



## Accessories for Bicycle Assembly Fixtures

### Fixtures, clamping claws, holders and shelves

#### 1 Description of the product

##### 1.1 Universal fixture

The universal fixture is used to mount:

- Clamping claw "Var", part no. 6352912
- Clamping claw "Feedback", part no. 6352927
- 3-point pick-up, part no. 6352939

It can be mounted on the Bike proStand (see data sheet M9102).

The universal fixture with clamping claw is designed for user-friendly bicycle mounting and its safe handling.

The slots in the workpiece allow the bike to be rotated even without a rotating module.

Assembly fixtures with a rotary module allow for infinite rotation of the bicycle.

Furthermore, the clamping claw can be quickly replaced with other elements.

For bicycles with a maximum weight of 40 kg.

Maximum permissible torque generated by bike weight and assembly forces – 140 Nm.

##### 1.2 Clamping claws and holders for universal fixture

###### 1.2.1 Clamping claw "Var"

High-quality design with additional retaining holes for reliable use with universal fixture 6352919 on the electric rotation axis.

###### 1.2.2 Clamping claw "Feedback"

Mounting clamp, re-engineered with index bore for universal fixture 6352919

###### 1.2.3 3-point pick-up with self-locking for M9102

The 3-point pick-ups accommodate bicycles with a wide variety of frame shapes on the assembly fixtures.

Due to the large distances between the pick-up points, the forces at the support points are reduced and paint and sensitive materials are protected.

The sliding guide enables the bicycle weight to press the mandrel (Ø 80) forward, supporting the tensioning of the bicycle.

The pick-up is suitable for a bicycle weight of up to 40 kg.



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### 1.3 Clamping claws with flange for direct mounting

#### 1.3.1 Clamping claw "Var"

With flange and locking for direct mounting on the Bike pro Stand without rotation axis.

#### 1.3.2 Clamping claw "Park Tool"

With flange and locking for direct mounting on the Bike pro Stand without rotation axis.

### 1.4 Handlebar holder "Flop Stop"

With an adjusting range of 508–889 mm, the handlebar holder with its two rubber loops can be used as a universal helper for all assembly work.

### 1.5 Holder and shelves for M9102

- Tool holders
- Shelf for container for magnetic pieces
- Container for magnetic pieces, stainless steel (also for M4102)
- Container for magnetic pieces, vertical (for M4102)
- PC shelf
- Wall and ceiling mounting set
- Hook set

### 1.6 Adapter bracket for M9102

The adapter bracket combined with the Bike basicLift is used for direct mounting of many commercially available bicycle mounts and clamping claws.

### 1.7 Mandrels for M9701

Mandrels are suitable for clamping bicycles without touching the paint. The mandrel also has a groove to route cables of the electric circuit or the cable of drop posts even when unclamped.

## 2 Validity of the documentation

This document applies to the following products:

Components in data sheet M8902. The following types or part numbers are concerned:

#### Universal fixture

- 6352 919

#### Clamping claw "Var" for universal fixture

- 6352 912

#### Clamping claw "Feedback" for universal fixture

- 6352 927

#### 3-point pick-up for universal fixture

- 6352 939

#### Clamping claw "Var"

- 6352 925

#### Clamping claw "Park Tool"

- 6401 154

#### Handlebar holder "Flop Stop"

- 6352 910

#### Tool holders

- 6352 933

#### PC shelf

- 6352 922

#### Container for magnetic pieces, stainless steel

- 6352 908

#### Container for magnetic pieces, vertical

- 6352 928

#### Wall and ceiling mounting set

- 6352 923 (1 m set)
- 6352 924 (2 m set)

#### Hook set

- 6352 926

#### Adapter bracket

- 6313 1072K

#### Mandrels

- 6314 178
- 6314 489

### 3 Target group of this document

- Bicycle mechanic

#### Further qualification / age restrictions

The personnel must:

- be physically and mentally in the position to do the work required
- protect the working area as per the existing rules

The responsibility for different activities at the product have to be clearly defined and kept. Unclear competences are a security risk.

### 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.

### 6 Application

#### 6.1 Intended use

The products are used in the industrial/commercial sector as accessories for bicycle assembly fixtures.

