MOBILE AND STATIONARY MAGNETIZING DEVICES

Cross yoke NR 01

Art.No. 131.011.120

The Cross Yoke NR 01 is used for contact and non-contact magnetization of different parts. It is powered by two equipotent alternating currents, dephased by 90°, thus producing a rotating magnetization vector whose field strength is equal in all directions. This magnetization technique enables the detection of discontinuities of any orientation during only one operation. The Cross Yoke NR 01 is particularly suitable for testing of tube ends, tooth gears and different cylinder parts.

Specifications

Operating voltage, cross yoke, VAC	2 x 50
Operating current, A	2 x 60
Pole spacing, mm	360 x 360
Pole cross section, mm	60 x 60
Dimensions, mm	330 x 500 x 330
Min. internal pipe size, mm	500
Lifting force, N	> 600
Primary voltage, transformer, VAC	3 x 400
Duty cycle, %	60
Weight, kg	approx. 85
Protection class	IP 54

Necessary auxiliaries: control desk Art.-No. 131.011.121
Foot switch Art.-No. 131.020.090
Hold systems as per customer's request. e.g. Art.-No. 131.011.122

MT test device with cross-shaped coil

Art.No. 139.901.100

The MT Test Device consists of a cross-shaped coil type KR 650® with an integrated suspension showering arrangement, foot-switch, suspension collection tank and control box. The cross-shaped coil is used for non-contact magnetization of bars, billets, ingots or cylindrical parts. It is powered by two equipotent alternating currents that are dephased by 90°, thus generating a rotating magnetizing vector. Thus, surface cracks of any orientation can be detected during one operation.

Specifications

Operating voltage, V	AC 3 x 400, AC 3 x 9/12/15
Power consumption, kVa	50
Magnetizing currents, A	3 x 0-1800, stepless setting
Tangential field strength, A/cm	≥ 30
Cross coil diameter, mm	650
Cross coil weight, kg	approx. 150
Test piece cross section max, mm	300 x 210
Test piece weight max, kg	10
Control box dimensions, mm	2400 x 1200 x 800
Control box weight, kg	approx. 800

Optional: darkening cabin, UV LED equipment, PLC control

HETT demagnetizing tunnels

The demagnetization effect of the AC demagnetizing tunnels is based on the principle of subjecting the part to a reversing and decreasing magnetic field. This can be accomplished by pulling a part out and away from a coil with AC passing through it.

The AC magnetic field penetration at 50 Hz frequency is about 2 mm (on steel). In order to increase the penetration depth an additional low-frequency generator with $16\frac{2}{3}$ Hz should be used.

	HETT 1500	**HETT 2500**	**HETT 4500**
	Art.No. 132.002.010	Art.No. 132.002.020	Art.No. 132.002.040
Voltage, V	AC 230	AC 230	AC 230
Field strength, A/cm	110	90	65
Dimensions, mm	325x260x260	325x390x390	325x580x577
Clear diameter, mm	150	250	450
Weight, kg	approx. 24	approx. 46	approx. 90