



Mechanical Mounting Stand for Bikes

Ref.no. 589 4736

Translation of the original manual

Issued : 07/2010

Machine no. : MBM 0021410 - 0511410



Keep this manual for future reference

Manufacturer: Weilhammer Maschinenbau GmbH
84405 Dorfen

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1. General information, correct use

The mechanical mounting stand for bikes (with three-point-support) is designed to secure a bicycle frame in order to lift and to swivel it into an ergonomic working position.

With its three adjustable carrying rollers or mandrels (optional), the stand can secure bicycle frames without looseness, and therefore is suitable for pressure-sensitive carbon or aluminium frames.

Using a pedal and a deflection pulley, the stand makes it possible to lift even heavy bicycles (up to 35 Kg, e.g. including electric motor) without great effort.

1.1 Warranty and liability

In principle, our general terms of sales and delivery are applicable. These are available to the operator. Warranty claims and liability are excluded for personal injuries and material damage which are due to one or several of the following causes:

- Incorrect use of the “mechanical mounting stand for bikes“.
- Disregard of the instructions given in this manual with reference to safety, handling and maintenance.
- Arbitrary alterations to the device.
- Inexpert repairs.
- Accidental damage caused by foreign bodies and undue force.

2. Safety instructions



Caution!

Make sure that the bicycle frame is correctly seated on the three carrying rollers. It may fall down and be damaged.



Caution! *Tilting risk!*

When fastening the device to the floor, never exceed the safe floor-load. You can also use the base plate (option).



Caution! *Risk of material damage!*

Always lock the clamping lever for lifting and lowering before releasing the pedal.

- This prevents the safety mechanism from engaging suddenly. Otherwise, too much stress may be put on the holding screw of the swivelling mechanism. The safety mechanism prevents accidental lowering when the user's foot slips off the pedal.
- Hold on to the handle while operating the pedal. Keep your hands clear of the space between the cover brushes.
- Max. load bearing capacity 35 kg (350N).



Caution! *Risk of material damage!*

Never use a hammer to remove the bike pedal bottom bracket ball bearings, but use a pull-off tool.

- Otherwise, the swivelling mechanism may be bent or damaged (as the bicycle is fastened to it without any looseness, and any impact is directly transmitted to the swivelling mechanism).
- This manual explains the correct handling of the device. It should be studied before the device is used for the first time, and be read regularly when the device and its accessories are used.
- Besides the explanations and safety instructions in this manual, the user must take account of the precautions relating to the use of all technical devices.
- Always keep the user's manual accessible to the operators.
- Whenever the device is sold again, pass this manual on to the new owner.
- Observe the relevant regulations for the prevention of accidents.
- We reserve the right to carry out modifications which we consider to be technically advantageous.

3. Technical data

| | |
|-----------------------------|---|
| Dimensions: | length 500 mm x width 660 mm x height 1520 mm |
| Weight: | 53 Kg |
| Max. Load bearing capacity: | 35 Kg (350N) |

