



# Wheelchairs and accessories



## **Hantverksdesign & rehabiliteringsprodukter AB**

Hantverksdesign & Rehabiliteringsprodukter AB is a family-owned business based in Lidingö, near Stockholm. We have worked closely with the market to develop, manufacture and market wheelchairs for more than 40 years. The skills, experience and ideas which we have built up over the years can be seen in today's functional range of products.

### **More than just a business**

In an age when business demands and the need to improve efficiency play an increasingly important role, it's easy for the needs of users to fall by the wayside. We, however, believe that the user comes first and our products should be the best products available from the user's point of view. Our responsibility extends beyond the point when a sale is made, continuing right up until the day when the user finally stops using the product.

### **Made in Sweden**

We are one of the few businesses which currently develops, manufactures and markets wheelchairs in Sweden. This gives us close control over all the processes involved, from receiving materials of the right specification, right up to when the finished product leaves our premises. In other words, we have complete knowledge of our products. We believe that this means security and peace of mind for you, the customer, as well as the ability to turn ideas into new products in the longer term.

Hantverksdesign is quality certified in accordance with ISO 9001.

### **Our environment**

Hantverksdesign is run from its own modern premises, taking environmental issues into consideration. For example, we heat our premises using surplus energy which we recover from the manufacturing process. Almost all our partners are located in Sweden, many of them close to our own operations. This means short transportation distances, bringing direct environmental benefits by keeping transport emissions to a minimum. We are environmentally certified, and aim to reduce our environmental impact year on year.

Hantverksdesign is environmentally certified in accordance with ISO 14001.

### **What makes us unique?**

We produce excellent products, our employees are highly skilled and we offer unique specialist solutions. Our expertise, experience and technical know-how mean that you can feel secure using these solutions.

We offer the widest range of accessories available, from simple products to advanced solutions. We aim to offer a range of accessories which includes specialist solutions, allowing us to offer a product which exactly meets your particular needs.

A family business is like a member of the family. We ensure that we do the right thing, we are proud of what we do, and we aim to meet the needs of future generations. Quite simply, the advantages of a family business should mean customer benefits. We have been running our business for 40 years and, if you appreciate and value what we do, we can continue to operate for at least another 40 years. We can only achieve this if we ensure customer satisfaction and if you like what we do.

# Standard equipment



1. Seat and back cushions are easy to remove. The seat plate can be used as a flat seat, and the back cushion is easy to change from the standard back to the Form back or tension adjustable Flexi back system.
2. The push bar is height-adjustable.
3. Separate brake handles for disc brakes that have a driving and parking function.
4. Thoracic (trunk) support attachments included as standard.
5. Quick release wheels with puncture proof tyres on all models.
6. Extendable tipping protection/bar.
7. Parking brake (only on model HD 500).
8. Puncture-proof 8" castors.
9. Flip-up foot plates with angle and length adjustment options.
10. Height- and depth-adjustable calf supports.
11. Detachable angle-adjustable legrests with length compensation.
12. Seat depth is adjustable.
13. Height- and length-adjustable armrests with built-in table attachment.
14. Angle-adjustable seat unit.
15. Angle-adjustable backrest with gas spring. The backrest is also height-adjustable.
16. Seat frame adjustable in height and depth.

