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> VESSEL IMPACT BALL Torsion Bit Set with Mag Charge Holder (IBMG90K001) User Manual

VESSEL IBMG90K001

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Model: IBMG90K001

INTRODUCTION

Thank you for choosing the VESSEL IMPACT BALL Torsion Bit Set. This manual provides essential information for the safe and effective use, setup, and maintenance of your new bit set. Please read this manual thoroughly before use and retain it for future reference.

PRODUCT OVERVIEW

The VESSEL IMPACT BALL Torsion Bit Set (IBMG90K001) is designed for use with high-power impact drivers, featuring advanced torsion technology and a unique impact ball design for enhanced durability and performance. The set includes a convenient Mag Charge holder for magnetizing and demagnetizing bits.

Key Features:

- **Impact Ball Torsion Technology:** Engineered to absorb impact and reduce cam-out, extending bit life and improving fastening efficiency.
- **High Hardness (HRC62):** Manufactured from Voha special alloy steel with in-house optimum heat-treatment for exceptional durability.
- **Mag Charge Holder:** A 2-in-1 holder that allows for easy magnetization and demagnetization of bits by friction.
- **Versatile Bit Selection:** Includes Phillips (+1, +2, +3) and Slotted (#4 (3/16"), #6 (1/4")) bits.
- **Made in Japan:** Ensures high-quality manufacturing standards.





Image: The VESSEL IMPACT BALL Torsion Bit Set, showing the five bits securely held in the red Mag Charge holder.

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Image: Close-up view of the individual VESSEL Torsion Bits, displaying their Phillips and Slotted head types and size markings.

SETUP AND USAGE

Inserting Bits into Impact Driver:

1. Select the appropriate bit size and type for your fastener.
2. Insert the 1/4" hex shank of the bit firmly into the chuck of your impact driver until it locks into place.
3. Ensure the bit is securely seated before operating the impact driver.

Using the Mag Charge Holder:

The red holder included with your bit set functions as both a bit organizer and a magnetizer/demagnetizer.

- **To Magnetize:** Slide the bit through the opening marked with a '+' or 'Magnetize' symbol. The friction will magnetize the bit tip, helping to hold screws in place.
- **To Demagnetize:** Slide the bit through the opening marked with a '-' or 'Demagnetize' symbol. This will remove the magnetic charge from the bit tip.





Image: The red Mag Charge holder, which serves to organize the bits and also magnetize or demagnetize their tips.

OPERATING INSTRUCTIONS

These bits are specifically designed for impact drivers. Always wear appropriate personal protective equipment (PPE), including eye protection, when operating power tools.

1. Ensure the bit is correctly installed in your impact driver.
2. Align the bit tip with the fastener head. Apply firm, steady pressure to prevent cam-out.

3. Engage the impact driver. The IMPACT BALL torsion zone will flex to absorb impact, reducing stress on the bit and fastener.
4. Continue driving until the fastener is seated to the desired depth.

Impact Absorption Technology:

The unique design of VESSEL IMPACT BALL bits, combined with torsion technology, allows for superior impact absorption compared to standard bits. This minimizes damage to both the bit and the fastener, especially during high-torque applications.



Image: A diagram illustrating the difference in impact absorption between an IMPACT BALL bit and a conventional torsion bit, showing how the IMPACT BALL design distributes stress more effectively.



IMPACT BALL™

Image: A VESSEL bit actively driving a screw into a wooden surface using an impact driver, demonstrating typical usage.

MAINTENANCE

- **Cleaning:** After each use, wipe bits clean of any debris, dust, or metal shavings. A dry cloth is usually sufficient.
- **Storage:** Store the bits in their original Mag Charge holder or a suitable bit organizer to prevent loss and damage. Keep them in a dry environment to prevent rust.
- **Inspection:** Periodically inspect bits for signs of wear, such as rounded tips or cracks. Replace worn bits to ensure optimal performance and safety.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Bit cam-out or stripping fastener head	Incorrect bit size, insufficient pressure, or worn bit.	Ensure correct bit size for fastener. Apply firm, consistent pressure. Replace worn bits.
Bit not holding screws magnetically	Bit is demagnetized.	Use the 'Magnetize' section of the Mag Charge holder to re-magnetize the bit.

Problem	Possible Cause	Solution
Bit stuck in impact driver chuck	Debris in chuck or bit not fully released.	Clean chuck. Ensure chuck collar is fully pulled back to release bit.

SPECIFICATIONS

Model Number	IBMG90K001
Brand	VESSEL
Material	Voha Special Alloy Steel
Hardness	HRC62 (Highest Hardness)
Bit Types Included	Phillips (+1, +2, +3), Slotted (#4 (3/16"), #6 (1/4"))
Shank Style	1/4 inch Hex (Standard)
Item Length	3.5 Inches (90mm)
Item Weight	3.2 ounces (approx.)
Origin	Made in Japan

WARRANTY AND SUPPORT

This VESSEL product is covered by a manufacturer's warranty. For specific warranty details, claims, or technical support, please refer to the official VESSEL website or contact their customer service directly. Keep your purchase receipt as proof of purchase.

For more information, visit the [VESSEL Store on Amazon](#).

