

engraflexx EC-S

The core element of the engraflexx EC-S tool type is the radially deflecting tool spindle, which is held in a central position by a pre-tensioned spring mechanism. When the workpiece contour moves down, the router bit that is used therefore always automatically positions itself at the workpiece edge that is to be effectively deburred – even if this differs somewhat from the programming.

This means that each workpiece is automatically provided with even deburring independently of any dimensional or position deviations.

Field of application

Deburring and reworking of any workpieces
with different or undefined edges.

General information

- Version with reinforced deflection force for universal use in machining centres, automatic lathes, etc. (no additional installations required)
- Direct drive via machine spindle (speed range approx. 3'000 - 8'000 rpm)
- Standard model with 20 mm Weldon shank (ICS version and various special holders optionally available)

Tool specifications

- Integrated, **lateral deflection function up to max 6 mm**
 - unchanged deflection force even with larger spindle deflection
 - uniform deburring, independent of dimensional deviations
- Collet chuck for holding the processing tools
 - standard diameter 6 mm (further diameters on request)
- Lateral spindle deflection with adjustable deflection force
 - stepless adjustment via knurled sleeve
 - setting readable on engraved scale
- Extremely high degree of process reliability due to mechanical deflection function integrated into the tool
 - designed for series production, completely maintenance-free
- 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 stop cutters, grinding bits etc.
 - milling dimensionally defined chamfers or seamless radii
 - reworking of workpiece contours with position deviations

