PRECISION MACHINE TOOL ACCESSORIES, EXPANDING MANDRELS, CLAMPING FIXTURES, WORK HOLDING SYSTEMS AND COLLETS.
### Center to Center Expanding Mandrel (Type: ABKC)

**Application:**
- Concentricity and true running Inspection, Turning, Grinding holding between centres.
- Balancing etc.

**Special Features:**
- Hand operated clamping, wide clamping range.
- Concentricity: 0.015mm

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### Center to Center Expanding Mandrel (Type: ACS)

**Application:**
- Concentricity and true running Inspection, Turning, Grinding holding between centres.

**Special Features:**
- Hand operated clamping, cylindrical clamping, with axial tightening. Possibility of mounting a longitudinal stop fixed to workpiece wide chucking range.
- Concentricity: 0.007mm

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### Face Plate Type Expanding Mandrel (Type: AFS)

**Application:**
- Turning, Grinding, Cutting, Balancing etc.

**Special Features:**
- Very stable type for accurate machining, with axial tightening, rapid change and high torque transmissions.
- Concentricity: 0.015mm

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### Center to Center Conical Type Expanding Mandrel (Type: APBL)

**Application:**
- Concentricity and true running Inspection, Turning, Grinding holding between centres.

**Special Features:**
- Hand operated clamping, wide clamping range
- Concentricity: 0.007mm

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EXPANDING MANDRELS & FIXTURES FOR SUBMERSIBLE PUMPS MANUFACTURERS

- Broaching Mandrel
- Expanding Mandrel For Stator Body Turning
- Expanding Mandrel For Upper Lower Housing
- Fixtures For Impellor Balancing
- Multi-Spindle Drill Head
- Tube Expander

EXPANDING MANDRELS & FIXTURES FOR HOBBING AND GRINDING M/c FOR GEAR MANUFACTURERS

- Collet Type Clamping Fixtures For Hobbing & Shaving
- Emuge Type Expanding Bush
- Flange Type Expanding Mandrel
- Collet Type Clamping Fixtures For Pinion Grinding
- Conical Type Expanding Mandrel For Gears Grinding

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**CENTER TO CENTER EXPANDING MANDREL (TYPE : ASA)**

- **Application:** Concentricity and true running Inspection, light Turning and Grinding work, holding between centers.
- **Special Features:** Hand operated, cylindrical clamping, wide clamping range.
- **Concentricity:** 0.010 mm

**CENTER TO CENTER EXPANDING MANDREL (TYPE : AZB)**

- **Application:** Concentricity and true running Inspection, Turning, Grinding holding between centres.
- **Special Features:** Hand operated by clamping ring, with axial tightening, with longitudinal stop, high torque, high precision.
- **Concentricity:** 0.010 mm

**MODEL | RANGE | L | A | E | G | H**

**AZB01** 12-14.5 97.5 14 26 31 29
**AZB02** 15-19 102.5 18 30 38 30
**AZB03** 19.5-24.5 113.5 20 36 47 30
**AZB04** 24.7-28.7 136 25 42.5 54 40
**AZB05** 29.7-33.7 144.5 30 46 57.5 40
**AZB06** 34.7-38.7 156 40 52.5 66 40
**AZB07** 39.7-43.7 166.5 40 58 74 40
**AZB08** 44.7-53.7 197 45 76.5 83 45
**AZB09** 54.7-63.7 208.5 50 85 93 48
**AZB10** 64.7-78.7 221.5 50 96 108 50
Product List

- Split Sleeve for Drill, Tap, Centre Drill
- Reduction Sleeves & Extension Sockets
- Quick Change Drill Chuck for Fast Drilling
- Adjustable Adaptors
- Heavy Duty Tap Holders
- Multi Spindle Drill Head / Gang Drilling
- Reduction Milling Sockets
- Morse Taper Reduction Bush (Lathe Bush)
- Collet Adaptors in ISO, Morse Taper & M1TR Taper
- Stub Arbors in ISO & Morse Taper
- End Mill Holders (Side Lock Holder) for Face Mill Cutter
- Grinding Spindle (Quill)
- Collet Chuck for Internal Grinding Mounted Points
- Turret Sleeves, Boring Bar Sleeves
- Hobbing Arbors & Thread Milling Arbors
- Long Milling Arbors
- Boring Bars
- Tool Clamping Fixtures for MT/ISO/BT/KTM etc Shank
- Adaptors for Microboring Ring & Boring Facing Head
- Pull Stud (Draw Bolt)
- Plug Gauge & Ring Gauge (Plain / Carbide Tipped)
- CNC Tool Holders

Dead Centres
- Plain Dead Centres (Full & Half)
- Carbide Tipped Dead Centres (Full & Half)
- Special Dead Centres as per customer requirements

Revolving Centres & Pipe Centres
- Standard Revolving Centre
- Heavy Duty & Extra Heavy Duty Centres
- High Precision Revolving Centres for CNC M/c.
- Interchangeable Inserts Type Revolving Centres & Pipe Centres
- Carbide Tipped Revolving Centres for Wear Reducion
- Pipe & Bull Head Centres for Tubes & Hollow Workpiece

Collets
- E-40 Schaublin Collet (IS:6238-1971)
- M-Series Collet DIN-6388
- ER Series Collet DIN-6488
- 5C Collets
- High Grip Collet
- Tool & Cutter Grinder Collet
- Pentograph Engraving M/c. Collet
- Traub Automates M/c Collet
- M1TR/R8 M/c Collet / Bridge Port M/c Collet
- Special Collets as per customer requirements

We Design, Developed & Manufacture Special Precision Expanding Mandrels, Clamping Fixtures, Collets, Tooling Systems & Import Substitute Items as per customer Requirements / Drawings / Samples.