

# GITA PUMPS

AN ISO 9001:2008  
CERTIFIED COMPANY

HORIZONTAL  
SPLIT CASING  
**'ST'**



**APPLICATIONS:- BOOSTER SERVICE,  
FIRE FIGHTING MINES, PROCESS INDUSTRIES,  
WATER WORKS, IRRIGATION.**

**DESIGN FEATURES:-** Gita make ST pump are horizontal split casing, horizontal shaft, two stage centrifugal pumps, They employ two single entry closed impellers, mounted on shaft with suction in opposite direction. This arrangement balances the end thrust hydraulically..

**RANGE OF SIZES:-** These are primarily designed to run at 1440 RPM and available in sizes from 50 MM suction to 300 MM suction. Head ranges from 10 to 180 Meters and capacity from 2.5 to 230 liters per second.

**MATERIAL OF CONSTRUCTION:-**

Available in all iron Fitted, Bronze Fitted, Stainless steels Fitted construction or any other combination of metallurgy as per customer's specifications.

**CONSTRUCTIONAL DETAILS:-**

**CASING :** Close grained cast iron, split horizontally, lower half contains delivery and suction branches. Easy inspection by removing upper half and rotor assembly. Closed impellers, machined all over, internal passages smooth finished for high efficiency, dynamically balanced after assembling on shaft.

**IMPELLERS:-** Closed impellers, machined all over, internal passages smooth finished for high efficiency, dynamically balanced after assembling on shaft.

**SHAFT:-** Designed for maximum load with adequate factor of safety, accurately ground and finished, effectively protected from liquid to be pumped.

**IMPELLER NECK-RINGS:-** Renewable neck rings are provided to keep suction improved, secured in casing bore by half spigot joint.

**BEARINGS:-** Antifriction grease lubricated, heavy duty ball bearings capable of continuous operation.

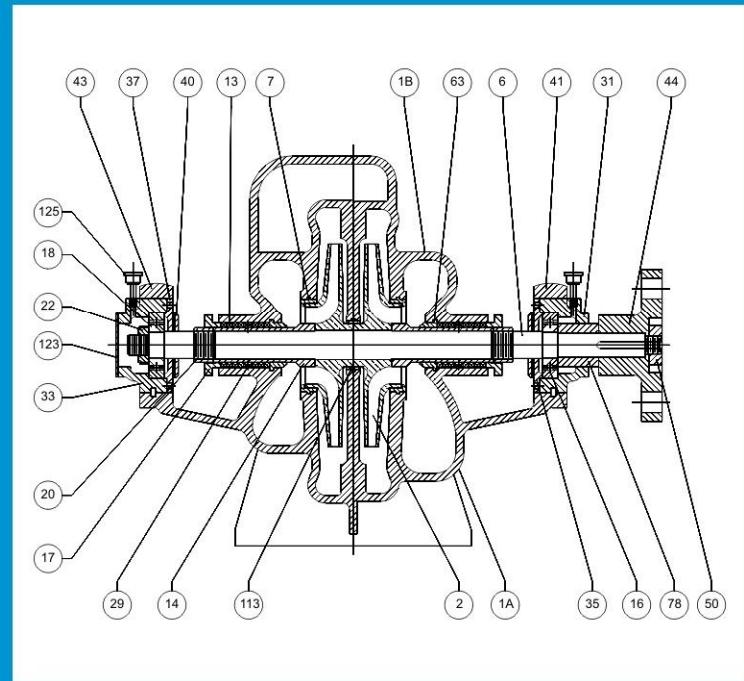
**FLANGES:-** Drilled to BS-10 table D or ISS or other standard as per customer's specifications.

**ROTATION:-** Standard is clockwise, looking from driver end, other as per requirement.

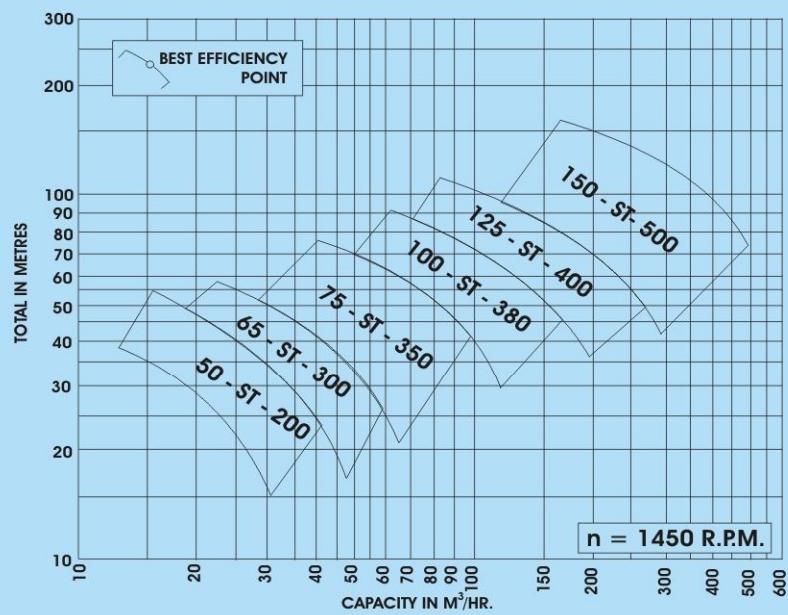
# CROSS SECTIONAL VIEW OF "ST" PUMPS

No. Part Name

1A	CASING (LOWER HALF)
1B	CASING (UPPER HALF)
2	IMPELLER
6	SHAFT (PUMP)
7	WEAR RING IMPELLER
13	GLAND PACKING
16	BEARING (IN BOARD)
17	GLAND
18	BEARING (OUT BOARD)
22	BEARING LOCK NUT
29	CAGE RING
31	BEARING HOUSING (IN BOARD)
32	IMPELLER KEY
33	BEARING HOUSING (OUT BOARD)
35	BEARING COVER (IN BOARD)
37	BEARING COVER (OUT BOARD)
40	DEFLECTOR
41	BEARING CAP (IN BOARD)
43	BEARING CAP (OUT BOARD)
44	COUPLING (PUMP HALF)
46	COUPLING KEY
50	COUPLING NUT
63	GLAND BUSH
78	COUPLING SPACER
113	MIDDLE BUSH
123	BEARING HOUSING END COVER
125	GREASE CUP
127	GLAND SEALING PIPE
176	SLEEVE SPACER



## PERFORMANCE CHARACTERISTICS 1450 RPM MODEL "LF"



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