

Hexes India Pvt Ltd.

An AbsolutePrecision Engineering Company.



Hexes India Pvt Ltd.



History:-

HexesIndia started in Feb-2015 with a 4-axis VMC machine in Vasai (Mumbai) and an office consisting of few computers to Program the machine as well as provide CAD/CAM services and Training to local machine shop owners.

Since then we got more focused towards quality workmanship using high technology CAD/CAM software to machine precision engineering components.

Mission:-

Our Mission is to provide customers with Quality components and meet their delivery time. Utilising the best technologies of engineering to manufacture high quality parts, with no tolerance for Rejection or Rework.

Vision:-

To reach a peak where "An Absolute Precision Engineering " would not remain just an art, but a pure science which can be achieved consistently.

Our core values reflect in everything we do.

- Passion
- Workmanship
- Accountability
- Respect
- Integrity
- Consistency



Mr. Dmello completed his Engineering and later persuaded Business Management from Mumbai university . Having a strong work experience of 15 years in the field on CAD/CAM, his major concentration was on Multi-Axis machining for.

- 1 Manifolds
- 2 Aerospace Components
- 3 Ordnance parts
- 4 Medical and Joint replacements parts

Providing Process planning ,Jigs-Fixtures and CAM solutions for suppliers working for Magellan Aerospace ,Rafael Aerospace, Hindustan Aeronautical Limited , Railways, Godrej & Brahmos.



Our Team,

Work together as a Team
&
Party together as a Team

Employees are the ones who shape the vision, define the mission, create the culture, set the values and adopt the strategies for their realization



Our Machining Capabilities .



4Axis VMC
850x550x500
With ATC and 4Axis



3Axis VMC
600x400x400
With ATC.
40000 rapid.
Auto door
closure



CNC Turning
Ø250 chuck .
Length 300mm
12 station turret
Thru coolant.



- <https://www.youtube.com/watch?v=d4aTYXIRU1U>
- <https://www.youtube.com/watch?v=1JNfCIPFLsA>
- <https://www.youtube.com/watch?v=Ti9VKm3FRn0>
- <https://www.youtube.com/watch?v=659hq66inIM>

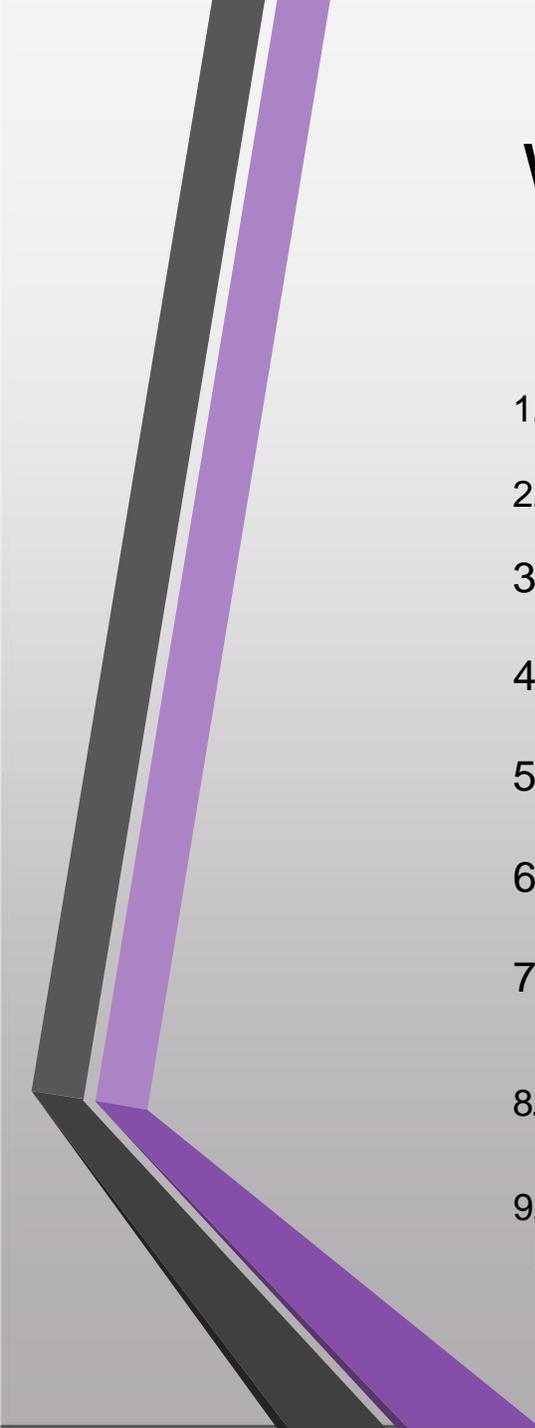
3 Axis VMC
650x450x450
With ATC



Enhanced Machining capability for multi axis positional components.
Thereby increasing Productivity and Accuracy .

