

Hyper Tough 90-Piece Cutting Set

HYPER TOUGH 90-Piece Cutting Set for Rotary Tools Instruction Manual

Model: 90-Piece Cutting Set | Brand: Hyper Tough

1. INTRODUCTION

Thank you for choosing the Hyper Tough 90-Piece Cutting Set. This accessory kit is designed for use with most standard rotary tools, providing a versatile range of cutting solutions for various materials. This manual provides essential information for the safe and effective use of your cutting set. Please read it thoroughly before operation and retain it for future reference.



Image 1: The Hyper Tough 90-Piece Cutting Set in its compact, clear storage case.

2. SAFETY INFORMATION

Always prioritize safety when using rotary tools and cutting accessories. Failure to follow these safety guidelines may result in serious injury.

- **Wear Personal Protective Equipment (PPE):** Always wear safety glasses or goggles, hearing protection, and a dust mask or respirator. Gloves are recommended for handling materials.
- **Read Rotary Tool Manual:** Refer to your rotary tool's instruction manual for specific safety warnings and operating procedures.
- **Inspect Accessories:** Before each use, inspect cutting wheels and mandrels for damage, cracks, or wear. Do not use damaged accessories.
- **Secure Workpiece:** Always secure the material you are cutting with clamps or a vise to prevent movement during operation.
- **Proper Speed:** Do not exceed the maximum RPM specified for each accessory. Operating at excessive speeds can cause accessories to break or shatter.

- **Direction of Cut:** Cut away from your body. Maintain a firm grip on the rotary tool.
- **Ventilation:** Work in a well-ventilated area, especially when cutting materials that produce dust or fumes.
- **Unplug Tool:** Always unplug the rotary tool before changing accessories or performing maintenance.
- **Storage:** Store accessories in their designated case in a dry, secure location, out of reach of children.

3. PACKAGE CONTENTS

The Hyper Tough 90-Piece Cutting Set includes the following components, neatly organized in a clear storage box:



Image 2: The back of the storage case detailing the included components.

- 1 x 7/8-inch Diamond Wheel (Max Speed 20,000 RPM)
- 1 x 7/8-inch Steel Saw Blade (Max Speed 20,000 RPM)
- 18 x 1-1/4-inch Fiberglass Reinforced Cut-Off Wheels (Max Speed 30,000 RPM)
- 2 x 1-1/4-inch Cut-Off Wheels (Max Speed 20,000 RPM)
- 36 x Cut-Off Wheels 24 x 0.8 mm (Max Speed 20,000 RPM)

- 30 x Cut-Off Wheels 24 x 0.8 mm (Max Speed 20,000 RPM)
- 2 x 1/8-inch Mandrels (Max Speed 32,000 RPM)



Image 3: All 90 pieces of the cutting set, including various wheels and mandrels.

4. SETUP

This section describes how to properly attach the cutting accessories to your rotary tool.

1. **Select Mandrel:** Choose one of the two 1/8-inch mandrels provided.
2. **Attach Cutting Wheel:** For most cut-off wheels and the diamond wheel, there is a small screw on the mandrel. Unscrew it, place the desired cutting wheel onto the mandrel, and then re-tighten the screw securely. Ensure the wheel is centered and firmly held.

