bit – Opened & Sealed Bearing TYPE

Manufactured as per API Standards and specifications with superior quality steel, advanced technologies, designed for use with compressed air or fluid circulation systems. Regular and Jet circulation available. Cutting structures allow optimum penetration rates and long runs even in the most difficult and abrasive formations. Weight on the bits is distributed through a five anti-friction bearing matched and ground with precision to tolerance. Critical areas on the external portion of the bit are protected with the Tungsten Carbide Alloy hard facing. All sizes of Steel Tooth Tricone Bits are available for: Soft, Medium-Soft, Medium-Hard & Hard formations for Blast Hole & Water-well Drilling: Milled Steel Tooth Type & Tungsten Carbide Insert type.

TCI Stands for Tungsten Carbide Insert. These Tricones are designed for soft to very hard formations depending on the style and quality of the carbides on the drill bit, sealed bearing TCI Tricone bit or without gauge protection.

These are the best performing and longest lasting style of Tricone on the market. Sealed bearing will outperform open bearing. Gauge protection greatly increases the life of the drill bit. Open bearing Tricones can be gauge protected or not. These Tricone bits have exceptional value, good performance and low cost. Gauge protection greatly increases the life of the drill bit.

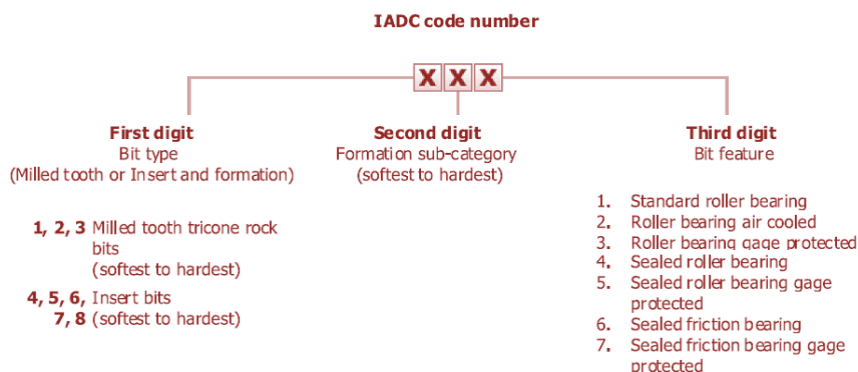


Steel Milled Tooth Tricone Rock Bit



Mill tooth Tricone drill bits have very high drilling rates in soft formations. Tricone bits are hard faced the milled teeth so that they sharpen themselves while drilling. Milled tooth Tricone bits are designed for very soft to medium hardness formations. Sealed bearing milled tooth Tricone bit with or without gauge protection. These are the best performing and longest lasting style of Tricone on the market. Gauge protection increases the life of the drill bits.

							BAILING VELOCITY TABLE											
Delivered Air Volume CFM required for a Bailing Velocity of 5,000 FPM																		
PIPE SIZE							BIT SIZE											
In.	mm	4 3/4	5	5 1/8	5 5/8	5 7/8	6	6 3/4	7 3/8	7 7/8	9	9 7/8	10 5/8	12 3/4	13 3/4	15	17 1/2	
		121	127	130	143	149	152	159	171	187	200	229	251	261	311	349	381	445
2 3/8	61	461	528	562	709													
		13.06	14.95	15.92	20.08													
2 7/8	73	390	456	491	638	716	756											
		11.04	12.91	13.91	18.07	20.28	21.41											
3 1/2	89	281	348	382	529	607	648	732	909	1149	1358	1875						
		7.96	9.86	10.82	14.98	17.19	18.35	20.73	25.74	32.54	32.54	53.10						
4	102	178	245	280	426	505	545	629	807	1047	1255	1773						
		5.04	6.94	7.93	12.06	14.30	15.43	17.81	22.85	29.65	35.54	50.21						
4 1/2	114						513	691	931	1139	1657							
							14.53	19.57	26.37	32.36	46.93							
5	127						383	561	802	1010	1526	1978	2397	3411				
							10.85	15.89	22.71	28.60	43.27	56.02	67.88	96.60				
5 1/2	140							418	658	867	1384	1835	2254	3268				
								11.84	18.63	24.55	39.19	51.97	63.83	92.55				
6 1/2	159								418	626	1144	1594	2013	3027				
									11.84	17.73	32.40	45.14	57.01	85.72				
6 5/8	168								495	1012	1463	1882	2896					
									14.02	28.66	41.43	53.30	82.01					
7	178									873	1323	1742	2756					
										24.72	37.47	49.33	78.05					
7 1/2	197									571	1022	1441	2455	3517				
										16.17	28.94	40.81	69.53	99.59				
8 5/8	219										631	1050	2064	3358				
											17.87	29.74	58.45	95.09				
9	229										870	1884	2946					
											24.64	53.35	83.42					
10	250													1366	2428	3409		
														38.69	68.75	96.54		
10 3/4	273													941	2004	2985		
														26.65	56.75	84.54		



