Hydro Bard

OPERATING AND MAINTENANCE MANUAL

HYDRAULIC NUT SPLITTERS

HSP



Read this manual and the safety instructions before use.

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01 GENERAL SAFETY RULES

- Read this entire manual before using the product. The product must only be used by trained and authorised persons.
- Never exceed the maximum working pressure shown on the rating plate or label. Always monitor the system with a pressure gauge.
- All components in the system (pump, hose, coupler, valve, tool) must be rated for the same or higher pressure.
- Never disconnect, tighten or loosen fittings, couplers or hoses while they are under pressure.
- Pressurised hydraulic oil can penetrate the skin and cause serious injury. Never check for leaks by hand; seek medical help immediately after any oil injection.
- Wear safety glasses, work gloves and safety shoes. Do not stand in the line of movement of pressurised equipment.
- Do not use equipment that is damaged, leaking, deformed or has illegible labels; send it for service.
- Do not use the equipment for any other purpose or modify it. Use genuine spare parts only.

⚠ PRODUCT-SPECIFIC WARNINGS

- Place the chisel square to a flat of the nut; never on a corner or the bolt thread.
- The nut size and hardness must suit the model capacity. Very hard (high-strength) nuts can damage the chisel.
- Nut fragments can fly off when splitting; wear safety glasses and stay out of the cutting line.

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

The HSP nut splitter cuts seized, rounded or corroded nuts with a hydraulically driven chisel, without damaging the bolt or stud and without sparks.

03 TECHNICAL DATA

Max. working pressure	700 bar (see rating plate)
Models	9 models
System	Single-acting, spring return
Nut size	By model; see the table on the product page

04 PREPARATION AND CONNECTION

1. Select the HSP model for the nut size.
2. Check that the chisel is sharp and undamaged.
3. Connect the hose with the coupler; use a 700 bar pump and gauge.

05 OPERATION

1. Fit the splitter head over the nut and bring the chisel against a flat.
2. Pump slowly; the chisel enters and splits the nut.
3. Stop pumping as soon as the nut splits; do not advance further onto the bolt thread.
4. Release the pressure; the chisel retracts by spring. If needed make a second cut on the opposite flat and remove the nut.

06 MAINTENANCE AND PERIODIC CHECKS

Check	Interval
Chisel edge: cracks, bluntness	Before each use
Body and coupler	Before each use
Chisel replacement	When blunt or damaged
Seal check and pressure test	Yearly

07 TROUBLESHOOTING

Symptom	Possible cause	Remedy
Nut does not split	Blunt chisel; nut outside capacity	Replace the chisel; use a larger model
Chisel does not retract	Damaged spring; valve closed	Open the release valve; send for service
Pressure drops	Seal leak	Send for service

08 STORAGE, TRANSPORT AND DISPOSAL

- Store the equipment clean, dry and depressurised, with dust caps fitted to the couplers.
- Do not lift or carry the equipment by its hoses or couplers; use suitable lifting gear for heavy parts.
- Dispose of used hydraulic oil and oily materials in line with local environmental regulations.

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/nut-splitter.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