

DECLARATION OF INCORPORATION

2006/42/EC

Supply of Machinery (Safety) Regulations 2008

Equipment for Use in Potentially Explosive
Atmospheres Regulations 2014/34/EU



SPECIALIST
TOOLING
TECHNOLOGIES LTD

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Description of product: - Bearing Housing and Drive Motor Assembly for a circulation fan in an explosive environment.

Model / Reference No: - 41005-900

Standards used: - ISO 12100:2010, EN ISO 13849-1 & 2

EN IEC 60079-0:2018, EN ISO 80079-36:2016 and
EN ISO 80079-37:2016

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The Plant and Control system into which this product is to be integrated must be assessed as a whole in order for the full system to comply with the above standards and EN60079-7:2015

Product Manual, Fitting instructions (Supplied with equipment and can be downloaded at: - <https://spectooling.com/magdrive-technical-documentation/> "QR Code below") must be strictly adhered to.



Schedule of Limitations

1. Fan impeller isn't part of magnetic coupling and must be assessed together with the MAGDRIVE acc. to EN 14986:2017
2. Max allowed rotational speed of the magnetic coupling is 1461 RPM.
3. Coupling is intended for vertical position with the shaft facing down.
4. Maximum allowed axial and radial load of the bearings must not be exceeded.
5. Ignition prevention system (IPS) type b1 shall be applied to prevent the unsatisfactory vibration level (normal value: <2.5 mm/s, critical value: 7 mm/s). Clauses 6.1, 6.3, 6.4, 6.5.1, 8.2.2 and 9.2 of EN ISO 80079-37:2016 must be evaluated.

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6. The coupling must be connected to earth or mounted on a part which is in contact with the earth.
7. Max. service temperature range: -20°C to +150°C. Maximum surface temperature rise determined to $\Delta T=30K$ at the ambient temperature: -20°C to +40°C.
8. Bearings, Grease, Seals and wave spring should be replaced after 5500hrs running or after 2 – years, whichever occurs first.
9. Manufacturer's instructions for incorporation into Ex products must be considered.

Manufactured to: - ISO9001-2015 Standards

Cert No: - 23/2420

Place of issue: - Specialist Tooling Technologies Ltd.

Name of authorised representative: - A. G. Hutsby

Position of authorised representative: - Technical Director.

Declaration

I declare that as authorised representative, the above information in relation to the supply / manufacture of this product, is in conformity with the stated standards and other related documents following the provisions of the (2006/42/EC) Directive and its amendments.

Signature of authorised representative.



Date. 01/10/2025