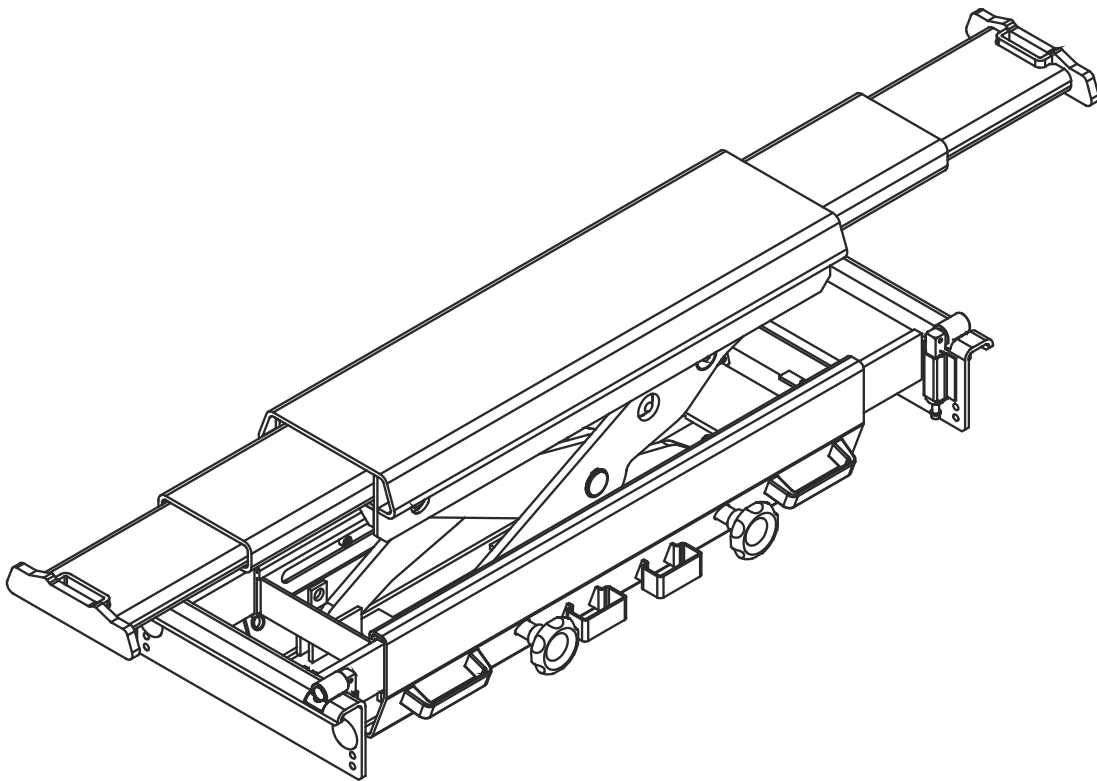


# Micro 20/26

## Air hydraulic scissor jack

### Operation and maintenance instructions

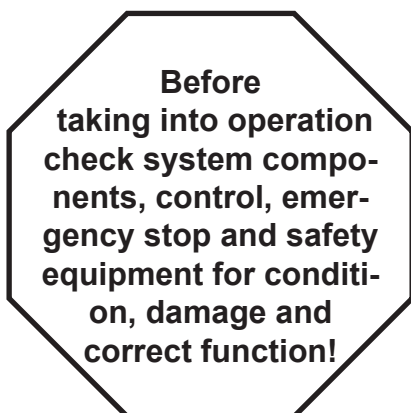
(TRANSLATED VERSION)



ALWAYS KEEP  
operating instructions  
ready to hand on the  
unit

Read the operating  
instructions before  
working with the  
unit

Manual no.: T62320-GB  
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# 1 General

## 1.1 Information about the operating manual

This operating manual describes the installation, operation and maintenance of the machine. Strict compliance with all the specified notes on safety and instructions is essential for safe working and proper handling of the equipment.

Apart from that, all accident prevention instructions valid at the place of use and the general safety regulations must also be adhered to.

This operating manual is part of the product and should always be kept in the immediate vicinity of the machine, accessible for the personnel entrusted with installation, operation, maintenance and cleaning.