In addition, use in compliance with the intended purpose includes:

- Use only within closed, low-dust rooms.
- Use within the capacity indicated in the technical data sheets.
- Use as described in the operating instructions.
- Have qualified and trained personnel carry out the corresponding activities.
- Mount spare parts only with the same specifications as the original part.

#### 6.2 Misapplication

#### **WARNING**

##### Injuries, material damages or malfunctions!

Modifications can lead to weakening of the components, reduction in strength or malfunctions.

- Do not modify the product!

The use of the products is not authorised:

- For domestic use.
- For use at fairgrounds and amusement parks.
- In food processing or in areas with special hygiene regulations.
- In mines.
- In ATEX areas (in explosive and aggressive environments, e.g. explosive gases and dusts).
- If physical effects (welding currents, vibrations or others) or chemically acting media damage the seals (resistance of the seal material) or components and this can lead to functional failure or premature failure.

**Special solutions are available on request!**

## 7 Installation

### 7.1 Universal fixture

For Bike proStand with and without rotation axis.

For fixing:

- Clamping claw "VAR", part no. 6352 912
- Clamping claw "Feedback", part no. 6352 927
- 3-point pick-up, part no. 6352 939

#### Design

Insert one of the provided washers **b** with the socket head cap screw M10x25 **c** into the universal holder **a** (see figure).

Coat the thread of the M10x25 socket head cap screw with a medium-strength thread locker.

#### NOTE

##### Use of thread locking!

- Installation without thread locking can lead to the screw loosening during use!

Fix the universal holder using the M10x25 socket head cap screw in the middle hole on the rotating module of the Bike proStand in such a way that the universal holder can still be rotated without play.

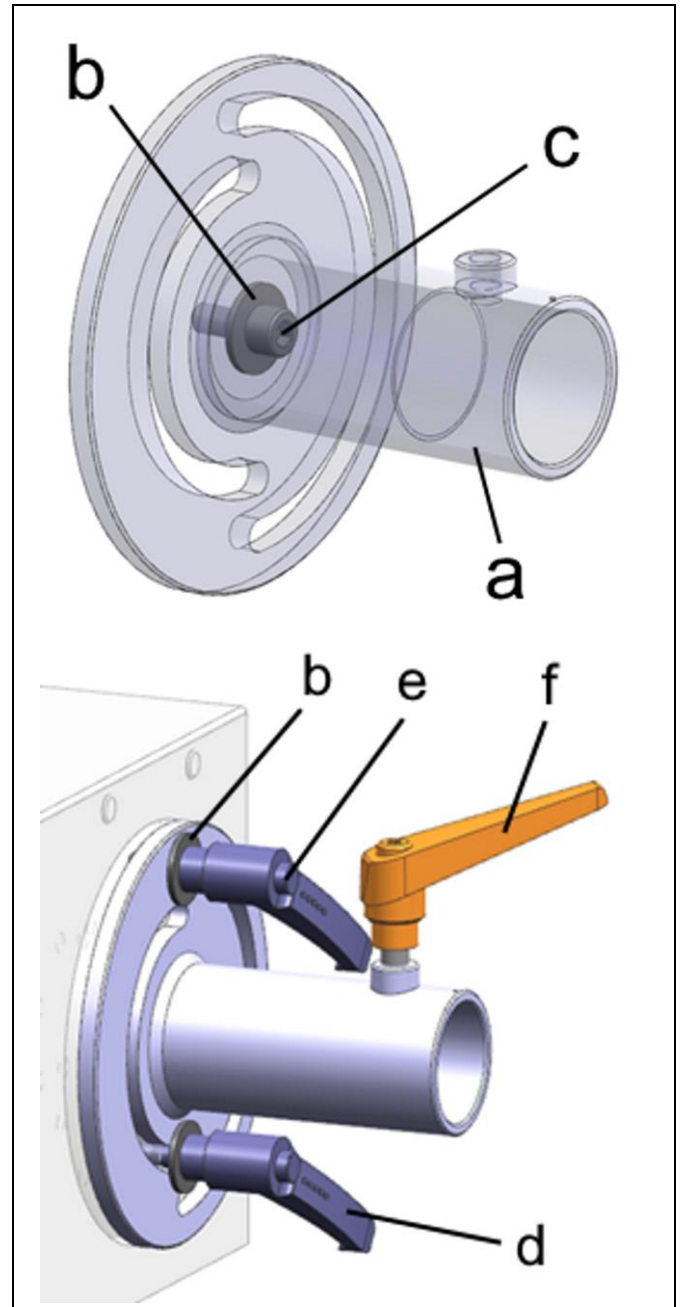


Fig. 1: Fixing the universal fixture

a Universal holder	d Clamping lever 1
b Washer	e Release knob on clamping lever 1
c Fixing screw M10x25	f Clamping lever 2

