



ThevoTwist

Technical Manual

Thevo – The perception seat for dynamic seating

- Models
- Accessories **Thevo**Twist
- Accessories A chassis

Thevo 
by Thomashilfen



Contents

MODELS

ACCESSORIES **ThevoSeat**

ACCESSORIES **A chassis**

ThevoTwist - The mobility seat

Many children who depend on a seating system are not able to independently adapt their posture background to their changing needs.

The mobility seat with MiS Micro-Stimulation supports them in their posture work and at the same time during controlled trunk movements.

The Thevo mobility seat does now finally offer what therapists deem correct for a long time already: Stability AND movement at the same time.

For more information on the Thevo-mobility seat please visit our website at: www.thevo-division.com

	page
ThevoSeat 1 + 2	3
A chassis with ThevoSeat 1 + 2 (ThevoTwist)	4
Q hi/low base with ThevoSeat1 + 2	5
Z chassis with ThevoSeat 1 + 2	5
Foot straps	6
Calf strap	6
Abduction block	6
Grip rail + Grip rail, strong curved	6
Tray, transparent	7
Side plate, high	7
Seat upholstery, individual red + blue	7
2-point pelvic belt with front pull	7
4-point pelvic belt with front pull	8
Soft pelvic harness	8
Butterfly/chest harness	8
Butterfly/chest harness, flexible	8
Seat waistcoat	9
H-belt, padded	9
Belt bow	9
Impuls sensors	9
Lateral trunk support plane	9
Lateral trunk support flexible with chest belt	10
Moldable aluminium lath	10
Upholstery for impulse sensors	10
Head rest, standard red + blue	10
Head rest, neck support red + blue	10
Head rest, shell red + blue	11
Sleeping bag (summer + winter)	11
Rain cape, grey	11
Frame padding	12
Umbrella	12
Transparent cover with leg blanket	12
Sun and rain cover with leg blanket	13
Sun and rain cover without leg blanket	13
Rain shield for sun and rain cover	13
Pneumatic wheels (surcharge + upgrade kit)	14
Tip assist	14
Transit tie down system	14
Tilt-in-space lever, at push bar	14



ThevoSeat 1

Item code	6688
Seat depth	19 - 30 cm / 7.5 - 11.8"
Seat width	19 - 31 cm / 7.5 - 12.2"
Back height	47 - 68 cm / 18.5 - 26.8"
Lower leg length	17 - 30 cm / 6.7 - 11.8"
Knee angle (adjustable in 15° steps)	90° to 180°
Hip angle	90° to 138°
Foot angle	78° to 100°
Size of foot rest (w x l)	28.5 x 18 cm / 11.2 x 7.1"
Overall dimensions (w x h x l)	38 x 78 x 64 cm / 15 x 30.7 x 25.2"
Folding dimensions (w x h x l)	38 x 33 x 73 cm / 15 x 13 x 28.7"
Carrying capacity	35 kg / 77.2 lb
Weight	8.4 kg / 18.5 lb
Material	upholstery: PES-fabrics, 3-mesh-air-comfort-interlaced yarns seat: aluminum tubular frame, plastic assembly units



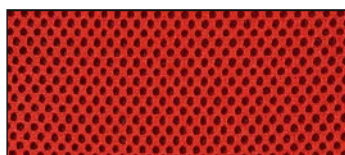
ThevoSeat 2

Item code	6788
Seat depth	27 - 38 cm / 10.6 - 15"
Seat width	25 - 36 cm / 9.8 - 14.2"
Back height	64 - 78 cm / 25.2 - 30.7"
Lower leg length	25 - 36 cm / 9.8 - 14.2"
Knee angle (adjustable in 15° steps)	90° to 180°
Hip angle	90° to 148°
Foot angle	78° to 100°
Size of foot rest (w x l)	33 x 21 cm / 12.9 x 8.2"
Overall dimensions (w x h x l)	45 x 101 x 76 cm / 17.7 x 39.8 x 29.9"
Folding dimensions (w x h x l)	45 x 35 x 91 cm / 17.7 x 13.8 x 35.8"
Carrying capacity	40 kg / 88.2 lb
Weight	9.9 kg / 21.8 lb
Material	upholstery: PES-fabrics, 3-mesh-air-comfort-interlaced yarns seat: aluminum tubular frame, plastic assembly units