# Adult wheelchairs



HD 650 16" wheels



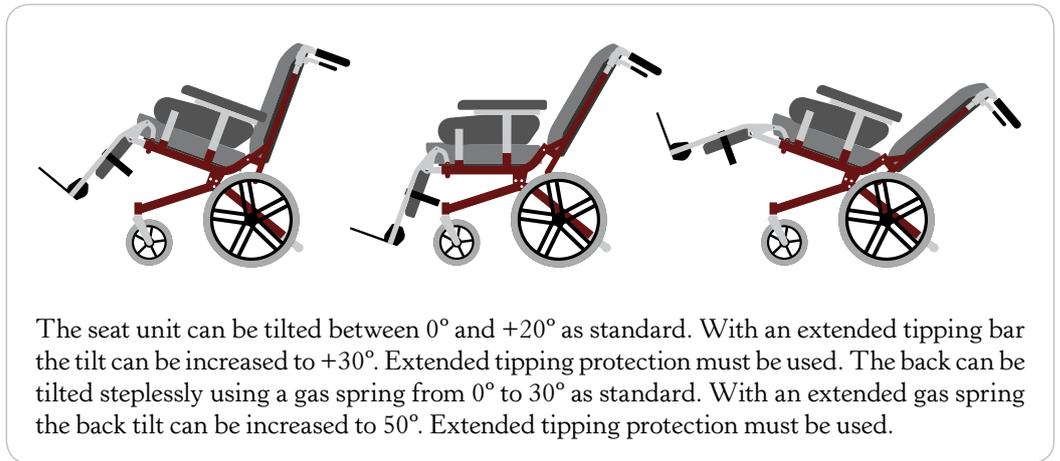
HD 500 24" wheels



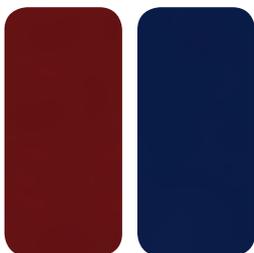
HD 600 12" wheels



The control unit for the seat and backrest functions is on the back of the backrest. Easily accessible for the attendant.



The seat unit can be tilted between 0° and +20° as standard. With an extended tipping bar the tilt can be increased to +30°. Extended tipping protection must be used. The back can be tilted steplessly using a gas spring from 0° to 30° as standard. With an extended gas spring the back tilt can be increased to 50°. Extended tipping protection must be used.



The frame of the adult chairs is lacquered red or blue; the legrest components are lacquered dark grey, armrest and accessories in aluminium.

The adult wheelchairs come in three seat widths, 38, 45 and 52 cm (Bumblebee seat width 52 cm see page 6-7). The seat width can be increased with widening adaptors. Seat widening adaptor +5 cm can be used on all models, when used on HD 500 model wheel widening adaptor must be used as well. Seat widening adaptor +10 cm can be used on HD 600 and HD 650 models.



Seat and back cushions have blue fabric covers with a dot pattern, option black Dartex. The side panel and calf pads are covered with dark grey vinyl, option black Dartex. All cushion covers and accessory covers are removable and washable at 60°C.



Seat widening adaptor +5 cm.

Seat widening adaptor +10 cm.



Flexi backrest system tension back, with flexi back cushion.



Standard back cushion.  
Option cushion + 10 cm and + 20 cm in height.



Contoured back cushion.  
Option cushion + 10 cm in height.

The back is height-adjustable using a moveable brace around the backrest tube: upwards 3 cm or downwards 3 cm. With Flexi back system the back is adjustable separately 6 cm or in total 12 cm in combination with the attachment on the wheelchair.



Seat depth is adjustable between 46 and 55 cm. The adjustment is made using a simple manoeuvre on the rear edge of the seat. Option extended seat depth + 5 cm.



Seat cushion original standard textile.



Seat cushion original incontinent protected.



Seat cushion Step2 incontinent protected, Dartex.

(Seat cushion original with Dartex, not shown).



The adult wheelchairs come as standard with swing away, removable and angle adjustable legrest. The angle of the legrest can be adjusted in steps from about 105° to 140° knee angle. Separate calf pads and footplates as standard. See accessories for more options.



Seat height can be lowered - 5 cm on HD 500 model with alternative wheels 20" and 5" castors, enables the user to touch the floor with his or her feet.

Seat height can be increased +5 cm using seat height adaptor. Suitable for tall users.





# BUMBLEBEE



Bumblebee HD 650 16" wheels



Bumblebee HD 500 24" wheels



The control unit for the seat and backrest functions is on the back of the backrest. Easily accessible for the attendant.