Recently Added a 5-Axis VMC machine



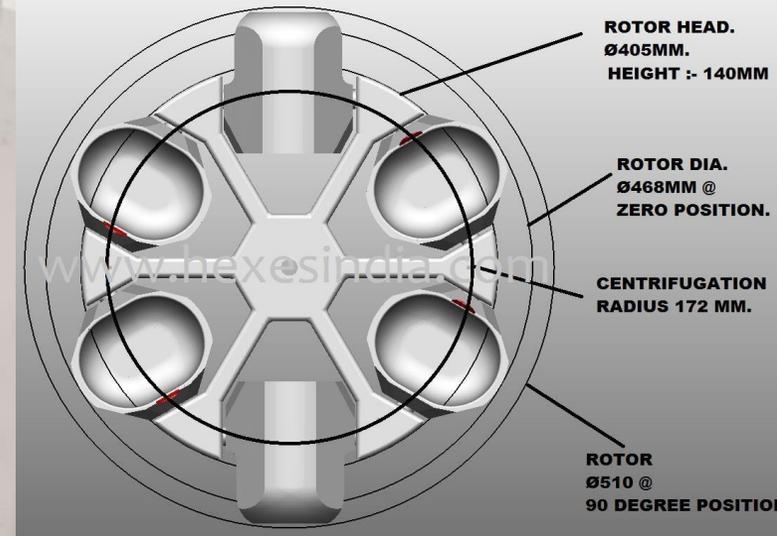


We manufacture Rotor Heads for Centrifuges and other Mechanical assemblies.

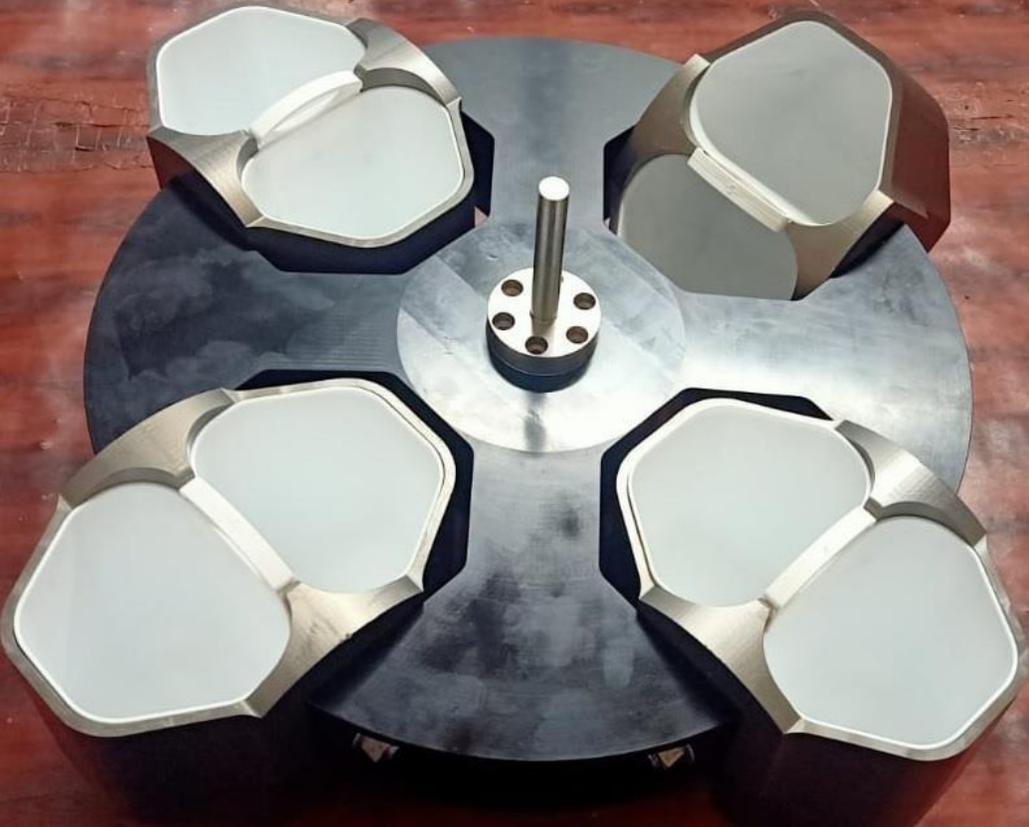
1. Aluminum grade 6082T6 with material test certificate. We also manufacture in Aerospace grade aluminium.
2. Weight of all carriers are maintained within 1 gram.
3. Maximum rpm up to 4200.
4. Single pin assembly made from stainless steel 304, for better stability at high rpm.
5. Dynamic balancing at 2000 rpm to avoid vibrations at high rpm.
6. Soft and Hard Anodizing upto 45-HRC for aluminium components.
7. Center Brass/Stainless steel bush assembly as per motor shaft design.
8. Engraving company logo and important specification on the head.
9. We have our own in house inspection and assembly team that ensures proper weight of each carrier and balancing of the entire assembly.



