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ATD 729

ATD Tools 729 29-Piece Punch and Chisel Set User Manual

Model: 729 | Brand: ATD

1. PRODUCT OVERVIEW

The ATD Tools 729 is a comprehensive 29-piece punch and chisel set designed for a variety of applications. This set is crafted from high-quality chrome vanadium steel, ensuring durability and performance. Each tool is hardened and tempered to resist splitting and mushrooming, providing reliable use for demanding tasks.



Figure 1: The ATD Tools 729 29-Piece Punch and Chisel Set. The image displays the tools neatly organized within a blue roll-up storage pouch, with various punches and chisels visible, each labeled with its size.

Key Features:

- Comprehensive 29-piece set for diverse applications.
- Constructed from high-quality chrome vanadium steel for enhanced durability.
- Each punch is hardened and tempered for maximum resilience.
- Flat chisels are specifically tempered to resist splitting and mushrooming.
- Includes a convenient roll-up storage pouch for organization and portability.

2. SET CONTENTS

The ATD Tools 729 set includes the following 29 pieces:

Pin Punches (7 pieces):

- 3/32 inch
- 1/8 inch
- 5/32 inch
- 3/16 inch

- 1/4 inch
- 5/16 inch
- 3/8 inch

Starter Punches (6 pieces):

- 3/32 inch
- 1/8 inch
- 5/32 inch
- 3/16 inch
- 1/4 inch
- 5/16 inch

Center Punches (4 pieces):

- 1/4 inch
- 5/16 inch
- 3/8 inch
- 1/2 inch

Flat Chisels (7 pieces):

- 1/4 inch
- 5/16 inch
- 3/8 inch
- 1/2 inch
- 5/8 inch
- 3/4 inch
- 7/8 inch

Cape Chisels (2 pieces):

- 1/4 inch
- 5/16 inch

Half-Round Nose Chisel (1 piece):

- 5/16 inch

Diamond Point Chisels (2 pieces):

- 5/16 inch
- 3/8 inch

3. SETUP

The ATD Tools 729 Punch and Chisel Set requires minimal setup. Upon receiving the product, follow these steps:

1. **Unpack:** Carefully remove the roll-up storage pouch from its packaging.

2. **Inspect:** Unroll the pouch and visually inspect all 29 pieces for any signs of shipping damage or manufacturing defects. Ensure all tools are present as listed in Section 2.
3. **Familiarize:** Take a moment to familiarize yourself with the different types and sizes of punches and chisels. The pouch is designed to keep them organized by type and size.

4. OPERATING INSTRUCTIONS

Always prioritize safety when using hand tools. Wear appropriate personal protective equipment (PPE), including safety glasses, gloves, and hearing protection, especially when striking tools with a hammer.

General Usage Guidelines:

- **Select the Correct Tool:** Choose the appropriate punch or chisel size and type for the task at hand. Using an undersized or oversized tool can lead to damage to the tool or workpiece.
- **Secure Workpiece:** Always secure the material you are working on to prevent movement during operation. Use a vise or clamps if necessary.
- **Proper Striking:** Use a hammer of appropriate weight and type. Strike the head of the punch or chisel squarely and firmly. Avoid glancing blows, which can cause the hammer to slip or damage the tool head.
- **Material Compatibility:** These tools are designed for working with various metals and other materials. Ensure the material's hardness is suitable for the tool to prevent premature wear or damage.

Specific Tool Applications:

- **Pin Punches:** Used for driving out or inserting solid pins, dowels, or rivets. Ensure the punch tip is slightly smaller than the pin being driven.
- **Starter Punches:** Heavier duty than pin punches, used to loosen tight or rusted pins before using a pin punch.
- **Center Punches:** Used to create a small indentation in metal or other materials, serving as a starting point for drilling to prevent the drill bit from wandering.
- **Flat Chisels:** Primarily used for cutting, shaping, or removing excess material from metal, stone, or concrete. Hold the chisel at the correct angle for the desired cut.
- **Cape Chisels:** Used for cutting narrow grooves or channels, often in keyways or for cleaning out corners.
- **Half-Round Nose Chisels:** Designed for cutting curved grooves or channels.
- **Diamond Point Chisels:** Used for cutting V-shaped grooves or for cleaning out square corners.

5. MAINTENANCE

Proper maintenance extends the life and performance of your ATD Tools 729 set.

- **Cleaning:** After each use, wipe down tools to remove dirt, grease, and debris. A light coat of oil can be applied to prevent rust, especially in humid environments.
- **Storage:** Always store the tools in the provided roll-up pouch. This protects them from damage, keeps them organized, and prevents loss. Store in a dry environment.
- **Inspection:** Regularly inspect the striking ends of punches and chisels for mushrooming or chipping. If mushrooming occurs, grind the head back to its original shape, ensuring the edges are slightly chamfered to prevent further mushrooming. Replace any severely chipped or bent tools.
- **Sharpening (Chisels):** Chisels may require occasional sharpening to maintain their cutting edge. Use a grinding wheel or file, ensuring the original bevel angle is maintained. Cool the chisel frequently to prevent overheating, which can affect the temper of the steel.

6. TROUBLESHOOTING

Most issues with punches and chisels relate to improper use or wear. Adhering to the operating and maintenance guidelines will prevent most problems.

- **Tool Head Mushrooming:** This occurs when the striking end of the tool deforms from repeated hammer blows. This is normal wear but can be dangerous if pieces break off. *Solution:* Reshape the head by grinding, as described in the Maintenance section.
- **Chisel Edge Dullness:** The cutting edge becomes less effective over time. *Solution:* Sharpen the chisel as described in the Maintenance section.
- **Tool Bending or Breaking:** This usually indicates the tool was used on material too hard for its design, or excessive force was applied. *Solution:* Ensure you are using the correct tool for the material and task. Replace bent or broken tools immediately.
- **Rust Formation:** Occurs due to exposure to moisture. *Solution:* Clean and apply a light coat of rust-preventative oil after each use, and store in a dry environment.

7. SPECIFICATIONS

Specification	Detail
Brand	ATD
Model Number	729
Item Weight	5 pounds
Product Dimensions	9.2" L x 4.2" W
Handle Material	Alloy Steel
Blade Material	Chromium-Vanadium Steel
Blade Edge	Pointed
UPC	100069429825, 663126007294

8. WARRANTY AND SUPPORT

For detailed information regarding the warranty coverage for your ATD Tools 729 29-Piece Punch and Chisel Set, please refer to the official documentation provided with your purchase or visit the ATD Tools official website. Warranty terms typically cover manufacturing defects and material flaws under normal use.

For technical support, replacement parts, or any inquiries not covered in this manual, please contact ATD Tools customer service directly. Contact information can usually be found on the product packaging or the manufacturer's website.