



User Manual

Translation

Height adjustable RUWI working table

AT 300



Keep this manual handy and in good condition for continual reference!

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TYPE : AT 300		CE
NR.:		
V: ---	PH: ---	HZ: ---
KW: --- S1		
Baujahr / year of construction / ANNEE DE CONSTR.: 2016		
ARBEITSTISCH / working table		
EIGENGEWICHT / net weight	75 KG	
TRAGLAST / load capacity	MAX: 300 KG	



Attention! Risk of material damage! The machine must be inspected immediately upon arrival! If the machine has been damaged during transport, or if any parts are missing, a written record of the problems must be submitted to the forwarding agent and a damage report compiled. Also be sure to notify your supplier immediately!



For the safety of yourself and all of your staff, it is necessary to study this manual thoroughly before operating the machine. This manual must be kept in good condition and should be considered as part of the machine! Keep the manual to hand and within the vicinity of the machine so that it is accessible to operators when using the machine, and to anyone that maintains or repairs it!

A product of RUWI

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General

1 General

1.1 Legend

Important technical safety instructions in this manual are marked with symbols. These instructions for work safety must be observed and

followed. Special attention must be paid in all these particular cases, in order to avoid accidents, personal injury or material damage.

**Warning! Risk of injury or death!**

This symbol identifies instructions that if not followed could lead to health problems, injury, permanent impairment or death.

**Attention! Risk of material damage!**

This symbol identifies instructions which if not observed, may lead to material damage, functional failures or even malfunctioning of the machine.

**Note:**

This symbol highlights tips and information which should be observed to ensure efficient and trouble-free operation of the machine.

1.2 Information about the manual

This manual describes how to operate the machine properly and safely. Be sure to follow the safety tips and instructions stated here as well as any local accident prevention regulations and general safety regulations.

Before beginning any work on the machine, ensure that the manual, in particular the chapter entitled "Safety"

and the respective safety guidelines, has been read in its entirety and fully understood. What has been read must be understood. The operating manual is an integral part of the machine. It must therefore be kept in the direct vicinity of the machine and be accessible at all times. The operating manual must always accompany the machine.

1.3 Copyright

This manual should be treated as confidential. It is designated solely for those persons who work on or with the machine. All descriptions, texts, drawings, photos and other depictions are protected by copyright and other commercial laws. Any unauthorised use is prohibited.

This manual, in its entirety or parts thereof, may not be transferred to third parties or copied in any way or form and its contents may not be used or otherwise communicated without the express written consent of the manufacturer. Violation of these terms may result in prosecution and may incur damages, reserving the right to further claims. The right to further claims is reserved. We reserve all rights in exercising commercial protection laws.

General

1.4 Liability and warranty

The contents and instructions in this manual were compiled in consideration of current regulations and state-of-the-art technology as well as based on our know-how and experience acquired over many years. This manual must be read carefully before commencing any work on or with this machine! The manufacturer shall not be liable for damage and/or faults resulting from the disregard of instructions in the manual. The text and images do not necessarily represent the delivery contents.

The images and graphics are not depicted on a 1:1

scale. The product that has been delivered, may have custom-built specifications, add-on options or recent technical modifications and may therefore deviate from the descriptions, instructions and images contained in the manual. Should any questions arise, please contact the manufacturer. We reserve the right to make technical modifications to the product in order to further improve user-friendliness and develop its functionality.

1.5 Warranty notice

The guarantee period is in accordance with national guidelines.

1.6 Spare parts



Attention! Risk of material damage!

Non genuine, counterfeit or faulty spare parts may result in damage, cause malfunction or complete breakdown of the machine.

If unauthorised spare parts are fitted into the machine, all warranty, service, compensation and liability claims against the manufacturer and their contractors, dealers and representatives will be rejected.

Use only genuine spare parts supplied by the manufacturer.



Note: The original spare parts that have been authorised for use are listed in a separate spare parts catalogue, enclosed in the documentation package supplied with the machine.

1.7 Disposal



Attention! Used electrical materials, electronic components, lubricants and other auxiliary substances must be treated as special waste and may only be disposed of by specialised, licensed firms.

Should the machine be disposed of at the end of its operating life, all of the components need to be separated according to material class, to enable recycling or scrapping. The entire structure is made of steel and can therefore be easily separated. Furthermore, this material is easy to dispose of and does not constitute a burden on the environment or the safety of personnel. Please

observe the international regulations and the standards prevailing in the country of destination, in addition to all relevant environmental protection standards.

Safety

2 Safety

At the time of its development and production, the machine was built in accordance with prevailing technological regulations and therefore conforms to industry safety standards.

However, hazards may arise should the machine be operated by untrained personnel, used improperly or employed for purposes other than those it was designed for. The chapter entitled "Safety" offers an overview of all the important safety considerations necessary to optimise safety and ensure the safe and trouble-free operation of

the machine.

To further minimise risks, the other chapters of this manual contain specific safety instructions, all marked with symbols. Additional to the various instructions, there are a number of pictograms, signs and labels affixed to the machine that must also be paid attention to. These must be kept visible and must not be removed.

2.1 Intended use

The machine described in this manual is intended solely for:

Machine equipment trolley, stacking trolley or additional work space

Operational safety is only guaranteed when the machine is used for the intended purposes.

The term "proper use" also refers to correctly observing the operating conditions as well as the specifications and instructions in this manual.

