Hydro Bard

OPERATING AND MAINTENANCE MANUAL

HYDRAULIC PUMPS

HBP (700 bar) · PMP (1500 bar)

⚠ **Read this manual and the safety instructions before use.**

Hydro Bard Mühendislik · hydrobard.com

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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

- Select the pump for the pressure rating of the connected equipment; never connect 700 bar equipment to a 1500 bar pump.
- Never extend the hand pump lever with a pipe or apply excessive force to it.
- On air pumps limit the supply air pressure to the value on the pump label and fit an air treatment unit (filter-regulator).
- Operate the pump on a level surface with the reservoir upright.

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 HBP series powers 700 bar cylinders and tools; the PMP series powers 1500 bar bolt tensioners and hydraulic nuts. Manual and air-driven versions are available.

03 TECHNICAL DATA

HBP series	700 bar (10,153 psi), 3 pump types
PMP series	1500 bar (21,750 psi), manual / air
PMP outlet	STFC4 quick coupler
Oil	Clean mineral hydraulic oil; follow the pump label

04 PREPARATION AND CONNECTION

1. Check the oil level with the equipment fully retracted; top up with the same oil if needed. Do not overfill.
2. Set the reservoir vent plug to the operating position, if fitted.
3. Fit the gauge at the pump outlet, then connect the hose and the equipment.
4. Check that all couplers are fully engaged.

05 OPERATION

1. Close the release valve clockwise by hand (do not overtighten).
2. Pump with steady full strokes, or use the pedal/valve on air pumps, while watching the gauge.
3. Stop at the required pressure.
4. To release, open the release valve slowly; oil returns to the reservoir.
5. When finished leave the valve open so the system stays depressurised.

06 MAINTENANCE AND PERIODIC CHECKS

Check	Interval
Oil level and cleanliness	Before each use
Couplers, gauge and hose connections	Before each use
Oil change	Yearly or when contaminated
Relief valve setting and leak test	Yearly (service)
Air pump: air filter and lubricator	Monthly

07 TROUBLESHOOTING

Symptom	Possible cause	Remedy
Pressure does not rise	Release valve open; low oil; air in system	Close the valve; add oil; cycle the unloaded tool to bleed air
Lever moves freely, no delivery	Reservoir vent closed; dirty check valve	Open the vent; send for service

Symptom	Possible cause	Remedy
Pressure falls by itself	Valve or check valve leak; external leak	Check connections; send for service
Air pump does not run	Low air pressure; blocked filter	Check the air line and filter

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.

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PRODUCT PAGE
hydrobard.com/en/700-bar-hydraulic-pump.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