

GÜHRING

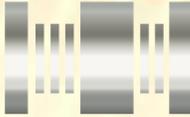
GROOVING SYSTEMS

**GÜHRING
IS GROOVING**



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 **GROOVING
SYSTEMS**

FROM DRILL PIONEER TO **COMPLETE SUPPLIER**

Gühring is one of the **worldwide leading manufacturers** of precision tools for metal machining. With **more than 8,000 employees worldwide, of which over 3,500 are in Germany**, and more than **70 production locations in 48 countries**, the company develops, manufactures and distributes innovative cutting tools.

The latest product line - launched in 2016 - includes **perfectly coordinated tool systems** for bo-

ring out, internal grooving, axial grooving bores, external grooving, broaching and grooving. The product range now includes approximately **8,000 individual items**.

Whether required for a small batch or for continuous production, **customer-specific solutions** are one of our strengths. The **high degree of manufacturing depth** - ranging from carbide production, in-house coating technology and in-house development through to our highly competent product specialists - makes our tools incredibly

adept at **mastering even the most demanding machining tasks**. By continuously adding new products to the portfolio, Gühring is well and truly meeting the expectations of a complete supplier.



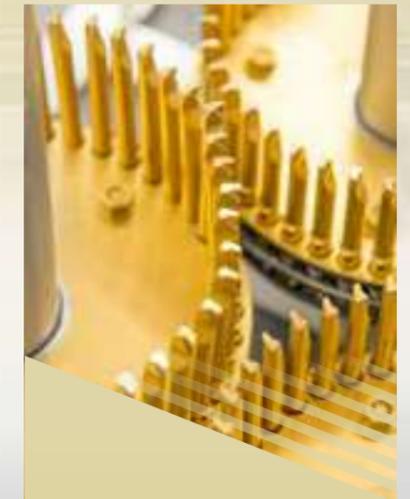
GÜHRING'S OWN CARBIDE PRODUCTION

- \ Blanks – indexable inserts and cutting inserts
- \ Gühring's own carbide grades



GRINDING INDEXABLE INSERTS AND CUTTING INSERTS

- \ Complete production on Gühring-built grinding machines



COATING INDEXABLE INSERTS AND CUTTING INSERTS

- \ In-house coating on Gühring-built coating systems
- \ Latest coating technology and coating types

COMPREHENSIVE
PERFECT
MARKET-DRIVEN

HIGH PRODUCTION DEPTH
MADE IN GERMANY
SPECIALISED

THE CURRENT PORTFOLIO INCLUDES SOLUTIONS FOR VARIOUS **MACHINING OPERATIONS**

Here are just some of the key points you should know about our tool range:

System 104: \ Dmin 0,7 mm

System 106: \ up to five different corner radii R for boring out

\ up to nine different neck lengths La for boring out

Systems 104 | 106 | 108:

\ wiper geometry available as standard tool for top surfaces

System 110: \ standard holders and prefabricated semi-finished products with a shank diameter of 10 mm for a wide range of special solutions

System 305: \ inserts available in widths of up to 12 mm for special profiles

\ screw counterbores on both sides for installation in left-and right-hand holders

THREADING

INTERNAL GROOVING

AXIAL GROOVING BORES



SPECIAL TOOLS

- \ customer-specific
- \ economic
- \ large range of blanks ensure the best possible delivery times

What the Gühring system designations mean:

SYSTEM 104

- └ shank diameter [mm]
- └ single-edged tool system

SYSTEM 305

- └ max. grooving depth [mm]
- └ number of cutting edges

You can find out more about the market- and user-friendly properties of our tools in our main catalogue.

DRILLING

BROACHING, SQUARE, HEXAGON, TORX

NUMEROUS **UNIQUE FEATURES** FOR A USER-ORIENTED TOOL RANGE

SYSTEM 104 | 106 | 108 | 110

- \ only supplier on the market with such an extensive range of lengths and corner radii for micro-precision tools
- \ highly precise positioning; cutting edge facing up and facing down possible at same length position

- \ range of holders with different clamping screw positions for the best possible access

ONLY AVAILABLE FROM
GUHRING



SYSTEM 305

- \ complete holder range available from stock with or without internal coolant supply
- \ grooving insert in a neutral design for installation in right- and left-hand holders

- \ standard holder range for wide special-profile inserts up to 12 mm
- \ patented holder with adjustable internal coolant supply

ONLY AVAILABLE FROM
GUHRING



COMPREHENSIVE **OVERALL TOOL RANGE** FOR PROCESSING PRECISION PARTS



ACCURACY
COMPETENT
USER-ORIENTED