



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

Table of contents

	Page
1. General information, correct use	2
2. Safety instructions	3
3. Technical data	3
4. Operating elements	4
5. Handling	5
6. Maintenance	8
7. Waste disposal	8
8. Checking cable winch	9
9. Spare parts list	10
10. Declaration of conformity	11

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

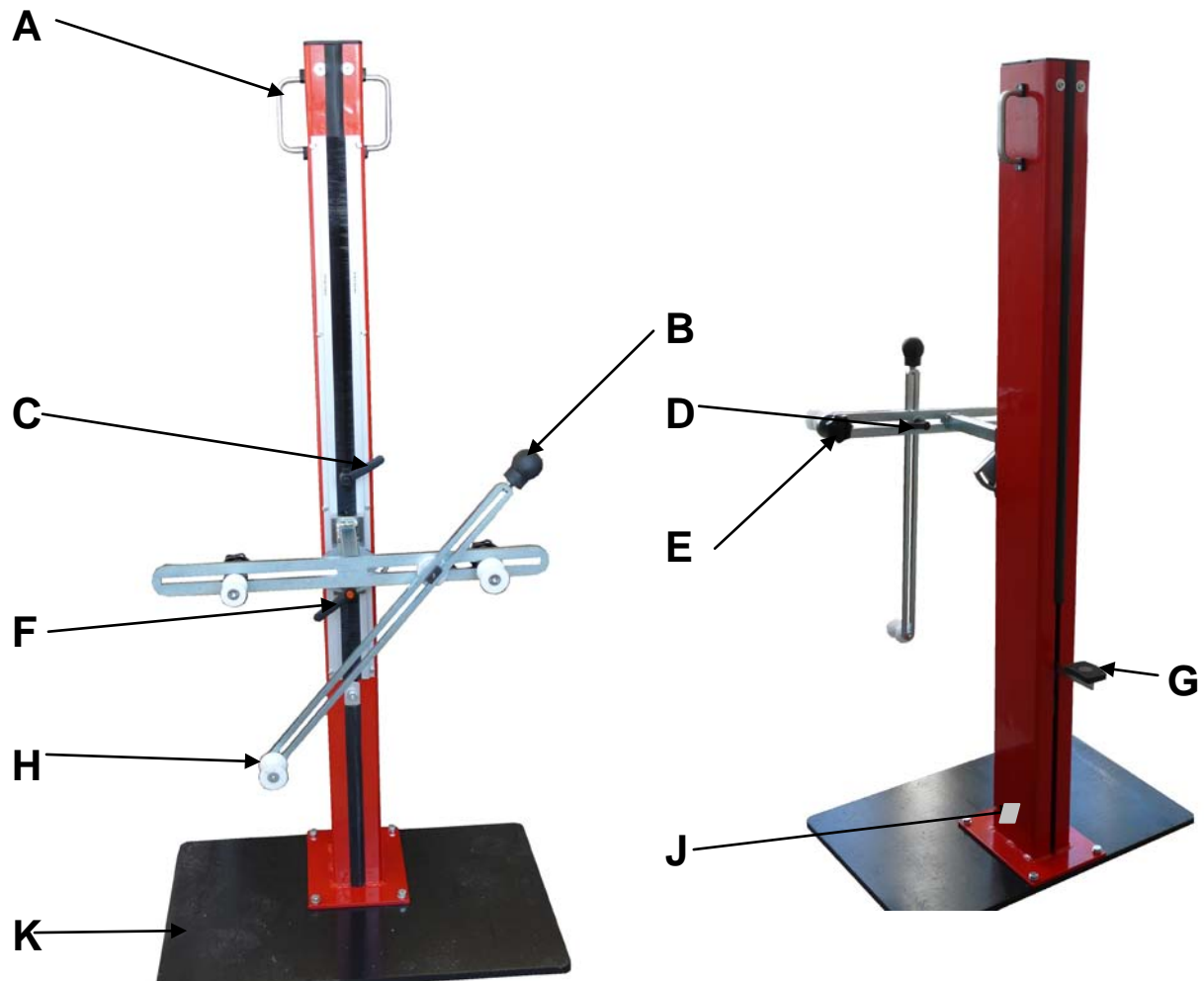


fig. 1

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)

