

Centrifugal disc finishing units

Tasks

Centrifugal disc finishing units are used for deburring and polishing predominantly small workpieces. Among all vibratory finishing processes, this processing principle proves to be the most efficient. Due to high centrifugal forces and strong grinding pressure, parts are deburred and polished in record time. However, large and heavy parts are not suitable for this type of processing, because they would damage each other. Centrifugal disc finishing units can be used both in wet and drying processes.

Principle of operation

A rotating disc sets workpieces in an energetic spiral motion together with chips. The grinding pressure can be precisely defined through the speed and abrasiveness of the chips.

Wet processing is used for deburring, pre-grinding and rounding parts. A water/compound mixture is continuously added.

Dry processing is mainly used for polishing small parts. On the one hand, the injection of fresh air prevents parts from being caught between the rotating disc and the pot and, on the other hand, serves to cool down the media. Thanks to an integrated separation system, parts can be easily separated from media.

Advantages

- Highly efficient
- Short process times
- Integrated separation of parts from media
- Wet as well as dry processing
- Extensive automation thanks to PLC and countless programmes (optional) being stored
- Small footprint
- Smooth running

Examples of use

- Stamping
- Mechanics
- Casting industry
- Watch industry
- Decolletage
- Medical technology

Range of components

- Laser and stamped parts
- Small turned and milled parts
- Watch parts
- Ceramics
- Implants
- Peak and plastic parts
- Springs