Type of Bit		
1 2 3 for steel tooth bit (from soft to hard)		
4 5 6 7 8 for tungsten carbide bit (from soft to hard)		
Formation Hardness		
1 2 3 4 from soft to hard		
Bit Features		
1. Standard open bearing		
2. Standard open bearing / Air cooled		
3. Standard open bearing / Gage protected		
4. Sealed roller bearing		
5. Sealed roller bearing / Gage protected		
6. Sealed journal bearing		
7. Sealed journal bearing / Gage protected		
1	2	3

Steel Milled Tooth Tricone Rock Bit



Center Jet is mounted at the centre of the bit. They are effectively used to prevent bit balling in sticky formations. Available both in convergent and diffuser type.



They are used to increase rate of penetration in soft to medium soft formations. These nozzles keep the jet flow closer to the hole bottom. When the bit has mini-extended nozzles, ensure that the bit does not rest against the nozzles during make-up or breakout of bit.

3. GAUGE PROTECTION INSERTS:



These are profiled inserts pressed in the outer edge of the gauge face. These protect the gauge of the bit in abrasive formations. Gauge protection inserts are standard on TCI bits.



Tungsten carbide inserts are pressed into the shirt tail area to provide extra protection of ball plug and shirt tail.

5. AIR CIRCULATION:



This is available in milled tooth & TCI Bits to drill with air as a circulation media. Some part of air flow is utilized to clean & cool the bearings.



6. BODY & SHIRT TAIL PROTECTION:

Additional protection to the leg body & shirt tail whilst drilling in abrasive formations & in the directional drilling applications.

Classification - IADC code



Standard roller bearing
(IADC xx1 or xx3)



Roller bearing air cooled
(IADC xx2 or xx3)



Sealed roller bearing
(IADC xx4 or XX5)



Sealed friction bearing
(IADC xx6 or xx7)

To enhance gage holding and seal protection. Roller cone bits provide value with a variety of shirrtail protection packages for high-angle drilling, abrasive formation and steerable applications. These shirrtail protection packages can be used to tailor bits to meet your drilling needs.

Motor Hard facing (M feature) for demanding motor applications, a generous application of tungsten carbide hard facing is applied to the shirrtail lower edge and leading edge of the bit to provide enhanced seal protection.

Leading Edge Shirrtail Inserts (S feature) Tungsten Carbide Insert are placed along the leading edge of the shirrtail providing additional wear resistance in motor applications commanding high RPM or where additional shirrtail protection is needed.

Stabilization Inserts ® feature. Stabilization inserts enhance standard shirrtail patterns by providing bit stabilization and additional protection to the pressure compensator in high-angle applications or in deviation-prone formations.

Diamond Enhanced Shirrtail Inserts (Z feature) In premium shirrtail protection package PCD-Capped Inserts replaced tungsten carbide inserts (TCI) in strategic locations to provide maximum shirrtail protection in abrasive formations or directional application shirrtail protection. Motor Hardfacing – M Feature, Leading Edge & Hardfacing – S Feature

Stabilization and Hardfacing - ® Feature, Diamond Enhanced and Hardfacing – Z Feature.

