

Standard dimensions of stamping holes in distribution boxes



Overview

Design holes or slots less than 0.100" in diameter or width at a distance of at least twice the material thickness ($2 \times MT$) plus the radius of the form. Package designers use hand holes to solve ergonomic and handling problems associated with large or awkward containers. Boxes that are too large or awkward to be handled well by a person. From the specifics of hole and slot dimensions to the subtleties of bends and forms, we will cover the crucial aspects that every professional in the metal stamping industry should know. With large or awkward boxes, placing hand holes is not generally specified by safety organizations. However, when considerations of repetition, movement, and other ergonomics are taken into account, a typical maximum load per lifting with. 1. 2 Limitations—This standard offers guidance for package development and for subsequent testing of boxes to measure performance. In this guide, we share comprehensive insights and best practices to help you design stamped parts that maximize manufacturability, repeatability. In metal stamping, holes and slots get formed via piercing techniques that use steel tools called punches. As the material begins to yield to the forces, the punch cuts through and shears the material.



Article Content

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Handle with Care: Corrugated Packaging Standards

Hand hole size and shape: As previously mentioned, hand holes weaken a box due to the materials that are removed from the board. The size and shape of the hand

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Handbook PO-632

Post Office personnel do not distribute mail into apartment-type mailboxes for dormitories or residence halls. As always, it is important to contact your local USPS Growth Manager early in the planning

Jan 02, 2026

Standard Guide for Hand Hole Design in Corrugated Boxes¹

1.1 This standard provides guidelines for designing pre-cut apertures intended for use as hand holes in corrugated boxes during manual handling of boxed cargo.

1.2 Limitations—This standard offers

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Metal Stamping Design Guide: Material, Tolerances

Dimension holes at the smallest/sheared diameter. Dimension outside features at the largest/sheared portion. Use shaving operations for straight

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Metal Stamping Design Standards and Considerations

Design holes or slots less than 0.100" in diameter or width at a distance of at least twice the material thickness (2x MT) plus the radius of the

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Stamp Holes in PCB Fabrication: Design Standards, Applications, and ...

stamp holes in PCB fabrication: non-metallized holes (1.0mm diameter, 1.27mm spacing) recessed 0.4mm from edges. Covering types like half-holes and edge-tangent holes, it explains their

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Cautions and Requirements for Installation of

Distribution box is a low-voltage distribution device which assembles switchgear, measuring instruments, protective appliances and auxiliary equipment in a closed

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Standard Guide for Hand Hole Design in Corrugated Boxes

4.3.2.1 Pushing or pulling by hand holes can weaken the box sidewall and thus reduce compression resistance at the time of damage and reduce the expected time a box can survive

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Design Guidelines – Metal Stamping and Assembly-Res

KEY METAL FORMING DESIGN GUIDELINES Res Manufacturing engineered stamping solutions takes every possible step to ensure your metal stamped

Oct 10, 2025

"ASTM D6804:2024 Guide for Corrugated Box Hand Holes"

Optimize corrugated box design with ASTM D6804: 2024. This guide offers essential guidelines for hand hole creation and performance testing.

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DESIGN GUIDES TO BETTER STAMPINGS

As a suggestion, if the web is too narrow, the profile of the blank could be changed by adding an ear of sufficient dimensions and shape to eliminate the problem.

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Typical dimensions and tolerances for stamped

Below are dimensions and tolerances typical of stamped metal components. Of course, exceptions apply. The tolerances shown are well suited

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Metal Stamping Design Standards and Guidelines

From the specifics of hole and slot dimensions to the subtleties of bends and forms, we will cover the crucial aspects that every professional in the

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DISTRIBUTION BOXES

DISTRIBUTION BOX INSTALLATION INSTRUCTIONS AND SPECIFICATIONS: Provide high-density polyethylene drop or distribution box with holes punched suitable to receive locking seals. The box

Sep 27, 2025

PowerPoint Presentation

Bend line to edge of hole - $1 \frac{1}{2}$ x material thickness (holes closer require extra operations at extra cost) Class A & B holes require the tolerance to be held through the entire hole. This will require additional

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THE DESIGNER'S GUIDE TO PRECISION METAL STAMPING

The basics of metal stampings. Precision metal stampings are produced by converting flat metal sheet or coil into engineered component parts for manufacturers. Parts can be flat and simple or complex

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Wrico Design Guides

Wrico's skilled Tool Makers and Engineers assist you in developing an appropriated part design by using CAD systems, special punches, dies, and existing fixtures from our extensive stock tool library. This

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Metal Stamping Design Standards and Considerations

An overview of the top considerations to make and standards to follow when designing parts for the metal stamping manufacturing process.

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ASTM International

1.1 This standard provides guidelines for designing pre-cut apertures intended for use as hand holes in corrugated boxes during manual handling of boxed cargo. 1.2 Limitations-This

Jul 23, 2025

Size determination, installation method and wiring mode

The distribution box is the central hub of the home circuit and the general control of our daily power consumption. It is an indispensable electrical equipment. If there

Jun 03, 2026

Metal Stamping Design Guide: Material, Tolerances

Metal stamping is a cost-effective method for manufacturing durable, high-strength, wear-resistant components with stable and consistent

Feb 21, 2026

TECHNICAL SPECIFICATION I.R.O. 63,100,160 & 315 KVA

Distribution Boxes shall have Isolator (Switch Disconnecter) on incoming circuit and Porcelain CUTOUT fuse base disconnecter on outgoing circuits with necessary interconnecting Bus Bars.

Apr 24, 2026

Ask the Stamping Expert: Five essential stamping rules

Over the years I have received many requests from readers asking for suggestions and advice for particularly challenging stamping applications. Some

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Metal Stamping Design Guidelines

Metal Stamping Design Guidelines Metal Stamping provides an economical way to produce quantities of parts that can possess many qualities, including strength, durability, wear

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A Comprehensive Guide to Creating Castellated Holes

Castellated holes (stamp holes) are a valuable PCB design feature for modular electronics, enabling easy board-to-board soldering. Proper design,

Oct 08, 2025

Requirements And Specifications For Installation Of

In flammable and explosive environments, explosion-proof distribution boxes should be selected and explosion-proof treatment should be carried out.

Jul 26, 2025

PowerPoint Presentation

1.1: Purpose The purpose of these guidelines is to establish an acceptable die design standard to ensure the use of common purchased components and design methodology. The intent of this

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://moletenare-ew.co.za>

Email: info@moletenare-ew.co.za

Phone: +86 138 1658 3346

Address: Ningbo, China

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