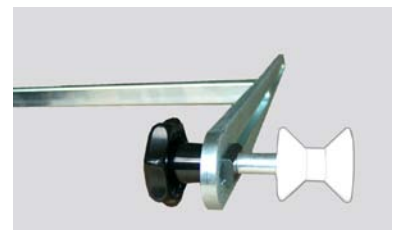


fig.14

- 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

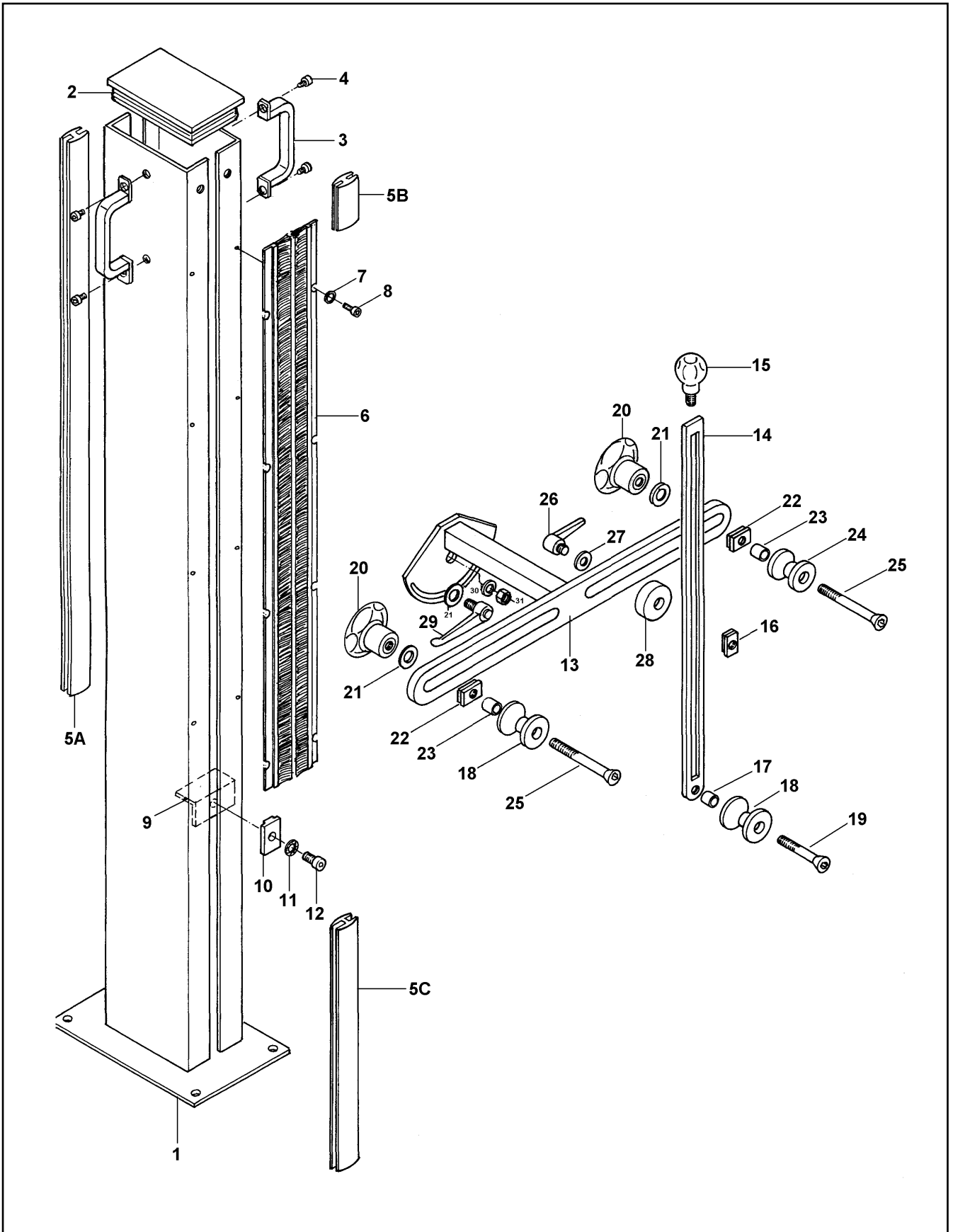
	Date		Date		Date	
	Ok?		Ok?		Ok?	
Steel cable						
Individual wires checked	Yes	No	Yes	No	Yes	No
Steel cable checked for kinks	Yes	No	Yes	No	Yes	No
Pressing checked	Yes	No	Yes	No	Yes	No
Fasteners						
Grommet thimble	Yes	No	Yes	No	Yes	No
Cable clamp	Yes	No	Yes	No	Yes	No
Cabel rollers	Yes	No	Yes	No	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		

