



S-TYPE DOLLY SERIES 3

USER MANUAL



INTRODUCTION

Congratulations to your decision of purchasing or renting your Panther S-Type Dolly. We are pleased that you made your decision in favor of equipment, which combines state-of-the-art technology and many years of experience in manufacturing camera support equipment.

Selected materials and a great know-how ensures that in practice you have a wide variety of possibilities, which you will appreciate during shooting. Your new Panther S-Type Dolly is a high-quality and modern equipment giving the creative cameraman a new easy way to control your movements and get more flexibility.

The Panther S-Type Dolly is a very useful Dolly, developed by specialists for specialists in order to meet the expectations of every cameraman or grip.

To ensure that you will love working with your Panther S-Type Dolly and that all requirements during shooting can be fulfilled considering utmost safety and reliability, please carefully read this user manual.

With our best wishes



Andreas Fitz

CEO | Executive President
Panther GmbH

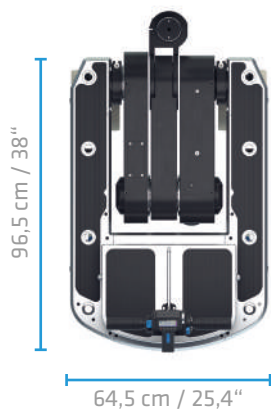
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TECHNICAL DATA



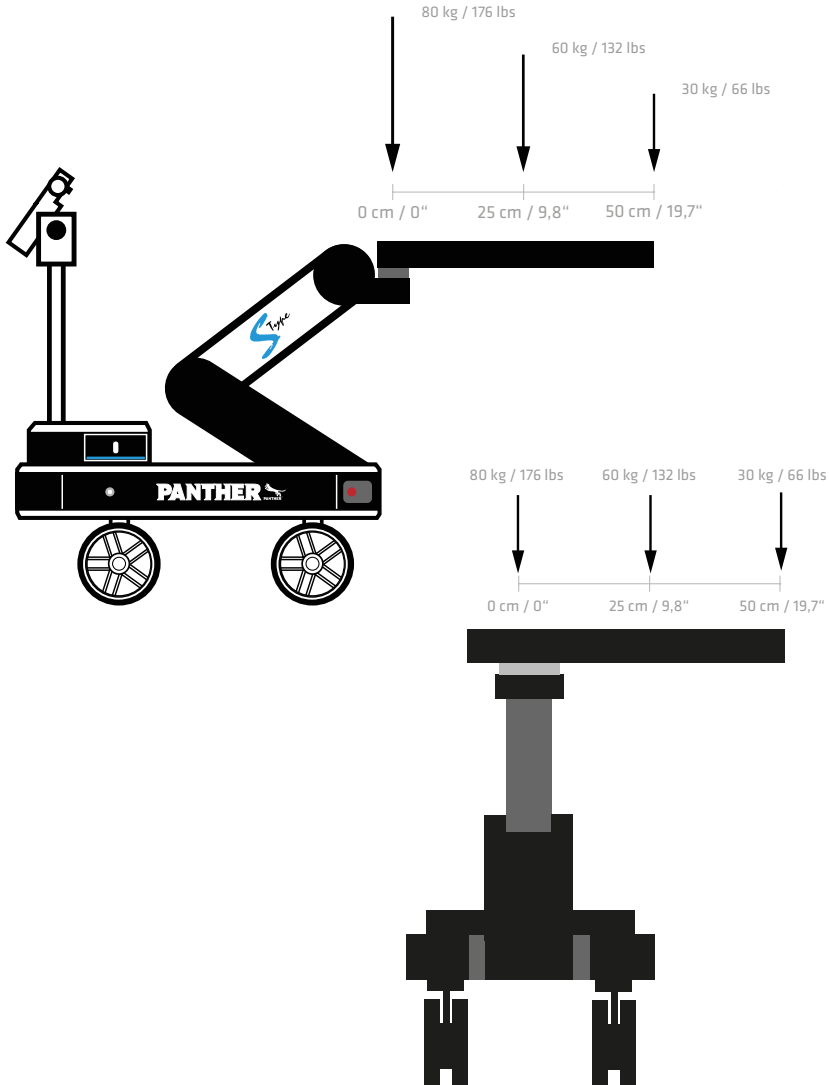
Length (Dolly)	96,5 cm / 38"
Width (Dolly)	64,5 cm / 25,4"
Height (Dolly)	39,5 cm / 15,55" (front) 48 cm / 18,9" (rear)
Center Distance (Scissors-Arm)	37 cm / 14,6"
Standard Lift range (Low-Mode)	103 cm / 40,6"
max. Lift range (Super Low-Mode)	146 cm / 57,5"
Transport weight (Dolly without wheels)	98 kg / 216 lbs
Transport weight (Scissors-Arm)	72 kg / 159 lbs
Track Width	62 cm (wide) 48 cm (narrow)
Ground Clearance	21cm / 8,3"
Payload (Dolly)	800 kg / 1764 lbs
Payload (Scissors-Arm)	80 kg / 176 lbs
Battery	2 x 24V

TECHNICAL DATA

LOAD CHART

Offset

The S-Type Scissors-Arm has a max. payload of 80 kg / 176 lbs. The more you put load into offset the more decrease of your max. payload you have. Overloading the Scissors-Arm is prohibited. Check the load table below for detailed max. payload:



BASIC KNOWLEDGE

Electro-Mechanical Dolly

The Panther S-Type Dolly is a completely electro-mechanical Dolly. That means there is no dripping oil, no pumping up etc. Do not operate underwater or in very wet / humid environments.



Even by laying the Dolly sideways, there is nothing to worry about. The S-type has been designed to be as flexible as possible to make your work on set great!

Only one integrated tool

We designed the S-Type Dolly to be used almost tool-free in order to ensure a fast and easy operating. If there is a tool needed it is always the same: only one Allen Key (8) which has its parking position directly on top of the Dolly. This gives you, the operator, the possibility to work fast and easy, without losing time for searching the right tool.

In fact: whenever you need a tool, it is the one that you can see on the right picture.

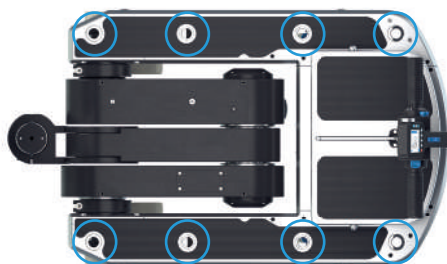


PREPARING SEAT & SEATARM

Seat & Seatarm

The seat arm can be mounted in 8 different positions. Please check the picture on the right.

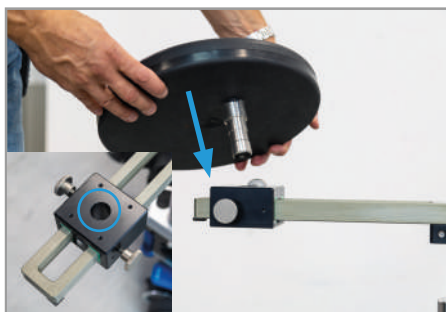
Of course, you can also take a second seat arm and use two at the same time.



Top View



Mounting the seat arm (302792) is done by easy plug & play. Just plug it into the desired position.



Now you can mount the Eccentric Panther Seat (122149) right into the seat arm.



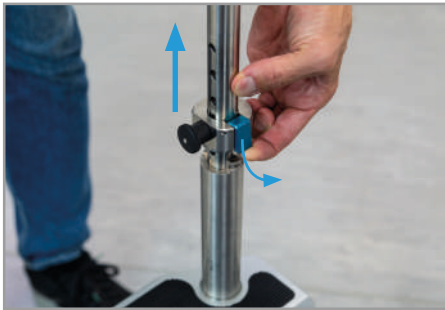
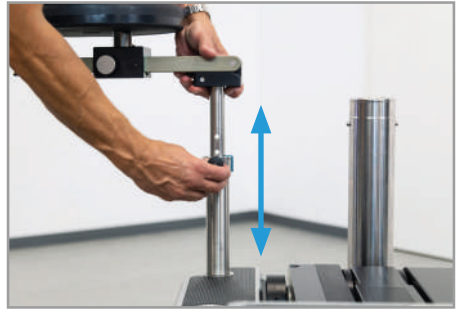
You may have to fasten the Seat Arm to prevent unintentionally wiggling by using the integrated Allen Key and tighten the screws on the side of the Dolly (depending on where you positioned the Seat Arm).



