



AS(O1)

AS(O1)RF

EN

manual wheelchairs

User manual Version 4.0



Record of product identification data

Enter your product’s identification data from the type label in the following lines so that it is available in case of any queries in connection with the product (see chapter 2.3). Identification data or type labels of custom-made devices may deviate.

TYP Model	
REF Article number	
SN Serial number	
 Date of manufacture	
Other information and notes	



Introduction

This product is a medical aid. Read this user manual before using your product. Please keep this user manual as long as you use the product and, if applicable, pass it on along with the product or store it for later reuse of the product. This helps avoid injuries and product damage. It will provide you with information on how to keep your product in safe working order and how to preserve its value.

Please contact your medical retailer for any additional healthcare information.

Please contact DIETZ in writing or by telephone for information or queries concerning product safety and in case of recalls. The current version of the user manual and additional information on your product are available on our website. You can find our contact information at the end of this user manual.



A large-print version of this user manual for visually impaired persons is available in PDF format at **www.shop.dietz-group.de**.



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1 Intended use

1.1 Intended purpose

The product is suitable for persons whose anatomy (body dimensions and weight) allows them to use the product as intended and whose epidermis (skin) is intact. The max. weight capacity can vary depending on the selected product variant and the accessories installed. This information is indicated in the technical specifications and on the type label affixed on the cross brace.

The intended purpose of products made and labelled as custom-made devices can differ. The documentation supplied with the product applies in such cases.

1.2 Target group

The target group comprises teenagers and adults with temporarily or permanently restricted mobility.

The standard configuration of the AS[01] has a permissible maximum user weight of 125 kg and the AS[01]RF of 150 kg.

The product must not be used by children or persons with a height less than 146 cm and / or a weight of less than 40 kg (BMI less than 17).

1.3 Environment of use

Das Produkt ist auf festem Untergrund im Innen- und Außenbereich einsetzbar. Es wird in Privathaushalten, im häuslichen und außerhäuslichen Umfeld, in Alten- und Pflegeheimen und Rehazentren verwendet.

Es ist zur Kompensierung von Beeinträchtigungen und Erkrankungen als Fortbewegungsmittel für den Kurz- und Langzeitgebrauch konzipiert.

Umgebungstemperatur: -10 °C bis +50 °C.

1.4 Storage conditions

Observe the following instructions for storing the product:

- Storage temperature: 0 °C to +45 °C
- Relative humidity: 20 % to 75 %
- Store the product in a place that is dry and protected from strong sunlight.
- Do not store the product close to any heat source.
- Do not store any other objects on top of the product.



- Store the product in its original box.
- Do not engage the parking brake during storage. Secure the product against any unintended rolling motion.
- After prolonged periods of storage (longer than 4 months), please check all inspection points on the product as listed in the maintenance schedule before using/reusing the product.

1.5 Service life

The product has an expected service life of 5 years when used daily and in line with the intended use. This requires compliance with the maintenance, cleaning, and safety instructions. The indicated service life does not constitute any additional warranty.

1.6 Indications

This product provides assistance for persons who are unable to walk or who have a severe walking impediment due to:

- Paralysis
- Loss of limbs
- Defects of limbs, deformation of limbs
- Joint contracture, joint damage (not on both arms)
- Other conditions

1.7 Contraindications

This product must not be used in case of:

- Perception impairments
- Severe balance impairments
- Loss of limbs on both arms
- Joint contracture, joint damage on both arms
- Inability to sit
- Reduced or insufficient vision



2 Safety

2.1 Layout of safety instructions

Any improper use, i.e. any use of the product other than the intended use, can be hazardous. Observe the safety instructions in this user manual. They are identified as follows:

⚠ WARNING

▷ Designates a medium risk of severe injuries.

⚠ CAUTION

▷ Designates a low risk of minor injuries.

NOTICE

▷ Designates a risk of potential property damage.

INFO

Provides tips and suggestions.

2.2 Safety instructions

When using the product, observe the following safety instructions to prevent falls, hazardous situations, and damage to the product.



▲ WARNING

Risk of injury

- ▷ Observe the safety instructions.
- ▷ Carefully read the user manual before using the product.
- ▷ If your product is a custom-made device (refer to product labelling), the additional documentation provided, including all safety instructions, must be observed in addition to the current user manual.
- ▷ Use the product for its intended purpose only. Do not let the wheelchair collide with obstacles (such as steps or edges) and do not jump down from them.
- ▷ Practice riding on level and open terrain when using the wheelchair for the first time. Extensively familiarise yourself with the braking and acceleration characteristics when going straight ahead and through bends. DIETZ recommends having an accompanying person while using the product for the first time.
- ▷ The product is not suitable for children. Do not give unsupervised children access to the product.
- ▷ Always lock both brakes before sitting down or getting up from the wheelchair.
- ▷ According to the German Road Traffic Act (StVO), the provisions for pedestrians apply to riders of manual wheelchairs.
- ▷ DIETZ recommends wearing bright, noticeable clothing to improve your own visibility.
- ▷ Do not use the wheelchair while under the influence of alcohol or other substances that may have adverse effects on your attentiveness as well as your physical and mental receptiveness.
- ▷ Do not expose the product to direct sunlight, heat sources, or low temperatures for prolonged periods of time as this could cause parts of the product (e.g. Frame, legrests, breaks, and lateral frame elements) to become very hot (more than 41 °C) or cold (less than 0 °C). This may cause injuries to the skin.
- ▷ All removable parts such as legrests, armrests, lateral frame elements, or therapy trays are associated with a risk of injury when dropped.
- ▷ All moving parts (brakes, legrests, etc.) are associated with a risk of crushing fingers or other body parts.
- ▷ Make sure that the wheelchair is not parked in the immediate vicinity of emergency exits or escape routes so as not to block them.
- ▷ Never exceed the maximum load resulting from the combined user weight and the weight of any transported items. This may cause injuries and damage to the wheelchair.



⚠ WARNING

Risk of burns

- ▷ Keep the product away from ignition sources to avoid fire and damage.

⚠ WARNING

Risk of falling

- ▷ Do not use the wheelchair to transport multiple persons or heavy loads.
- ▷ Shifts in balance caused by body movements or loads can increase the risk of tipping the wheelchair over. Extreme adjustments of the wheelchair increase this risk.
- ▷ Navigating slopes of more than 10 ° is associated with an increased risk of tipping over to the front or back. DIETZ recommends the use of anti-tip wheels.
- ▷ Use anti-tip wheels on wheelchairs with configurations that have a tendency to tip over on slopes with inclinations below 10 °. They must be properly installed.
- ▷ To pass obstacles, please use ramps whenever possible or have an accompanying person help you.
- ▷ Cross ruts, rails, or similar obstacles at right angles (90 °).
- ▷ When installing accessories (such as electric drives), the maximum additional load must not be exceeded.
- ▷ Do not use escalators as this may lead to severe injuries in case of falls.

⚠ CAUTION

Risk of injury

- ▷ In case of any redness or irritation of the skin associated with using the product, seek medical advice immediately.
- ▷ The manufacturer and the competent authority must be informed of any serious events (according to MDR) linked to the product.

2.3 Product labelling

Type and warning labels on the product must remain legible. Illegible or missing labels must be replaced by a medical retailer. The serial number that unambiguously identifies a product is indicated on the type label affixed on the underside of the seat surface. The type label must not be removed.

Products that carry any of the labels below are custom-made devices.

SONDERANFERTIGUNG
CUSTOM-MADE DEVICE

Custom-made devices that have been made specifically for a particular user have different type labels and, where required, different intended purposes and warnings. The additional documentation must be observed.



For reuse on an individual patient.



Unique patient number (corresponds to the product serial number)

Hereafter, the symbols and information on the type label are explained in detail. The depicted type label serves as an example.

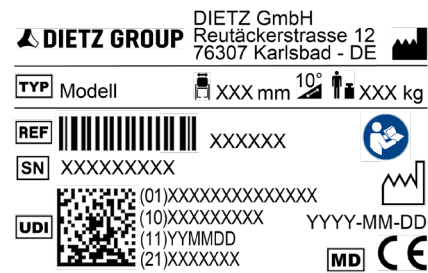


Fig. 1



	Crash-tested according to ISO 7176-19, marks the attachment points for the restraint system.
	Approved for passenger transportation in motor vehicles according to ISO 7176-19.
TYP	TYP = Model
REF	REF = Article number
SN	SN = Serial number
UDI	UDI = Unique Device Identifier (01) UDI-DI / GTIN (10) Batch number (11) Date of manufacture (YYMMDD) (21) Serial number
	Manufacturer
	Maximum load capacity incl. additional loads
	Date of manufacture (YYYY-MM-DD)
	Maximum slope that can be safely negotiated with the product.
	Observe the user manual
MD	Medical device
CE	The product conforms to Regulation (EU) 2017/745 on medical devices.



3 Product description

3.1 Scope of delivery

⚠ WARNING

Risk of poisoning

- ▷ Do not burn the packaging films.

⚠ WARNING

Risk of suffocation

- ▷ Keep plastic bags out of reach of children.

INFO

The product features described and the scope of delivery may vary in specific countries and markets depending on the individual indication and pathology.

The product is supplied in a fully assembled state and packed in a cardboard box. Keep the packaging as it can be used to store the product later. Check the contents for completeness and proper condition. Inform the supplier in case the contents are incomplete or damaged.

The scope of supply includes the selected configuration of the adaptive wheelchair and the following items:

- Packaging
- User manual
- Legrests (pair; only for AS[01])
- Optional accessories (if selected)

3.2 Optional accessories

- ADI backrest with quick lock
- Amputee leg support
- Anti-tip wheels
- Armrest, adjustable
- Tilting aid
- Lap belt
- Brake lever extension



- Swivel legrest
- One-handed brake
- One-handed operation
- Separate footplates, aluminium
- Joined footplates, aluminium
- Hemi armrests
- Push rims
- Wheelbase extension
- Backrest with preset fixed angle
- Push handles, height-adjustable
- Clothing guard, swivelling
- Clothing guard, fixed with armrest
- Cane holder
- Drive wheel camber angle (0 °, 3 °)
- Therapy tray
- Drum brake
- Vicair Active 02 (anti-decubitus cushion)

3.3 Design of the product

INFO

This user manual may contain depictions and descriptions of components not included in the actual scope of delivery.

3.3.1 Design of AS[01]

The overview shows the most important components as an example for all AS[01] variants.

1. Push handles
2. Push rims
3. Drive wheel adapter plate
4. Quick-release axle
5. Parking brake
6. Drive wheel



7. Castor arm
8. Swivelling wheel
9. Separate footplate
10. Removable legrest
11. Clothing guard with fender

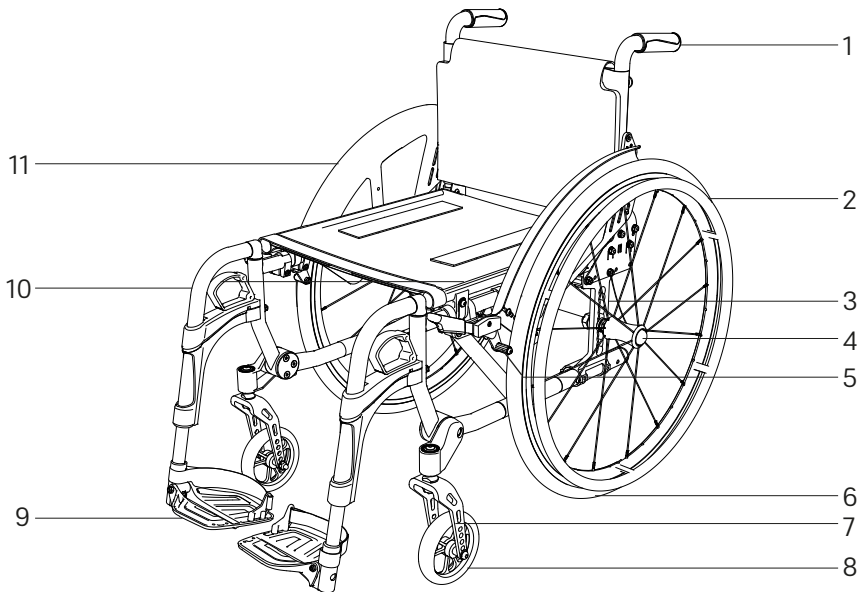


Fig. 2

3.3.2 Design of AS[01]RF

The overview shows the most important components as an example for all AS[01] variants.

1. Push handles
2. Push rims
3. Drive wheel adapter plate
4. Quick-release axle
5. Parking brake
6. Drive wheel



- 7. Castor arm
- 8. Swivelling wheel
- 9. Joined footplate
- 10. Fixed legrest
- 11. Clothing guard with fender

EN

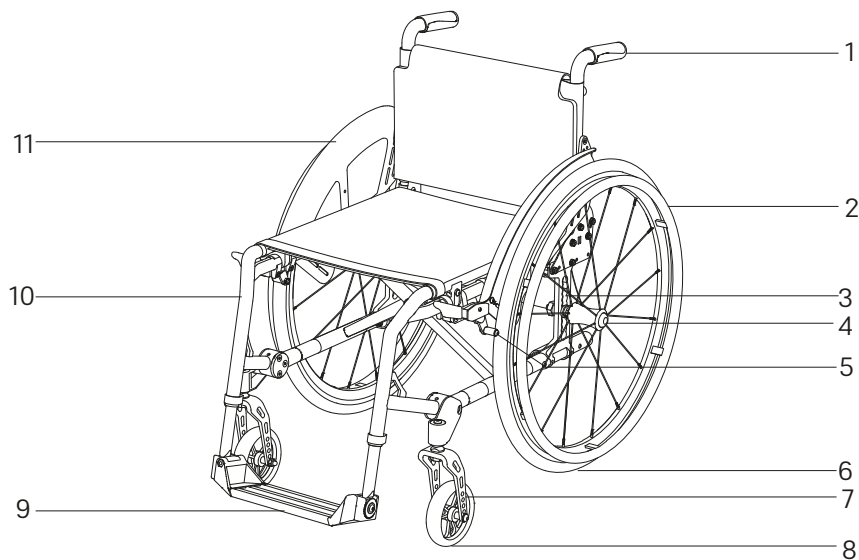


Fig. 3



4 Preparing the product for use

4.1 Setup information

▲ WARNING

Risk of crushing

▷ Mind your hands when folding the product.

