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# **HYDRAULIC JACK HHYG LOW (remote control with remote pump)**



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**IMPORTANT:** when building the systems required for your operation, take care to select the appropriate components to ensure proper integration with existing equipment, and take all safety precautions to avoid the risk of personal injury and property damage.

## 1. Description and Operation

### 1.1 Purpose of the product

Single-sided hydraulic jack is designed for lifting a load to a certain height when performing various construction, assembly and repair works.



Fig. 1: HHYG hydraulic jack.

### 1.2 Main characteristics

Item No.	Model	Load capacity, t, τ	Load, kN	Lifting height (A), mm	Stroke, mm	Lifting height (B), mm	Oil cylinder volume, cm <sup>3</sup>	Pump model	Weight, kg
1002010	HNYG-101 (ДН10М50)	10	106	108	50	158	75	HHB-700C	2.5
1002011	HNYG-201 (ДН20М50)	20	225	111	50	161	160		4.7
1002012	HNYG-301 (ДН30М50)	30	334	111	50	161	238		6.3
1002013	HNYG-501 (ДН50М50)	50	527	116	50	166	376	HHB-700	9.2
1002014	HNYG-1001 (ДН100М50)	100	1001	126	50	176	715	HHB-700A	21.5
1004581	HNYG-1501 (ДН150М50)	150	1532	126	50	176	1094		29.8
1002015	HNYG-2001 (ДН200М50)	200	2089	131	50	181	1512		45

Item No.	Model	Outer diameter (D), mm	Inner diameter (E), mm	Stem diameter (F), mm	Stem return type
1002010	HHYG-101 (ДН10М50)	64	44	38	Spring loaded
1002011	HHYG-201 (ДН20М50)	88	64	52	
1002012	HHYG-301 (ДН30М50)	108	78	64	
1002013	HHYG-501 (ДН50М50)	124	98	80	
1002014	HHYG-1001 (ДН100М50)	178	135	100	
1004581	HHYG-1501 (ДН150М50)	208	167	135	
1002015	HHYG-2001 (ДН200М50)	248	195	158	



Fig. 2

1. Hard backing (used to avoid plunger breakage in case of overloading).
2. Stop ring (designed to protect the cylinder at the moment of upper stroke position, also absorbs the load on the other side).
3. Spring (ensures that the rod can quickly return to its original position).
4. Cylinder wall and main axle (they are chrome plated to help avoid corrosion and reduce friction)
5. O-ring (provides an excellent seal and has a long service life).
6. Stop ring (designed to protect the cylinder at the moment of the top position of the stroke, also absorbs the load on the other side).
7. Brass ring (high quality brass is used in the connection in order to protect against overload condition and absorb the load on the other side).

## 2. Intended use

### 2.1 Installation, preparation and operation

- Insert the quick coupler (6) of the oil pump rubber tube into the jack connector and screw in the quick coupler trim.
- Then screw in the check valve (4) and loosen the hex screw (2) at the rear of the pump, pull the handle (1) up and down to operate it.
- Determine the center of gravity of the object to be lifted and select a working point during use.

**CAUTION:** The object to be lifted must not exceed the rated lifting capacity, do not operate the unit under overload condition.

- Tighten the hex screw (3) on the back of the pump to add oil if necessary. The oil must be clean, use YU-N15 hydraulic oil.

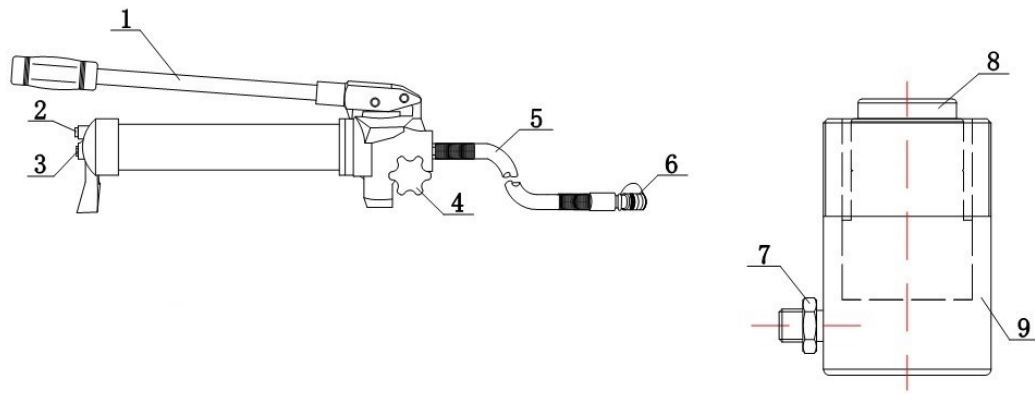


Fig. 3.

