

# Latest Generation Ultra modern, Dynamic & Versatile DTH Hammers



*Lotus*



Fastest Drilling Penetration  
Rate with Low Maintenance Cost

" Lotus\_FF " FAST FORWARD SERIES  
DTH HAMMERS & BUTTON BITS



## 'LOTUS' DTH HAMMERS

The 'Lotus' Fast Forward Series DTH Hammers have been developed after extensive research with choice of shanks of all popular and leading DTH Hammer models that are preferred all over the world, 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 art DTH Hammers and other popular brand DTH Hammers manufactured by us, 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 splin wear to least. The facility of reversible piston casing and simple & rugged construction ensures extended service life and easy maintenance with less wear & tear and low operational costs.

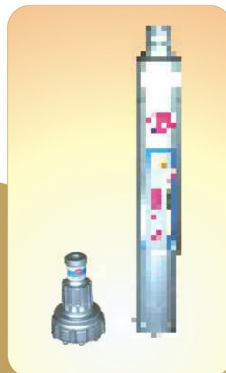
'Lotus' hammers, combined with the best quality of compatible Button Bits, will give users an excellent drilling capacity & good productivity by minimizing their total drilling costs. Borehole drilling in water well & Blast holes in mines, quarries and civil construction are applications that will benefit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

## 'LOTUS' BUTTON BITS

'LOTUS' DTH (down the hole) Button bit are available in different sizes ranging from 3" to 14" with all international shank designs 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 Carburizing 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 force for proven and guaranteed satisfaction to the customer. 'LOTUS' Button Bit designs have been perfected from the most extensive rock drilling experience.

## QUALITY POLICY

'LOTUS' HAMMERS & 'LOTUS' BUTTON BITS are produced by choosing right raw material, high technology in machining and heat treatment facilities made available in-house under one roof, 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.





## DTH HAMMERS (Valve-less Hammers) FF (FAST FORWARD) SERIES HAMMERS

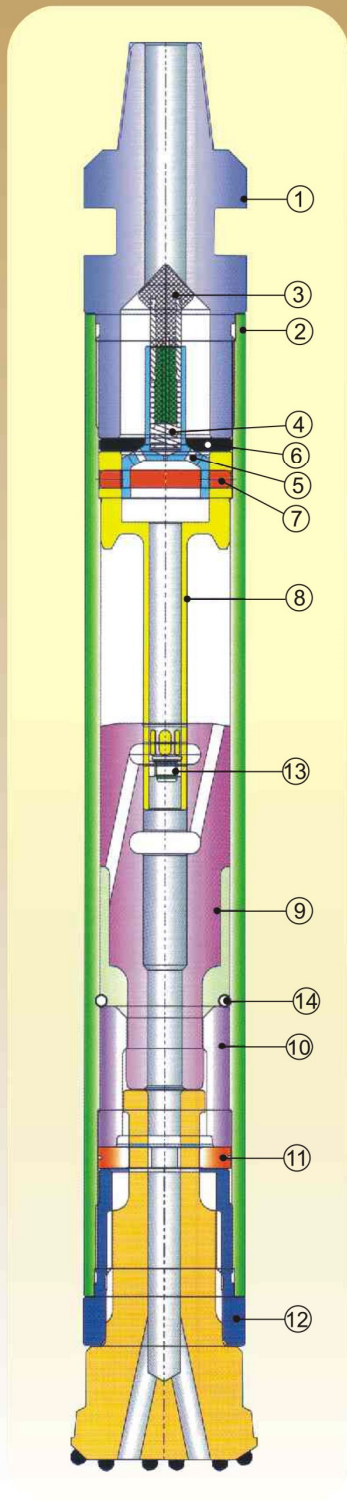
HAMMER SIZE RANGE		6"	8"
HAMMER MODEL AVAILABLE		Lotus FF6	Lotus FF 8
HAMMERS AVAILABLE WITH SHANK TYPE		Sandvik Drilltec Mission 6	Lotus FF 8
HOLE DIA	MM	152 - 165	203 - 216
	INCH	6 - 6.5	8 - 8.5
HAMMER DIA	MM	148	170
	INCH	5.82	6.7
CYLINDER BORE	MM	118	136
	INCH	4.64	5.35
PISTON STROKE	MM	90	85
	INCH	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	Kg	105	135
	(lb)	231	297
WEIGHT OF BIT	Kg	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 1/2" API REG PIN	4 1/2" API REG PIN
AIR FLOW CONSUMPTION		cfm	cfm
100 PSI (6.8 Bars)		290	—
150 PSI (10.3 Bars)		400	—
200PSI (13.8 Bars)		550	650
250PSI (17.2 Bars)		730	860
300PSI (20.7 Bars)		900	1080
350PSI (24.1 Bars)		1050	1190



### '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





### HAMMER ASSEMBLY AND PART NOS.

Sr. No.	Particulars	Qty	Lotus FF 6	Lotus FF 8
1	TOP SUB	1 No.	L06 15001	L08 20001
2	WEAR SLEEVE	1 No.	L06 15002	L08 20002
3	CHECK VALVE	1 No.	L06 15003	L08 20003
4	SPRING	1 No.	L06 15004	L08 20004
5	TOP VALVE	1 No.	L06 15005	L08 20005
6	BUFFER RING	2 Nos.	L06 15006	L08 20006
7	LOCK PIN	1 No.	L06 15007	L08 20007
8	CONTROL TUBE	1 No.	L06 15008	L08 20008
9	PISTON	1 No.	L06 15009	L08 20009
10	GUIDE BUSH	1 No.	L06 15010	L08 20010
11	BIT RETAINER RING	1 No.	L06 15011	L08 20011
12	DRIVE SUB (Front Chuck)	1 No.	L06 15012	L08 20012
13	CHOKE	1 No.	L06 15013	L08 20013
14	SNAP RING	1 No.	L06 15014	L08 20014
15	O RING SET (NOT SHOWN)	1 Set	L06 15015	L08 20015



### BUTTON BITS FOR ALL TYPES OF HAMMERS

We supply Button bits of all types & sizes for Leading International Brand models of hammers and also we can manufacture bits for any make of hammers with exact specifications and material property as per client's sample in any bulk or small quantity at very good prices.

We undertake job works of all spare parts of DTH Hammers as per engineering drawings or physical samples provided by clients