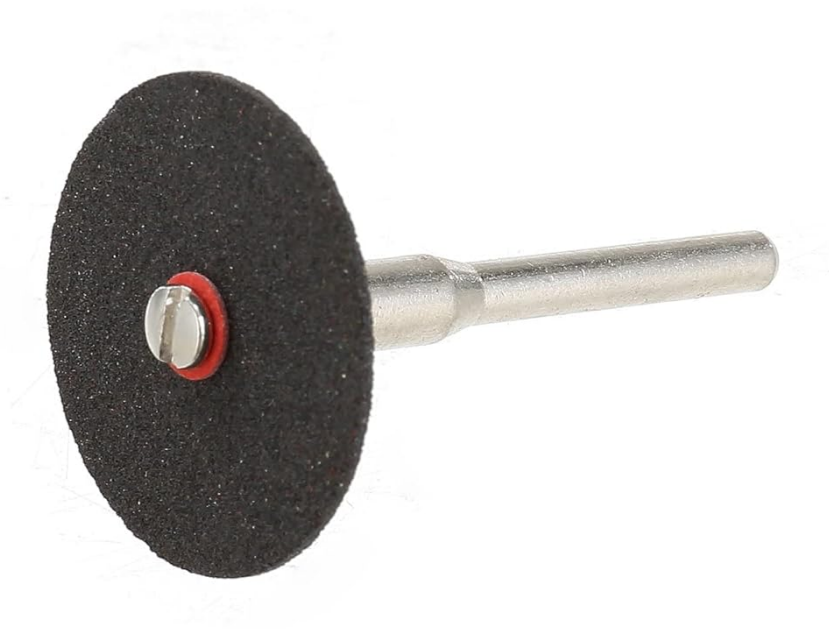


Image 4: A cut-off wheel securely attached to a mandrel.

3. **Insert into Rotary Tool:** Loosen the collet nut on your rotary tool. Insert the 1/8-inch shank of the assembled mandrel and cutting wheel into the collet.
4. **Tighten Collet:** Hand-tighten the collet nut, then use the collet wrench (typically supplied with your rotary tool) to fully tighten it. Ensure the accessory is firmly secured and does not wobble.
5. **Test Run:** Before cutting, briefly turn on the rotary tool at a low speed to ensure the accessory runs true and is properly balanced. If there is excessive vibration or wobble, re-check the attachment.

5. OPERATING INSTRUCTIONS

Always follow the safety guidelines in Section 2. Select the appropriate cutting wheel for your material and task.

5.1 General Cutting Techniques

- **Light Pressure:** Allow the cutting wheel to do the work. Excessive pressure can cause the wheel to bind, break, or overheat.
- **Consistent Speed:** Maintain a consistent rotary tool speed appropriate for the material and accessory.

- **Multiple Passes:** For thicker materials, make several shallow passes rather than one deep cut.
- **Cooling:** For metal cutting, consider using cutting oil or allowing the material and wheel to cool periodically to prevent overheating.

5.2 Specific Wheel Applications

Cut-Off Wheels (Fiberglass Reinforced, Standard, Heavy Duty):

- Ideal for cutting, slotting, and trimming various materials including metal, wood, and plastic.
- Fiberglass reinforced wheels offer increased durability for tougher applications.
- Use the edge of the wheel for cutting. Do not use the flat side for grinding, as this can cause the wheel to shatter.



Image 5: Using a cut-off wheel to cut a metal pipe.



Image 6: A cut-off wheel being used to cut wood.

Steel Saw Blade:

- Suitable for cutting wood, plastic, and soft metals.
- Use with caution and ensure the workpiece is firmly secured.



Image 7: The steel saw blade cutting into a wooden block.

Diamond Wheel:

- Designed for cutting harder materials such as ceramic, tile, stone, and glass.
- Often requires water for cooling when cutting very hard materials to prolong wheel life and reduce dust.



Image 8: The diamond wheel cutting into a wooden block.

6. MAINTENANCE

Proper maintenance ensures the longevity and performance of your cutting accessories.

- **Cleaning:** After each use, clean any dust or debris from the cutting wheels and mandrels. A soft brush or compressed air can be used.
- **Inspection:** Regularly inspect all accessories for signs of wear, cracks, or damage. Replace worn or damaged accessories immediately.
- **Storage:** Store the cutting set in its original clear faced storage box. This protects the accessories from damage and keeps them organized. Store in a dry environment to prevent rust on metal components.

7. TROUBLESHOOTING

If you encounter issues during operation, consider the following:

- **Accessory Wobbles:** Ensure the mandrel is fully inserted into the rotary tool's collet and the collet nut is securely

tightened. Also, check that the cutting wheel is properly centered and tightened on the mandrel.

- **Slow Cutting/Overheating:** You may be applying too much pressure, or the accessory might be dull or incorrect for the material. Reduce pressure, check the accessory's condition, or select a different wheel type. Ensure the rotary tool speed is appropriate.
- **Excessive Dust/Sparks:** Ensure you are wearing appropriate PPE. This may indicate the material is too hard for the chosen accessory or the cutting technique needs adjustment.