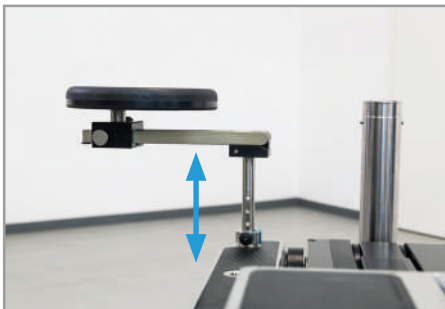
PREPARING SEAT & SEATARM

Height Adjustment

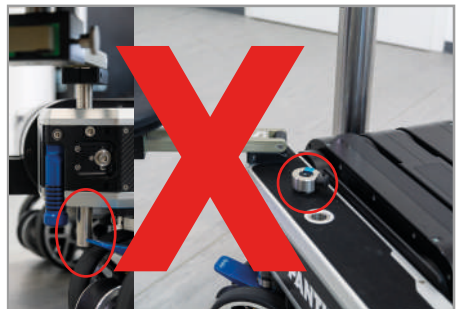
The height of the seat arm can be adjusted tool free. Pull the black knob on the seat arm tube and adjust the height. Push back the black button to fix the position.



If you want to be very low, you can remove the seat arm tube by unlocking it with the blue lever and removing the tube.



Now plug back the seat arm (without the outer tube). Even now you can still readjust the height of the arm.



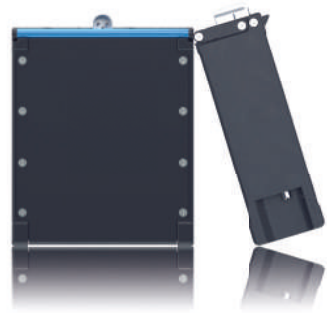
Don't use the seat arm without the blocker (with the black knob & blue lever). Otherwise you would damage the Dolly wheels.

PREPARING

POWER SUPPLY (CHARGING STATION)

Dolly Batteries

The S-Type Dolly is a fully electro-mechanical Dolly. You need 2 batteries (302577) to operate the S-Type. Each pair of batteries lasts for one shooting day. We recommend you to reload it after every shooting day, even if they are still not empty.



Charging Station

Charge smart: with the Charging Station (313165) you can charge up to 2 Batteries simultaneously. It has an integrated handle and a very compact design.

Additional features:

- Dolly Power Supply
- Can also charge Panther „Snap-On“ Batteries via cable
- Input: 100-240V
- Output: 2x 24V, 4A



Case for two charging stations

There is also a Case (313225) available with space for 2 Charging Stations.



PREPARING

POWER SUPPLY (CHARGING STATION)

Either charge the batteries of the S-Type Dolly in advance or connect the Dolly to a power supply during use.

Charge before use



Use our charger for one battery (312859) to charge only one battery.

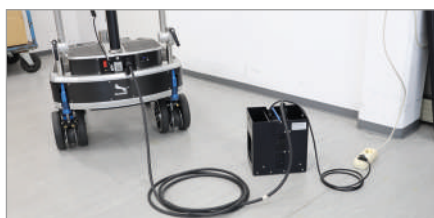


Use our Charging Station to charge up to two batteries.



Use our Case for two Charging Stations to charge up to four batteries.

Charge during use



You can also charge the S-Type Dolly during use. To do this, simply connect our power cable (313426) to the plug on the front and to the charging station.

Note: The batteries must be in the Dolly

Battery level



Our latest batteries have an integrated display on the top to show the battery level in %.

If you still have batteries without display, our Battery Tester (302469) can be used to determine the battery level.



PREPARING

POWER SUPPLY (OPTIONAL CHARGING)

Charging via 230V Charger

To charge a single battery we offer 230V Charger (155559). Plug in one end into a wall socket and the other end into the battery's cable connection slot. The Charger should now begin to blink. If you battery is fully charged, the blinking light should change into a continuously light.



Charging via Combi Charger

To charge 2 batteries simultaneously we offer a Combi Charger (155729). Plug in one end into a wall socket and connect the two 1-Way Charge Cable (134643) - each for one battery.

Now turn on the Combi Charger. The LEDs will show you, when the batteries are fully charged.



PREPARING

POWER SUPPLY (HANDSET)

Charging the Bluetooth Handset

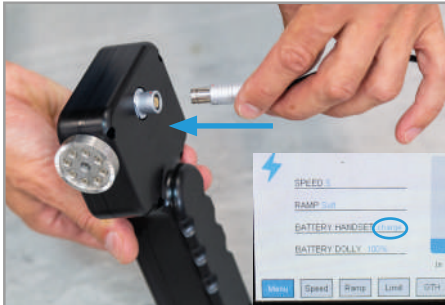
The Bluetooth Handset (311753) can be charged in two different ways: regularly via mains power or by cable connection to the Dolly.



Regular Charging

To charge the Bluetooth Handset you can use the standard charging cable (310848) and plug it into a wall socket.

The display will show „charge“ instead of the remaining capacity.



Charging via Dolly connection

Despite charging the Bluetooth Handset on the wall socket you can connect it directly to your Dolly. Everytime you have a wired connection from the Handset to the Dolly, the Handset will be charged.



We offer 3 different lengths of the cable:

- 310787 Cable for Bluetooth Handset, 60cm
- 313626 Cable for Bluetooth Handset, 10m
- 313875 Cable for Bluetooth Handset, 25m



Attention

Please note, that if your Bluetooth Handset is connected to the S-Type via cable the power will be taken from the Dolly batteries, which decreases the battery capacity of your Dolly.

■ INITIAL OPERATION

Step 1:

Connect the Panther S-Type Dolly batteries as described in „Power Supply“.



The Panther S-Type Dolly may only be operated with the original Panther batteries. Although the batteries left our warehouse fully charged, it is possible that a long transit time/low temperatures caused the batteries to empty. Please check this before operation. Fully charge the batteries before first use.

Step 2:

The Panther S-Types's (and accessories) complete lift, panning and movement range must be cleared before switching on the Dolly.

Step 3:

Connect the Bluetooth Handset via cable to the Dolly.



Step 4:

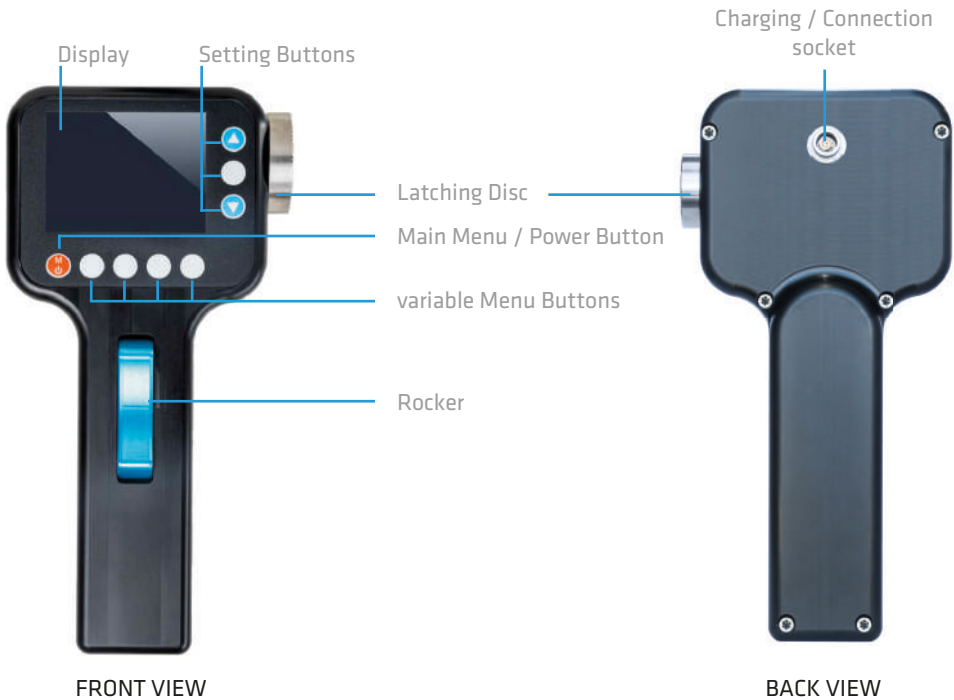
Switch the Dolly on at the red main switch. Then turn on the „On/Off“ button at the Bluetooth Handset.





BLUETOOTH HANDSET

GENERAL



Display

The Display shows all current settings and allows to adjust everything with a easy user interface. The brightness of the Display is adjustable.

Buttons

Turn On / Off the Handset by pressing the Main Menu / Power button for a few seconds. The variable menu buttons are used to select the category. The Setting Buttons are used to navigate through the menu.

Rocker

Move the scissors-arm up or down with the Handset rocker.

Charging / Connection Socket

Connect the Handset via cable to synchronize with the Dolly and to charge the internal battery.

Latching Disc

The locking plate attaches the Handset control to a fluid head or to the Dolly's body.

BLUETOOTH HANDSET

GENERAL

Water resistance

The Panther Bluetooth Handset is precision-engineered to resist water and dust.

Degree of protection: IP67

IP67

(water protection)

Protection against ingress of water
in case of temporary immersion
(up to 1m/39,4" - 30 minutes)

(foreign bodies protection)

Total protection against contact, protection
against penetration of dust.

