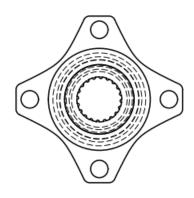
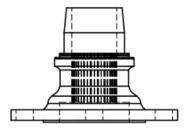
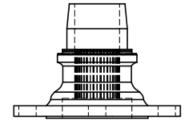
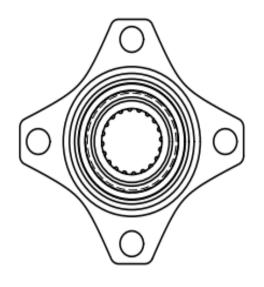
- 210003013- Anurag Srivastava
- 210003014- Apoorva Vaidya
- 210003015-Arruri Sathwik
- 210003016-Aryan Kulkarni



Different views of final product





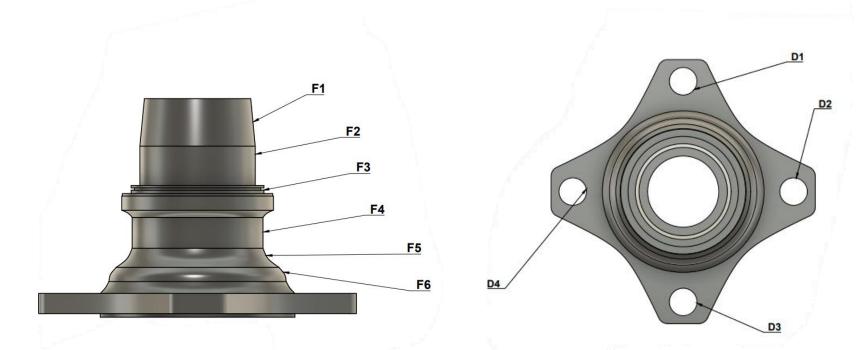




S.no.	Process Description	Machine Used	Tool	Product
1.	Casting  Material is first liquified by proper heating it in suitable furnace. Then, the liquid is poured into a prepared mould cavity where it is allowed to be solidified.	Cast Furnace	Sand, Drag, Cope, Shovel, Rammer, Vent wire, Mallet, core, two-piece pattern, etc.	

#### **COMPONENT DETAILS**

SIZE (DIAMETER)	LOCATION	NO. OF HOLES
46.7 MM	F1	_
48.6 MM	F2	-
55.97 MM	F3	-
55.14 MM	F4	-
68.5 MM	F5	-
74.7 MM	F6	-
14 MM	D1, D2, D3, D4	4



S. no.	Process Description	Machine Used	Tool	Location	Fixture
2.	Turning to give surface finish on our casted product (F1, F2, F3, F4, F5, F6)	Lathe Machine	Single point cutting tool  WC (Tungsten Carbide)	SURFACE FINISHING IS DONE ON SHOWN SURFACES BY TURNING PROCESS  F2  F3  F4  F5  F6	

S. no.	Process Description	Machine Used	Tool	Location	Fixture
3.	Manufactu ring Internal Spline using Shaping	Shaping Machine	18 teeth Spline Adaptor WC (Tungsten Carbide)	Internal Splines Spline Shaping	Bench vise

S. no.	Process Description	Machine Used	Tool	Location	Fixture
4.	Drilling (D1, D2, D3, D4)	Radial drilling machine	Drill bits and End milling cutters WC (Tungste n Carbide)	ALL SHOWN REGIONS ARE DRLLED  D2  D3	

S. no.	Process Description	Machine Used	Tool	Location	Fixture
5.	Boring	Vertical Boring Mill	End milling cutters WC (Tungsten Carbide)	Boring Operation	