Mount washer **b** on both clamping levers **1 d** with M10 threaded insert and fix it in the corresponding holes on the rotating module. Press release button **e** on clamping lever 1. Mount clamping lever 2 **f** with M12 threaded insert using 2-3 turns.

### 7.1.1 Clamping claw "VAR" for universal fixture

With additional retaining holes for reliable use with universal fixture on the electric rotation axis.

The clamping claw can be turned by 90° in the universal claw.

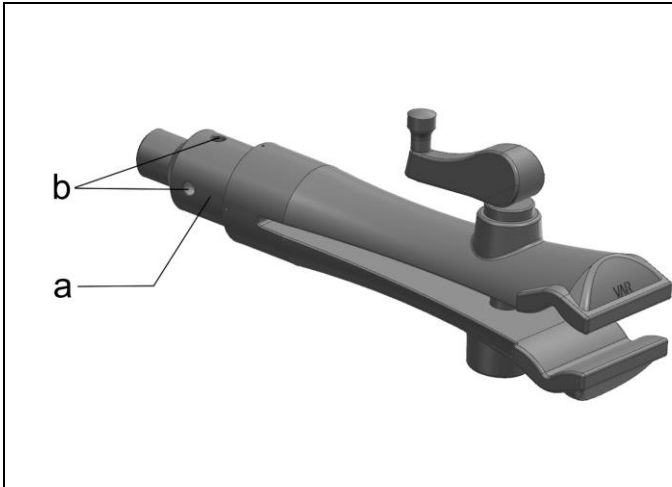


Fig. 2: Clamping claw "VAR" design

a	Holder for universal fixture
b	2 retaining holes, offset by 90°

### 7.1.2 Clamping claw "Feedback" for universal fixture

Mounting clamp with holder for universal fixture.



Fig. 3: Clamping claw "Feedback"

a	Holder for universal fixture
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### 7.1.3 3-point pick-up for universal fixture

Fix the 3-point pick-up with holder **b** in the universal fixture.

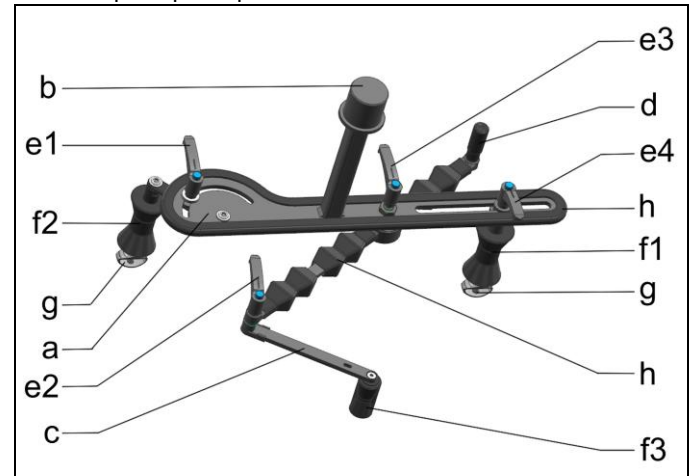


Fig. 4: 3-point pick-up

a	Frame	e	Clamping lever
b	Holder for universal fixture	f	Pick-up roller, flat/round
c	Swivel cantilever	g	Locking bolt
d	Handle	h	Edge protection

