



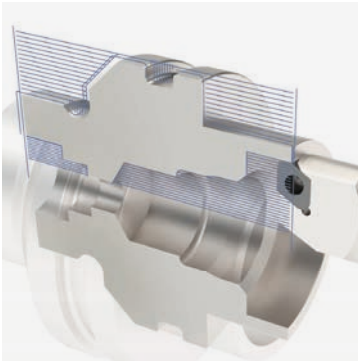
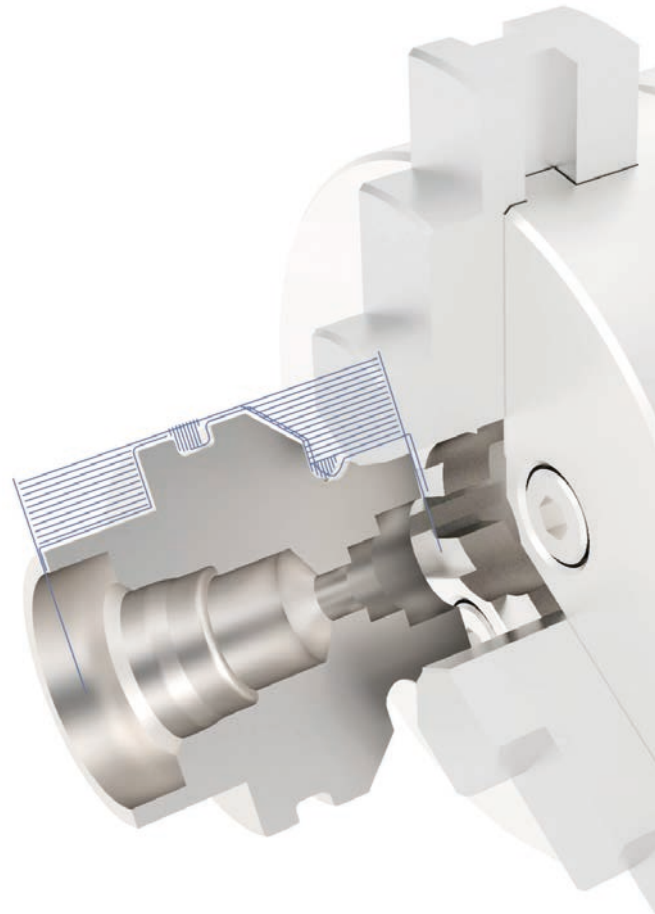
**ModuleWorks**

Get There Faster.

# Turning Component

*The ModuleWorks Turning Component provides powerful, efficient, easy-to-use toolpaths for lathes or turn-mill machines. It offers a comprehensive range of toolpaths including facing, roughing, profiling, grooving, cutoff and advanced adaptive roughing and grooving.*

*Support for parametric and custom toolholders and inserts. The ModuleWorks Turning Component can be combined with 3-Axis, rotary and 5-axis modules to program any complex operations.*



External and Internal Roughing

## Key Benefits

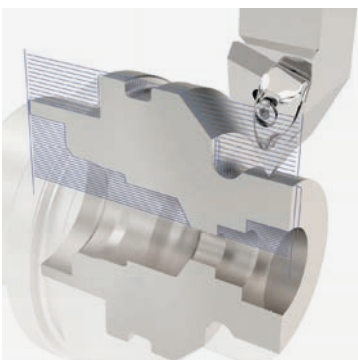
- Easy to use
- Reduced time to market
- Cost-effective implementation
- Broad range of functionality



External and Internal Profile

## General Features

- Roughing and finishing operations
- External and internal machining
- Parametric and custom tool support
- Automated holder and insert gouge checking
- Input: DXF-style boundary data
- Output: CL-style toolpath



Traditional Turning Toolpaths

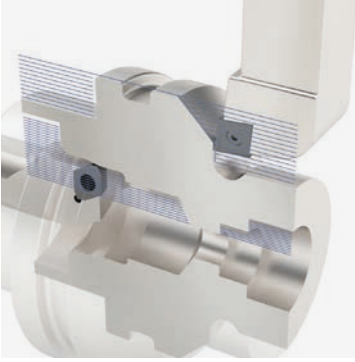
## Traditional Turning Toolpaths

- Facing
- Roughing
- Profiling
- Grooving
- Cutoff

## Advanced Turning Toolpaths

- Adaptive roughing and grooving
- Additional cycles soon to be launched:
  - Radial turning
  - B-axis turning
  - Face and ID grooving

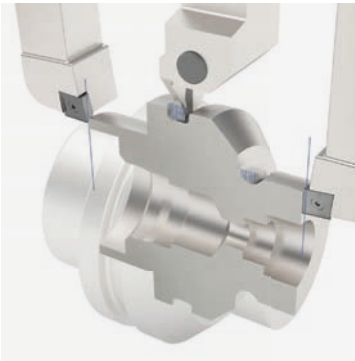
## Fact Sheet: Turning Component



External and Internal Roughing with Cusp Removal

### Roughing and Profile Turning

- Efficient area clearance
- Straight and radial pattern
- OD and ID turning
- Both holder and insert are considered
- Removal of remaining cusps



Facing and Grooving Toolpaths

### Facing

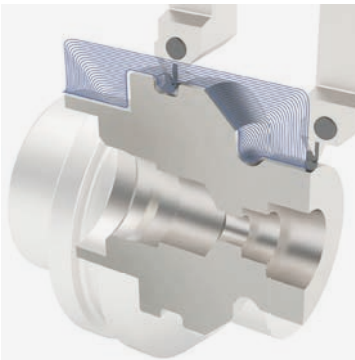
- Multiple cuts
- Customizable cut length

### Grooving

- Arbitrary shapes of grooves
- Cutting depth control
- Additional safety retracts

### Cut-off

- Cutting-off operation in multiple steps
- Customizable cut length



Adaptive Roughing Turning

### Adaptive Roughing and Groove Turning

- Consistent cutting conditions
- Higher feed rates
- Longer tool and machine life
- Reduced machining time

For information on other CAD/CAM components, including 3-axis and 5-axis toolpaths, visit:

[www.moduleworks.com](http://www.moduleworks.com)



**ModuleWorks**

ModuleWorks GmbH  
Aachen, Germany  
Tel: +49 241 99 000 40  
info@moduleworks.com  
www.moduleworks.com

ModuleWorks Japan  
Fujisawa, Japan  
Tel: +81 466 54 9144  
hashimoto.h@moduleworks.com  
www.moduleworks.com



Sign up for our Newsletter at:  
[www.moduleworks.com](http://www.moduleworks.com)