



# Linear actuators RH 1250

Lifting force 4.5 to 12.5 kN, stroke from 80 to 250 mm, manual-hydraulic version



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## 1 Description of the product

Linear actuators RH 1250 are manually operated, hermetically sealed, hydro-mechanical actuators for linear adjusting procedures. The compact design contains the pump piston and the valve technology. Also the oil reservoir and the plunger cylinder are integrated. The hydraulic transmission in connection with the manual operation allows a good dosage of very high forces. Important for that are also the mechanics with minimum clearance as well as the sensitive responding valves with exactly defined switching points. In principle only push forces can be generated.

## 2 Validity of the documentation

This documentation is valid for linear actuators RH 1250 of the types and/or part numbers:

ID.	M8-XX-XX-X-A-X-L-X-X
D	—
H	—
W	—
B	—
F	—
R	—

D = Maximum lifting force (push force)

04	4500 N
06	6500 N
09	9500 N
12	12500 N

H = Stroke

08	80 mm
14	140 mm
20	200 mm
25	250 mm

W = Bore hole operating shaft

1	perpendicular to the plunger Ø 6 mm
2	parallel to the plunger Ø 6 mm
3	without bore hole

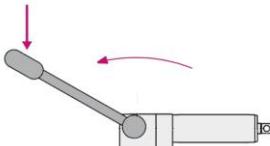
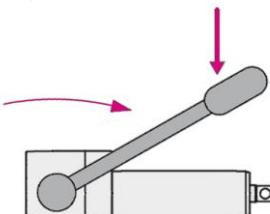
**B = Fixation**

<b>S</b>	Standard
<b>G</b>	Fork (only up to 6500 N)
<b>F</b>	Flange (only up to 6500 N)

**F = Bore hole operating shaft**

<b>1</b>	unlacquered
<b>2</b>	RAL 9016 traffic white
<b>3</b>	RAL 9006 white aluminium
<b>4</b>	RAL 9005 black
<b>5</b>	RAL 7035 light grey
<b>6</b>	RAL 7038 agate grey

**R = Operating direction**

<b>A</b>	Pump lever counterclockwise
	
<b>D</b>	Pump lever clockwise
	

**3 Target group of this document**

- Specialists, fitters and set-up men of machines and installations with hydro-mechanical expert knowledge.

**Qualification of the personnel**

**Expert knowledge** means that the personnel must

- be in the position to read and completely understand technical specifications such as circuit diagrams and product-specific drawing documents,
- have expert knowledge of function and design of the corresponding components.

A specialist is somebody who has due to its professional education and experiences sufficient knowledge and is familiar with the relevant regulations so that he

- can judge the entrusted works,
- can recognize the possible dangers,
- can take the required measures to eliminate dangers,
- knows the acknowledged standards, rules and guidelines of the technology.
- has the required knowledge for repair and mounting.

**4 Symbols and signal words**
**⚠ WARNING**
**Person damage**

Stands for a possibly dangerous situation.  
If it is not avoided, death or very severe injuries will result.

**⚠ CAUTION**
**Easy injuries / property damage**

Stands for a possibly dangerous situation.  
If it is not avoided, minor injuries or material damages will result.

**Hazardous to the environment**

The symbol stands for important information for the proper handling with materials that are hazardous to the environment.  
Ignoring these notes can lead to heavy damages to the environment.

 **ⓘ Note**

This symbol stands for tips for users or especially useful information. This is no signal word for a dangerous or harmful situation.

**5 For your safety**
**5.1 Basic information**

The operating instructions serve for information and avoidance of dangers when installing the products into the machine as well as information and references for transport, storage and maintenance.

Only in strict compliance with these operating instructions, accidents and property damages can be avoided as well as trouble-free operation of the products can be guaranteed.

Furthermore, the consideration of the operating instructions will:

- avoid injuries
- reduce down times and repair costs,
- increase the service life of the products.

**5.2 Safety instructions**

The product was manufactured in accordance with the generally accepted rules of the technology.

Observe the safety instructions and the operating instructions given in this manual, in order to avoid personal damage or material damage.

- Read these operating instructions thoroughly and completely, before you work with the product.
- Keep these operating instructions so that they are accessible to all users at any time.
- Pay attention to the current safety regulations, regulations for accident prevention and environmental protection of the country in which the product will be used.
- Use the ROEMHELD product only in perfect technical condition.
- Observe all notes on the product.
- Use only accessories and spare parts approved by the manufacturer in order to exclude danger to persons because of not suited spare parts.
- Respect the intended use.
- You only may start up the product, when it has been found that the incomplete machine or machine, in which the product shall be mounted, corresponds to the country-specific provisions, safety regulations and standards.



- In mines.
- In explosive and aggressive environments (e.g. ATEX).
- In the aerospace industry.
- For passenger transport.

