



Renuka Tools®

Redefining Cutting Technology

Presentation for taking right purchase decisions!



Renuka Tools® – About Us

Renuka Tools® (www.renukatools.in) manufactures standard and customized Indexable cutting tools for boring, drilling, milling, chamfering, turning, grooving & parting applications for VMCs, HMCs, CNC Turning Centers, SPMs and other conventional machines.

Apart from our standard product line, we also manufacture special tools & combination tools based on customer requirements to save time & cut costs.

We also manufacture standard & customized adapters & tool holding systems.

An ISO 9001:2015 certified company by TUV NORD with DAkkS Accreditation, Renuka Tools was founded in the year 2000 in Aurangabad with its vision to be the most preferred tooling solution provider ensuring highest quality, excellent service and customer satisfaction. Over the years, this vision has translated into a successful and trusted name in the industry for its high-quality standards.

Cutting Costs – Need of the hour!

In today's ultra-competitive world, it's very important to go for lean manufacturing and cost cutting.

But cost cutting of your manufacturing includes:

- **Reducing direct materials cost**
- **Reducing direct labor costs**
- **Reducing production overheads**

What are production overheads??

Production overheads – rent, insurance, electricity, consumable tools, packing materials, machine maintenance, and other costs incurred in the factory excluding direct labour and material costs.

Production Overheads

Here we want to highlight that two of the components that contribute to Production Overheads in a big way are:

- **Consumable tool costs**
- **Machine maintenance costs**

Consumable Tool Costs – For Indexable Tools

For all Indexable Tools, insert consumption depends on the following:

- **Insert Pocket Machining**
- **Insert Clamping Torque**
- **Insert Clamping Spares**
- **Precise Cutting Geometries**
- **Maintaining Precise Axial and Radial Run-outs**
- **Through Coolant Provision in the tools**

How can Renuka Tools® Help in reducing YOUR consumable tool costs?

To ensure optimum insert life, we at Renuka Tools® do the following:

- **Insert Pocketing done on 5-axis CNC Milling Machines.**
- **Proper design of the tool ensures proper insert clamping torque.**
- **Use the best quality spares for insert clamping.**
- **Precise Cutting Geometries are achieved on 5 axis CNC machines and inspected on Zoller Pre-setter.**
- **Maintain Precise Axial and Radial Run-outs by using special fixtures.**
- **Manufacture all tools with through coolant.**

Machine Maintenance Costs – Due to Indexable Tools

While using Indexable Tools, the following may increase your machine maintenance costs:

- **Un-balanced tools may lead to machine spindle damage leading to heavy maintenance cost of spindle replacement.**
- **Low quality integral taper tools, may lead to locking in spindle, attracting heavy maintenance costs.**
- **Poor design of tools, may lead to accidents causing damage to machine parts.**

How can Renuka Tools® Help in reducing YOUR machine maintenance costs?

To ensure low machine maintenance costs, we at Renuka Tools® do the following:

- **All tools are balanced on Haimer Dynamic Tool Balancing Machine within required tolerances.**
- **All tools are manufactured while maintaining highest quality of standards for all tapers.**
- **Proper design of tool and tool simulation in 3D CAD to ensure there is no tool failure and accidents.**

How to secure your capital investment in Indexable Tools – Ensuring Flexibility?

- **Technology keeps evolving, so will the spindle tapers of your machines, so why get stuck with integral tools pertaining to a specific spindle taper?**
- **Don't you want the flexibility to move a project from one machine to another without having to worry about the spindle taper & without having to purchase complete set of tooling again?**
- **Don't you wish that you could put to use the tools that are currently lying in your tool crib just as scrap?**

Introducing Modular Tools in MVS Connection – A Flexible & Economic Solution



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Modular Tools – Facts & Advantages

- **Very rigid and precise modular clamping solution for rough, semi-finish & finish boring applications.**
- **Gives you the flexibility to move the tooling from one spindle taper to another.**
- **Modular adaptors are available in all variety of spindle tapers.**
- **Very easy, 90 degree clamping, with cam mechanism (MVS Connection) to ensure precision, repeatability & consistency.**
- **Huge savings on your capital expenditure, with flexibility of machining on a variety of machines.**

Why Renuka Tools®?

What differentiates us from the competition?