For better representation of the explanations, the graphical artwork in this manual is not strictly according to scale, but may slightly vary from the actual design of the machine.

The operating manuals of the supporting components apply alongside this operating manual. Please observe the notes contained therein - especially the safety notes.

## 1.2 Warranty and liability

All information and notes in this operation manual are provided under due consideration of valid regulations, the latest technical status of development as well as our years of expertise and experience.

The translation of this operation manual has also been made to the best of our knowledge.

We do not accept any liability for errors in translation. The version marked of the operation manual marked with "Original version" on the front page of the operation manual supplied with the scissor jack shall be binding.

For optional design versions, the use of additional ordering options or the implementation of the latest technical modifications the actual scope of delivery may differ from the descriptions and illustrations in this manual. If you have any questions please contact the manufacturer.



### NOTE!

*This operation manual must be thoroughly read before starting any work with the equipment, especially before commissioning ! The manufacturer assumes no liability for damages or disruptions that occur as a result of non-compliance with the operation manual.*

This operation manual must be kept at the machine and accessible for all persons working on or with the machine. Handing over the manual to third party is not permitted and is subject for compensation. Further rights remain reserved.

We reserve the right to technical changes to the product within the framework of improving the usability and further development.

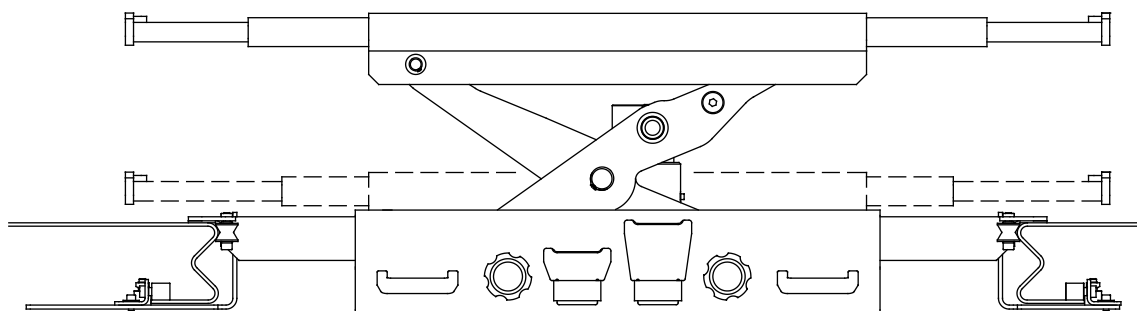
This scissor jack is guaranteed, covering faults due to manufacturing or material defects, provided that the installation, operation and maintenance instructions are observed. The warranty implies that during the warranty period the manufacturer is committed either to repair or to replace – after own decision - defective spare parts fitted in the scissor jack. No other warranty claim can be put in under warranty.

## 1.3 Spare parts

**IMPORTANT:** Spare parts used in the scissor jack are quality tested and comply with the criteria laid down in DS/EN 1494:2009. Please note that the use of safety spare parts or other essential components which do not fulfill these criteria may result in the type approval becoming void and the scissor jack will thereby no longer keep the safety regulations defined by the manufacturer together with the relevant authorities.

The manufacturer's product/deficiency liability and warranty cannot be claimed if concrete damages or failures are a result of the use of spare parts not originating from the factory.

## 2. Technical data



	<b>Micro 20</b>	<b>Micro 26</b>
Max. lifting capacity	2000 kg	2600 kg
Lifting time	27 sek.	23 sek.
Lowering time	5 sek.	5 sek.
Lifting height	300 mm	250 mm
Distance between platforms / pit edges*	855-1200 mm	855-1200 mm
Adjustment of extensions	792-1600 mm	792-1460 mm
Necessary air pressure (at jack)	Min. 5.5 bar (8 bar recommended)	Min. 5.5 bar (8 bar recommended)
Max. noise level	83 db (A)	83 db (A)

\* Depending on version

### 3. Operation

#### Raising with pads

1. Choose and place pad (pos. 5) according to vehicle to be lifted.
2. Turn lever (pos. 6) counter-clockwise.
3. Raise jack to a few centimetres under vehicle.
4. Pull extensions, including pads to lifting points.
5. Raise vehicle till it is free of platforms / floor and check that vehicle is still stable on pads.
6. Raise vehicle to working height.