4. Operating elements

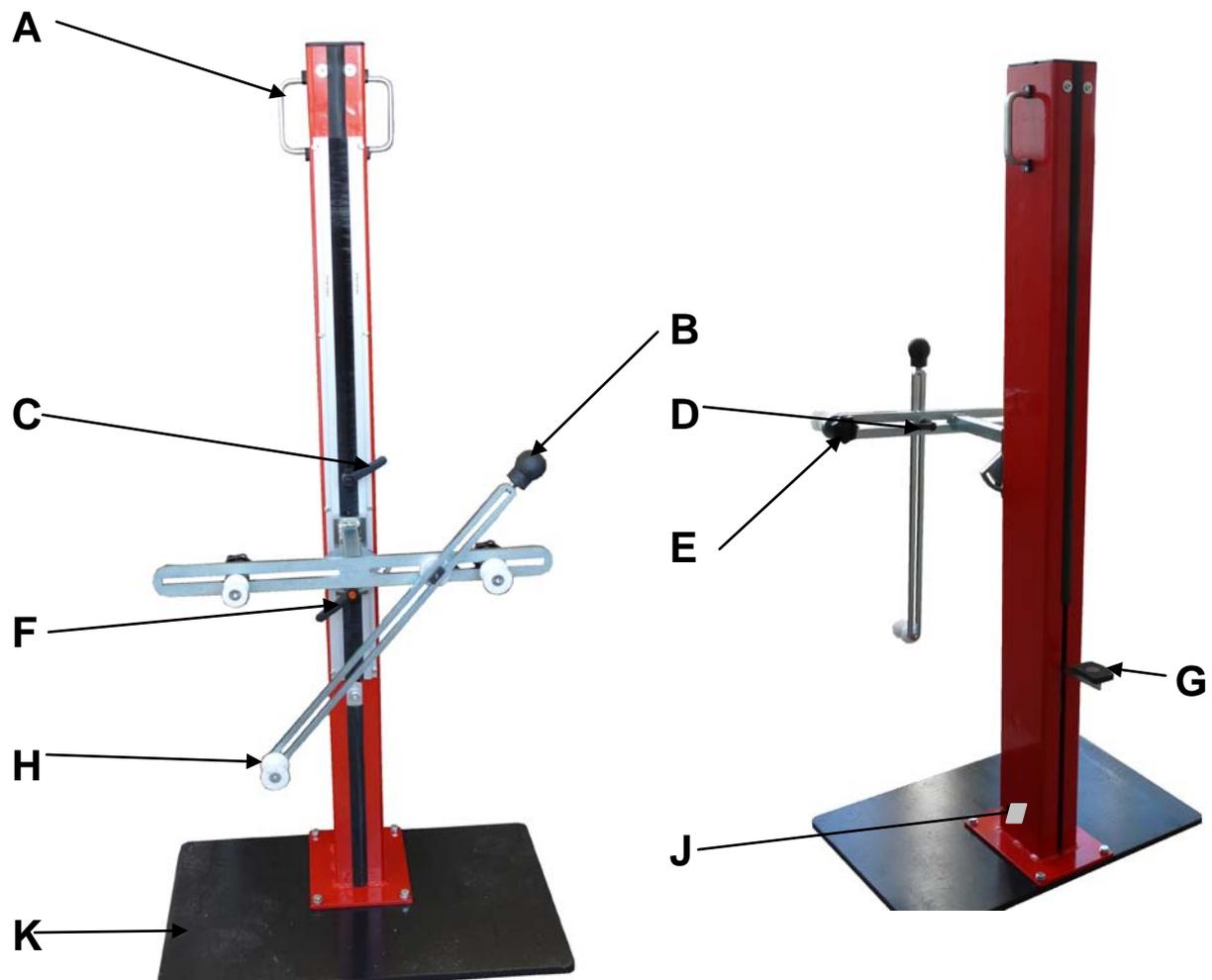


fig. 1

| Pos. | description |
|------|-------------|
|------|-------------|

| | |
|---|---|
| A | handle |
| B | ball handle |
| C | clamping lever for lifting and lowering |
| D | clamping lever for carrying roller |
| E | star knob |
| F | clamping lever for swivelling mechanism |
| G | pedal |
| H | carrying roller |
| J | data plate |
| K | base plate (option) |

Optional accessories

- Base plate ref.no. 589 4738
750mm x 500mm x 15 mm; weight 45 Kg
- Universal holding pin (3 pcs.) ref.no. 589 4739
(also see page 7)

5. Handling

- Zero position; swivelling mechanism lowered. (fig.2)
- Roughly pre-adjust the three-point-support. To this end, push the right carrying roller outwards to the right as far as possible, then lock it with the star knob. (fig.2)

fig.2



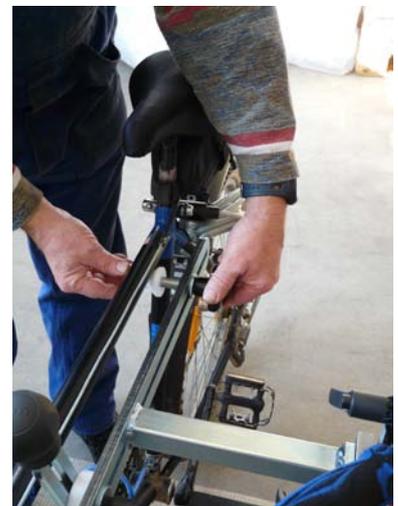
- Lift the bicycle and hang it onto the three-point-support. (fig.3)
- In case of heavy electric bicycles, first hang the handlebar onto the front carrying roller, then lift the back side of the bike and fasten it onto the second carrying roller.