6,8,12 and 16 Bag Blood Centrifuges.







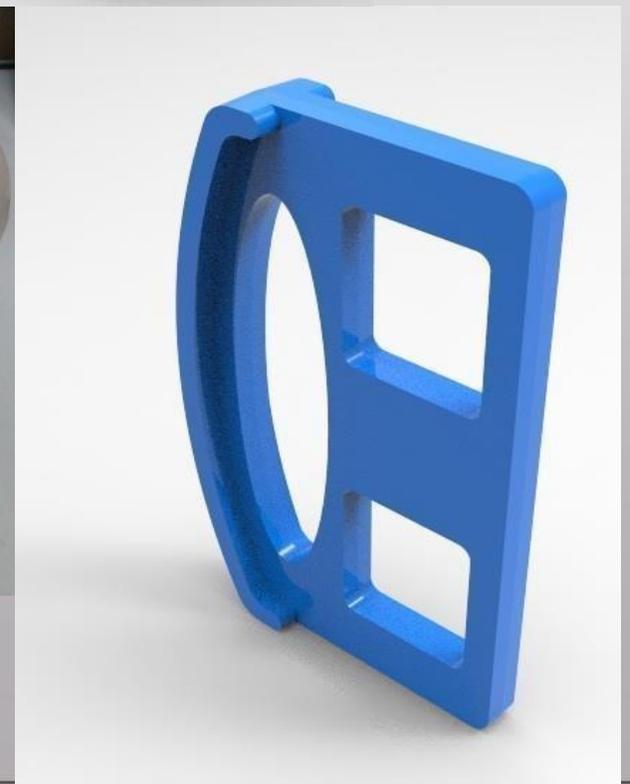
Latest Development:-

1. Aluminium Aerospace Grade.

2. Hard Anodized 35Hrc with 30micron layer.



Other Plastic inserts
and components.



Various types of Plastic Inserts





Wind Shield

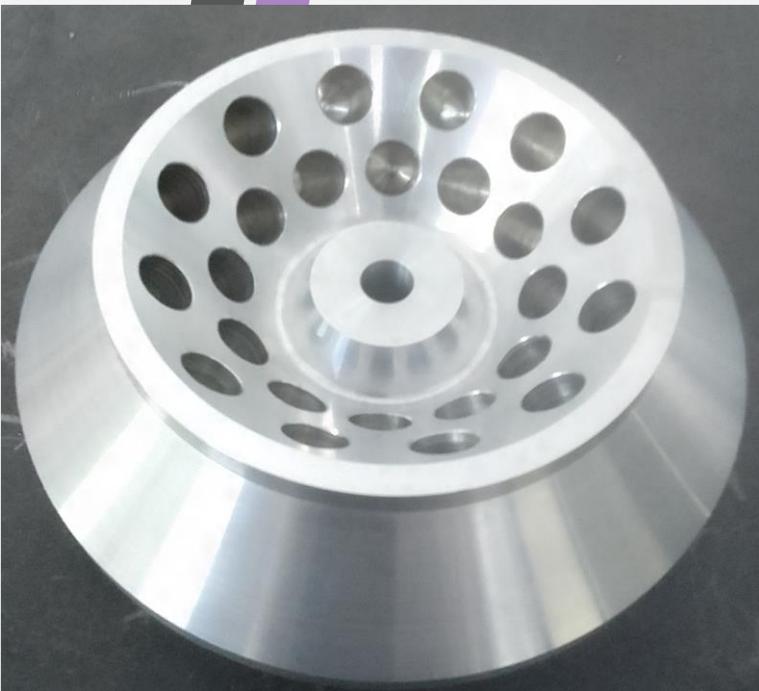




We also have a wide range for test-tube type centrifuges.



