



Car Seat Comparison Guide



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Car Seat Comparison Chart



	THOMASHILFEN COMMANDER	THOMASHILFEN DEFENDER - CARSEAT	THOMASHILFEN DEFENDER - BOOSTER	THOMASHILFEN HERCULES PRIME
DESCRIPTION	Solid core lateral supports offer extra support for children with little upper body control	A narrow special purpose car seat offering many positioning options	A version of the Defender with or without swivel base and used for heavier children	A modular positioning seat that grows with the user and offers postural supports
ISOFIX NECESSARY FOR INSTALL	Yes	No/ optional for 10-21.9 kg / Use of Top tether strap necessary	No/Yes with swivel base	Yes
POSTURAL SUPPORT LEVEL	Mild / Moderate / High	Mild / Moderate / High	Mild / Moderate / High	Mild / Moderate / High
USER WEIGHT RANGE (KG)	15 - 36	10 - 29.5	13.6 - 50	18.1 - 80
SEAT WIDTH (CM)	Front 33,5 no supports 22 with supports Rear 28,5 no supports 17 with supports	21.5 - 30.5	21.5 - 30.5	40
SEAT DEPTH (CM)	34	32.5	32.5	40 - 46
SEAT TO SHOULDER HEIGHT (CM)	25 - 44	25.4 - 49.5	25.4 - 49.5	38 - 60
APPROX PRODUCT WEIGHT (KG)	8.5	10	10	13.5
TILT	✓ with tilt plate	✓ with seat wedge	✓ with seat wedge	✓ with tilt plate
RECLINE	✓	✓	✓	✓
SWIVEL	✓	✗	✓	✓
ANTI ESCAPE OPTIONS	✓	✗	✗	✗
FOOTPLATE	✓	✓	✓	✓
SUPPORTS/LATERAL PAD OPTIONS	Solid core or foam pads	Soft foam pads	Soft foam pads	Solid core pads (Fixed or Swing away)
REGULATION COMPLIANCE	ECE r44	FMVSS 213 / CMVSS 213	FMVSS 213 / CMVSS 213	FMVSS213



	HERNIK HERO NXT	HERNIK HERO STARLIGHT NXT	HERNIK IPAI LGT	CARROT 3000	CARROT XL
DESCRIPTION	Swivelling special purpose car seat for forward or rear facing	Excellent posture support options with tilt and swivel functions	Lightweight, adjustable special purpose restraint with postural supports	Extension accessories and multi-adjustable features allow longer use	Larger version of Carrot 3000 for older or heavier children and small adults
ISOFIX NECESSARY FOR INSTALL	Yes	Yes	Optional	No with std base/ Yes with swivel base	Optional
POSTURAL SUPPORT LEVEL	Mild / Moderate / High	Mild / Moderate / High	Mild / Moderate	Mild / Moderate / High	Mild / Moderate / High
USER WEIGHT RANGE (KG)	0 - 18	9 - 36	15 - 36	13.6 - 49	36 - 75
SEAT WIDTH (CM)	With std cushion: 21 Without std cushion: 25	30	Front: 34 Rear: 31	31	48
SEAT DEPTH (CM)	With std cushion: 25 Without std cushion: 28	30	32	25 - 40	38 or 42
SEAT TO SHOULDER HEIGHT (CM)	With std cushion: 24 - 34 Without std cushion: 27 - 35	27 - 39	35 - 58	32 - 47 45 - 60 with shoulder wing protectors	50 - 60
APPROX PRODUCT WEIGHT (KG)	16	13.5	7	8.7	10.5
TILT	✓ inbuilt	✓ inbuilt	✓ with seat wedge	✓ with seat wedge	✓ with seat wedge
RECLINE	×	×	✓	✓	✓
SWIVEL	✓	✓	×	✓	×
ANTI ESCAPE OPTIONS	×	×	×	✓	✓
FOOTPLATE	×	×	×	✓	×
SUPPORTS/LATERAL PAD OPTIONS	Solid core pads	Solid core pads	Foam pads	Foam pads (Soft or Firm)	Foam pads (Soft or Firm)
REGULATION COMPLIANCE	ECE r129	ECE r44	ECE r44	FMVSS213 / ECE r44	FMVSS213 / ECE r44



Thomashilfen Commander

Commander is a highly adaptive positioning car seat for children with special needs. Especially for children with little upper body control, the fixed lateral trunk supports offer this extra support and protection – the supports have proven themselves over many years of use in rehab strollers. A huge selection of accessories and easy handling make the adjustment perfect.