The seat unit can be tilted between 0° and +20° as standard. With an extended tipping bar the tilt can be increased to +30°. Extended tipping protection must be used. The back can be tilted steplessly using a gas spring from 0° to 30° as standard. With an extended gas spring the back tilt can be increased to 50°. Extended tipping protection must be used.



The frame of the Bumblebee is lacquered copper metallic; the legrest components are lacquered black, armrest and accessories in aluminium.

The Bumblebee comes in a seat width 52 cm. The seat width can be increased with widening adaptors. Seat widening adaptor +5 cm can be used on both models, when used on HD 500 model wheel widening adaptor must be used as well. Seat widening adaptor +10 cm can be used on the Bumblebee HD 650.



Seat and back cushions have black fabric covers, option black Dartex. The side panel and calf pads are covered with black Dartex. All cushion covers and accessory covers are removable and washable at 60°C.



Seat widening adaptor +5 cm. Seat widening adaptor +10 cm.

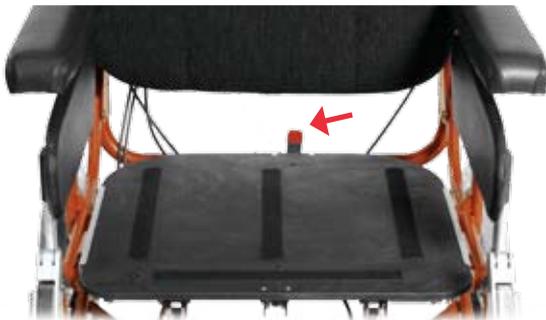


The Bumblebee comes with our tension back, Flexi and Flexi back cushion as standard. The Flexi back cushion is flat for maximum width.

The back is height-adjustable using a moveable brace around the backrest tube: upwards 3 cm or downwards 2 cm. With Flexi back system the back is adjustable separately 6 cm or in total 11 cm in combination with the attachment on the wheelchair.



Seat depth is adjustable between 51 and 57 cm. The adjustment is made using a simple manoeuvre on the rear edge of the seat. Option seat frame decreased seat depth – 5 cm.



Seat cushion original with standard black textile.



Seat cushion original with incontinent protection, black Dartex.

The Bumblebee wheelchairs come as standard with angle adjustable legrest. The angle of the legrest can be adjusted in steps from about 105° to 140° knee angle. Complete calf pad and footplate as standard. See accessories for more options.



Seat height can be lowered -5 cm on the Bumblebee HD 500 model with alternative wheels 20" and 5" castors, enables the user to touch the floor with his or her feet.

# Children's wheelchairs



HD 500 20" wheels



HD 600 12" wheels



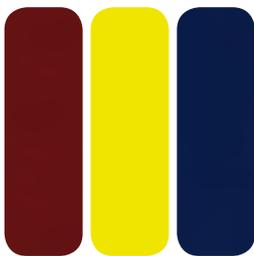
HD 800 4 x 12" wheels



The control unit for the seat and backrest functions is on the back of the backrest. Easily accessible for the attendant.



The seat unit can be tilted between 0° and +20° as standard.  
The back can be tilted steplessly using a gas spring from -5° to 25° as standard.



The frame of the children's chairs is lacquered yellow, red or blue; the legrest components are lacquered dark grey, armrest and accessories in aluminium.

The Children's wheelchairs comes in seat width 38 cm. The seat width can be increased with widening adaptors. Seat widening adaptor +5 cm can be used on all models. The seat width can be decreased 6 cm using space cushions.



Seat and back cushions have blue fabric covers with a colourful pattern. The side panel and calf pads are covered with dark grey vinyl. All cushion covers and accessory covers are removable and washable at 60°C.



Seat widening adaptor +5 cm.



Space cushions – 6 cm.



Standard back cushion.



Flexi backrest system tension back, with flexi back cushion (notice adult Flexi seat width 38 cm).

