Hydro Bard

OPERATING AND MAINTENANCE MANUAL

IMPACT SOCKETS, NON-SPARKING SOCKETS AND REDUCER BUSHINGS

HIS · ATEX · HB-DB



Read this manual and the safety instructions before use.

Hydro Bard Mühendislik · hydrobard.com

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CONTENTS

01 General safety rules

02 Product description

03 Technical data

04 Preparation and connection

05 Operation

06 Maintenance and periodic checks

07 Troubleshooting

08 Storage, transport and disposal

09 Service and contact

01 GENERAL SAFETY RULES

- Read this manual and the manual of the tightening tool before use. The product must only be used by trained persons.
- Wear safety glasses, work gloves, safety shoes and, if needed, hearing protection.
- Use sockets and bushings only within the rated torque of the tool and the socket.
- Do not use cracked, deformed or corner-worn sockets or bushings; remove them from service immediately.
- Keep hands, loose clothing and gloves away from the rotating tool and socket.
- Do not use the product for other purposes and do not weld, grind or heat treat it.

⚠ PRODUCT-SPECIFIC WARNINGS

- Use only impact sockets on impact wrenches; never use chrome hand sockets on an impact tool.
- Make sure the socket and bushing fit the nut exactly; a loose fit damages both the nut corners and the socket.
- Non-sparking sockets do not replace the other measures required in an Ex zone; follow the work permit and zone rules.
- Use sockets and bushings only within the rated torque of the tool; never add force with an extension pipe.

Warning signs

DANGER	A situation that will result in death or serious injury if not avoided.
WARNING	A situation that could result in injury if not avoided.
CAUTION	A situation that could damage the product or give a wrong result.

02 PRODUCT DESCRIPTION

HIS heavy-duty impact sockets are made for air and impact wrenches, ATEX non-sparking sockets for areas with explosive-atmosphere risk, and HB-DB reducer bushings to use large sockets on smaller nut sizes.

03 TECHNICAL DATA

HIS impact socket	3/4″–2.1/2″ square drive; 4140 steel; 40–45 HRC; UNI-ISO 1174 · DIN 3121

ATEX socket	3/4″–2.1/2″ square drive; non-sparking alloy
HB-DB reducer bushing	36–155 mm input size, 25 standard models, 5 mm cap thickness

04 PREPARATION AND CONNECTION

1. Check the socket for cracks, deformation and worn corners.
2. Secure the socket to the square drive with the pin and O-ring.
3. Seat the reducer bushing fully in the socket and check that it fits the nut size.

05 OPERATION

1. Seat the socket fully and squarely on the nut.
2. Start the tool at a low setting, then increase to the required torque.
3. Do not hold the socket while working; keep hands and gloves away from rotating parts.
4. In ATEX areas use the socket intermittently to limit heating from impact and friction.

06 MAINTENANCE AND PERIODIC CHECKS

Check	Interval
Cracks, deformation and corner wear	Before each use
Pin and O-ring	Before each use
Cleaning and corrosion protection	After each use
Scrap damaged sockets and bushings	Immediately when damaged

07 TROUBLESHOOTING

Symptom	Possible cause	Remedy
Socket slips on the nut	Wrong size; worn corners	Use the correct size; replace the socket
Socket comes off the tool	Missing pin or O-ring	Fit the pin and O-ring
Crack in the socket	Excess torque; non-impact socket used	Remove from service immediately

08 STORAGE, TRANSPORT AND DISPOSAL

- Store sockets and bushings clean and dry in an organised case so they do not knock against each other.
- Protect against rust with a light oil film; follow the area rules for oil use with ATEX sockets.
- Segregate damaged sockets so they cannot be reused and recycle them as scrap metal.

09 SERVICE AND CONTACT

Contact Hydro Bard for maintenance, repair, pressure testing and spare parts. Quote the model code and serial number of any product sent for service.

ADDRESS
İvedik OIZ, 1436. Cadde No:14
Yenimahalle / Ankara / Türkiye

PHONE / E-MAIL
+90 545 209 22 08
info@hydrobard.com

PRODUCT PAGE
hydrobard.com/en/impact-socket.html

Keep this manual with the product and accessible to the user. For technical values see the product datasheet and the rating plate. · Rev. 1.0 · October 2026