

## gravostar R-20

An active needle drive is not required for the scratch marking process because of the spring mounted, pre-tensioned marking needle. The workpiece is marked by a combination of material compression and displacement. As soon as the point of the needle is brought into contact with the workpiece, the needle penetrates the surface of the material with a defined pre-tension pressure.

Even uneven marking surfaces can be provided with a consistent marking depth because of the consistent pre-tension pressure of the spring-mounted pre-tensioned marking needle in the axial direction with this extremely easily adjustable tool type.

### Field of application

Individual rather fine markings 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. 6 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)
- Extremely high resistance to wear of the hard metal marking needle
  - 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
  - feed speed more than 5'000 mm/min possible
- 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)