To ensure this high resistance there is no possibility of a removable battery. The Handsets' battery is totally integrated in this device. If you have problems with your battery please contact our service department (contact details can be found on the last page).

The Bluetooth Handset may not be opened by yourself. Consider that the Bluetooth Handset was not made to operate underwater. The water resistance is only to protect you device.

Frequency band

The Panther Bluetooth Handset sends on a frequency of 2,4 GHz (ISM band).

Distance

The maximum reach of the Panther Bluetooth Handset is up to 50m / 164 ft. - this value always depends on your current location (many walls or no walls, forest or field etc.).

Signal interference may occur in certain areas where many signals are present.

If an even longer range from Handset to Dolly is required, we have our antenna (313625) for a distance of up to 80m.



Attention

Please check that you always have direct sight to your Dolly during the complete time of operation! Using this mobile device without visual contact is at your own risk.

BLUETOOTH HANDSET

GENERAL

Connection Status



Handset and Dolly
connected via cable



Handset and Dolly
connected via bluetooth

Current Settings

+

Battery Status of Dolly and Handset

Scissors Arm Position in %

Menu

go to menu

Speed

set speed

Ramp

set ramp

Limit

set height limit

PRG

This button can be
configured as required



BLUETOOTH HANDSET

CONNECT HANDSET WITH DOLLY

If the Handset shows „DISCONNECTED“ you need to (re)connect the Handset to the Dolly.

1. Go to **Menu**

2. Go to „Settings“

3. Go to „Connection“

4. Wait until the Handset says „Searching“

5. Now you can choose the right Dolly (to be identified with its serial number) with pressing the marked button

6. As your Handset and the Dolly are connected, the marked symbol turned from grey to blue. The Battery level of the Dolly is shown as well.



BLUETOOTH HANDSET

SPEED & HIGH SPEED

Regular speeds:



The currently set speed of the scissor movement is shown at the marked position. To change this, the following must be done:

1. Go to **Speed**

2. Set your desired speed level with the arrows and select with the marked button.

You can choose between 5 different speed levels:

- speed 1: 0 - 20%
- speed 2: 0 - 40%
- speed 3: 0 - 60%
- speed 4: 0 - 80%
- speed 5: 0 - 100%

High Speed:



1. Go to **Menu** then „Settings“

2. Select „High Speed“

3. Confirm max. payload and increase in noise & reduction in smoothness

4. Ready to go
(to deactivate High Speed, select another speed level)

The Bluetooth Handset comes with a blue high sensitive rocker. Depending on how hard you are pressing upwards / downwards the speed of the Arm increases or decreases.



Side View

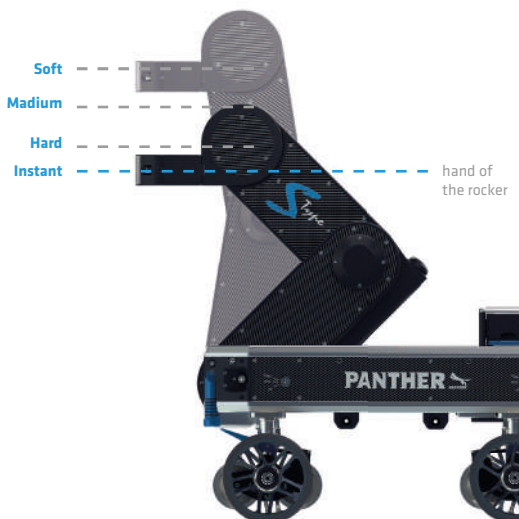
BLUETOOTH HANDSET RAMPS

What is Ramp?

There are different ramps depending on how abruptly you want the scissor arm to stop when moving up or down.

You can choose between 4 different ramps:

- Soft:** acceleration very soft, hardly perceivable
- Medium:** characteristic between soft and hard
- Hard:** strong acceleration to maximum speed, strong deceleration until stopping
- Instant:** movement stops immediately



Setting Ramps:



The currently set ramp of the scissor movement is shown at the marked position. To change this, the following must be done:

1. Go to **Ramp**

2. Set your desired ramp level with the arrows and select with the marked button.

You can choose between 4 different ramp levels:

- Soft**
- Medium**
- Hard**
- Instant**

BLUETOOTH HANDSET

LIMITS



To make the up and down movements more precise, limits can be set at freely selectable heights.

1. Go to **Limit**

2. Set an upper and / or lower limit by selecting the right buttons for **Up** or **Down**. Move the scissors with the rocker to the desired position and confirm with OK (marked button).

3. The red lines mark the limits. If you want to change, deactivate or delete the limits, press **Option**.

4. If a limit is deactivated, this is indicated by a white dashed line. This can be reactivated if required

5. Back in the main menu, the limits are still indicated by red lines (or white dashed lines if deactivated). „LIMIT ACTIVE“ is also displayed in red at the top

BLUETOOTH HANDSET SETTINGS



1. Go to **Menu**



2. Select „Settings“



Language:
Select the language that suits you best.
Are you missing an important language?
Please contact us and we will add it.

High Speed:
Select High Speed Mode

Shortcuts:
The button in the main menu at the bottom right is freely selectable. You can place the following short cuts on this button:

- LCD Brightness
- Program
- Go to horizontal
- Super Low

LCD Brightness:
Select the brightness of the display.

Connection:
Connect Dolly and Handset.

Rocker Calibration:
Calibrate the Rocker.
this.

Brake open time:
The brake on the scissor arm makes a clicking noise. If complete silence is required when shooting, the time until the sound is heard can be delayed by up to 2 minutes.

Factory Reset:

You can do this if you want to reset the Handset to the factory settings. There is also a key combination for this: Push the marked buttons at the same time!



Info:

The software status of the Handset and the Dolly can be displayed here:



Service & Factory Menu:

Password protected. Important for Panther when servicing.

BLUETOOTH HANDSET

SUPER LOW MODE

Super Low Mode

In order to use the full length of the scissors-arm, we developed the patented fullrange technology. This allows the scissors-arm to move the same way up as down into the negative.

To prevent crashing the floor with the scissors-arm by mistake you have to activate the Super Low Mode in the Service Menu when it is needed.



Attention

If the Super Low Mode is activated, please operate very carefully, because it will run over it's ground level position.

Make sure the way for the Scissors-Arm is completely free and that you don't damage the Scissors-Arm or the floor. Please make sure that the max. payload is 30 kg / 65 lbs!



How to activate / deactivate the Super Low Mode



1. Go to **Menu**

2. Select „Super Low“

3. Now you can activate „On“ or deactivate „Off“ Super Low Mode

4. If Super Low Mode is activated, it will be shown in the main menu

BLUETOOTH HANDSET

PROGRAMMING MOVEMENTS

The S-Type Dolly can memorise and reproduce various movement sequences. These sequences can be programmed either freely or manually.

Programming both variants is intuitive and the Handset automatically guides you through the programming process.



1. Go to **Menu**

2. Go to „Program“

3. Choose what you want to do

CONTROL PANEL

CONTROL LEDs

Control LEDs:

Power:	yellow LED	Dolly is ON
Upper limit:	green LED	Blinking if upper limit is active
Lower limit:	red LED	Blinking if lower limit is active



General Information

The S-Type Dolly has been designed to carry heavy loads in order to ensure you the most flexibility on set. The following table informs you about when to use which wheel do achieve the best possible working experience.

Studio Wheels hard	recommended to a load of max. 800 kg
Studio Wheels soft	recommended to a load of max. 350 kg
Pneumatic Wheels	recommended to a load of max. 100 kg (tire pressure 3,2 - 3,5 bar)
Big Wheels	recommended to a load of max. 100 kg (tire pressure 4,5 - 5 bar)

Distinguish the Studio Wheels

Studio Wheel hard and soft - both of them are black rubberized. To distinguish them you have to take a look onto the rim of it. Every Studio Wheel has lasered the type of wheel in the rim to make it easy to identify.



H = Hard (310289)
S = Soft (310615)



Attention

Long standing times are creating bruises on the Studio Wheels. We recommend you the usage of the Big Wheels (or other appropriate measures) for longer standing times of the Dolly.

WHEELS

CHANGING WHEELS

Dolly Jack

Changing the wheels is done very fast and easy with the Dolly Jack (311199) and the Wheel Changing Tool (100453). It lifts up the S-Type in seconds without needing much power.



this side up
for S-Type Dolly



Adjust the height of the Dolly Jack depending on the surface where you want to change wheels.



Push the Dolly Jack into one of the holes on the side of the S-Type.



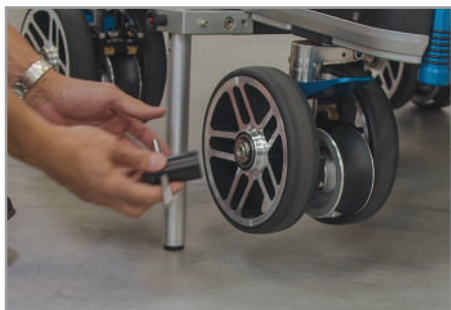
Leverage the S-Type with the Dolly Jack.



