Business & Product Profile

Contact Details

Address: No.80, 1st Floor, B.D.A. Commercial Complex, Indiranagar, Bangalore, Karnataka - 560 038, India
Phone: +91 - 80 - 25258885
Mob: +91 09845017701
Fax: +91 - 80 - 25257650
Email: design@conceptarbors.net
Web: www.conceptorbors.net

www.conceptorbors.net
Contents

Executive Summary ........................................................................................................... 3
Our Strengths ................................................................................................................... 3
Product Range ................................................................................................................. 4
Our Products and their Applications .............................................................................. 5
Hydraulic Clamping Systems ......................................................................................... 5
  Application Examples .................................................................................................. 6
Finish Turning Mandrels/Arbors ...................................................................................... 6
  Application Examples ................................................................................................. 7
Milling & Drilling Mandrels/Arbors ................................................................................ 8
  Application Examples ................................................................................................. 9
Cylindrical Grinding Mandrels/Arbors ............................................................................ 10
  Application Examples ............................................................................................... 11
Gear Hobbing Mandrels/Arbors ....................................................................................... 12
  Application Examples ............................................................................................... 13
Gear Shaving Mandrels/Arbors ....................................................................................... 14
  Application Examples ............................................................................................... 15
Gear Grinding Mandrels/Arbors ....................................................................................... 16
  Application Examples ............................................................................................... 17
Gear Honing Mandrels/Arbors ....................................................................................... 17
  Application Examples ............................................................................................... 18
Dynamic Balancing Mandrels/Arbors ............................................................................ 19
  Application Examples ............................................................................................... 20
Fixture Location Mandrels/Arbors .................................................................................. 20
  Application Examples ............................................................................................... 21
Inspection Mandrels/Arbors ......................................................................................... 22
  Application Examples ............................................................................................... 22
Contact Us ................................................................................................................... 24
Confidentiality & Communication ................................................................................. 24
Conclusion .................................................................................................................... 24
Executive Summary

Concept Engineers, the pioneer in precision engineering designs and tools was established in 1984 by a team of young, dynamic and professional engineers to manufacture a range of precision Concept Hydraulic Chuck and Mandrels/Arbors, Taper Collets and Hydraulic Fixtures for the first time in the country.

At Concept Engineers, we blend technology, creativity, quality, professionalism and industry experience with right skills, methods and processes to create products that are extremely precise and suit client’s engineering product requirements and specifications. Our focus is on providing design-specific, quality engineering products at reduced costs. Whether it is just a small gear or a complex engineering product, we take all the pain and care to give you the best products.

Given our experience and expertise in engineering products, we believe that we can offer unique and superior products to all kinds of engineering requirements. In 25 years, we have manufactured an exhaustive range of engineering products such as Hydraulic Clamping Systems, Finish Turning Mandrels/Arbors, Milling & Drilling Mandrels/Arbors, Cylindrical Grinding Mandrels/Arbors, Gear Hobbing Mandrels/Arbors, Gear Shaving Mandrels/Arbors, Gear Grinding Mandrels/Arbors, Gear Honing Mandrels/Arbors, Dynamic Balancing Mandrels/Arbors, Fixture Location Mandrels/Arbors, and Inspection Mandrels/Arbors.

Our Strengths

Our strengths include

- Rich industry experience
- Ethical business practices
- Attention to detail
- State-of-the-art infrastructure
- Strict inspection and monitoring
- Competitive prices
Product Range

- Hydraulic Clamping Mandrels/Chucks
- Finish Turning Mandrels/Arbors
- Milling & Drilling Mandrels/Arbors
- Cylindrical Grinding Mandrels/Arbors
- Gear Hobbing Mandrels/Arbors
- Gear Shaving Mandrels/Arbors
- Gear Grinding Mandrels/Arbors
- Gear Honing Mandrels/Arbors
- Dynamic Balancing Mandrels/Arbors
- Fixture Location Mandrels/Arbors
- Inspection Mandrels/Arbors

Features & Benefits

- Sophisticated, State-of-the-art Engineering Designs
- In compliance with industry standards and specifications
- High quality and precision
- Uncompromising thoroughness
- Easy implementation and maintenance
- Provide optimum solution to weak links in machining chain
- Solve most difficult clamping problems
- Reduce rejections to a minimum
- Reduce cost
- No requirement of additional skill
- Adopted to perform any machining operation