INFO

Assembly and functional checks are performed by the medical retailer. Qualified medical retail employees adjust the product to each individual user.

Unfold the wheelchair before using it for the first time and click the removable legrests into place.

This chapter contains information on how to set up the wheelchair for use.

Users can adjust the wheelchair using no-tool adjustment options such as quick-release mechanisms or levers. The medical retailer will perform any complex adjustment work requiring tools. Any subsequent work may only be performed by medical retail employees.

4.2 Unfolding the wheelchair

▲ WARNING

Risk of crushing

▷ Moving parts are associated with a risk of crushing.

1. Simultaneously push the left and right seat tube (1) down with your hands until the wheelchair is fully unfolded.
2. Ensure that both seat tubes are firmly positioned in the supports intended for this purpose.
3. Position the backrest cover and close the hook and loop fastener in the rear of the lower backrest (2).

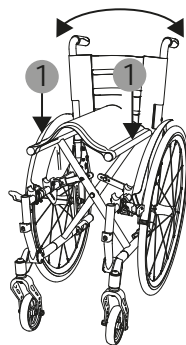


Fig. 4



4.3 Folding the wheelchair

1. Open the hook and loop fastener at the lower end of the backrest pad below the seat surface **(1)**.

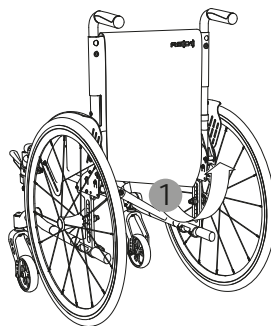


Fig. 5

INFO

The backrest pad can remain in place on the wheelchair and does not need to be removed entirely.

2. Pull the seat pad up by its centre front and rear ends **(2)** until the wheelchair is folded.

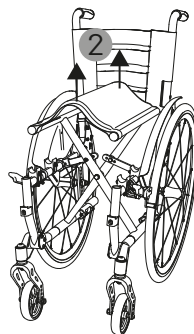


Fig. 6

4.4 Attaching the legrests

The same procedure applies to attaching all variants; the figure shows an example.



⚠ WARNING

Risk of accidents

▷ Before making any changes to the legrests, secure the wheelchair against any unintended rolling motion. Engage the parking brake.

1. Hold the legrest laterally at a 90 ° angle and insert it into the provided support in the frame from above **(1)**.
2. Swivel the legrest forward in the direction of travel.
→ The legrest audibly clicks into place in the end position **(2)**.

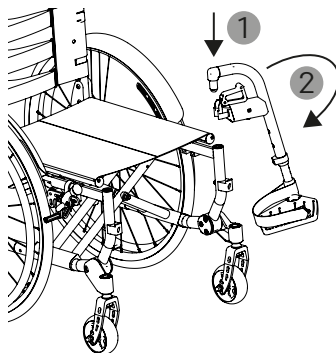


Fig. 7

4.5 Swivelling footplates up and down

⚠ CAUTION

Risk of crushing

▷ Mind your hands when swivelling the footplates down.

DIETZ offers separate and joined footplates.

1. Push the footplates (separate **(1)** or joined **(2)**) into the correct position.
→ The footplates audibly click into place.

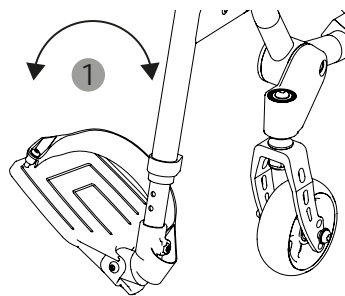


Fig. 8



2. You can swivel the joined footplate up or down on the left or right side, depending on the mounting side **(2)**.

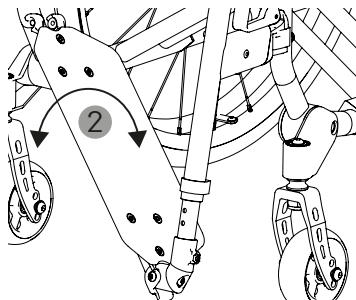


Fig. 9

4.6 Adjusting the swivel legrest (optional) angle

⚠ WARNING

Risk of crushing

- ▷ Moving parts are associated with a risk of crushing.

⚠ WARNING

Risk of tipping

- ▷ Do not stand on the footplates. They are not designed to carry the full weight of a person.
1. The legrest can be adjusted at an angle of 175 ° to 110 °.
 2. Push the pneumatic spring release lever forward **(1)**. The knee angle increases **(2)** while the release lever is held in the forward position.
 3. To set the desired angle, let go of the release lever.

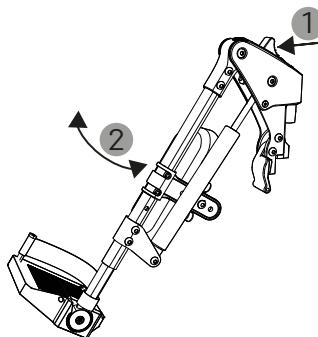


Fig. 10



4. The purpose of the lines **(3)** is to provide orientation when setting the angle.
5. To reduce the knee angle, push the release lever forward **(1)** and push the legrest downward **(2)** simultaneously.

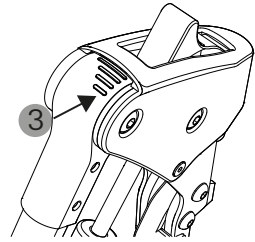


Fig. 11

4.7 Adjusting the backrest upholstery

INFO

Ensure proper backrest upholstery adjustment.

The seat cushion and the backrest cover are attached with hook and loop fasteners.

1. Remove the seat cushion and the cushioned backrest cover.
→ The hook and loop fastener straps on the rear of the backrest are easily accessible for adjustment purposes.
2. Loosen the hook and loop fastener straps **(1)** and adjust their length **(2)** to achieve a comfortable sitting position.
3. Place the cover over the backrest upholstery and press the hook and loop fasteners into place.
4. Position the seat cushion.

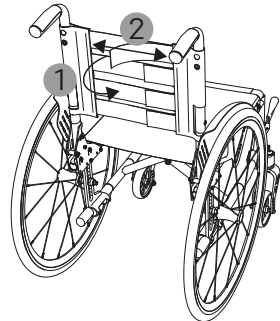


Fig. 12



4.8 Adjusting the seat depth

1. Detach the hook and loop fastener strap from the lower front part of the seat pad **(1)**.
2. Detach the strap from the lateral tubes.
3. Fold the strap under the seat surface towards the back.

→ This causes a seat depth reduction of 30 mm.

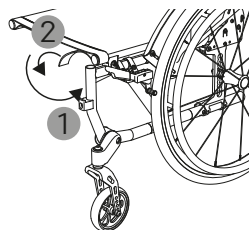


Fig. 13

4.9 ADI backrest shell (optional)

The ADI backrest shell is made of aluminium and increases the seat stability. The backrest shell is lightweight and does not have any impact on the wheelchair's handling characteristics.

To fold the wheelchair, you need to remove the ADI backrest shell.

The supplier documentation provided with the product contains a more detailed description.

4.10 Attaching the utensil pouch

You can attach the utensil pouch at various positions along the seat upholstery in the front.

1. Thread the loop straps **(1)** of the utensil pouch through the upholstery at the desired position. The hook side must face the wheelchair.

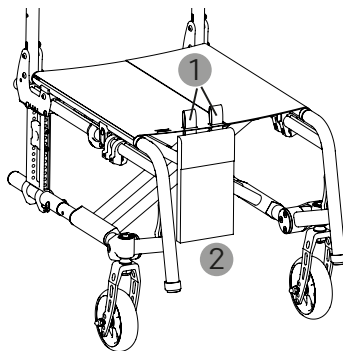


Fig. 14



2. You can suspend the pouch from the seat upholstery **(2)** or attach it to the loop side of the fastener **(3)** towards the rear.
3. To attach it to the loop side, press the hook straps against it.

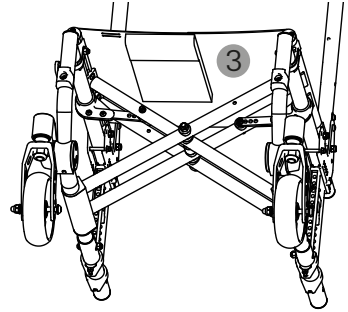


Fig. 15



5 Using the product

5.1 Sitting down, getting up, and lateral transfer

⚠ WARNING

Risk of falling

- ▷ First engage the parking brake.

⚠ WARNING

Risk of tipping

- ▷ Do not stand on the footplates. They are not designed to carry the full weight of a person.
- ▷ To increase the stability, swivel the swivelling wheels to the front.

INFO

To perform a lateral transfer in cases where swivelling side guards are installed, swivel them to the rear or remove them, respectively.

Various pathologies or impairments are associated with reduced mobility or manoeuvring ability. Therefore, procedures for sitting down, getting up, and lateral transfer vary for each user.

DIETZ recommends asking therapeutic personnel or a medical retail employee to show you the best way to sit down, stand up, and perform a lateral transfer.

You can use the seat surface and the lateral frame elements for support as you get into the wheelchair.

If you need help sitting down, getting up performing a lateral transfer, ask an accompanying person to help you.

5.2 Riding and breaking the wheelchair using the push rims

⚠ WARNING

Risk of crushing

- ▷ When riding the wheelchair, do not reach between the spokes or between the drive wheels and the parking brake.
- ▷ Make sure not to touch the tyre with your thumb as you propel the wheelchair.



⚠ WARNING

Risk of burns

- ▷ The push rims can heat up significantly during extended braking manoeuvres. Wear suitable gloves.

⚠ WARNING

Risk of falling

- ▷ Do not use the parking brake while the wheelchair is in motion.

INFO

Practice riding on level and open terrain when using the wheelchair for the first time. Extensively familiarise yourself with the braking and acceleration characteristics when going straight ahead and through bends. Take the help of an accompanying person as you do so.

You can move the wheelchair forward, backward, to the right, and to the left using the two push rims on the drive wheels.

1. Place your hand on the push rim with your thumb pointing in the direction of travel. Grip the push rim with your other fingers so that your hand forms a fist.
2. To propel the wheelchair forward or backward, push the push rim forward or backward with your hands.
3. To brake, grip the push rims more firmly with both hands at the same time until the wheelchair comes to a standstill.
4. To steer in one direction, propel the wheelchair using the push rim on the opposite side of where you want to go.
5. To turn on the spot, push one hand forward and the other hand backward simultaneously.

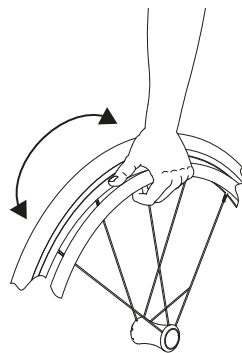


Fig. 16

5.3 Passing obstacles

⚠ WARNING

Risk of tipping

- ▷ Ride down slopes, steps, and curbs at reduced speed only and make sure to brake.
- ▷ Do not ride up or down slopes diagonally.



⚠ WARNING

Risk of accidents

- ▷ You must take the help of an accompanying person to go up or down stairs. Use access ramps or lifts where available. If there is no accessible option for passing obstacles, take the help of accompanying persons.

⚠ WARNING

Risk of accidents

- ▷ Lift the wheelchair by firmly installed components (frame) only, and not by any bolted or removable components.

INFO

The stability on slopes depends on the wheelchair's configuration, the user's skills, and the driving style. A maximum safe gradient angle cannot be determined as the skills of different users and their riding styles vary. To prevent tipping over, the maximum angle is to be determined by the user with the help of an accompanying person. For inexperienced users, DIETZ recommends installing anti-tip wheels.

Before riding up or down slopes, steps, or curbs in your wheelchair on your own, practise with an accompanying person. There is an increased risk of tipping in such riding situations. DIETZ recommends using anti-tip wheels.

5.3.1 Passing obstacles without the help of an accompanying person

- The brake force in such situations is significantly lower than on level ground. Potholes, wet conditions, snow, grit, and dirt can also cause the wheelchair to tip over.
- Shift the weight of your upper body **far forward (1, 2)** when riding up **slopes**, steps, or curbs.
- Shift the weight of your upper body **far far backward (3, 4)** when riding down **slopes**, steps, or curbs.

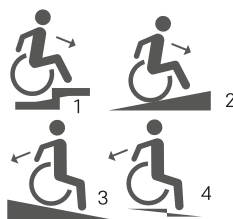


Fig. 17

5.3.2 Passing obstacles with the help of an accompanying person

To tilt the wheelchair in order to pass smaller obstacles, firmly grip the push handles and ride over the obstacle using the tilting aid.



2 accompanying persons are required in case the wheelchair needs to be carried while the user is seated in it:

1. First fold in the anti-tip wheel.
2. Carry the wheelchair by the side frame and the rear wheel adapter.
3. Unfold the anti-tip wheel again.

5.4 Swivelling or removing the legrests

⚠ WARNING

Risk of accidents

- ▷ Before making any changes to the legrests, secure the wheelchair against any unintended rolling motion. Engage the parking brake.

⚠ WARNING

Risk of crushing

- ▷ Moving parts are associated with a risk of crushing.

5.4.1 Swivelling legrest

5.4.2 Amputee leg support (optional)

1. To release the locking mechanism, pull the release lever **(1)** forward.
2. Swivel the legrest to the side **(2)**.
3. Pull up and remove the legrest.