Fixed rotors and other turned components









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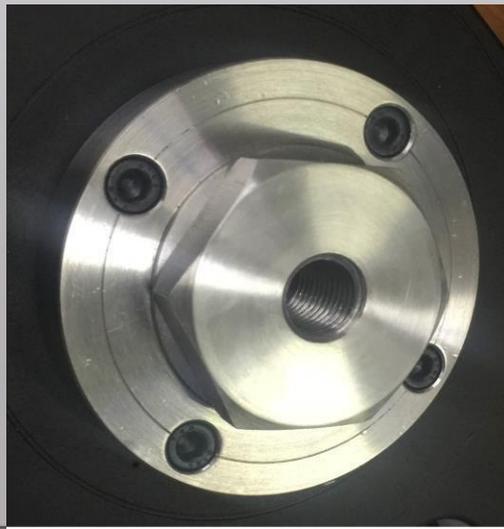
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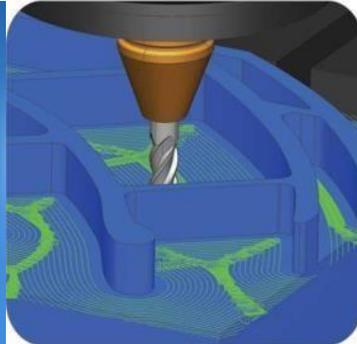
HEXES INDIA

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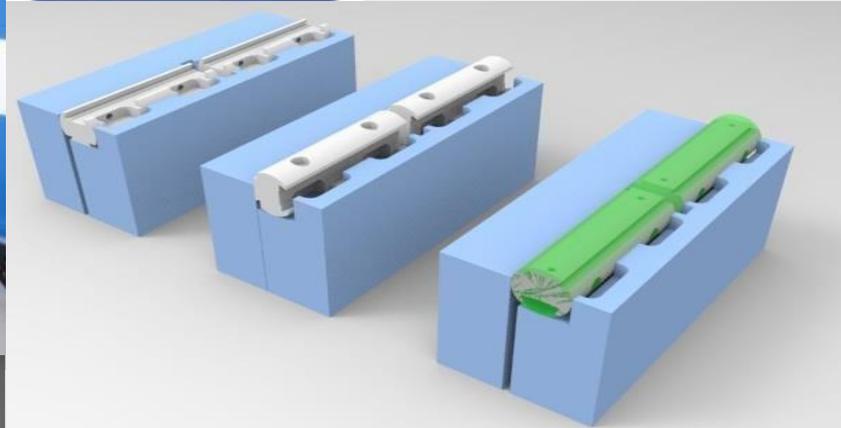
Other Speciality components.





Our Manufacturing Process starts with:-

- .Design,Analysis & Program.
- .CNCMilling & CNCturning.
- .Weight Calibration.
- .Inspection.



