MASHPROJECT LLC

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STREAM-20

Magnetic particle flaw detector

STREAM-20 portable magnetic particle flaw detector is designed to detect surface and subsurface defects when testing products made of ferromagnetic materials.

Operating principle: magnetization of the test object to search for various discontinuities with subsequent demagnetization.

The flaw detector is used to check the structure state, strength and other mechanical properties of various workpieces, metal structures, parts of railway transport, both at the manufacturing and during operation.

The low weight of the device (30 kg) is successfully combined with a high output current value.

EXPLOITATION ADVANTAGES

- AC/DC (rectified half-wave) operating mode allows both circular and longitudinal magnetization of test objects
- Direct indication of the magnetizing current amplitude value
- Flexible adjustment of impulse current, up to single pulse operation mode
- Magnetization time setting
- Demagnetization time setting Demagnetization time setting
- Saving settings
- Automatic overheating protection

OBJECTS OF CONTROL:

- Building metal structures
- Gear wheels
- Cast parts
- Castings
- Forgings

MAIN TECHNICAL PARAMETERS

Alternative current	
Peak AC, not less	2100 A
Effective AC, not less	1400 A
Rectified half-wave current	
Peak value, not less	2000 A
Effective value, not less	1000 A
Features	
Current adjustment	Smooth
Current indication	Peak value, 1 A resolution
Current measurement error, no more	10 %
Magnetization current	Continuous / intermittent (current-pause)
Intermittent current parameters setting	
Current impulse duration	0.02 – 9,98 s, with 0.02 s step
Pause duration	0.02 – 9,98 s, with 0.02 s step
Magnetization time control	Manually (button on handle, foot switch, button on main device) / timer control
Timer setting range	0.02 – 99,98 s, with 0.02 s step
Demagnetization	Amplitude-decreasing current
Demagnetization time setting	4 – 99 of period of current (0.08 – 1.98 s)
Operating characteristics	
Duty cycle at max. power	50%
Maximum duration of current supply	10 s
Open circuit voltage	5 V
Length of high current cable	2,5 m
High current cable cross section	95 mm²
Power consumption	8 kVA
Power parameters	220 V, 50 Hz, 32 A
Power cable (3 m length)	Removable, waterproof connector
Dimensions (Width x Height x Depth)	265 x 300 x 420 mm
Weight without current cables	30 kg

BASIC DELIVERY SET

1. Main unit
2. Current cable of 2.5 m length and 95 mm cross section with pistol grip and melt-off electrode
3. Current cable of 2.5 m length and 95 mm cross section with pistol grip, melt-off electrode and current switch on button
4. Power cable
5. Operating manual

ACCESSORIES:

1. Magnetic coil
2. Current cables, handles
3. Melt-off electrodes made of different metals
4. Electromagnet
5. Non-standard length power cable
6. Current ON/OFF foot switch
7. Custom magnetizing devices
8. Trolley

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