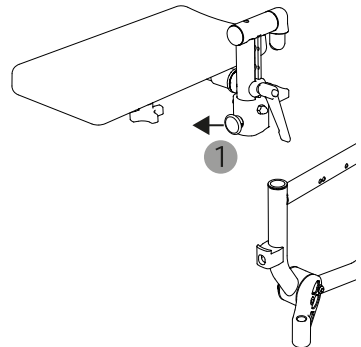


Fig. 18



5.4.3 Swivel legrest (optional)

1. To release the locking mechanism, pull the release lever **(1)** forward.
2. Swivel the legrest to the side **(2)**.
3. Pull up and remove the legrest.

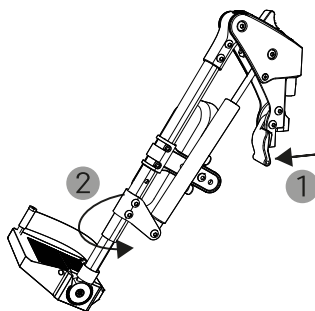


Fig. 19

5.5 Removing and installing the drive wheels

⚠ WARNING

Risk of accidents

- ▷ Check the wheels for correct adjustment after each reinstallation. The quick-release axles must be firmly locked in the wheel suspension.

⚠ WARNING

Risk of tipping

- ▷ Users must not be seated in the wheelchair during installation.

⚠ WARNING

Risk of crushing

- ▷ Moving parts are associated with a risk of crushing.

⚠ CAUTION

Risk of tipping

- ▷ Position the wheelchair on a level, firm surface and secure it against any unintended rolling motion and tipping over.

INFO

Press and hold the locking button while installing the wheels. This facilitates the quick-release axle insertion.



1. To remove, press the locking button in the centre of the wheel hub.
→ The drive wheel **(1)** locking mechanism disengages.
2. Pull off the drive wheel in and outward motion **(2)**.
3. For reinstallation, push the quick-release axle into the quick-release axle support while pressing the locking button **(2)**.

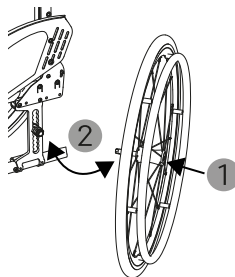


Fig. 20

5.6 One-handed operation

⚠ WARNING

Risk of crushing

- ▷ Moving parts are associated with a risk of crushing.

In case an impairment limits your ability to propel one side of the wheelchair, one-handed operation will help you.

1. To ride straight ahead, push both push rims simultaneously **(1, 2)**.
2. To navigate bends or to turn, use the larger push rim **(1)** to control the active side and the smaller one **(2)** for the passive side.

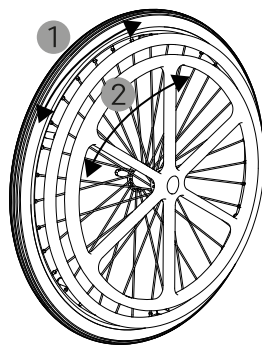


Fig. 21



Folding or unfolding the wheelchair with one-handed operation

Remove the connecting rod before folding:

1. Push the connecting rod together towards the centre **(3)** and pull it out of the quick-release axle supports **(4)**.
2. Store the connecting rod in a safe location until it is used again.
3. If you want to convert the wheelchair to one-handed operation again, start by unfolding the wheelchair. Re-insert the connecting rod between the quick-release axles.

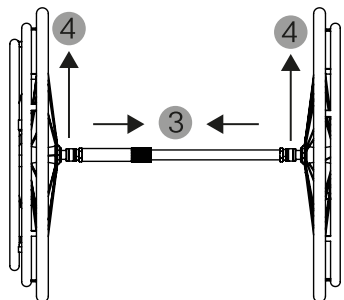


Fig. 22

5.7 Parking the wheelchair using the parking brake

⚠ WARNING

Risk of falling

- ▷ Brake the wheelchair with your hands on the push rims and **not** with the parking brake whenever you ride it.
- ▷ For parking, make sure to always engage the brakes on both sides.

⚠ WARNING

Risk of accidents

- ▷ When using pneumatic tyres (optional), make sure that the tyres are properly inflated. Insufficient tyre pressure reduces the parking brakes' effectiveness.

⚠ WARNING

Risk of crushing

- ▷ Moving parts are associated with a risk of crushing.

Engage the parking brakes to secure the wheelchair against any unintended rolling motion:



Push-to-lock brake

1. Push the lever down to activate the parking brake **(1)**.
→ The brake engages in this position.
2. Pull the lever up to release the brake **(2)**.

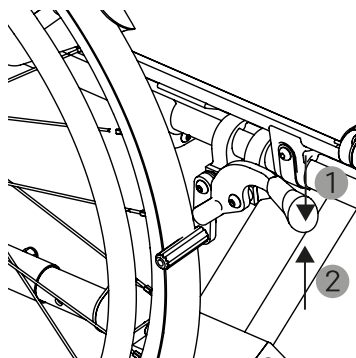


Fig. 23

Pull-to-lock brake

1. Pull the lever up to activate the parking brake **(3)**.
→ The brake engages in this position.
2. Push the lever down to release the brake **(4)**.

These steps are also applicable when the brake lever extension is fitted or when the wheelchair is converted to one-handed operation.

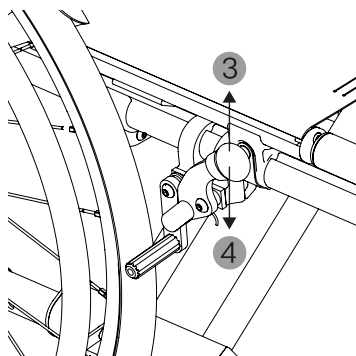


Fig. 24

5.8 Brake lever extension (optional)

The extended lever lowers the force required to operate the brake.

To facilitate getting into the wheelchair, you can fold down the brake lever extension:



1. Pull up the brake lever extension handle **(1)**.
2. Fold down the lever **(2)**.

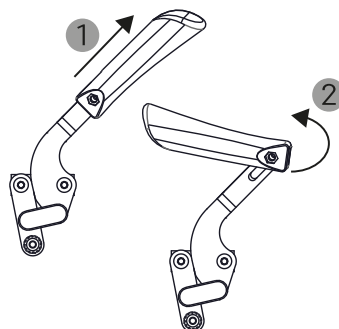


Fig. 25

5.9 Brake for accompanying person (optional)

⚠ WARNING

Risk of accidents

- ▷ For safe parking, engage the parking brakes on both sides.

⚠ WARNING

Risk of crushing

- ▷ Moving parts are associated with a risk of crushing.

INFO

Apply the same amount of braking force on both sides. Otherwise the wheelchair will pull to one side and become difficult to manoeuvre.



1. As an accompanying person, brake the wheelchair in a controlled manner by pulling up the brake lever **(1)**.
2. To park the wheelchair, you can lock the brake lever.
3. To do so, pull up the smaller locking lever as well **(2)**.
→ The lever will engage at the maximum position.
4. To release the lock, pull up the brake lever.

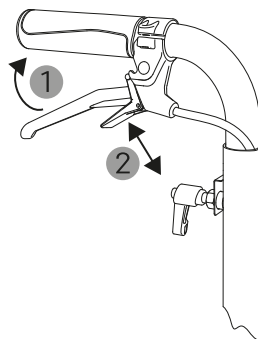


Fig. 26

5.10 Parking brake for one-handed operation (optional)

⚠ WARNING

Risk of crushing

▷ Moving parts are associated with a risk of crushing.

In case an impairment limits your ability to brake the wheelchair on one side, the one-handed parking brake will help you do so.

1. Push the lever forward to activate the one-handed brake **(1)**.
→ The brake engages in this position.
2. Pull the lever back to release the one-handed brake **(1)**.
3. To fold the brake lever extension, pull it up **(2)** and fold it back **(3)**.

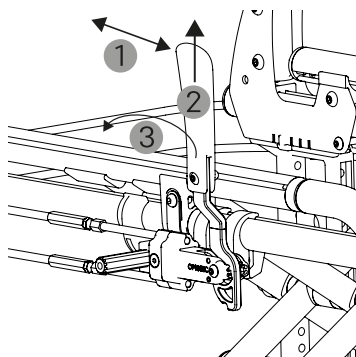


Fig. 27



5.11 Loading the wheelchair

⚠ WARNING

Risk of accidents

- ▷ Suspending loads increases the risk of tipping. DIETZ recommends the use of anti-tip wheels.
- ▷ They facilitate suspending additional loads (e.g. Backpacks) with a weight of up to 5 kg from the push handles.
- ▷ The max. load capacity must not be exceeded.

EN

5.12 Removing and attaching seat cushions

⚠ WARNING

Risk of burns

- ▷ The seat cushion is flame-retardant. Keep the wheelchair away from ignition sources to avoid fire and damage.

INFO

Ensure proper seat cushion adjustment.

The seat cushion is firmly held in place by a hook and loop fastener. It can be removed if necessary.

1. To remove the seat cushion, open its hook and loop fastener.
2. To secure the seat cushion, position it and press it onto the hook and loop fastener.

5.13 Height-adjustable push handles (optional)

⚠ WARNING

Risk of accidents

- ▷ The wheelchair must not be carried by the push handles when the user is seated. The push handles are not designed for this. To pass obstacles with the help of an accompanying person, see (see chapter 5.3.2).

⚠ WARNING

Risk of crushing

- ▷ Moving parts are associated with a risk of crushing.



INFO

Both push handles must be set to the same height.

1. Loosen the clamping lever screw by 1 to 2 turns **(1)**.
2. Adjust the push handle to the desired height **(2)**.
3. Firmly tighten the clamping lever screw again **(1)**.

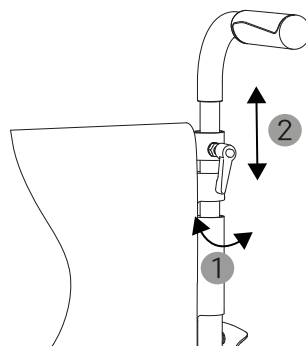


Fig. 28

5.14 Lateral frame elements

⚠ WARNING

Risk of crushing

- ▷ Mind your hands and fingers when moving the side guards.

⚠ WARNING

Risk of accidents

- ▷ The wheelchair must not be carried by the lateral frame elements. The lateral frame elements are not designed for this.

The purpose of the side guards is to protect the user's clothes from soiling. Different variants of side guards are available. In the standard variant, the clothing guard is installed permanently.

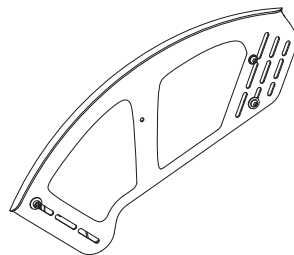


Fig. 29



5.14.1 Fixed clothing guard with armrests (optional)

⚠ WARNING

Risk of accidents

- ▷ The wheelchair must not be carried by the armrests. The armrests are not designed for this.

Optional clothing guards with armrests are available.
The armrests support the user's forearms.

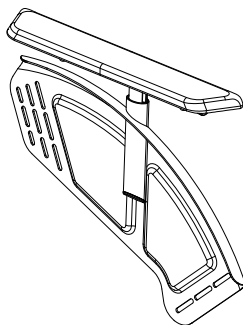


Fig. 30

5.14.2 Swivelling clothing guard (optional)

Swivelling the clothing guard:

1. To release the lock, pull up the locking lever **(1)**.
2. Swivel the clothing guard back/up **(2)**.
3. Pull the clothing guard down to the initial position again.
→ The locking lever audibly clicks into place.

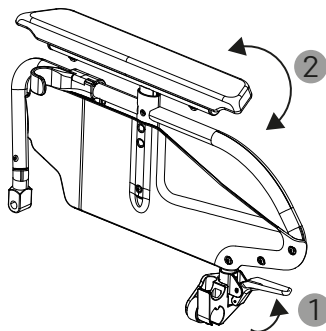


Fig. 31



5.15 HEMI armrests (optional)

⚠ WARNING

Risk of crushing

- ▷ Moving parts are associated with a risk of crushing.

The forearm support system is particularly suitable for persons with hemiplegia or hemiparesis. It is used to support the forearms and is permanently attached to the wheelchair.

The attachment unit can be swivelled:

1. Pull the retaining pin down **(1)** and slightly twist it.
 2. Move the forearm support to the desired position **(2)**.
 3. Pull the retaining pin down again **(1)** and slightly twist it. The protrusions on the retaining pin must engage with the notches.
- The forearm support clicks into place.

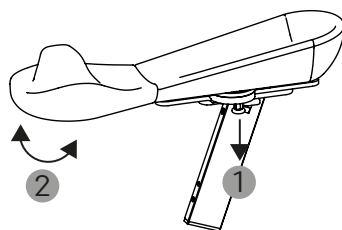


Fig. 32

5.16 Anti-tip wheel (optional)

⚠ WARNING

Risk of accidents

- ▷ Do not operate the wheelchair outside the intended operating environment and adhere to the specified adjustments. Ride the wheelchair as appropriate in any given situation. Only then will the anti-tip wheel provide sufficient protection against tipping over.
- ▷ Ensure that the anti-tip wheel is activated before passing any obstacles.
- ▷ DIETZ recommends using an anti-tip wheel to inexperienced users and transfemoral amputees.

⚠ WARNING

Risk of crushing

- ▷ Moving parts are associated with a risk of crushing.

The anti-tip wheel prevents the wheelchair from tipping over backwards when negotiating obstacles and slopes. It is installed with a ground clearance of 30 to 50 mm.

The anti-tip wheel can be activated and deactivated by the user while seated.