Features

Seat unit with BSS (Balance Safety System), flexible suspension elements and wing suspensions, physiological pivots for the hip- and knee joint, breathable seat and back upholstery with reflective safety-seams, fire retardant fabrics, padded pelvic belt, height and angle adjustable flip-up footrest, EASyS click-system for an easy seat installation/removal, continuously adjustable back height via headrest, easily accessible adjustment of hip angle, seat depth and seat width using an Allen key

Colour choice



red



blue

MODELS



A chassis, swivel front wheels	Size 1	Size 2
Item code chassis & seat unit	6201/1 + 6688	6401/1 + 6788
Item code chassis & seat unit incl. transit tie down kit	6202/1 + 6688	6402/1 + 6788
Seat-tilt-in-space	-10° to +45°	-10° to +40°
Seat height	48 cm / 18.9"	54 cm / 21.3"
Overall dimensions (w x h x l)	59 x 104 x 100 cm 23.2 x 40.9 x 39.4"	69.5 x 111 x 111 cm 27.4 x 43.7 x 43.7"
Folding dimensions (w x h x l)	59 x 50 x 88 cm 23.2 x 19.7 x 34.6"	69.5 x 52 x 99 cm 27.4 x 20.5 x 39"
Push bar height	92 - 114 cm 36.2 - 44.9"	92 - 120 cm 36.2 - 47.2"
Wheel size swivel wheels (front)	7.5"	7.5"
Wheel size (rear)	10"	10"
Carrying capacity	35 kg / 77.2 lb	40 kg / 88.2 lb
Weight (including seat unit)	16.6 kg / 36.6 lb	19.1 kg / 42.1 lb
Material	aluminum tubular frame, powder-coated, rim: PP; tire equipment: composition rubber	

Features

- Chassis: lightweight and stable chassis, foldable (compact folded dimensions), lockable seat suspension, continuously adjustable seat tilt-in-space, height adjustable push bar with biocompatible soft grip, foot brake, rim: PP (polypropylene), tire equipment: composition rubber, swivel front wheels (with locking option), removable basket
- Seat unit: see page 3, seat unit reversible (face to face)



A chassis, fixed front wheels	Size 1	Size 2
Item code chassis & seat unit	6200/1 + 6688	6400/1 + 6788
Seat-tilt-in-space	-10° to +45°	-10° to +40°
Seat height	48 cm / 18.9"	54 cm / 21.3"
Overall dimensions (w x h x l)	64 x 104 x 100 cm 25.2 x 40.9 x 39.4"	68 x 111 x 105 cm 26.8 x 43.7 x 41.3"
Folding dimensions (w x h x l)	64 x 50 x 88 cm 25.2 x 19.7 x 34.7"	68 x 52 x 99 cm 26.8 x 20.5 x 39"
Push bar height	92 - 114 cm 36.2 - 44.9"	92 - 120 cm 36.2 - 47.2"
Wheel size	10"	10"
Carrying capacity	35 kg / 77.2 lb	40 kg / 88.2 lb
Weight (including seat unit)	16.7 kg / 36.8 lb	19.5 kg / 43 lb
Material	aluminum tubular frame, powder-coated rim: PP; tire equipment: composition rubber	

Features

- Chassis: lightweight and stable chassis, foldable (compact folded dimensions), lockable seat suspension, continuously adjustable seat tilt-in-space, height adjustable push bar with biocompatible soft grip, foot brake, rim: PP (polypropylene), tire equipment: composition rubber, fixed front wheels, removable basket
- Seat unit: see page 3, seat unit reversible (face to face)