## 7 Installation

### 7.1 Design

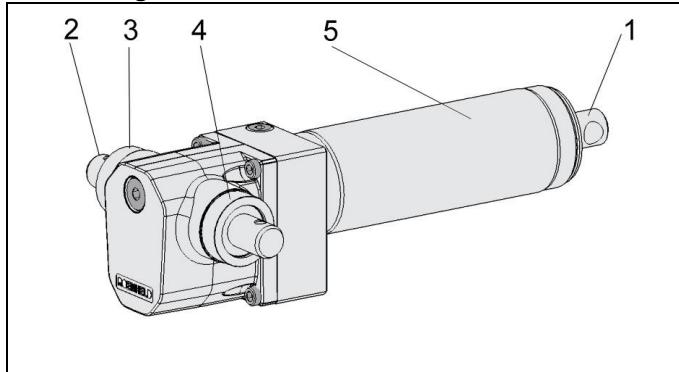


Figure 4: Standard version

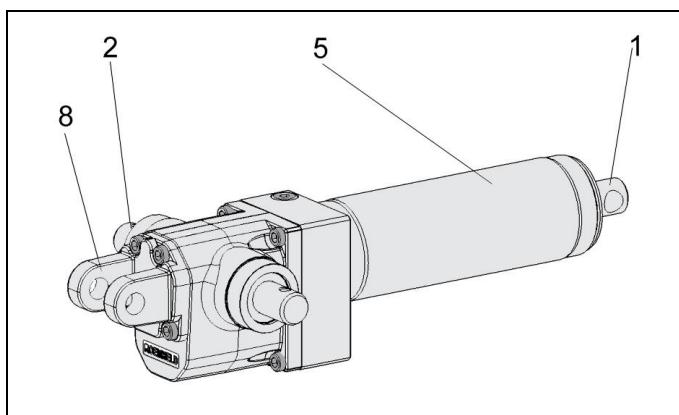


Figure 5: Fork mounting

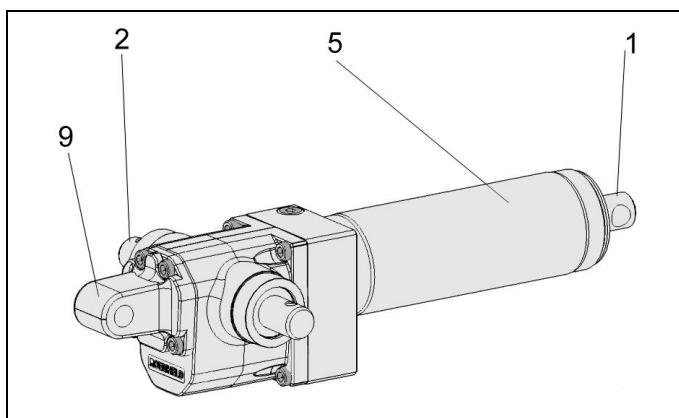


Figure 6: Flange mounting

Explanations to the figures of the different mountings:

1 Plunger with location hole Ø 12.1	5 Pipe with name plate
2 Operating shaft with 2 cross holes Ø d H12 or without bore hole possible	8 Fork mounting
3 Centring pivot Ø 38, unlacquered at the right	9 Flange mounting
4 Centring pivot Ø 38, unlacquered at the left	

### 7.2 Mounting - installation

#### NOTE

##### **Pay attention to the mounting position**

Incorrect mounting position can cause malfunctions.

#### **WARNING**

##### **Injury by crushing!**

Components of the product make a movement while they are in operation, this can cause injuries.

- Keep parts of the body and items out of the working area!

#### **CAUTION**

##### **Function of the product!**

If the product does not work perfectly, even if only partial stroke ranges are affected, the product must no longer be used.

- Observe the checking intervals.

##### **Mounting components of the customer!**

- When mounting components of the customer no damages may occur at the product.

##### **There must be no forces are introduced into the body!**

- When putting on or pressing on the customer's operating element, no forces must be introduced into the housing and the seals must not be damaged.
- When driving in the dowel pin - DIN 1481 no forces must be introduced into the housing. The length and installation of the dowel pin - DIN 1481 has to be selected so that a double-shear load will act on the pin.

##### **Receiving bores!**

- The location holes in the customer's connecting construction must be realised with a diameter of 38.2 +0.2 and parallel to the centre line.
- The linear actuator must be easily movable in the location holes.
- The location bolt of the customer's connecting construction must be carried out with a diameter of 12 -0.2.

##### **Transverse forces and forced conditions!**

Side loads and forced conditions on the product lead to the premature failure.

- Avoid forced conditions (overdetermination) of the product.
- Max. forces and torques see technical characteristics.