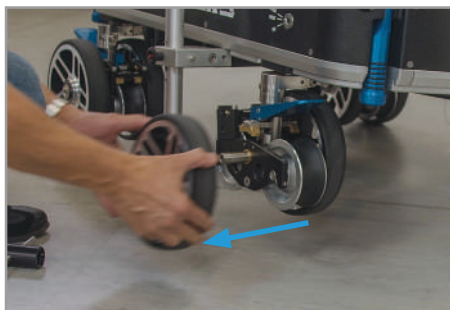
The wheels on one side are now free and ready to be changed.

WHEELS

CHANGING WHEELS



Take the Wheel Changing Tool and open the screw on the side of the wheel.



Take out the wheel by pulling.



Attache the new wheel by pushing it into the Wheel Mount axis.



Rescrew it with the Wheel Changing Tool.

Pneumatic Wheels & Studio Wheels Air

Changing to other wheels is done the same way. In order to use them, please make sure that you fill it with 3,2 - 3,5 bar tire pressure.



Pneumatic Wheel
(138802)



Studio Wheel Air
(312278)

WHEELS

BIG WHEELS

Big Wheels

The Big Wheels are designed to bring your Dolly easy to your location also on rough terrain. It gives the S-Type more ground clearance as usual.

Mounting the Big Wheels is done very fast and easy with the Dolly Jack (311199) and the Wheel Changing Tool (100453). It lifts up the S-Type in seconds without needing much power.



Big Wheel with Axle (311095)



Attention

To be completely free with the Dolly movements you should first put all wheels into the Narrow-Gauge. Otherwise you may have problems in tight curves.



Adjust the height of the Dolly Jack depending on the surface where you want to change wheels.



Push the Dolly Jack into one of the holes on the side of the S-Type.

WHEELS

BIG WHEELS



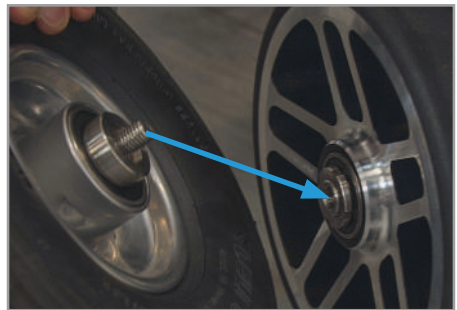
Leverage the S-Type with the Dolly Jack.



The wheels on one side are now free and ready to be changed.



Use the integrated Allen Key to mount the Big Wheels.



Mount it on top of the Studio Wheels (without remounting them).



Do not mount the Big Wheels in standard gauge. Only in narrow gauge.



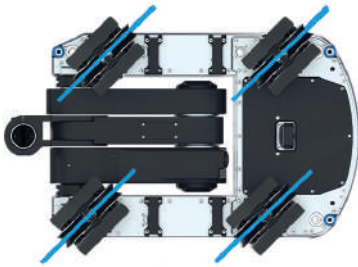
Repeat these steps with the 3 other wheels.

STEERING

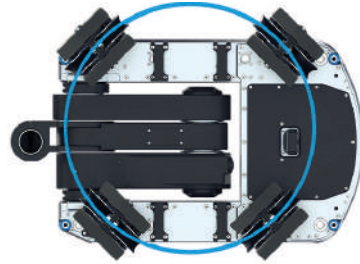
GENERAL

4 Steering Modes

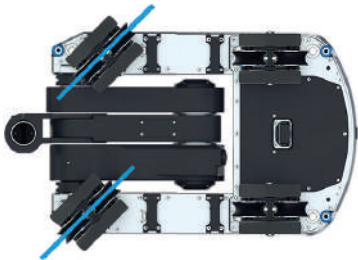
The S-Type Dolly offers 4 different steering modes: Crab, Round, Conventional Front and Conventional Rear.



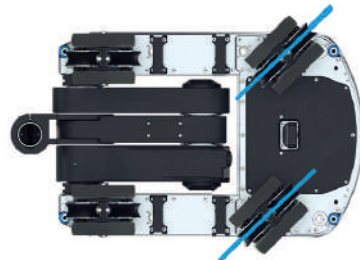
CRAB MODE
(4-Wheel Steering)



ROUND MODE
(4-Wheel Steering)



CONVENTIONAL FRONT
(2-Wheel Steering)



CONVENTIONAL REAR
(2-Wheel Steering)

STEERING

CRAB & ROUND

Switching between Crab & Round

To switch from Crab to Round mode (or the other way) please follow these steps:



Press and hold the blue button on the left side of your Dolly push rod. Now turn the handle on the right side to CRAB / ROUND (depending on your initial position).



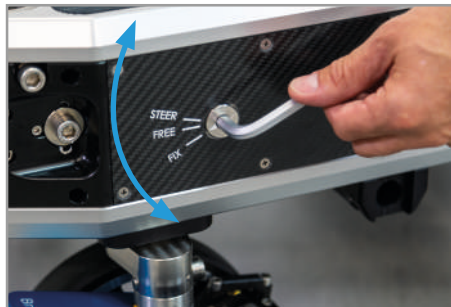
Make sure that your Dolly push rod and your wheels are in 100% straight position. Otherwise the switching mechanism will not work, because you can not unlock by pushing the blue button.

STEERING

CONVENTIONAL FRONT / REAR

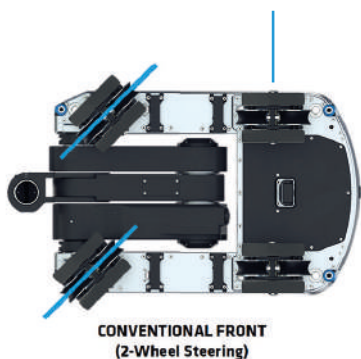
Switching to Conventional Front / Rear

To use a front or a rear wheel steering you first have to go to regular Round Mode. The 2-wheel steering modes are activated by blocking either the front or rear wheels.

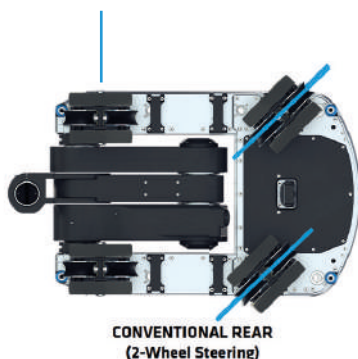


Take the integrated Allen Key and block the front or rear wheels by switch the screws on the side of the Dolly to „FIX“. Now the wheels will keep their straight position.

Rear Wheels Blocked



Front Wheels Blocked



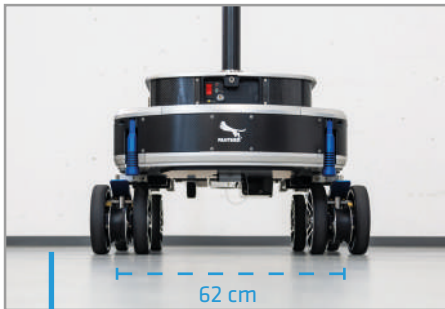
STEERING

NARROW-GAUGE

Narrow-Gauge

The S-Type wheel arms are eccentric. That means you can easily switch between the standard gauge (62 cm on track) and a narrow gauge (48 cm on track) for passing doors or operate in tight environments.

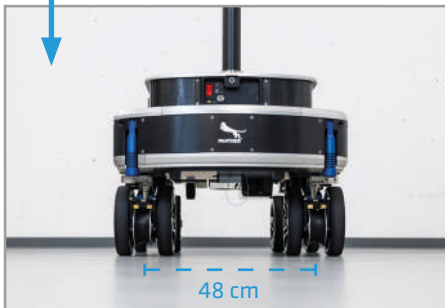
To do so you only have to turn the Steering Rod 180°:



Standard Track Width
62 cm



Turn the Steering Rod 180°



Narrow Track Width
48 cm

STEERING

STEERING ROD

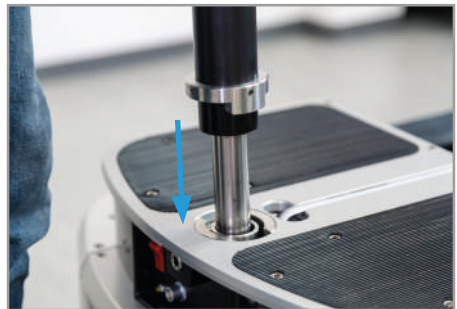
Remove the Steering Rod

The S-Type Steering Rod is removable. If you go for example from Standard Gauge to Narrow Gauge the Steering Rod is turned around into the other direction.



To turn it, you only have to pull it out of the Dolly. Maybe you have to open the screw on the front panel with the integrated Allen Key, first.

