

Advanced Technology Group s.r.o.



COMPLETE SOLUTION FOR NDT

UNIMAG 2000 FLAT AC/HWDC

The system UNIMAG 2000 FLAT is designed for Magnetic Particle Inspection for automatic testing of large gears, cog wheels or rings. The UNIMAG significantly reduces inspection time up to 1/3 and increases testing reliability and safety! Complies with norms: ASTM E 1444, EN ISO 99341-2, BSS 7040, PR 5300, GOST 56512.

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|-------------------------|--------------------|-------------------------------|
| Crack detection | Cross yoke AC/AC | Automatic defect recognition |
| All defect orientation | Split coil AC-HWDC | Powerfull Demagnetization |
| Outer and inner surface | 30% load factor | Residual magnetism ≤ 3 G |

FAST, SAFE AND RELIABLE MAGNETIC PARTICLE INSPECTION



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MAIN FEATURES



Kinds of magnetization currents:	Yokes AC/AC; coil AC/ HWDC
Kind of regulation:	Phase angle control, no sinusoidal course
Method of regulation:	Continuous setting
Method of constant current regulation:	Fast control/regulation loop
Control of the magnetization current:	Signalization if exceeded by $\pm 10\%$
Working cycle during maximum output:	30 % / 1 hour
Maximum time of the current opening:	3 min continuous
Maximum mass of the part:	5000 kg
Maximum testing diameter / thickness:	2000 mm / 500 mm
Air pressure min. / max.:	Min. 0.45 – 0.60 MPa
Type of the testing media used:	Water, oil



Magnetic Particle Inspection of big rotary parts can be so fast and simple, now!