##### **The product is not suitable for pull load.**

If the plunger will be loaded by pulling and pulled out, air can enter into the hydraulic system and this can lead to malfunctions.

This can be eliminated by repeated extension and retraction of the actuator.

### 7.2.1 In the case of shafts without bore hole

#### ⚠ CAUTION

##### Damage of components!

Applied forces can lead to internal damages.

- During drilling and mounting, no forces must be introduced into the housing.
- The seals must not be damaged.
- Coolants and lubricants must not be used.
- The length and installation of the dowel pin DIN 1481 has to be selected so that a double-shear load will act on the pin.

- 1 Provide bore hole  $\varnothing$  d H12 for dowel pin  $\varnothing$  d – DIN 1481 in the operating element (hand lever or foot pedal) and in the operating shaft.
- 2 Insert and drive in dowel pin  $\varnothing$  d – DIN 1481 into the bore hole  $\varnothing$  d H12 in the operating element (hand lever or foot pedal) and into the operating shaft.

#### ℹ NOTE

In the operating shaft a max.  $\varnothing$  8 H12 may be provided.

### 7.3 General information

#### ⚠ CAUTION

##### Damage to the seals of the linear actuator!

Unexpected lowering of the customer's construction due to leakage or locking.

- It is imperative to stick to the indicated gap between operating element and housing (min. 2 mm)!

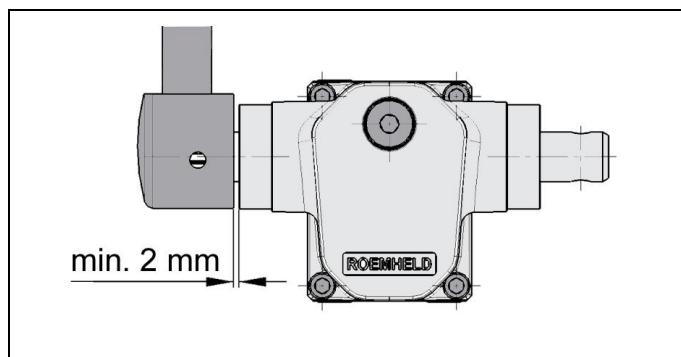


Figure 7: Min. gap of the operating element

### 7.4 Standard version

- 1 Preparation by the customer of the construction to mount the product. Pay attention to sufficient freedom of motion (min. 2 mm).
- 2 Put or press the customer's operating element (hand lever or foot pedal) onto the operating shaft of the product.
- 3 Insert and drive in dowel pin  $\varnothing$  d – DIN 1481 provided by the customer into the bore hole  $\varnothing$  d H12, in the operating

element (hand lever or foot pedal) and into the operating shaft.

- 4 Connect the product at both centring pivots  $\varnothing$  38 with the connecting construction of the customer.
- 5 Connect the product at the location hole  $\varnothing$  12 +0.1 of the plunger with the connecting construction of the customer by means of the customer's fixing bolts.
- 6 Extend and retract the product several times by actuating the customer's operating elements (hand lever or foot pedal).

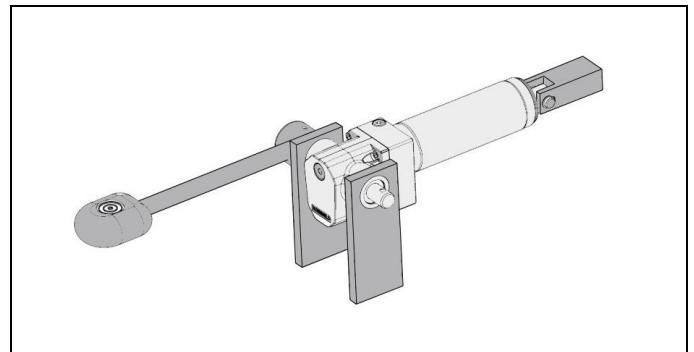


Figure 8: Installation of the standard version

### 7.5 Version for fork mounting

- 1 Preparation by the customer of the construction to mount the product. Pay attention to sufficient freedom of motion (min. 2 mm).
- 2 Put or press the customer's operating element (hand lever or foot pedal) onto the operating shaft of the product.
- 3 Insert and drive in dowel pin  $\varnothing$  d – DIN 1481 provided by the customer into the bore hole  $\varnothing$  d H12, in the operating

element (hand lever or foot pedal) and into the operating shaft.

- 4 Connect the product at the location hole  $\varnothing 12 +0.1$  of the fork with the connecting construction of the customer by means of the customer's fixing bolts.
- 5 Connect the product at the location hole  $\varnothing 12 +0.1$  of the plunger with the connecting construction of the customer by means of the customer's fixing bolts.
- 6 Extend and retract the product several times by actuating the customer's operating elements (hand lever or foot pedal).