The back is height-adjustable using a moveable brace around the backrest tube: upwards 3 cm or downwards 3 cm. With Flexi back system the back is adjustable separately 6 cm or in total 12 cm in combination with the attachment on the wheelchair.

Seat depth is adjustable between 34 and 40 cm. The adjustment is made using a simple manoeuvre underneath the seat plate.



Seat cushion original standard textile.



Seat cushion original incontinent protected.



The Children's wheelchairs come as standard with swing away, removable and angle adjustable legrest. The angle of the legrest can be adjusted in steps from about 105° to 140° knee angle. Separate calf pads and footplates as standard. See accessories for more options.

## Back Flexi width +7 cm

All models except for the Bumblebee can be equipped with a + 7 cm wide tension adjustable back, Flexi. Example; Wheelchairs seat width 45 cm can be equipped with a 52 cm wide Flexi back and wheelchairs seat width 38 cm can be equipped with a 45 cm wide Flexi back.



## Legrest



Standard legrest, swing away, removable and angle adjustable between 105-140°.



Legrest 90°, swing away, removable and angle adjustable between 90-130°. To be combined with castor adapters and 5" castors.



Straight legrest enables a higher position for the foot by approximately 20 cm.



Amputee legrest adjustable in height, length and angle.

## Footrest



Footrest standard adjustable in height and angle.



Footrest lengthened + 10 cm.



Footrest shortened – 8 cm.



Complete flip-up footplate.



Padded footbox.

# Headrests and back extenders



Headrest height, angle and depth adjustable.



Headrest small lateral, height, angle and depth adjustable.



Back extenders increase the backrest height by 24 cm.



One or two side supports can be added to the headrest to increase stability.



One or two side supports can be added to the small headrest to increase stability.

## Thoracic (trunk) supports and shoulder support



Thoracic (trunk) support small thin with U bar.



Thoracic (trunk) support small with U bar.



Thoracic (trunk) support large with U bar.



Thoracic (trunk) support small thin with L bar.



Thoracic (trunk) support small with L bar.



Thoracic (trunk) support large with L bar.



Thoracic (trunk) support angle adjustable long for side and front support.



Thoracic (trunk) support angle adjustable short for side and front support.



Shoulder support provide support for the upper arm.

## Space cushions



Soft Space cushions  
Reduce the seat width 3 cm (also child version).



Firm Space cushion  
Reduce the seat width 1,5 cm.

## Pommels



Pommel large adjustable in height and depth.



Pommel small adjustable in height and depth.



Pommel large moved forward.



Pommel small moved forward.

## Tables



Wooden table with a recess for the thoracic region (trunk).



Wooden table, padded with a recess for the thoracic region (trunk).



Perspex table with a recess for the thoracic region (trunk).

## Push bars



Push bar standard gives the attendant a variety of driving positions. Option extended + 12 cm.



Push bar ergonomic gives the attendant a better driving position when the wheelchair seat and back tilt/recline is used.



Push bar depth + 8 cm, for better gait space when powered add on systems are used.

Separate push handles.



## Belts



Belt 1 piece, fastened on the backside of the wheelchair or underneath the seat.



Belt divided, for adjusting seating position in the wheelchair.  
Upholstery for Belt divided.



Fastening kit standard 40mm to be combined with Belt divided.



Fastening kit front 40mm to be combined with Belt divided .

## Other



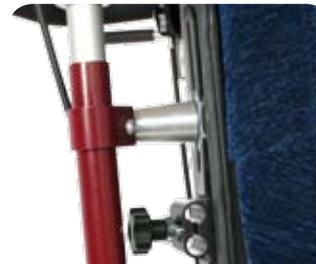
Seat height can be increased +5 cm using seat height adaptor. Suitable for tall users.



Lowering the seat height on model HD 500 (does not apply on children's models) with alternative wheels 20" and 5" castors.



Seat widening adaptors 5 cm and 10 cm ( Model HD 500 only 5 cm).



