

The performance capabilities of machines have been increased remarkably in recent years. As the technology is advancing towards all sectors of industry tolerances which were dream before have come into reality. Clamping technology needs to be maximum precise and reliable in manufacturing and inspection to support it. Hydraulic expanding work and tool holdings are one of the most reliable, precision and high performance tools that are used today by leading automobile industries.

At Dinanath we manufacture variety of Hydraulic Expanding Work & Tool Holdings which cover wide range of applications. Our experienced design and development team having experience of more than one decade is always ready to accept new challenges to develop perfect solution for almost any requirement.

Our state-of-the art design and manufacturing infrastructure has set our position as the most prominent and reliable supplier for hydraulic work and tool holdings in domestic & international market.

Dinanath products cover wide application in the areas of manufacturing, assembly and inspection with highest precision standards for run-out accuracies and repeatability.

We design & develop customized clamping solutions on the basis of the requirement provided by our customers which is discussed thoroughly by our technical team resulting in providing solutions which are innovative, durable, most productive and quality oriented.

APPLICATIONS

Gear Shaving | Gear Hobbing | Gear Honing | Gear Grinding | Gear Inspection

OD/ID Cylindrical Grinding | Cutter Grinding | Rotor Turning | Liner Turning | Balancing | Fixture Location

Hydraulic mandrels

Principle of working

DINANATH Hydraulic mandrels function by expanding or compressing under hydraulic pressure. The hydraulic system is integral and may be manually or power actuated.

Extreme accuracy in component location is assured as the sleeves expand or contract under equalized hydraulic pressure uniformly from their geometric axis within 0.003mm or less if required specially.

These mandrels may be manual or auto actuated depending on the requirement of customer. In auto actuated mandrels centering is performed via. the tailstock center by simultaneous axial pressure against the contact face of mandrel and workpiece

Dinanath hydraulic mandrels are oil filled and do not require frequent top up.

Features of DINANATH Hydraulic Mandrels

- Quick clamping/release of component without the problem of jamming
- Super precision Radial Run-out Accuracy upto 0.002mm achievable.
- High Torque Transmission
- Long Operation Life and high dirt resistivity
- Easy to operate









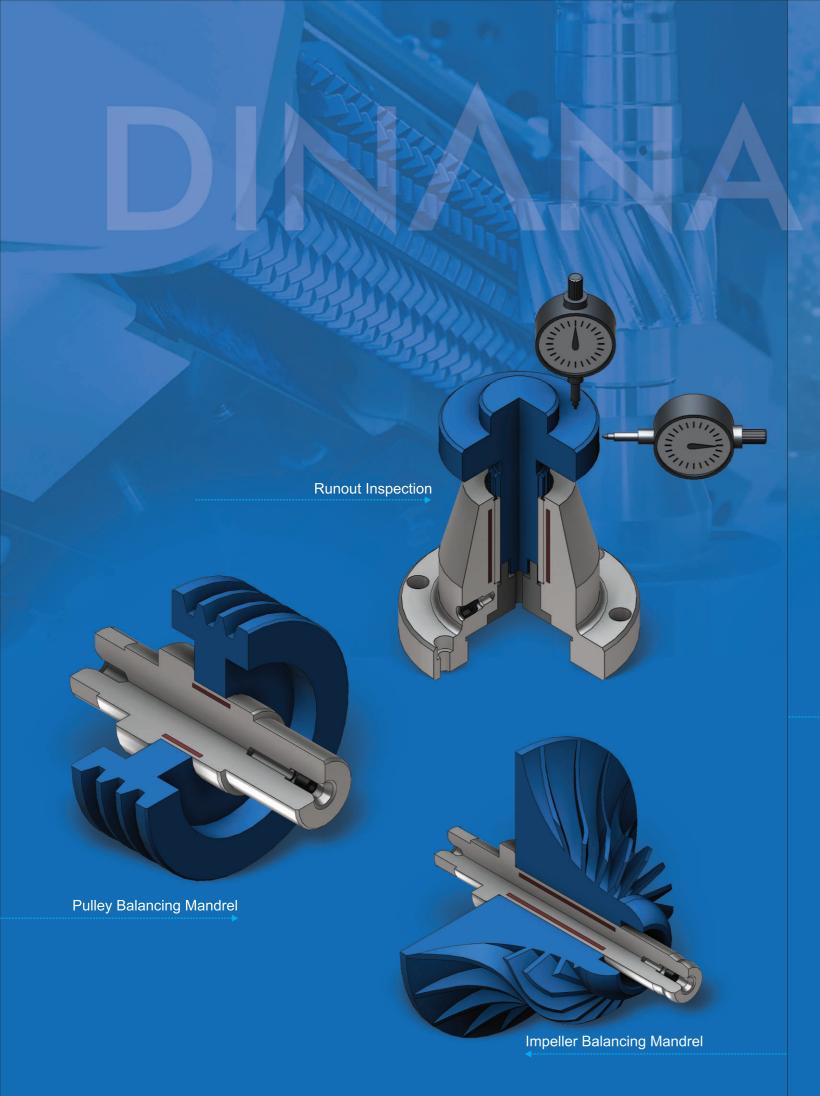


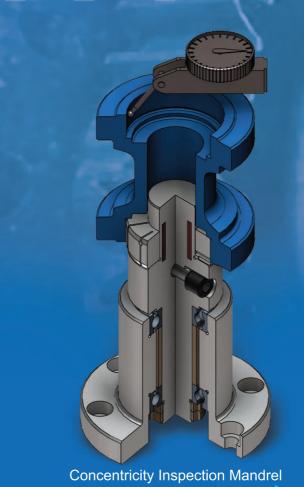
- ► Manual or auto actuation with tailstock or Draw-bar
- ► High clamping force to sustain torque of Turning



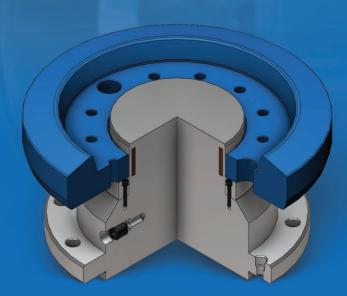




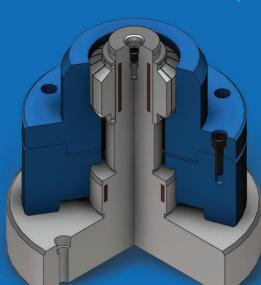




Special applications



Milling, Boring and PCD Drilling



Alignment Mandrels for Assembly



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