Now turn it around and push it back into the Dolly. If necessary you can tight the screw on the front panel to fix it.



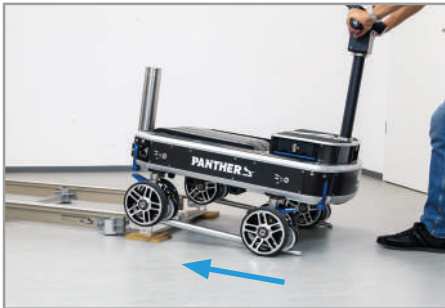
STEERING

DOLLY ON TRACKS

Use the S-Type on Tracks

The S-Type wheels are aligned in a square. Therefore the Dolly can be moved both lengthwise and crosswise on track – without using other wheels or accessories.

To bring it lengthwise on track, position the Dolly in one line with the track. If you are using curved tracks you have to switch all 4 wheel arms to „FREE“ with the integrated Allen Key.

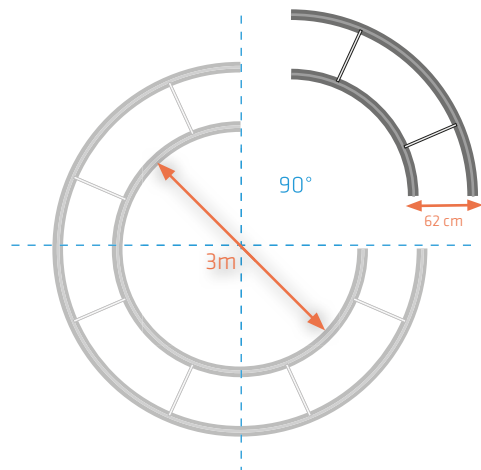


A starter ramp can help you to bring the Dolly on tracks. Now push the Dolly on tracks.



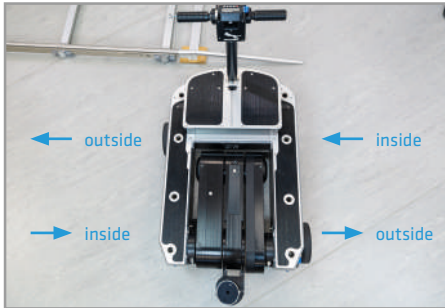
If the S-Type is used on curved tracks you have to put all 4 wheels to „FREE“ position.

The Dolly can be driven on round tracks with an internal diameter of 3 metres or larger.



STEERING

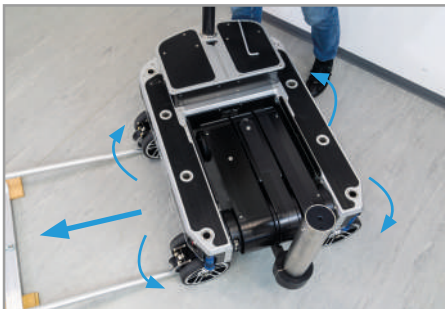
DOLLY ON TRACKS



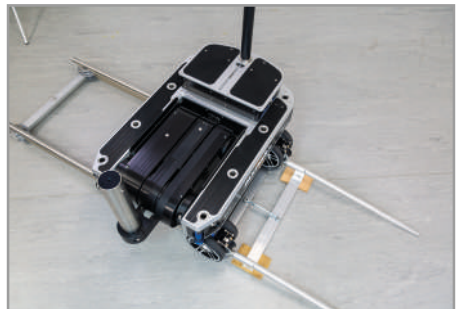
To bring the Dolly crosswise on track, you first need to align two wheels diagonally inside, as shown in the picture.



To do so you have to switch first to „FREE“ (to be able to manually move them), but after aligning switch them back to „Steer“.



Now by turning the Steering Rod 90° all 4 wheel arms will go automatically into the outer eccentric position as shown in the picture. The wheels are in crosswise track position now and the Dolly can be pushed on tracks.



Attention

If the S-Type is used crosswise on the track (rotated by 90°, 62 cm wide track), the brake levers (after standard delivery of the wheels) are located underneath the body and are difficult to operate from the outside. To counteract this, it is advisable to convert at least two of the four wheel units. How this works is shown on the next page.

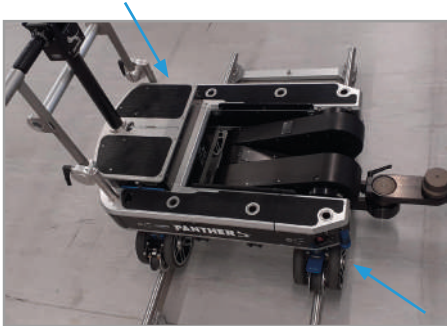


STEERING

DOLLY ON TRACKS

Conversion of wheel unit

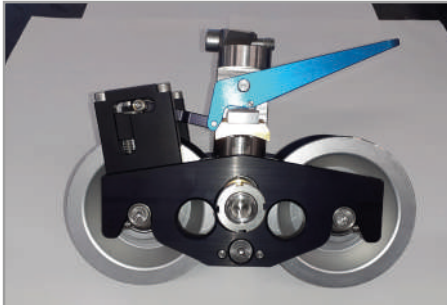
The wheel units can be converted to make it easier to access the brake levers on the wide gauge.



It is advisable to convert two diagonally opposite wheel.



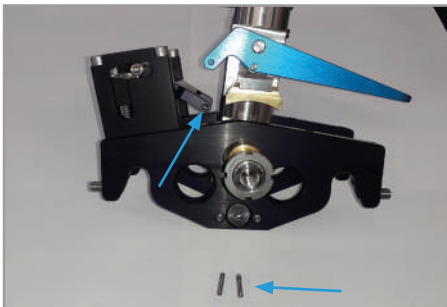
Here you can see all required tools.



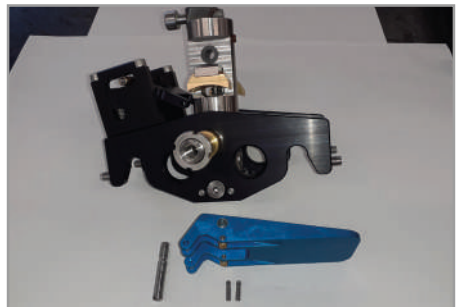
Remove the wheel unit from the Dolly. Then remove the Studio Wheels.



Remove the track wheels.



Remove the two small marked screws.



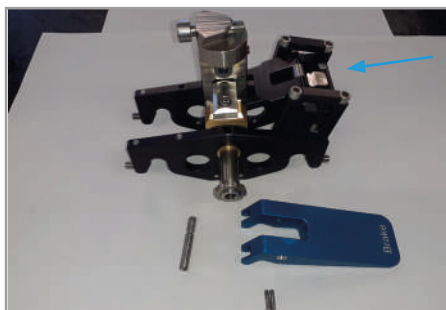
Now remove the brake lever.

STEERING

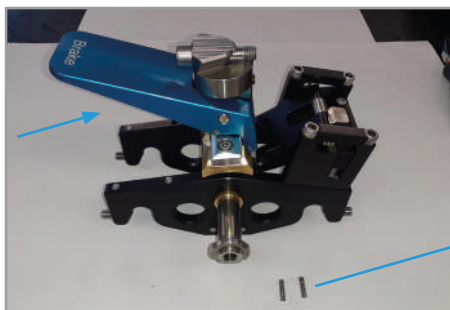
DOLLY ON TRACKS



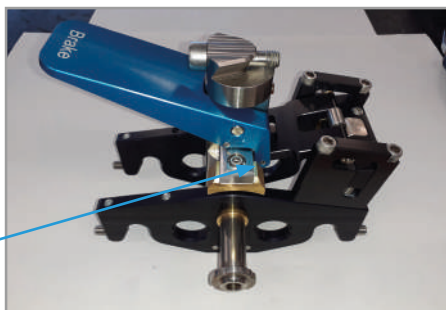
Now remove the black block



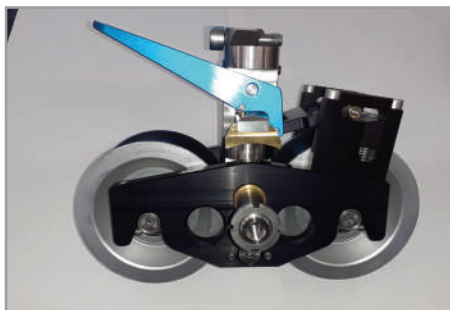
Attach the black block to the other side of the wheel unit.



Attach the brake lever to the other side as well.



Replace the two small screws on the opposite side.



Wheel unit now fully converted: refit to the Dolly.



Now you can easily brake the track wheels if the Dolly is 90° turned on a wide track (62cm).

ACCESSORIES

PUSH BAR

Foldable Push Bar

The foldable Push Bar (301342) is designed to be used in many different ways. There is only one Push Bar needed for all situations such as pushing the Dolly **regularly**, pushing the Dolly **beside the track**, pushing the Dolly **crosswise to the track**.

