STÄHLI
FEELING FOR FINISHING

3-Wheel Double-Sided Flat Honing and Fine Grinding

Industry-Leading Precision – High Production – Dependable – Versatile – User-Friendly Design



3-Wheel Double-Sided Flat Honing and Fine Grinding

FH3-505/805





Technological Advantages:

- Ultra-quick load and unload times enabled by the 3-wheel design
- Ready for full automation integration
- Simultaneous loading/unloading of workpieces during machining operations
- Engineered for peak production output
- Cooling system for optimal wheel temperature control
- High precision in-process measuring system
- The mineral cast structure offers outstanding thermal and mechanical stability
- Integrated safety controls
- Remote maintenance/online support for convenient troubleshooting
- Quick changeover intervals for faster production

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For high-volume production that demands automation, a reliable and high-performance machine is essential. Our FH3 Series is built for continuous 24/7 production. The Stahli FH3-505 and FH3-805 models are specifically engineered to meet these rigorous production demands.









Technical Data

		FH3-505	FH3-805
Working Wheel Diameter, External		534 mm	860 mm
Carrier Reference-Ø		180 mm (6)	285 mm(6) / 330 mm (5)
Sizing Probe Precision		0.1 µm	0.1 µm
Optimal Work Piece Thickness		0.5 - 60.0 mm	0.5 - 80.0 mm
Drives	Upper Spindle	9.5 kW	21 kW
	Lower Spindle	9.5 kW	21 kW
	Center Drive	2.6 kW	6.7 kW
Speeds, Cont. Variable	Working Wheels	0-400 min^{-1}	0-400 min^{-1}
	Center Drive	0-200 min^{-1}	0-200 min^{-1}
Applied Force Range		0-1350 daN	0-2400 daN
Pressure Preset / Ramps		At Choice	At Choice
Types of Workload		Electrical Cylinder	Hydraulic Cylinder
Electrical Requirement		3x380-480 Volt, 50/60 Hz	3x380-480 Volt, 50/60 Hz
Machine Color Standard		Pearl White RAL 1013 Vermillion RAL 2002	Pearl White RAL 1013 Vermillion RAL 2002
Weight		6000 kg	11000 kg
Dimensions		1700x3550x2300 mm	2150x4225x2685 mm



Additional Features:

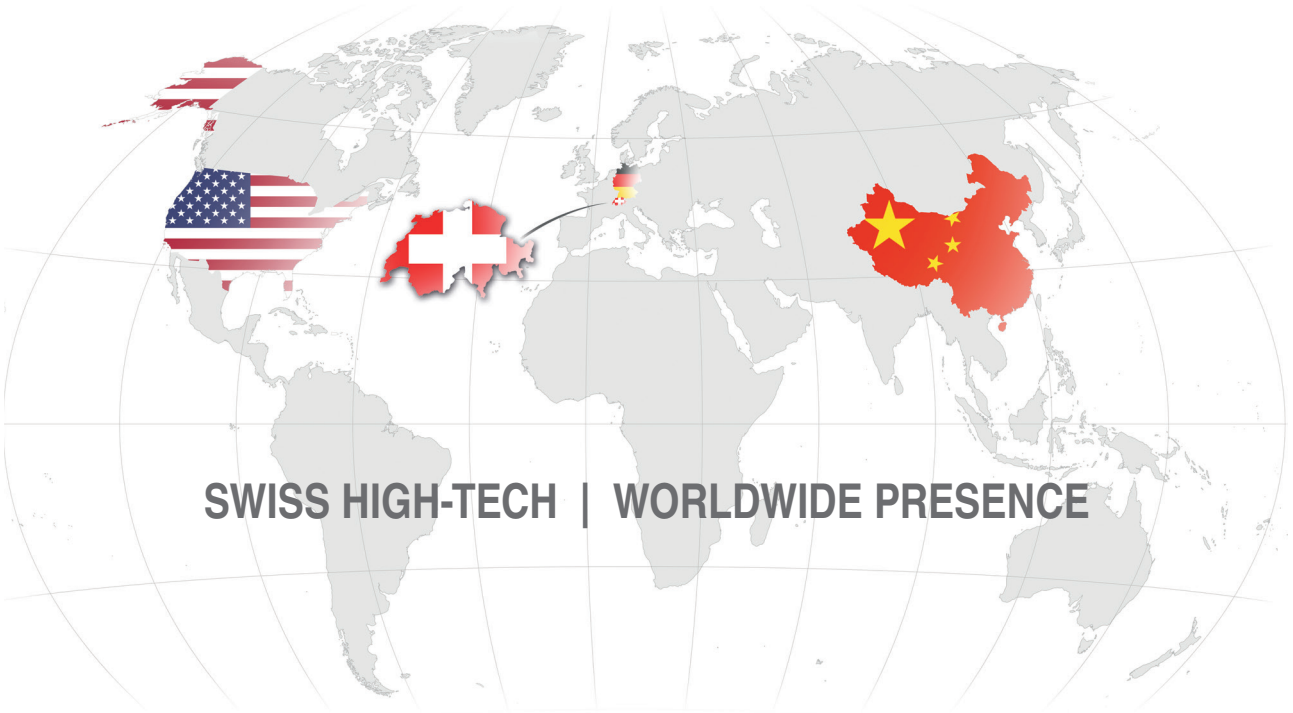
- Carrier orientation is communicated to automation system
- Equal placement of workpieces at the end of process for post-grind operations
- Automatic grinding wheel shape measurement, display, and correction
- Variable vibration dampening system
- Upper wheel clamping system
- Automated workpiece separation system for ease of unloading
- 25 mm measuring range for minimum set-up effort
- Wear-free direct drives, regenerative braking, high energy efficiency

As a leading manufacturer of flat honing, lapping, and polishing machines worldwide, Stahli is recognized for both our standard and custom specialized products.

Our technical expertise stems from decades of experience, continually enriched by daily challenges in contract work and the dedication of our skilled workforce. We're eager to share our knowledge with customers through contract services, testing, and complex project studies.

Experience our innovation and reliability firsthand.

Discover more at our website, www.stahliusa.com, or contact our facilities listed below.



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www.stahliusa.com

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