Key Features:

- The unique, modular combination of swivel base and tilting base can be supplemented with a variety of accessories as required.
- With the integrated seat tilt +3° a resting position is quickly adjusted.
- The breathable cover can be completely removed and washed.
- Release lever (draw latch) for easy handling and easy to reach. It can be mounted either on the left or right front of the swivel base.
- Comfortable handling - 5-point harness automatically adjusts when growing with the child.
- Integrated 9-way height-adjustable headrest including additional padding.
- Optional use of modular function plates with rotation and/or tilt function and further accessories.
- Handy cup holder (right or left applicable).

Specifications:

Commander	Measurement
Seat depth	34 cm / 13.4"
Seat width, front (with supports)	33.5 cm (22 cm) / 13.2" (8.7")
Seat width, rear (with supports)	28.5 cm (17 cm) / 11.2" (6.7")
Back height (seat)	55 - 75 cm / 21.7 - 29.5"
Shoulder height (belt guide)	25 - 44 cm / 9.8 - 17.3"
Seat tilt (basic model)	3°
Seat tilt (with tilting plate)	5.5° / 11° / 16°
Lower leg length (Footrest directly attached to adapter plate)	23 - 40 cm / 9.1 - 15.7"
Lower leg length (Footrest attached to swivel base + tilting base)	28 - 45 cm / 11 - 17.7"
Overall dimensions (w x h x d)	55 x 65 x 45 cm / 21.7 x 25.6 x 17.7"
Weight of seat	approx. 8.5 kg / 18.7 lb
Max. user weight	15 - 36 kg / 33.1 - 79.4 lb
Regulation compliance	ECEr44

Thomashilfen Commander Accessories:



Abduction block and hip supports



Lateral trunk supports (metal core)



Crotch pad (large)



Seat wedge (inside)



Table



Anti-escape vest



Car seat protection mat with back



Swivel base



Tilting base



Tilting base and swivel Base



Footrest with pad



Stand and seatflix adapter



Seat depth extension



Abduction block

Note: Only use accessories which have been manufactured to be used with the Commander car seat

Thomashilfen Defender (Car Seat)

The Defender car seat helps families enjoy safe travelling by offering children with special needs 360° of impact protection. The head, trunk and thighs supports, combined with unique accessories offer many positioning options. The seat allows for growth while remaining narrow enough for a second car seat as well as another child to fit in the back seat.

Key Features:

- Head, trunk and thighs positioning supports inclusive.
- 9-position height adjustable headrest.
- Lateral side supports are removable to adjust seat width for plenty of room for the child to grow with the seat.
- No-threaded 5-point harness provides additional support.
- Ultra plush seat pad made with durable premium fabrics and extra foam for maximum comfort. It is removable for machine washing.
- Cup/snack holder, chest clip and soft harness covers.
- Optional footrest.
- Swivel not available with defender car seat.
- Can be converted to Defender Booster.

Accessories:



Footrest (short)



Footrest (long)



Seat wedge



Table



Abduction block



Crotch pad (large)

Note: Only use accessories which have been manufactured to be used with the Defender car seat



Specifications:

Defender (Car Seat)	Measurement
Seat depth	34 cm / 13.4"
Seat width*	21.6 – 30.5 cm / 8.5 – 12"
Seat to head**	60 – 77.5 cm / 23.5 - 30.5"
Shoulder height (child)***	25.4 – 49.5 cm / 10 - 19.5"
Seat tilt	10° wedge
Lower leg length	(18 cm) 28 – 43 cm / (7") 11 - 17"
Overall dimensions (w x h x d)	46.3 x 67.3 x 50.8 cm / 18.25 x 26.5 x 20"
Weight of seat	10 kg / 22 lb
Weight of child	10 – 29.5 kg / 22 - 65 lb
Height of child	68.6 – 144.8 cm / 27 - 57"
Regulation compliance	FMVSS 213 / CMVSS 213

Thomashilfen Defender (Booster)

Defender Booster boasts the same key features as the car seat version, with the addition of a swivel base option (can be installed with or without), and is used for heavier children from 13.6 kg to 50 kg.

Key Features:

- Head, trunk and thighs positioning supports inclusive.
- 9-position height adjustable headrest.
- Lateral side supports are removable to adjust seat width for plenty of room for the child to grow with the seat.
- No-threaded 5-point harness provides additional support in Booster Mode.
- Ultra plush seat pad made with durable premium fabrics and extra foam for maximum comfort t is removable for machine washing.
- Cup/snack holder, chest clip and soft harness covers.
- Optional swivel base and footrest.