- |   |                  |
|---|------------------|
| 1. Handle                                 | 6. Quick coupler |
| 2 Hexagonal screw with recess in the head | 7. Connector     |
| 3 Hexagonal screw                         | 8. Head          |
| 4. Check valve                            | 9. Oil cylinder  |
| 5. Leather tube                           |                  |

### 2.3 Precautions

Make sure that the highest level of system pressure does not exceed the lowest pressure rating of any component within the system.

The following general instructions and guides will be helpful to determine if your system components are properly connected.

- Be sure all hydraulic connections, hoses, and fittings are rated for the highest pressure your system is capable of generating. Always use hoses and tubing recommended by the hydraulic component manufacturer.

- Be sure all connections are fully tightened. Seal all pipe connections with a high-grade pipe thread sealer. Teflon tape is an excellent thread sealer. If it is not properly applied, however, pieces may enter the hydraulic system and cause malfunctions and damage. Use 1 1/2 wraps of tape on each thread. Cut off all loose tape ends.

- All connections should be snug and leak-free. Excessive tightening will strain threads and castings which could cause fitting failure at pressures below rated capacity. DO NOT over-tighten any connections.

- Fully tighten hydraulic couplers (avoid excessive force). Loose couplers will act as a partial or complete line restriction, causing little or no oil flow and resulting in equipment damage or failure.

- Be sure all hydraulic hoses and fittings are connected to the correct inlet and outlet ports of the pump, cylinder, valves, and other system connections.

**PUMP SELECTION** All hydraulic cylinders must be properly connected to the source of hydraulic oil to operate. This source is generally a hand-operated or power-operated pump.

The choice of pump will depend upon the requirements of your application.  
Use the correct pump for the cylinder you have

### **3. WARRANTY**

The warranty period is 12 months from the date of sale to the end customer.

#### **LIMITATION OF LIABILITY:**

- Seller will not be liable for product failures caused by use and normal wear and tear.
- The Seller is not responsible for product malfunctions caused by non-observance of operating rules or use of the Product under unacceptable environmental conditions.
- The warranty will be voided if the Product is not regularly serviced and if it is improperly stored.
- This warranty will not be extended to any Product that has been subject to misuse, neglect or accident or which will have been altered or repaired by elements other than Seller's in such a manner as to adversely affect its performance, stability or reability.
- The warranty does not cover the Product that has suffered any mechanical damage.
- The warranty does not apply to a Product that has been altered in any way.

In order to determine the causes of failure, a technical check is carried out for a period of 10 working days from the date of receipt of the Product for diagnosis.

#### **Claims filing:**

- Claims concerning found defects can be issued by the Buyer to the Seller within the guarantee period. The Buyer may request a claim form and instructions for filing a claim from the Seller.
- All risks associated with delivery of the Product to the dealer or service center are borne by the owner of the Product.
- Claims related to incompleteness and appearance of the Product will not be accepted after it has been put into operation.



The information in this paragraph is current at the time of printing of this manual. Up-to-date information on warranty service rules is published on the official website of the group of companies TOR INDUSTRIES **[www.tor-industries.com](http://www.tor-industries.com)** ("Service" section).

## PRODUCT PASSPORT

### Product Information:

<b>Model</b>			
<b>Serial No.</b>			
<b>Sale Date</b>		/	
<b>Warranty Period</b>			

### Seller Information:

<b>Company</b>			
<b>Address</b>			
<b>Phone</b>			

### SERVICE MARKS

<b>Place for Stamp</b>	<b>All control operations and tests have been carried out. The product is fully equipped, serviceable and ready for use.</b>
Dated: <input type="text"/>	

### Maintenance and repair

<b>Type of Maintenance</b>					
<b>Type of Maintenance</b>					
<b>Type of Maintenance</b>					
<b>Type of Maintenance</b>					
<b>Warranty Repair</b>					
<b>Repair</b>					
Date of Maintenance					
Contractor					

The customer confirms that he has familiarized himself with the rules of use of the product. The customer received the manual in English. The customer has no claims to the serviceability, appearance and completeness of the product.

Customer  
Signature

\_\_\_\_\_

**Place Stamp for**

**List of periodic inspection and repair**

<b>Date</b>	<b>Data on product inspection or repair</b>	<b>Signature of the responsible person</b>