DEUTROFLUX Demagnetizing Coils

Application Range

DEUTROFLUX demagnetizing coils are utilized for demagnetizing outside of the DEUTROFLUX magnetic particle crack detector, in connection with fitting conveyor belts.

Accessories

For automation by continuous course the various demagnetization coils can be fitted with suitable conveyor belts.

Magnetic Data

Magnetic field strength > 20 kA/m (> 250 Oe).

Electrical and mechanical Data

type	article number	supply voltage	I min [A]	I max [A]	W [mm]	H [mm]	D [mm]
ESV 100S MSV 100S	3601.1 3460.1011	400 V	2.3	2.7	265	285	200
ESV 150S MSV 150S	3602.1 3460.1501	400 V	5.0	5.6	340	360	250
ESV 200S MSV 200S	3603.1 3460.2011	400 V	14.4	16.8	400	435	310
ESV 300S MSV 300S	3604.1 3460.3011	400 V	15.0	17.3	450	470	410
ESV 400S MSV 400S	3605.1 3460.4011	400 V	32.5	35.0	560	580	520
ESV 500S MSV 500S	3606.1 3460.5011	400 V	59.0	63.0	660	710	660

Note: The coil type MSV is fitted with a waterproof case. The mechanical size of which may deviate slightly against the above stated.

Operating the coil and the conveyor belt

As single control element an ON/OFF switch is provided each.

Maintenance

Coil and conveyor belt unit are maintenance-free.

Demagnetizing velocity

The pass rate of the part to be demagnetized can be selected as desired as long as rate of fall does not become exceeded.

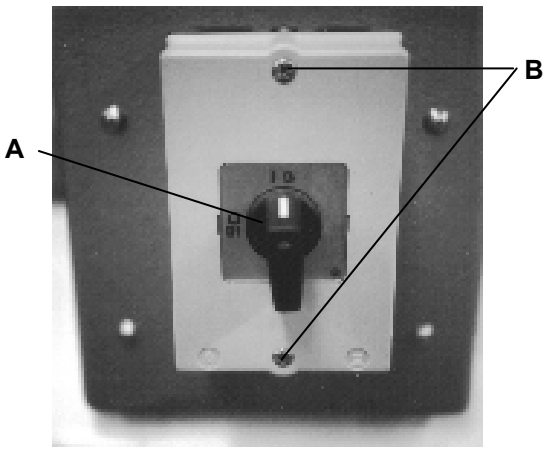
Safety note

For safety reasons, **persons with cardiac pacemakers** should ...

- ... not operate electro-magnetic sorting or demagnetizing systems
- ... keep sufficient distance from working coils (at least 1 m)
- ... follow the manufacturer's safety directives for trouble-free function of the implant

Connecting the ESV coils to the mains

The following works must only be carried out by an electro-technically skilled specialist.



1. Loosen and remove the knob of the ON/OFF switch (A)
2. Loosen screws (B) and lift off switch cover
3. Lead a sufficiently dimensioned connection cable (c.f. coil data) through the passing hole into the inside of the switch
4. Connect protective wire
5. Connect phases, arbitrary phase sequence (connection values c.f. coil data)
6. Reassemble ON/OFF switch employing vice-versa sequence
7. Connect connection cable to mains