Accessories:



Footrest (short)



Footrest (long)



Seat wedge



Table



Abduction block



Crotch pad (large)

Note: Only use accessories which have been manufactured to be used with the Defender car seat



Specifications:

Defender (Booster)	Measurement
Seat depth	34 cm / 13.4"
Seat width*	21.6 – 30.5 cm / 8.5 – 12"
Seat to head**	60 – 77.5 cm / 23.5 - 30.5"
Shoulder height (child)***	25.4 – 49.5 cm / 10 - 19.5"
Seat tilt	10° wedge
Lower leg length	(18 cm) 28 – 43 cm / (7") 11 - 17"
Overall dimensions (w x h x d)	46.3 x 67.3 x 50.8 cm / 18.25 x 26.5 x 20"
Weight of seat	10 kg / 22 lb
Weight of child	13.6 – 50 kg / 30 - 110 lb
Height of child	86.4 – 144.8 cm / 34 - 57"
Regulation compliance	FMVSS 213 / CMVSS 213



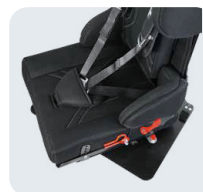
Thomashilfen Hercules Prime

Hercules Prime is a special needs and adaptive booster seat designed for older children and adult users. As a modular positioning booster seat, it can be individually adapted with a large selection of accessories that grow with the user. Hercules Prime offers more support for the head and upper body, for a comfortable, safe position on every journey.

Key Features:

- For children, young people and adults who weigh between 18.1 and 80 kg and whose height is between 130 and 180 cm.
- Back with integrated height adjustment.
- Seat with integrated seat depth adjustment.
- Continuous back angle adjustment with quick release lever.
- Swivel function including swivel lock.
- Tilting function 10° (adjustable in steps).
- Breathable upholstery: head cushion, back cushion, pelvic cushion, seat cushion, crotch pad.
- 5-point belt including shoulder pads.
- Upper belt guide for vehicle's lap and shoulder belt (can be used on the right or left).
- Prepared mounting options for all accessories.
- Removable covers, machine washable.

Standard Functions:



Swivel



Tilting



Latch Seatfix Connector



Folding

Specifications:

Hercules Prime	Measurement
Seat depth	40 - 46 cm / 15.7 - 18.1"
Depth behind crotch strap	24 - 38 cm / 9.5 - 15"
Seat width	40 cm / 15.7"
Seat to head	67 - 80 cm / 26.4 - 31.5"
Back width (seat)	45 cm / 17.7"
Shoulder height (belt guide)	42 - 64 cm / 16.5 - 25.2"
Shoulder width (with shoulder guide)	42 - 51 cm / 16.5 - 20.1"
Back angle (max.)	120°
Seat (with tilting base 10°)	0° / 2.5° / 5° / 7.5° / 10°
Lower leg length (with foot rest)	17 - 43 cm / 6.7 - 16.9"
Height of lateral trunk supports (upper edge)	26 - 36 cm / 10.2 - 14.2"
Distance lateral trunk supports (max.)	35 cm / 13.8"
Max. overall dimensions (w x h x d)	52 x 88 x 43 cm / 20.5 x 34.6 x 16.9"
Min. folded dimensions (w x h x d)	52 x 21 x 73 cm / 20.5 x 8.3 x 28.7"
Weight of seat (basic model)	13.4 kg / 29.5 lbs
Body height user	130 - 180 cm / 51.1 - 70.9"
User weight	18.1 - 80 kg / 40 - 176.4 lbs
Regulation compliance	FMVSS213

Thomashilfen Hercules Prime Accessories:



Stand



Head



Second Belt Guide
(top)



Footrest
(foldable)



Lateral Trunk Supports
(firm)



Lateral Trunk Supports
(swing-away)



Upper Body Guide
(firm)



Upper Body Guide
(swing-away)



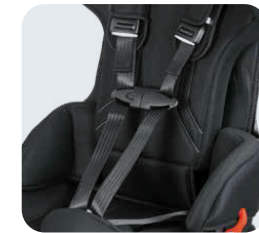
Shoulder Guide



Abduction Block



Leg Guides
(left and right)



Chest Clip



Stabilising Cushion
(for vehicles with
bucket seats)

Note: Only use accessories which have been manufactured to be used with the Hercules Prime car seat



Hernik Hero NXT

A rear and forward facing car seat, the Hero is specifically designed to accommodate the postural support requirements of children with additional needs. It is suitable for installation in most commercially available vehicles that have an ISOFIX connection. The car seat is designed for use on the back seat of a car. With the ISOFIX anchorage system providing a secure attachment to the vehicle guaranteeing easy handling.

Key Features:

- Switch the Hero around for either forward or rear facing. The Hero can be used in both forward and rear-facing direction.
- To support children with limited upper body control, the Hero has a tilt function to adjust the seat angle.
- The Hero is equipped with its own 5-point harness that securely holds your child in place.
- Rotatable by 90°, 180° or 360° for ease of transfers.
- Height adjustable back support and head supports.
- Lateral Supports as standard.

Accessories:



Note: Only use accessories which have been manufactured to be used with the Hernik Hero NXT car seat

Security Tray

Specifications:

Hero	Measurement
Seat Width (knee)	28cm
Seat Width (pelvis)	21cm
Seat Depth	25cm
Back Height	21cm - 34cm
Crown Height	41cm - 53cm
Distance Laterals	12cm - 21cm
Total Height	66cm - 73cm
Total Width	43cm
Total Depth	63cm
Capacity	0kg - 18kg
Seat tilt	inbuilt up to 20°
Regulation compliance	ECE r129

Keeping safe what is
most valuable to you





Hernik Starlight NXT

Starlight is a fully adjustable special purpose car restraint, offering excellent postural support options and an inbuilt tilt function. It is suitable for young children from 9kg, and will grow with the child right up to 36kg.

Key Features:

- Inbuilt adjustment to the rear of the seat allows the backrest height to be increased for growth.
- 5 point supportive harness with shoulder padding and centre pull adjuster.
- Slim lateral supports.
- Swivel base system - (Left turning) to enable turning of the car seat towards the doorway to help with transfers.

Accessories:



Forearm Support Tray



Abduction Pommel

Note: Only use accessories which have been manufactured to be used with the Hernik Starlight NXT car seat

Specifications:

Starlight	Measurement
Seat Width (knee)	35cm
Seat Width (pelvis)	30cm
Seat Depth	26cm
Back Height	27cm - 39cm
Crown Height	51cm - 62cm
Distance Laterals	14cm - 19cm
Height Laterals	17cm - 27cm
Car Seat Weight	8.5kg
Capacity	9-36 kg
Seat tilt	inbuilt up to 20°
Regulation compliance	ECE r44



Hernik Ipai LGT

The Ipai LGT is characterised by a light weight easy-to-use design, providing mild body support and care for children with additional needs. Comes standard equipped with ISOFIX, thoracic supports and a 5-point harness that is padded at the shoulders. As part of the supportive harness a large, stable tee pad guarantees firm support across the child's pelvis.

Key Features:

- Simple height adjustment function allows the backrest 20cm of height range providing greater comfort and safety for the child.
- Easy release ISOFIX attachment makes Ipai LGT a breeze to install in any ISOFIX compatible vehicle. Please note, the vehicle seat belt must be used in conjunction with the car seat.
- Have the peace of mind that your child is kept safe with the Side Impact Protection System that can be unscrewed to secure the car seat against the side of the vehicle door, improving safety in the event of side impact to the vehicle.
- 5 point comfort harness comes as standard.

Accessories:



Ipai LGT Padded Tray Table

Note: Only use accessories which have been manufactured to be used with the Hernik Ipai LGT car seat

Specifications:

Ipai LGT	Measurement
Seat Width (rear)	31 cm
Seat Width (front)	34 cm
Seat Depth	32 cm
Back Height	38-58 cm
Head Support Height	59-79 cm
Lateral Support Height	20-33 cm
Distance between Laterals	14-28 cm
Back Support Recline Angle	85° - 162°
Total Height	67-85 cm
Overall Width	48 cm
Total Depth	39 cm
Total Weight	7 kg
Capacity	36 kg
Seat tilt	20° seat wedge
Regulation compliance	ECE r44



Carrot 3000

Various extension accessories and multi-adjustable features allow for growth and adaptation as a child's needs change over time. The Carrot 3000 caters for safety and the importance of keeping the child in a supported posture for travel.

Key Features:

- Ergonomically designed head support holds the head and protects from side impacts and centrifugal forces.
- Shoulder protector wings: Extendable wings hold and protect the body from side impacts and centrifugal forces.
- Large chest support holds the body securely.
- 2 positions of seat depth adjustment for a better fit.
- Recline function with angle adjustable seat and back support.

Specifications:

Carrot 3000	Measurement
Age Range	3-15 years
User Weight Range	15-36 kg
Seat Width	31 cm
Seat Depth	25-40 cm
Shoulder Height	32-52 cm / 45-67 cm * (*when shoulder protector wings are added)
Seat tilt	20° seat wedge
Foot Support Height	Small = 25-30 cm Medium = 30-40 cm Large = 40-50 cm
Seat Weight	8.7 kg
Regulation compliance	FMVSS213 / ECE r44

Carrot 3000 Accessories:



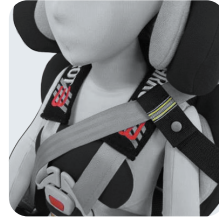
Swivel Base Attachment
Swivel Base Protection Plat



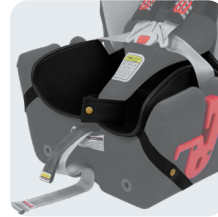
Foot Support



Swivel Base Footplate Adaptor



Seat Belt Holder



Removable Incontinence Cover



Rodded 50mm Seat Depth Pad



100mm Rodded Waterfall Seat Base Extension



50mm Seat Depth Growth Pad



100mm Seat Depth Growth Pad
(only with Waterfall)



Abduction Pad



50mm Back Support Height Extension Infill Pad



100mm Back Support Height Extension Infill Pad



Shoulder Protector Wings



Anti-Escape Anterior Chest Support



Shoulder Strap Retainer



Pen Release Anterior Chest Support



Cross Strap Anterior Chest Support



Tether Strap



ISOFIX Lower Straps



Hinge Lock Belt



Tray / Forearm Support



Tilt Wedge



Firm Contoured Lateral Trunk Support Wedges



Air Mesh Cushion Pad

Note: Only use accessories which have been manufactured to be used with the Carrot 3000 car seat



Carrot XL

Carrot XL caters for safety and the importance of keeping the user in a supported posture for travel. This larger sized car seat is suitable for older children and adult users who will not fit into the Carrot 3000.

Key Features:

- Extendable shoulder protector wings hold and protect the body from side impacts and centrifugal forces.
- Ergonomical large head support.
- Special large anterior chest support design with easy length adjustment to support the shoulders.
- Correct pelvic alignment with comfortable padded hip belt.
- Low profile wide seat base.

Specifications:

Carrot XL	Measurement
Age Range	10 to Adult
User Weight Range	36-75kg
Seat Width	140cm – 175cm
Seat Depth	38 or 42cm
Shoulder Height	48cm
Seat tilt	20° seat wedge
Foot Support Height	32-52 cm / 45-67 cm* (*when shoulder protector wings are added)
Seat Weight	10.5kg
Regulation compliance	FMVSS213 / ECE r44

Carrot XL Accessories:



Tether Strap



ISOFIX Lower Straps



Anti-Escape Anterior Chest Support Options



Tilt Wedge



100mm Back Support Height Extension Infill Pad



Forearm Support Tray



Lateral Trunk Supports



Air Mesh Cushion Pad



Hipbelt (Seat Base)



XL Upgrade Kit For Existing Carrot 3000 Car Seat (Fitted by Medifab or an authorised dealer)



Crotch Belt (requires customisation of seat base)

Note: Only use accessories which have been manufactured to be used with the Carrot XL car seat

A close-up photograph of a young child with curly hair sleeping peacefully in a dark grey car seat. The child's eyes are closed, and their mouth is slightly open. A hand with silver nail polish is gently adjusting the child's chin. The child is wearing a light grey zip-up hoodie. The car seat has a red latch and a white safety label on the side. The background shows the interior of a car, including a window and a door panel.

Enjoy safe travelling

Selecting the right car seat for your family

Astris PME's range of special purpose car seats are developed to accommodate children with special needs, ensuring optimum postural support, comfort and safety.

We work closely with **MACA** (Mobility and Accessibility for Children in Australia Ltd), a not-for-profit organisation dedicated to advancing the rights of children with disabilities and medical conditions to safe and equitable motor vehicle transport.

Each car seat in our range is designed and built to the highest standards, and vigorously tested including having gone through AuSAP, for use in every day life, to help families enjoy safe travelling. For advice and training on installation and safe use of special purpose car seats reach out to Astris PME.

Australian Safety Assessment Program (AuSAP)

The leading independent global assessment program for vehicle restraint systems used by children with disabilities and medical conditions

For training and upskilling, visit the MACA website and look out for training offered by Astris PME.



Visit www.macahub.org to learn more about the important work that MACA do






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