LIPPERT

MEMBER OF SCHUG GROUP

# Article foot polishing machine featuring pivot roller system AV 900/6-S

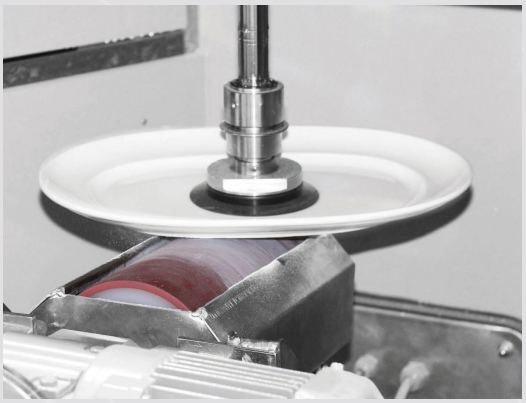
# ARTICLE FOOT POLISHING MACHINE

## FEAT. PIVOT ROLLER SYSTEM

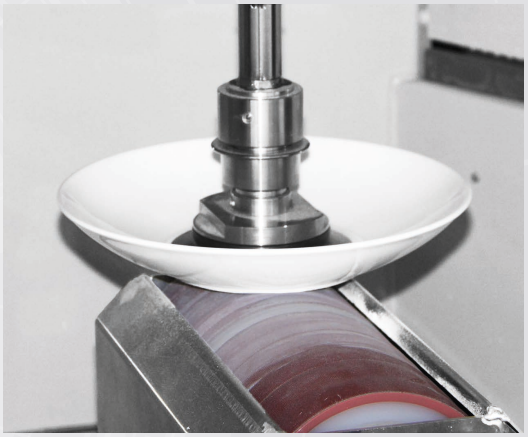
# AV 900/6-S

## BENEFITS

- Non-circular bases (oval, rectangular, double base)
- Wide range of products: plates, bowls, cups, especially for platters with non-circular, square base contours
- Dry polishing system using diamond polishing belts on a new rotating roller (patent applied for)
- Outstanding circular polishing of the outer edges of any base shape, thanks to contour-guided tilting of the polishing roller
- Best polishing results, due to fast-rotating polishing tools and counter-rotating articles
- Outstandingly long lifetime of the diamond abrasive, thanks to rotation-based self-cooling and lowest deformation during the polishing process
- Quick, easy replacement of the diamond abrasive thanks to pivotable polishing stations
- Lowest adhesion of swarf in the dry polishing process
- Easy integration into fully automatic kiln car unloading systems



**Base polishing of non-circular products**



**Base polishing of circular products**

**Brushing station**

**Inlet and outlet belt**

## DESCRIPTION

LIPPERT's latest innovation in diamond polishing technology - AV 900/6-S featuring pivot roller polishing system for ceramic products with perfectly smooth bases.

The combination of a newly developed pivot roller polishing system and our proven and trusted rotary table design results in a system that combines flexibility, highest quality as well as amazing output rates.

Innovative polishing tool design and long-lasting diamond abrasives enable high-quality circular polishing results for your bases.

## OPERATING SEQUENCE

The products can be loaded manually or by integration into an automatic feeding system.

The polishing machine uses vacuum cups to pick up the products coming from the infeed belt and routes them through three pivot roller polishing stations. The perfectly centered products always remain on the same vacuum cup of the rotary table during the entire circulation through the polishing machine. Each polishing station uses a dry polishing process with diamond abrasives. All polishing parameters can be set article-specific and are assigned to specific products and saved in the program.

The machine achieves excellent circular polishing results due to its rapidly rotating polishing tool acting on the counter-rotating products, plus the contour-guided tilting of the polishing roller.

After polishing, the products pass through an additional rotating brushing station where the underside of the article is finally cleaned.

The polished products are set down either individually or in position-oriented layers in stacks on an indexing conveyor for buffering.

## SYSTEM LAYOUT

# TECHNICAL DATA

## AV 900/6-S

| | |
|---|---|
| Output | 1,000 pcs/h at 1.0 sec polishing time<br>800 pcs/h at 2.0 sec polishing time<br>600 pcs/h at 3.0 sec polishing time<br><br>The machine‘s maximum output depends on the products‘ polishing time, size, geometry and on continuous machine operation.<br><br>The above output rates can be achieved by polishing series of identical products. Frequent product changes will reduce the machine‘s output to some extent. |
| Product types | Plates, bowls, oval platters, square platters, cups |
| Number of polishing stations | 1 – 3 (user configurable) |
| Number of cleaning stations | 1 (brushing station) |
| Max. outer product dimensions<br>Circular<br>Non-circular | <br>480 mm diameter<br>570 mm diagonal |
| Min. outer product diameter | 60 mm<br>(depending on the suction cup used) |
| Max. product height | 170 mm |
| Max. stack height | 170 mm |
| Max. base diameter | 380 mm diagonal<br>(double bases can only be flat polished) |
| Compressed air supply | 6 bar |
| Electrical power supply | 12,5 kW |

**Lippert GmbH & Co. KG**
Boettgerstrasse 46
D-92690 Pressath

Tel.: +49 9644 / 670
E-Mail: lippert@lippert.de
Web: www.lippert.de

LIPPERT
MEMBER OF SCHUG GROUP