fig. 3



- Shift the second carrying roller outwards into the appropriate position, then lock it with the star knob so as to secure the bicycle frame without looseness. (fig.4)

fig.4



- Fit the lower carrying roller into the angle between the seat tube and the down tube. (fig.5)

fig.5



- Correctly lock the clamping lever for carrying roller. (fig.6)



fig.6

- Release the clamping lever for lifting and lowering, and press the pedal down, until the desired repair position is reached. (fig.7)



Caution! Risk of entrapment!

- Grab the handle and not the front part or the gap between the cover brushes. (fig.8)



Fig.7



Caution! Risk of material damage!

- **First**, close the clamping lever for lifting and lowering, then release the pedal. (fig.8)



fig.8

- Swivel the bicycle into the repair position. To this end, operate the clamping lever for the swivelling mechanism. (fig.9)



fig.9

- To lower the bicycle, keep the pedal pressed, then open the clamping lever for lifting and lowering, and slowly lower the bicycle. (fig. 11 and 12)
- When lowering extremely light-weight bicycles, exert less counter-pressure on the pedal, depending on the weight of the bicycle. If necessary, put additional pressure on the three-point-support manually, otherwise, the catch of the safety mechanism may engage in the guide unit, and block the vertical movement.



fig.11

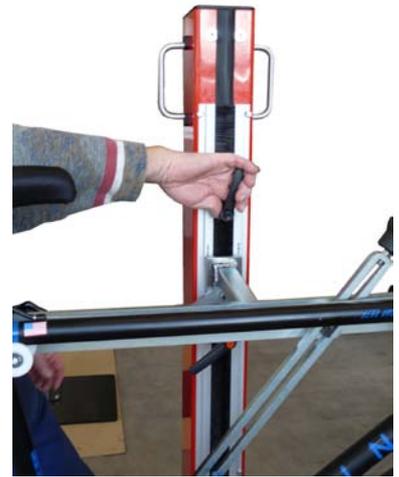


fig.12

- Loosen the star knobs and release the clamping lever for the carrying roller. Then push the carrying roller inwards, slightly tilt the bicycle, and roll it away. (fig.13)



fig.13

- In order to handle bulky frames that cannot be secured with the carrying rollers, the carrying roller can be exchanged for the rubber-lagged universal holding pin.
(Available as an option, set of 3 pcs., ref.no. 589 4739)



fig.14

- To this end, loosen the star knob, then exchange the carrying roller for the universal holding pin. (fig.14 and 15)



fig.15

6. Maintenance

- Regularly clean off dirt and dust from the device.
- Occasionally lubricate the swivelling mechanism with universal grease.
- Once a year, make sure that the M10 lock nut of the swivelling mechanism is seated correctly.

7. Waste disposal

Carrying and other rollers on the guide carriage = plastic POM
Clamping lever, ball handle, star knobs, cover = plastic PA and/or PP
Rubber cover profile = CR (neoprene)
Brush fastening rail and handles = aluminium
Further parts = steel scrap

Transport parts to authorized waste disposal area.

8.1. Checking winch cable

In order to avoid personal injuries or material damage, the operator of the winch cable must keep the device serviceable and in correct working order.

The winch cable must be inspected by an expert on a regular basis depending on operating conditions (minimum once a year). (Annual operating safety inspection according to the German "UVV BGR500-Teil 1" regulations)

Experts are persons who due to their special training and experience have sufficient knowledge in the field of cable winches, lifting and lashing equipment, and are familiar enough with the relevant directives, labour protection regulations, regulations for the prevention of accidents, and the generally recognized rules of the art to be able to evaluate the state of the equipment.

Any defects found must be repaired immediately.

