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HORIZONTAL MAGNETIC PARTICLE BENCHES
UNIMAG 400 - 600 – 900 AC/AC

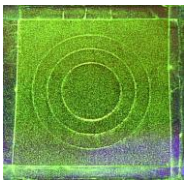
Compact *UNIMAG 400* - version with touchscreen

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 ± 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* ***UNIMAG AC/AC***				
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%