

Machining Technology

ID Grooving and Turning



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



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

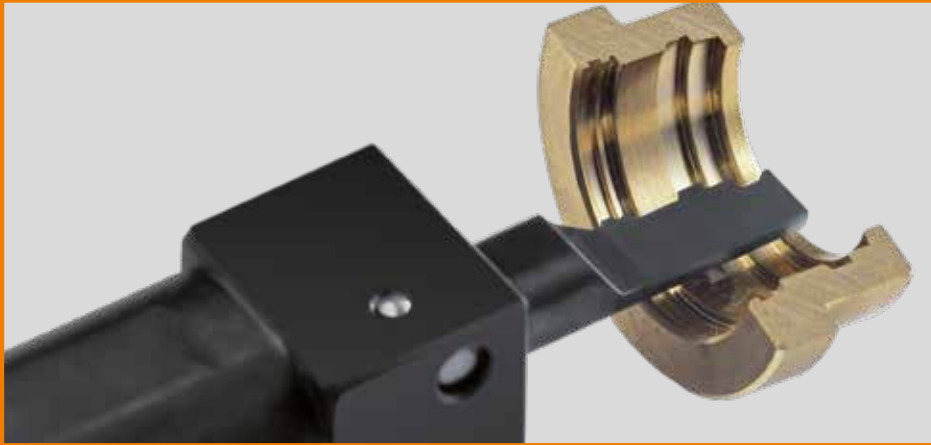


G-System



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

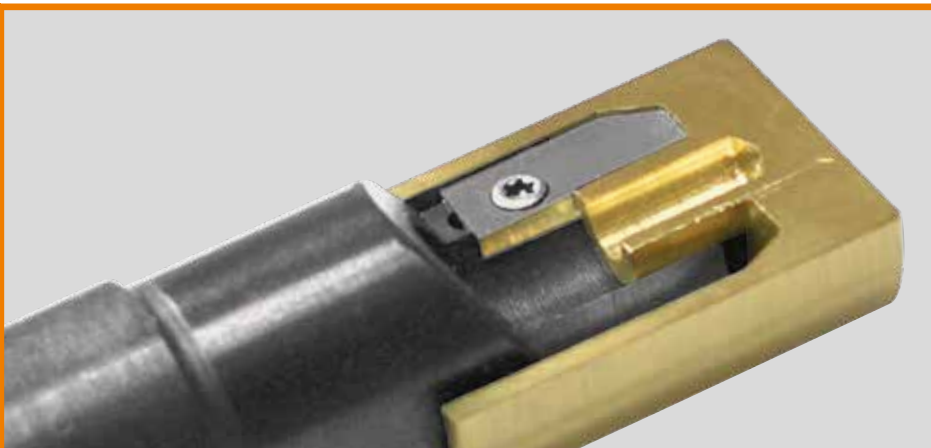
Radial and axial grooving with PWP-System



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. 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



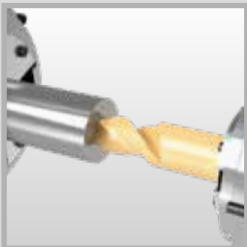
ID Grooving



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



Schwanog · Siegfried Güntert GmbH

Niedereschacher Str. 36 · D-78052 VS-Oberschach
Tel. +49 (0) 77 21 / 94 89-0 · Fax +49 (0) 77 21 / 94 89-99
www.schwanog.com · info@schwanog.com



Schwanog LLC

1301 Bowes Road, Suite A · Elgin, IL 60123
Phone: 847-289-1055 · Fax: 847-289-1056
www.schwanog.com · info.usa@schwanog.com



Schwanog France

ZAC des Léchères · 65 Clos de l'Ouche · F-74460 Marnaz
Tel. +33 450 18 65 16 · Fax +33 450 18 47 75
www.schwanog.com · info.france@schwanog.com



Schwanog Indexable Form Tools (Kunshan) Co. Ltd

German Industry Park II · #329 Jujing Road
215321 Kunshan, Jiangsu Province
Phone: 0512 8788 0075
www.schwanog.com · info.china@schwanog.com



Schwanog · Siegfried Güntert GmbH

CZ-68201 Vyškov
Tel./Fax: +420 517 351 740 · Mobil: +420 739 257 060
www.schwanog.com · ludvik.sochor@schwanog.com



Schwanog · Siegfried Güntert GmbH

PL-05-410 Józefów
Tel: +48 606 177 025 · Fax: +48 22 610 07 45
www.schwanog.com · lukasz.kucinski@schwanog.com



Schwanog · Siegfried Güntert GmbH

SE-33376 Reftele
Phone +46 734 472 100
www.schwanog.com · jonas.lund@schwanog.com



UBR SRL

Viale Italia 95 · 25064 Gussago (Brescia)
Phone +39 030 2520842 · Fax +39 030 2521481
www.ubr.it · ubr@ubr.it