Our Clientele

Today, we are proud to have earned reputation in India and western countries like USA, Canada for our outstanding product quality and service. We have satisfied clientele of leading engineering companies that are not only small, medium and large but are also from the private and public sectors.
Our Products and their Applications

Hydraulic Clamping Systems

Hydraulic Clamping Systems open new ways in mastering the most difficult situation with uncompromising thoroughness. We use sophisticated technology, perfect construction and special materials that make clamping devices a generation ahead of the conventional work holding fixtures in clamping force, clamping accuracy and load torque.

- Improves quality and efficiency in all areas of machining and inspection
- Solves the most difficult clamping issues
- Reduces rejections to a minimum
- Allows mounting of several piece parts
- Reduces mounting and dismounting time
  - No tapered mandrel
  - No hammering
  - No arbor press
  - No deformation of work piece or damage to the clamping surface
  - No loose components
  - No axial movement while clamping
- Reduces cost in every aspect
- Flexibility of design and application
  - Can be adopted to perform any machining operations of turning, copy turning, boring, drilling, gear cutting, gear finishing etc.
  - Can be extended to clamp on blind bores
  - Splined or threaded bores can be located on the major/minor/pitch-line diameter.
- No requirement of additional skill
- Low maintenance
Hydraulic Chuck & Tool Locator

Application Examples

Finish Turning Mandrels/Arbors

We manufacture high quality Finish Turning Mandrels/Arbors that can be used in all kinds of finish turning applications.
- Ensures smooth finish
- Attains the best possible concentricity
- Increases productivity and tool life
- Reduces cost in every aspect
- No requirement of additional skill
- Low maintenance

Finish Turning Mandrels

Application Examples

OD Turning of Rotor Part w.r.t. Bore

ID Turning on VMC w.r.t. Smaller Bore
Milling & Drilling Mandrels/Arbors

We manufacture the best Milling and Drilling Mandrels that are used for all kinds of finish milling and drilling applications.

- Ensures smooth finish
- Attains the best possible position error
- Increases productivity and tool life
- Reduces cost in every aspect
- No requirement of additional skill
- Low maintenance

**Milling Drilling Mandrels**

**Application Examples**

- Bore Clamping of Milling Cutter for Enhanced Cutter Life
- Regrinding of Cutters to a High Degree of Runout
Cylindrical Grinding Mandrels/Arbors

We manufacture the best Cylindrical Grinding Mandrels that are used between centers, spindle mounting etc.

- Ensures improved surface finish
- Attains an unmatched concentricity
- Increases productivity and tool life
- Reduces cost in every aspect
- No requirement of additional skill
- Low maintenance
Cylindrical Grinding Mandrels

Application Examples

Multiple Clamping of Parts to Achieve Concentricity & Uniformity in Size

Od Grinding of Eccentric Bush w.r.t. Bore to Achieve Exact Eccentricity
Gear Hobbing Mandrels/Arbors

We manufacture the best Gear Hobbing Mandrels/Arbors that are used between centers, spindle mounting etc.

Our Gear Hobbing Mandrel/Arbor

- Ensures smooth finish
- Attains high PCD error
- Increases productivity and tool life
- Reduces rejections to a minimum
- Reduces cost in every aspect
- No requirement of additional skill
- Low maintenance

**Gear Hobbing Mandrels**

Application Examples

- Chucking Fixture for Gear Hobbing, Multiple Clamping
- Chucking Fixture for Gear Shaping
Gear Shaving Mandrels/Arbors

We manufacture the best Gear Shaving Mandrels that are used between centers, spindle mounting etc.

Our Gear Shaving Mandrel

- Ensures smooth finish

No.80, 1st Floor, B.D.A. Commercial Complex, Indiranagar, Bangalore - 560 038, India
Tel : +91 - 80 - 25258885 Email : design@conceptarbors.net Web: www.conceptarbors.net
- Attains better PCD error
- Increases productivity and tool life
- Reduces rejections to a minimum
- Reduces cost in every aspect
- No requirement of additional skill
- Low maintenance

Gear Shaving Mandrels

Application Examples

Gear Shaving Fixture with Part & Cover Location

Gear Shaving Fixture with Part & Cover Location (Auto Clamp Type)
Gear Grinding Mandrels/Arbors

Our Gear Grinding Mandrels/Arbors are very special mandrels that can be used between centers, spindle mounting etc.

