



National Standards Authority of Ireland

IRISH STANDARD

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ICS 73.100.10

**MACHINES FOR UNDERGROUND MINES -
SAFETY REQUIREMENTS FOR HYDRAULIC
POWERED ROOF SUPPORTS - PART 2:
POWER SET LEGS AND RAMS**

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EUROPEAN STANDARD
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English version

**Machines for underground mines - Safety requirements for
hydraulic powered roof supports - Part 2: Power set legs and
rams**

Machines pour mines souterraines - Exigences de sécurité
relatives aux soutènements marchants applicables aux
piles - Partie 2: Etançons et vérins à pose mécanisée

Maschinen für den Bergbau unter Tage -
Sicherheitsanforderungen für hydraulischen Schreitausbau
- Teil 2: Stempel und Zylinder

This European Standard was approved by CEN on 21 September 2001.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.



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Foreword

This European Standard has been prepared by Technical Committee CEN/TC 196 "Machines for underground mining - Safety", the secretariat of which is held by BSI.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by April 2002, and conflicting national standards shall be withdrawn at the latest by April 2002.

This European Standard has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EC Directive(s).

For relationship with EC Directive(s), see informative Annex ZA, which is an integral part of this standard.

This standard is Part 1 of a European Standard specifying the safety requirements for hydraulic powered roof supports.

Other parts are:

Part 1: Support units and general requirements

Part 3: Hydraulic control systems

Part 4¹): Electro-hydraulic control systems

Annexes A and B are normative.

This standard includes a Bibliography.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

¹) in preparation

EN 1804-2:2001 (E)

0 Introduction

This European Standard is a Type C-standard as stated in EN 1070

The extent to which hazards are covered is indicated in the scope of the standard.

While producing (or when compiling) this standard it was assumed that:

- only trained and competent persons operate the machine;
- components without specific requirements are:
 - a) designed in accordance with the usual engineering practice and calculation codes;
 - b) of sound mechanical construction;
 - c) free of defects.
- components are kept in good working order;
- negotiations have taken place between the user and the manufacturer of the legs and rams (manufacturer of the roof support unit or final user in case of replacement parts) concerning the use of the machinery.

1 Scope

This standard specifies the safety requirements for legs and rams when used as specified by the manufacturer or his authorised representative. Examples covered by the standard include legs, support rams and rams with their mechanical extensions, internal valves and safety devices, seals, hydraulic connections (up to the first hose or Type B valve, see Part 3) and their lifting points but excluding protective pipes and gaiters, external valves and hydraulic and electrohydraulic control systems.

NOTE Some components are dealt with in other parts of this standard.

This standard applies to legs, support rams and rams used at ambient temperatures from $-10\text{ }^{\circ}\text{C}$ to $60\text{ }^{\circ}\text{C}$.

This standard identifies and takes account of:

- Possible hazards which may be caused by the operation of legs, support rams and rams;
- Areas and operating conditions which may create such hazards;
- Hazardous situations which may cause injury or may be damaging to health.

This standard describes methods for the reduction of these hazards.

A list of hazards covered appears in clause 4.

This standard is applicable to all legs, support rams and rams placed on the market for the first time and which are manufactured after the date on which this standard was published.

This European standard does not establish the additional requirements for:

- Specially corrosive environments;
- Hazards occurring during construction, transportation, decommissioning;
- Earthquake.

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