The anti-tip wheel remains activated when going up a high curb or step. The anti-tip wheel then makes contact with the floor. To go down a high curb or step, the anti-tip wheel must be deactivated to prevent it from sustaining damage. Once the obstacle has been passed, the anti-tip wheel must be activated again.

Deactivating the anti-tip wheel:

1. Press the anti-tip wheel down by hand **(1)**.
2. Swivel the anti-tip wheel inward **(2)**.

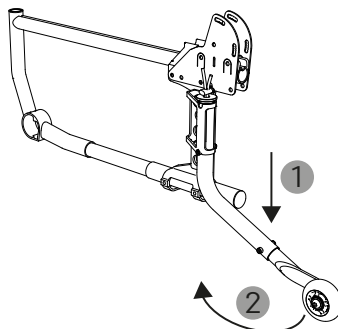


Fig. 33

Activating the anti-tip wheel:

1. To activate the anti-tip wheel, push down the tube **(3)**.
2. Swivel the anti-tip wheel back **(4)**.

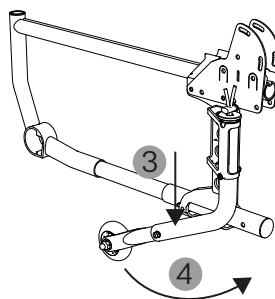


Fig. 34

5.17 Tilting aid (optional)

The tilting aid allows an accompanying person to tilt the wheelchair when passing obstacles.



1. Remove the end cap from the frame.
2. Push the tilting aid into the frame (1).
→ The pin audibly engages (2).
3. If an anti-tip wheel is installed, swivel it inward.
4. Before passing an obstacle, step on the tilting aid (3) with your foot.
5. Slightly tilt the wheelchair by simultaneously pressing down both push handles.

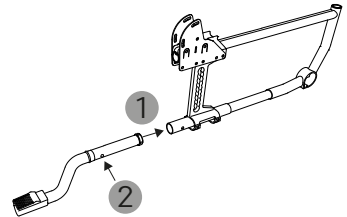


Fig. 35

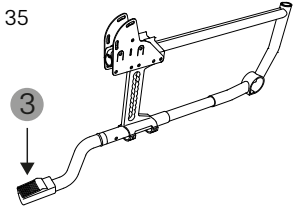


Fig. 36

5.18 Lap belt (optional)

⚠ CAUTION

Distorted posture or discomfort

- ▷ The lap belt is adjusted by a trained medical retail employee. Retain this adjustment.

The lap belt secures the user and serves as a positioning aid. The lap belt is not a replacement for the seat belts to be used during transport in a motor vehicle.

The lap belt is properly adjusted when two fingers fit between belt and thigh.

Have the lap belt adjusted in case of any changes, e.g. progression of the user's condition or changes in the user's weight.

The lap belt should be at an angle of approx. 60° to the seat. The belt strap should be positioned across the thigh in front of the pelvic bones.



1. To fasten the lap belt, open the belt latch.
2. Assume an upright sitting position and rest your back against the backrest cushion (if possible).
3. Close the belt latch.

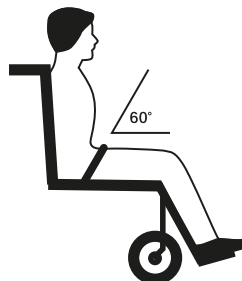


Fig. 37

5.19 Therapy tray (optional)

⚠ WARNING

Risk of falling

- ▷ The therapy tray must not be used to lift the wheelchair.

⚠ WARNING

Risk of crushing

- ▷ Make sure not to injure the user by crushing when inserting the full therapy tray.

⚠ WARNING

Risk of crushing

- ▷ Moving parts are associated with a risk of crushing.

⚠ WARNING

Risk of burns

- ▷ Do not place any hot objects on the therapy tray.



⚠ CAUTION

Risk of accidents

- ▷ Before moving the wheelchair or therapy tray, remove any loose objects or containers holding liquids.
- ▷ Do not place any objects weighing more than 2 kg on the outer side of the half therapy tray.

NOTICE

Property damage

- ▷ Do not use any aggressive or abrasive cleaning agents to clean the therapy tray. This can cause its surface to become cloudy or scratched.
- ▷ Do not load the therapy tray with heavy objects. Persons must not sit on or lean against the therapy tray.

The installation of a half therapy tray requires an installed clothing guard with integrated armrest.

Therapy trays are commonly used to place all kinds of objects during meals, work, and leisure activities. The therapy tray is transparent so as to allow users to check their leg position and correct their posture.

5.19.1 Full therapy tray

1. You can simply slide the therapy tray adapted to your wheelchair over the armrests to use it.
2. To remove the therapy tray, pull it off again and store it in a suitable location.



Fig. 38



5.19.2 Half therapy tray

1. Fold the assembled therapy tray inward **(1)**.
2. The hinge **(2)** must be firmly engaged with the armrest edge **(3)** and it must not be possible to move it.
3. Fold the therapy tray outward again **(1)** once you are done using it.

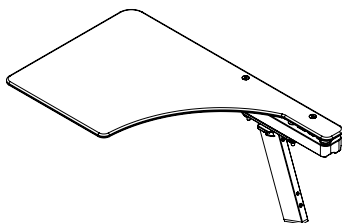


Fig. 39

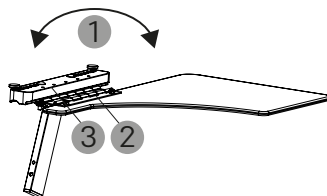


Fig. 40

5.20 Transport

▲ WARNING

Risk of crushing

- ▷ Mind your fingers when folding and setting up the product, and only handle the parts required to do so.

NOTICE

Property damage

- ▷ Do not place any heavy objects on the folded product or its cardboard box.

Before travelling, check with the airline or railway company whether packing dimensions comply with their terms of transport. Refer to the technical specifications for the folded dimensions and the overall width of your product.

You can conveniently fold the wheelchair without any tools for transport by car, plane, and train, or to reduce its footprint in other situations. The folded wheelchair has a very small footprint and is easy to store. It can also be taken apart into portable elements if required. The wheelchairs are generally in line with the basic technical requirements imposed on transportable wheelchairs by railway companies. However, please note that your wheelchair may exceed the recommended overall dimension of 700 mm depending on its configuration.



5.20.1 Transporting the wheelchair without a user

1. If necessary, remove components that can be easily detached from the wheelchair before transport (e.g. table, walking aids, cushions, legrests, drive wheels, etc.).
2. Fold the wheelchair for transport.
3. Lift the wheelchair by the side frame and the push handles.
4. You may transport the wheelchair in an upright position or on its side.
5. When transporting the wheelchair with its drive wheels in an upright position, engage the parking brakes.
6. Secure the wheelchair against any unintended movement during transport.

5.20.2 Using the wheelchair as a passenger car seat

⚠ WARNING

Risk of accidents

- ▷ Note the information in this chapter. There is a risk of severe injuries.
- ▷ Consult the transport company to make sure that the vehicle is designed, insured, and equipped for transporting a person in a wheelchair.
- ▷ Prior to transporting the product in a passenger car, remove any removable components and securely stow them in the vehicle in order to prevent injuries and damage to the wheelchair.

Wheelchairs are not designed to serve as passenger car seats and, no matter how securely the wheelchair is attached to the corresponding vehicle, do not provide the level of security a regular car seat does.

DIETZ recommends using a regular car seat.

This product is compliant with ISO 7176-19 and is suitable for use as a seat in passenger cars. The product is labelled according to ISO 7176-19.

Testing has been carried out using a H3 50 % dummy (78 kg) and a headrest.

Passenger cars transporting wheelchair users while seated in a wheelchair must have wheelchair spaces in accordance with the German Road Traffic Licensing Regulations (StVZO).

Each wheelchair space must be fitted with a wheelchair tiedown system and a wheelchair user restraint system. The vehicle must provide tiedown and restraint systems that conform to ISO 10542 and ensure proper use.



Fig. 41



5.20.3 Connecting the wheelchair tiedown system

⚠ WARNING

Risk of accidents

- ▷ The wheelchair has been tested in the direction of travel according to ISO 7176-19 / ISO 10542. Users must not sit facing either side or the rear.

To secure the wheelchair, only use a four-point strap-type tiedown, which has been certified according to ISO 10542 and designed for the total weight of the wheelchair.

Symbols on the wheelchair mark the 4 tiedown points, please refer to the example in the figure below. Number 1 indicates the front tiedown point, number 2 indicates the rear tiedown point. Use all 4 tiedown points and position the wheelchair in the direction of travel according to ISO 10542 (WTORS).

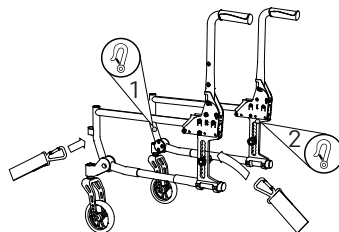


Fig. 42

The wheelchair must not be secured using other points (e.g. anti-tip devices, wheel spokes, armrests). Do not modify the transport tiedown points of the wheelchair in any way without prior approval by DIETZ.

Install the wheelchair tiedown system in the vehicle in line with the manufacturer's instructions.

5.20.4 Wheelchair user restraint system

⚠ WARNING

Risk of accidents

- ▷ Safely transporting a person seated in a wheelchair in a motor vehicle requires precise adjustments of the tiedown point or restraint system geometry as well as any belts restraining the user.

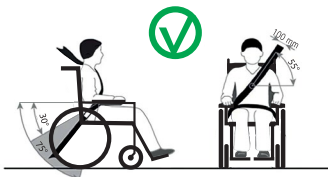


Fig. 43



Fig. 44



Befestige zuerst das Rollstuhl-Rückhaltesystem. Sichere Rollstuhlnutzende gemäß ISO 10542 durch ein entsprechendes Rückhaltesystem.

Stelle folgende Punkte sicher:

- Schulter- und Beckengurt müssen angelegt werden. Die Gurte sollen möglichst fest, aber noch komfortabel anliegen und dürfen nicht in sich verdreht sein.
- DIETZ empfiehlt die Verwendung einer zum Transport geeigneten Kopfstütze.
- Der obere Teil des Sicherheitsgurtes muss über Rumpf, Schulter und Schlüsselbein verlaufen. Der Beckengurt muss in einem Winkel von 30° bis max. 75° zur Horizontalen verlaufen, aber keinesfalls größer 75°.
- Sicherheitsgurte dürfen nicht über Bauteile des Rollstuhls, wie etwa Armauflagen oder Räder, gelegt und dadurch vom Körper ferngehalten werden.
- Es dürfen nur Produkte als Rückhaltesystem verwendet werden, die nach ISO 7176-19 oder ISO 10542 zertifiziert und entsprechend vom Hersteller ausgewiesen sind.
- Die Feststellbremsen des Rollstuhls müssen während der Fahrt aktiviert sein.
- Komponenten, wie z. B. Therapietisch, Kissen oder Gehhilfen, die einfach vom Rollstuhl gelöst werden können, müssen vor der Fahrt entfernt werden. Bewahre diese Komponenten an einem geeigneten, sicheren Ort auf.
- Hochschwenkbare oder höhenverstellbare Fußrasten dürfen nicht hochgestellt sein, wenn Nutzende im Rollstuhl sitzend transportiert werden und der Rollstuhl mit einem Rückhaltesystem und Sicherheitsgurt gesichert ist.
- Verstellbare Rückenlehnen müssen in eine aufrechte Position gebracht werden.
- Die Sicherheit der Nutzenden während des Transports hängt von der Sorgfalt ab, mit der das Rückhaltesystem befestigt wird. Die Person, von der die Befestigung ausgeführt wird, sollte in der Bedienung des Systems unterwiesen und geschult sein.
- Wenn ein Rollstuhl in einen Unfall verwickelt wurde, muss er von DIETZ überprüft werden, bevor er wieder eingesetzt wird.



6 Individual adjustments

6.1 Important installation notes

▲ WARNING

Risk of accidents

- ▷ The adjustment options described in this chapter must be performed by competent medical retail employees.
- ▷ There is a risk of accidents if the wheelchair has been improperly modified!
- ▷ Improper brake adjustment can cause fatal accidents!
- ▷ Once the adjustment is complete, apply medium-strength thread locker to all screws not fitted with self-locking nuts or spring washers.

▲ WARNING

Risk of crushing

- ▷ Moving parts are associated with a risk of crushing.

Some of the adjustments described below require accessories. Only use original spare parts supplied by DIETZ. The use of unsuitable parts can be detrimental to the product quality and may result in considerable costs. DIETZ cannot be held responsible for damage to the product when unsuitable accessories and spare parts have been used. Spare parts are available in the DIETZ Online Shop.

The requirements for medical retail employees are defined as follows.

Medical retail employees:

- are able to perform the required tasks based on their technical training, expertise, and experience,
- are familiar with any applicable standards and regulations,
- can recognize potential risks associated with the overall process and avoid hazards.

6.2 Tools

The following tools are required to make the adjustments:

1. Hexagon socket key (3, 4, 5, 6 mm)
2. Spanner (10, 13, 19, 26 mm)
3. Phillips screwdriver



6.3 Adjusting the footplate angle

⚠ WARNING

Risk of crushing

- ▷ Moving parts are associated with a risk of crushing.

INFO

Once the adjustment is complete, apply medium-strength thread locker to all screws not fitted with self-locking nuts or spring washers.

The process for setting the angle in separate and joined footplates is the same.

1. Loosen the hexagon socket screw **(1)** at the front of the separate or joined footplate by a few turns.
2. Adjust the angle of the footplate **(2)**.
3. Re-tighten the hexagon socket screw **(1)** at the front of the separate or joined footplate (3 Nm).

