

## Cross Yoke KMU 8/42 mini

### Hand Magnetization Device



Two AC yokes (pole spacing 140 mm) are arranged crosswise. They are supplied by two equal AC currents at 90 degree phase shift. Thus, a rotating magnetization vector is created, whose field strength is equal in all directions.

With this technology surface defects can be detected independently from their offset direction during one inspection step.

The magnetic field is induced to the test specimen through a small air gap. Four wheels are installed at the poles which keep the distance between the poles and the surface of the test specimen constant. Furthermore, they enable smooth movement of the yoke.

The tangential field strength is constant 27 A/cm at an air gap of 5 mm.

Cross yoke **KMU 8/42 mini** is fully sealed and designed according to IP 54 protection. The cross yoke is supplied by a safety transformer (2 x 42 V AC). The transformer is designed according to IP 23 protection. It requires 3 x 400 V AC primary.

Special designs are available for **fillet weld** or **area testing**.

<b>KMU 8/42 mini</b>	<b>Art.-Nr. 131.016.101</b>	<b>Transformer</b>	<b>Art.-Nr. 131.016.110</b>
Voltage	2 x 42 V AC	Input voltage	3 x 400 V
Operating current	2 x 13 A	Output voltage	2 x 42 V
Pole spacing (centre/centre)	140 mm	Output current	2 x 13 A
Pole cross section	25 x 25 mm	Power consumption	1.09 kVA
Dimensions	210 x 220 x 330 mm	Dimensions	275 x 225 x 195 mm
Tangential field strength	27 A/cm	Cable length	5 m
Lifting force	> 250 N	Protection system	IP 23
Duty cycle	60 %		
Weight	9.8 kg		
Protection system	IP 54		

Heidgraben, September 2017

Subject to technical changes