- We use the best-in-class technology in our state-of-the-art manufacturing facility.
- We ensure best quality products adhering to global standards.
- We provide a QC Report along with our tools to certify the quality of the product, which is accepted world-wide.
- We ensure shortest lead times in manufacturing. Average lead time of 2 weeks guaranteed.
- All of the above is ensured at lowest price possible.

How do we achieve highest quality in manufacturing?

- ▶ **State-of-the-art manufacturing facility at Aurangabad, Maharashtra, India.**
- ▶ **Multi-axis CNC machines help us achieve the accuracy and precision in machining.**
- ▶ **Stringent in-process and final quality inspection.**
- ▶ **Highly skilled and experienced design team.**
- ▶ **Highly skilled and experienced workforce.**
- ▶ **Dedication and commitment towards work through continual improvement.**

How do we add more value to the product?

- ▶ **As a company policy, we provide very high quality (branded) spares along with all our tools.**
- ▶ **Final Inspection is done on a Zoller Pre-setter. The Zoller report is provided along with the tools.**
- ▶ **Tool Balancing is done on a Haimer Balancing Machine. The Haimer report is provided along with the tools.**

Cutting Tools - Products and Services

We offer a comprehensive range of cutting tool solutions across multiple applications

Boring Tools

- UPA Cartridges & MB Units.
- Finish, Semi-Finish & Rough Boring Bars
- Adjustable Boring Bars
- Anti-Vibration Boring Bars.
- Cartridge type Boring Bars.

Drilling Tools

- Indexable U-drills / Twist Drills with standard Drilling Inserts of major brands.
- Available with Chamfer option
- L/D = 2/3/4
- Trepanning Tools

Milling Tools

- Face & Shoulder Milling Cutters
- Ball Nose Milling Cutters
- 45° Approach Angle Milling Cutter
- Shoulder Milling Cutters
- Spot Face Cutters
- End Mill Cutters
- Modular Milling Cutters

Turning Tools

- OD Turning Tool Holder
- ID Turning Tool Holder
- Grooving and Parting tools

Chamfering Tools

- Chamfer Tools for 15°, 30°, 45° & 60° chamfers
- Available in Fixed Pocket, Cartridge type and adjustable type.

Customized Tools

- Customized options in all the above categories.
- Combination Boring Bars & Special Tools
- Large Diameter Boring Bars & Milling Cutters

Latest Launch – UPA Cartridges

Facts & Advantages:

- Ultra – Precision, Adjustable finish boring cartridge with high accuracy & repeatability.
- Least count of 5 microns (on diameter) on a linear scale.
- Radial Adjustment range of 0.6mm on diameter
- Axial Adjustment range of 1mm for maintaining precise step lengths in combination boring tools.
- Self-clamping / self-locking cartridge with Zero Backlash
- Minimum setting time & downtime.
- Available in 28 variants.
- Minimum bore diameter 28mm.
- Directly inter-changeable with all standard finish boring cartridges or UFP cartridges or equivalent.



Our Flagship Product – Micro Bore Units



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Micro Bore Units – Facts & Advantages

- Highest accuracy & repeatability.
- Least count of 1 micron (radially).
- Self-clamping / self-locking units.
- Zero Backlash.
- Minimum setting time & downtime.
- Available in 80 variants.
- Minimum bore diameter 20mm.
- Special MBU available for undercut applications.
- Customization possible.
- Directly inter-changeable with T-Max U Fine Boring Units (R/L148C).



Recently Launched – Fine Boring Units



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Fine Boring Units – Facts & Advantages

- Highest accuracy & repeatability.
- Least count of 1 micron (radially).
- Self-clamping / self-locking units.
- Zero Backlash.
- Minimum setting time & downtime.
- Available in 88 variants.
- Minimum bore diameter 19mm.
- Special FBU available for undercut applications.
- Customization possible.
- Directly inter-changeable with FA & FV Boring Units or equivalent.



Boring Tools – Finish Boring Application

Finish Boring Bars with Micro Bore Units



Eccentric Fine Boring Tools



BCA Finish Boring Bars



Boring Kit



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Boring Tools – Semi-Finish & Rough Boring Application

Semi-Finish Boring Bars - ISO Cartridge Type



Semi-Finish Boring Bars - Special Cartridge Type



Duo Boring Bars – Adjustable diameter Rough Boring Bars



Fixed Pocket type Rough Boring Bars – Core Drills



Boring Cartridges

Micro Bore Units / Fine Boring Units



UPA Cartridges



Finish Boring Cartridges



Special Cartridges



ISO Cartridges



Special Boring Bars

Combination Boring Bars



Anti-Vibration Boring Bars



Milling Cutters

Face Milling Cutters



Modular Milling Cutters



Shoulder Milling Cutters



Full / Half - Side & Face Milling Cutters



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Milling Cutters

T - Slot Cutters



45° Approach Angle Milling Cutters



End Mill Cutters



Thread Mill Cutters



Angle Milling Cutters / Dovetail Milling Cutters / Taper Milling Cutters



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Facing Cutters

Spot Face Cutters



Back Boring Bars / Back Spot Facing Tools



Centre Spot Face Cutters



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Drilling Tools

U - Drills



Trepanning Tools



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Chamfer Tools

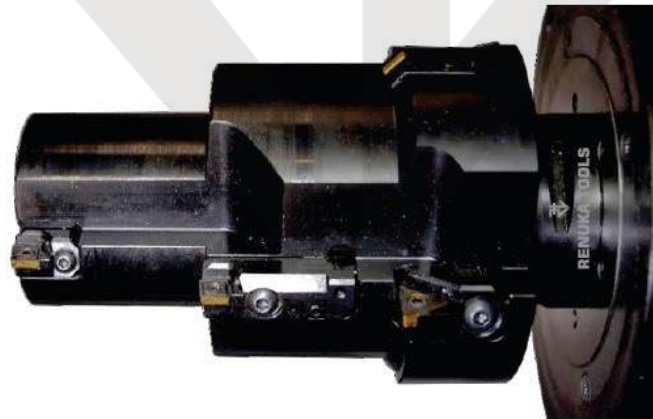
Fixed Pocket Type Chamfer Tools



Adjustable Diameter Chamfer Tools – Duo Chamfering Tools



Cartridge Type Chamfer Tools



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Special Adaptors

Special Adaptors



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CNC Turning Tools – For various Turning Applications

ID Boring Tools



OD Turning Tools



Face Grooving Tools



ID Grooving Tools



CNC Turning Tools – For various Turning Applications

Grooving & Parting Tools



Threading Tools



Combination Turning Tools



Anti-Vibration Turning Tools



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Here's to you, and our future together!



**Anand Mulay, Proprietor,
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**We wish to be
your most preferred vendor /
supplier for 3 reasons:**

1. We do not compromise on quality.
2. We are the best at what we do.
3. We keep learning and improvising everyday.

We need a promise from YOU!!!

- ✓ The way you have invested in best of machines, ensure to invest in high quality cutting tools as well.
- ✓ Treat all your tooling investments as capital investments as our tools are not consumables.
- ✓ Let Renuka Tools® be your preferred cutting tools supplier for indexable cutting tools.

Key Customers

- ▶ **Atul Auto Ltd., Rajkot**
- ▶ **Kirloskar Oil Engines Limited, Kolhapur**
- ▶ **Kirloskar Oil Engines Limited, Pune**
- ▶ **Zanvar Group, Kolhapur**
- ▶ **Yamazaki Mazak India Pvt. Ltd., Pune**
- ▶ **Varroc Group, Aurangabad**
- ▶ **Yash Industries, Pune**
- ▶ **Kohler Power India Pvt. Ltd., Aurangabad**
- ▶ **Linamar India Pvt. Ltd., Dewas**
- ▶ **Himalayan Auto Era (I) Pvt. Ltd., Rudrapur**
- ▶ **Force Motors, Pune / Pithampur**
- ▶ **Sound Castings Pvt. Ltd., Kolhapur**
- ▶ **Eagle Burgmann India Pvt. Ltd., Pune**

- ▶ **Ordnance Factory, Ambajhari / Bhusaval / Medak / Chanda**
- ▶ **Heavy Vehicles Factory, Avadi**
- ▶ **South East Central Railway, Raipur**
- ▶ **Hindustan Machine Tools, Pinjore**
- ▶ **Bharat Heavy Electricals Limited, Rudrapur**
- ▶ **Bharat Loco Works, Varanasi**
- ▶ **Indo-German Tool Room, Aurangabad**
- ▶ **Global CNC Machines Ltd., Rajkot**
- ▶ **Kiswok Industries Pvt. Ltd., Howrah**
- ▶ **CIE Automotive, Aurangabad**
- ▶ **Walton Hi-tech Industry Ltd., Bangladesh**
- ▶ **And many more...**

Renuka Tools® – Contact Us

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