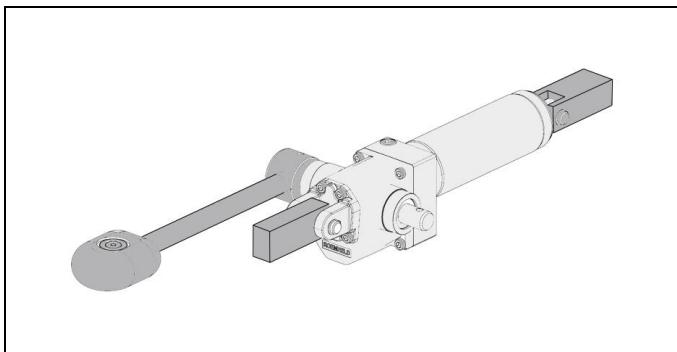


Figure 9: Version for fork mounting

## 7.6 Version for flange mounting

- 1 Preparation by the customer of the construction to mount the product. Pay attention to sufficient freedom of motion (min. 2 mm).
- 2 Put or press the customer's operating element (hand lever or foot pedal) onto the operating shaft of the product.
- 3 Insert and drive in dowel pin  $\varnothing d$  – DIN 1481 provided by the customer into the bore hole  $\varnothing d$  H12, in the operating element (hand lever or foot pedal) and into the operating shaft.
- 4 Connect the product at the location hole  $\varnothing 12 +0.1$  of the flange with the connecting construction of the customer by means of the customer's fixing bolts.
- 5 Connect the product at the location hole  $\varnothing 12 +0.1$  of the plunger with the connecting construction of the customer by means of the customer's fixing bolts.
- 6 Extend and retract the product several times by actuating the customer's operating elements (hand lever or foot pedal).

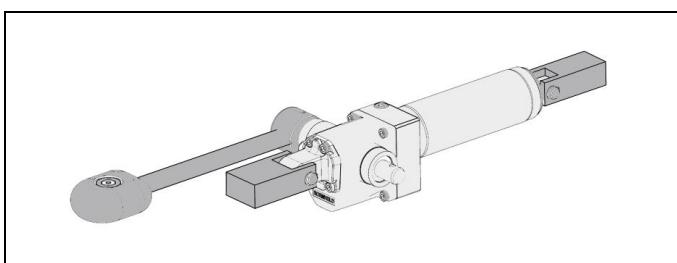


Figure 10: Version for flange mounting

## 8 Start up

### ⚠ WARNING

#### Injury by crushing!

Components of the product make a movement while they are in operation, this can cause injuries.

- Keep parts of the body and items out of the working area!

### ⚠ CAUTION

#### Function of the product!

If the product does not work perfectly, even if only partial stroke ranges are affected, the product must no longer be used.

- Observe the checking intervals.

#### Performance of the product!

The admissible performance data of the product, see chapter "Technical characteristics", may not be exceeded.

Before putting into operation the product, an installation inspection has to be made.

This comprises the following:

- No side loads may act on the product, if the operation shaft is not actuated.
- No torques may act on the product, if the operation shaft is not actuated.
- The product must be connected to the construction provided by the customer by means of secured fixing bolts.

If the above requirements are not met, the product must not be put into operation.

## 8.1 Operation

### ⚠ WARNING

#### Injury by crushing!

Components of the product make a movement while they are in operation, this can cause injuries.

- Keep parts of the body and items out of the working area!

#### Poisoning due to contact with hydraulic oil!

Incorrect use, wear, damage of the seals or ageing can lead to escapes of oil.

- For handling with hydraulic oil consider the material safety data sheet.
- Wear protection equipment.

### ⚠ CAUTION

#### Function of the product!

If the product does not work perfectly, even if only partial stroke ranges are affected, the product must no longer be used.

- Observe the checking intervals.

#### The product is not suitable for pull load.

If the plunger will be loaded by pulling and pulled out, air can enter into the hydraulic system and this can lead to malfunctions.

This can be eliminated by repeated extension and retraction of the actuator.

#### Performance of the product!

The admissible performance data of the product, see chapter "Technical characteristics", may not be exceeded.

**⚠ CAUTION**
**Max. adm. operating torque**

The maximum operating torque at the operating shaft must not be exceeded.

This can be achieved e.g. by limiting the operating stroke of the customer's operating element (hand lever or pedal) by the floor.

**8.1.1 Extending**
**NOTE**
**Restoring torque of the operating shaft**

- Pay attention to the max. restoring torque of the operating shaft as per chapter "Technical characteristics".

**Overload of the actuator**

- To avoid an overload of the actuator, external stops are to be provided for the operating elements in order to limit the pump angle to 40°. Also for extensions with far-off levers, supports for torque compensation have to be provided.