The machine may only be operated with parts and original accessories from the manufacturer.



Attention! Any use, additional to the machine's intended purpose shall be considered improper and is therefore not permitted. All claims regarding damage resulting from improper use that are made against the manufacturer and its authorised representatives will be rejected. The operator is solely liable for any damage that results from improper use of the machine.

2.2 Contents of the operating manual

All those appointed to work on or with the machine must have fully read and understood the manual before commencing any work. This requirement must be met even if the appointed person is familiar with the operation of such a machine or a similar one, or has been trained by the manufacturer.

Knowledge about the contents of this manual is a pre-

quisite for protecting personnel from hazards and avoiding mistakes so that the machine may be operated in a safe and trouble free manner. It is recommended that the operator requests proof from the personnel that the contents of the manual have been read and understood.

2.3 Making changes and modifications to the machine

In order to minimise risks and to ensure optimal performance, it is strictly prohibited to alter, retrofit or modify the machine in any way without the express consent of the manufacturer.

All the pictograms, signs and labels affixed to the

machine must be kept visible, readable and may not be removed. Pictograms, signs and labels that have become damaged or unreadable must be replaced promptly.

Safety

2.4 Responsibilities of the operator

This manual must be kept in the immediate vicinity of the machine and be accessible at all times to all persons working on or with the machine. The machine may only be operated if it is in proper working order and in safe condition. The general condition of the machine must be checked and the machine must be inspected for visible defects every time before it is switched on. All instructions in this manual must be strictly followed without exception. Besides the safety advice and instructions stated in this manual, it is necessary to consider and observe local accident prevention regulations, general safety regula-

tions as well as current environmental stipulations that apply to the operational range of the machine. The operator and designated personnel are responsible for the trouble-free operation of the machine as well as for clearly establishing responsibilities for installing, servicing, maintaining and cleaning the machine. Machines, tools and accessories must be kept out of the reach of children.

2.5 Personnel requirements

Only authorised and trained personnel may work on and with the machine. Personnel must be briefed about all functions and potential dangers of the machine. "Qualified personnel" is a term that refers to those who – due to their professional training, know-how, experience, and knowledge of relevant regulations – are in a position to assess delegated tasks and recognise potential risks. If the personnel lack the necessary knowledge for working on or with the machine, they must be trained. Responsibility for working with the machine (installation, service, maintenance, overhaul) must be clearly defined and strictly observed. Only those people who can be expected to carry out their work reliably may be given permission to work on or with the machine. Personnel must refrain from working in ways that could harm

others, the environment or the machine itself. It is absolutely forbidden for anyone who is under the influence of drugs, alcohol or reaction-impairing medication to work on or with the machine. When appointing personnel to work on the machine, it is necessary to observe all local regulations regarding age and professional status. The user is also responsible for ensuring that unauthorised persons remain at a safe distance from the machine. Personnel are obliged to immediately report any irregularities with the machine that might compromise safety to the operator.

2.6 Work safety

Following the safety advice and instructions given in this manual can prevent bodily injury and material damage while working on and with the machine. Failure to observe these instructions can lead to bodily injury and damage to or destruction of the machine. Disregard of the safety advice and instructions given in this manual as well as the accident prevention regulations and general

safety regulations applicable to the operative range of the machine shall release the manufacturer and their authorised representatives from any liability and from any compensation claims.

Safety

2.7 Personal protective equipment

When working on or with the machine, the following must be strictly observed:



People with long hair who are not wearing a hairnet are not permitted to work on or with the machine!

When working on or with the machine, the following must always be worn by personnel:

**Protective clothes**

Sturdy, close-fitting clothing (tear-resistant, no wide sleeves, no rings or other jewellery etc.)

**Protective footwear**

To protect the feet from heavy falling objects and prevent sliding on slippery floors

2.8 Machine hazards

The machine has undergone a hazard analysis. The design and construction of the machine is based on the results of this analysis and correspond to state-of-the-art technology.

The machine is considered operationally safe when used properly.
Nevertheless, there are some remaining risks that must be considered.