Q hi/low base	Size 1	Size 2
Item code chassis & seat unit	6666/5 + 6688	6666/5 + 6788
Seat-tilt-in-space	-7° bis +31°	-7° bis +31°
Seat height with seat unit	29 - 69 cm 11.4 - 27.2"	29 - 69 cm 11.4 - 27.2"
Overall dimensions (w x h x l)	54 x 59 x 73 cm 21.3 x 23.2 x 28.7"	54 x 59 x 73 cm 21.3 x 23.2 x 28.7"
Folding dimensions (w x h x l)	54 x 24 x 73 cm 21.3 x 9.4 x 28.7"	54 x 24 x 73 cm 21.3 x 9.4 x 28.7"
Adapter height	21 - 60 cm 8.3 - 23.6"	21 - 60 cm 8.3 - 23.6"
Wheel size swivel wheels (front)	100 mm / 4"	100 mm / 4"
Wheel size swivel wheels (rear)	100 mm / 4" (brake)	100 mm / 4" (brake)
Carrying capacity (chassis)	50 kg / 110.2 lb	50 kg / 110.2 lb
Weight (without seat unit)	13.5 kg / 29.7 lb	13.5 kg / 29.7 lb
Material	aluminum tubular frame, powder-coated, PU castors	

Features

Chassis: comfortable indoor base, easy height and seat tilt-in-space adjustment with gas spring (foot engaged), 4 swivel castors, 2 lockable (rear)
 Seat unit: see page 3



Z chassis	Size 1	Size 2
Item code chassis & seat unit	6691/5 + 6688	6691/5 + 6788
Seat tilt-in-space	-15° bis +35°	-15° to +35°
Seat height	39 - 58.5 cm 15.4 - 23"	39 - 58.5 cm 15.4 - 23"
Overall dimensions (w x h x l)	53.5 x (31.5 - 51) x 64 cm 21.1 x (12.4 - 20.1) x 25.2"	53.5 x (31.5 - 51) x 64 cm 21.1 x (12.4 - 20.1) x 25.2"
Wheel size swivel wheels (front/rear)	3"	3"
Carrying capacity (chassis)	40 kg / 88.2 lb	40 kg / 88.2 lb
Weight (without seat unit)	7.2 kg / 15.9 lb	7.2 kg / 15.9 lb
Material	aluminum tubular frame, powder-coated, PU castors	

Features

Chassis: lightweight and versatile indoor base, mechanical height and seat tilt-in-space adjustment, 4 swivel castors, 2 lockable (rear)
 Seat unit: see page 3

ACCESSORIES



Foot straps	Size 1	Size 2
Item code	6648/1	6648/1
Belt length	86 cm / 33.9"	86 cm / 33.9"



Calf strap	Size 1	Size 2
Item code	6381	standard
Size (w x h x d)	30.5 x 7.5 x 0.5 cm 12 x 3 x 0.2"	-



Abduction block	Size 1	Size 2
Item code	6620/5	6720/5
Size (w x h x d)	6 x 9 x 10 cm 2.4 x 3.5 x 3.9"	7 x 10.5 x 11 cm 2.8 x 4.1 x 4.3"



Grip rail	Size 1	Size 2
Item code	6372	6572
Height to seating surface	11.5 / 14 / 16.5 cm 4.5 / 5.5 / 6.5"	17 / 19 / 22 cm 6.7 / 7.5 / 8.7"
Width (inner dimensions)	34 cm / 13.4"	38 cm / 15"

Grip rail, strong curved	Size 1
Item code	6372/1
Height to seating surface	10.5 / 13 / 15.5 cm 4.1 / 5.1 / 6.1"
Width (inner dimensions)	34 cm / 13.4"



Tray, transparent	Size 1	Size 2
Item code	6628/1	6728/1
Size (w x d)	56 x 33.2 cm 22 x 13.1"	60 x 36.2 cm 23.6 x 14.3"
Height to seat surface	15 - 22 cm 5.9 - 8.7"	15 - 22 cm 5.9 - 8.7"
Inner edge height	2.5 cm / 1"	2.5 cm / 1"
Angle adjustment	approx. 27°	approx. 27°
Depth adjustment range	16 cm / 6.3"	19 cm / 7.5"
Belly cut-out (w x d)	41 x 14 cm 16.1 x 5.5"	45.5 x 17.5 cm 17.9 x 6.9"
Material thickness	8 mm / 0.3"	8 mm / 0.3"
Colour tray plate	transparent / uncoloured	transparent / uncoloured



