

Machining Technology

# ID Grooving and Turning



Insertable form tool systems for radial and axial ID grooving and turning applications.

**Schwannog**

# ID Grooving with Schwanog: Insertable form tool systems for radial and axial ID grooving and turning applications!

The continuous optimization of the manufacturing processes with the highest quality is crucial for manufacturers of precision parts for long-term market success.

Therefore, Schwanog offers the perfect, highly economic solution with its ID grooving and turning systems for radial and axial applications, which are individually manufactured according to customer drawing / application. The WSI systems even makes ID grooving and ID turning or even both manufacturing steps combined, possible using a single operation.

Schwanog tooling systems always consist of a tool holder and an insertable tool into which the customer-specific contour is ground.

As a result, Schwanog's ID grooving tools often achieve a part cost reduction of more than 40 % in comparison to the classic single-point turning process. Since, only the insertable tool must be changed in case of wear, the follow-up costs remain gratifyingly low.

## Economic advantages:

- Part cost reduction by up to 40 %
- Significant time savings during tool changeover
- Due to highest repeatability the separate setting of the tool during tool changeover is eliminated

## WSI-System



## PWP-System

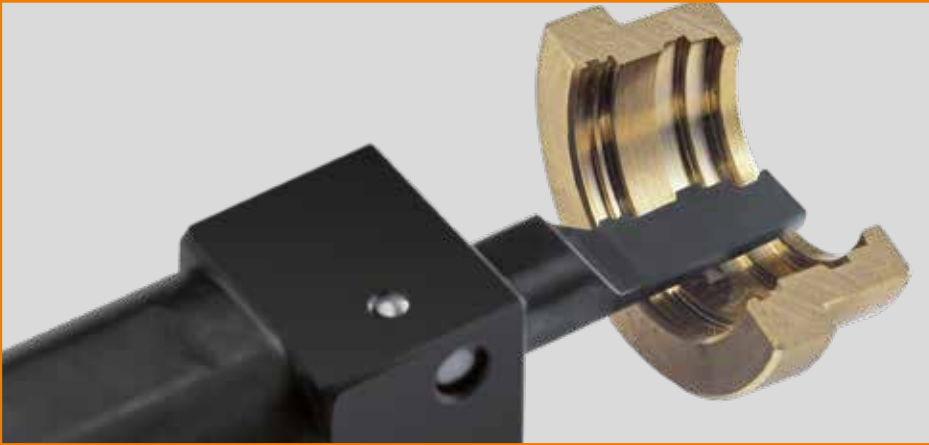


## G-System



## System overview

### ID Grooving and turning with WSI-System



For  $\varnothing > 2$  mm:

- ID grooving and turning or a combination of both
- Tool holders with internal coolant supply
- Variable length adjustment of the insertable form tool in the Z-axis

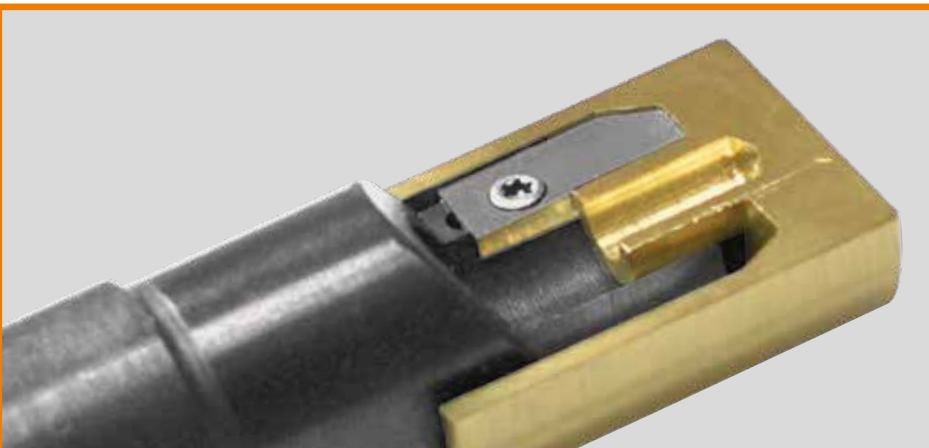
### Radial and axial grooving with PWP-System



For  $\varnothing > 15$  mm:

- Radial and axial ID grooving
- For use on all type of lathes
- Tool holders with internal coolant supply, optional

### Axial face grooving with G-System



For cutting widths from 4–8 mm at variable turning diameters:

- Cutting widths 4–8 mm at variable turning diameters
- For use on all type of lathes
- Tool holders with internal coolant supply, optional

3D animations for all tooling systems / applications can be found on our website [www.schwanog.com](http://www.schwanog.com). Use the potential for reducing your part costs and increase your profitability. Our technical sales representatives are looking forward to your call or your email along with your part drawing.

# Insertable tooling systems



OD Grooving



OD Grooving for rotary transfer machines



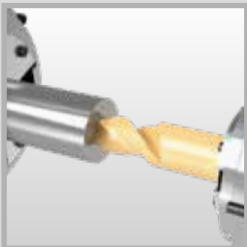
ID Grooving



ID Grooving and turning with WSI



Form drilling



Solid Carbide drills



Shave Tools



Skiving Tools



Polygon turning



Broaching of Serrations



OD Whirling



ID Whirling Tools (Thread Mills)



Parts selector



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