



EBM Magnetic Tape



Various products

Ordering codes for magnetic tape

EBM A 1 - 10 . XXX

In case of particular Customer variant separate with a full stop

EBM = Eltra magnetic tape

A = type of magnetic tape

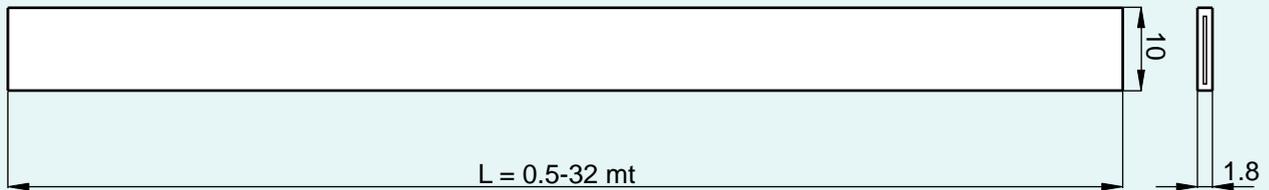
1 = magnetic strip for resolution 0,1mm
2 = magnetic strip for resolution 0,04mm

XXX = Special Customer variants indicated by a progressive number from 0001 to 999

10 = Lenght magnetic tape (m)
N.B.= Multiples of a metre

- = separate with a hyphen

EBM



N.B.: It is possible to have different lengths only to order.

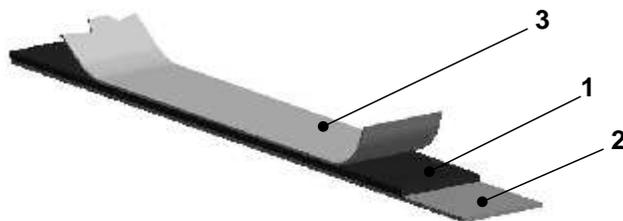
Technical Characteristics

Operating Temperature	0° ÷ +60°C
Accuracy at 20° C in mm	+/- (0,025 + 0,02 x L) L= lenght magnetic tape in m
Lenght expansion coefficient	16 x 10 ⁻⁶ m (m x °C)
Bend radius	Minimum 150 mm

Generality

As can be seen from the explicative drawing, the Eltra magnetic belt is composed essentially of three layers:

- 1 - A flexible magnetic belt made of plastic material.
- 2 - This is a magnetised steel belt with the characteristic of creating a shield against any external magnetic fields of a certain level; apart from this, as it is in contact (glued) to the upper plastic layer, it is essential for supplying the correct mechanical consistency to the magnetic belt.
- 3 - This last part of the belt is the least flexible part. It is in fact supplied separately (for transport and application reasons) and is glued to layer 1 by the user. This is a steel belt transparent to the magnetic flow, with the function of mechanically protecting the magnetic belt.



N.B.: To prevent damage from possible internal tensions in the magnetic belt, keep the band rolled up with the magnetic part facing outwards with a minimum internal diameter of 300 mm.

Measures to adopt when applying the magnetic tape

Pressure for fixing

The magnetic belt is adhesive and it is therefore important that the contact with the surface to be glued is optimum for correct application. For this to take place, good pressure must be applied uniformly to guarantee perfect adhesion between the surfaces.

Gluing temperature

For the adhesive to adhere in an optimum way, it is preferable for the temperature of the material in which the magnetic belt is placed to be between 20° C and 37° C. Maximum adhesion is obtained after 72 hours at a temperature of 21° C. We recommend against applying the magnetic belt if the temperature of the gluing surface is lower than 10° C.

Application materials

For the magnetic belts to adhere correctly, they must be placed in dry, smooth and clean places. The surfaces should be cleaned with a solution of alcohol and water at 50% or heptane. In the case of materials such as brass, copper etc. the surface must be protected to prevent possible oxidisation.

Chemical agents and the behaviour of the magnetic tape

Chemicals, showing no or only a small effect	Chemicals, showing small to medium effect	Chemicals, showing strong effects
Formic acid	Acetone	Benzene
Cotton seed oil	Acetylene	Lacquer solvent
Formaldehyde 40%	Ammonia	Nitrobenzene
Glycerol 93°C	Gasoline	Nitric acid 70%
N-hexane	Vapor	Red Nitric acid
Iso-octane	Acetic acid 20%	Nitric acid 37%, 93°C
Linseed raw oil	Kerosene	Turpentine
Lactic acid	Acetic acid 30%, glacial acid	Carbon tetrachloride
Mineral oil	Isopropyl ether	Tetrahydrofuran
Soybean oil	Oleic acid	Toluene
	Sea water	Trichlorethylene
	Stearic acid 70%	Dimethylbenzene