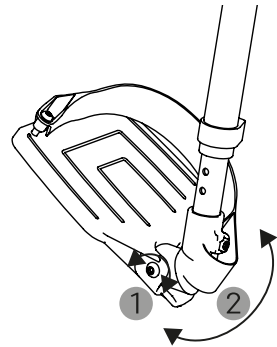


Fig. 45

⚠ WARNING

Risk of tipping

- ▷ If the minimum ground clearance of 40 mm is not maintained, the wheelchair may get stuck on obstacles on the floor.

⚠ WARNING

Risk of crushing

- ▷ Moving parts are associated with a risk of crushing.

The process for adjusting the lower leg length with the open, comfort, and closed legrests is similar.



1. Loosen the screw on the legrest by one turn **(1)**.
2. Decrease or increase **(2)** the lower leg length and set the desired position.
3. Firmly tighten the screw **(1)**.
4. Check the lower leg length for correct adjustment: the feet rest on the footplates and the thighs are in contact with the seat surface.

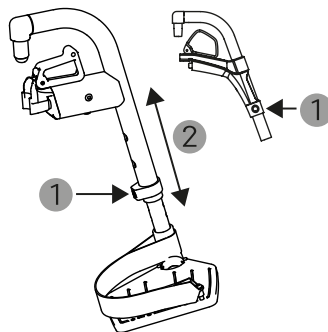


Fig. 46

6.5 Swivel legrest (optional)

▲ WARNING

Risk of crushing

▷ Moving parts are associated with a risk of crushing.

6.5.1 Adjusting the lower leg length

1. Loosen the 4 mm hexagon socket screw **(1)** by a few turns.
2. Push the footplate into the desired position using the line indicator on the tube **(2)**. Maintain a minimum ground clearance of 40 mm below the footplate.
3. Firmly tighten the screw **(1)**. The screw must engage with the mounting slide on the inside.

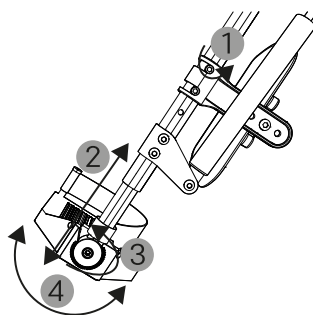


Fig. 47



6.5.2 Adjusting the footplate angle

1. Loosen the 5 mm hexagon socket screw **(3)**.
2. Pull the footplate towards the inside to remove it.
3. Insert the footplate at the desired angle **(4)**.
4. Attach the footplate with the hexagon socket screw **(3)**.

6.5.3 Calf pads

Installation and depth adjustment:

1. Install the pad in one of the positioning holes **(1)** on the calf pad support using the supplied 5 mm hexagon socket screw and nut.
2. Adjust the depth to one of the 20 mm increments of the hole pattern **(3)** and firmly tighten the screw.

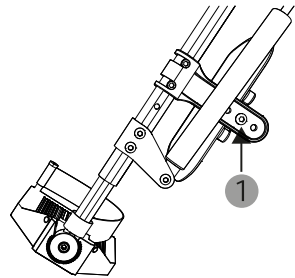


Fig. 48

Height adjustment:

1. Loosen the two 5 mm hexagon socket screws of the calf pad support.
2. Use the 4 bores to set the appropriate height in 30 mm increments **(2)**.
3. Tighten the screws.

Swivelling the calf pad:

1. To relieve the calf and provide more space for the leg, you can swivel the calf pad to the outside together with its support **(4)**.

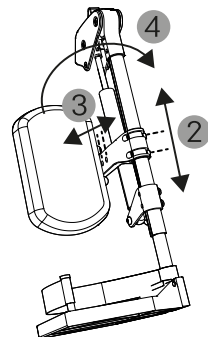


Fig. 49



6.6 Amputee leg support (optional)

⚠ WARNING

Risk of crushing

▷ Moving parts are associated with a risk of crushing.

6.6.1 Angle and height adjustment

1. Loosen the clamping lever **(1)** and remove the screw and the gearwheel counterpart.
2. Select one of the 3 bores for height adjustment.
3. Insert the screw and the gearwheel counterpart by a few turns.
4. Set the desired angle in continuous increments.
5. Tighten the clamping lever **(1)**.

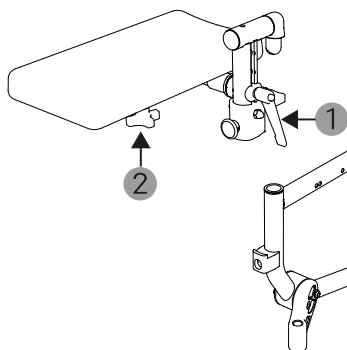


Fig. 50

6.6.2 Depth adjustment

1. Loosen the star knob screw **(2)**.
2. Set the desired depth in continuous increments.
3. Firmly tighten the star knob screw.

6.7 Adjusting the backrest height

⚠ WARNING

Risk of crushing

▷ Moving parts are associated with a risk of crushing.

The backrest pad can be adjusted to two positions (+/- 30 mm).



1. Before adjusting the backrest height, loosen the hook and loop fastener of the backrest cover and fold the cover in the forward direction.
2. Loosen the hexagon socket screw **(1)** on top of the backrest pipe.
3. Adjust the backrest pad depth to the desired position **(2)**.
4. Insert the screw.
5. Once adjustment is complete, fold the backrest cover back again and close the hook and loop fasteners.

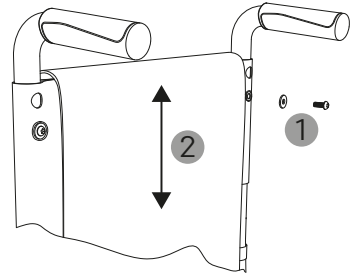


Fig. 51

6.8 Adjusting the fixed backrest angle (optional)

⚠ WARNING

Risk of tipping

- ▷ The risk of tipping over significantly increases with a strongly positive angle (10 ° onwards).
- ▷ DIETZ recommends using an anti-tip wheel.

⚠ WARNING

Risk of crushing

- ▷ Moving parts are associated with a risk of crushing.

6.8.1 Adjusting a negative or positive backrest angle

1. Loosen the two screws **(1)** and remove them.
2. Adjust a negative (-5 °, 0 °) or positive (0 °, 5 °, 10 °) backrest angle in the desired position.
3. Insert the screws **(1)** and the spacer sleeve and tighten them.

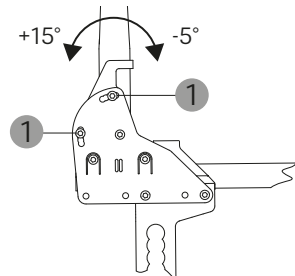


Fig. 52



6.9 Adjusting the parking brake

WARNING

Risk of accidents

▷ And improper brake adjustment can cause fatal accidents.

WARNING

Risk of crushing

▷ Moving parts are associated with a risk of crushing.

INFO

When using pneumatic tyres, please make sure that your tyres are inflated to the correct air pressure!

The tyre pressure has a significant effect on the brake effectiveness. Insufficient tyre pressure can cause the brake to fail. The recommended tyre pressure is indicated on the side of the tyre casing.

The distance between the brake bolt and tyre is critical for the parking brake effectiveness. This distance in the fully open position of the brake must be 10 mm.

When the seat height is low, it may be necessary to install the brake further towards the front.

Once the adjustment is complete, apply medium-strength thread locker to all screws not fitted with self-locking nuts or spring washers.

To adjust the brake, move the brackets along the side frame together with the brake.

1. Loosen the two screws **(1)** on the brackets.
2. Move the brake carrier until the desired distance has been reached **(2)**.
3. Tighten the two screws **(1)**.

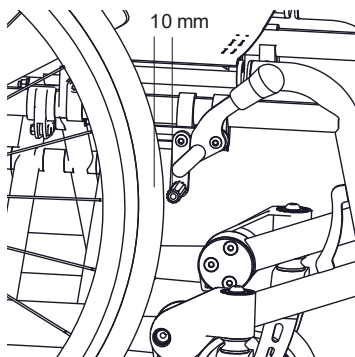


Fig. 53

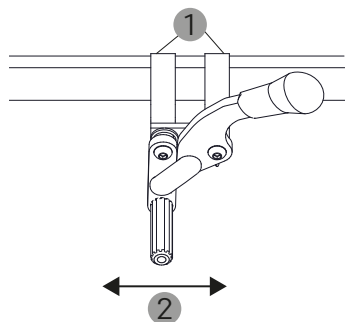


Fig. 54

6.10 Conversion for brake lever extension (optional)

⚠ WARNING

Risk of crushing

▷ Moving parts are associated with a risk of crushing.

INFO

Once the adjustment is complete, apply medium-strength thread locker to all screws not fitted with self-locking nuts or spring washers.

The longer brake lever lowers the force required to operate the brake.

1. Pull the standard handle (1) off the support.
2. Push the brake lever extension (2) into place and secure it with the nut and screw (4).
3. Make sure that the brake bolt (3) has the correct distance from the tyre and that the braking effect is evenly distributed to and sufficient on both sides (see chapter 6.9).

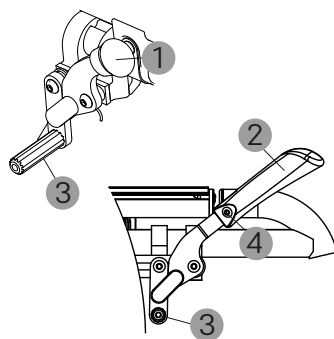


Fig. 55



6.11 Setting the brake force of the drum brake (optional)

⚠ WARNING

Risk of accidents

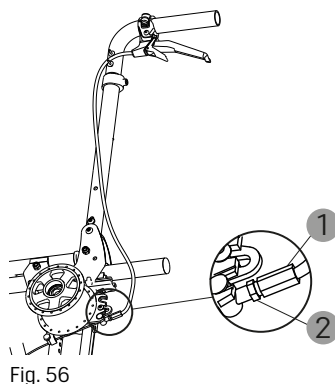
▷ And improper brake adjustment can cause fatal accidents.

⚠ WARNING

Risk of crushing

▷ Moving parts are associated with a risk of crushing.

1. To increase the brake force of the drum brake, turn the adjustment bolt **(1)** to extend it as far as desired.
2. Turn the lock nut **(2)** inward towards the drum brake to secure the Bowden cable.



6.12 One-handed brake (optional)

⚠ WARNING

Risk of accidents

▷ And improper brake adjustment can cause fatal accidents.

⚠ WARNING

Risk of crushing

▷ Moving parts are associated with a risk of crushing.

INFO

Once the adjustment is complete, apply medium-strength thread locker to all screws not fitted with self-locking nuts or spring washers.



6.12.1 Installing the one-handed brake

1. Loosen the two screws **(1)** on the brackets.
2. Remove the standard brakes **(2)** on both sides.
3. Use the supplied brackets to mount the one-handed brake **(3)** on both sides of the side frame. Install the brake lever on the active side.
4. The bracket has 2 sides: The small diameter side is intended for the one-handed brake rail, and the large diameter side is for the frame. The screws **(4)** of the bracket **(5)** face outward.
5. If necessary, loosen the screw and move the seat tube support **(6)** towards the front or back.
6. Attach the bracket **(5)** on the frame. Lightly tighten the screws **(4)** in such a way that the bracket can still be moved on the frame.
7. Loosen the bracket screws **(4)** by a few turns and push the one-handed brake rail **(7)** into the bracket **(5)**. Attach the bracket **(5)** on the frame and lightly tighten the screws **(4)**.
8. Swivel the bracket **(5)** of the one-handed brake towards the inside or outside to adjust the brake bolt position on the drive wheel.
9. On the passive side, the rail **(7)** of the one-handed brake can also be mounted in the opposite direction in case there is not enough space available. To do so, loosen the two screws on the rail **(7)**. Rotate it by 180° and firmly tighten the screws.
10. Repeat the installation procedure on the active side.
11. The brake bolt **(8)** must be fitted at a distance of 8 mm from the tyre to ensure sufficient brake force.
12. Firmly tighten the screws **(4)** of the bracket **(5)**.

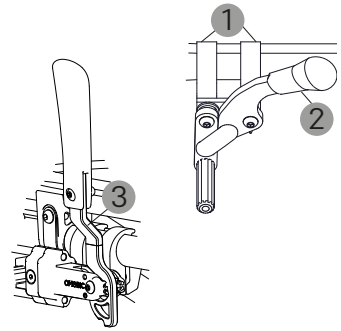


Fig. 57

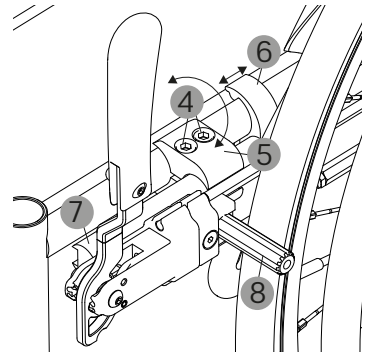


Fig. 58

6.12.2 Adjusting the one-handed brake on the passive side

The adjustment screws let you adjust the distance between the brake bolt of the one-handed brake and the tyre on the passive side of the user.

The end of the Bowden cable must be engaged with its support. Otherwise, the distance cannot be set correctly.



1. Turn the adjustment screw **(9)** to extend it while holding both the lock nut **(10)** and the nut **(11)**.
2. Turn the adjustment screw **(9)** until the brake bolt has the correct distance on the passive side of the user. DIETZ recommends adjusting one Bowden cable first and then adjusting the other cable until the first cable starts to move.
3. Once you have found the correct setting, secure the adjustment screw **(9)** with the lock nut **(10)**.
4. Make sure that the brake bolts contact the tyres on both sides simultaneously and that the braking effect is evenly distributed to and sufficient on both sides.