## 7.2 Clamping claw "VAR" for direct mounting

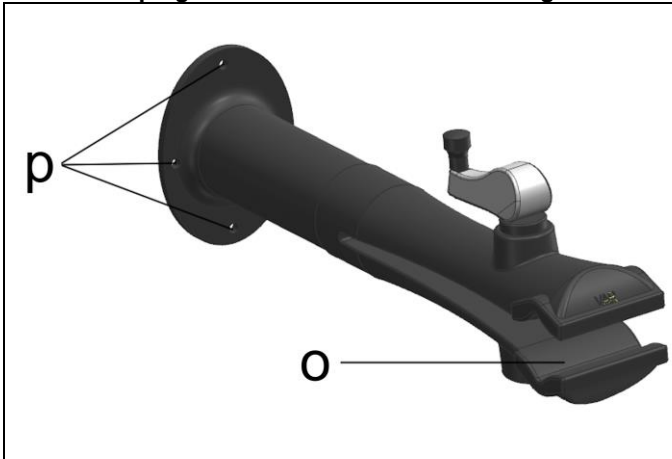


Fig. 5: Clamping claw "VAR"

o Bicycle mount	p Mounting holes
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## 7.3 Clamping claw "Park Tool" for direct mounting

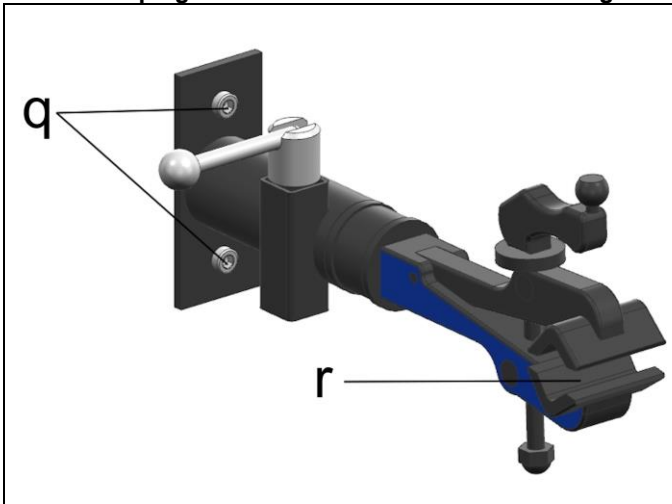


Fig. 6: Clamping claw "Park Tool"

q Fixing screws	r Bicycle mount
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## 7.4 Wall and ceiling mounting set for Bike proStand

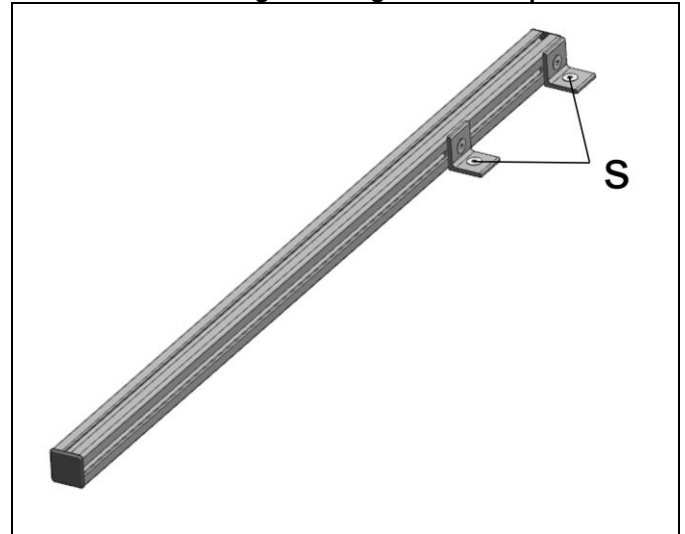


Fig. 7: Wall and ceiling mounting set

s Fixing screws
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## 7.5 Adapter bracket for Bike basicLift

