



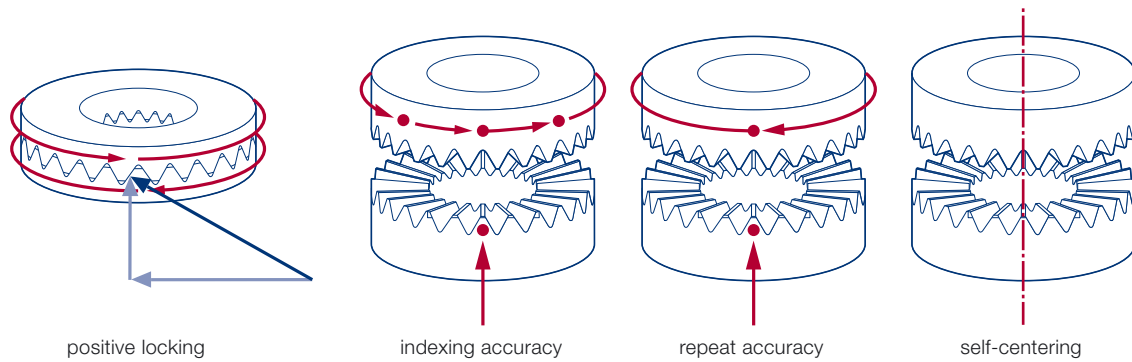
The original Voith Hirth Serration

Remarkable precision and maximum torque capacity are assured when opting for this form-locking, self-centering and easily detachable connection component. Hirth serrations connect shafts, disks, rotors, wheels and cranks and can be manufactured in metal or plastic. Also, torque of up to 15 000 kNm can be transmitted wear-free, even with a small diameter, and a positional accuracy of 1 to 2 angle seconds is achieved.

Key benefits

- + Precision accuracy
 - + Repeat accuracy $\leq 0.001\text{mm}$
 - + Self-centering
 - + Maximum torque capacity
 - + Wear-free torque transfer
 - + Short lead times
 - + Design and calculation support
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Features



Tailor-made customer component serration

Manufacturing the Voith Hirth serration onto your component, up to a diameter of 1 600 mm, in just a few days. Additionally, we offer key engineering services during the design of your components, consultation with calculations and further optimizing recommendations. Lastly, should you require quality assurances, we are here for you, too.

Hirth rings

Whether you require a standard Hirth ring set, customer-specific Hirth ring set or a tailor-made Hirth part, we manufacture all of these. Always in stock, the standard preferred sizes are available with diameters ranging from 50 to 900 mm and with gear teeth ranging from 24 to 720. Should you need a specific diameter, we can customize Hirth parts up to a diameter of 1 600 mm, with a maximum of 720 gear teeth.

Our product portfolio includes:

- Machining of teeth on customer components
- Manufacture of customer-specific Hirth parts
- Supply of standard Hirth rings
- Engineering services in calculation, design and quality control

Potential applications

- **Shafts, wheels and rotors in gear units, pumps, fans, compressors, turbines and rolling mills**
- **Rotary indexing tables, turret heads and disk turrets in machine tools**
- **Connections in gas and steam turbines**
- **Flanged connections on shafts**
- **Connections in metrology, robot technology and medical technology**
- **Connections in aerospace technology**
- **Crank or joint shafts**
- **Substitution of complex, single-piece forged parts**

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