

Operating instructions

# EDER hydraulic unit



Schweigerstraße 6 - 38302 Wolfenbüttel - Germany

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Dear customer, thank you for choosing a quality product from Eder Maschinenbau GmbH. For correct use and to prevent accidents, please read the operating instructions carefully. Ignoring the safety instructions can lead to serious injuries!

### **Eder Mechanical Engineering GmbH**




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## Warnings

	Notes, dangers and warnings		Do not inhale exhaust gases
	Read operating instructions before commissioning		Use in enclosed spaces is prohibited
	Attention! Flammable substances		Refuelling the hot engine is prohibited

## Technical data

4-stroke drive engine: Honda GX200	4-stroke: Honda GX200
Net power	4.3 kW (5.8 hp)
Rated speed	3600 min <sup>-1</sup>
Length	670 mm
Wide	390 mm
Height	430 mm
Delivery pump volume	3.6 cm <sup>3</sup> / revolution
Hydraulic oil tank capacity	5l
Weight (without petrol)	30 kg
Oil stream	14l min <sup>-1</sup>
Oil pressure	Max. 150 bar



For detailed technical data on the engine and its maintenance, please read and observe the manufacturer's separate operating and maintenance instructions.

## Application area

The EDER hydraulic power unit EHA150 is suitable for use at an oil pressure of 150 bar and an oil flow of 14l per minute. The power unit is driven by an economical Honda GX200 4-stroke petrol engine with an output of 4.3 kW (5.8 hp). The unit is built into a carrying frame and can thus be transported by one or two persons with its low weight of approx. 30 kg.

**Accessories:** The EDER hydraulic unit EHA150 is particularly suitable for operating the EDER splitting unit EHG1.

The EDER hydraulic unit is not suitable for operation without hoses and connected equipment.

## Safety instructions

1. Read the operating instructions for the hydraulic unit and the engine before use and pay attention to all warnings and safety instructions. Keep the operating instructions for future reference.
2. The EDER hydraulic unit and the equipment connected to it may only be operated by persons who have been instructed and trained in the use of hydraulic equipment.
3. Do not use the EDER hydraulic unit if you are tired, confused or under the influence of sedatives, sleeping pills, alcohol or drugs.
4. The EDER hydraulic unit may only be used in sufficiently good lighting conditions.
5. The operationally safe condition of the unit must always be checked before starting work.
6. The EDER hydraulic unit must not be used if damage to the unit or to the hydraulic system and hoses has been detected.  
If leakage is suspected, do not feel the hydraulic unit and hoses with bare hands. An oil jet escaping at high pressure can cause serious injury.
7. Suitable tools must be used for maintenance and set-up work.
8. Protection and safety devices must not be rendered ineffective.
9. Before starting work, make sure that you are standing securely and remove any obstacles in the working area if necessary.
10. Do not interfere with the mechanics during operation.
11. The EDER hydraulic unit is operated with a combustion engine and can therefore become very hot. The EDER hydraulic unit must not be used in closed rooms.
12. Make sure that the unit you connect to the EDER hydraulic unit is suitable for at least 150 bar.

## Commissioning

For the initial start-up of the EDER hydraulic unit, the following operating materials must be filled into the engine:

- 1.) Up to 3 litres of petrol in the petrol tank (without additives, no two-stroke mixture!)
- 2) SAE 10W-30 is recommended for general use.

**For further details, please refer to the motor operating instructions.**

Check the engine oil level before each use.

The oil tank of the hydraulic unit is filled with 5 litres of mineral hydraulic oil (HLP ISO 46) on delivery.



Connect the hydraulic hoses correctly before starting the engine. The pressure line is marked with a "P" on the EDER hydraulic unit. Make sure that the pressure line and the return hose are connected correctly. The hoses and the hydraulic connections on the power unit must be kept clean.



**Incorrectly connected or dirty hydraulic hoses can cause damage to the connected unit.**

**Do not start the engine until both hydraulic hoses are connected.**

## Maintenance

Check the operating materials daily before each work operation:

The engine oil level must be checked with the dipstick on the engine in accordance with the operating instructions for the petrol engine and topped up if necessary. The content of the hydraulic oil reservoir must be checked by unscrewing the red screw cap of the filler opening and topped up at the latest when the minimum oil level is reached or fallen short of. Only use mineral hydraulic oil that complies with the following specification: **HLP ISO 46**.

During use, pay attention to unusual operating noises and possibly leaking or damaged fluid lines and screw connections. If a defect is suspected, you must take the unit out of operation and eliminate the cause or have it checked and repaired at a specialist workshop to avoid further consequential damage.

Clean dirty components regularly.

Only original spare parts from EDER Maschinenbau GmbH or the engine manufacturer are to be used as replacements for defective parts!

## Recycling

The EDER splitting unit contains oils/greases and must be disposed of by a recycling company.

## Spare parts

Only use original spare parts from EDER Maschinenbau GmbH.  
Spare parts lists can be downloaded from the following address:  
[www.eder-maschinenbau.de/produkte/ersatzteile](http://www.eder-maschinenbau.de/produkte/ersatzteile)

## Warranty


For private users the warranty period is 24 months and for commercial use 12 months. First of all, the seller must always be given the opportunity for subsequent performance within a reasonable period of time.

### No warranty

The manufacturer does not provide any warranty for:

- Parts that are subject to natural wear and tear
- Non-compliance with the operating instructions and lack of or incorrect care
- Consequences of improper maintenance and servicing measures
- Damage from improper handling and incorrect operation

## Declaration of conformity

<p>Eder Mechanical Engineering GmbH Schweigerstrasse 6 DE 38302 Wolfenbüttel</p>	<p><b>Declaration of conformity</b> According to EC Machinery Directive 2006/42/EC</p>	<p>Phone +49-5331-902160 Fax +49-5331-9021656 info@eder- maschinenbau.de</p>
<p>The manufacturer: <b>EDER Maschinenbau GmbH, Schweigerstraße 6, 38302 Wolfenbüttel, Germany.</b></p> <p>Herewith declares under its sole responsibility that the product <b>EDER splitting unit, model EHG1</b>, serial number starting from: 0001 MM YY</p> <p>to which this declaration refers, complies with the following standards and normative documents:</p> <p><b>Directive 2006/42/EC:</b> of the European Parliament and of the Council of 17 May 2006 on machinery, and amending Directive 95/16/EC (recast).  <b>DIN EN 982:2009-06:</b> Safety of machinery - Safety requirements for fluid power systems and their components - Hydraulics  <b>EN ISO 12100:2010:</b> Safety of machinery - General principles for design - Risk assessment and risk reduction</p> <p>Authorised person for the technical documents: Michael Pögel</p> <p>Wolfenbüttel, 07.12.2010</p>  <p>Ulrich Schrader, Managing Director</p>		

