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gravostar RMB-12

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)
- Very compact construction with hardened 12 mm Weldon shank

Tool specifications

- Integrated, automatic distance compensation up to approx. 6 mm
  (regular marking depth also of uneven marking surfaces)
- Stable hardened steel housing
- 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)
- Light pre-tension pressure of the marking needle (45 N)
- 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 12 mm)