#### Raising with differential pad

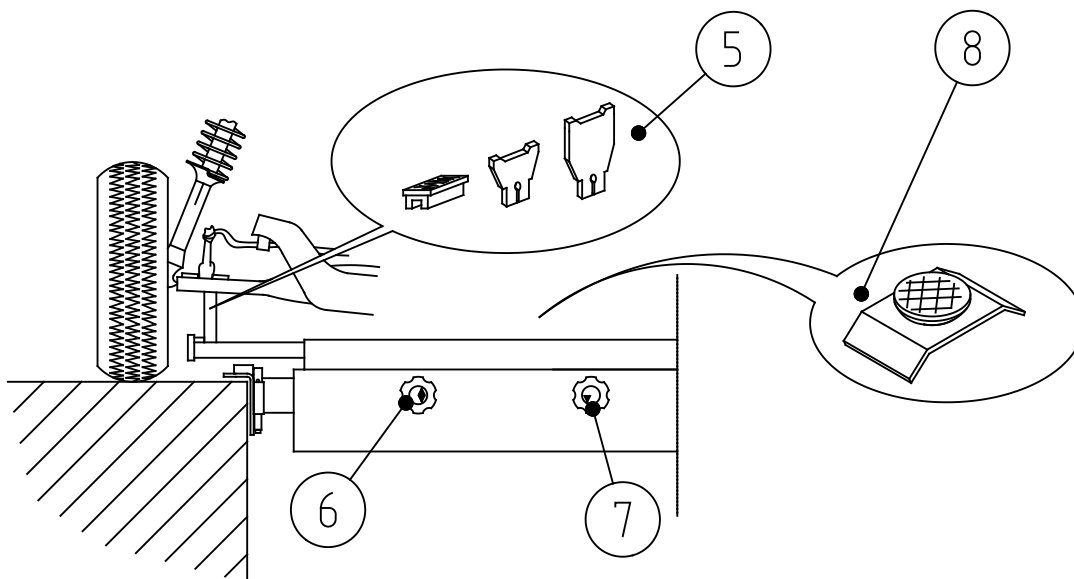
1. Place differential pad (pos. 8) on middle of jack.
2. Turn lever (pos. 6) counter-clockwise.
3. Raise vehicle till it is free of platforms / floor and check that vehicle is still stable on differential pad.
4. Raise vehicle to working height.

#### Stop

1. Let go of lever (pos. 6).

#### Lowering

1. Turn lever (pos. 6) clockwise simultaneously turning lever (pos.7) counter-clockwise.  
Regulate lowering speed with lever (pos. 6)



#### General

1. Never load jack one-sidedly; this might wreck the jack.
2. Never overload jack.

## 4. Maintenance

### 4.1 Maintenance

1. Grease roller areas for internal rollers once a year.
2. Check oil level in pump regularly: raise jack, dismantle axle between cross member and arm, dismantle cross member and lower to bottom position. Correct oil level is lower edge of filler neck. Fit oil plug; raise arms; fit cross member and axle.
3. When re-filling oil due to shortage, re-fill with hydraulic oil according to oil specifications.
4. Check regularly that safety device works correctly.

### 4.2 Cleaning

Cleaning of scissor jacks to prevent corrosion damages.

Corrosive fluids as brake fluid, oil, fuel or other solvents must be wiped off immediately, otherwise damage will occur to the coating.

Special attention must be paid to the corrosive effect of salt in fall and winter periods.

The cleansing agents must not have any abrasive effect, nor contain solvents.

The scissor jack must be cleaned at least once a week.

The scissor jack must be cleaned with a non-corrosive cleansing agent.

Clean and wipe the scissor jack according to the following scheme:

When:	Where:	How:	Remarks:
Every week	Upper plate	Clean and wipe	

The manufacturer does not accept any claim concerning the paint peeling off or corrosion damages caused by missing or insufficient cleaning or maintenance.

#### **Repair of damages:**

Repair of damages on the coating must be carried out immediately in order to minimize the extent of the repair.

#### **The damages will typically be:**

1. Damages which do not affect the metal surface but affects the coating itself
2. Damages going down into the metal surface.

#### **Repairs:**

Contact the manufacturer for guidance.