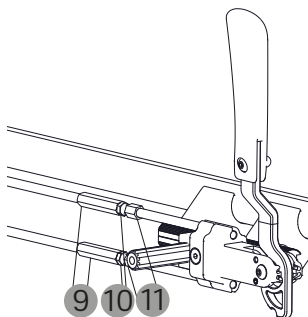


Fig. 59

EN

6.13 Adjusting the drive wheel position (active or passive)

⚠ WARNING

Risk of tipping

- ▷ The position of the drive wheels has a significant effect on the tipping stability. DIETZ recommends using an anti-tip wheel in case active drive wheel positions are used.

⚠ WARNING

Risk of crushing

- ▷ Moving parts are associated with a risk of crushing.



INFO

The drive wheels on both sides must be adjusted to the same position.

The drive wheel position (centre of gravity) can be shifted towards the front or back in 6 increments of 20 mm each.

The position is measured with reference to the backrest pipe. The negative range (active, -20 to -80 mm) is located towards the front, the positive range (passive, +20 mm) towards the rear.

For powered drives and amputee leg supports, DIETZ recommends a wheelbase extension.

-80 mm creates very fragile riding characteristics recommended for experienced wheelchair users only.

Once the adjustment is complete, apply medium-strength thread locker to all screws not fitted with self-locking nuts or spring washers.

1. To change the drive wheel position, the adapter plate is moved towards the front or back **(1)**.
2. To achieve adjustments between the increments, the plates are swapped from left to right and rotated by 180° **(2)**.

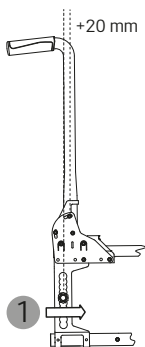


Fig. 60

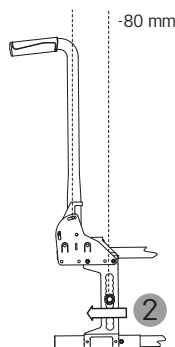


Fig. 61

6.14 Adjusting the rear seat height

⚠ WARNING

Risk of falling

- ▷ Always select a higher front seat height relative to the rear sitting height. Otherwise, users may fall from the seat toward the front.



INFO

Factors such as seat angle, tyres, etc. impact the seat height.

The indicated values are reference values with a tolerance of + or - 10 mm.

You can adjust the rear seat height within a range of 387.5 mm to 525 mm depending on your choice of wheels as per the table.

Once the adjustment is complete, apply medium-strength thread locker to all screws not fitted with self-locking nuts or spring washers.

1. Remove the drive wheel. Ensure that the wheelchair cannot tip over by supporting it or placing it on the side.
2. Loosen the screws of the axle support block.
3. Position the axle support block at the desired position along the row of holes.
4. Firmly tighten the screws (1).
5. Repeat steps 1 to 4 with the other drive wheel on the other side.

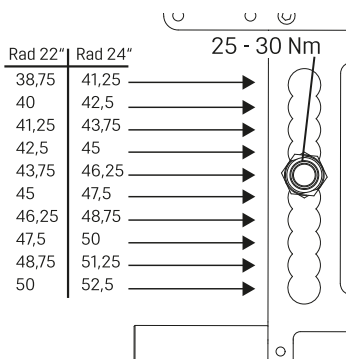


Fig. 62

6.15 Armrests (optional)

⚠ WARNING

Risk of crushing

▷ Moving parts are associated with a risk of crushing.

The height and length of the armrests can be adjusted.



1. To adjust the height, loosen the screws **(1)**.
2. Bring the armrest to the desired position and height **(2)**.
3. To select the length (Desk or Long), remove the armrest entirely.
4. Rotate the armrest by 180° **(3)** and insert it on the opposite side.
5. Insert the screw **(1)** and tighten it.

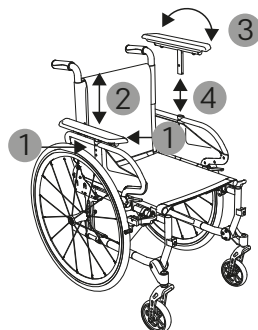


Fig. 63

⚠ WARNING

Risk of crushing

- ▷ Moving parts are associated with a risk of crushing.

INFO

Ensure proper armrest positioning. Incorrect positioning may result in an uncomfortable sitting position.

Use the silver support plate supplied by DIETZ for installation. The black support plate supplied with the Hemi armrest is not required.

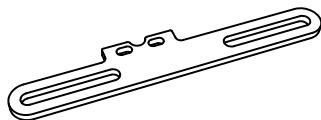


Fig. 64

6.16.1 Installing the HEMI armrest

1. Loosen the 2 screws **(1)** and remove the armrest pad **(2)** along with the slot nuts located underneath. The removed armrest pad is replaced by the HEMI armrest as described below. The figure shows an example.
2. When using the depth-adjustable armrest (optional), remove the spring-loaded adjustment mechanism: Remove the screw **(18)** on the adjustment mechanism along with the slot nut located on the inside.

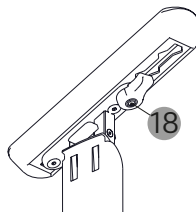


Fig. 65



3. Place the forearm support **(3)**, the hand piece **(4)**, and, if available, the centre piece with the profiles facing up onto a clean surface.
4. Insert the 2 slot nuts **(7)** into the forearm support **(3)** rail.
5. Insert the connecting plates **(5)** into the profiles while making sure that the connecting pieces are centred on the profiles.
6. Tighten the 4 threaded pins **(6)** on each side.
7. The bores in the slot nuts and the attachment unit **(8)** must be aligned.
8. Install the attachment unit **(8)** on the forearm support using the 2 hexagon socket countersunk screws **(9)**. The adjustment pin of the adjustment mechanism must point outward.
9. Attach the armrest support **(16)** on the slotted holes of the supplied silver attachment plate **(13)** with 2 nuts **(10)**, washers **(11)**, and screws **(12)** each. Only lightly tighten the screws in this step.
10. Hold the armrest in one hand and push the attachment plate **(13)** towards the recess **(17)**. Firmly tighten the screws **(12)**.
11. Sufficient space remains for the screws **(15)** and washers **(14)** to be installed in adjacent positions.
12. Install the attachment plate **(13)** on the attachment unit **(8)** using 2 screws **(15)** and 2 washers **(14)**.

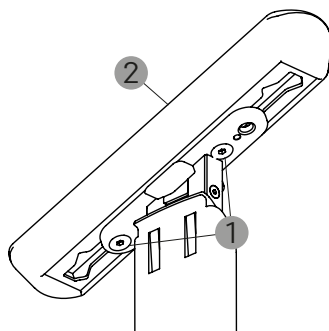


Fig. 66

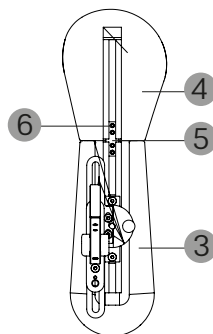


Fig. 67

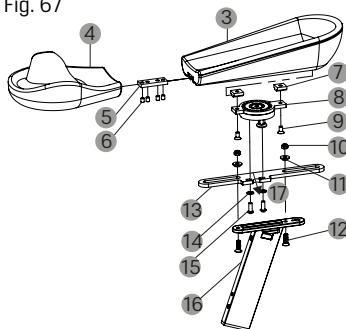


Fig. 68



6.17 Adjusting the drive wheel camber angle (optional)

INFO

It is important to fit the plates in the correct position in line with the camber angle as an incorrect position will cause the frame to warp.

The drive wheels can either be fitted vertically (0° /standard) or with 3° camber for an agile, athletic driving style. The adjustment is carried out in 2 steps.

Step 1

1. To increase the camber, loosen the screws **(1)** and **(2)** joining the connecting plate with the backrest pipe.
2. Remove the two half-moon shaped plastic parts.
→ You can slide the entire drive wheel adapter plate outward or inward.
3. Insert the two half-moons and the screws **(1)** on the opposite side.

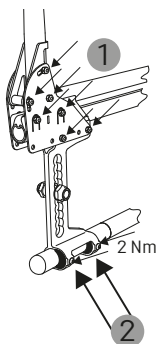


Fig. 69

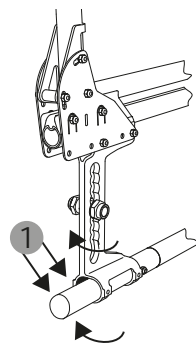


Fig. 70

**Step 2**

1. The connecting plates for the backrest pipe are bent to match the camber angle and must now be fitted in the correct position.
2. To ensure unambiguous identification, the plates are marked with the numbers I (2 x), II, and III.
3. Once the 4 plates are in the correct position, insert all screws **(1)** and tighten them.
4. Firmly tighten the clamping screws **(2)**.

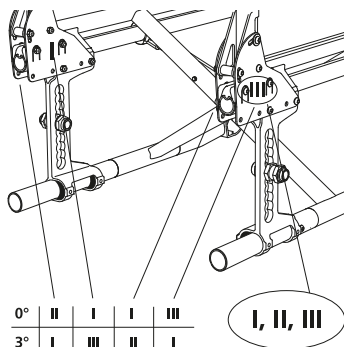


Fig. 71

6.18 Small or large push rim distance**⚠ WARNING****Risk of crushing**

- ▷ Moving parts are associated with a risk of crushing.

⚠ WARNING**Risk of tipping**

- ▷ The position of the drive wheels has a significant effect on the tipping stability. DIETZ recommends using an anti-tip wheel in case active drive wheel positions are used.

You can adjust the push rim distance from the drive wheels to 10 mm (default) or 20 mm:

1. Loosen the 6 retaining screws **(1)** on the push rims.
2. Select the position **(2)** with the smaller or larger distance in the hole pattern.
3. Tighten the 6 retaining screws **(1)** by hand.

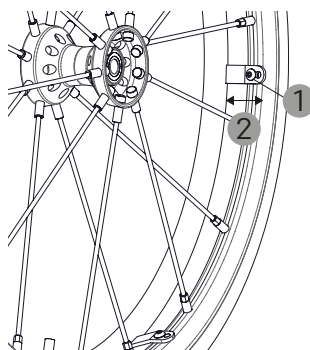


Fig. 72



6.19 Drive wheel toe-in correction

6.20 Adjusting the front seat height

▲ WARNING

Risk of crushing

▷ Moving parts are associated with a risk of crushing.

INFO

Factors such as seat angle, camber angle, tyres, etc. impact the seat height.

The indicated values are reference values with a tolerance of + or - 10 mm.

The front seat height can be adjusted within a range of 412.5 to 525 mm, depending on the front wheel (125 mm to 175 mm).

The adjustment is made by using different bores in the wheel fork and by switching the castor arms on the right and left side (see chapter 6.21).

The castor arm can be installed in an extended or retracted position.

The following figures show the different options. **(1)** points to the extended castor arm, and **(2)** points to the retracted castor arm.

6.20.1 Wheel size 5 "

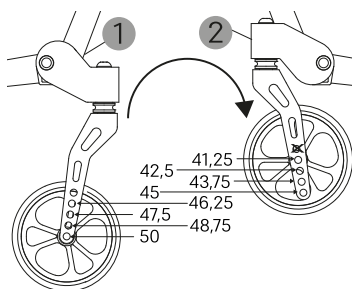


Fig. 73



6.20.2 Wheel size 6 "

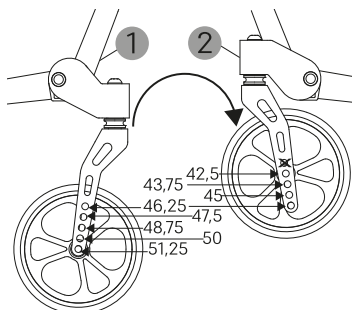


Fig. 74

6.20.3 Wheel size 7 "

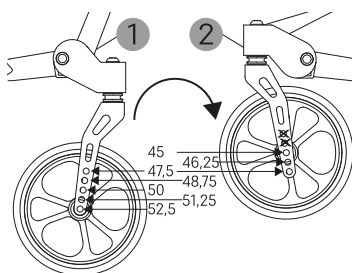


Fig. 75

6.21 Installing extended or retracted castor arms (adjusting the front seat height)

In order to achieve very high or very low front seat heights, the castor arms can be installed in such a way that they increase or decrease the seat height. For this purpose, the castor arms on the right and left side are switched. This changes the front seat height by + or - 50 mm.

⚠ WARNING

Risk of crushing

▷ Moving parts are associated with a risk of crushing.



INFO

Once the adjustment is complete, apply medium-strength thread locker to all screws not fitted with self-locking nuts or spring washers.

Keep the support plate **(1)** and re-insert it at the correct position.

1. To switch the castor arms on the right and left side, remove the front wheels and wheel forks.
2. Loosen the 3 retaining screws **(3)** on the inside of the frame.
3. Remove the cover cap **(2)** and pull the castor arm outwards **(4)**. Make sure that the support plate **(1)** does not get lost.
4. Remove the angle adjustment screw **(5)** and insert it again from the opposite side **(6)**.
5. Re-install the entire castor arm on the opposite side of the wheelchair **(7)**.
6. The castor arm points in the opposite direction **(8)** (up or down). Re-insert the support plate **(1)**. The support plate **(1)** is positioned in the designated notch and held in the correct position by the screw. It is not screwed into place
7. Re-insert the cover cap and fix it into place using the 3 screws (2 x long, 1 x short).
8. Install the front wheels at the desired position in the wheel fork.
9. Bring the castor angle back into the vertical position (see chapter 6.21).