8.2 Checking cable winch

Steel cable:

- Check the steel cable for broken wires.
- Check the steel cable for kinks; make sure that it has an even twist.
- Check the clamping bushing and the cable pressing at the grommet thimble.

Fasteners:

- Check the grommet thimble, the cable clamp and the deflection pulley for breakage, wear and tears.

Operating elements

- Check the pedal for tears or breakage.

Fastening screws:

- Check the fastening screws for tightness and good frictional condition.
- Check the supporting structures such as girders, spars etc. for kinks; make sure that they have sufficient bearing capacity.
- Check the device for rust and corrosion.

8.3 Checklist winch cable

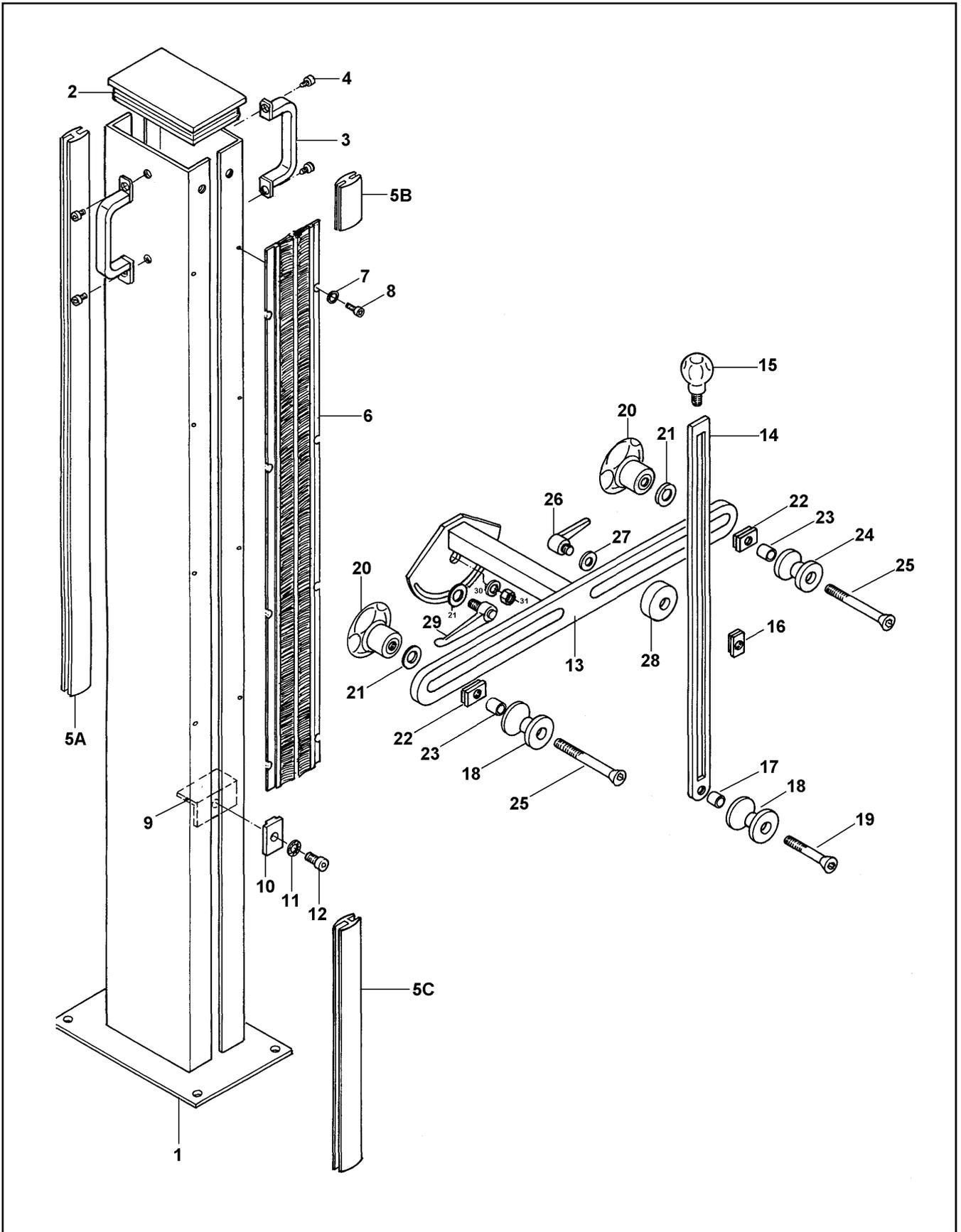
| | Date | | Date | | Date | |
|--|------|----|------|-----------|------|----|
| | | | | | | |
| | Ok? | | Ok? | | Ok? | |
| Steel cable | | | | | | |
| Individual wires checked | Yes | No | Yes | No | Yes | No |
| Steel cable checked for kinks | Yes | No | Yes | No | Yes | No |
| Pressing checked | Yes | No | Yes | No | Yes | No |
| Fasteners | | | | | | |
| Grommet thimble | Yes | No | Yes | No | Yes | No |
| Cable clamp | Yes | No | Yes | No | Yes | No |
| Cabel rollers | Yes | No | Yes | No | Yes | No |
| Operating elements | | | | | | |
| Pedal checked | Yes | No | Yes | No | Yes | No |
| Clamping lever checked | Yes | No | Yes | No | Yes | No |
| Fastening screws and frame | | | | | | |
| Screws checked | Yes | No | Yes | No | Yes | No |
| Supporting structures and mounting parts checked | Yes | No | Yes | No | Yes | No |
| Device checked for rust and corrosion | Yes | No | Yes | No | Yes | No |
| | | | | | | |
| Name of tester | | | | Signature | | |

