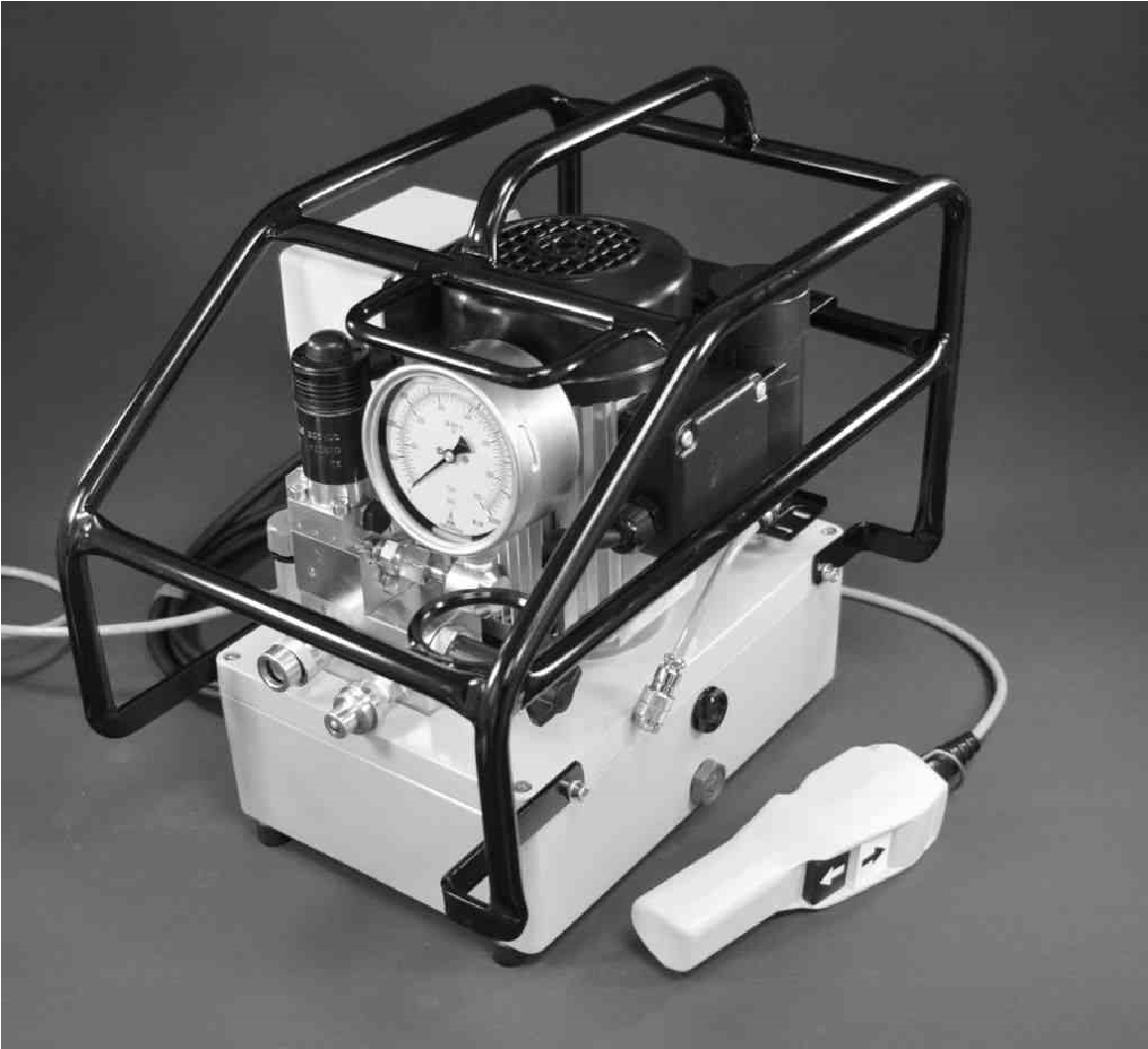
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**Operating Instructions**