**8.1.1.1 All versions**

To extend the plunger the operating shaft has to be rotated several times counterclockwise (version **A**) or clockwise (version **D**) by approx. 40° by means of the operating element mounted by the customer (hand lever or foot pedal).

By means of a return spring the operating shaft and the mounted operating element of the customer will be returned to their off-position.

**NOTE**
**Restoring torque**

The restoring torque must not be exceeded by the operating element provided by the customer, otherwise the return to the off-position is not guaranteed.

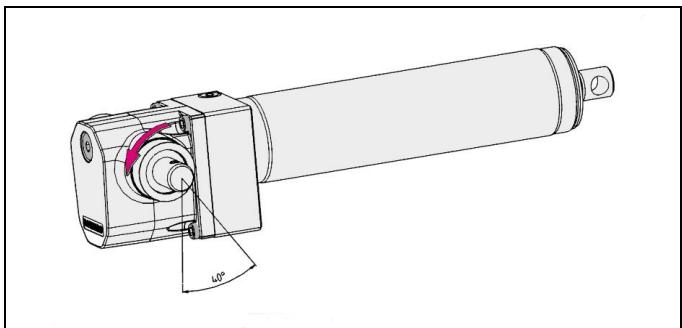


Figure 11: Extend by operating the operating shaft in operating direction A

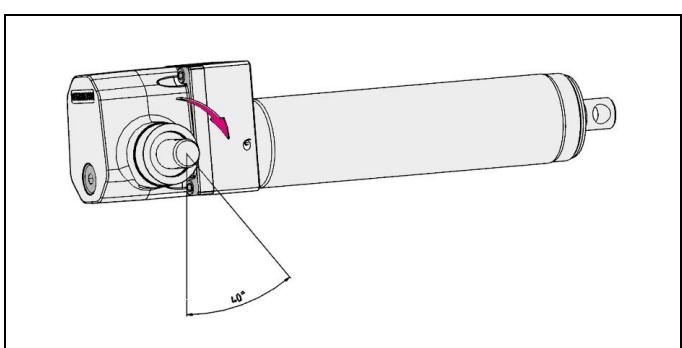


Figure 12: Extend by operating the operating shaft in operating direction D

**8.1.2 Retracting**
**NOTE**
**Retraction of the plunger**

- To retract the plunger a minimum push load according to the chapter "Technical characteristics" is required.
- The retracting speed of the plunger is to the greatest possible extend independent of the load.

**Restoring torque of the operating shaft**

- Pay attention to the max. restoring torque of the operating shaft as per chapter "Technical characteristics".

**8.1.2.1 Version with standard mounting, fork or flange mounting**
**NOTE**
**Restoring torque of the operating shaft**

- Pay attention to the max. restoring torque of the operating shaft as per chapter "Technical characteristics".

To retract the plunger the operating shaft has to be rotated several times clockwise (version **A**) or counterclockwise (version **D**) by approx. 10° by means of the operating element mounted by the customer (hand lever or foot pedal).

By means of a return spring the operating shaft and the mounted operating element of the customer will be returned to their off-position.

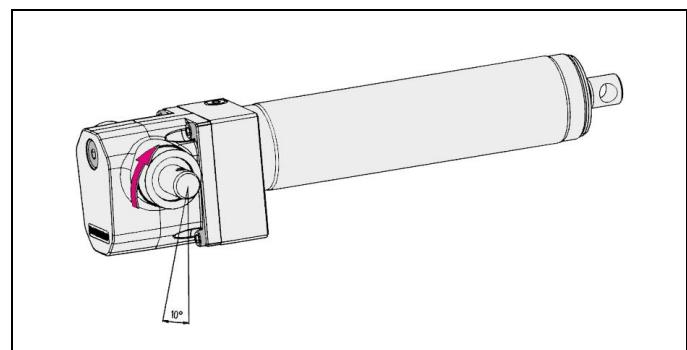


Figure 13: Retract by operating the operating shaft in operating direction A

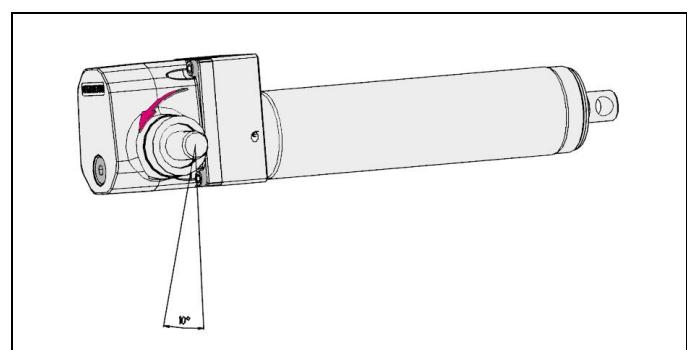


Figure 14: Retract by operating the operating shaft in operating direction D

**9 Maintenance**

The product is maintenance free within the indicated service life.