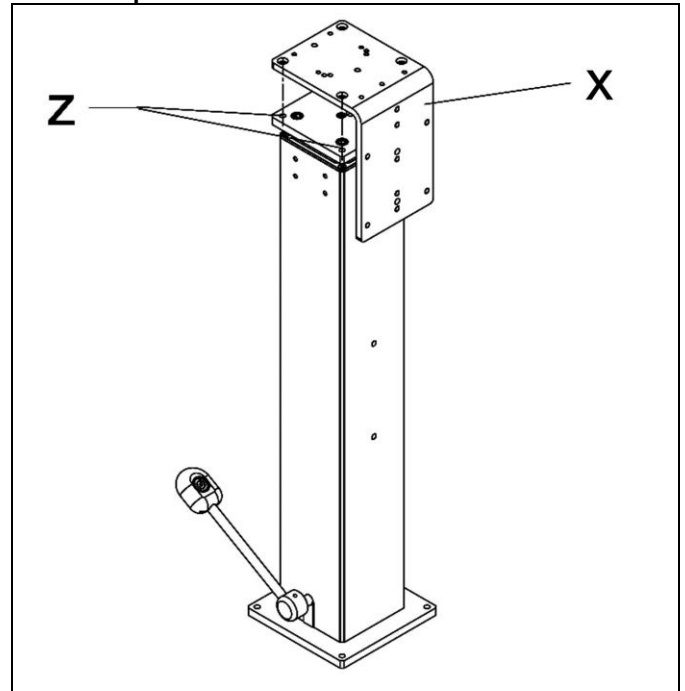


Fig. 8: Adapter bracket

z Mounting holes	x Adapter bracket including fixing screws
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## 8 Operation

### 8.1 Universal fixture with clamping claw

#### **WARNING**

**People can be harmed.**

Bicycle frame could fall.

Before rotating the bike, check that the clamping claw is adequately secured.

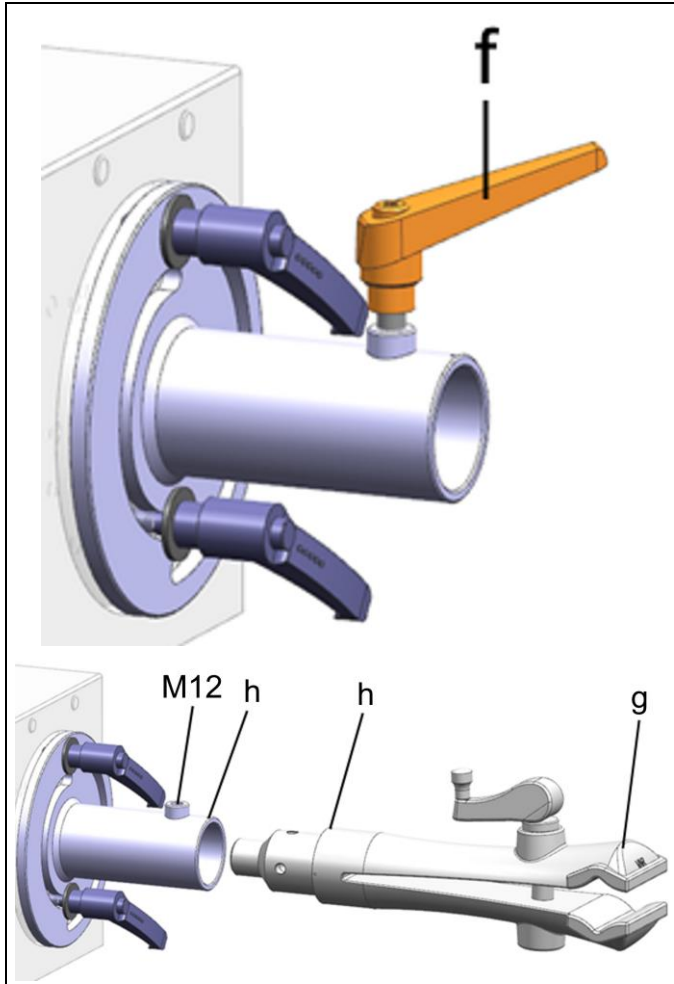


Fig. 9: Mounting the clamping claw

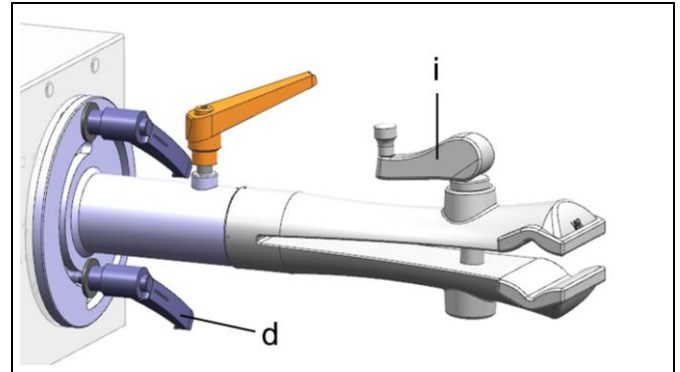
f	Clamping lever	h	Markings
g	Clamping claw		

Before inserting the clamping claw **g** into the universal fixture, loosen or remove the clamping lever **f** with the **M12** threaded insert.