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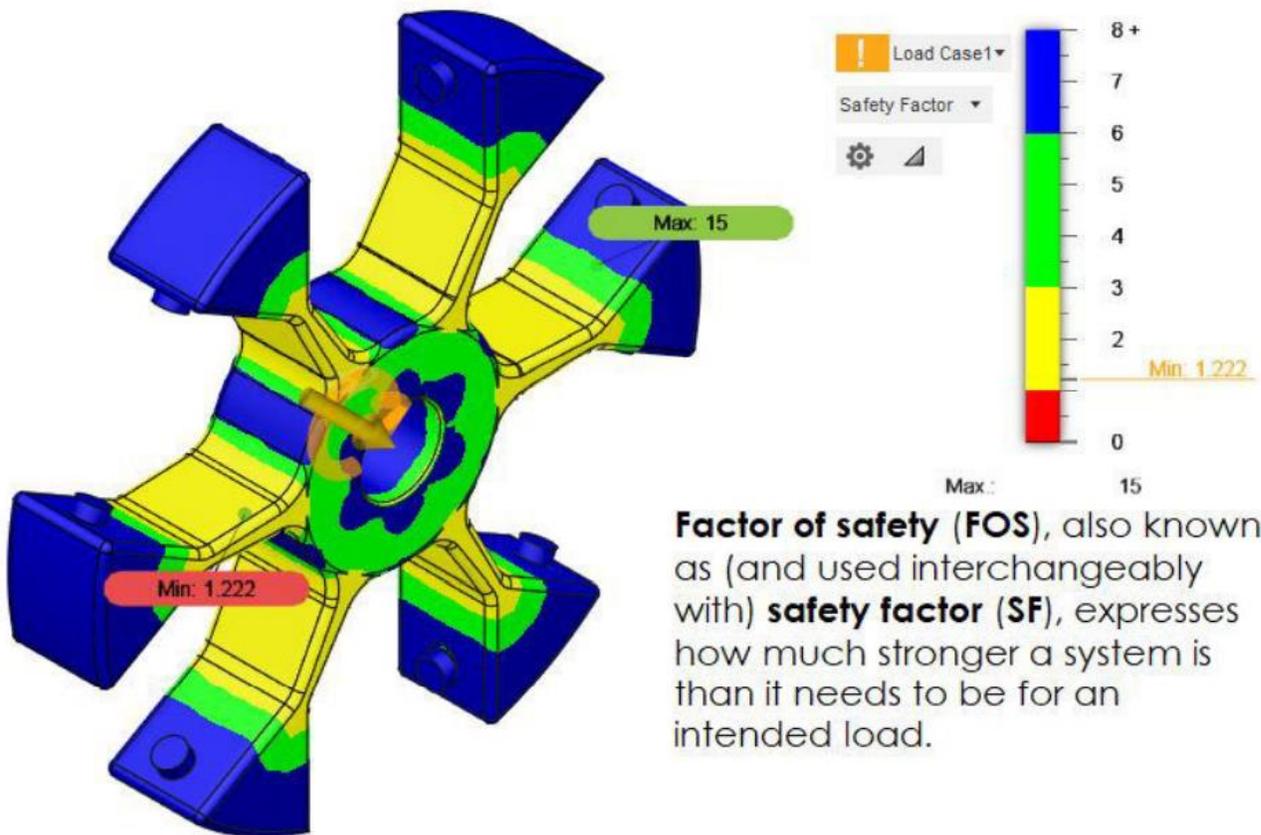
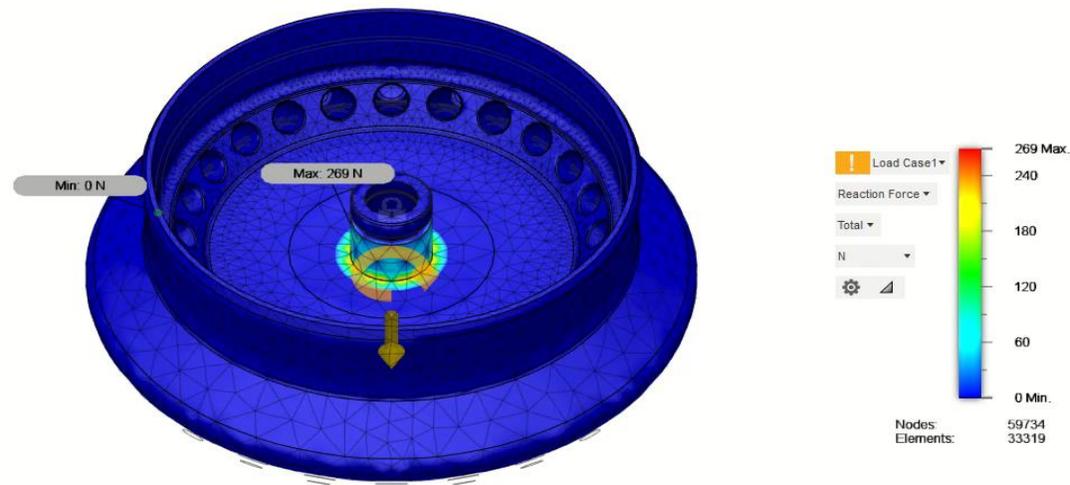
O0001
N1( TOOLPATH : I-1-TWR )
N2( Program By : (www.hexastadia.com) )
N3( OUTPUT WORKPLANE : POST-01 )
N4( TOOL DIA. M2, TIP RAD 2, LENGTH 200 )
)
N5 M6 T6
N6 M3 S6000
N7 G0 G54 G90
N8 G43 H06 Z100.
N9( Tool : Centrifuge Head )
N10 X6.742 Y-86.02
N11 Z100 MR
N12 Z30
N13 X16.742 Y-86.02 E24.5 F500
N14 G41 Y-86.02 F3500
N15 M3 S1500 Y-81.062 R5.
N16 X16.742 F400
N17 G1 X16.631

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Best use of CAD/CAM Technology for.

- . Product Design.
- . Simulation.
- . Rendering &.
- . CNC Programming.



Factor of safety (FOS), also known as (and used interchangeably with) **safety factor (SF)**, expresses how much stronger a system is than it needs to be for an intended load.

Rotor Analysis before Manufacturing.

