

Product



No. 1 Position

The first magnetic gripper for machine tools.

Product features

Unique Selling Points:

- ✓ Stripper stroke and uplift for safe mounting and deposition of workpieces

Further Features:

- ✓ Robust aluminum housing with integrated permanent magnet
- ✓ Principle of magnetic gripping of ferromagnetic components in a gripping system for machine spindles
- ✓ Efficient gripping – just for releasing the workpiece energy is required on short term
- ✓ Can be actuated via coolant or compressed air
- ✓ Safe gripping even in case of power failure
- ✓ Available as of the first quarter 2011

Market and Competitors

Main Competitors

- ✓ No direct competitors known
- ✓ Mechanical grippers

Advantages towards competition:

- ✓ No attachment fingers necessary
- ✓ No adjustment or change of attachment fingers necessary

Cost Effectiveness / Customer Benefits

Customer Benefits:

- ✓ The gripper is flexible for versatile workpieces (also with bores)
- ✓ By using this gripper, several parts can be collected in piles
- ✓ Fast set-up, safe clamping - precise machining with the machine's own axes
- ✓ Maximum plant productivity due to lean automation
- ✓ Reducing set-up times – increasing productivity
- ✓ Can be used via any shank diameter in all toolholders (with one exception: heat shrinking technology!)

Questions about the product? Your contact person is M. Nagel (+49 - 7133 - 103 - 2561)

Technical Data / Functions

Basic technical Data:

- ✓ Sizes: 20
- ✓ Weight: 0,7 kg
- ✓ Gripping force: 20 N
- ✓ Stripper Stroke: 20 mm
- ✓ Reserve Stroke: 9 mm
- ✓ Workpiece weight: 1 kg

Complementary Products:

- ✓ Gripper for GSW-B shank interface
- ✓ GSW-B with AGE Compensation Unit
- ✓ Gripper similar to PGN-plus/PZN-plus
- ✓ RGG Cleaning Unit
- ✓ GSW-V Vacuum Gripper

Industries and Applications

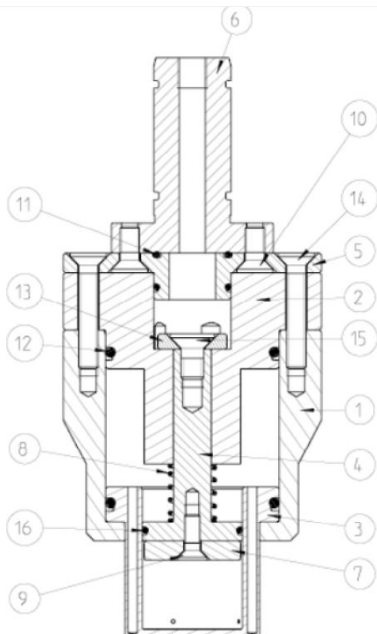
... convinces in the following industries

- ✓ Metal Cutting
- ✓ Sheet metal processing

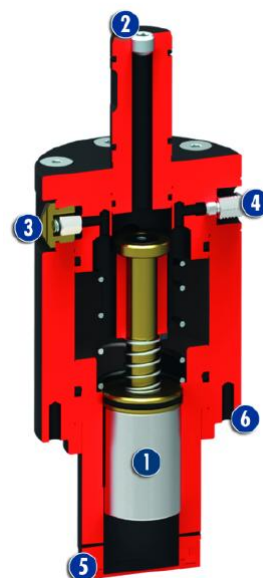
Applications

- ✓ Handling of perforated plates, workpieces with complex outside contours, components with bore holes, cuttings etc.
- ✓ Handling of ferromagnetic workpieces
- ✓ Handling of limp components, e.g. bearing rings
- ✓ Bar grippers in lathes
- ✓ Finished part acceptance test in lathes

Additional Information



Cross Section



1. **Permanent magnet** for holding of magnetic Materials
2. **Media supply** via spindle interface
3. **Overpressure valve** for a large pressure range
4. **Drain valve** for coolant operation
5. **Ejector** for a controlled set down of the workpiece
6. **Thread** for customerspecific attachments/supports

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