REP1000 Hydraulic Torque Wrench 115V Pump



# General Description of the Machine

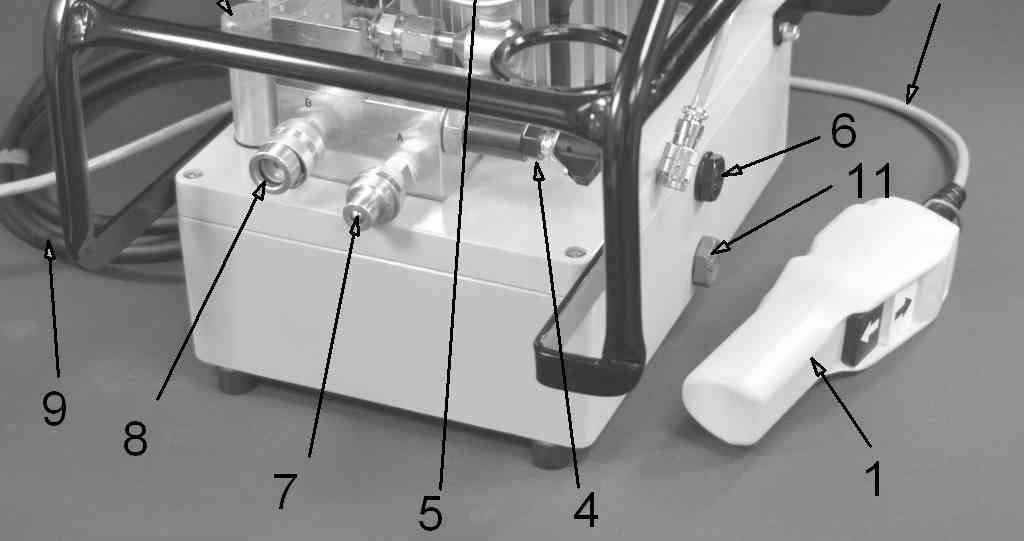
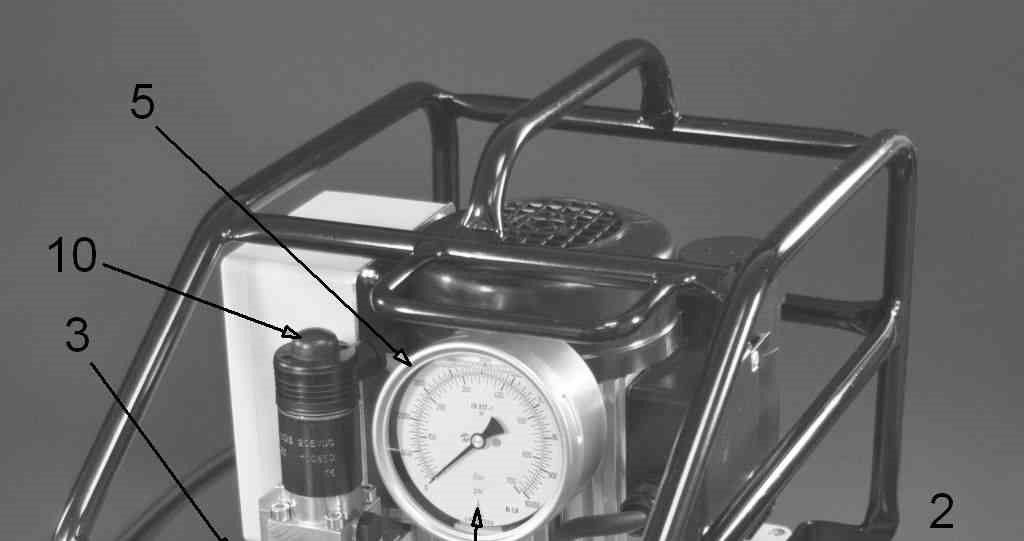


Fig. 1

Components of the Machine:

1. Remote control
2. Remote control cable
3. Hydraulic fluid filler cap
4. Pressure adjustment valve
5. Pressure Gauge
6. Fluid level sight glass
7. Hose coupling connection "A"
8. Hose coupling connection "B"
9. Mains cable with mains plug
10. Manual actuation for solenoid valve
11. Fluid drain plug

# Specified Conditions of Use

This device is exclusively intended for use as a drive mechanism for hydraulic torque tools in line with the description and safety instructions given in these Operating Instructions.