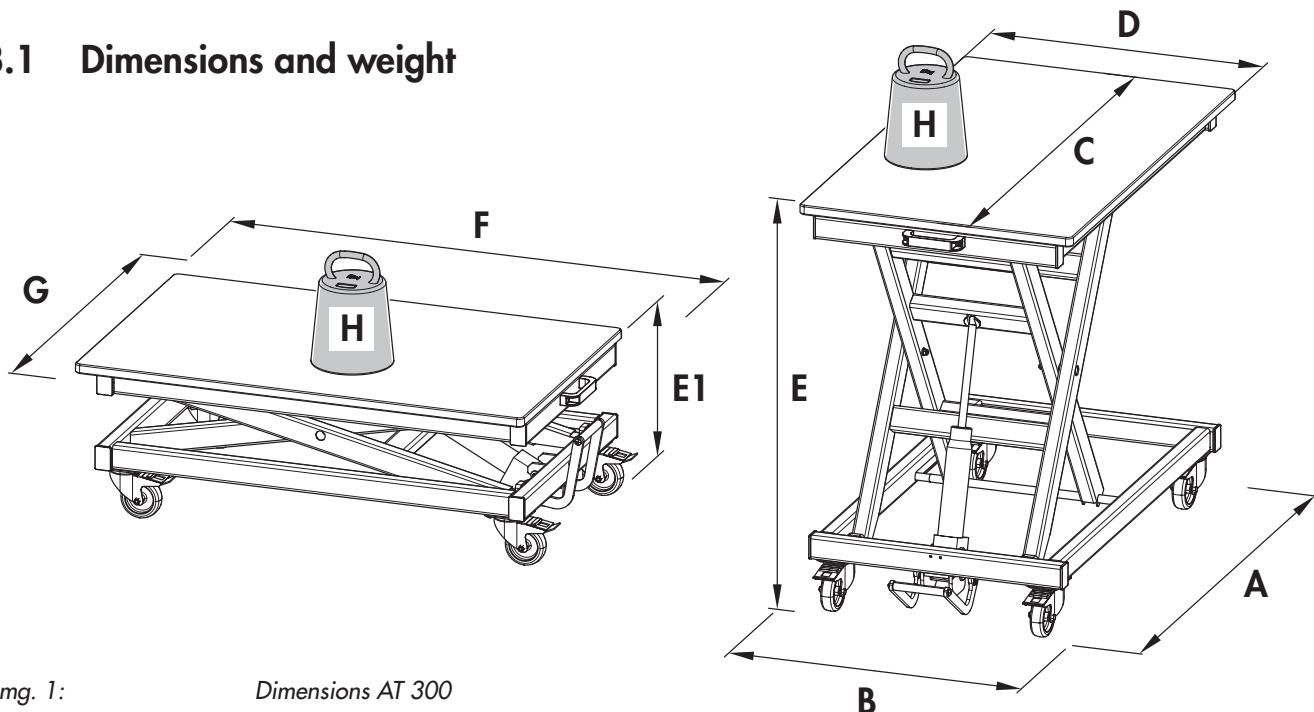
**Warning! Other risks / Risk of injury**

- **Risk of injury through being crushed, caught or pushed.**
- **Risk of injury due to insufficient preparation!**
- **Do not work if the floors are still wet or are slippery.**
- **It is strictly forbidden to climb onto the machine - danger of falling.**
- **Keep in mind the machine's centre of gravity when transporting it (risk of tipping).**

Technical specifications

3 Technical specifications

3.1 Dimensions and weight



Img. 1:

Dimensions AT 300

Machine	AT 300
Base dimensions AxB (max.)	1290 x 780 mm
Worktop surface C x D	1200 x 800 mm
Total height E (upper position)	approx. 1050 mm
Total height E1 (lower position)	approx. 450 mm
Total length F	max. 1270 mm
Total width G	739 mm
Max. load H (max.)	300 kg
Net weight *)	approx. 60 kg
Operating/room temperature	+10° to +40°C

Machine including packaging	AT 300
Length x width x height	1200 x 800 x 400 mm
Min. transport width	640 mm
Weight (approx.)**)	120 kg
Warehouse temperature	-10° to +50°C

*) without

worktop

**) with worktop surface

Transport, packaging and storage

4 Transport, packaging and storage

4.1 Safety instructions

**Attention! Risk of material damage!**

The machine can be damaged or destroyed if it is subjected to improper handling during transport.

**Warning! Risk of injury!**

There is a risk of injury as a result of falling parts while transporting, loading or unloading the machine.

For this reason the following safety instructions must be observed:

- Never lift loads over a person.
- Always move the machine with the utmost of care and caution.
- Only use suitable lifting accessories and hoisting devices that have a sufficient load-carrying capacity.
- The machine should never be lifted by its protruding parts (e.g. working table).
- Keep in mind the machine's centre of gravity when transporting it (risk of tipping).
- Take measures to prevent the machine from slipping sideways.
- Ropes, belts or other hoisting devices must be equipped with safety hooks.
- Do not use torn or worn ropes.
- Do not use knotted ropes or belts.
- Ensure that ropes and belts do not lie against sharp edges.
- Transport the machine as carefully as possible. This prevents damage from the transport.
- Avoid mechanical vibration. When transporting the machine overseas, ensure that the packaging is airtight and that a desiccant is added to protect the metal parts against corrosion.

4.2 Transport inspection

Upon arrival, inspect the shipment to ensure that it is complete and has not suffered any damage.

If any transport damage is visible, do not accept the delivery or only accept it with reservation. Record the scope of the damage on the transport documents/delivery note. Initiate the complaint process.

For all defects that are not discovered upon delivery, be sure to report them as soon as they are recognised as damage claims must be filed within a certain period, as granted by law.

4.3 Packaging

If no agreement has been made with the supplier to take back the packaging materials, help to protect the environment by reusing the materials or separating them according to type and size for recycling.

**Attention! Dispose of the packaging materials in an environmentally friendly way and always in accordance with local waste disposal regulations. If applicable, contract a recycling company to dispose of the packaging materials.****Note: Help protect the environment!**

Packaging materials are valuable raw materials and in many cases they can be used again, reprocessed or recycled.

Transport, packaging and storage

4.5 Storage

Keep items sealed in their packaging until they are assembled/installed and be sure to observe the stacking and storage symbols on the outside of the packaging.

Store packed items only under the following conditions

- Do not store outdoors.
- Store in a dry and dust-free environment.
- Do not expose to aggressive substances.
- Protect from direct sunlight.
- Avoid mechanical vibration.
- Storage temperature: -10 bis +50 C.
- Maximum humidity: 60 %.
- Avoid extreme temperature fluctuations (condensation build-up).
- Apply a coat of oil to all exposed machine parts (corrosion protection).

- When storing for longer than 3 months, apply a coat of oil to all exposed machine parts (corrosion protection). Regularly check the general condition of all parts and the packaging. If necessary, refresh or re-apply the coat of anti-corrosive agent.
- If the machine is to be stored in a damp environment, it must be sealed in air-tight packaging and protected against corrosion (desiccant).

4.4 Transport



Attention! Risk of material damage!

Transport the machine according to the enclosed transport and assembly instructions!

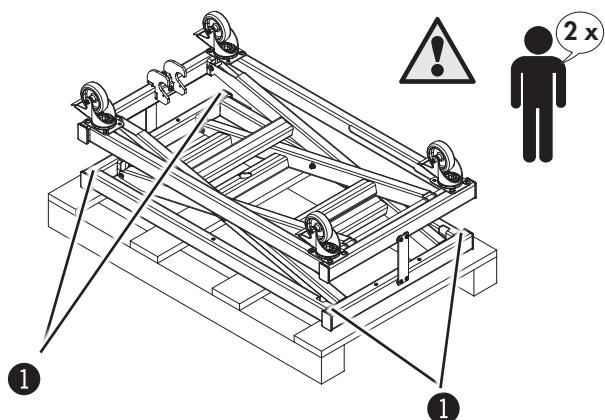


Note:

The transport width measures under 1000 mm. This makes it possible to transport the machine through doorways.

To facilitate assembly, ensure the presence of a minimum of one additional people.

For mounting, refer to the separate assembly instructions (attached to the machine or the worktop surface).



The machine is partly assembled when delivered on the pallet

The machine is shipped mounted on a pallet. (4 x securing bolt)

The machine can be transported/unloaded with a fork carriage or a forklift truck or with a crane and hoisting loop.

1 Securing bolt

Img. 2: Transport locking device

Setup and installation

5 Setup and installation

5.1 Safety instructions

! Warning! Risk of injury! Improper assembly and installation can lead to serious physical injury or equipment damage. For this reason, this work may only be carried out by authorised, trained personnel who are familiar with how to operate the machine and in strict observance of all safety instructions.

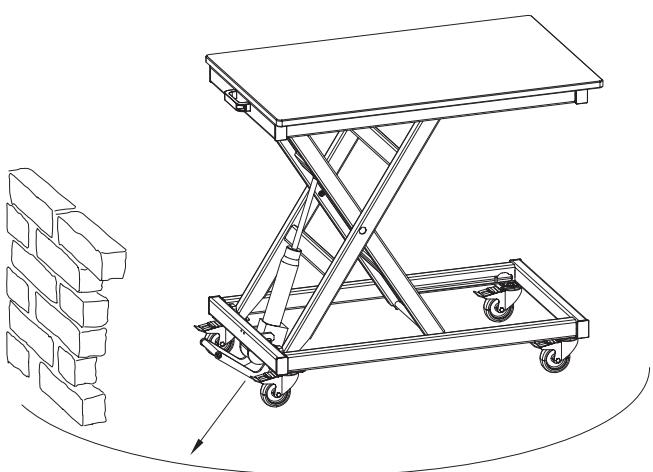
- Before assembling and installing the machine, check to make sure it is complete and in good condition.
- Keep the work area orderly and clean. Components and tools that are not put in their correct place or put away may be the cause of accidents!
- Ensure that there is sufficient space to work around the machine.

! Warning! Risk of injury! An incomplete, faulty or damaged machine can lead to serious physical injury and/or equipment damage. Only assemble and install the machine if the machine and all of the parts are complete and intact.

5.2 Floor space requirement



Note:
For mounting, refer to the separate assembly instructions (attached to the machine or the worktop surface).



Installation location requirements:

- Operation/room temperature: +10° to +40° C
- Ensure that the work surface is sufficiently stable and has the proper load-bearing capacity
- Provide sufficient light at the workstation
- Ensure there is sufficient clearance for or from neighbouring workstations

To operate and maintain the machine, leave a min. of 500 mm space all around the machine.

Img. 3: Space requirement/Measurements

Operation

6 Operation

! Attention! Risk of material damage! Danger of tipping
Only process work pieces that can be securely positioned.
Max. load capacity 300 kg

6.1 Authorised and prohibited work techniques

Authorised working techniques

- Usable as: Machine equipment trolley, stacking trolley or additional work space

The following working techniques are prohibited on this machine:

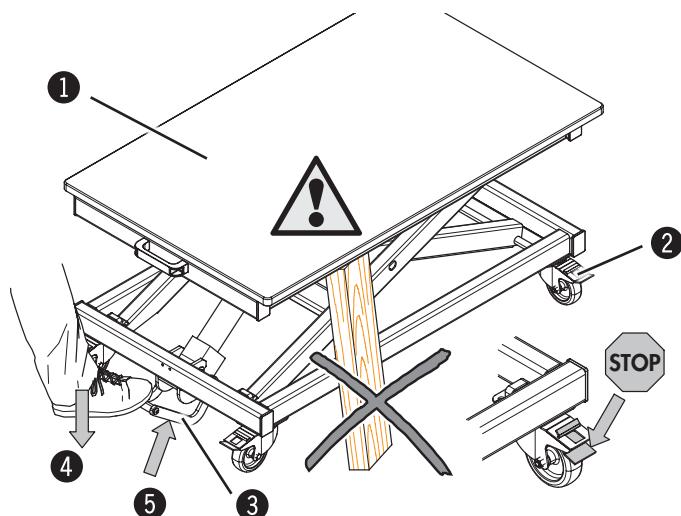
- It is strictly forbidden to climb onto the machine - danger of falling.

6.2 Adjust the working height

!

Attention! Risk of material damage!

When setting the working height (particularly when lowering), be sure that no workpieces or other objects have been placed beneath the table (wedging threat).



The working height is adjustable continuously between 400 and 1020 mm.

1. Wheel lock: press in and lock

2. Adjust working height:

Operate the lever on the machine frame. (Push to the bottom)

4 place to the top

3. Lower the working table:

Operate the lever on the machine frame.

- Push slowly to the top (to the stop)
- press and hold

5 Lower the working table

Img. 4: Adjust the working height

- 1** Work table
- 2** 4 swivel rollers with locks
- 3** Foot pedal



Note: Avoid jerky movements.

Operate the lever on the machine frame -> to the stop!

Maintenance**7 Maintenance / Cleaning the machine****i Note:**

Generally there is no lubrication necessary, because the ball bearings are free of maintenance.
The guiding systems are completely maintenance free and do not require the addition of lubricants.



Img. 5: Remove dust and shavings

We recommend that dust and chips are cleaned off the machine when it is necessary, especially from the table- and the guide surfaces.

Using the "glue Solvent & press cleaner", it is easy to remove all glue residues from tools and machine parts

Never use caustic or abrasive detergents.

Cleaning and care products are available as accessories

**Attention! Risk of material damage!**

The lifting cylinder is free of maintenance and must not be taken apart by the user.

Annex

8 Appendix - Declaration of Conformity



EC certificate of conformity
in accordance with machine guidelines 2006/42/EG

We hereby declare that the machine indicated below, which corresponds to the design and construction of the model we placed on the market, conforms with the health and safety requirements as stated by the EC.

Manufacturer:
Felder KG

RUWI GmbH
Alte Kirchstr.1
78737 Fluorn-Winzeln

Product designation:

Height adjustable RUWI working table

Make:

RUWI

Model designation:

AT 300

The following EC guidelines were applied:

**The following EC guidelines were applied:
2006/42/EG**

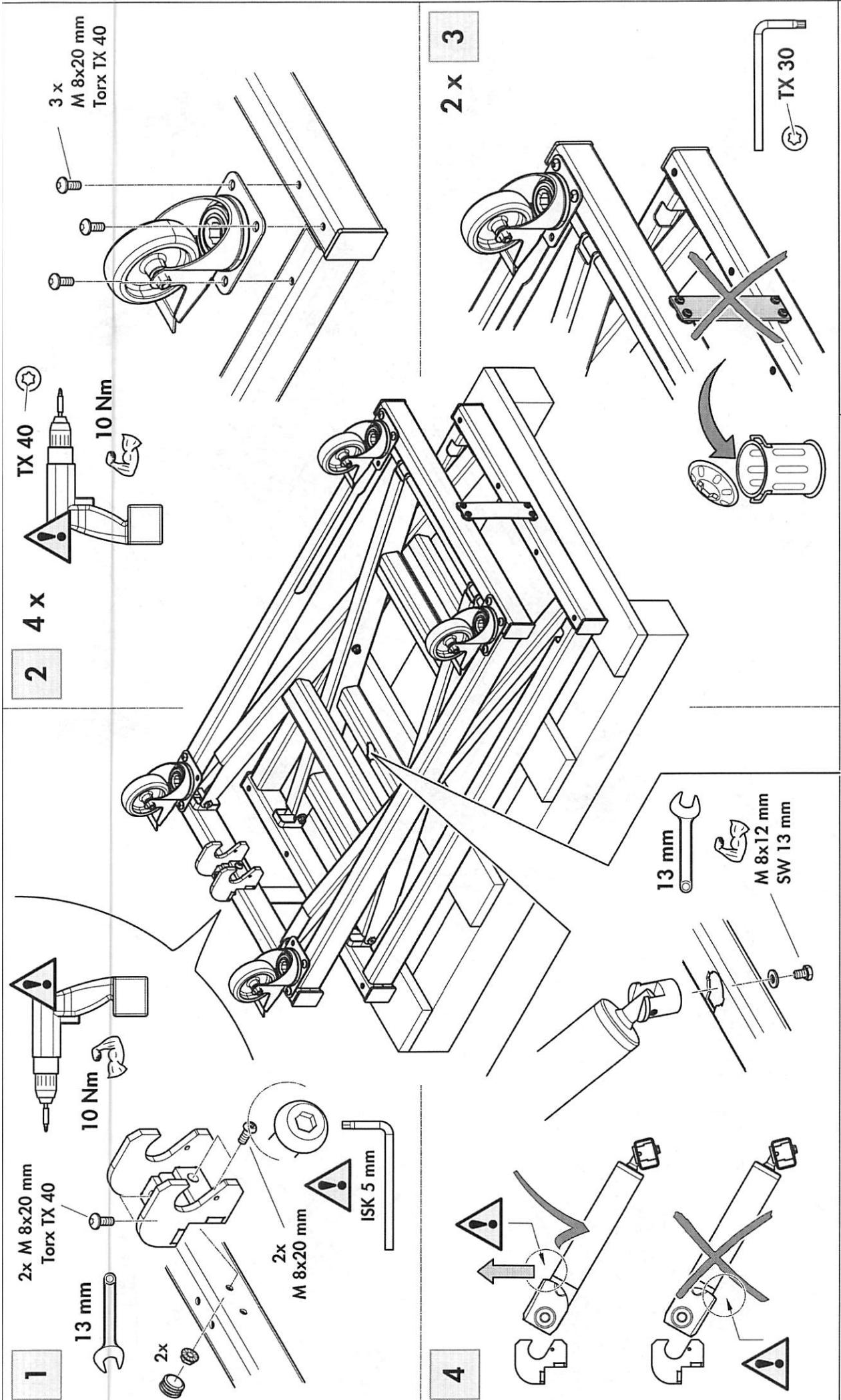
This EC Declaration of Conformity is valid only if the CE label has been affixed to the machine.

Modifying or altering the machine without the express written agreement of the manufacturer shall render the warranty null and void.

The signatory of this statement is the appointed agent for
the compilation of the technical information

A handwritten signature in black ink that reads "Reiner Ruggaber".

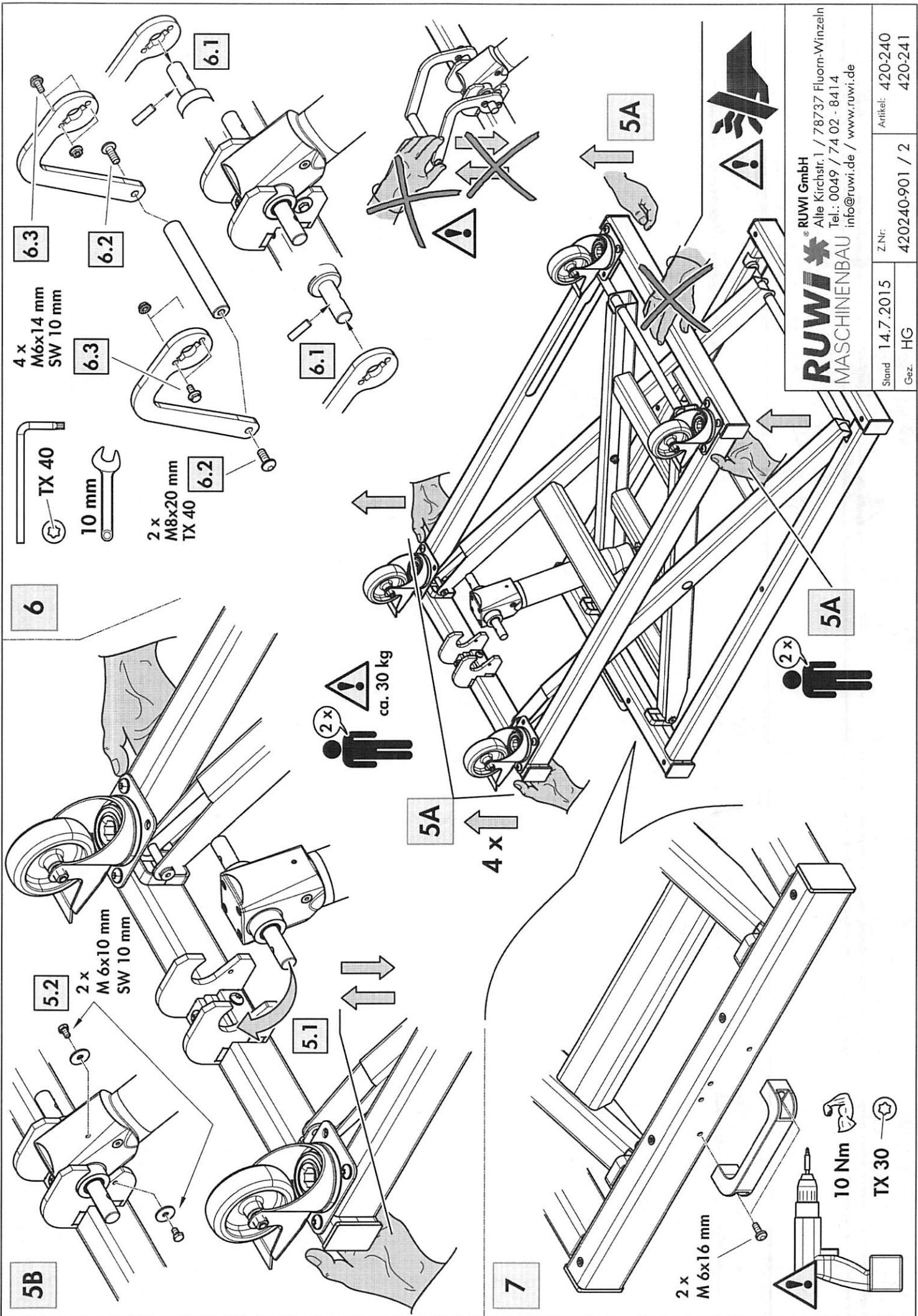
Reiner Ruggaber, Geschäftsführer RUWI GmbH
• Alte Kirchstr.1 78737 Fluorn-Winzeln



Aufbauanleitung - Montagewagen AT 300 (Traglast max 300 kg)
 Assembly instruction - Mounting table AT 300 (Load capacity max. 300 kg)
 Instructions de montage - Table pour montage AT 300 (Capacité de levage max. 300 kg)
 Manuale di installazione - Carrello di montaggio AT 300 (Capacità portante max. 300 kg)

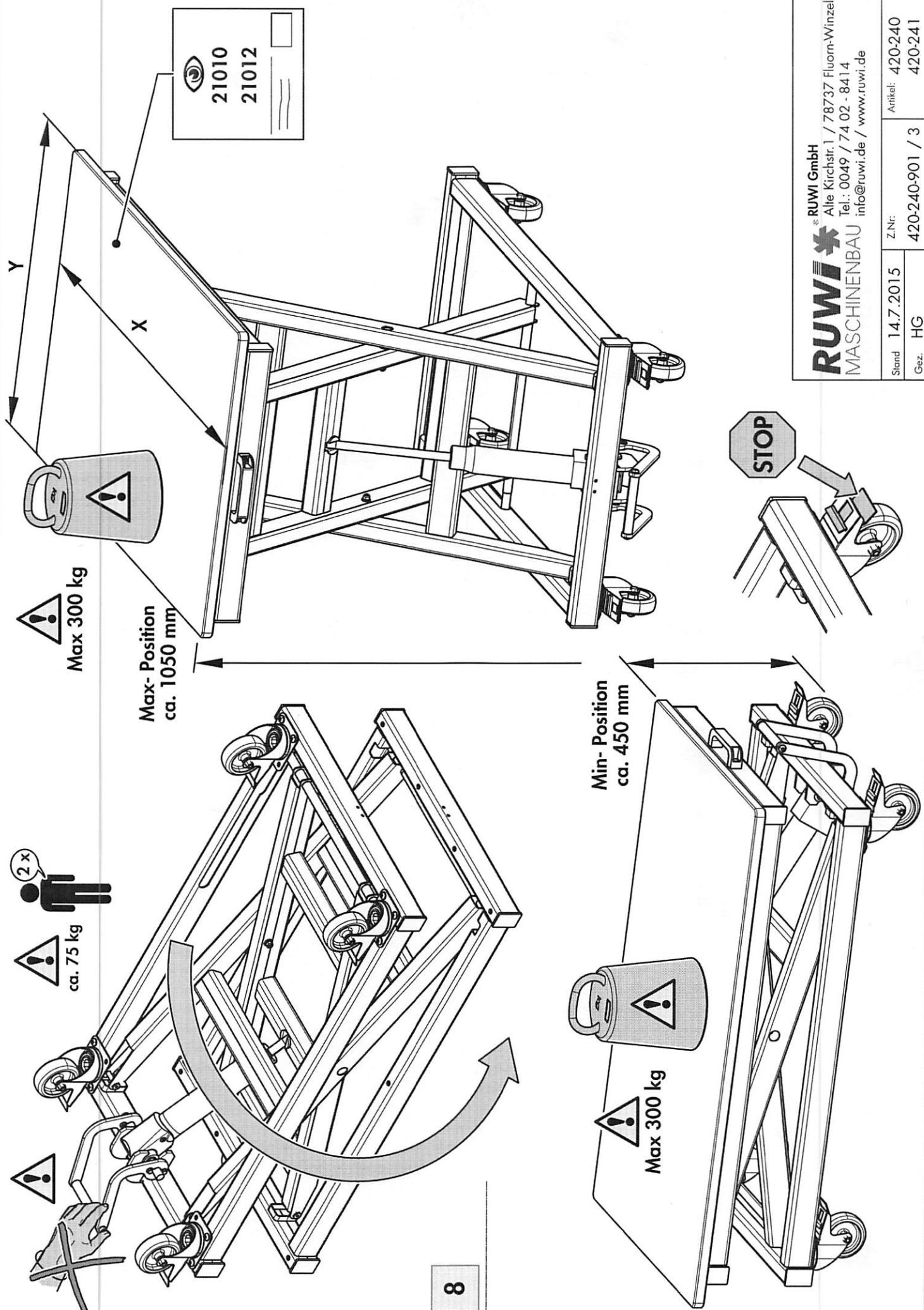
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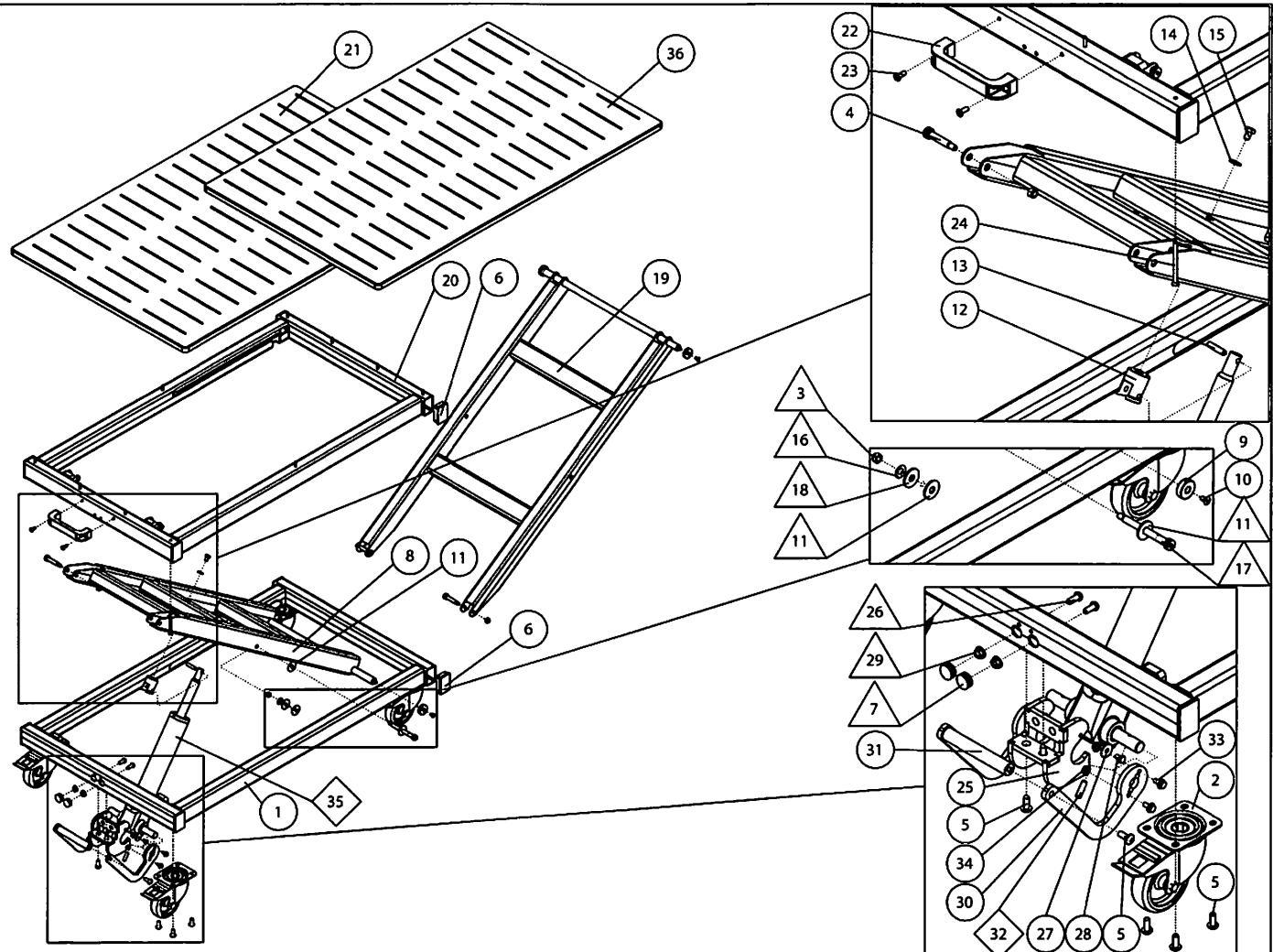
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Stand 14.7.2015	Z.Nr. 420-240-901 / 3	Artikel: 420-240
Gez. HG		420-241