Side plate, high	Size 1	Size 2
Item code	6386	6586
Size of plate (w x h)	22 x 11 cm 8.7 x 4.3"	29 x 14 cm 11.4 x 5.5"
Adjustment range	6.5 cm / 2.6"	6.5 cm / 2.6"



Seat upholstery, individual	Size 1	Size 2
Item code (red)	6376/1	6576/1
Item code (blue)	6376/2	6576/2



2-point pelvic belt with Front-Pull	Size 1	Size 2
Item code	8420	8470
Size of pad (w x l)	15 x 5 cm 5.9 x 2"	17 x 6 cm 6.7 x 2.4"
Belt length	120 cm / 47.2"	120 cm / 47.2"

ACCESSORIES



4-point pelvic belt with Front-Pull

Size 1

Size 2

Item code	8421	8471
Size of pad (w x l)	15 x 5 cm 5.9 x 2"	17 x 6 cm 6.7 x 2.4"
Rear belt length	120 cm / 47.2"	120 cm / 47.2"
Front belt length	50 cm / 19.7"	50 cm / 19.7"

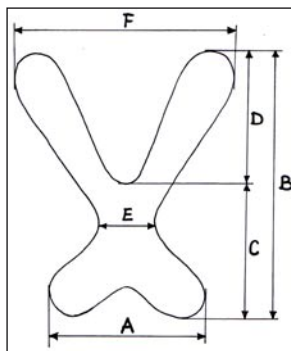


Soft pelvic harness

Size 1

Size 2

Item code	6614/51	6714/51
Width cover surface rear	21 cm / 8.3"	26.5 cm / 10.4"
Belt length	45 cm / 17.7"	45 cm / 17.7"



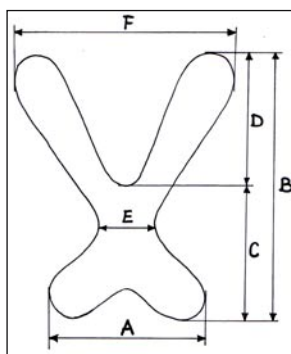
Butterfly/chest harness

Size S

Size M

Size L

Artikel-Nr.	6616/51	6617/51	6717/51
A	18.5 cm / 7.3"	25 cm / 9.8"	26.5 cm / 10.4"
B	31 cm / 12.2"	33.5 cm / 13.2"	45 cm / 17.7"
C	15 cm / 5.9"	18.5 cm / 7.3"	23 cm / 9.1"
D	16 cm / 6.3"	17 cm / 6.7"	23.5 cm / 9.3"
E	11.5 cm / 4.5"	10.5 cm / 4.1"	12 cm / 4.7"
F	17.7 cm / 7"	21.5 cm / 8.5"	25 cm / 9.8"



Butterfly/chest harness, Size S flexible, neoprene

Size M

Item code	6385/2	6585/2
A	12 cm / 4.7"	18 cm / 7.1"
B	21 cm / 8.3"	31 cm / 12.2"
C	11.5 cm / 4.5"	13.5 cm / 5.3"
D	9.5 cm / 3.7"	17.5 cm / 6.9"
E	5 cm / 2"	10 cm / 3.9"
F	21 cm / 8.3"	25 cm / 9.8"



Seat waistcoat	Size S	Size M	Size L
Item code	6631/51	6632/51	66731/51
Size of pad (w x l)	29 x 29 cm 11.4 x 11.4"	36 x 37 cm 14.2 x 14.6"	41 x 44 cm 16.1 x 17.3"
Belt length, top	90 cm / 35.4"	90 cm / 35.4"	90 cm / 35.4"



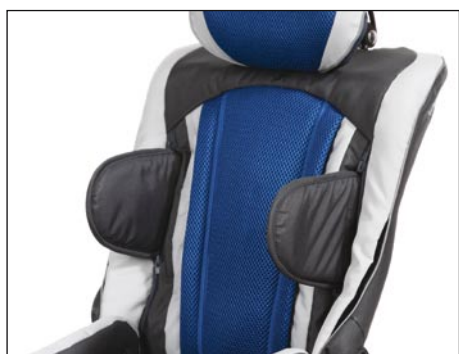
H-belt, padded	Size 1	Size 2
Item code	6629/5	6629/5
Size of shoulder pad (w x l)	5 x 15 cm 2 x 5.9"	5 x 15 cm 2 x 5.9"
Shoulder belt length	90 cm / 35.4"	90 cm / 35.4"
Pelvic belt length	90 cm / 35.4"	90 cm / 35.4"



Belt bow	Size 1	Size 2
Item code	6371/2	6571/2
Size (w x h x d)	20 x 1 x 6.5 cm 7.9 x 0.4 x 2.6"	24 x 1 x 6.5 cm 9.5 x 0.4 x 2.6"



Impulse sensors	Size 1	Size 2
Item code	6383	6583
Size (h x d)	10 x 11 cm 3.9 x 4.3"	10 x 16.5 cm 3.9 x 6.5"



Lateral trunk support, plane	Size 1	Size 2
Item code	6377/1	6577/1
Size (h x d)	13 x 15.5 cm 5.1 x 6.1"	16 x 17.5 cm 6.3 x 6.9"

ACCESSORIES



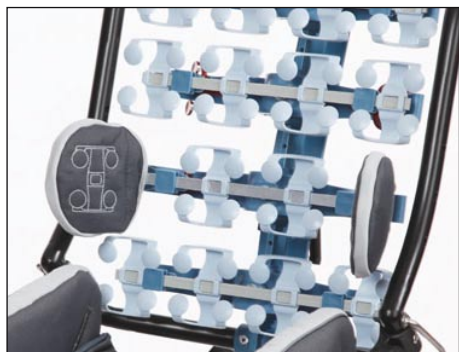
Lateral trunk support, flexible with chest belt

	Size 1	Size 2
Item code	6596	6596
Size (h x d)	10 x 22 cm 3.9 x 8.7"	10 x 22 cm 3.9 x 8.7"



Moldable aluminum lath

	Size 1	Size 2
Item code	6384	6584
Length	40 cm / 15.8"	50 cm / 19.7"
Wing suspensions	4 pcs.	6 pcs.



Upholstery for impulse sensors

	Size 1	Size 2
Item code	500512042	500512043
Size (h x d)	10 x 11 cm 3.9 x 4.3"	10 x 16.5 cm 3.9 x 6.5"

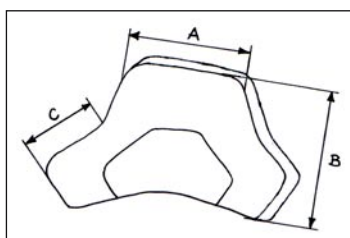


Headrest, standard

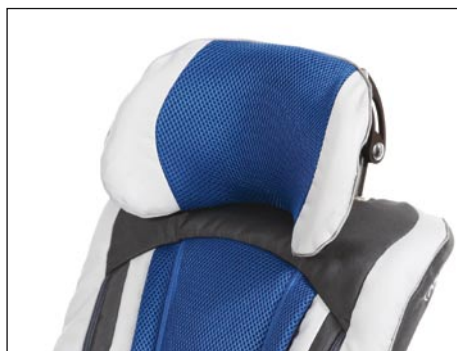
	Size 1	Size 2
Item code (red)	6387/1	6587/1
Item code (blue)	6387/0	6587/0
Size (w x l)	23 x 12 cm 9.0 x 4.7"	28 x 15 cm 11.0 x 5.9"



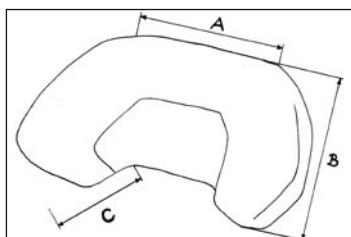
Headrest, neck support



Item code (red)	6598/1
Item code (blue)	6598/0
A	12 cm / 4.7"
B	14 cm / 5.5"
C	9 cm / 3.5"



Headrest, shell



Item code (red)	6599/1
Item code (blue)	6599/0
A	16 cm / 6.3"
B	15.5 cm / 6.1"
C	13.5 cm / 5.3"



