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engraflexx AP

Tool with integrated, laterally deflecting compressed air spindle. The relatively low weight enables use in smaller robot cells and special systems. The spindle deflection function reacts very quickly and smoothly due to the special bearings.
The result: deburring or part reworking is always carried out evenly, regardless of any dimensional or positional deviations.

Field of application

Deburring and reworking of many different types of workpiece with different or undefined edges.

General information

- Universal use in robots and special systems
- Driven by an integrated air spindle (speed 30’000 rpm)
- Slim construction, low weight (< 2 kg)

Tool specifications

- Integrated, lateral deflection function up to max 15 mm
- Collet chuck for holding the processing tools
  - standard diameter 6 mm (further diameters on request)
- Lateral spindle deflection with adjustable deflection force
  - mechanically preloaded via spring assembly (deflection force independent of possible compressed air fluctuations)
  - stepless adjustment via knurled sleeve
  - setting readable on engraved scale
- Quick-change system for exchanging the compressed air spindle
  - Spindle can be replaced in a few easy steps
  - no downtimes in the event of defects due to crashes or wear
- Short deburring time
  - feed speed approx. 2’000 – 8’000 rpm depending on the application
- High removal rate due to use of carbide rotor pins
  - easily replaceable via collet
  - can be used for practically any machinable materials
- Additional usage options of different end milling cutters, grinding bits etc.
  - milling dimensionally defined chamfers or seamless radii
  - reworking of workpiece contours with position deviations

Option

- Possibility of attaching lateral workpiece stops
  - milling of bigger and/or absolutely dimensionally accurate chamfers
  - milling of seamless radii