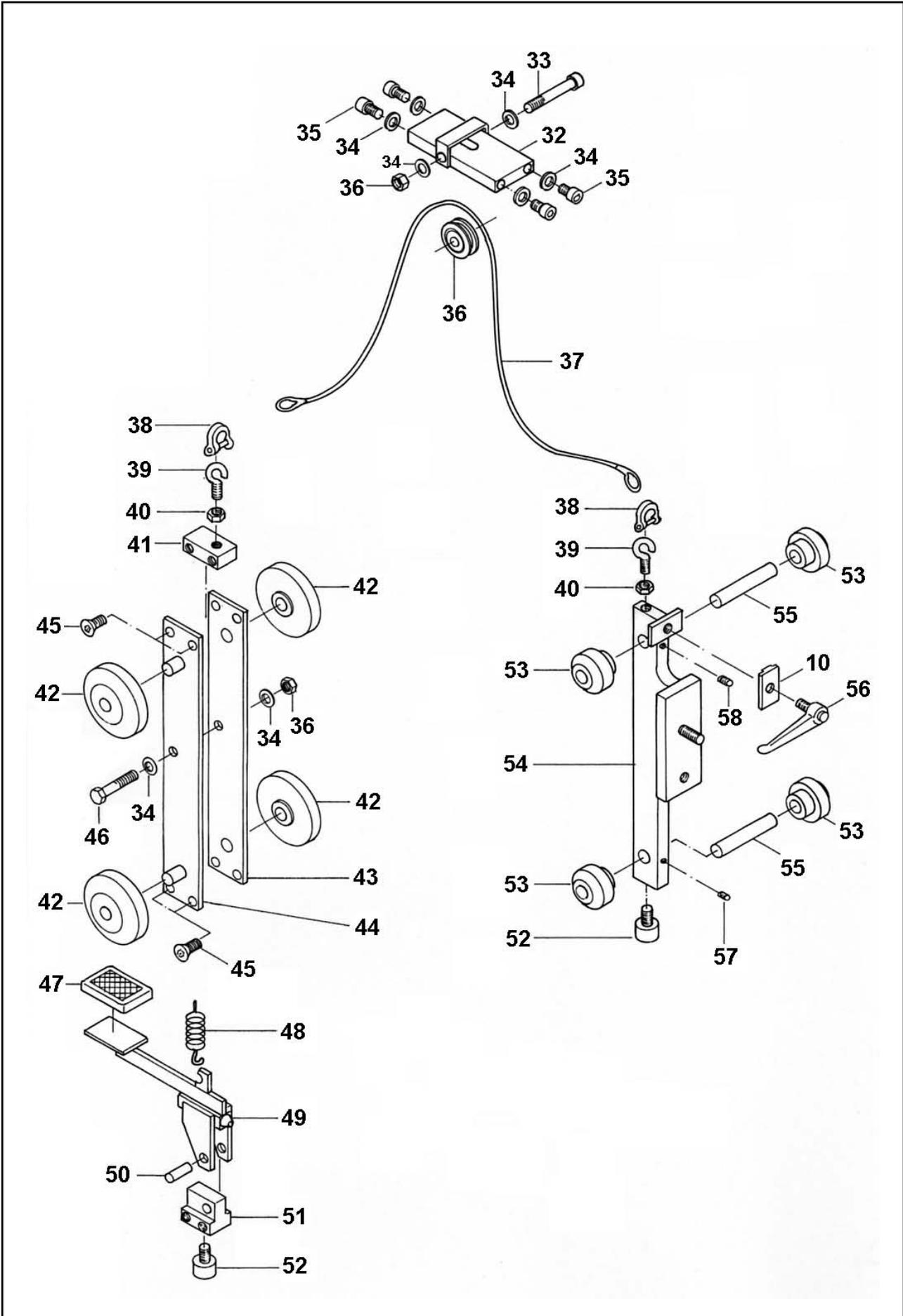
9. Spare parts list

| Pos. | Ref.no. | Description |
|------|---------|--|
| 01 | WH 9745 | Guide column |
| 02 | WH 9746 | PE-plug 150 x 100 x 4 |
| 03 | WH 9747 | Handle GN668 – 20 – 130 – B – BL |
| 04 | WH 1797 | Fillister head screw DIN 912 – M5 x 10 |
| 05 | WH 9748 | Cover profile 1000 mm |
| 06 * | WH 9751 | Brush fastening rail 1000 mm lang |
| 07 | WH 1212 | Washer DIN 125 – Ø5,3 |
| 08 | WH 1031 | Pan-head screw DIN 84 – M5 x 8 |
| 09 | WH 9752 | Back square 40/40/80 |
| 10 | WH 9753 | T-nut 30 x 50 |
| 11 | WH 3128 | Serrated lock washer DIN 6798 – Ø10,5 |
| 12 | WH 1768 | Fillister head screw DIN 912 – M10 x 20 |
| 13 | WH 9741 | Swivelling arm 205 mm |
| 14 | WH 9702 | Vertical frame |
| 15 | WH 9703 | Ball handle Ø50 – M8 x 20 |
| 16 | WH 9708 | Long groove nut Gr. 10 / M8 |
| 17 | WH 9713 | Spacer Ø14 x 1,8 x 12 mm |
| 18 * | WH 9712 | Carrying roller Ø49 x 45 mm |
| 19 | WH 3553 | Counter sunk screw DIN 7991 – M10 x 70 |
| 20 * | WH 9704 | Star knob DIN 6336 – Ø63 – M10 |