Align the holes on the claw to match the M12 threaded hole on the universal fixture and insert it into the universal holder as far as it will go.

Markings **h** on the universal holder and the clamping claw should be positioned opposite each other.

If necessary, the clamping claw can be rotated by 90°.



To make it easier to hold the bike in the clamping claw, follow these steps:

1. Before picking up a bicycle in the clamping claw, bring it into a suitable position using the rotating module and open the lever **i**.
2. Loosen both clamping levers **d**.
3. Hook the bicycle into the clamping claw and fix it using the lever **i**.
4. Fix both clamping levers **d**.

## 8.2 3-point pick-up with self-locking for universal fixture

### **WARNING**

**People can be harmed.**

Bicycle frame could fall.

Make sure the bicycle frame sits firmly on the 3 pick-up reels/mandrels.

#### **3-point pick-up overloaded**

If the 3-point pick-up is overloaded, it can break.

- The maximum workpiece weight of 40 kg must not be exceeded.

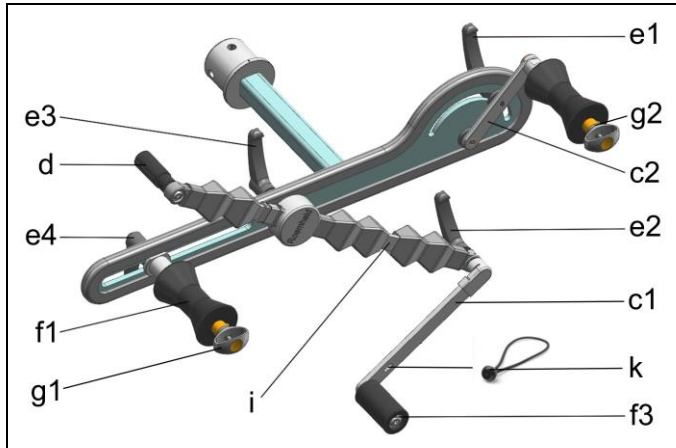


Fig. 10: 3-point pick-up

Select the right roller for the bicycle frame; the roller can be replaced by unlocking locking bolt g.

In order to be able to hold the bicycle frame safely, please carry out the following points:

1. Release clamping lever e2, fold rocker arm c1 upwards, fix clamping lever e2.
2. Release clamping lever e3, move swivel arm i upwards, fix clamping lever e3
3. Loosen clamping lever e1 and fix tilting lever c2 in a position of approx. 45°.
4. Loosen lever e4 (left), roughly preset the left roller
5. Position the bike on rollers f1
6. First loosen the clamping lever of the left roller and move the roller to the corner of the bicycle frame.
7. Loosen the right roller clamping lever.

The bike's own weight pushes the roller into the corner of the frame.

Fix the clamping lever of the right roller.

8. Loosen clamping levers e2 and e3, position swivel arm i so that it can be guided past any add-on parts.
9. Use swivel arm i on handle d to move roller f3 into the lower corner of the bicycle frame above the bottom bracket and pre-tension it slightly.
10. First adjust roller f3 to the profile of the bottom bracket by rotating it.

If the 3-point pick-up is to be operated in an assembly fixture with a rotating module, the bicycle frame must be additionally secured to the lower roller using rubber tensioner k.

Thread rubber tensioner k into the slot on the swivel arm i.

### **CAUTION**

**Cables, hydraulic hoses or electrical cables on the bicycle can be damaged.**

Pay attention to possible damage to cables, hydraulic hoses or electrical cables.

If necessary, adjust the pick-up roller in the horizontal slide.

### **NOTICE**

If necessary, the bicycle frame can also be fixed to the support rollers using a clamping strap/Velcro tape.

