



Tool Guide

SWISS  QUALITY

Innovation Is Our Tool

About URMA



Since 1962, URMA AG has been developing and manufacturing precision tools for highly accurate drilling and milling applications. Their solutions are used worldwide across a wide range of industries and represent the highest standards of quality and reliability.

Application Examples



Part: Axial piston pump (steel)
Tool: RX medium



Part: Engine block (aluminum)
Tool: MX diamond



Part: Hydraulic housing (gray cast iron)
Tool: MX boronite



Part: Valve block (ductile cast iron)
Tool: RH reamhone

Reaming



RX reaming – an innovative reaming concept for maximum productivity through a unique design.

Key Facts

- Modular reaming tool covering diameters from 7.6 mm to 200.2 mm
- Unique RX connection with short taper for fast and easy insert changes
- Application-specific inserts with short delivery times, common H7 diameters available from stock
- Latest cutting materials and coatings for maximum performance and tool life
- Reduced tooling costs and increased productivity thanks to the innovative reaming system
- Solid carbide reamers and RM Vario monoblock reaming tools covering diameters from 5.8 mm to 33.1 mm



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Milling



MX milling – the latest generation of face milling combines precision and speed.

Key Facts

- Standard cutters available in diameters of 50, 63, 80, 100, and 125 mm
- Maximum rigidity with solid carbide inserts tipped with PCD and CBN
- Significant cost savings thanks to high-performance cutting data
- Highest accuracy and easiest handling thanks to proven RX technology
- Easy insert change without additional setup effort
- Compatible with any standard cutter head adapter



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Honing



URMA honing – honing on turning and milling machines for highly precise holes in a single setup.

Key Facts

- Honing on turning and milling machines from diameters of 5 mm
- Using emulsion or oil, without modifying the machine
- Maximum precision in hole manufacturing
- Integration of the honing process into the machining of a component
- Achieves highly accurate form and positional tolerances as well as functional surfaces (cross-hatch pattern)
- Innovative tooling systems increase process reliability and contribute to improved efficiency



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Boring and Pre-Machining



Modular and versatile – the proven digital and analog boring system for precise hole machining.

Key Facts

- Modular boring system covering diameters from 0.2 mm to 2,400 mm
- Three different connection types for maximum flexibility and optimal tool use
- Finishing tools with digital measurement, using a single display unit for the entire DigiTec family
- All URMA tools come standard with ISO insert holders and internal coolant supply
- Overhang lengths up to 12×D with LBS and VAS systems
- Maximum precision and quality with long service life



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Special tools



URMA develops custom special tools for maximum precision and efficiency. The experienced engineering team provides expertise in machining, drilling, and all types of tools, delivering optimal solutions tailored to your specific needs.

Drilling

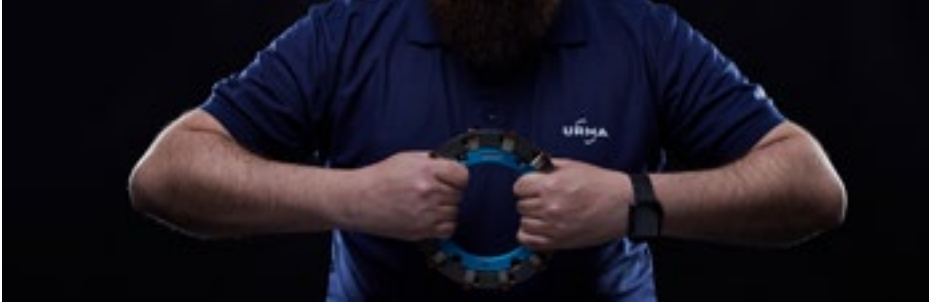


Solid carbide drills and solid carbide step drills in 3×D, 5×D, and 7×D offer maximum precision and performance thanks to optimized geometry. They enable highly productive drilling with high feed rates, are perfectly matched to the material and machine, and are ideal for mass production as well as pre-machining for the RX reaming system.



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Tips and Tricks on YouTube



In the video series "Gianni's Tooling Time," Gianluca Bara, Director of Sales Tools, shares practical expertise ranging from technical knowledge and product presentations to real-world applications in everyday manufacturing.

S.M.A.G. App – Digital tools right in your pocket



The URMA S.M.A.G. app supports you in tool handling with a cutting data calculator, product information, formulas, tables, and selection of the right RX reaming insert. Download it now from the App Store!

If you have any questions, we are happy to assist you.

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