## 9.1 Cleaning / disinfection

### ⚠ CAUTION

#### Retract plunger while cleaning!

- For cleaning / disinfection the plunger should be retracted to avoid degreasing of the plunger.
- The product must not be cleaned with vacuum steam procedure, steam ray or high-pressure cleaner.
- Abrasives, scouring pads or other blunting materials must not be used.
- The cleaning agents must not contain corrosive or caustic ingredients.
- For cleaning / disinfection the environment temperature and the temperature of the cleaning agent of max. 70°C must not be exceeded.
- The application of cold water immediately after cleaning / disinfection is not admissible.
- Organic solvents as halogen or aromatic hydrocarbons and ketones must not be used for cleaning / disinfection.

#### Cleaning process!

The product must not be cleaned with:

- vacuum steam procedure, steam ray or high-pressure cleaner
- abrasives, scouring pads or other blunting materials
- cleaning agents with corrosive or caustic ingredients
- organic solvents as halogen or aromatic hydrocarbons and ketones (cellulose thinner, acetone, etc.), since this can damage the product.

## 9.2 M8XX XX X AXL 1X (unlacquered)

### ℹ NOTE

Before using this product the user has to check the usability of the product for its application by own durability and environment tests.

## 9.3 M8XX XX X AXL 2X- ...6X (unlacquered)

The product may be washed or disinfected by hand or in pressureless washing plants (max. 6 bar spray pressure) that are suitable for cleaning of hospital beds or similar equipment.

### ℹ NOTE

Before using this product the user has to check the usability of the product for its application by own durability and environment tests.

## 9.4 Service life

### M804XXXAXLXX and M806XXXAXLXX

The service life is designed for 20,000 cycles (extending/retracting).

### M809XXXAXLXX and M812XXXAXLXX

The service life is designed for 10,000 cycles (extending/retracting).

## 10 Testing intervals

### 10.1.1 Yearly checks

If the product has failed to pass the following tests, it may not longer be used!

In that case, the product has to be repaired or replaced by ROEMHELD service personnel.

We recommend yearly checks by a specialist. The following has to be checked:

### 10.1.2 Visual inspection

- Is the product at both sides of the centring pivot connected to the customer's construction?
- Are all fixing bolts of the customer available and secured?
- Are there any damages visible at the product?
- Does oil emerge from the product?

### 10.1.3 Functional check

- Is it possible to extend and retract the product several times by actuating the (hand lever or foot pedal) over the entire stroke?

## 11 Repair

### ⚠ WARNING

#### Injuries, material damages or malfunctions!

- The product must never be opened. At the product no changes must be made, except the ones expressly mentioned in the operating instructions!

### ⚠ CAUTION

#### Function of the product!

If the product does not work perfectly, even if only partial stroke ranges are affected, the product must no longer be used.

- Observe the checking intervals.

### ℹ NOTE

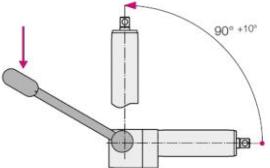
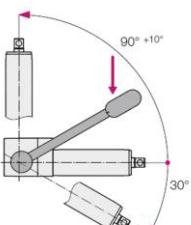
#### Repairs may only be performed by service technicians of Römhled

- Repair works, as e.g. the change of components may only be effected by the service technicians of the company Römhled.

## 12 Technical characteristics

### General characteristics

Max. adm. lifting force M8-04-XX-XA-X-L-X-X M8-06-XX-XA-X-L-X-X M8-09-XX-XA-X-L-X-X M8-12-XX-XA-X-L-X-X	[N]	4500 6500 9500 12500
Stroke M8-XX-08-XA-X-L-X-X M8-XX-14-XA-X-L-X-X M8-XX-20-XA-X-L-X-X M8-XX-25-XA-X-L-X-X	[mm]	80 - 4 140 - 4 200 - 4 250 - 4