### 8.3 Mounting the mandrel

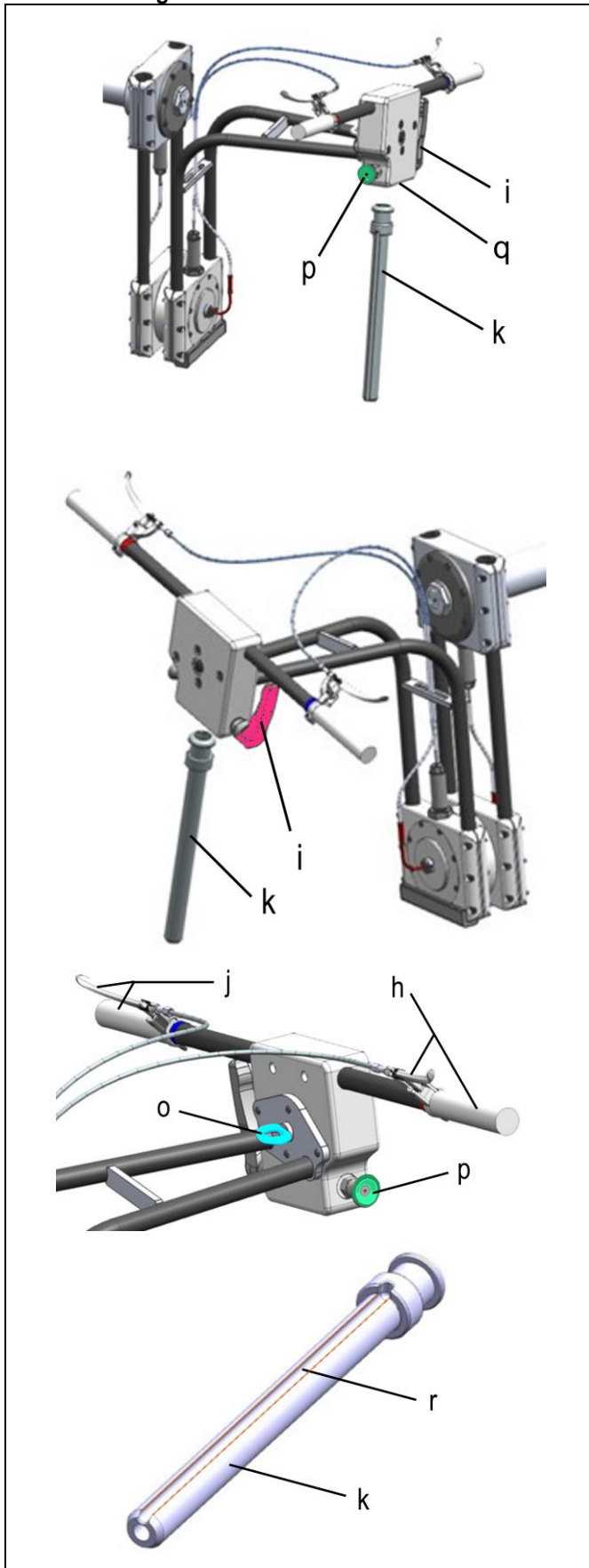


Fig. 11: Example of swivel fixture with mandrel

i	Clamping lever	q	Bore hole for bicycle mount
k	Mandrel	r	Slot for hard wired connection to external battery
o	Eye screw for securing the bicycle		
p	Locking bolt		

To mount the mandrel, loosen the turning knob **i** (approx. 4 turns).  
Insert the mandrel **k** (with or without a bicycle frame) into the clamping adapter holder **q** until the locking bolt **p** engages securely.  
Fix the clamping adapter using the turning knob.  
Pull the turning knob forward axially and align it upwards (see Fig. 5).  
Eye screw **o** is used to attach the customer's bicycle lock.  
The cable to the external battery can be laid in the slot **r**.

To remove the mandrel, loosen the turning knob (approx. 4 turns).  
Push the mandrel upwards to disengage the locking bolt.  
Pull out the locking bolt.  
Remove the mandrel downwards. Make sure that it is not tilted excessively.  
Removing the mounted bicycle can be made easier if it is supported with the front wheel on the floor.

## 9 Maintenance

### 9.1 Cleaning

#### **CAUTION**

##### **Material damage, damage or functional failure**

Aggressive cleaning agents can cause damage, especially to seals.

