Unbeatable for toothbrush finishing

- Family of machines for high-quality trimming and end rounding
- For up to 75 brushes per minute
- Extremely safe investment thanks to reliable engineering
Z.SWORD

Toothbrush finishing made easy

Z.SWORD is the family of manually operated machines for toothbrush finishing with simple or complex trims. Powerful trimming and grinding units guarantee top quality and perfect performance. ZAHORANSKY top technology Made in Germany – as you would expect.

Z.SWORD trims and rounds up to 75 brushes per minute

Perfect trimming and end rounding

Machines from the Z.SWORD family perfectly trim and end round even complex filament formations with different shapes and lengths.
Z.SWORD
Designed for **perfect end round quality**

Toothbrush finishing on a Z.SWORD includes the trimming and end rounding of the filaments. In addition, the brushes can be marked with date code, hot stamping and/or decals.

---

**High process reliability** thanks to remote maintenance via Internet

- Cost-effective remote maintenance by accessing Z.SWORD units via Internet
- Fast and direct access
- Immediate online diagnostics possible in the event of a problem
- Includes regular software updates
- Excellent security thanks to VPN (Virtual Private Network) with SSL encryption

---

**Z.SWORD: Machines with maximum efficiency**

- Semi automatic toothbrush finishing with low labor cost
- Wide variety of finishing options: Hot stamping, date code, decals, etc.
- High output (up to 75 brushes/min.)
- Highly flexible for different product designs
- High operation reliability
- Return on investment ensured by proven ZAHORANSKY technology Made in Germany
- Premium cut geometry through spreading units and profile trimmer

---

**Trimming**

Before end rounding, the filaments are cut by the trimming unit. Profile cutters are used for special trims.

**End rounding**

Specially coated wobble disk grinder guarantees optimum end round quality.
Z.SWORD
The right choice for every requirement

The following factors will determine the right unit for you:
- Type and version of the brushes
- Required output quantity
- Degree of brush treatment

All the machines are available in different versions. We will be happy to advise which version fits best for your requirements. Why not give us a call?

Z.SWORD 1
For complex profiles and high speed
- Machine for the manually operated finishing of toothbrushes with complex cuts and the best end rounding quality.
- Date code printing
- Optional handle treatment with decals or hot stamping
- Output belt with integrated brush cleaning unit
- With double clamping units for easy loading, with belt running on handle side
- Trimming and grinding stations can be replaced quickly
- 5.7” color screen (touch screen)
- Mechanical tapered grinding of standard nylon filaments

Z.SWORD 17
- Trimming and end-rounding stations: 7
- End-rounding units max.: 9

Z.SWORD 112
- Trimming and end-rounding stations: 12
- End-rounding units max.: 10

Z.SWORD 116
- Trimming and end-rounding stations: 16
- End-rounding units max.: 12

75 brushes/minute

Z.SWORD 2
For complex profiles
- Machine for manually operated finishing of toothbrushes with complex trim and perfect end round quality
- For up to 60 brushes per minute
- Best ergonomics for operators and mechanics
- Units can simply be swiveled out for easy adjustment
- Reproducible set-up of trimming and grinding units for simple changeover
- Optional handle treatment with decals, tampon print and hot stamping
- Conversion to another model possible almost without set-up time (recipe-controlled)
- Finished products ejection on to a flat belt
- 5.7” color screen (touch screen)

Z.SWORD 28
- Trimming and end-rounding stations: 8
- End-rounding units max.: 5

Z.SWORD 213
- Trimming and end-rounding stations: 13
- End-rounding units max.: 10

Z.SWORD 216
- Trimming and end-rounding stations: 16
- End-rounding units max.: 12

60 brushes/minute
German Engineering with Passion & Perfection

More than a century ago, Anton Zahoransky marked the start of a new era in brush production when he developed the first drilling and tufting machine for brushes. The company has grown into an international business offering complete solutions in the field of machine building and automation technology. It now has four divisions: Mold Making, Systems Technology, Packaging Machines and Brush Machines.

The driving force is and always has been more than just solid “German Engineering” and concentrated innovative strength. It is the unbroken spirit of “Passion & Perfection”: lifeblood, persistence and an absolute desire to develop solutions that deliver exactly what they promise.

ZAHORANSKY – PERFECTLY DIFFERENT