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**NATIONAL STANDARD OF THE  
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**Noise limits of mechanical presses**

机械压力机 噪声限值

**(English Translation)**

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## Table of Contents

- Foreword
- 1 Scope
- 2 Normative references
- 3 Noise limits
  - 3.1 Noise limit open press
  - 3.2 Noise limits Closed Press
  - 3.3 Noise limit screw press
- 4 Measurement
  - 4.1 Noise level measurement method
  - 4.2 Sound power level measurement
  - 4.4 Noise Measurement Description

### Foreword

3.1.2,3.1.3,3.2.2,3.3.2 this standard is mandatory, the rest are recommended.

Accordance with the standards GB/T 1.1-2009. Drafting Rules "Standardization Guide Part 1 standard structure and preparation of" given.

The standard proposed by China Machinery Industry Federation.

This standard by the National Forging Machinery Standardization Technical Committee (SAC/TC220) centralized.

This standard was drafted. Jinan Machine Tool Group Co., Ltd., Jinan Foundry and Metalforming Machinery Research Institute Co., Ltd., Qingdao Green forging press Mechanical Co., Ltd., Jiangsu Yang Li Group Co., Ltd.

### 1 Scope

This standard specifies the mechanical press sound power level and sound pressure level of the noise limits.

This standard applies to mechanical presses, including various types of open press, closed presses and screw presses.

## 2 Normative references

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

GB/T 23281 Forging Machinery noise level measurement method GB/T 23282 forging machinery noise power level measurement

### 3.1.1 Open press the sound power level limits

Noise A-weighted sound power level LWA limit open press continuous idling time should not exceed specified in Table 1.

Table 1

Nominal power/kN limit sound power level LWA/dB (A)  $\leq 160$  80 > 160 ~ 25 090 > 250 to 63095 > 630 100

### 3.1.2 Open press the noise level limits

Open press in continuous idling noise A-weighted sound pressure levels prescribed position limits  $L_{pA}$  shall not exceed the provisions of Table 2.

Table 2

Nominal power/kN SPL limit  $L_{pA}$ /dB (A)  $\leq 160$  70 > 160 ~ 25 080 > 250 to 63085 > 63088

### 3.1.3 Open press impulse noise limits SPL

When open press load in a single stroke impulse noise A-weighted sound pressure levels prescribed position shall not exceed the limits specified in Table  $L_{pAI}$  3.

table 3

Nominal power/kN pulse SPL limit  $L_{pAI}$ /dB (A)  $\leq 250$  93 > 250 to 63095 > 63099

### 3.2.1 Closed Press the sound power level limits

Noise A-weighted sound power level LWA limits Closed Press continuous idling time should not exceed specified in Table 4.

Table 4

Nominal power/kN limit sound power level LWA/dB (A)  $\leq 2500$  110 > 2500 ~ 6300115 > 6300120

3.2.2 The noise level limits Closed Press Closed Press continuous idling noise A-weighted sound pressure levels prescribed position limits  $L_{pA}$  shall not exceed the provisions of

Table 5.

table 5

Nominal power/kN SPL limit LpA/dB (A) ≤2500 85 > 2500 - 630 086 > 630 087

### 3.3.1 Screw press sound power level limits

Screw press at a predetermined operating condition of noise A-weighted sound power level LWA shall not exceed the limits specified in Table 6.

Table 6

Nominal power/kN limit sound power level LWA/dB (A) ≤1000 92 > 1000 to 160 094

Table 6 (Continued)

Nominal power/kN limit sound power level LWA/dB (A) > 1600 - 315 098 > 3150 ~ 6300101  
> 6300110

### 3.3.2 Screw press noise level limits

Screw press when the conditions required to operate at a predetermined position of the A-weighted noise pressure level LpA shall not exceed the limits specified in Table 7.

Table 7

Nominal power/kN SPL limit LpA/dB (A) ≤1000 76 > 1000 to 160 080 > 1600 - 315 082 > 3150 ~ 630 085 > 630 090

## 4.1 Noise level measurement method

Noise level measurement method mechanical presses shall comply with GB/T 23281 of.

## 4.2 Sound power level measurement

Sound power level measurement of mechanical presses shall comply with GB/T 23282 of.

Measurement conditions 4.3 screw press Noise Screw press operation when used as prescribed norms, the noise should be measured from the lowest position during the upward movement of the slider.

## 4.4 Noise Measurement Description

### 4.4.1

factory test only measures the noise level.

#### **4.4.2**

The new design or improve the design, technology, materials, new products after the noise level should be measured during the performance test; can then measure the noise Sound power level to the noise level of conformity assessment basis.