

Specification for

Capacity ratings and dimensions of power presses, mechanical open front type

[ISO title: Open front mechanical power presses — Capacity ratings and dimensions]

UDC 621.979.63 – 531.3 – 181

Confirmed July 2010

NO COPYING WITHOUT BSI PERMISSION EXCEPT AS PERMITTED BY COPYRIGHT LAW

BSI
Documents

AVA

Document Sharing Hub

Committees responsible for this British Standard

The preparation of this British Standard was entrusted by the Mechanical Engineering Standards Committee (MEE/-) to Technical Committee MEE/6 upon which the following bodies were represented:

- Department of Trade and Industry (Mechanical and Electrical Engineering Division)
- Federation of British Engineers' Tool Manufacturers
- GAMBICA (BEAMA Ltd)
- Health and Safety Executive
- Institution of Production Engineers
- Machine Tool Industry Research Association
- Ministry of Defence
- University of Aston in Birmingham
- University of Manchester Institute of Science and Technology
- Coopted members

The following bodies were also represented in the drafting of the standard, through sub-committees and panels:

- Institute of Sheet Metal Engineering
- Metalfforming Machinery Makers' Association Ltd.

This British Standard, having been prepared under the direction of the Mechanical Engineering Standards Committee, was published under the authority of the Board of BSI and comes into effect on 30 April 1985

© BSI 12-1999

The following BSI references relate to the work on this standard:
Committee reference MEE/6
Draft for comment 82/80282 DC

ISBN 0 580 14440 2

Amendments issued since publication

Amd. No.	Date of issue	Comments

Contents

	Page
Committees responsible	Inside front cover
National foreword	ii
1 Scope and field of application	1
2 References	1
3 Dimensions	1
Figure 1 — Layout of press and alternative beds	2
Figure 2 — Slide	3
Figure 3 — Bedplates type 1	3
Figure 4 — Bedplates type 2	3
Figure 5 — T-slots for bedplates	3
Figure 6 — Bedplug for beds with round holes	4
Figure 7 — Bedplate ring for bedplates type 2	5
Publications referred to	Inside back cover

National foreword

This British Standard has been prepared under the direction of the Mechanical Engineering Standards Committee and implements agreements of the International Organization for Standardization (ISO). It is identical with ISO 6898:1984 “*Open front mechanical power presses — Capacity ratings and dimensions*” which is based on recommendations of the European Power Press Manufacturers Panel (Secretariat, Machine Tool Industry Research Association, Macclesfield).

Diagrams. For reasons of simplicity the diagrams in this standard illustrate only one type of machine.

Terminology and conventions. The text of the International Standard has been approved as suitable for publication as a British Standard without deviation. Some terminology and certain conventions are not identical with those used in British Standards; attention is drawn especially to the following.

The comma has been used as a decimal marker. In British Standards it is current practice to use a full point on the baseline as the decimal marker.

Wherever the words “International Standard” appear, referring to this standard, they should be read as “British Standard”.

Cross-references

International Standard	Corresponding British Standard
ISO 273:1979	BS 4186:1984 <i>Specification for clearance holes for metric bolts and screws</i> (Identical)
ISO/R 286:1962	BS 4500 <i>ISO limits and fits</i> Part 1:1969 <i>General, tolerances and deviations</i> (Technically equivalent)
ISO 6899:1984	BS 4656 <i>Accuracy of machine tools and methods of test</i> Part 34:1985 <i>Specification for power presses, mechanical open front type</i> (Identical)

A related British Standard to ISO 299 is BS 2485:1973 “*Tee slots, tee bolts, tee nuts and tenons*”, to which reference may be made where ISO 299 is referred to in note 7 to the table.

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, pages 1 to 8, an inside back cover and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

1 Scope and field of application

This International Standard specifies capacity ratings and dimensions for open front mechanical presses with or without a passage through the frame and with or without a slope, in the range from 100 to 2 500 kN inclusive.

A choice of two values is given for some dimensions: these are designated series 1 and series 2. To minimize the variety of dimensions as far as possible it is intended that all the values for a given press should be selected from one of the series. However, in order to meet special requirements it is permitted to select the values for shut height only from either series 1 or series 2.

This International Standard provides for alternative types of bed, one with a round opening and the other a rectangular opening. The bed with the round opening has T-slots provided so that it can be used without a bedplate if required.

Two types of bedplate are specified as type 1 and type 2. Details are also given for the bedplug for beds with round holes and for the bedplate ring for bedplates of type 2.

2 References

ISO 273, *Fasteners — Clearance holes for bolts and screws*.

ISO/R 286, *ISO system of limits and fits — Part 1: General, tolerances and deviations*.

ISO 299, *Machine tool tables — T-slots and corresponding bolts*.

ISO 6899, *Acceptance conditions of open front mechanical power presses — Testing of the accuracy*.

3 Dimensions

NOTE a) and b) are alternative standards.