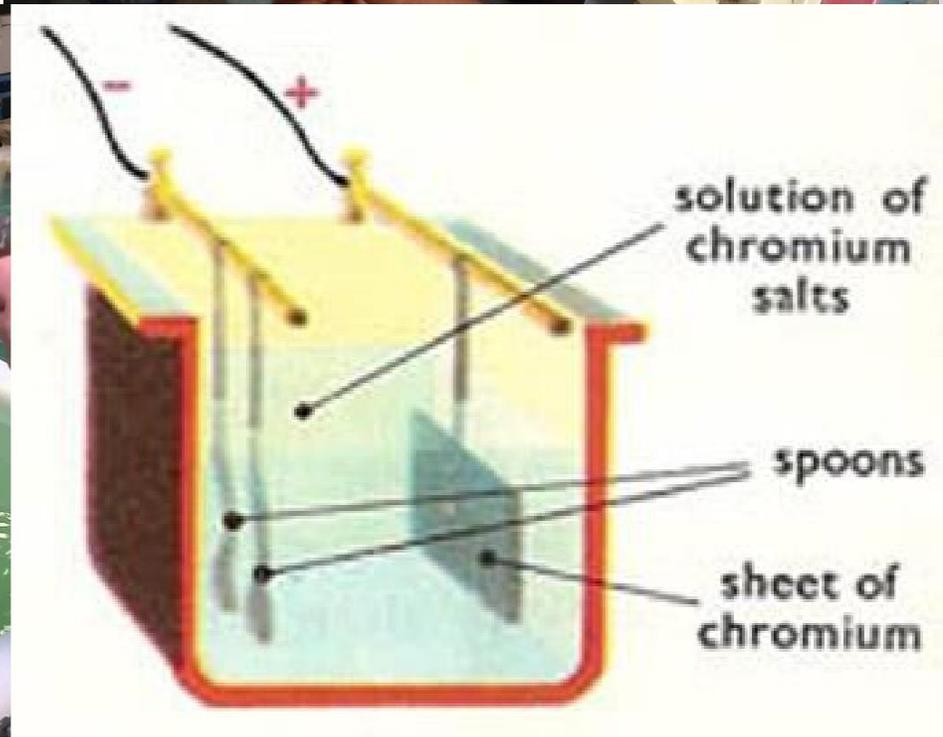
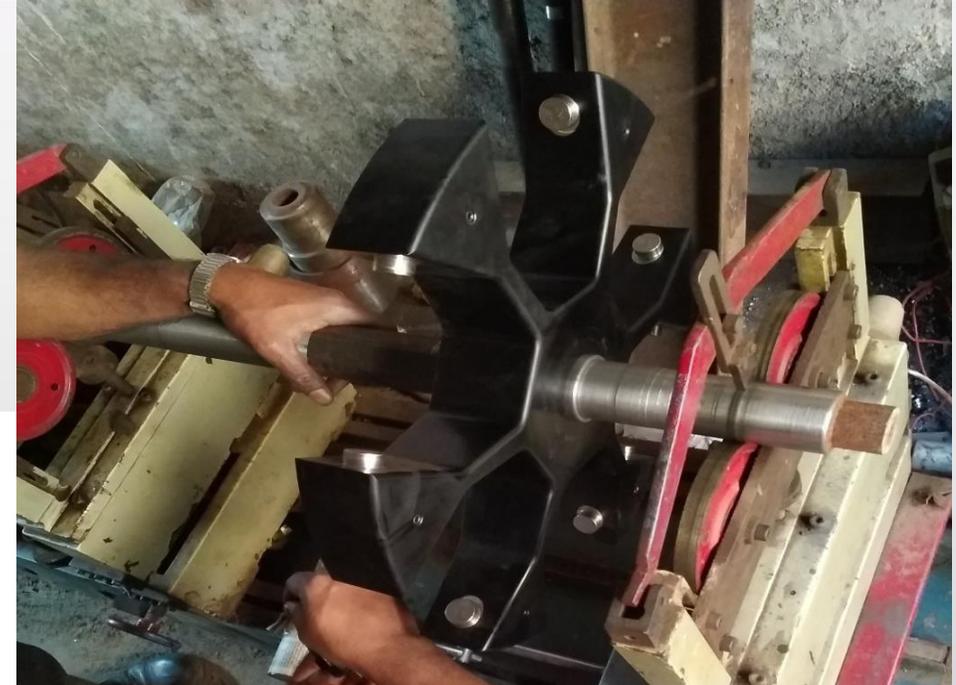
Unique CNC engraving and laser marking





Other Speciality Process likes.

- .CNC Engraving.
- .Anodizing.
- .PTFE Coating.
- .Hard Anodizing.
- .Hard Chrome Plating.
- .Dynamic Balancing.