Our Gear Grinding Mandrel

- Ensures smooth finish
- Attains better PCD and profile error
- Increases wheel life coupled with increased productivity
- Reduces rejections to a minimum
- Reduces cost in every aspect
- No requirement of additional skill
- Low maintenance

Gear Grinding Mandrels
Application Examples

Gear Grinding Fixture Between Centers with OD Location

Gear Grinding Fixture Between Centers

Gear Grinding Fixture for Shaft Type of Part

Gear Grinding Fixture for Finishing Gear Teeth Concentric to PCD of Internal Splines

Gear Honing Mandrels/Arbors

Our Gear Honing Mandrels/Arbors are very special mandrels that can be used between centers, spindle mounting etc.

Our Gear Honing Mandrel

- Ensures smooth finish
- Attains better PCD and profile error
Increases wheel life coupled with increased productivity
Reduces rejections to a minimum
Reduces cost in every aspect
No requirement of additional skill
Low maintenance

Gear Honing Mandrels

Application Examples

Gear Honing Fixture Between Centers
Dynamic Balancing Mandrels/Arbors

We manufacture high quality dynamic balancing mandrels/arbors that can be used in both horizontal and vertical setups.

Our Dynamic Balancing Mandrel/Arbor

- Ensures smooth finish
- Attains unmatched balancing
- Part balance ensures overall product efficiency
- Increases productivity
- Reduces rejections to a minimum
- Reduces cost in every aspect
- No requirement of additional skill
- Low maintenance

Dynamic Balancing Mandrels
Application Examples

Balancing of Automobile Retarder Part

Precise Balancing of Aircraft Engine Part

Balancing of Compressor Impeller with Carbide Stem on One End

Balancing of Automobile Part

Fixture Location Mandrels/Arbors

We manufacture high quality Fixture Location Mandrels/Arbors that can be used in both horizontal and vertical setups.

Our Fixture Location Mandrel/Arbor
- Ensures smooth finish
- Attains unmatched balancing
- Part balance ensures overall product efficiency
- Increases productivity
- Reduces rejections to a minimum
- Reduces cost in every aspect
- No requirement of additional skill
- Low maintenance

**Fixture Location Mandrels**

**Application Examples**

- Locating Bore in a Fixture
- Locating on OD in a fixture
Inspection Mandrels/Arbors

The Inspection Mandrels/Arbors are used both in horizontal and vertical setups.

Our Inspection Mandrel/Arbor

- Ensures best location with no clearance
- Consistent repetitive accuracy
- Increases productivity
- Reduces rejections to a minimum
- Reduces cost in every aspect
- No requirement of additional skill
- Low maintenance

**Application Examples**
Concentricity Checking Fixture

Concentricity Checking of Gear PCD of Internal Gears

Inspection of Gears w.r.t. Major Diameter of Internal Splines

Inspection of Gears w.r.t. Gear

Checking the Exact Eccentricity of the Outside Diameter w.r.t. Bore
Contact Us

Concept Engineers

No.80, 1st Floor, B.D.A. Commercial Complex, Indiranagar, Bangalore, Karnataka - 560 038, India

Phone: +91 - 80 - 25258885
Mob: +91 09845017701
Fax: +91 - 80 - 25257650
Email: design@conceptarbors.net
Web: www.conceptarbors.net

Confidentiality & Communication

Concept Engineers maintains full confidentiality of all proprietary information released to it by its customers. All our employees have non-disclosure clauses in their employment contracts. We are ready to sign a non-disclosure agreement as a guarantee.

We use emails and phone for the daily communication on the project. All those involved in the project will be subscribed to the list and receive a copy of the correspondence. We will respond back to any of your queries during the project within 12 hrs time.

Conclusion

We encourage you to contact us to review the product details. We will assure you that we will be able to provide you with the best services.

END OF DOCUMENT