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gravostar RB-20

The unique feature of this process: the marking needle, which is spring-mounted and pre-tensioned in the axial direction, is equipped with a freely rotating solid carbide ball. The marking contour is created by the compaction of the material left by the rolling action of the hard metal ball on the surface of the material.

Roller embossing is used for fine, visually high-quality marking and for applications where absolute freedom from burrs without any material throw-up is required. Even uneven marking surfaces can be provided with a consistent marking depth due to the spring-mounted marking needle with this tool type.

Field of application

Optically very high-quality, absolutely burr-free, fine marking
of any workpieces with regular, uneven or rough surfaces.

General information

- Use in machining centres, automatic lathes, etc.
  (no additional installations required)
- Extremely easily adjustable tool (without requiring a needle drive)

Tool specifications

- Integrated, automatic distance compensation up to approx. 5 mm
  (regular marking depth also of uneven marking surfaces)
- Marking depth via individually pre-adjustable adjusting sleeve
  (with scale for repeatable pre-tension pressure adjustment)
- Stable housing made from stainless steel
- Standard model with hardened Weldon shank
  (clamping diameter 20 mm)
- Marking needle with freely rotating carbide ball
  (material hardness 92 HRC)
  - needles are simple to replace with just a few manual operations
  - can be used for almost all machinable materials
    (hardness of marking surface up to approx. 62 HRC)
- Very short marking time
- Absolute burr-free marking with extremely high visual quality
- Extremely high degree of process safety due to single, spring-mounted,
  pre-tensioned marking needle
- For universal use (Weldon shank shaft with a diameter of 20 mm)
  - VDI tool holders for lathes (optionally available)
  - various HSK, SK or special tool holders for machining centres (optionally available)