Pump strokes M8-04-XX-XA-X-L-X-X M8-06-XX-XA-X-L-X-X M8-09-XX-XA-X-L-X-X M8-12-XX-XA-X-L-X-X	[per 100 mm]	7 $\pm$ 1 9 $\pm$ 1 13 $\pm$ 1 22 $\pm$ 1
Descent time M8-04-XX-XA-X-L-X-X M8-06-XX-XA-X-L-X-X M8-09-XX-XA-X-L-X-X M8-12-XX-XA-X-L-X-X	[ s/100 mm ]	4.5 $\pm$ 1 4.5 $\pm$ 1 4.5 $\pm$ 1 5.5 $\pm$ 1.2
Actuating torque of the operating shaft	[Nm]	0...160
Max. adm. actuating torque of the operating shaft ( <b>MB</b> ) (see figure)	[Nm]	180
Descent torque of the operating shaft	[Nm]	10...17
Max. adm. restoring torque of the operating shaft	[Nm]	6
Max. adm. torque at the fixing point ( <b>MF</b> ) (see figure)	[Nm]	40
Weight, approx. M8-XX-04-XA-X-L-X-X M8-XX-06-XA-X-L-X-X M8-XX-09-XA-X-L-X-X M8-XX-12-XA-X-L-X-X	[kg]	2.2 3.0 3.5 4.0
Colour M8-XX-XX-XA-X-L-1-X M8-XX-XX-XA-X-L-2-X M8-XX-XX-XA-X-L-3-X M8-XX-XX-XA-X-L-4-X M8-XX-XX-XA-X-L-5-X M8-XX-XX-XA-X-L-6-X	[ ]	unlacquered RAL 9016 RAL 9006 RAL 9005 RAL 7035 RAL 7038
Admissible mounting position for operating direction <b>A</b>		
Admissible mounting position for operating direction <b>D</b>		
Adm. environment conditions (storage and operation)	[°C]	+10 ...+40
Adm. cleaning temperature	[°C]	Up to +70°C
Adm. relative humidity	[%]	20...90% not condensing
Adm. environmental pressure	[hPa]	900...1060
Pressure at max. lifting force (inside)	[bar]	0...330
Burst pressure, min.	[bar]	990

Actuating frequency	[% ED]	20
Retracting the plunger	[N]	min. 100

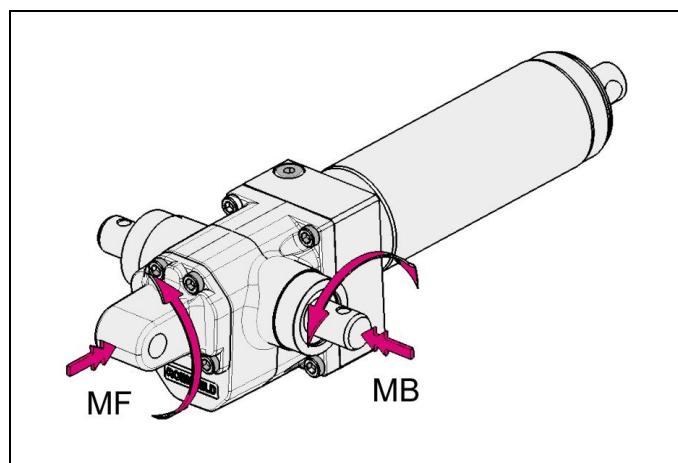


Figure 15: Torque at the operating shaft (MB) and fixing point, example flange type (MF)  
Operating direction **A**

### NOTE

#### Maximum torques

The indicated torques are the maximum torques required for operation. The return torque of the operating shaft for the pump stroke is max. 6 Nm. The return torque of the operating shaft for the descent is max. 2 Nm. The specified return torques must not be exceeded by the operating levers of the customer's construction. Otherwise, it could be possible that the operating lever will not be moved back to the off-position or an unintentional descent of the actuator could occur.

#### Specifications

- For further technical data see installation drawing of the product.

## 13 Disposal

### Hazardous to the environment

 Due to possible environmental pollution, the individual components must be disposed only by an authorised expert company.

The individual materials have to be disposed as per the existing regulations and directives as well as the environmental conditions.

Special attention has to be drawn to the disposal of components with residual portions of hydraulic fluids. The instructions for the disposal at the material safety data sheet have to be considered.

For the disposal of electrical and electronic components (e.g. stroke measuring systems, proximity switches, etc.) country-specific legal regulations and specifications have to be kept.

## 14 Declaration of incorporation

### Manufacturer

Römheld GmbH Friedrichshütte  
 Römheldstraße 1-5  
 35321 Laubach, Germany  
 Tel.: +49 (0) 64 05 / 89-0  
 Fax: +49 (0) 64 05 / 89-211  
 E-mail: info@roemheld.de  
 www.roemheld.com

### F = Bore hole operating shaft

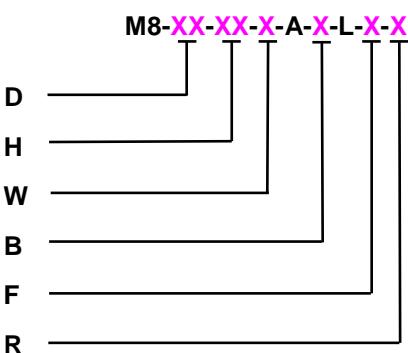
<b>1</b>	unlacquered
<b>2</b>	RAL 9016 traffic white
<b>3</b>	RAL 9006 white aluminium
<b>4</b>	RAL 9005 black
<b>5</b>	RAL 7035 light grey
<b>6</b>	RAL 7038 agate grey