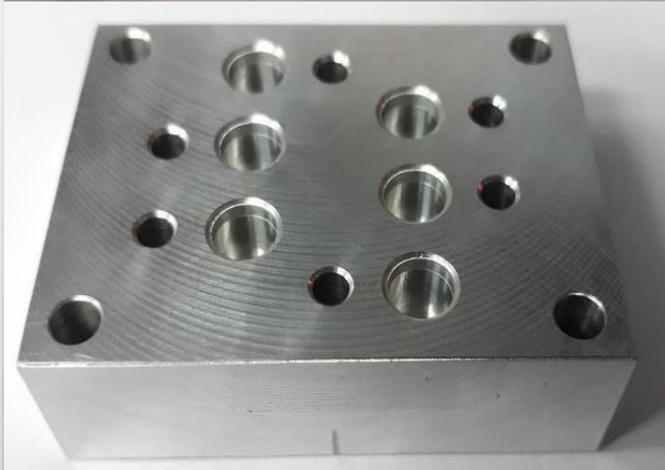


Quality Packing to avoid damage during transport.

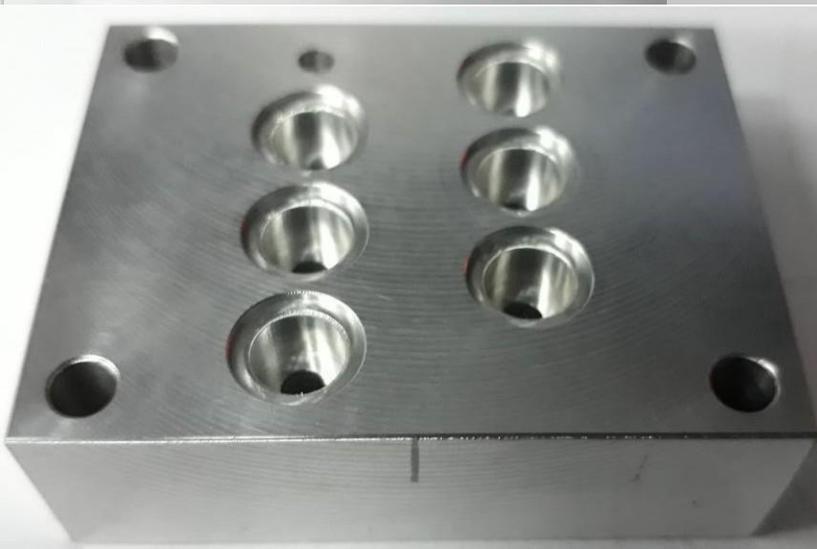


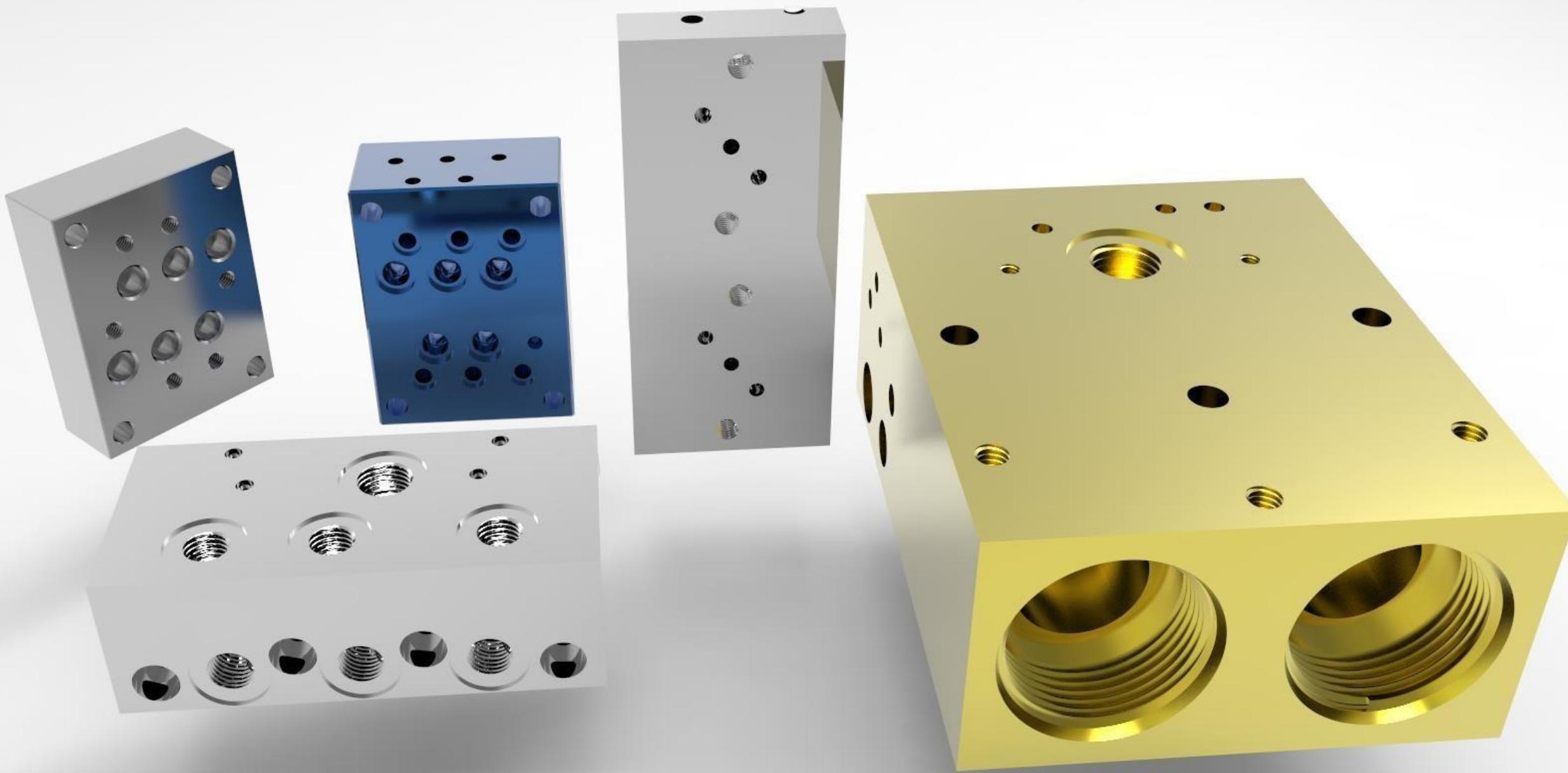
Complicated jobs can be taken on 5axis