Regular

As an additional comfort you can plug in the push bar on the backside of the Dolly.

To fold it, you only have to open the left and right lever, and choose your position.



Beside the track

Take out the extension from it's parking position.



It is mounted by rotating clockwise on the left or the right side of the Push bar.

ACCESSORIES

PUSH BAR



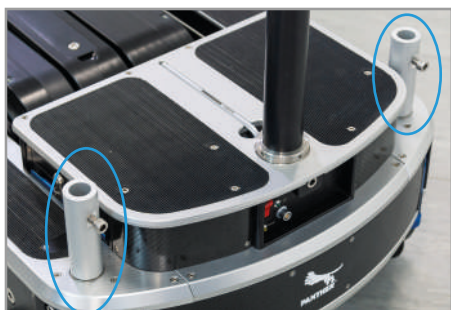
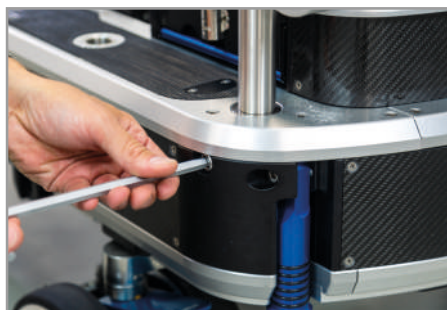
To use the Pushbar Crosswise to the track you can reposition it by plugging it in on the side of the Dolly.
You can use 2 different positions on the side.



To use the extension you have to open it by turning the left and right side contrariwise and the spread it into the Push Bar.



You may have to fasten the Push Bar to prevent unintentionally wiggling by using the integrated Allen Key and tighten the screws on the side of the Dolly (depending on where you positioned the Push Bar).



Height Extension

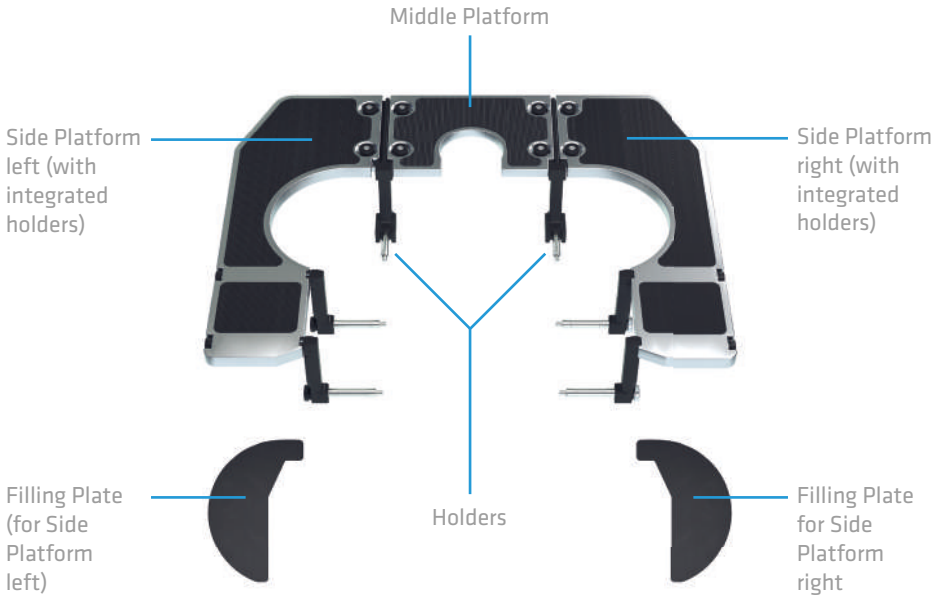
If you want to extend the height of your Push Bar there is an extension (311049) available. It is used by mounting it in between the Push Bar & the Dolly.

ACCESSORIES

PLATFORM SET

Platform Set

The S-Type Dolly needs only one Platform Set (302583) because we designed the platforms to be used as high and low platform. The set consists of 3 platforms, 2 holders and 2 filling plates.



How can it be used?

You can mount the Platform Set in different setups - depending on your or the cameramen's requirements on set (pictures are from top view).



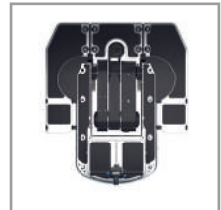
Side Platform Single usage (left / right)



Middle Platform Single Usage



Combination Middle Platform + One Side Platform



All Platforms

ACCESSORIES

PLATFORM SET

How to mount the platforms

Mounting the S-Type platforms is done completely tool-free. You can use one set in high or in low mode - depending on your requirements.

The following steps are starting with the high mode.



To mount the Middle Platform you have to attach the two holders by fastening the black knobs on each side of the platform. Now you have one unit as shown in the picture.



Mount the Middle Platform on the front side of the Dolly by pushing it inside of the two front holes.



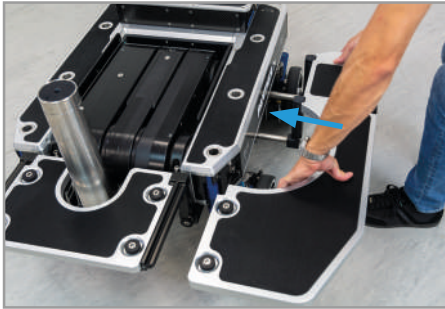
After you pushed it in you have to fasten the black knob on both of the holders clockwise.



If necessary you can make it even stronger by using the integrated Allen Key (works on all black knobs).

ACCESSORIES

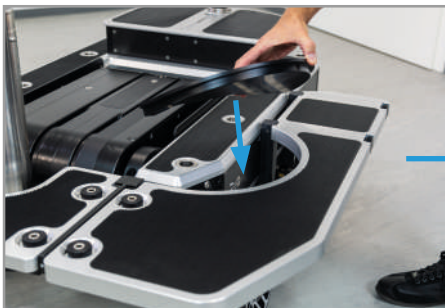
PLATFORM SET



Now you can take the Side Platform to mount it the same way you did with the Middle Platform.



Make sure to fasten the black knobs on the Side Platform as well.



If necessary you can now take the filling plate to build one flat surface.



High / Low Mode

To switch now from high to low mode of the platforms the first thing you have to do is to turn the wheels from the standard gauge to narrow gauge by turning the Steering Rod 180° (please read topic „Steering - Narrow Gauge“ to learn more about this step).



ACCESSORIES

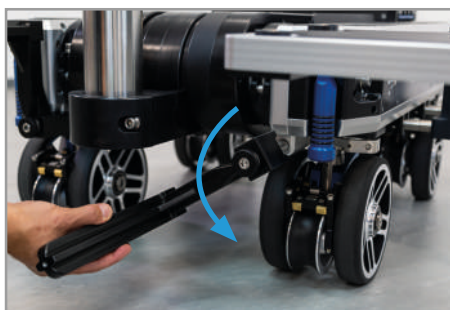
PLATFORM SET



Open the Side Platform and pull it out a little bit by turning the black knobs counterclockwise.



Open the Middle Platform the same way and pull it completely out.



Open the two holders and turn it around 180°.



Fasten the black knobs on both sides.



Push in the Middle Platform and fasten the black knobs.



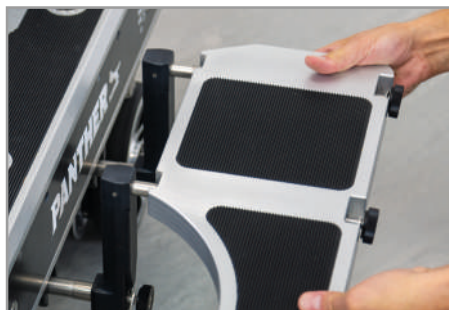
Open the black knobs on the outside of the Side Platform.

ACCESSORIES

PLATFORM SET



Pull the Side Platform a little bit out of the two integrated holders by holding them.



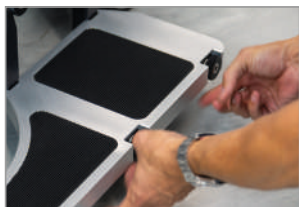
Now you should have a gap between Platform and holders as shown in the picture.



Swivel down the Side Platform.



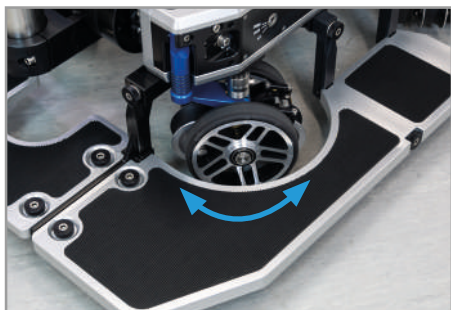
Push back the Side Platform into all holders, and the two integrated holders into the Dolly.