**Responsible person for the documentation:**  
 Dipl.-Ing. (FH) Jürgen Niesner, Tel.: +49(0)6405 89-0.

This declaration of incorporation applies to the following products:

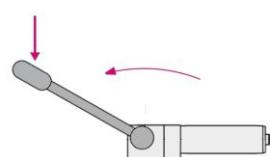
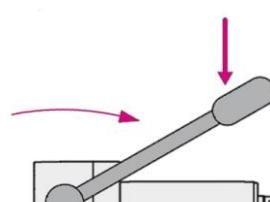
This documentation is valid for linear actuators RH 1250 of the types and/or part numbers:

**ID.**



### R = Operating direction

<b>A</b>	Pump lever counterclockwise
<b>D</b>	Pump lever clockwise

The listed products are designed and manufactured in line with the relevant versions of the directives **2006/42/CE** (EC-MSRL) and in compliance with the valid technical rules and standards. In accordance with EC-MSRL, these products are not yet ready for use and are exclusively designed for the installation in a machine, a fixture or a plant.

The following additional EU directives were applied:

- **2006/42/EC**, Machinery directive [[www.eur-lex.europa.eu](http://www.eur-lex.europa.eu)]

The following harmonised standards have been applied:

**DIN EN ISO 12100**, 2011-03, Safety of machinery; Basic concepts, General principles for design (replacement for part 1 and 2)

The products may only be put into operation after it was assessed that the machine, in which the product shall be installed, corresponds to the machinery directives (2006/42/EC).

The manufacturer commits to transmit the special documents of the products to state authorities on request.

The technical documentation as per appendix VII part B was prepared for the products.



Ewgeni Schleining  
 Development Team Leader MH

**Römheld GmbH**  
**Friedrichshütte**

Laubach, 21.05.2025

### H = Stroke

<b>08</b>	80 mm
<b>14</b>	140 mm
<b>20</b>	200 mm
<b>25</b>	250 mm

### W = Bore hole operating shaft

<b>1</b>	perpendicular to the plunger Ø 6 mm
<b>2</b>	parallel to the plunger Ø 6 mm
<b>3</b>	without bore hole

### B = Fixation

<b>S</b>	Standard
<b>G</b>	Fork (only up to 6500 N)
<b>F</b>	Flange (only up to 6500 N)

## 15 Declaration of incorporation

# UK

### Importer

Roemheld (UK) Limited  
 28 Knowl Piece, Wilbury Way,  
 SG4 0TY Hitchin

E-Mail: sales@roemheld.co.uk  
 www.roemheld.co.uk

**Authorised person to compile the technical documentation:**

Darren Rowell, 28 Knowl Piece, Wilbury Way, SG4 0TY  
 Hitchin.

This declaration of incorporation applies to the following products:

This documentation is valid for linear actuators RH 1250 of the types and/or part numbers:

ID.	M8-XX-XX-X-A-X-L-X-X
D	
H	
W	
B	
F	
R	

### D = Maximum lifting force (push force)

04	4500 N
06	6500 N
09	9500 N
12	12500 N

### H = Stroke

08	80 mm
14	140 mm
20	200 mm
25	250 mm

### W = Bore hole operating shaft

1	perpendicular to the plunger Ø 6 mm
2	parallel to the plunger Ø 6 mm
3	without bore hole

### B = Fixation

S	Standard
G	Fork (only up to 6500 N)
F	Flange (only up to 6500 N)

### F = Bore hole operating shaft

1	unlacquered
2	RAL 9016 traffic white
3	RAL 9006 white aluminium
4	RAL 9005 black
5	RAL 7035 light grey
6	RAL 7038 agate grey

### R = Operating direction

A	Pump lever counterclockwise
D	Pump lever clockwise

The following types or part numbers are concerned:

- We hereby declare that the machine described in its design and construction as well as in the version we have placed on the market complies with the essential health and safety requirements according to the following UKCA directives.

The following additional UKCA directives were applied:

- Directive 2008 No. 1597**, Health and Safety

The following harmonised standards have been applied:

**DIN EN ISO 12100**, 2011-03, Safety of machinery; Basic concepts, General principles for design (replacement for part 1 and 2)

The products may only be put into operation after it was assessed that the machine, in which the product shall be installed, corresponds to the Supply of Machinery (Safety) Regulations 2008, 2008 No. 1597.

The manufacturer commits to transmit the special documents of the products to state authorities on request.

The technical documentation as per appendix VII part B was prepared for the products.

SG4 0TY Hitchin, 21.05.2025



Darren Rowell  
 Managing Director,

**Roemheld UK Ltd**