**Please state RAL number of paint.**

## 5. Malfunctions

### 5.1 Trouble-shooting chart

In the below chart the position numbers refer to the hydraulic and pneumatic diagram

Symptom:	Cause:	Remedy:
Jack will not raise <u>unloaded</u>	No air pressure	Make sure that there is the necessary air pressure at air connection of jack
	No oil	Re-fill with recommended oil type
	Lever does not activate air inlet	Adjust mechanism for air valve (pos. 12)
	Defective air-oil pump	Replace air-oil pump.
Jack will not raise <u>with load</u>	Overload	Max. load: Micro 20: 2T Max. load: Micro 26: 2.6T
	Air pressure less than 5.5 bar	Make sure that there is the necessary air pressure at air connection of jack
	Defective safety valve	Replace cone and spring
	Defective lowering valve	Adjust or replace valve (pos. 5)
	No oil	Re-fill with recommended oil type
	Leaky suction valve in oil pump	Replace valve
	Plugged exhaust filter	Clean filter, if necessary replace (pos. 10)
Jack will not stay up	Defective geared flow-restricting valve or lowering valve	Replace flow-restricting valve (pos. 2) and adjust; or replace lowering valve (pos. 5)
	Leaky cylinder	Replace seals (pos. 1)
Jack will not lower with load	Defective lowering valve	Adjust; if necessary replace (pos. 5 & 2).
Jack will not lower unloaded	Rubber ring (for transportation) on oil plug has not been removed	Remove rubber ring
	Incorrect adjustment of lowering valve	Re-adjust lowering valve (pos. 5)
	Defective flow-restricting valve	Replace flow-restricting valve (pos. 2)
	Jack is oblique	Rectify or replace scissor

## 6. Service

### 6.1 Spare parts ordering

To ensure correct deliveries of spare parts orders, please always state the following information: part number, designation, quantity (in the spare parts list) and serial number and year of manufacturing (on the name plate) of the scissor jack.

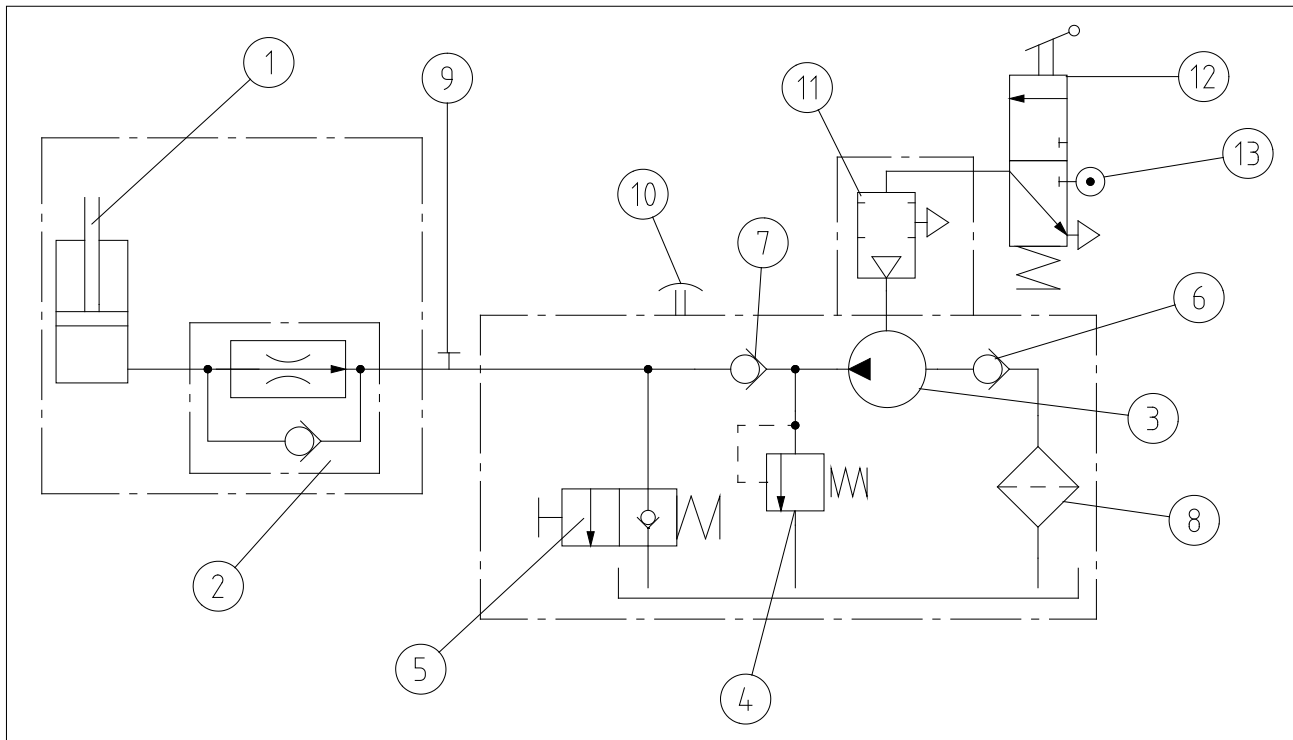
We offer for this jack a spare parts kit for the cylinder, comprising all necessary seals. Should the air-hydraulic pump need reconditioning we offer complete replacement pumps (kindly contact our service department).



