SEH Technik GmbH – gravostar technologies
Freudenbergstrasse 1, CH-9242 Oberuzwil
Tel. +41 71 940 06 76, info@gravostar.com

engraflexx SX / BAZ-WA

This tool type has been designed for applications where seamless radii or larger, precisely defined chamfers have to be milled on workpieces or for other reworking on any undefined workpiece edges.
Unique stability and maximum running smoothness of the laterally deflectable spindle are the main features of the engraflexx SX/BAZ-WA. Due to the stable, separately pivoted workpiece stop, maximum process reliability is ensured at the same time.
Due to the special geometry of the stop nose and the smooth-running bearing, the stop automatically rotates around the spindle axis so that the stop tip is always directed against the edge to be machined. This allows workpieces with various internal and external contours to be reworked or deburred with absolute process reliability.

Application area

Precisely defined reworking of workpiece edges with deviating positions or dimensional differences, e.g.

- Milling off of protruding burrs
- Milling of dimensionally tolerated chamfers
- Milling of seamless radii

General information

- Universal use in CNC machines
  - Torque arm must be fitted
    (application is the same as for angle or multi-spindle heads)
- Tool is available with different tool holders
- Highest process reliability even when used in series production
  - Stable, pivoting workpiece stop
  - always guarantees uniform machining dimensions
- Use of commercially available milling cutters, grinding bits, etc.

Tool specifications

- Integrated, lateral deflection function up to max 8 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 package
  - stepless adjustment via knurled sleeve
  - setting readable on engraved scale
- Separate, extremely stable spindle bearing
  - outstanding stability and quiet operation
  - speed limits: standard 20’000 rpm, special 30’000 rpm
  - complete absorption of all occurring machining forces
- Wear-resistant hardened, extremely smooth-running, rotatably mounted workpiece stop
- Total weight of the spindle unit: 5.9 kg