

2-Wheel Fine Grinding, Flat Honing, Lapping and Polishing

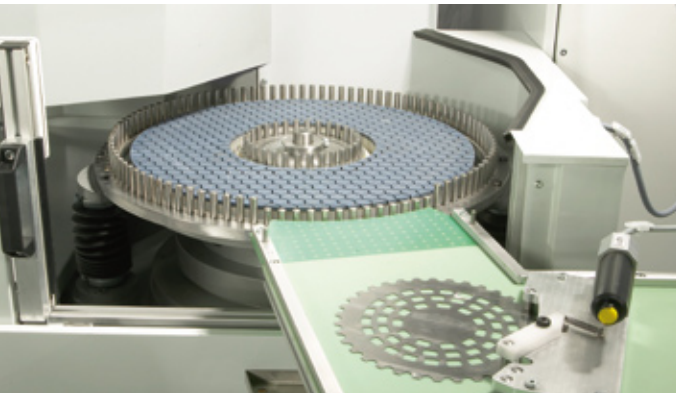
Increased quantities – More performance – Series production – High productivity
User-friendliness – Precision and Safety



2-Wheel
Fine Grinding, Flat Honing,
Lapping and Polishing

Inspiration.

Nature is our model: Inspiration and standard for our endeavours towards innovation and perfection.



Features

- Sturdy cast design
- Hydraulic machining load control
- Sensitive loading capability
- High repeatability
- Dressing facility
- Wheel cooling
- Use for lapping with cast iron wheels
- Use for cylindrical lapping
- Capability of attaching loading and unloading tables
- Automation concepts
- Safety guard for work zones
- Working wheel diameter up to 540 mm
- Variable planetary drive equipment
- Computer-aided measurement control
- Process linking

“Pioneers” of fine grinding process on two-wheel machines are the DUOMAT and ZL models of the Hahn & Kolb series. They have been advanced by the STÄHLI Group and represent thus a successful synthesis of the combined know-how. In the past over 2000 machines from these series were sold worldwide. The users now are being supported by the STÄHLI Group and benefit from the latest technology.

With the new ZL 501 GIII we kept the basic principle of the vibrationless and rigid cast design and made it even more rigid and heavy to consider today’s driving power requirements. The pivoted swivelling arm is still supported on a centre beam and the work force is hydraulically applied. Additional improvements and the touch-panel with extended machine functions complete the complete concept.

Worldwide specific service support of the STÄHLI Group for the range of fine grinding, lapping and polishing machines of Hahn & Kolb style:

- Spare part service for all models of the DUOMAT and ZL series
- On-site repair and installation service
- General and dedicated overhauls
- Modernization of existing concepts
- Extension with STÄHLI measuring size control unit
- On-site consulting
- Acquisition and sale of used machines

Technical data

ZL 501 GIII	
Total power requirement	15 kW
Workload	500 daN
Upper and lower working wheel	0–360 RPM
Center drive	0–140 RPM
No of driven wheels	2

Dimensions	
Max. working wheel diameter	540 mm
Max. working wheel ring width	165 mm
Max. work piece diameter	180 mm
Distance between working wheels	50 mm
Dimensions incl. control cabinet and hydraulic unit L x W x H	2100 x 1710 x 2300 mm
Weight	ca. 2200 kg

- Control panel with 10” touch-screen
- Overview of all important machine parameters
- Programming of workforce and working wheel speed with ramps for each of the 5 working steps
- Stock removal control
- Graphic display for stock removal and working pressure
- Programming of height for outer pin ring position and indexing of carriers for rapid loading and unloading
- Error indication with remedy reference

We are one of the leading companies worldwide in the manufacture of flat honing, lapping and polishing machines. At our customers we are known just as much by our standard products as by custom-made and need-oriented special products. This

special know-how results from decades of experience from daily new assignments in contract work and the support of our expert and committed workforce. We are happy to pass on our know-how to our customers within the framework of contract

work, tests and complex or experimental project studies. Put to the test our reliability and innovative dynamism. Further information may be obtained from the addresses listed or from our homepage.

Consultation and Sales, Machining and Testing centres

Switzerland

STÄHLI Lapping Technology Ltd
Sägestrasse 10
CH-2542 Pieterlen/Biel
Phone +41 32 376 05 00
Fax +41 32 376 05 09
LTP@stahli.com

STÄHLI Lapping Technology Ltd
Zürcherstrasse 262
CH-8406 Winterthur
Phone +41 52 203 50 51
Fax +41 52 203 21 40
LTW@stahli.com

Germany

STÄHLI Läpp-Technik GmbH
Max-Brose-Strasse 3
DE-771093 Weil i.S./Stuttgart
Phone +49 7031 75 779 6
Fax +49 7031 75 779 80
LTS@stahli.com

North America

STAHLI USA, Inc.
Midwest Headquarters
505 Oakwood, Suite 180
US-Lake Zurich IL, 60047
Phone +1 847 719 0360
Fax +1 847 719 0361
LTUS@stahli.com

www.stahli.com