| 21 | WH 1478 | Washer DIN 440 – R11 |
| 22 | WH 9711 | Long groove nut Gr. 12 / M10 |
| 23 | WH 9710 | Spacer Ø14 x 1,8 x 27 mm |
| 24 * | WH 9709 | Carrying roller Ø46 x 45 mm |
| 25 | WH 3564 | Counter sunk screw DIN 7991 – M10 x 100 |
| 26 * | WH 9706 | Clamping lever GN 603 – M8 x 40 |
| 27 | WH 1476 | Washer DIN 440 – R 9 |
| 28 | WH 9707 | Spacer Ø50 x 15 mm |
| 29 * | WH 9705 | Clamping lever GN 603 – M10 x 30 |
| 30 | WH 1203 | Washer DIN 125 – Ø10,5 |
| 31 | WH 2677 | Lock nut DIN 985 – M10 |
| 32 | WH 9754 | Holder for cable roller |
| 33 | WH 1800 | Fillister head screw DIN 912 – M 6 x 75 |
| 34 | WH 1479 | Washer DIN 440 – R6,6 |
| 35 | WH 9755 | Fillister head screw DIN 6912 – M 6 x 16 |
| 36 | WH 2676 | Lock nut DIN 985 – M 6 |
| 37 | WH 9756 | Steel cable D3 – 1205 mm long – 2 x grommet thimble pressed on |
| 38 | WH 9757 | Shackle A-shaped – 100 kg |
| 39 | WH 9758 | Eye bolt M6 x 20 |
| 40 | WH 2408 | Hexagon nut DIN 934 – M6 |
| 41 | WH 9759 | Spacer 60 x 30 x 20 mm |

