

INDUSTRY NEWS

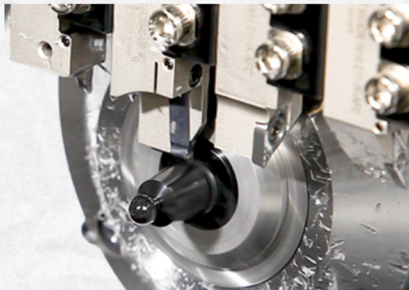
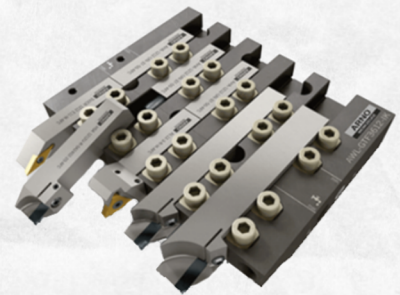
ARNO
WERKZEUGE

AFC Gang Plates Fast Change Tooling System

Simple, Quick Functionality

This coolant-through tooling system replacement for the gang plate on a Swiss-type machine can save hours of spindle downtime per day as well as increase tool life and enhance chip control.

Arno's Fast Change (AFC) tooling system consists of a gang plate that holds split-shank, coolant-through turning tools, parting tools and grooving tools. Designed like a manifold, the coolant is rerouted through the gang plate to the tools. The UN-style slot in the fixed stop picks up the coolant and runs it through the pipette to the front end where the coolant goes directly to the cutting edge. The AFC system can supply coolant to one port that supports all the tooling positions, or it can supply two ports and divide the tooling positions with the needle valve.



- The tooling system only needs to be plumbed once, after that, a high-pressure coolant line should not need to be touched again.
- The high-pressure lines are moved behind the machine guards, creating a clean machining environment.
- Low-profile clamps do not collect as many chips compared with a typical clamping system.
- When replacing a slit-shank tool, simply loosen two clamps to remove cutting head and replace it.
- Arno reports it takes about 17 seconds to change a tool compared to the typical 7-10 minutes.
- Retouch is not necessary because the tool will repeat plus or minus a thousandth of the previous tool position.
- No need to factor in time to readjust coolant lines due to the true coolant-through system.
- No need to clear chips due to those surfaces have mostly been eliminated with the smooth AFC design.

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