8. SPECIFICATIONS


Product Name	90-Piece Cutting Set for Rotary Tools
Brand	Hyper Tough
ASIN	B09RGFHD7B
UPC	889526388188
Material	Ceramic (for some components), various other materials for wheels
Item Weight	0.22 Kilograms (0.47 lbs)
Shank Size	1/8-inch (for mandrels)
Package Dimensions	6.65 x 4.21 x 1.73 inches
Date First Available	January 28, 2022






9. WARRANTY AND SUPPORT

For more information or warranty inquiries regarding your Hyper Tough 90-Piece Cutting Set, please contact the Hyper Tough Call Center.

Hyper Tough Call Center: 1-833-908-2024

Related Documents - 90-Piece Cutting Set

 <p>HYPER TOUGH 1.5-AMP ROTARY TOOL WITH 105-PIECE ACCESSORY KIT INSTRUCTION MANUAL</p> <p>Electronic Version of this Manual Available on Walmart.com</p>	<p>Hyper Tough 1.5-Amp Rotary Tool with 105-Piece Accessory Kit Instruction Manual</p> <p>This manual provides comprehensive instructions for the safe operation, maintenance, and use of the Hyper Tough 1.5-Amp Rotary Tool with a 105-piece accessory kit. It covers safety guidelines, tool anatomy, electrical safety, personal safety, power tool use and care, specific safety rules for rotary tools, assembly, using accessories, maintenance, and warranty information.</p>
--	---

<div><div>Hyper Tough</div><div>8 VOLT MAX</div><div>LITHIUM-ION CORDLESS ROTARY TOOL</div><div>WITH 40PCS ACCESSORIES</div><div>INSTRUCTION MANUAL</div></div> <div></div> <div><small>Electronic Version of this Manual Available on Walmart.com *Voltage info listed on voltage decal on tool. © 2016. Hyper Tough Inc.</small></div>	<p>Hyper Tough 8.0V Max Cordless Rotary Tool Instruction Manual</p> <p>This manual provides comprehensive instructions for the Hyper Tough 8.0V Max Lithium-ion Cordless Rotary Tool, covering safety guidelines, operation, maintenance, accessory usage, and specifications. Learn how to safely operate and care for your rotary tool.</p>
<div><div>Parts Manual</div><div>Hyper Tough</div></div> <div></div> <div><small>© 2016 Hyper Tough Inc.</small></div>	<p>Hyper Tough 21" Walk Behind Mower Parts Manual</p> <p>Comprehensive parts manual for the Hyper Tough 21" Walk Behind Mower (Mfg. No: MNA152701), including detailed component breakdowns, part numbers, and torque specifications for various assemblies.</p>
<div><div>Hyper Tough</div><div>20 VOLT MAX</div><div>QUICK START GUIDE</div></div> <div></div> <div><small>Read all instructions carefully before using this tool. Failure to follow instructions may result in injury or death. © 2016 Hyper Tough Inc.</small></div>	<p>Hyper Tough HT19-401-003-11 20V Max Cordless Chain Saw Quick Start Guide</p> <p>Quick start guide for the Hyper Tough HT19-401-003-11 20V Max Cordless Chain Saw, covering charging, battery installation, assembly, and safe operation procedures.</p>
<div><div>Hyper Tough</div><div>1.5AMP DETAIL SANDER</div><div>INSTRUCTION MANUAL</div></div> <div></div> <div><small>Electronic Version of this Manual Available on Walmart.com</small></div>	<p>Hyper Tough 1.5AMP Detail Sander Instruction Manual</p> <p>Comprehensive instruction manual for the Hyper Tough 1.5AMP Detail Sander (Model AQ20021G), covering safety guidelines, operation, maintenance, specifications, and warranty information.</p>
<div><div>Hyper Tough</div><div>Code Reader</div></div> <div></div> <div><div>Operating Instructions</div><div>Safety Information</div><div>Features and Benefits</div></div> <div><small>The advanced technology in this device is designed to read and store OBD2 codes. Read only OBD2 codes to identify engine, transmission, and other vehicle problems. © 2016 Hyper Tough Inc.</small></div>	<p>HYPER TOUGH HT300 OBD2 Code Reader User Manual</p> <p>This comprehensive user manual provides operating instructions and safety information for the HYPER TOUGH HT300 OBD2 Code Reader. Learn to troubleshoot 1996 and newer OBD2 vehicles, decode 'Check Engine' light problems, retrieve generic and manufacturer-specific codes, and display Freeze Frame Data.</p>