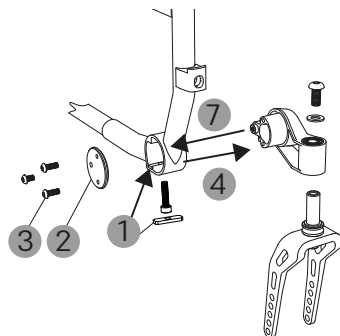


Fig. 76

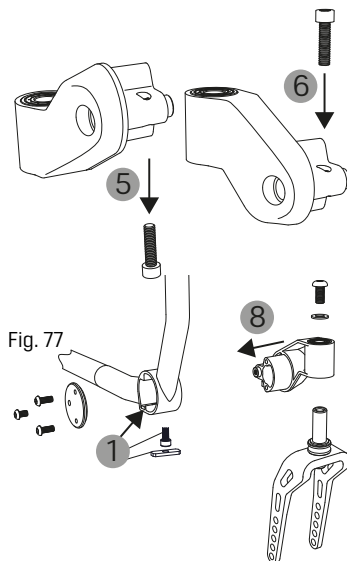


Fig. 77

Fig. 78



6.22 Adjusting the castor angle

⚠ WARNING

Risk of crushing

▷ Moving parts are associated with a risk of crushing.

INFO

Once the adjustment is complete, apply medium-strength thread locker to all screws not fitted with self-locking nuts or spring washers.

The angle of the castor arms must be adjusted according to the seat inclination resulting from the adjusted front and rear seat heights.

The angle must be adjusted in such a way that the castor forks (=castor angle) are vertical relative to the ground.

This adjustment option is intended to compensate for the seat inclination. A castor angle deviating from 90° has a negative impact on the wheelchair's riding characteristics.

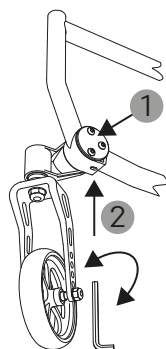


Fig. 79

1. To adjust the castor angle, loosen the 3 screws on the inside of the frame **(1)** by a few turns.
2. Insert a 5 mm hexagon socket key into the bore in the lower section of the castor housing **(2)** and use it to adjust the angle **(3)**.
3. Firmly tighten all screws.

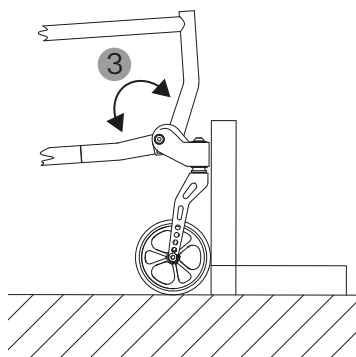


Fig. 80



6.23 Lap belt (optional)

1. Attach the slot nut **(2)** at both ends of the lap belt **(1)** using the screw **(3)**, spring disc **(4)**, and washer **(5)**.
2. Do not tighten the screw **(3)** firmly yet.
3. Loosen the screw and remove the cover cap **(6)**.
4. Guide the slot nut **(2)** into the guide rail on the wheelchair frame from the side of the backrest **(7)**.
5. Position the belt as desired.
6. Firmly tighten the screw **(3)**.
7. Place the cover cap **(6)** and firmly tighten the screw.

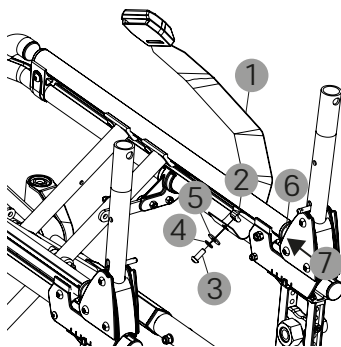


Fig. 81

6.24 Cane holder (optional)

INFO

Installing a cane holder requires an installed tilting aid.

1. Position the collar **(1)** on the tilting aid pipe.
2. Slightly open the collar and insert the two wings **(2)** into the cane holder **(3)** opening.
3. Squeeze the collar.
4. Install the cane holder **(3)** in the desired position using the screw **(4)**.

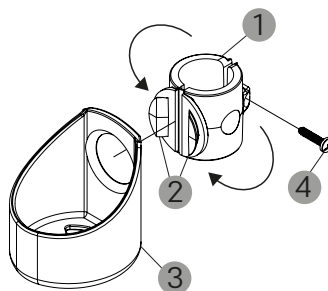


Fig. 82

6.24.1 Retaining strap

INFO

The purpose of the retaining strap is to prevent the cane from falling out of the holder. It must be installed in any case.



1. Where height-adjustable push handles are installed, the retaining strap is attached below the uppermost back support belt.
2. Where standard or foldable push handles are installed, the retaining strap is attached below the second belt from above.

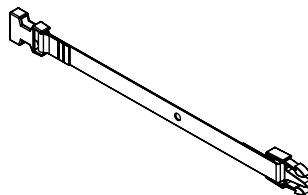


Fig. 83

EN

6.25 Therapy tray (optional)

INFO

The supplier documentation provided with the product contains detailed installation instructions.

Make sure that the armrests are horizontal as the table will not be level otherwise.

6.26 Installing the ADI backrest

INFO

The supplier documentation provided with the product contains detailed installation instructions.

6.27 Installing the ADI headrest

INFO

The supplier documentation provided with the product contains detailed installation instructions.



7 Notes on using the product

7.1 Accessories, add-ons, and conversions by third-party suppliers

⚠ WARNING

Risk of injury

- ▷ In case accessories or add-ons are fitted to the product, the safety instructions in the user manual for such accessories or add-ons must be observed.

⚠ WARNING

Risk of injury

- ▷ The safety of the product cannot be guaranteed in case add-ons or accessories are used without prior approval by DIETZ.

Any combination of a DIETZ product with accessories not supplied by us constitutes a change to the product. If third-party products are installed on a DIETZ product, the responsibility for the safety of the product passes on to the person installing the accessory or add-on. We recommend the exclusive use of original accessories by DIETZ GmbH and the exclusive use of combinations that have been tested for efficacy and safety based on a combination agreement in line with Annex I, No. 14.1 of the EU Regulation 2017 / 745 (MDR). Our Service will be happy to provide you with more detailed information on approved accessories and combination agreements.

7.2 Maintenance

⚠ WARNING

Risk of injury

- ▷ To maintain the operational safety of the product, have repairs performed by a medical retailer.

⚠ WARNING

Risk of crushing

- ▷ Mind your fingers when folding and setting up the product, and only handle the parts required to do so.

Unless otherwise stated, the inspections and measures stipulated in the maintenance schedule are performed by the users or their care assistants.

To ensure safe use of the product, perform the inspections listed in the maintenance schedule at regular intervals. Improper product care and maintenance will result in



limited liability. The maintenance schedule is a guideline and must be adapted to the actual operating conditions of the product.

If you notice a fault described in the maintenance schedule, or any other defects or functional impairments, please contact a medical retailer.

INFO

for medical retailers

If users report any product abnormalities, please check all the inspection points listed in the maintenance schedule. The same checks must also be performed before reusing the product and following prolonged periods of storage (in excess of 4 months).

Only use original spare parts supplied by DIETZ. The use of unsuitable spare parts can be detrimental to the product quality and may result in considerable costs. DIETZ cannot be held responsible for damage to the product when unsuitable spare parts have been used. Spare parts are available in our DIETZ Online Shop.

7.3 Maintenance schedule

7.3.1 Maintenance prior to use

▲ WARNING

Falling

- ▷ The parking brakes must be re-adjusted after replacing the drive wheels or changing their position. This must be done by a medical retailer.

▲ WARNING

Risk of accidents

- ▷ The wheelchair must not be used if air is escaping from the tyres. A safe ride cannot be ensured in this case.

INFO

Once the adjustment is complete, apply medium-strength thread locker to all screws not fitted with self-locking nuts or spring washers.

Prior to use

What to check	Description
Parking brakes: function	• The wheels must not turn when the parking brakes are locked.



What to check	Description
Drum brake (optional): function	- When the brake levers are operated, the braking effect must be sufficient. - The Bowden cable must not be damaged.
Seat and backrest pad: soiling and damage	- If the seat surface and cushions are dirty, clean them in line with the cleaning instructions. - Have damaged seat surfaces or cushions replaced.
Moving parts: function and wear	Check all moving parts (legrests, backrest incl. side guards) for ease of movement and low-noise operation.
Bolted joints: tight	All bolted joints must be tight.
Wheels: function and damage	- The wheels must run in a straight line and must swivel easily. - Have damaged and heavily worn wheels and swivelling rollers replaced. - The spokes should not be loose, bent, or broken. - The drive wheel must not come loose when subjected to a lateral pulling force.
Pneumatic tyres (optional): function and damage	- Check the tyre pressure. - Inflate the tyres to the specified pressure (refer to print on the side of the tyre). - Replace damaged or heavily worn tyres.
Cleaning: dirt	Clean and disinfect the seat surface.

7.3.2 Monthly maintenance

⚠ WARNING

Risk of falling

- Self-locking nuts and bolts become ineffective after multiple loosening and tightening cycles. Therefore, any loose self-locking nuts and bolts must be replaced by a medical retailer.

**⚠ WARNING****Risk of injury**

- ▷ Surface damage on the push rims must be rectified immediately.

⚠ WARNING**Risk of injury**

- ▷ In case any damage due to loose or damaged parts is detected, the product must no longer be used as its safe use is no longer ensured.

Monthly

What to check	Description
Moving parts: function and wear	● Prior to use, ensure that the hook and loop connections for adjusting the seat surface and backrest are correctly adjusted and firmly established. ● It must be easily possible to lock and swivel back the side guards. ● It must be easily possible to remove, install, and lock the legrests. ● In case of damage impairing the functionality, the components must be replaced by a medical retailer.
Bolted joints: tight	● All retaining screws must be firmly tightened.
Wheels: function and damage	● Remove dirt and deposits from the swivelling rollers, quick-release axles, and wheel hubs. ● Check the wheels for correct adjustment after each reinstallation. The quick-release axles must be firmly locked in the wheel suspension.
Tyres (PUR): function and damage	● Replace damaged or heavily worn tyres.



What to check	Description
Push handles: function and wear	● The push handles must be properly fixed. ● The push handles must be at the same height and must not be visibly damaged or bent. ● The locking screw must lock properly (in case of height-adjustable push handles).
Side guard, complete: function and damage	● It must be easily possible to remove, install, swivel, and lock the side guards. ● Fix any damage impairing the functionality.
Backrest: function and damage	● When an adjustable backrest (optional) is fitted, the backrest angle must have the same adjustment on both sides. ● The push handles must be at the same height in the horizontal plane.
Legrest and footplates: function and damage	● It must be easily possible to remove, install, swivel, and lock the legrest. ● Fix any damage impairing the functionality.
Push rims: damage and wear	● The push rims must be securely screwed to the wheel.
Folding mechanism: ease of movement	● It should be easily possible to quietly fold the wheelchair.
Frame, complete: function and damage	● Frame components and hinges must not be damaged or cracked. ● Functional damage or severe surface damage must be rectified.
Visual inspection: loose parts, cracks, corrosion	● Perform a visual inspection for loose parts, cracks, corrosion, and other damage.
Entire product: check for soiling	● The entire product must be cleaned based on how dirty it is, however, it must be cleaned at least once a month.



7.4 Troubleshooting

7.5 Cleaning

NOTICE

Property damage

- ▷ Do not use high-pressure cleaners, strong, corrosive chemicals, or abrasive additives for cleaning purposes.

NOTICE

Property damage

- ▷ In order to prevent corrosion, ensure that all materials are completely dry after cleaning.

NOTICE

Property damage

- ▷ Sand and sea water (or gritting salt) can damage moving parts and the wheel bearings. Thoroughly clean the product after it has been exposed to such conditions.

The product and its non-textile components can be regularly wiped down with a moist cloth. In case of heavy soiling, lukewarm water with added mild detergent is used. After cleaning, the product is wiped down with clear water and dried with a cloth.

The wheels can be cleaned with a moist brush with soft plastic bristles. Do not use a wire brush!

The textiles are hand-washable with a mild detergent at up to 40 °C. Machine-washable textiles are labelled accordingly.

7.6 Disinfection

▲ WARNING

Risk of infection

- ▷ To avoid cross-contamination, disinfect the product each time before giving it to any other person.
- ▷ Safe disinfection cannot be ensured in textiles with seams. DIETZ recommends having such textiles replaced.



NOTICE

Property damage

- ▷ When disinfecting, observe any instructions provided by the manufacturer of the cleaning or disinfection agents used.

NOTICE

Property damage

- ▷ Observe the washing instructions for any removable textiles where available.

All components are thoroughly sprayed with a commercially available surface disinfectant or a cloth is wetted with disinfectant used it to wipe all components. Particular care is required to thoroughly disinfect surfaces that come into frequent contact with skin, e.g. seat surface, handles.

Please refer to the most recent list published by the Robert Koch Institute (www.rki.de/en) to select a disinfectant compatible with the materials to be disinfected.

The following disinfectants are compatible with the materials used:

- aldehyde-free, alcohol-based disinfectants (max. 70 % propyl alcohol content)
- water-based disinfectants (alcohol-free, aldehyde-free, solvent-free, and perfume-free)

7.7 Passing on the product and reuse

▲ WARNING

Risk of infection

- ▷ To avoid cross-contamination, disinfect the product each time before giving it to any other person.
- ▷ Safe disinfection cannot be ensured in textiles with seams. DIETZ recommends having such textiles replaced.

INFO

If the product is labelled as a custom-made device, it must not be passed on or reused.

The product is suitable for passing it on and reusing it. The number of times it can be reused depends on the material wear condition and the functional condition of the respective product. When passing on the product to a new user or medical retailer, please hand over all technical documents necessary for safe use along with it.



The product must be cleaned, disinfected, checked for damage, and approved by a medical retailer prior to reuse. All product inspection points listed in the maintenance schedule must be checked in this context.

7.8 Disposal

Contact a medical retailer when the product is no longer needed. The medical retailer will collect the product for proper disposal or processing in order to pass it on and reuse it.

The entire product must be disposed of in line with the applicable country-specific regulations. It is made of aluminium and plastics. These materials and the packaging material (cardboard) can be recycled.

8 Technical specifications

8.1 How DIETZ measures

All indicated dimensions apply to the standard product configuration.