Fasten all black knobs by turning them clockwise

ACCESSORIES

PLATFORM SET



Even in low mode you are completely free with your wheels. You don't have to worry about crashing the platforms while you are moving the Dolly.



Attention

If you want to use only the left or right Side Platform you additionally need the holders on the front for stability. By using the Side Platform without the holders it may bend / damage your platform.

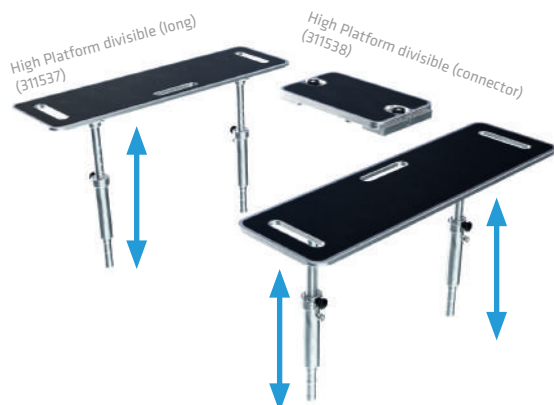
ACCESSORIES

HIGH PLATFORM

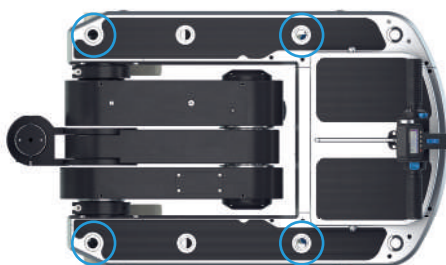
High Platforms

To allow the cameraman to stand on a higher level there is a height adjustable High Platform (311537) available.

It can be mounted toolfree directly onto the Dolly.



Push the High Platform's legs into the holes of the Dolly (see picture on the right).



Top View



The height can be adjusted tool free. Just open the black knob and adjust the height. Push back the black button to fix the position.



After all mountings & adjustments make sure you tighten the screws on each leg for a safe and stable stand on the platform.

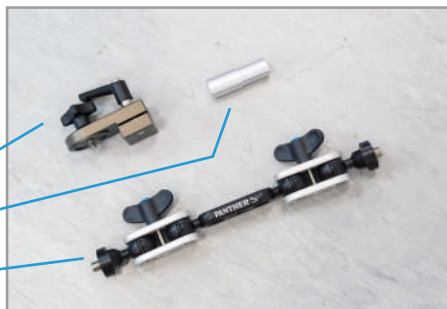
ACCESSORIES

FLEX ARM

Flex Arm for Bluetooth Handset

If you want to be more flexible with the positioning of the Bluetooth Handset there is a Flex Arm available. This is what you need:

- Handset Adapter 18mm (311567)
- Adapter 3/8" (310487)
- Flex Arm 3/8" (310482)



Mount the Handset Adapter 18mm to the Bluetooth Handset.



Mount the Flex Arm 3/8" on the bottom side of the S-Type Steering Rod.



You can tighten it with a wrench.



Mount the Adapter 3/8" on the other side of the Flex Arm.

ACCESSORIES

FLEX ARM



Attach the Bluetooth Handset to the Flex Arm as shown in the picture and fix it with the black lever on the side.



Start positioning the Bluetooth Handset by opening the Flex Arm's wing bolts and refix it when you have reached the desired position.



You can extend the Flex Arm's length if you have more than one piece of it available.



Combining two or more Flex Arms is possible.

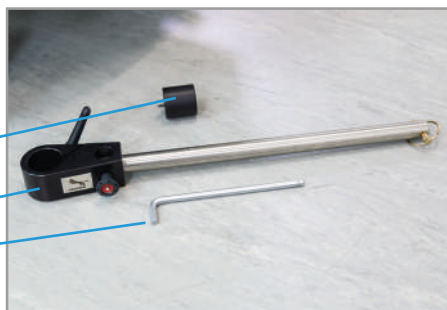
ACCESSORIES

COUNTERWEIGHT

Counterweight for Offset Operation

If you have a very offset setup in the front of the Dolly, you may need to add some counterweights. This is what you need:

- Holder (178530)
- Counter Balance Rod (310836)
- Integrated Allen Key (311050)



The Holder has to be mounted into the thread on the bottom-back side of the S-Type Dolly (near to the integrated carrying bar).



Use the integrated Allen Key to tighten the Holder.



Mount the Counter Balance Rod tool-free and fasten the lever on the side to prevent an unintentional tilting of the Dolly.



Now you can put counterweights on the Counter Balance Rod until you are in the right level.

ACCESSORIES

COUNTERWEIGHT



DANGER!

Keep in mind, that the center of gravity (weight on the Scissors-Arm) is moving forward by lifting the arm. Danger of tilting!

ACCESSORIES

CAMERA MOUNT

Camera Mount

The S-Type Dolly comes with a 80mm Tube which allows a variety of different camera mounts and positions. You can use Bowls, Mitchell Plates and more to mount your camera. Please take a look at our accessories program or contact us directly to get more information about it.

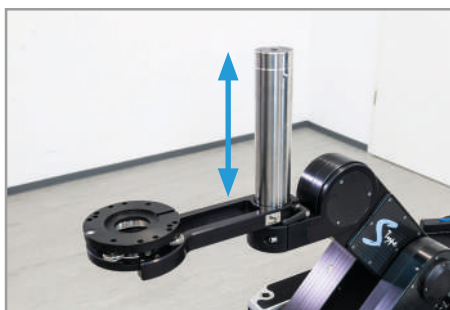
In our example we're using an Offset Bracket combined with a standard Mitchell Plate.



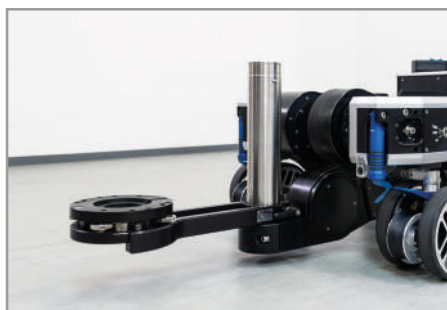
Mounting is done by Plug & Play as shown in the picture.



To vary the height of the Offset Bracket you have to press the two pins.



You can position the Offset Bracket everywhere along the 80mm Tube and fix it by turning the lever on the side of the bracket.



There is no separate Low Rig needed to reach a ground level position because the arm itself is your Low Rig.

ACCESSORIES

CAMERA MOUNT



Attention

Always position the locking lever in a position without crashing the scissors-arm or any other obstacles.



Centered Camera Position

The length of the 80mm Tube is chosen to still let you center the camera in the middle of the Dolly without crashing the arm with the camera mount - even on ground level position as you can see in the left picture.



To unmount the 80mm Tube you can use the integrated Allen Key, open the screw and take out the 80mm Tube.



Now you can use other accessories to mount your camera as for example a Double Euromount (125137).

ACCESSORIES

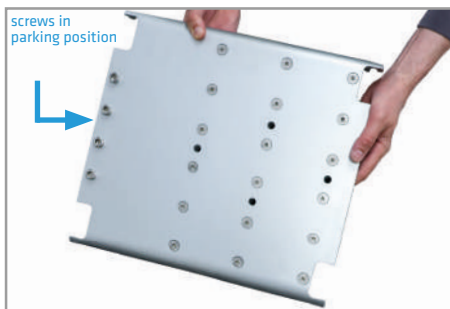
CAMERA MOUNT



To get more information about all types of Panther accessories you can take a look at our website at www.panther.tv or contact us directly.

ACCESSORIES

CENTER PLATE



With the Center Plate, the S-Type can be used as a Base Dolly.



Attach screws from parking position at marked positions.



Now place the Center Plate on the screws and tighten the screws.



For example, a turnstile can be attached using the existing hole pattern.

ACCESSORIES

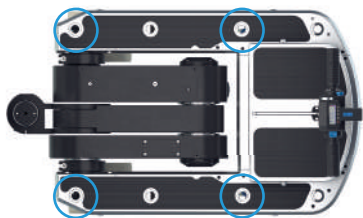
CENTER MOUNT

Center Mount

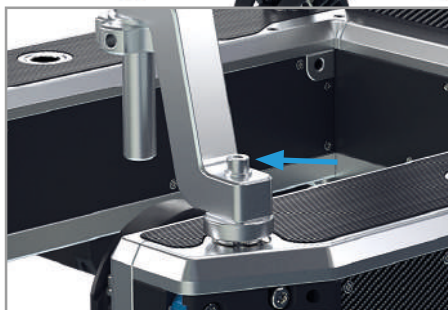
With the Center Mount (302359), the Dolly serves as a base for jib arms or cranes up to a weight of 800 kg.