## 7. Oil specifications

	- Semi-hydraulic lift (oil in lift cylinder)	- Full-hydraulic lift - High-pressure No lift - 4-post hydraulic lift - Mistral H - Multiflex	- Scissor lift (3T) - 2-post hydraulic surface-mounted - Micro 20/26	Lubrication oil for high-pressure lift
Additives:	Anti-foam, anti-corrosion, anti-oxidation			
Other characteristics:	Water-separating			
Viscosity: (cSt=mm <sup>2</sup> /s)	75-120 cSt (40°C)	215 cSt (0°C) 32 cSt (40°C)	140 cSt (0°C) 22 cSt (40°C)	65 - 110 (40°C)
Viscosity index:	Min. 90	150	90	min. 70
Pour point:	Max. -10°C	Max. -10°C	Max. -10°C	Max. -10°C
ARAL	Aral vitam gf 100			Aral konit 30
AVIA	Abilub hydr.oil rsl 100			Avilub mk 2000
BP	Energol hlp 100	Bratran hv 32/shf 32	Bartran hv 22	Vannellus m 2030
CHEVRON	Hydraulic oil 100	Mechanism lps 32		EP industrial oil 68
GALP	Hidrolep 100			NR 30
ESSO STATOIL	Nuto hp 100	Hydraway hv 32	Hydraway hv 22	Protectway 32
FINA	Hydran tsx 100	Hydran ts 32	Hydran ts 22	Arusan 30
GULF - Q8	Q8 haydn 100	Q8 haydn 32	Q8 haydn 22	Q8 wagner 68
MOBIL	Mobil dte 18	Mobil dte 24	Mobil dte 22	Mobilarma 524
NYNÄS	Td 39 ex			Td 31 ex
OK	Ok hydraulic oil 65	Super hydr. oil 32		Ultima eph 68
SHELL	Tellus oil (S) 100	Tellus oil 32	Tellus oil 22	Remula x 20 w
NOROL	Hydraulikolje hm 100			Lagringsolje sae 20
TEXACO	Rando oil 150	Rando oil hd 32	Rando oil hd 22	Regal oil R&O 100
IGOL	Sonhodro 100 / hydro 30			Relax
VALVOLINE	Ultramax hlp 100	Ultramax hvlp 32	Ultramax hvlp 22	Ultramax hlp 68
SUNOCO	Sonvis 8100 wr 100	Sunvis 832 wr-hv	Sunvis 822 we-hv	Sunfill 2630
CASTROL	Hyspin aws/awh 100	Hyspin awh 32	Hyspin aws 22	Rustilo 652

## 8. Hydraulic- & pneumatic diagram



- Item. 1: Cylinder
- Item. 2: Flow restricting valve
- Item. 3: Oil pump
- Item. 4: Excess-pressure valve
- Item. 5: Lowering valve
- Item. 6: Suction valve
- Item. 7: Non-return valve
- Item. 8: Oil filter
- Item. 9: Test point
- Item. 10: Air filter
- Item. 11: Air source
- Item. 12: Air valve
- Item. 13: Air connection