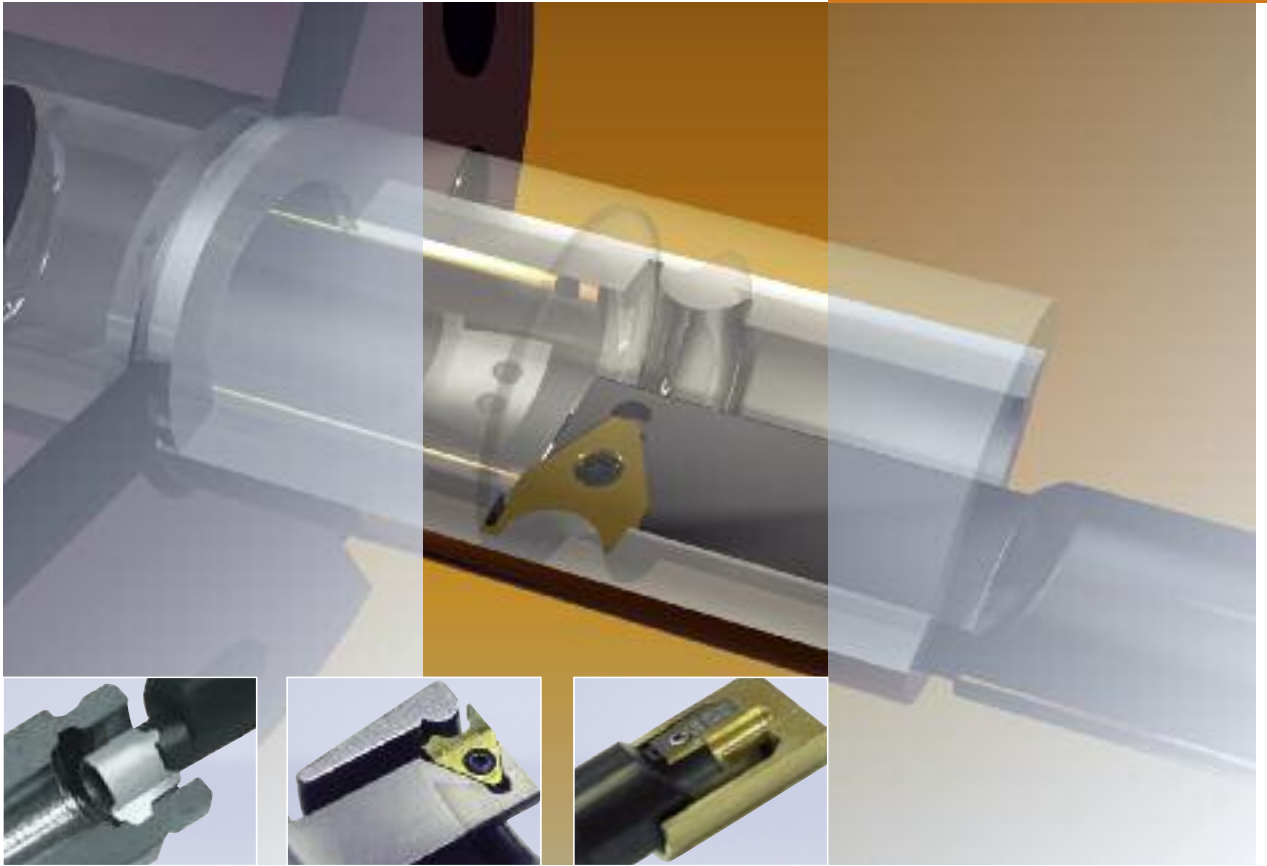


Project Report



WPI-System

PWP-System

G-System

ID Plunging

Plunge cutting vs. single-point turning:

Schwanog unlocks new potential for cost reductions!

Plunge cutting vs. single-point turning is the solution for noticeable lowering production cost on both, OD and ID applications.