| | | |
|------|---------|--|
| 42 * | WH 9760 | Roller Ø89 x 23 mm |
| 43 | WH 9761 | Guide unit for pedal – right side |
| 44 | WH 9762 | Guide unit for pedal – left side |
| 45 | WH 3566 | Counter sunk screw DIN 7991 – M6 x 16 |
| 46 | WH 2254 | Hexagon head cap screw DIN 933 – M6 x 55 |
| 47 | WH 5863 | Pedal cover |
| 48 | WH 9325 | Pull spring Ø19 x 81 |
| 49 | WH 9763 | Pedal |
| 50 | WH 9764 | Axle Ø12 x 30 mm |
| 51 | WH 9765 | Pedal holder |
| 52 | WH 9766 | Limit stop Ø25 x 16,5 |
| 53 * | WH 9767 | Roller Ø49 x 36,5 mm |
| 54 | WH 9768 | Guide carriage for swivelling mechanism |
| 55 | WH 9769 | Axle Ø16 x 88 mm |
| 56 * | WH 9770 | Clamping lever GN 603 – M10 x 30 – DOR |
| 57 | WH 1890 | Setscrew DIN 916 – M 5 x 10 |

* The parts marked with an asterisk *) are wear parts, for which no liability based on any legal regulations whatsoever can be accepted.





10. Konformitätserklärung

EG-Konformitätserklärung EU – conformity declaration Déclaration de Conformité de U.E.

Name des Herstellers: **Weilhammer Maschinenbau GmbH**
Name of manufacturer:
Nom du fabricant:

Anschrift des Herstellers: Esterndorf 7
Adress of manufacturer: D - 84405 Dorfen
Adresse du fabricant

Dokumentations-Bevollmächtigter: Ingrid Weilhammer
Authorized agent for technical documents: Esterndorf 4
Agent pour les documents technique: 84405 Dorfen

Hiermit erklären wir, dass das nachstehend bezeichnete Gerät in seiner Konzeption und Bauart sowie der von uns in Verkehr gebrachten Ausführung den grundlegenden Sicherheitsanforderungen der unten genannten EG-Richtlinien entspricht. Im Falle von unbefugten Veränderungen, unsachgemässen Reparaturen und / oder unerlaubten Umbauten, die nicht ausdrücklich von uns autorisiert sind, verliert diese Erklärung ihre Gültigkeit.

We herewith declare that the machine described below meets the standard safety regulations of the EU-guidelines mentioned below in its conception and construction, as well as in the design put into circulation by us. In case of unauthorized changes, improper repairs and / or unauthorized modifications, which have not been expressly allowed by us, this declaration will lose its validity.

Par la présente, nous déclarons que la conception et la construction ainsi que le modèle, mis sur le marché par nous, de l'appareil décrit ci-dessous correspondent aux directives fondamentales de sécurité de la U.E. mentionnées ci-dessous. En cas de changements non autorisés, de réparations inadéquates et / ou de modifications prohibées, qui n'ont pas été autorisés expressément par nous, cette déclaration devient caduque.

Gerätebezeichnung: **Montageständer für Fahrräder**
Description of the machine: Mounting stand for bikes
Description de la machine:

Gerätetyp: **Montageständer Bike – mechanisch MBM**
Type of machine: Mechanical Mounting Stand for Bikes
Type de machine:

Zutreffende EG-Richtlinien: **2006/42/EG**
Applicable EU-guidelines:
Directives de la U.E. applicables

Angewandte europäische Normen: **DIN EN ISO 12100; DIN EN 1494 DIN EN ISO 14121-1
DIN EN 61310-3; DIN EN 62079**
Used EU-normes:
Normes de la U.E. appliquées: