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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 8176-1997

Replacing GB/T 8176-1997

**Safety production codes for presswork
(English Translation)**

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Foreword

This standard Chapter 4, Section 5, Chapter 7, Chapter 8 is mandatory, the rest are recommended.

This standard was drafted in accordance with rules GB/T 1.1-2009 given.

This standard replaces GB/T 8716-1997 "General stamping plant safety in production," compared with the GB/T 8716-1997, in addition to editorial repair External change, the main technical changes are as follows.

--- modify this standard English name (see cover, see the 1997 version of the cover);

--- modify the "Normative references" (see Chapter 2, 1997 edition of Chapter 2);

- the operating environment and conditions, layout, device, mechanized equipment and safety devices, as well as to the safe operation of mandatory terms (See Chapter 4,5,7,8, 4,5,7,8 Chapter 1997 edition);
- modify the layout requirements (see Chapter 5, Section 5 of the 1997 edition);
- increase the safety distance requirements cranes (see 5.3.2);
- modify the tonnage band related to large, medium and small presses (see 5.2, 1997 edition of 5.1.8).

This standard is proposed and managed by the National Forging Standardization Technical Committee (SAC/TC74).

This standard was drafted. Mechanical Design and Research Institute Industrial IX.

1 Scope

This standard specifies the general method of cold metal stamping plant production safety requirements and guidelines. In terms of personal protection, this standard both workers Health content industry, provides the production environment and conditions in line with labor hygiene, protection of human health of workers.

This standard applies to all enterprises of the new cold stamping plant design, transformation of the original cold stamping plant, construction and installation, and acceptance in the real Shi security technology and management during production.

2 Normative references

The following documents for the application of this document is essential. For dated references, only applies to the version dated paper Pieces. For undated references, the latest edition (including any amendments) applies to this document.

GB 2893 Safety colors GB 2894 Guidelines for the use and safety signs GB 4584 presses technical conditions photoelectric protector GB 5083 production equipment with safety and health General Presses GB 5091 Safety requirements for technical means GB 5092 presses induction type safety device GB 6077 Safety regulations for shearing machinery GB/T 6441 enterprise workers casualty classification GB/T 8196 mechanical safety of fixed and movable guards General requirements for design and manufacture GB 12801 General production process safety and health requirements GB/T 13379 Principles of visual ergonomics indoor workplace lighting GB/T 13441.1 Mechanical vibration and shock to a human body exposed to vibrations Evaluation Part 1. General Requirements GB 13495 fire safety signs GB/T 13547 body size work space GB 13887-2008 cold stamping Safety Regulations GB/T 14774 work seat General ergonomics requirements GB/T 14776 Ergonomic design principles job size and value GB 17120 Forging Machinery Safety requirements GB 24388 bending machine noise limits GB 24389 shear mechanical noise

limits GB/T 25295 Electrical Safety device design guidelines GB 50019 heating ventilation and air conditioning design GB 50033-2001 architectural lighting design standards GB 50034 Architectural lighting design standards GB 50037 Design Code of building ground GB 50040 dynamic machine foundation design specifications GB 50231 mechanical equipment installation construction and acceptance of universal norms GB Z1 industrial enterprises to design health standards GB J87 industrial enterprises noise control design specifications JB/T 2960 stacker crane type and data base JB3350 mechanical press safety requirements JB3915 Safety requirements for hydraulic press JB/T 5062 General information display apparatus ergonomic requirements JB/T 6056 stamping plant Protection Guidelines JB9962-1999 ironworker Safety requirements

3 Terms and Definitions

The following terms and definitions apply to this document.

Factory works; factory Using a press punching or stamping assembly zero (portion) member of the production units, the term "plant" in the present standard, has a specific meaning, companies may refer to who is responsible for the overall industry, but also an enterprise in a department responsible for personnel.

Shop shop; workshop

A part of the plant, the term "plant" in the present standard, refers use of mechanical pressure, the implementation of this standard should production cells, it may be is an independent energy plant (factory), it may be the workshop (Industry or section).

Process equipment layout layoutofmanufacturingequipment Drag the presses and other auxiliary equipment and production according to the production process and regional organizations are arranged.

Station positionofwork the operator work space occupied range.

Digital equipment instrumentsofposition Appliances and services for the station, A carrier blank workpiece or rack waste, material platform, and bin trays.

Operator

Finger presses and other production workers to operate or auxiliary equipment, refers to production workers.

Helper

Refers to assistance or help the operator to carry out the work of the workers.

Punching station stampingworker Press operation (except shears) and complete the stamping process workers.

Shearing station shearingworker and complete the operation of shears workers blanking

step.

3.10

Operating danger zone point of operation the operator may be harmed region of operation, this means that installation of the die area (or the shearing blade) in the press, is placed on the the material is cut, press molding, or assembly, and other parts of the processing area.

3.11

Clamping point pinch point Press means or the auxiliary means between moving parts, or moving parts and the fixing member presses the auxiliary device or material and the press Regional forces between the moving parts of the machine or the auxiliary means. At any point within the region of the human body or any part of the body There may be pinched or crushed and hurt, but the nature of the injury is different from the operation of the danger zone.

3.12

workplane face

Suppose the main plane or work operation is completed actually exist, the general height from the ground 800mm.

3.13

Mold storage area die area Storage, keeping the die area, and fixtures aids.

3.14

Material storage areas raw material area Storage, keeping the steel sheet, coil, profiles and other areas of metals and non-metallic materials.

3.15

Stamping parts storage area stamping parts area Storing, in a storage area or stamping the finished article.

4.1 General requirements

The facility should create and provide physical and psychological well as the operator's working environment, i.e. workshop temperature, ventilation, illumination, vibration and noise Sound, etc. shall comply with the requirements of labor health.

4.2 Temperature

4.2.1

workshop in the workplace air temperature shall be in accordance with the relevant provisions of GB Z1.