Back spacers 2,5 och 4 cm for reduction of the seat depth.



Transport attachments enable the wheelchair to be securely fastened during transport.



Hemiplegic armrest for right or left side adjustable in width, height, depth and rotation.



Spoke guards prevent finger injuries.



Bag hooks for storage of light luggage.

# What fits?

Alternative equipment / Accessories	Adult						Bumble bee		Children		
	500	600	650	500	600	650	500	650	500	600	800
Seat width	38	38	38	45	45	45	52	52	38	38	38
Seat cushion, original	*	*	*	*	*	*			*	*	*
Seat cushion, Bumblebee							*	*			
Seat cushion, Step2	*	*	*	*	*	*					
Back plate with standard cushion	*	*	*	*	*	*			*	*	*
Back plate with contoured cushion	*	*	*	*	*	*					
Back plate with standard cushion +10 cm or +20 cm	*	*	*	*	*	*					
Back plate with contoured cushion + 10 cm	*	*	*	*	*	*					
Flexi tension back and Flexi back cushion	*	*	*	*	*	*	*	*	*	*	*
Flexi back system, width +7 cm	*	*	*	*	*	*			*	*	*
Legrests standard, swing away	*	*	*	*	*	*	*	*	*	*	*
Legrests straight, swing away	*	*	*	*	*	*	*	*	*	*	*
Legrests 90°, swing away	*	*	*	*	*	*			*	*	*
Legrests amputee, swing away	*	*	*	*	*	*	*	*			
Footplates separate, standard	*	*	*	*	*	*	*	*	*	*	*
Footplates separate, lengthened + 10 cm (children + 8 cm)	*	*	*	*	*	*	*	*	*	*	*
Footplates separate, shortened – 8 cm	*	*	*	*	*	*	*	*	*	*	*
Calf supports separate	*	*	*	*	*	*	*	*	*	*	*
Calf support complete	*	*	*	*	*	*	*	*	*	*	*
Footplate complete, standard	*	*	*	*	*	*	*	*	*	*	*
Footplate complete, lengthened + 10 cm (children + 8 cm)	*	*	*	*	*	*	*	*	*	*	*
Footplate complete, shortened – 8 cm	*	*	*	*	*	*	*	*	*	*	*
Padded footbox, standard	*	*	*	*	*	*	*	*	*	*	*
Padded footbox, lengthened + 10 cm	*	*	*	*	*	*	*	*	*	*	*
Padded footbox, shortened – 8 cm	*	*	*	*	*	*	*	*	*	*	*
Push bar, standard	*	*	*	*	*	*	*	*	*	*	*
Push bar, extended + 12 cm	*	*	*	*	*	*	*	*	*	*	*
Push bar, depth + 8 cm	*	*	*	*	*	*	*	*	*	*	*
Push bar, ergonomic	*	*	*	*	*	*	*	*	*	*	*
Push handles, separate	*	*	*	*	*	*	*	*	*	*	*
Seat widening adaptors + 5 cm	*	*	*	*	*	*	*	*	*	*	*
Seat widening adaptors + 10 cm		*	*	*	*	*	*	*			
Wheel widening adaptor + 5 cm	*			*			*		*		
Armrest, hemiplegic	*	*	*	*	*	*	*	*			
Tipping protection/bar, extended	*	*	*	*	*	*	*	*	*	*	*
Seat height, lowered – 5 cm	*			*			*				
Seat height, increased (not in comb. with increased seat angle)	*	*	*	*	*	*					
Seat angle, increased + 10°	*	*	*	*	*	*		*			
Backrest angle, increased + 20°	*	*	*	*	*	*	*	*			
Back spacers, 2,5 cm (shortened seat depth)	*	*	*	*	*	*					
Back spacers, 4 cm (shortened seat depth)	*	*	*	*	*	*					
Head rest / Head rest small, with or without side supports	*	*	*	*	*	*	*	*	*	*	*
Back extender	*	*	*	*	*	*			*	*	*
Thoracic (trunk) support, angle adjustable, short / long	*	*	*	*	*	*	*	*	*	*	*
Thoracic (trunk) support, others	*	*	*	*	*	*	*	*	*	*	*
Shoulder support	*	*	*	*	*	*	*	*	*	*	*
Pommels	*	*	*	*	*	*	*	*	*	*	*
Table, wood / wood with padding	*	*	*	*	*	*	*	*	*	*	*
Table, Perspex	*	*	*	*	*	*	*	*	*	*	*
Belt, 1 piece	*	*	*	*	*	*	*	*	*	*	*
Belt, divided	*	*	*	*	*	*	*	*	*	*	*
Fastening kit, standard / front	*	*	*	*	*	*	*	*	*	*	*
Bag hooks	*	*	*	*	*	*	*	*	*	*	*
Transport attachments	*	*	*	*	*	*	*	*	*	*	*
Space cushions	*	*	*	*	*	*	*	*	*	*	*
Spoke guards	*			*			*		*		
Electric powered seat-, backrest- and legrest angle	*	*	*	*	*	*					

