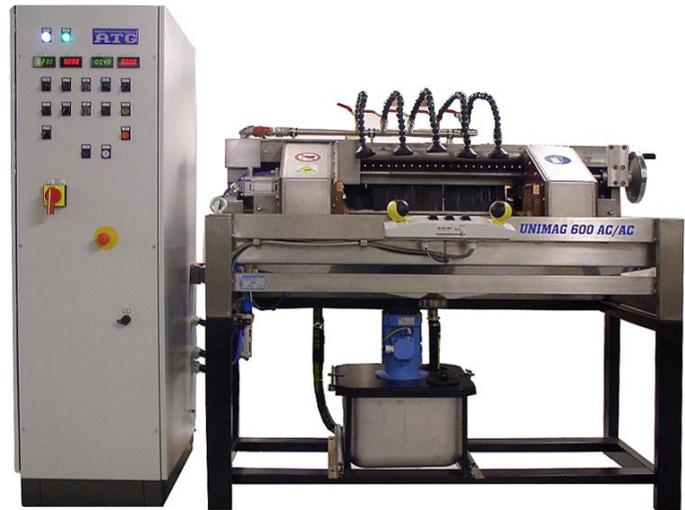


## HORIZONTAL MAGNETIC PARTICLE BENCHES

### UNIMAG 400 - 600 - 900 AC/AC



Compact *UNIMAG 400* -  
version with touchscreen

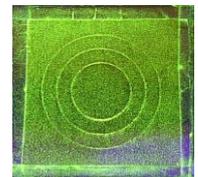


High-efficiency *UNIMAG 600* -  
version with discrete controllers

#### DESCRIPTION

Line of horizontal magnetic particle crack detectors *UNIMAG xxx AC/AC* is designed for detection of surface defects in ferro-magnetic materials. These test benches allows application of different magnetizing techniques:

- Circular magnetization due to AC current flow through the tested part
- Circular magnetization of hollow parts due to AC current flow through the central conductor
- Longitudinal flux flow magnetizing
- Current induction (transformer magnetization) - electric current induction on a hollow part surface by means of a central laminated Cu/Fe twincore bar
- Combined magnetization - simultaneous longitudinal and circular magnetization
- Demagnetization by short decreasing curve cca 1,5 sec.



Indications on the  
Shim Type 3C4-234

As control panel can be installed touchscreen or LED displays with discrete control elements. The PLC based control system assures preset of testing parameters - like current control, timing of magnetization, spraying time etc.. In the case of a higher differences between measured and preset values (oxidized contacts etc.) over  $\pm 10\%$  the magnetization is automatically interrupted and control system is signalling non-standard status.

#### OPTION

Spraying heads / showers on flexible hoses, dark cabin with moveable holder for UV lamp, powders and concentrates, UV / luxmeters, Gauss-Tesla meters, gauges MTU, ASTM ...

| Parameter                 | Unit   | Line <i>UNIMAG AC/AC</i>     |        |        |        |          |
|---------------------------|--------|------------------------------|--------|--------|--------|----------|
| Clamping length           | mm     | 400                          | *400   | 600    | 900    | *600/900 |
| Current magnetizatin AC   | A      | 1600                         | 2000   | 2 200  | 2 400  | 3 400    |
| Lenghtwice magnetizace AC | Az     | 8 000                        | 10 000 | 10 000 | 15 000 | 17 500   |
| Loading                   | kg     | 25/50                        | 25/50  | 100    | 100    | 100      |
| Power inpur               | kVA    | 20                           | 25     | 32     | 40     | 60       |
| Stroke of clamping valve  | mm     | 10                           |        |        |        |          |
| Feeding                   | V / Hz | 3 + N + PE 230/400 V - 50 Hz |        |        |        |          |

\**UNIMAG XXX / HP* has higher power and duty cycle 50%