

EUROMAP 64

**Injection Moulding Machines
Warning Signs**

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(7 pages)

This recommendation has been prepared by the Technical Commission of EUROMAP in cooperation with the Society of the Plastics Industry (SPI), Washington DC. Its content is published in the USA under AN-137, V. 3.4:2008.

Explanatory text (USA only) updated (Ver. 1.1).

References to other standards updated, further warning signs added (Ver. 1.2).

Debugged (No. 1, US text), (Ver. 1.3).

Explanatory text (USA only) updated (Ver. 1.4).

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1 Scope

In this document shape, colour and graphical symbols of warning signs, to be used on injection moulding machines are standardized. They shall be used for the information of the operators and people in the vicinity of injection moulding machines.

2 General

The signs in this document follow the principles of ISO 3864-1.



(only applicable with a graphical symbol in **black**)

The warning signs shall be used on the machine at positions as given under clause 3. In the USA by law they need to be combined with an explanatory text.

Where additional warning signs are needed for a special application, where possible, safety signs already standardized shall be used, e.g. in ISO 7010. Otherwise the principles outlined above shall be followed. The graphical symbol for the warning sign shall preferably be selected from the ones already standardized in ISO 7000.

3 Warning signs

No. 1 Thermal hazard (ISO 7000-535)



Positioning: front end of cylinder cover, operator's side



Explanatory text (USA only)

No. 2 High voltage (IEC 417-5036)

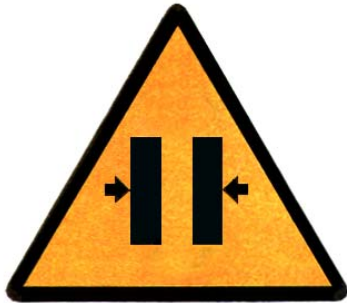


Positioning: on each electrical cabinet and/or box containing dangerous high voltage



Explanatory text (USA only)

No. 3 Pinching / crushing hazard

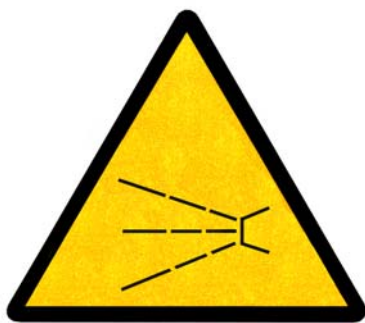


Positioning: only on all moveable guards of the mould area



Explanatory text (USA only)

No. 4 Splashing hazard (ISO 7000-073)



Positioning: on the purge guard



Explanatory text (USA only)

No. 5 Magnetic field (ISO 7010 – W006)



Positioning: near magnetic mould clamping



Explanatory text (USA only)

4 Bibliography

AN-137, Version 3.4:2008 "Recommended Guideline for Safety Signs for Plastics Machinery and Related Equipment"

IEC 417 "Graphical symbols for use on equipment"

ISO 3864-1 "Safety colours and safety signs"
Part 1 "Safety signs in workplaces and public areas – Design principles"

ISO 7000 "Graphical symbols for use on equipment – Index and synopsis"

ISO 7010 "Graphical symbols – Safety colours and safety signs – Safety signs used in workplaces and public areas"

EUROMAP

Europäisches Komitee der Hersteller von Kunststoff- und Gummimaschinen

European Committee of Machinery Manufacturers for the Plastics and Rubber Industries

Comité Européen des Constructeurs de Machines pour Plastiques et Caoutchouc

Comitato Europeo Costruttori Macchine per Materie Plastiche e Gomma

See you again

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