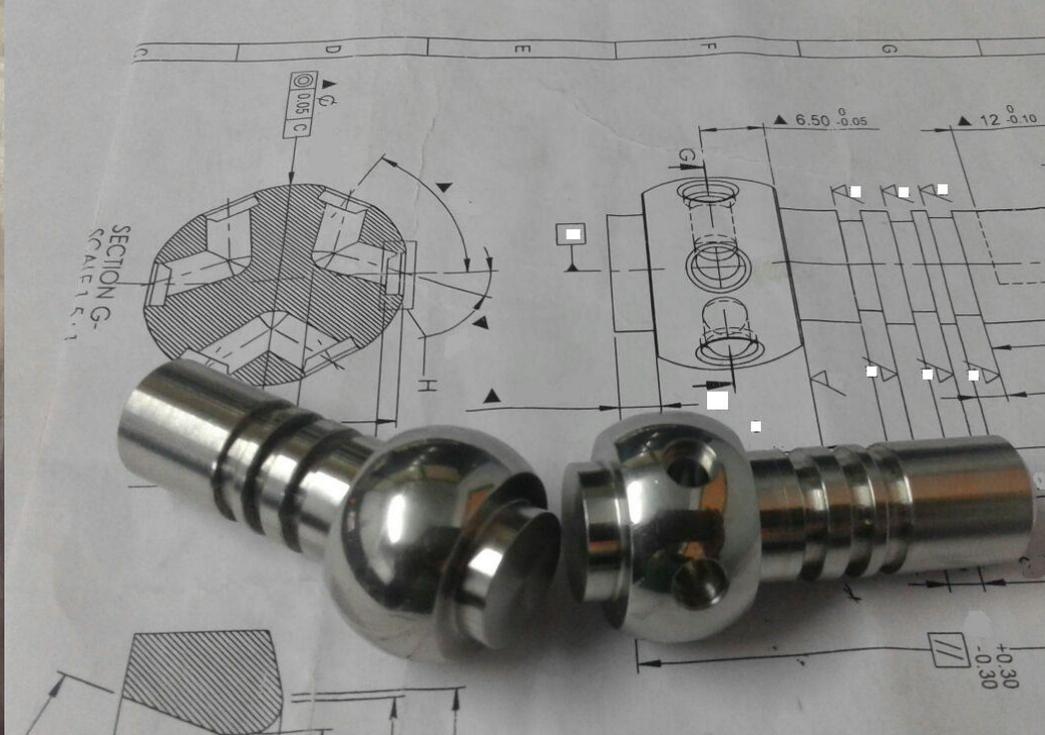




Manifolds.









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India. 401208.

Email:- sam@hexesindia.com

Tel no :-+91-9819933747

Web Page : -www.hexesindia.com

Thank
you

