

Huck® Range Force™  
Battery Tool by Makita®



# The Huck® Range Force™ Battery Tool

A Portable Powerhouse For Multiple Applications and Industries

Howmet Fastening Systems and Makita® bring you industry-leading performance with the latest advancement in battery-powered and adjustable force installation tooling. The new Huck® Range Force™ battery tool\* has an electronically adjustable pull force and long stroke to enable installation of structural and non-structural rivets and up to 1/4" two-piece HuckBolt® fasteners.\*\* Along with an 18V 5Ah battery, the Huck Range Force by Makita is a force to be reckoned with in portability, reliability and versatility.



Solar



Transportation



Construction

## Features and Benefits

- Electronically Adjustable Pull Force Control
- Designed for Huck Installation Nose Assemblies
- Cross-Compatibility with Other Makita 18v Batteries
- High Pull Force and Long Stroke Enable Installation of Both Structural and Non-Structural Rivets, and up to 1/4" Two-Piece HuckBolt Fasteners\*\*

**Capacity:** 3/16" (4.8 mm) – 1/4" (6.4 mm)

**Stroke Length:** 1.18" (30 mm)

**Pulling Force:** BV4500-118 up to 4500 lbf (20kN)  
BV2200-118 up to 2200 lbf (10kN)

**Weight:** 4.8 lbs with 1.5 Ah Battery - 5.5 lbs with 5 Ah Battery

**Battery Pack:** 18V / Li-ion / 5 Ah

**Recharge Time:** Approximately 45 minutes



Adjustable pull force

Range Force Kit includes tool, 2 batteries, charger, carrying case.

Tool Packages & Accessories	
PART NO.	DESCRIPTION
BV2200-118K0	2200 LBF BATTERY TOOL AND CARRYING CASE
BV2200-118K2	2200 LBF BATTERY TOOL, TWO BATTERIES, ONE CHARGER, CARRYING CASE
BV4500-118K0	4500 LBF BATTERY TOOL AND CARRYING CASE
BV4500-118K2	4500 LBF BATTERY TOOL, TWO BATTERIES, ONE CHARGER AND CARRYING CASE
MB-1850	BV EXTRA BATTERY - 18V, 5AH
MCH-18-120	BV BATTERY CHARGER
BV4500RETROKIT	131646 - RUBBER PINTAIL BOTTLE
	131645 - BOTTLE ADAPTER

\* The Huck Range Force is a Lockbolt / Blind Rivet Installation Tool.

\*\* Excludes 1/4" BOM.

# Data and Dimensions

## Fasteners

TYPE	NAME	MATERIALS	MAX SIZE
STRUCTURAL BLIND	AUTO-BULB™	CARBON STEEL	1/4"
		STAINLESS STEEL	1/4"
	MAGNA-BULB®	CARBON STEEL	1/4"
	MAGNA-LOK®	ALUMINUM	1/4"
		CARBON STEEL	1/4"
		STAINLESS STEEL	1/4"
	HUCKLOK®	CARBON STEEL	1/4"
BOM®	CARBON STEEL	3/16"	
HUCKBOLT	BOBTAIL®	ALUMINUM	1/4"
		ALUMINUM	1/4"
		CARBON STEEL, GR 2	1/4"
		CARBON STEEL, GR 5	1/4"
		CARBON STEEL, GR 8†	1/4"
		STAINLESS STEEL	1/4"
	C6L®	ALUMINUM	1/4"
		CARBON STEEL	1/4"
		STAINLESS STEEL	1/4"
	C120L®	CARBON STEEL†	1/4"
	MAGNA-GRIP®	ALUMINUM	1/4"
		CARBON STEEL†	1/4"
	HUCKTAINER®	STEEL†	3/8"

## Nose Assemblies

PART NO.	FASTENER	SIZE
99-3303	MAGNA-LOK®, AUTO-BULB™, MAGNA-BULB®, HUCKLOK®	3/16"
99-3305	MAGNA-LOK®, AUTO-BULB™, MAGNA-BULB®, HUCKLOK®	1/4"
99-3487-6MT††	MAGNA-TITE®	3/16"
99-3487-8MT††	MAGNA-TITE®	1/4"
99-994	BOM®	3/16"
99-7932 99-7932CC	BOBTAIL®	1/4"
99-2555	C6L®, C120L®	3/16"
99-3417	C6L®, C120L®	1/4"
99-3201	MAGNA-GRIP®	3/16"
99-3204	MAGNA-GRIP®	1/4"
99-3464††	HUCKTAINER®	3/8"

† This high strength fastener requires elevated installation loads and, therefore, increased service frequency. If application validation requires additional endurance at the expense of ergonomics and portability, a pneumatic or hydraulic tool may be preferred.