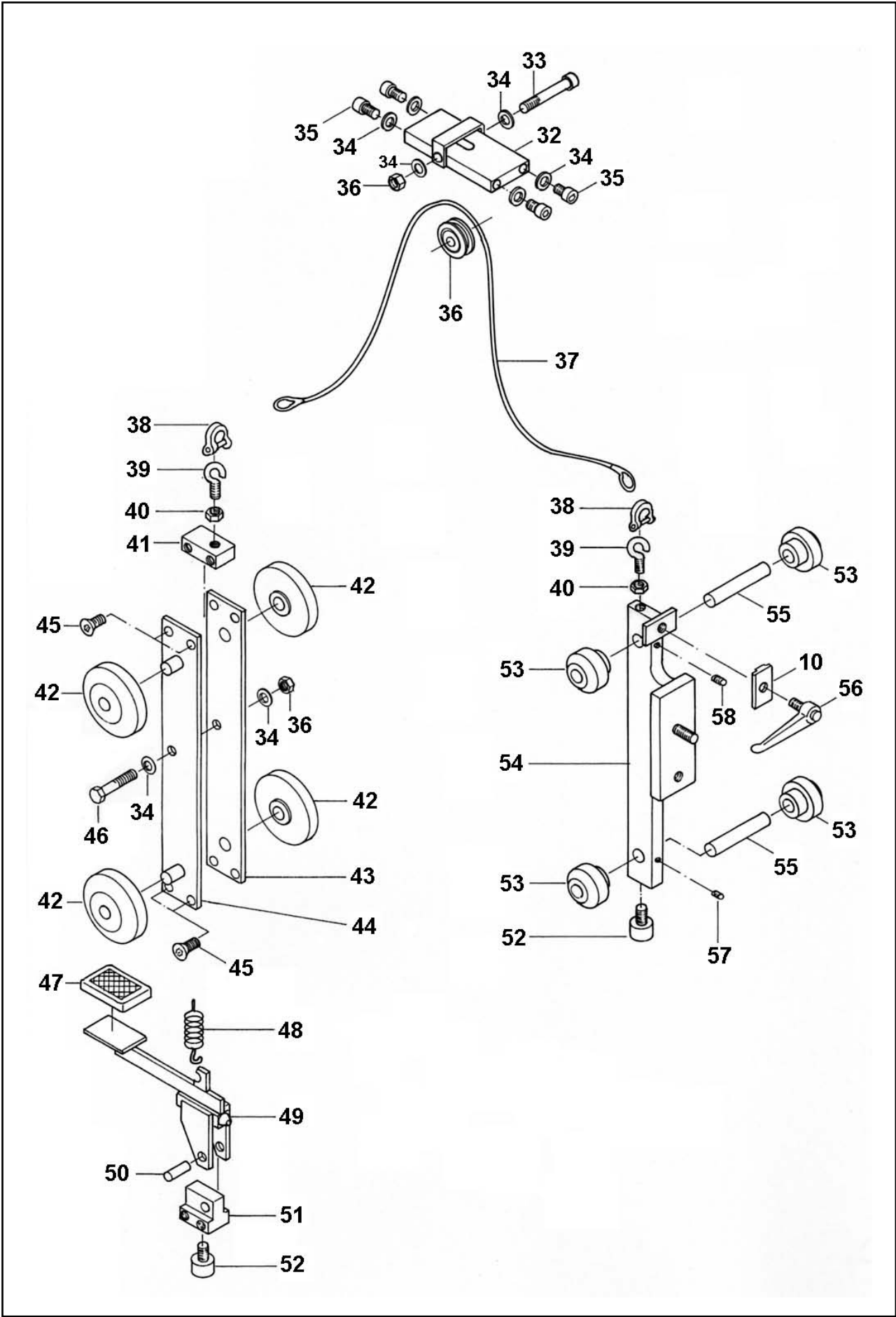
9. Spare parts list

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: