

RICKSHAW DOLLY®



Made in Germany
Manufactured by

Hans
ellner
Works

UG (Haftungsbeschränkt)

RICKSHAW DOLLY®

Manufactured by



Hans Hellner
Admiralitätstrasse 74
20459 Hamburg
Germany

email: hans@rickshawdolly.com

www.rickshawdolly.com

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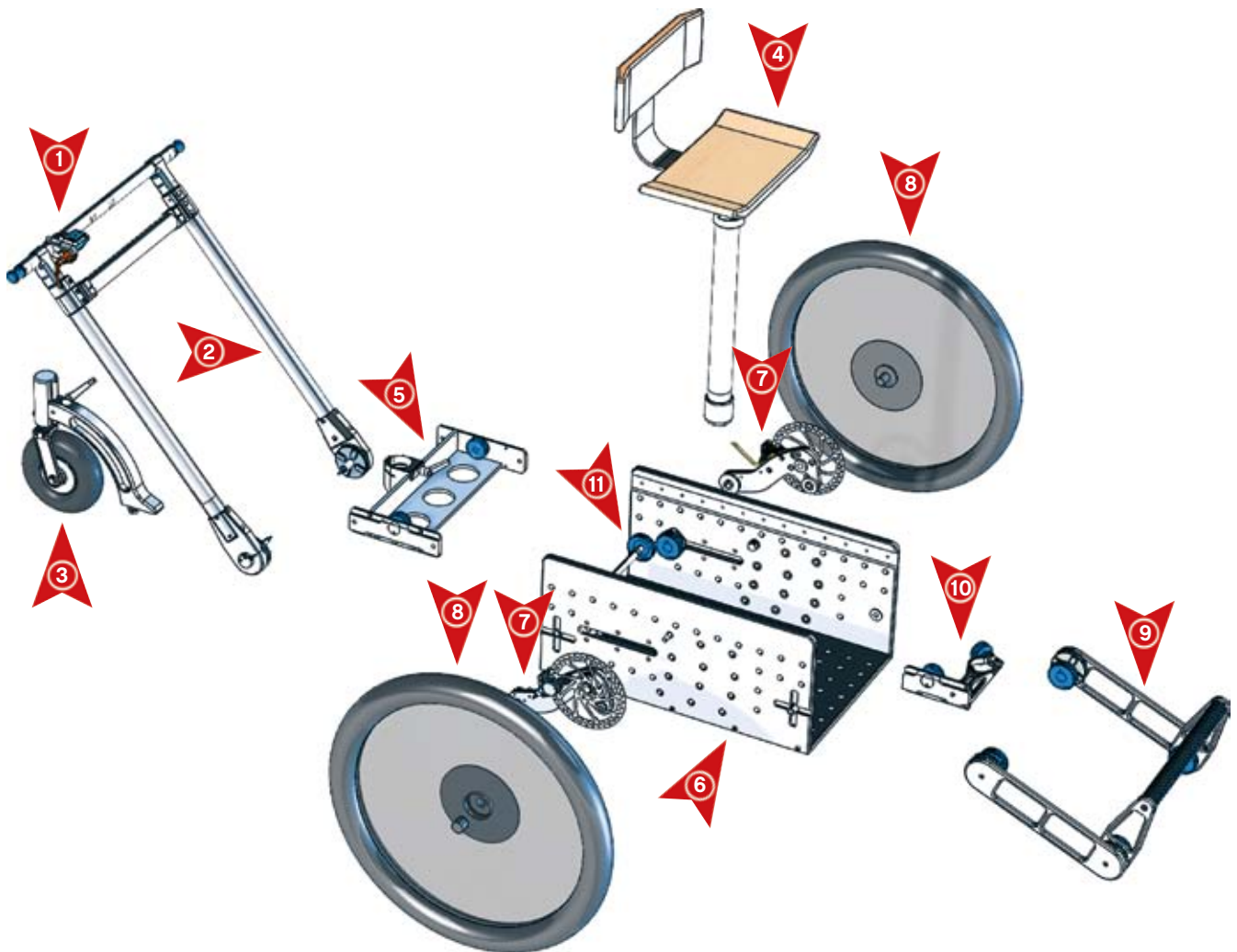
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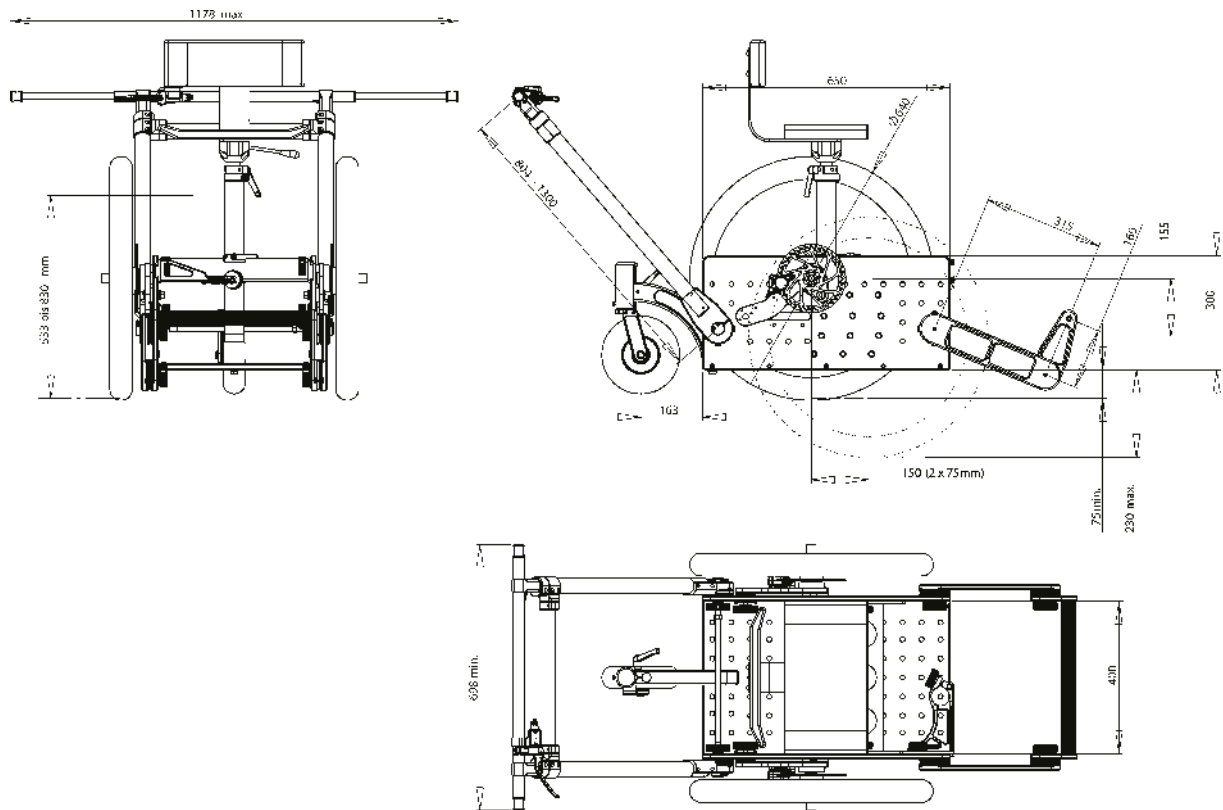
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Exploded-view drawing



1. Brake lever
2. Push/pull bar
3. Third wheel
4. Seat
5. Crossbar
6. Body
7. Wheel arm
8. Main wheel
9. Footrest
10. Pipe mount
11. Push/pull bar lock

Technical Data



Weight	54 kg / 119 lbs
Maximum load	150 kg / 330 lbs
Seat height	533 - 830 mm / 21.0 - 32.7"
Push/pull bar: width	698 - 1178 mm / 27.5 - 46.4"
Length of push/pull	804 - 1300 mm / 31.7 - 51.2"
Foot rest extension	up to 475 mm / up to 18.7"
Air pressure: Main wheels	29.0 - 65.0 psi min/max 2.0 - 4.5 bar min/max
Air pressure: Big Feet	11.6 psi max 0.8 bar max
Air pressure: Single 3rd wheel	36.0 psi max 2.5 bar max
Main wheel	24 x 2.50 (61-507)
Big Feet	21 x 12.00-8 (550x250)
Single 3rd wheel	2.50-3 (210x65)
Oil-hydraulic disc brakes	
Manufactured to DIN/ISO standards	

Safety Guidelines

Make sure you read and understand the operating instructions and the safety instructions before you use the **RICKSHAW DOLLY®**.

Always follow the manufacturer's safety instructions. Do not exceed the maximum values provided by the manufacturer under any circumstances.

The manufacturer is not liable for damage or injury caused by failing to follow the operating instructions and the safety instructions or by abuse or negligent operation.

Functions

Before using the **RICKSHAW DOLLY®** make sure that all components (push/pull bar, seat, third wheel, wheel bracket, main wheels, etc.) are securely tightened and locked.

The main wheels should always be inflated to the manufacturer's recommended pressure of at least 2.0 bar / 29 psi. Otherwise, undesired tilting, instability and reduced ease of use can occur during operation.

Configuring the **RICKSHAW DOLLY®**:

When you configure the **RICKSHAW DOLLY®**, always be sure to distribute weight evenly and secure the unit to prevent tipping.

Operating the **RICKSHAW DOLLY®**:

Make sure that there is sufficient clearance beneath the floor plate and that the body will not bump, contact or get hung up on any obstacles.

Make sure that no wires, sticks or other parts get caught in the spikes of the main wheel or on the brake lines. Always secure the load on the **RICKSHAW DOLLY®** with a strap or clamp to prevent slipping.

Before moving off, make sure the camera-person/operator is sitting or standing in a safe position.

Ensure that nothing (such as clothes, shoelaces, feet) can get caught or jammed.

To rule out any risk to people and equipment, you should always adapt your speed to the terrain and the surrounding conditions.

The technical staff is ultimately responsible for adjusting the **RICKSHAW DOLLY®** to meet the demands of the terrain and the specifications of the cameraperson/operator. It is their job to decide how to best ensure the highest level of safety when operating the dolly.

Important



Make sure the vertical center of gravity is directly above the wheel axles.

The **RICKSHAW DOLLY®** maximum load is 150 kg, made up of: 1 person, camera and equipment.

Do not exceed the maximum safe working load of 200 kg!

Transport



When transporting the **RICKSHAW DOLLY®** in the flight case, fully lower the seat and the push/pull bar.

Fold the footrest into the body, turn the seat backwards and slide it to the footrest.

Pivot the push/pull bar up to 100°.

The main wheels have to be in the standard position (middle horizontal, highest vertical row).

Move the **RICKSHAW DOLLY®** directly in front of the flight case, lift it on the pedestal between the guide bars and slide it in fully.

Loosen the third wheel-arm screw joint under the floor plate using an SW19 box wrench.



Take off the third wheel and put it in the drawer.

Replace the two knurled screws and tighten the screws by hand to secure the **RICKSHAW DOLLY®** inside the flight case.

Important



Close the brake lever and secure it with the strap during transport.

Assembly & Operation

The following operating instructions describe how to use the **RICKSHAW DOLLY®** and how to attach equipment to the **RICKSHAW DOLLY®**.

1. Third Wheel

The 3rd wheel is made up of: wheel arm with dovetail, ball-bearing-mounted wheel on a pivot axis, centering pin and an M12x30 mounting bolt.

If you use the **RICKSHAW DOLLY®** as a two-wheeler (with the BIG FEET) we recommend raising the 3rd wheel in the dovetail and only using it as an anti-tipping device when breaking or when the cameraperson / operator is climbing on or off.



1. Centering pin
2. M12x30 mounting bolt
3. Dovetail clamping lever
4. Knurled screw to secure the swivel catch

To move the 3rd wheel, jack up the **RICKSHAW DOLLY®** and loosen the wheel-arm screw joint under the floor plate using a SW19 box wrench. You can then shift the third wheel as a single unit.

The 3.Wheel ist fixable for straight forward and backward moves.



Loosen the small knurled screw (4) by hand, pivot the 3rd wheel in position and shift down the pin to engage the catch and tighten the screw by hand.



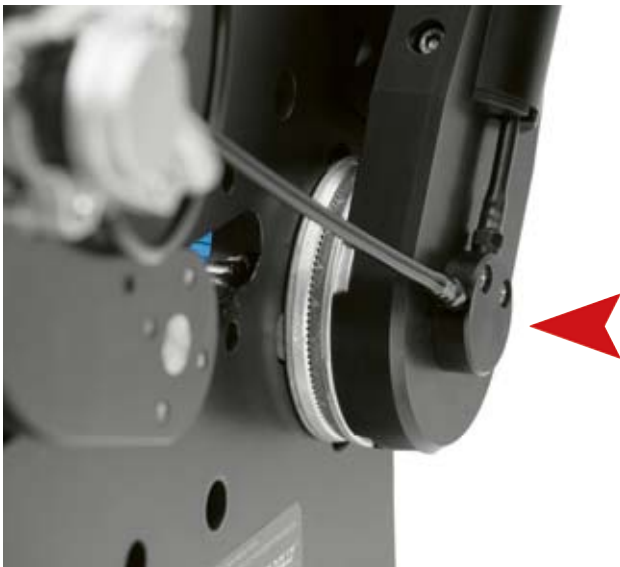
2. Push/pull bar

The push/pull bar is attached to the body with two locking discs for adjusting the angle.

Important



DO NOT use the handle to compensate for a poorly balanced body.



The brake lever sits on the push/pull bar. The hydraulic lines for the brakes are fitted inside the telescopic push/pull bar.

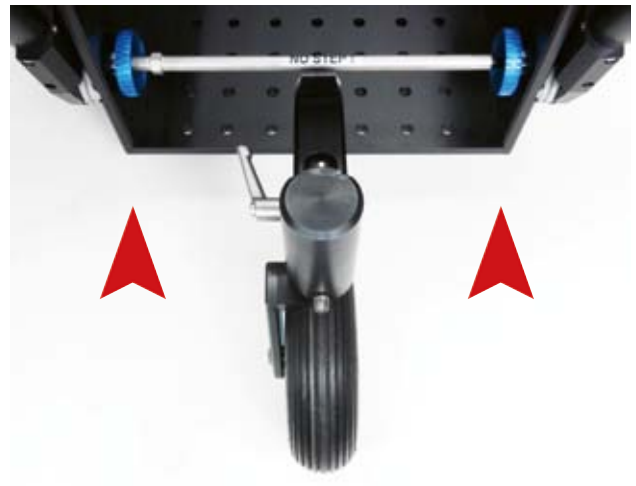
Important



DO NOT separate the push/pull bar from the body.

2.1. Height adjustment

You can adjust the angle of the push/pull bar to anything from 0-100° in increments of 3°. That means each user can find his or her perfect working position. To do this, just loosen the appropriate knurled screws by hand and pivot the push/pull bar into the desired position.



Lock the push/pull bar in position at the desired angle by tightening the screws by hand. Make sure that the push/pull bar is securely locked to the body.

2.2. Length adjustment

Loosen both telescopic tube locks by hand, pull the brake lever, and bring the push/pull bar into the desired position.



Lock the push/pull bar in place by tightening the telescopic clamping lever once the tubes are in the desired position.

2.3. Widening the push/pull bar

The internal telescopic wideners on both sides are equipped with an in-tube clamping device that you can loosen/lock by turning the end of the handle (max. 1.5 turns).



*Open:
Counterclockwise*



*Close:
Clockwise*

Important



Only loosen the telescopic wideners, don't untwist them all the way!

3. Footrest

The footrest is made up of two sections that are connected by locking discs and can be individually adjusted.

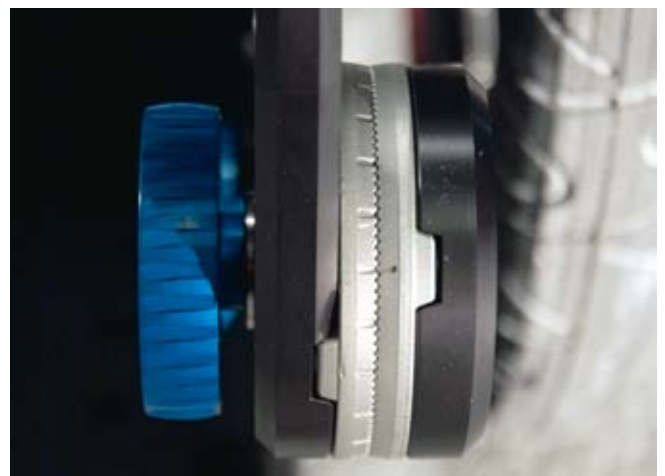


1. *The outer section is fitted to the body and can pivot vertically.*
2. *The inner segment can be rotated 360°.*

To adjust the footrest, just loosen the appropriate knurled screw by hand and pivot the desired section into position.



Use the markings on the locking discs to check the position of each section, then tighten the screws by hand.



Important



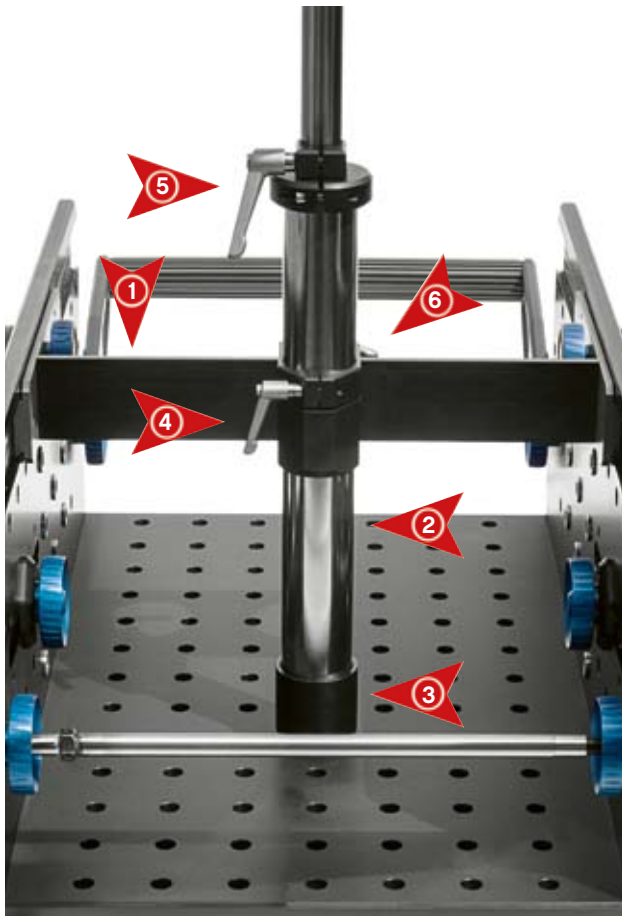
Make sure the footrest doesn't reduce the ground clearance.

Information



You can also use the footrest to jack up the *RICKSHAW DOLLY®*.

4. Seat



1. Crossbar in dovetail guide with ball catch
2. Gas spring
3. Gas spring base with mandrel
4. Clamping lever at base of gas spring
5. Clamping lever for locking the gas spring (lift/rotation)
6. Clamping lever on the gas-spring/crossbar connector
7. Lifting lever
8. Knurled screws to secure crossbar (see page 13)

4.1 Adjusting seat height

To adjust the seat height, loosen the gas spring by releasing the clamping lever (5).



Reach under the seat and pull the lifting lever. Hold on to it and move the seat to the desired height. Now release the lifting lever and lock the gas spring using the clamping lever (5). Locking the gas spring fixes the seat in place and stops it from turning.

Information

If you want to be able to move the chair while you film, you can leave the gas spring unlocked.

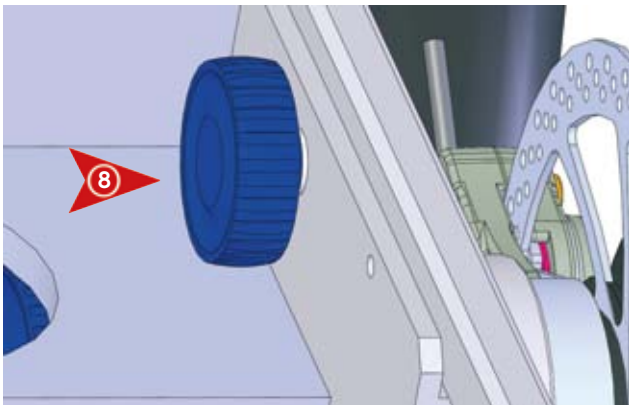
If you want to work without the seat, you can remove it from the body by pulling it through the dovetail guide.

4.2. Changing the seat position

Moving the crossbar:

Release the clamping lever (4) on the base of the gas spring. Then pull the mandrel (3) out of the floor-plate bore grid and fix the gas spring in this position using the clamping lever (4).

Now loosen the knurled screws (8) located at either side of the crossbar and change the position of the crossbar in the dovetail guide by hand.



The ball catch holds the crossbar in place at 50 mm intervals.

Once the crossbar is in the desired position, release the clamping lever (4) on the gas spring base and let the mandrel (3) slide back into the bore grid. Secure the gas spring (2) with the clamping lever (4) and the crossbar with the knurled screws (8).

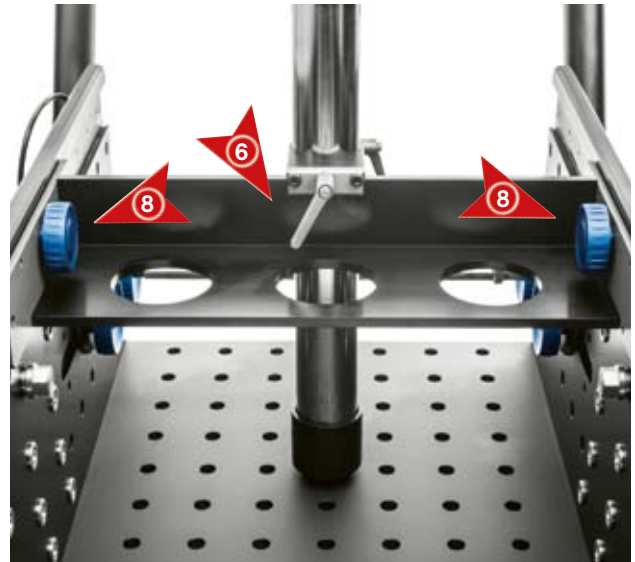
Important



Make sure that the mandrel is properly fitted into the bore grid of the floor plate !

Moving the gas spring sideways along the crossbar:

Lift the gas spring base as described while simultaneously releasing the clamping lever (6) on the gas-spring/crossbar connector.



Clamping lever on the gas-spring/crossbar connector

Hold the gas spring in a vertical position. Move the gas-spring/crossbar connector into the desired position and let the mandrel slide back into the bore grid. Secure the gas spring (2) with the clamping levers.

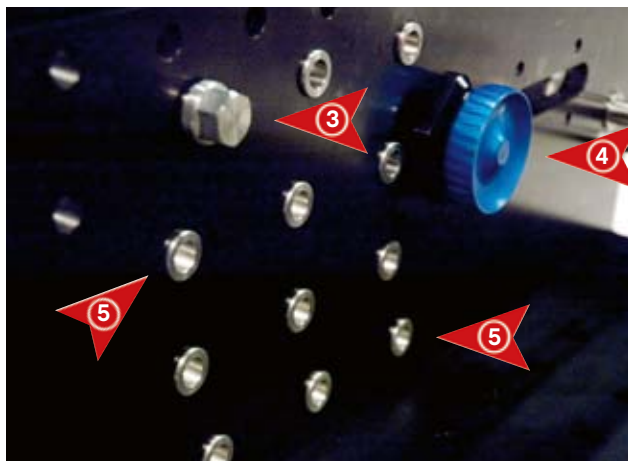
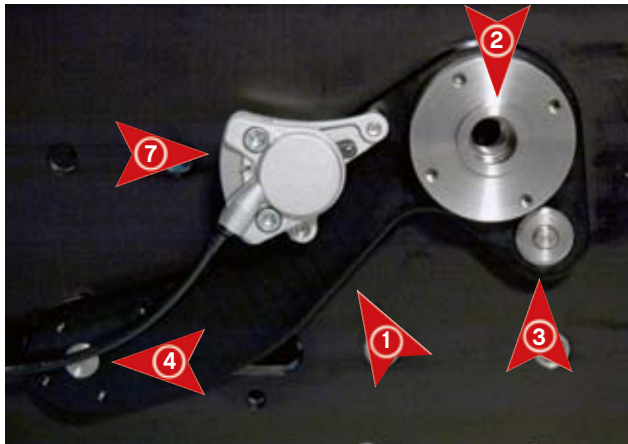


Information

If the crossbar lock catches in the dovetail guide after you have loosened the knurled screws, strike the screws once from the rear using your hand.

5. Main wheel unit

The main wheel unit is made up of a wheel arm with fixed brake caliper and the wheels with a disc brake.



1. Wheel arm
2. Slot for wheel stud
3. Locating bolt
4. Knurled screw
5. 12 wheel-arm positions – three horizontal rows and four vertical rows
6. Baseplate with centering pins (see page 15)
7. Brake caliper

5.1. Adjusting the main wheel unit

You can quickly and easily move the wheel unit horizontally or vertically using the 12 slots in the body. To adjust the unit, jack up the **RICKSHAW DOLLY®**.

Loosen the two fastening elements to the same degree: the knurled screws (4) by hand, and the M12 locating bolt (3) using an SW19 box wrench.

5.2. Vertical adjustment only

Once you have loosened both fastening elements, use one hand to hold the wheel arm/wheel in position and the other to unscrew the locating bolt (3) all the way. Guide the wheel arm/wheel into the desired position and screw the locating bolt back in.

Tighten the knurled screws by hand, and use an SW19 box wrench to tighten the M12 locating bolt (3).

Important

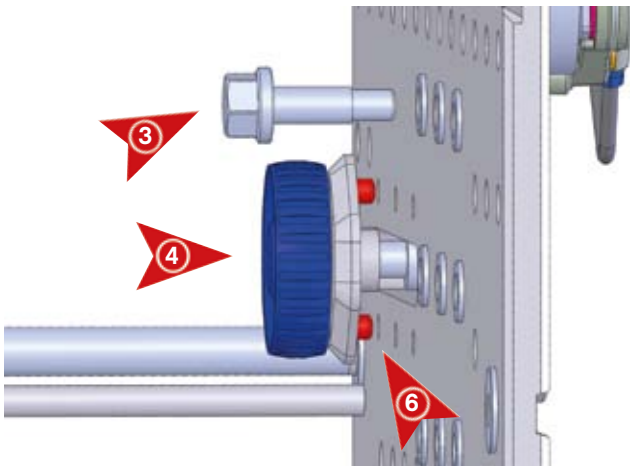


Always check the terrain to see whether the ground clearance of the body is high enough – it's 75 mm in the standard configuration – and that the tracking shots with the **RICKSHAW DOLLY®** can set off without a hitch !

5.3. Horizontal or combined adjustment

Once you have loosened both fastening elements, use one hand to hold the wheel arm / wheel in position and the other to unscrew the locating bolt (3) all the way. Then unscrew the knurled screw (4) far enough to allow you to pull the baseplate with centering pins (6) out of the body. Now move the wheel arm horizontally into one of the three positions provided.

Push the centering pins back into the boreholes and partially tighten the knurled screw by hand. Choose one of the four vertical positions and replace the locating bolt by hand. Now fully tighten the knurled screw by hand, and use an SW19 box wrench to tighten the M12 locating bolt.



- 3. *Locating bolt*
- 4. *Knurled screw*
- 6. *Baseplate with centering pins*

5.4. Removing the main wheels

To remove the wheels jack up the **RICKSHAW DOLLY®**. Hold the wheel in place and loosen the wheel bolt with a Size 8 Allen wrench.

Remove the wheel bolt from the guide and push the wheel out of the brake caliper. Block the brake piston using the retainer lock.



5.5. Big Feet

Bring the Big Feet in position and screw the wheel bolt in. Wheel arm/wheel standard position: Middle of horizontal row/second vertical row.



Important



Air pressure max. 11.6 psi
max. 0.8 bar

6. Brake

The **RICKSHAW DOLLY®** uses a hydraulic braking system by MAGURA® (Big Twin) that allows you to brake safely and gently, even at high speeds.

The fully hydraulic disc brake is equipped with a fully integrated brake-fluid reservoir (open system) and a two-piston fixed calipers with automatic brake-lining adjustment.



1. Brake-fluid reservoir in new protective cage
2. Brake lever

The brake-fluid reservoir must always be on top.

7. Pipe mount

The **RICKSHAW DOLLY®** pipe mount consists of a pipe slot and pipe base.

The pipe slot can be pushed to the left or right in the dovetail guide. The ball catch holds it in place at 50 mm intervals.



1. Dovetail guide with ball catch
2. Pipe holder with knurled screw
3. Knurled screw for the dovetail guide

Important



Test the brakes before every use.

Before transporting the **RICKSHAW DOLLY®**, hold down the brake lever and secure it with the strap.

Information



The ball catch centers the pipe and the pipe base to the borehole in the floor plate.



*Pipe base with mandrel for a
48.3 mm tube
Size: 1.900 inches (pipe size 8)*

Once you have found the desired position on the grid, set down the pipe base and pipe. Push the mandrel into the relevant borehole in the floor plate. Close the pipe holder and tighten the knurled screw by hand.

Information



You can also install the pipe mount on the left or right side, front or backward in the dovetail guide.

8. Euro adapter

You can screw a Euro adapter into any borehole in the floor plate using an M12 x 40 screw.

9. Maintenance

The **RICKSHAW DOLLY®** is a sturdy piece of equipment. It is reliable and does not require much maintenance.

However, to ensure a long life and consistent quality, please handle the components with care. After each use – particularly in dirty, dusty, sandy, damp or salty conditions – you will need to thoroughly service and clean the dolly.

Regularly clean and lubricate the dovetail guides. Make sure that all connections operate smoothly.

Repairs should only be carried out by trained experts. If you experience any problems with your **RICKSHAW DOLLY®**, please feel free to contact us.

Important



Stop using the product immediately if even one part is damaged or missing!

Emergency hotline: +49 (0) 163 4175446

Each time you assemble the dolly, check that each component is complete and undamaged – i.e. that there are no twisted parts, loose screws, etc. Defective components must be replaced.

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