Alternative equipment/accessories above can change.

# Dimensions

**NB! These only apply to wheelchairs with standard equipment.  
All measurements may vary depending on the equipment.**

	Adult						Bumble bee		Children		
Model	500	600	650	500	600	650	500	650	500	600	800
Seat width	38	38	38	45	45	45	52	52	38	38	38
Ready for use, complete with cushions											
Total length with legrests	115	108	108	115	108	108	115	108	99	94	99
Total length without legrests	88	81	81	88	81	81	88	82	74	69	77
Total width	61	57	57	68	64	64	74	70	61	57	57
Total height	103	102	102	103	102	102	101	103	102	102	101
Height, backrest folded forwards	83	82	82	83	82	82	78	78	80	80	79
Weight (kg)	28	26	26	29	27	27	34,5	34	25	23	23
Seat angle (degrees)	0-20	0-20	0-20	0-20	0-20	0-20	0-20	0-20	0-20	0-20	0-20
Seat depth 4 positions (Bumblebee and children, 3 positions)	46-55	46-55	46-55	46-55	46-55	46-55	51-57	51-57	34-40	34-40	34-40
Seat width	38	38	38	45	45	45	52	52	38	38	38
Sitting height, sitting area	49	49	49	49	49	49	50	50	47	47	46
Sitting height, front edge	52	52	52	52	52	52	52	52	50	50	49
Backrest angle (degrees)	0-30	0-30	0-30	0-30	0-30	0-30	0-30	0-30	-5-25	-5-5	-5-25
Backrest height	52-59	52-59	52-59	52-59	52-59	52-59	51-63	51-63	46-53	46-53	46-53
Backrest width	35	35	35	42	42	42	52	52	35	35	35
Distance footrest-seat	40-54	40-54	40-54	40-54	40-54	40-54	40-54	40-54	33-41	33-41	33-41
Footrest-legrest angle (degrees)	85-115	85-115	85-115	85-115	85-115	85-115	85-115	85-115	85-115	85-115	85-115
Legrest angle from seat (degrees)	105-140	105-140	105-140	105-140	105-140	105-140	105-140	105-140	105-140	105-140	105-140
Armrest height	20-28	20-28	20-28	20-28	20-28	20-28	20-28	20-28	15-21	15-21	15-21
Turning area	126	123	116	128	125	118	130	122	107	103	-
Transport dimensions without armrest, legrest, cushion											
Length	92	83	83	92	83	83	88	80	91	83	83
Width	61	57	57	68	64	64	74	70	61	57	57
Height	70	70	70	70	70	70	73	73	70	70	70
Weight (kg)	20	18	18	21	19	19	26	25,5	19	17	17
The max. user weight is 135 kg, Bumblebee 160 kg.											

Dimensions are in cm.



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