†† Uses Adapter 131748

## BV4500 Recommended Pull Force Settings\*\*\*

SET POINT	PULL FORCE (LBF)	FASTENER
088	650	1/4" BOBTAIL, AL (F)
200‡	1012	1/4" BOBTAIL, AL (C)
200‡	1815	1/4" BOBTAIL, STAINLESS
220	1865	1/4" BOBTAIL, GR 2 STEEL
300	2025	1/4" BOBTAIL, GR 5 STEEL
999	4500	3/16" BOM®
999	4500	3/16" AND 1/4" AUTO BULB™, C6L®, C120L®, FLOOR TIGHT®, HUCKLOK®, MAGNA-BULB®, MAGNA-GRIP®, MAGNA-LOK®, MAGNA-TITE®
999	4500	3/8" HUCKTAINER®

## BV2200 Recommended Pull Force Settings\*\*\*

SET POINT	PULL FORCE (LBF)	FASTENER
140	658	1/4" BOBTAIL, AL (F)
160	1190	1/4" BOBTAIL, AL (C)
190	1895	1/4" BOBTAIL, GR 2 STEEL, STAINLESS
999	2200	3/16" MAGNA-GRIP® AL, C6L AL (C)
999	2200	3/16" AUTO BULB™, FLOOR TIGHT®, HUCKLOK®, MAGNA-BULB®, MAGNA-LOK®, MAGNA-TITE®
999	2200	1/4" (ALUMINUM ONLY) MAGNA-LOK®, MAGNA-TITE®

\*\*\*Adjustments may be necessary based on work conditions. ‡ Collar hardness impacts pull force relationship



**HOWMET  
AEROSPACE**

# Howmet Fastening Systems

## Industrial Division Brands



Huck, Marson, Recoil, Keysert, Camloc, Simmonds and Snep are trademarks of Howmet Aerospace Inc. and/or its subsidiaries.

### North America

#### Waco Operations

PO Box 8117  
8001 Imperial Drive  
Waco, TX 76714-8117  
Tel: +1 800-388-4825  
Fax: +1 800-798-4825  
[sales.waco@howmet.com](mailto:sales.waco@howmet.com)

#### Kingston Operations

1 Corporate Drive  
Kingston, NY 12401  
Tel: +1 800-278-4825  
Fax: +1 845-334-7333  
[sales.kingston@howmet.com](mailto:sales.kingston@howmet.com)

#### Tracy Operations

1925 North MacArthur Drive  
Tracy, CA 95376  
Tel: +1 800-826-2884  
Fax: +1 800-573-2645  
[sales.idg@howmet.com](mailto:sales.idg@howmet.com)

### Global

#### Telford Operations

Unit C, Stafford Park 7  
Telford, Shropshire  
England TF3 3BQ  
Tel: +44 (0) 1952-290011  
Fax: +44 (0) 1952-290459  
[sales.telford@howmet.com](mailto:sales.telford@howmet.com)

#### Melbourne Operations

1508 Centre Road  
Clayton, Victoria  
Australia 3168  
Tel: +613-8545-3333  
Fax: +613-8545-3390  
[sales.melbourne@howmet.com](mailto:sales.melbourne@howmet.com)

#### Tokyo Operations (Japan & Korea)

8F CIRCLES Nihonbashi-  
Bakurocho Bldg  
1-5-12 Nihonbashi-Bakurocho  
103-0002 Tokyo Japan  
Tel: +81-3-5642-8360  
Tel: +81-3-5642-8361 x8365  
Fax: +81-3-5644-5772

#### Suzhou Operations

58 Yinsheng Road,  
SIP Suzhou, Jiangsu  
215126 China  
Tel: +86-512-62863800-8888

[hfsindustrial.com](http://hfsindustrial.com)

[YouTube.com/HFSIndustrial](https://www.youtube.com/HFSIndustrial)

The information contained in this publication is only for general guidance, and is not intended to create any warranty, express, implied, or statutory; all warranties are contained only in Howmet Fastening Systems' written quotations, acknowledgments, and/or purchase orders. It is recommended that the user secure specific, up-to-date data and information regarding each application and/or use of such products.

© 2020 Howmet Aerospace Inc. All rights reserved. 0420  
BobTail, Magna-Grip, HuckLok, Magna-Lok, Auto-Bulb, Magna-Bulb, BOM, and Range Force are trademarks of Howmet Aerospace Inc. and/or its subsidiaries.