Top View



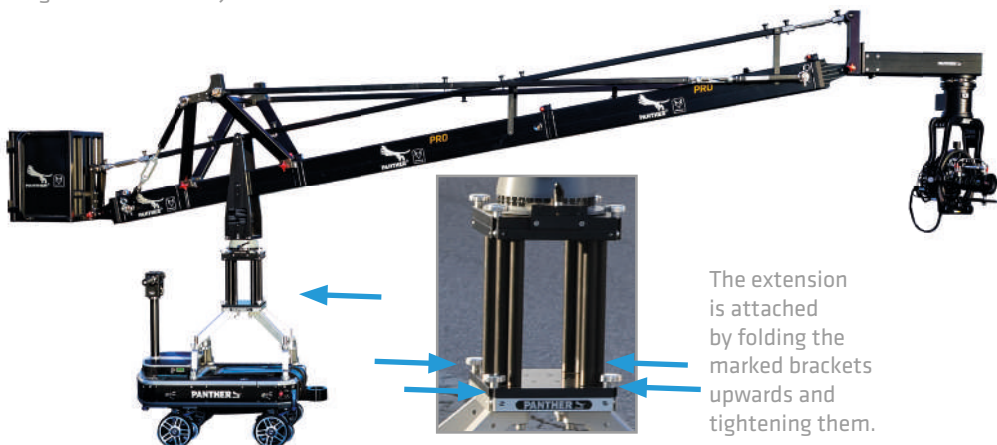
The Center Mount is attached at the marked holes.



To tighten the centre mount, all four screws must be tightened as shown (8mm Allen Key).

Center Mount Extension

With our Center Mount Extension (310767), a greater lift of the jib or crane can be achieved.



The extension is attached by folding the marked brackets upwards and tightening them.

ACCESSORIES

BUMPER

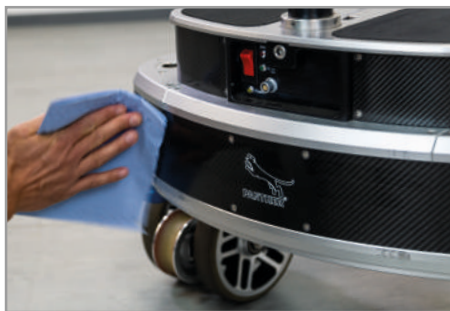


Bumper

The Bumper (311568) allows the operator to start pushing the Dolly using his leg without any pain on it because of the soft surface of the Bumper.



To attach the Bumper to the S-Type Dolly you first have to clean the surface of the back carbon cover.



Remove the upper 4 screws of the back carbon cover with a screwdriver.



The take the first velcro fastener strip and stick it onto the top of the back cover.

ACCESSORIES

BUMPER



When the strip is stuck on, take a cutter and make small slits into the velcro fastener (only where the carbon cover has holes for the screws).



After cutting you can put the screws to the upper side.



Repeat all steps for the bottom side.



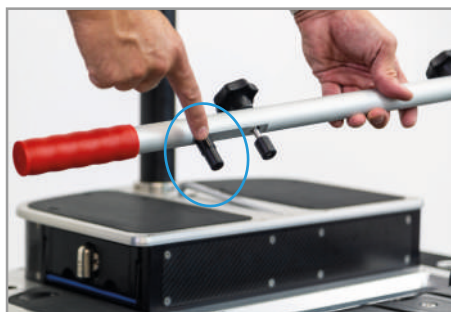
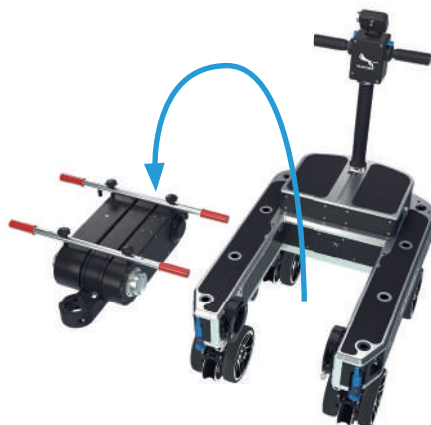
Attach the bumper to the required position along the backside of the Dolly.

TRANSPORT

REMOVE THE SCISSORS-ARM

Remove the Scissors-Arm

Removing the arm facilitates easier transport. There are Carrying Rods (310120) available to take the arm out.



The two Carrying Rods differ in one thing: one comes with additional holders. This one is for the backside of the arm.



Take this one and mount it on the top side of the scissors-arm by turning the integrated knobs clockwise.



Attention

Make sure you do not confuse the two Carrying Rods. Otherwise the mechanical components are unnecessarily stressed.

TRANSPORT

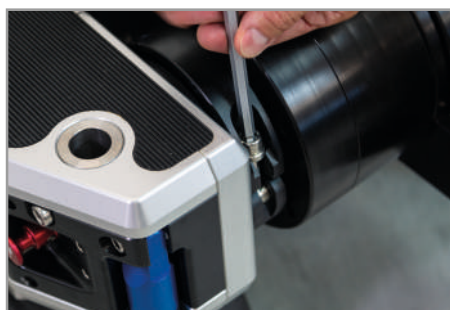
REMOVE THE SCISSORS-ARM



Pull the safety latch outwards.



Disconnect the red electricity knob by pulling it out.



Open the two screws on the left and right side of the scissors-arm (front side of the Dolly) with the integrated Allen Key.



Swing out the screws from the upper part of the holders by folding it sideways.



Open the holder on both sides of the arm.



Open the mechanical connection screw on the side of the Dolly with the integrated Allen Key.

TRANSPORT

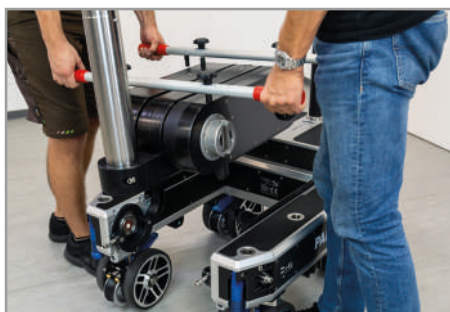
REMOVE THE SCISSORS-ARM



Mount the second Carrying Rod.



Now you need a second person. One person on each side of the Dolly. You can take out the arm now by lifting both sides simultaneously.



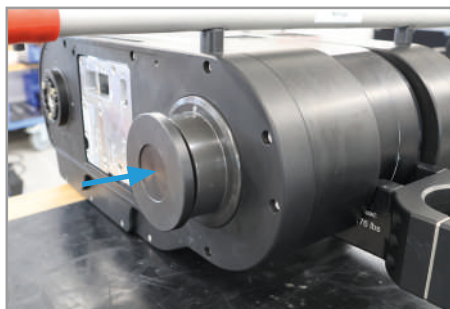
Remounting the Scissors-Arm is done by repeating all steps the other way:



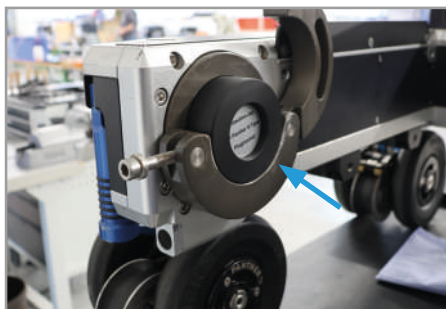
- Pull the Arm inside
- Tighten the mechanical connection screw
- Remove the Carrying Rod on the frontside
- Close the holders and tighten the screws
- Push back the red electricity knob
- Check if the safety latch is back on its place
- Remove the Carrying Rod on the backside

Protection Caps

We offer protection caps to protect the connection between the scissors and Dolly during transport.



Protection Cap Connection Scissors Arm
(311556)



Protection Cap Connection S-Type Dolly
(311558)

TRANSPORT

CARRYING THE DOLLY

Carrying the Dolly

The S-Type Dolly comes with integrated carrying bars, one on each corner of the Dolly (4 in total).



Carrying Grip

As an option there are Extensions (302783) for the carrying bars available.

They are used by plug & play: press the red knob and push it inside the hole of the integrated carrying bar.



Carrying Grip straight

We also offer straight Extensions (311745).



The extension can be used upwards and downwards which makes it very easy to carry the Dolly on stairs.



EMERGENCY OPERATION

MOVE THE SCISSORS-ARM MANUALLY

Manual Scissors-Arm movement

In some cases (for example if your batteries are down) it might be necessary to move the arm manually, without any electronic support.



Open the cover at the side of the Scissors-Arm by turning counterclockwise.



Now you can manually move the arm upwards and downwards by using the wrench.

Never use wrench when the S-Type Dolly is powered!

NOTES

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

FURTHER ASSISTANCE

If you need any further assistance with this instructions (or also other questions) please contact our service department.



SERVICE PHONE:
(+49) 8095 71230 - 05



SERVICE MAIL:
eric.suchetet@panther.tv

ADDRESS

Am Bahnhof 19
85653 Aying - Munich
Germany

PHONE / FAX

Phone:
(+49) 8095 71230 - 00

Fax:
(+49) 8095 71230 - 99

ONLINE

contact@panther.tv

www.panther.tv

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