Sleeping bag, winter

Size 1

Size 2

Item code	6374	6574
Bottom part of leg blanket (w x l)	35 x (68 - 80) cm 13.8 x (26.8 - 31.5)"	40 x (90 - 104) cm 15.7 x (35.4 - 40.9)"
Leg blanket (lower leg length)	31 cm / 12.2"	43 cm / 16.9"

Sleeping bag, summer

Size 1

Size 2

Item code	6373	6573
Bottom part of leg blanket (w x l)	35 x (68 - 80) cm 13.8 x (26.8 - 31.5)"	40 x (90 - 104) cm 15.7 x (35.4 - 40.9)"
Leg blanket (lower leg length)	31 cm / 12.2"	43 cm / 16.9"



Rain cape, grey

Size 1

Size 2

Item code	6340/4	6540/4
Length of blanket (without hood)	125 cm / 49.2"	140 cm / 55.1"

ACCESSORIES



Frame padding	Size 1	Size 2
Item code	6622/5	6622/5
Outer dimensions (w x h)	(10 - 15) x 45 cm (3.9 - 5.9) x 17.7"	(10 - 15) x 45 cm (3.9 - 5.9) x 17.7"



Umbrella	Size 1	Size 2
Item code	6594	6594
Diameter Ø	65 cm / 25.6"	65 cm / 25.6"
Height	75 cm / 29.5"	75 cm / 29.5"



Transparent cover with leg blanket	Size 1	Size 2
Item code	6638/1	6638/1
Hood (w x h, inner dimension)	43 x 51 cm 16.9 x 20.1"	43 x 51 cm 16.9 x 20.1"
Size leg blanket (w x l)	43 x 100 cm 16.9 x 39.4"	43 x 100 cm 16.9 x 39.4"

ACCESSORIES A CHASSIS



Sun and rain cover with leg blanket	Size 1	Size 2
Item code	6378/1	6378/1
Hood (w x h, inner dimension)	43 x 51 cm 16.9 x 20.1"	43 x 51 cm 16.9 x 20.1"
Hood pocket (w x h x d)	24 x 28 x 5 cm 9.4 x 11 x 2"	24 x 28 x 5 cm 9.4 x 11 x 2"
Size leg blanket (w x l)	43 x 100 cm 16.9 x 39.4"	43 x 100 cm 16.9 x 39.4"



Sun and rain cover without leg blanket	Size 1	Size 2
Item code	6378/11	6378/11
Hood (w x h, inner dimension)	43 x 51 cm 16.9 x 20.1"	43 x 51 cm 16.9 x 20.1"
Hood pocket (w x h x d)	24 x 28 x 5 cm 9.4 x 11 x 2"	24 x 28 x 5 cm 9.4 x 11 x 2"



Rainshield for sun and rain cover	Size 1	Size 2
Item code	6739	6739
Hood (w x h, inner dimension)	43 x 51 cm 16.9 x 20.1"	43 x 51 cm 16.9 x 20.1"
Opening (w x l)	33 x 34 cm 12.9 x 13.4"	33 x 34 cm 12.9 x 13.4"
Size leg blanket (w x l)	60 x 120 cm 23.6 x 47.2"	60x 120 cm 23.6 x 47.2"

NOTES



Pneumatic wheels

Item code surcharge	6646
Item code upgrade kit	6647
Wheel size swivel wheels (front)	7.5"
Wheel size (rear)	10"



Tip-assist

Item code	6750/1
Tread (w x l)	4 x 8 cm / 1.6 x 3.1"



Transit tie down system

Item code	970067839
Norm	ISO 7176/19 and ANSI/RESNA WC/vol. 1 - Section 19 6/22/99 Draft
Hint	restraint system not included in delivery For further information please call: +49 (0) 47 61 / 8 86-68 or -63



Tilt-in space lever at push bar

Item code	6749/1
Hint	available for A chassis constructed from Dec. 06 on

[illegible]



Member of the International
Support Association for the
Rehabilitation of Children and Youths e.V.



Walkmühlenstraße 1 · D - 27432 Bremervörde · Germany
Phone: +49 (0)47 61 / 886-68 or -63 · Fax: 047 61 / 886-19
www.thomashilfen.com