Pos.	Teilenummer	Teilebezeichnung	Pos.	Teilenummer	Teilebezeichnung
1	420240-035+1	Grundrahmen 2015 schweißen	36	21012	Tischoberteil Holz- und Kunststoff 1200x800x50
2	213SJ	Lenkrolle D100x32			
3	440B	Sicherheitsmutter M8			
4	419CJ	Passschulterschraube M8 x 40			
5	400HNF	Gewindefurch. Linsenschr. M8x20 mit Torx			
6	213D	Rechteckstopfen-V60x40			
7	213CA	Rundlamellenstopfen D24-W0,8-2,5			
8	420240-035+1	Kreuzstrebe Hubzylinder schweißen 2015			
9	432GD	Rillenkugellager 6200-2RS1 6200-2RS1 10 x 30 x 9			
10	400BD	Senkschraube mit ISK M6x12			
11	400AX	Scheibe M10 PA66			
12	420-240-023	Zylinderaufnahme			
13	400DE	Schaftschraube mit Schlitz u. Kegelkuppe M8x35			
14	404D	Scheibe M8			
15	418DN	Skt. Schraube M8x12			
16	400R	Tellerfeder 20x10,2x1,1			
17	419CH	Paßschulterschraube M8 x 90			
18	400CZB	Scheibe M10			
19	420240-035+1	Kreuzstrebe schweißen 2015			
20	420240-035+1	Tischrahmen 2015 schweißen			
21	21010	Tischoberteil Metall 1200x800x50			
22	208HDA	Hangriff mit Durchgangsbohrung für M8			
23	400HJ	SPIRALFORM SCHRAUBE SF M6*16-K mit Torx			
24	400CVD	Spanplattenschraube-Senkkopf mit Torx T30 D5x80			
25	420240-002+1	Zylinderaufnahme			
26	422DC	Linsenschraube mit ISK M8x20			
27	400VB	Scheibe M6 verz.			
28	418CF	Skt. Schraube M6x10			
29	400GD	Sechskantrippennmutter M8			
30	420-240-202	Betätigungshebel			
31	420-240-020	Pedalstange			
32	430AAE	Zylinderstift 8 m6x28			
33	400GJ	Skt. Rippenschraube M6x14 schwarz			
34	400HV	Sechskantrippennmutter M6			
35	238BZA	DrehwellenKompakthydraulik			



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