We provide ourselves on the quality of our process and product. **Our Quality Motto**
“Customer Delight”

As a Global supplier to drilling industries, we are proud to offer next generation Tricone rock drill bits manufactured are per API Standards with latest CNC Machines. These Tricone Bits are designed for taking higher loads and to have excellent penetration rate for any formation. Tricone Bits are available in form of Milled Tooth and Tungsten Carbide Insert Bits.



Availability of Lotus DTH Hammer & Button Bit

Lotus DTH Hammers & Button Bits as per API Standards				
Sr. No.	Description	Hammer Size	Available Shank Type	PIN Connection Thread Size
1	Lotus – FFTD 350 : 3.5" DTH Hammer	3.5"	IR: TD 35	2 3/8" API REG or 2 7/8" API
	Button Bits: Flat Face (Optional-Concave Face) Dia – 3 1/2" (89 mm)			
	Dia – 4" (102 mm)			
2	Lotus – MAX_L 400 : 4" DTH Hammer	4"	IR : QL 40	2 3/8" API REG PIN
	Button Bits: Flat Face (Optional-Concave Face) Dia – 4 1/2" (115 mm)			
3	Lotus – FF 4 : 4" DTH Hammer	4"	Lotus FF 4 & Mach 44	3 1/2" API REG PIN
	Button Bits: Flat Face (Optional-Concave Face) Dia – 4" (102 mm)			
	Dia – 4 1/2" (115 mm)			
	Dia – 5" (127 mm)			
	Dia – 6" (152 mm)			
	Dia – 6 1/2" (165 mm)			
4	Lotus – FDD 34 : 4" DTH Hammer	4"	IR : DHD 340	3 1/2" API REG PIN
	Button Bits: Flat Face (Optional-Concave Face) Dia – 4" (102 mm)			
	Dia – 4 1/2" (115 mm)			
	Dia – 5" (127 mm)			
	Dia – 6" (152 mm)			
	Dia – 6 1/2" (165 mm)			
5	Lotus – FDD 34 / FD 4 : 4" DTH Hammer	4"	IR : DHD 340	3 1/2" API REG PIN
	Button Bits: Flat Face (Optional-Concave Face) Dia – 4" (102 mm)			
	Dia – 4 1/2" (115 mm)			
	Dia – 5" (127 mm)			
	Dia – 6" (152 mm)			
	Dia – 6 1/2" (165 mm)			
6	Lotus – MAX_L 450 : 5" DTH Hammer	5"	IR : QL 45	3 1/2" API REG PIN
	Button Bits: Flat Face (Optional-Concave Face) Dia – 5" (127 mm)			
	Dia – 6" (152 mm)			
	Dia – 6 1/2" (165 mm)			
7	Lotus – FDD_35 : 5" DTH Hammer	5"	IR : DHD 350	3 1/2" API REG PIN
	Button Bits: Flat Face (Optional-Concave Face) Dia – 5" (127 mm)			
	Dia – 6" (152 mm)			
	Dia – 6 1/2" (165 mm)			
8	Lotus – FF 6 : 6" DTH Hammer	6"	Sandvik Mission 6	3 1/2" API REG PIN
	Button Bits: Flat Face (Optional-Concave Face) Dia – 6" (152 mm)			
	Dia – 6 1/2" (165 mm)			
	Dia – 7" (152 mm)*			
	Dia – 7 1/2" (165 mm)			
	Dia – 8" (203 mm)*			
	Dia – 8 1/2" (216 mm)			
9	Lotus – MAX_L 600 : 6" DTH Hammer	6"	IR : QL 60	3 1/2" API REG PIN
	Button Bits: Flat Face (Optional-Concave Face) Dia – 6" (152 mm)			
	Dia – 6 1/2" (165 mm)			
	Dia – 7" (152 mm)			
	Dia – 7 1/2" (165 mm)			
	Dia – 8" (203 mm)			
	Dia – 8 1/2" (216 mm)			
10	Lotus – MAX_L 650 : 6" Valve-less DTH Hammer	6"	IR : QL 65	3 1/2" API REG PIN
	Button Bits: Flat Face (Optional-Concave Face) Dia – 6" (152 mm)			
	Dia – 6 1/2" (165 mm)			
	Dia – 7" (152 mm)			

	Dia – 7 ½" (165 mm)			
	Dia – 8" (203 mm)			
11	Lotus – FD 6 : 6" DTH Hammer	6"	Sandvik : SD 6	3 ½" API REG PIN
	Button Bits: Flat Face (Optional-Concave Face) Dia – 6" (152 mm)			
	Dia – 6 ½" (165 mm)			
	Dia – 8 ½" (216 mm)			
	Dia – 10" (254 mm) O B			
12	Lotus – FDD 36 : 6" DTH Hammer	6"	IR : DHD 360	3 ½" API REG PIN
	Button Bits: Flat Face (Optional-Concave Face) Dia – 6" (152 mm)*			
	Dia – 6 ½" (165 mm)			
	Dia – 8 ½" (216 mm)			
13	Lotus – FF 8 : 8" DTH Hammer	8"	Lotus FF 8	4 ½" API REG PIN
	Button Bits: Flat Face (Optional-Concave Face) Dia – 8" (203 mm)			
	Dia – 8 ½" (216 mm)			
	Dia – 9" (229 mm)			
	Dia – 10" (254 mm)			
	Dia – 10 ½" (280 mm)			
14	Lotus – FD 8 : 8" DTH Hammer	8"	Sandvik: SD 8	4 ½" API REG PIN
	Button Bits: Flat Face (Optional-Concave Face) Dia – 8" (203 mm)*			
	Dia – 8 ½" (216 mm)			
	Dia – 9" (229 mm)*			
	Dia – 10" (254 mm)			
	Dia – 10 ½" (280 mm)			
15	Lotus – FDD 38 : 8" DTH Hammer	8"	IR : DHD 380	4 ½" API REG PIN
	Button Bits: Flat Face (Optional-Concave Face) Dia – 8" (203 mm)*			
	Dia – 8 ½" (216 mm)			
	Dia – 9" (229 mm)*			
	Dia – 10" (254 mm)			
	Dia – 10 ½" (280 mm)			
16	Lotus – FF 10 : 10" DTH Hammer	10"	Lotus FF 10	6 5/8" API REG PIN
	Button Bits: Flat Face (Optional-Concave Face) Dia – 10" (254 mm)*			
	Dia – 10 ½" (280 mm)*			
	Dia – 12" (305 mm)*			
	Dia – 12 ½" (330 mm)*			
17	Lotus – FF 10 : 10" DTH Hammer	10"	Sandvik : SD 10	6 5/8" API REG PIN
	Button Bits: Flat Face (Optional-Concave Face) Dia – 10" (254 mm)*			
	Dia – 10 ½" (280 mm)*			
	Dia – 12" (305 mm)*			
	Dia – 12 ½" (330 mm)*			

Note: For all Lotus DTH Hammers as well all leading and popular international brand DTH Hammers, We can supply Button Bits for any other sizes against specific requirement.

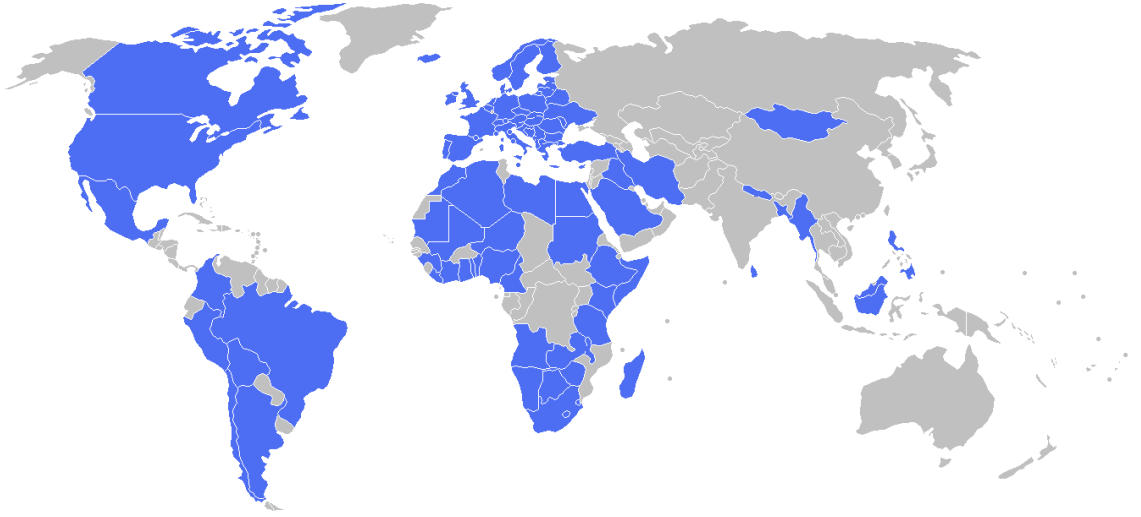


Availability of Tricone Rock Bit

SR. NO.	BIT SIZE	FORMATION	API PIN CONNECTION	AVAILABILITY OF TRICONE ROCK BITS			
				TCI BITS		STEEL TOOTH BITS	
				OPEN BEARING	SEALED BEARING	OPEN BEARING	SEALED BEARING
1	2 7/8" with N Rod	SOFT/MED/HARD	N Rod (4 TPI) or AW	-	-	√	-
2	3 7/8"	SOFT/MED/HARD	2 3/8" Regular	-	-	√	-
3	4 1/4"	SOFT/MED/HARD	2 3/8" Regular	-	-	√	-
4	4 1/2"	SOFT/MED/HARD	2 3/8" Regular	-	-	√	-
5	4 3/4"	SOFT/MED/HARD	2 7/8" Regular	√	-	√	-
6	5 5/8"	SOFT/MED/HARD	3 1/2" Regular	√	-	√	-
7	5 7/8"	SOFT/MED/HARD	3 1/2" Regular	-	-	√	-
8	6"	SOFT/MED/HARD	3 1/2" Regular	-	-	-	-
9	6 1/4"	SOFT/MED/HARD	3 1/2" Regular	√	√	√	√
10	6 3/4"	SOFT/MED/HARD	3 1/2" Regular	√	√	√	√
11	7 5/8"	SOFT/MED/HARD	4 1/2" Regular	-	-	√	-
12	7 7/8"	SOFT/MED/HARD	4 1/2" Regular	√	-	√	-
13	8 1/2"	SOFT/MED/HARD	4 1/2" Regular	√	√	√	√
14	8 3/4"	SOFT/MED/HARD	4 1/2" Regular	√	√	√	√
15	9 5/8"	SOFT/MED/HARD	6 5/8" Regular	-	-	√	-
16	9 7/8"	SOFT/MED/HARD	6 5/8" Regular	√	√	√	√
17	10 5/8"	SOFT/MED/HARD	6 5/8" Regular	√	√	√	√
18	12 1/4"	SOFT/MED/HARD	6 5/8" Regular	√	√	√	√
19	13 3/4"	SOFT/MED/HARD	6 5/8" Regular	√	√	√	√
20	14 3/4"	SOFT/MED/HARD	6 5/8" or 7 5/8" Reg	-	√	√	√
21	15"	SOFT/MED/HARD	6 5/8" or 7 5/8" Reg	-	√	√	√
22	17 1/2"	SOFT/MED/HARD	6 5/8" or 7 5/8" Reg	√	√	√	√







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