* Any other use is considered to be improper!
* In particular the use of the machine as a drive for all other hydraulic devices such as presses, hoisting cylinders, hydraulic shears, spreaders, etc. is improper use!
* Improper use of the device or modifications to the device undertaken by the end-user exclude any liability on the part of the manufacturer and invalidate the Declaration of Conformity!
* In this case the user is liable for damages resulting from the use of the device.

# Residual risks

*  Danger due to hot surfaces: The surface of the oil cooler (if fitted) becomes hot; keep a safe distance; the warning symbol is attached to the cooler
* Danger due to noise: maximum noise level 82 dB(A); the end-user must make personal protective equipment (ear-protectors) available.

# Use and Conditions for Storage

* Ambient temperature: -10 to +40°C for use and storage
* Protect from rain during use and storage.
* Modification of the conditions of use only after consultation with the manufacturer.
* Power supply connections: (delivery with earthed pin plug). In the event of modification to the mains connection, protection against shock must be guaranteed by installing a protective earth system.

# Before Initial Operation

* Carry out a visual inspection before each start-up.
* Check remote control (1), mains plug (9) and all cables for damage.
* Check hose couplings, hoses1) and hydraulic torque tools1) for damage.

1)

not included in delivery

* Hose couplings, hoses and hydraulic torque tools must be designed for an operating pressure of 700 bar.
* Hose couplings, hoses and hydraulic torque tools with lower operating pressures are not permitted to be connected to the hydraulic device!
* Check the entire machine, fluid reservoir, motor, and gauge for damage such as ruptures or leaks.
* Have damaged parts replaced by qualified technicians before operation.
* Check hose couplings (7, 8) for dirt.
* Clean soiled hose couplings before operation.
* Check the fluid level; the level must be up to the middle of the oil sight glass (6).
* If need be, top up hydraulic fluid.
* Set up the hydraulic device on a level, horizontal surface so that it is prevented from falling over or falling down.
* Connect the hydraulic device by means of the threaded couplings with the hoses and with the hydraulic torque tool: (as per Fig. 2)
* Power supply connections: (delivery with earthed pin plug). In the event of modification to the mains connection, protection against shock must be guaranteed by installing a protective earth system.

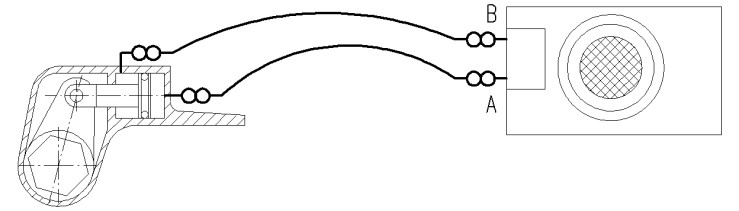


Fig. 2

* The hydraulic device must not be operated without the hoses and the hydraulic torque tool connected up!
* Connect the hydraulic device to the electricity supply.

# Operation

## Operating the Machine

* Switch on the motor by actuating the white push-button on the remote control (1).
* White push-button actuated: forward stroke of the tool piston
* White push-button not actuated: return stroke of the tool piston
* Switch off the motor by actuating the black push-button on the remote control (1)
* Relieve pressure of the device by manually actuating the solenoid valve (10)

## Pressure and / or Torque Adjustment

The torque of hydraulic torque wrenches is proportional to the pressure.