Especially in the automotive and medical fields, as well as other broad areas, Schwanog-Technology frequently unlocks the key cost advantage to uphold profits. Instead of tracing the contours using the time-consuming single-pointing process, the geometries are achieved with one plunge, resulting in superior surface finishes and a productivity increase by up to 80%, while lowering unit costs by up to 40%. Internal plunge cutting is accomplished using three systems, depending on the required profile depth and application:

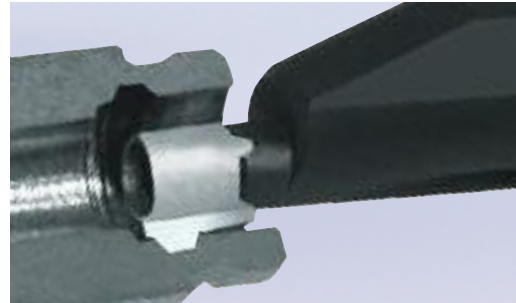
- WPI-System
- PWP-System
- G-System

Material:

Schwanog insertable inserts are made from carbide for all systems. The base holders are available in steel and in heavy metal for greater rigidity and optimum vibration-dampening. The fastest path to lowering costs is making direct contact with Schwanog.

Application:

In addition to the vast economic benefit there is another big application advantage to point out. Due to the Schwanog-System-Technology, contours are achieved, which cannot be manufactured at all while single-pointing. This represents another, significant advantage for the automotive and medical industries, as precision parts become increasingly more complex and delicate.



WPI-System: Radial plunging

The new WPI-System facilitates radial ID plunging for diameter ranges of \varnothing 8 - 15 mm.



PWP-System: Radial and axial plunging

The PWP-System is designed for radial and axial ID plunging of diameter ranges of \varnothing 15 - 33mm.



G-System: Axial face plunging

The G-System is designed for plunging widths of 4 - 8 mm with variable turning diameters.

Benefits:

- **Significant reduction of production costs**
- **Up to 80% increase in productivity**
- **Up to 40% reduction in unit costs**

Machining process



Axial feeding



Plunging



Start of plunging



Retraction in X and Z direction

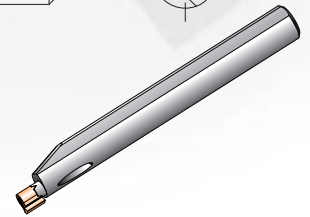
WPI-System: $\varnothing 8 - 15$ mm

Holder available in left and right-hand version

Right-hand version is shown

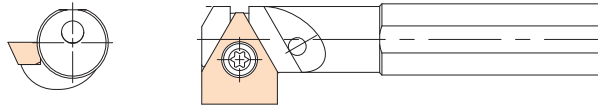


For dimensions, see section 3, ID Plunging in latest catalog.

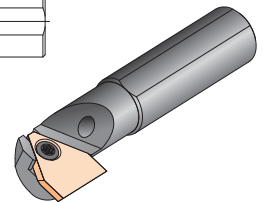


PWP-System: $\varnothing 15 - 33$ mm

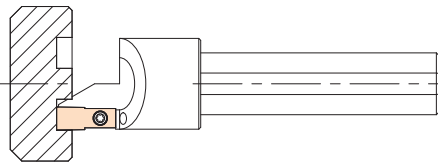
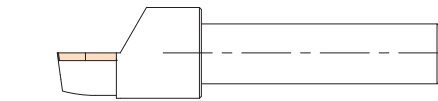
Right-hand version is shown



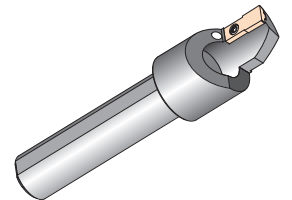
For dimensions, see section 3, ID Plunging in latest catalog.



G-System:



For dimensions, see section 3, ID Plunging in latest catalog.



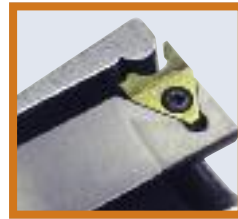
You can find the 3D application film on the WPI system at www.schwanog.com

Take advantage of the opportunity to lower your production costs. **And call us today!**

ID Plunging is one of eight application areas for which Schwanog offers first class, highly efficient product solutions.



OD plunging



ID plunging



Thread whirling



Polygon turning



Rotary transfer machines



Shave tools



Serration
(Broaching)



Form drilling



Selector system

www.schwanog.com



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