The product must not be cleaned with:

- corrosive or caustic substances or
- organic solvents such as halogenated or aromatic hydrocarbons and ketones (cellulose thinner, acetone, etc.).

Clean products regularly to remove dirt and dust using cleaning cloths or cleaning rags.

**3-point pick-up:** Occasionally lubricate the surface of the slides with multi-purpose grease.

## 10 Technical characteristics

### General characteristics of the universal fixture

Material: steel, galvanized  
Weight: 2.2 kg  
Part no. 6352919

### General characteristics of clamping claw "VAR"

Material: clamping carrier of aluminium die-casting,  
Black lacquered  
Weight: 3.0 kg  
Part no. 6352912

### General characteristics of clamping claw "Feedback"

Material: clamping carrier of aluminium die-casting,  
Black lacquered  
Weight: 2.5 kg  
Part no. 6352927

### General characteristics of 3-point pick-up

Max. bicycle weight 25 kg  
Infinite rotation of bicycle pedal possible  
Weight 5.5 kg  
Part no. 6352939

### General characteristics of clamping claw "VAR"

For direct mounting  
Material: clamping carrier of aluminium die-casting,  
Black lacquered  
Weight 6.0 kg  
Part no. 6352925

### General characteristics of clamping claw "Park Tool"

For direct mounting  
Material: clamping carrier of aluminium die-casting,  
Black lacquered  
Weight 4.1 kg  
Part no.: 6401154

### General characteristics of handlebar holder

Material: Aluminium, rubber  
Weight: 0.160 kg  
Adjusting range: 508 – 889 mm  
Part no. 6352910

### General characteristics of tool holder

Material: steel, black-lacquered  
Weight: 0.47 kg  
Part no. 6352933

### General characteristics of PC shelf

Material: anodized aluminium  
Weight: 1.0 kg  
Part no. 6352922

### General characteristics of container for magnetic pieces, stainless steel

Weight: 0.6 kg  
Part no. 6352908

### General characteristics of container of magnetic pieces, vertical

Material: ABS plastic  
Weight: 0.38 kg  
Part no. 6352928

### General characteristics of wall and ceiling mounting set

Material: anodized aluminium  
Part no. 6352923 (1 m)  
Part no. 6352924 (2 m)

### General characteristics of hook set

Weight: 0.15 kg  
Part no. 6352926

### General characteristics of adapter bracket

Material: steel, galvanized  
Weight: 6.9 kg  
Part no. 63131072K

### General characteristics of mandrel

Material: stainless steel  
Weight: 1.25 kg  
Part no. 6314178

## Proposal, tightening torques for screws of tensile strength 8.8, 10.9, 12.9

### NOTE

The indicated values are approximate values and have to be interpreted according to the user's application!  
See note!

Thread	Tightening torque [Nm]		
	8.8	10.9	12.9
M3	1,3	1,8	2,1
M4	2,9	4,1	4,9
M5	6,0	8,5	10
M6	10	15	18
M8	25	36	45
M10	49	72	84
M12	85	125	145
M14	135	200	235
M16	210	310	365
M20	425	610	710
M24	730	1050	1220
M30	1,450	2100	2450

**Note:** Valid for workpieces and set screws made of steel with metric thread and connecting surface dimensions as per DIN 912, 931, 933, 934 / ISO 4762, 4014, 4017, 4032  
In the table values for tightening torques the following is considered:  
Design steel/steel, friction value  $\mu_{ges} = 0.14$  - not oiled, utilisation of the minimum yield point = 90%.

### NOTE

#### Further information

- For further technical data see ROEMHELD data sheet. M8902

## 11 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.

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.

## **12 Declaration of manufacture**

### **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

### **Responsible person for the documentation:**

Dipl.-Ing. (FH) Jürgen Niesner, Tel.: +49(0)6405 89-0.

### **Declaration of manufacture of the products**

They are designed and manufactured in line with the relevant versions of the directives **2006/42/EC** (EC MSRL) and in compliance with the valid technical rules and standards.

In accordance with EC-MSRL, these products are components that are not yet ready for use and are exclusively designed for the installation in a machine, a fixture or a plant.

The products may only be put into operation after it was assessed that the incomplete machine / 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.

Laubach, 24.01.2025