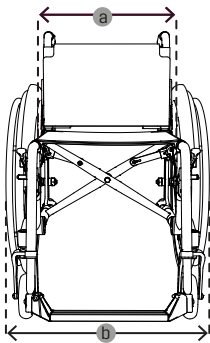


Fig. 84

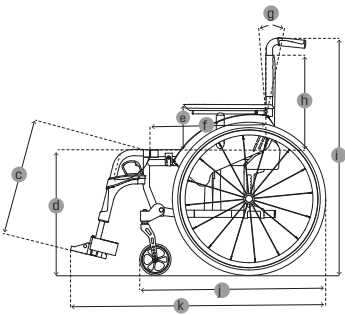


Fig. 85

INFO

All measured dimensions of textile components (e.g. backrest height) are reference values with a tolerance of +or -10 mm.

The AS01 is a configurable product. Depending on the configuration, the recommended dimension of 700 mm can be exceeded.

8.2 Dimensions and technical information

AS[01]

	Specification		up to 125 kg
	Number in the German register of approved aids and appliances (HMV)		18.50.03.0213
k	Overall length including legrest ¹	mm	840 – 1020

¹ Depending on the drive wheel position.



	Specification		up to 125 kg
b	Overall width ¹	mm	560 – 740
	Overall height	mm	790 – 1140
j	Length in folded state excluding legrest	mm	720 – 900
	Width in folded state	mm	280 – 300
i	Height in folded state	mm	790 – 1140
	Total weight	kg	from 12.8
	Mass of the heaviest component ²	kg	from 7.5
	Static stability downhill	°	up to 10
	Static stability uphill	°	up to 10
	Static stability lateral	°	up to 10
	Maximum inclination for using the parking brake	°	up to 10
	Seat angle	°	- 5 to 15
a	Effective seat width	mm	360 – 560
f	Effective seat depth	mm	360 – 570
d	Front seat height ³	mm	412.5 – 525
	Rear seat height ⁴	mm	387.5 – 525
g	Backrest angle ⁵	°	-5 to +15 (in increments of 5°)
h	Backrest height	mm	290 – 500
c	Footplate height to seat surface	mm	370 – 510
l	Legrest to seat surface angle	°	102 – 110

¹ Depending on the wheelchair's configuration, the recommended dimension of 700 mm (acc. to DIN EN 12183) can be exceeded from a seat with of 480 mm onward.

² Wheelchair weight excluding removable components (in this case without drive wheels, side guards, and legrests)

³ Measured relative to the seat surface.

⁴ Measured relative to the seat surface.

⁵ Maximum user weight including additional loads. The weight of any additional loads reduces the maximum load capacity accordingly.



	Specification		up to 125 kg
e	Adjustable armrest	mm	220 – 260
	Backrest to armrest front edge	mm	290 – 340
	Push rim diameter	mm	530
	Horizontal axle position	mm	-20 to +80
	Steering range	mm	min. 1010 at ST 45
	Maximum load capacity ¹	kg	125

AS[01]RF without frame taper

	Specification		Legrest 77 to 125 kg	Legrest 77 to 150 kg
	Number in the German register of approved aids and appliances (HMV)		18.50.03.0248	18.50.03.0247
k	Overall length including legrest ²	mm	940 – 1000	1060
b	Overall width ³	mm	560 – 740	560 – 740
i	Overall height	mm	790 – 1140	790 – 1140
k	Length in folded state	mm	940 – 1000	1060
	Width in folded state	mm	280 – 300	280 – 300
i	Height in folded state	mm	790 – 1140	790 – 1140
	Total weight	kg	from 12	from 12.5
	Mass of the heaviest component ⁴	kg	from 8	from 8.5
	Static stability downhill	°	up to 10	up to 10
	Static stability uphill	°	up to 10	up to 10

¹ Maximum load capacity including additional loads. The weight of any additional loads reduces the maximum load capacity accordingly.

² Depending on the drive wheel position.

³ Depending on the wheelchair's configuration, the recommended dimension of 700 mm (acc. to DIN EN 12183) can be exceeded from a seat with of 480 mm onward.

⁴ Wheelchair weight excluding removable components (in this case without drive wheels, side guards, and legrests)



	Specification		Legrest 77 to 125 kg	Legrest 77 to 150 kg
	Static stability lateral	°	up to 10	up to 10
	Maximum inclination for using the parking brake	°	up to 10	up to 10
	Seat angle	°	- 5 to 15	- 5 to 15
a	Effective seat width	mm	380 – 560	440 – 560
f	Effective seat depth	mm	360 – 450	480 – 510
d	Front seat height ¹	mm	412.5 – 525	412.5 – 525
	Rear seat height ²	mm	387.5 – 525	412.5 – 525
g	Backrest angle ³	°	-5 to +15 (in increments of 5°)	-5 to +15 (in increments of 5°)
h	Backrest height	mm	290 – 500	290 – 500
c	Footplate height to seat surface	mm	370 – 510	370 – 510
l	Legrest to seat surface angle	°	103	103
e	Adjustable armrest	mm	220 – 260	220 – 260
	Backrest to armrest front edge	mm	290 – 340	290 – 340
	Push rim diameter with 24"	mm	530	530
	Horizontal axle position	mm	-20 to +80	-20 to +80
	Steering range	mm	min. 1010 at ST 45	min. 1160 at ST 51
	Maximum load capacity ⁴	kg	125	150

¹ Measured relative to the seat surface.

² Measured relative to the seat surface.

³ Maximum user weight including additional loads. The weight of any additional loads reduces the maximum load capacity accordingly.

⁴ Maximum load capacity including additional loads. The weight of any additional loads reduces the maximum load capacity accordingly.


AS[01]RF with frame taper (30 mm per side)

	Specification		Legrest 77 to 125 kg	Legrest 77 to 150 kg
	Number in the German register of approved aids and appliances (HMV)		18.50.03.0248	18.50.03.0247
k	Overall length including legrest ¹	mm	940 – 1000	1060
b	Overall width ²	mm	560 – 740	560 – 740
i	Overall height	mm	790 – 1140	790 – 1140
k	Length in folded state	mm	940 – 1000	1060
	Width in folded state	mm	280 – 300	280 – 300
i	Height in folded state	mm	790 – 1140	790 – 1140
	Total weight	kg	from 12	from 12.5
	Mass of the heaviest component ³	kg	from 8	from 8.5
	Static stability downhill	°	up to 10	up to 10
	Static stability uphill	°	up to 10	up to 10
	Static stability lateral	°	up to 10	up to 10
	Maximum inclination for using the parking brake	°	up to 10	up to 10
	Seat angle	°	- 5 to 15	- 5 to 15
a	Effective seat width	mm	380 – 560	440 – 560
f	Effective seat depth	mm	360 – 450	480 – 510
d	Front seat height ⁴	mm	412.5 – 525	412.5 – 525
	Rear seat height ⁵	mm	387.5 – 525	412.5 – 525

¹ Depending on the drive wheel position.

² Depending on the wheelchair's configuration, the recommended dimension of 700 mm (acc. to DIN EN 12183) can be exceeded from a seat with of 480 mm onward.

³ Wheelchair weight excluding removable components (in this case without drive wheels, side guards, and legrests)

⁴ Measured relative to the seat surface.

⁵ Measured relative to the seat surface.



	Specification		Legrest 77 to 125 kg	Legrest 77 to 150 kg
g	Backrest angle ¹	°	-5 to +15 (in increments of 5°)	-5 to +15 (in increments of 5°)
h	Backrest height	mm	290 – 500	290 – 500
c	Footplate height to seat surface	mm	370 – 510	370 – 510
l	Legrest to seat surface angle	°	103	103
e	Adjustable armrest height	mm	220 – 260	220 – 260
	Backrest to armrest front edge	mm	290 – 340	290 – 340
	Push rim diameter with 24"	mm	530	530
	Horizontal axle position	mm	-20 to +80	-20 to +80
	Steering range	mm	min. 980 at ST 45	min. 1030 at ST 51
	Maximum load capacity ²	kg	125	150

AS[01]RF with frame taper (30 mm per side)

	Specification		Legrest 82 to 125 kg	Legrest 82 to 150 kg
	Number in the German register of approved aids and appliances (HMV)		18.50.03.0248	18.50.03.0247
k	Overall length including legrest ³	mm	910 – 970	1030
b	Overall width ⁴	mm	560 – 740	560 – 740
i	Overall height	mm	790 – 1140	790 – 1140
k	Length in folded state	mm	910 – 970	1030

¹ Maximum user weight including additional loads. The weight of any additional loads reduces the maximum load capacity accordingly.

² Maximum load capacity including additional loads. The weight of any additional loads reduces the maximum load capacity accordingly.

³ Depending on the drive wheel position.

⁴ Depending on the wheelchair's configuration, the recommended dimension of 700 mm (acc. to DIN EN 12183) can be exceeded from a seat with of 480 mm onward.



	Specification		Legrest 82 to 125 kg	Legrest 82 to 150 kg
	Width in folded state	mm	280 – 300	280 – 300
i	Height in folded state	mm	790 – 1140	790 – 1140
	Total weight	kg	from 12	from 12.5
	Mass of the heaviest component ¹	kg	from 8	from 8.5
	Static stability downhill	°	up to 10	up to 10
	Static stability uphill	°	up to 10	up to 10
	Static stability lateral	°	up to 10	up to 10
	Maximum inclination for using the parking brake	°	up to 10	up to 10
	Seat angle	°	- 5 to 15	- 5 to 15
a	Effective seat width	mm	380 – 560	440 – 560
f	Effective seat depth	mm	360 – 450	480 – 510
d	Front seat height ²	mm	412.5 – 525	412.5 – 525
	Rear seat height ³	mm	387.5 – 525	412.5 – 525
g	Backrest angle ⁴	°	-5 to +15 (in increments of 5°)	-5 to +15 (in increments of 5°)
h	Backrest height	mm	290 – 500	290 – 500
c	Footplate height to seat surface	mm	370 – 510	370 – 510
l	Legrest to seat surface angle	°	98	98
e	Adjustable armrest height	mm	220 – 260	220 – 260
	Backrest to armrest front edge	mm	290 – 340	290 – 340
	Push rim diameter with 24"	mm	530	530

¹ Wheelchair weight excluding removable components (in this case without drive wheels, side guards, and legrests)

² Measured relative to the seat surface.

³ Measured relative to the seat surface.

⁴ Maximum user weight including additional loads. The weight of any additional loads reduces the maximum load capacity accordingly.



	Specification		Legrest 82 to 125 kg	Legrest 82 to 150 kg
	Horizontal axle position	mm	-20 to +80	-20 to +80
	Steering range	mm	min. 960 at ST 45	min. 1010 at ST 51
	Maximum load capacity ¹	kg	125	150

8.3 Other information

EN

Other information	up to 125 kg	up to 150 kg
Colours	Frame: Matt Black; side guards: Pearl White, Petrol, Atomic Umbra, Cobalt Blue, Black, Granet Red Metallic	Frame: Matt Black; side guards: Pearl White, Petrol, Atomic Umbra, Cobalt Blue, Black, Granet Red Metallic
Seat width, mm	360 - 540	380 - 5400
Armrests (LxW), mm	250 Desk / 350 Long usable x 60	250 Desk / 350 Long usable x 60
Push handle height	860 – 980 / optional + 100 mm adjustable	860 – 980 / optional + 100 mm adjustable
Drive wheels (diameter), "	22 x 1" / 24 x 1" / 24 x 1 3/8" / 26 x 1"	22 x 1" / 24 x 1" / 24 x 1 3/8" / 26 x 1"
Swivelling wheels (diameter), mm / "	125 x 34 / 125 x 36 / 150 x 40 / 175 x 40 / 5 / 6 / 7	125 x 34 / 125 x 36 / 150 x 40 / 175 x 40 / 5 / 6 / 7
Legrest weight, kg	0.63 - 0.98	0.63 - 0.98
24" drive wheel weight, kg	24" smooth running air 1.9 - 3.5 24" PUR TB	24" smooth running air 1.9 - 3.5 24" PUR TB

8.4 Materials

Component	Material
Frame, backrest pipes	aluminium, black anodised
Seat pad and backrest pad	polyester
Armrests	PUR foam

¹ Maximum load capacity including additional loads. The weight of any additional loads reduces the maximum load capacity accordingly.



Component	Material
Cross brace	aluminium, black varnished
Screws, joints	stainless steel, galvanized, or cathodic dip-paint coat
Drive wheel and swivelling wheel tyres	PUR plastic
Therapy tray	acrylic glass
Heel/calf strap	polypropylene (PP)
Legrests	aluminium, plastic
Joined footplate	aluminium, plastic
Push handles	thermoplastic rubber (TPR)
Brake levers	polypropylene (PP)

8.5 Product tests

Standard	tested
DIN EN 12183	Standards for manually propelled wheelchairs
ISO 7176-8	Static load capacity, impact strength, and fatigue strength
EN 1021-2	Ignition resistance of upholstery materials and plastic components
ISO 10993-5	Toxicity of materials



9 Manufacturer's declarations

9.1 Warranty

Warranties cover all defects of the product, which are verifiably attributable to flaws in the material or manufacturing processes. The warranty period is 24 months from receipt of the dispatch note, or, if not received, from the date of delivery. Any damage that has occurred as a result of wear and tear, deliberate damage, or negligent or improper operation, use, or cleaning is not covered under statutory warranty obligations. This also applies to the use of unsuitable care products and lubricating oil or grease.

9.2 Liability

DIETZ GmbH can only be held liable if the products are used under the specified conditions and for the specified purposes. DIETZ recommends proper handling and care of the products as per the instructions. DIETZ GmbH cannot be held liable for any damage caused by components and spare parts that have not been approved by DIETZ GmbH. Repairs must be carried out exclusively by medical retailers or the manufacturer.



User manual Version 4.0 EN

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