

ANSI/SPI B151.7-1996

American National Standard

*for Plastics Machinery –
Plastics Extrusion Machines –
Requirements for the Manufacture,
Care, and Use*



American National Standards Institute

11 West 42nd Street
New York, New York
10036

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Revision and redesignation of
ANSI B151.7-1982 (R1988)

American National Standard
for Plastics Machinery –

**Plastics Extrusion Machines –
Requirements for the Manufacture,
Care, and Use**

Sponsor

The Society of the Plastics Industry, Inc.

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American National Standards Institute, Inc.

American National Standard

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Foreword (This foreword is not part of American National Standard ANSI/SPI B151.7-1996.)

This standard is a revision and redesignation of *American National Standard for Plastics Machinery and Rubber Machinery – Extrusion Machines – Construction, Care, and Use*, ANSI B151.7-1982. The standard was revised because:

- the scope needed to be expanded and the title modified;
- some illustrations required modification to conform to the text and some illustrations were deleted to permit design freedom;
- additional definitions were required;
- some paragraphs required modification and some paragraphs were added to conform more closely to changes in technology;
- some paragraphs required modification for clarity and intent.

A standard treating the manufacture, care, and use of extrusion machines is complicated by the wide variety and sizes of machines manufactured and in use, and by the virtually infinite combinations of parts being produced, production methods being used, and operating conditions existing in industry today.

The primary objective of this standard is to minimize hazards to personnel associated with machine activity by establishing requirements for the manufacture, care, and use of these machines. To accomplish this objective, a decision was made to approach the problem of machine safety from three different directions:

- a) The elimination, by design, of certain recognized hazards and the establishment of standard approaches to design so that machines available from competitive manufacturers will have similar operational characteristics;
- b) Where recognized hazards cannot be designed out for technical or operational reasons, then safeguarding the machine to protect the operator from recognized hazards;
- c) Where elimination or safeguarding of hazards is not technically or operationally feasible, providing appropriate warnings.

To assist in the interpretation of these requirements, responsibilities have been assigned to the manufacturer, re-manufacturer, modifier, and the employer.

Recognizing the impossibility of updating equipment and changing operation methods allied with existing machines immediately after approval date of this standard, a 3-year period has been provided to employers for updating machines.

Also, recognizing the impossibility of immediate updating of design and manufacturing methods, clauses 5 and 7 shall become effective one year after the approval date of this standard.

Suggestions for improvement of this standard will be welcome. They should be sent to The Society of the Plastics Industry, Inc., Machinery Division, Attention: Walt Bishop, 1801 K Street, NW, Suite 600, Washington, DC 20006.

Evidence of consensus on this standard was secured by use of the Canvass Method.

The following organizations recognized as having an interest in the standardization of plastics extrusion machines were contacted prior to the approval of this standard. Inclusion on this list does not necessarily imply that the organization concurred with the submittal of the proposed standard to ANSI.

Aerospace Industries Association
Alliance of American Insurers
American Automobile Manufacturers Association
American Insurance Services Group
American Standards Testing Bureau
Factory Mutual Research
Industrial Safety Equipment Association
Masonry and Concrete Saw Manufacturers Institute
National Institute of Standards & Technology
Robotic Industries Association
Rubber Manufacturers
Society of the Plastics Industry – Machinery Manufacturers Division
Society of the Plastics Industry – Molders Division

The Society of the Plastics Industry Extrusion Section – Standards Development Committee on Machinery Standards, which was responsible for developing this standard, had the following members:

Donn Lounsbury, Chairman
(Davis-Standard Corp.)

Bob Monteith
(Cincinnati Milacron)
James Nissel
(Welex)
John Rexford
(HPM Corporation)
John Schultz
(Macro Engineering)
Bill Wybenga
(Brampton Engineering)

Explanation of Standard Format

This standard uses a two-column format to provide both specific requirements and supporting information.

The left column, designated "Standard Requirements," is confined solely to these requirements and is printed in bold type. Where supporting photographs or sketches are required, they are designated as "figures."

The right column, designated "Explanatory Information," contains only information that is intended to clarify the standard. This column is not part of the standard. Where supplementary photographs or sketches are required, they are designated as "Illustrations."

Operating rules (safe practices) are not included in either column unless they are of such a nature as to be vital safety requirements that are equal in weight to other requirements, or unless they are guides to assist in compliance with the standard.

American National Standard
for Plastics Machinery –

Plastics Extrusion Machines – Requirements for the Manufacture, Care, and Use

STANDARD REQUIREMENTS

EXPLANATORY INFORMATION

(Not part of *American National Standard for Plastics machinery – Plastics Extrusion Machines – Requirements for the manufacture, care, and use*, ANSI/SPI B151.7-1996)

1 Scope, purpose, and application

1.1 Scope

The requirements of this standard shall apply to extrusion machines that are used in the plastics industries.

Safety requirements of ancillary equipment used with extrusion machines are not covered by this standard.

1.2 Purpose

The purpose of this standard is to minimize the hazards to personnel working on or adjacent to extrusion machines.

1.3 Application

1.3.1 New installations

The requirements of this standard pertaining to manufacture shall apply to all new or remanufactured extrusion machines installed in the United States of America. Date of shipment (month and year) shall be affixed permanently and legibly to the machine along with the name of the manufacturer or remanufacturer. Compliance shall be achieved within one year of the approval date of this standard.

1.3.2 Existing installations

The employer is responsible for bringing existing machines into compliance with the

E1.1 Scope

Inquiries with respect to the application or the substantive requirements of the standard should be addressed to the Society of the Plastics Industry, Inc., 1801 K Street, NW, Suite 600, Washington, DC 20006.