This is why before tightening or loosening bolted connections the maximum pressure of the machine and thus the maximum torque of the torque tool must be adjusted:

* Do not place the hydraulic tool on either bolts or nuts.
* Switch on the motor by pushing the white push-button on the remote control (1) and keep the white push-button pressed down – the tool piston extends.
* After reaching the end position of the tool piston, the maximum pressure of the system can be increased by turning the adjustment knob (4.1) on the pressure adjustment valve (4) clockwise until the required pressure is reached. The current system pressure is displayed on the manometer (5).
* By releasing the white push-button, the tool piston retracts.

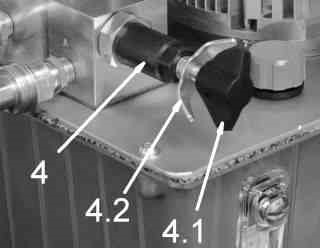


Fig.3

* Checking the setting: after reaching the end position a second time, press the white push-button again in order to extend the tool piston completely and to keep it until the maximum pressure is reached.
* To reduce the maximum pressure, turn the adjustment knob (4.1) on the pressure adjustment valve

(4) anti-clockwise.

* When the required pressure is reached, the setting is secured by tightening the wing nut (4.2) on the pressure adjustment valve (4).

## Tightening or loosening threaded connections

Tightening or loosening threaded connections is done according to the instructions of the torque tool manufacturer.

# Servicing and Fault Clearance

* As a matter of principle, electrical work may only be carried out by qualified electricians.
* Use only original spare parts as per the spare parts list.
* Hydraulic fluid change and filter change (if fitted) at least once every year or at the latest after every 300 operation hours; if necessary earlier, if the hydraulic device is used in a dusty environment.
  + Recommended hydraulic fluids: HLP32 or HLP46
  + Hydraulic fluid quantity : see Technical Data (Section 12)
  + Fluid filter as per spare parts list

|  |  |  |
| --- | --- | --- |
| **Malfunction** | **Possible cause** | **Remedy** |
| Motor does not start | Mains cable not connected | connect Mains cable |
| Incorrect mains voltage | Check mains voltage; if necessary connect to suitable electricity supply |
|  | Mains cable faulty  Remote control cable faulty  Remote control faulty | Have it replaced by qualified electrician |
|  | Machine faulty | Have it serviced by authorised workshop |
| No (or insufficient) pressure build-up even though motor is running | Too little or no hydraulic fluid | Top up hydraulic fluid |
| Maximum pressure not set or set too low | Adjust pressure as per Section 9.2 |
| Machine faulty | Have it serviced by authorised workshop |
| Tool does not move even though pressure builds up correctly | One or several hose couplings not tightly connected | Connect up machine, hoses and tool as per Section 8, Fig. 2 |
| Tool works the wrong way round | Tool connected incorrectly | Connect up machine, hoses and tool as per Section 8, Fig. 2 |

# 

# Shutdown

* Switch off motor by actuating the black push-button on the remote control (1).
* Release the pressure in the system by pressing and holding down the black push-button and at the same time pressing the white push-button once.
* Disconnect the hydraulic device from the compressed air supply.
* Turn the adjustment knob on the pressure adjustment valve (4) all the way anti-clockwise and thus set the maximum pressure to 0 bar.
* Disconnect the hydraulic device from the hoses.

# Technical Data



|  |  |
| --- | --- |
| Type  **Technical Data** | **REP1000** |
| Voltage | 1~110-120V 50+60Hz |
| Nominal power output Pump capacity: | 0,55 kW |
| Low pressure < 75 bar | 6.5 l/min |
| Medium pressure 75-220 bar | 1.8l/min |
| High pressure up to 700bar | 0.7 l/min |
| Weight without/with hydraulic fluid | 25/29 kg |
| Fluid capacity | 4.0 l |
| Fluids:  Dimensions: | HLP32; HLP46 |
| Length | 40 cm |
| Width | 28 cm |
| Height | 40 cm |
| Noise level | 82 dbA |