

FREEWAY



SHOWER CHAIR MANUAL

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Introduction

Freeway Shower Chairs - Overview



The Freeway range of Shower chairs is the leading range of shower chairs in Great Britain.

Over 15 years this configurable range has built to have a vast variety of options and accessories. This choice, as well as adaptations on offer means that a solution is available for every problem.

This manual is designed to assist the specifier in making the right choices for the end user where our standard catalogue does not provide the obvious answer.

Where the information required is not contained in this manual, then please contact our offices for assistance – you will be able to discuss your requirements at the end of the telephone.

Freeway is committed to maintaining its position as the premier problem solver and always wishes to hear from users or specifiers about ways in which we can improve our service

NOTE: All Freeway chairs are manufactured to the highest standards. This Manual is designed to assist shower chair specifiers.

It aims to

- make them aware of the possibilities of design
- direct them to the measurements that need to be taken at the time of survey
- advise them of ways in which particular conditions of users have been treated in the past

Risk Assessment

Before specifying any standard or non standard Freeway chair, a risk assessment should be carried out covering any special characteristics and/or needs of the user and carer. FREEWAY does not purport to have any professional medical or clinical expertise and all recommendations or suggestions made by Freeway of any of its staff are subject to the understanding that the responsibility for suitability for the user of the chair specified, lies solely with the healthcare professional calling for the assessment, whether or not present at that assessment.

Weight Distribution and user movement are two of the major factors to be considered in any risk assessment

All Freeway chairs are manufactured to be safe for use by persons of standard weight distribution up to the safe working load of that chair. Where an intended user does not have normal weight distribution, and/or is liable to sudden or unusual movement, the stability of the chair will be affected and the stated safe working load will not apply and consideration must be given to how else stability may be affected.

All Freeway agents or representatives are advised to make this clear to those issuing orders and instructions to them

NOTE: Each non standard component is manufactured for a specific client and chair configuration. Where using a pre-owned non standard part, particular attention should be paid to suitability and compatibility with other component parts to be used. For example, a backrest with a 10 degree recline should not be used with a standard unmodified frame.

General Tips on Specifying a Shower Chair

Every person requiring a shower toilet commode chair has different requirements, different abilities and often different expectations. It is absolutely essential that any person specifying an alteration to a Freeway chair carries out a risk assessment in relation to that person, bearing in mind all factors likely to affect their use of the chair. What can safely be used by one person may be completely unsafe for another with the same apparent disability.

Freeway does not have the benefit of seeing the person who is to use the chair nor to discuss the proposed usage with healthcare professionals familiar with their requirements and whilst we can discuss and advise on similar situations, it is essential that the specifier is certain that the chair to be provided is suitable and safe for the use for which it is intended

Any alteration in a shower chair has to be suitable not only for the user, but also for the situation where it is to be used. It is essential therefore that at the time of specifying, you take note of the physical characteristics of the bathroom/wet area/shower etc where the chair is to be used.

Doorways, cistern heights cupboards, boxing round toilets, all affect choice of model or adaptation, and if at a later date you are asked for information that has not been gathered at the initial visit , this may mean a return visit, or at best an unwanted delay.

Altering the dimensions on one component can often require alteration of another. Make sure that you completely understand how the alteration is to be effected and check the notes for the model you have chosen as well as the component you are to alter

Assumptions For Toilet Size

All Standard model Freeway chairs are designed to fit over a standard toilet with the seat up against the cistern. It is assumed that a standard toilet dimensions will be no larger than

- seat height 400mm (16")
- bowl width 375mm
- cistern height 880mm
- 500mm centre of toilet bowl to back of wall

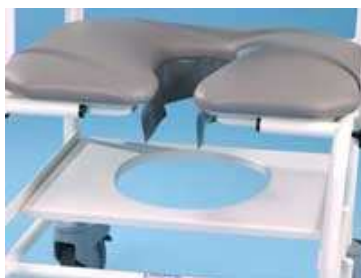
It is assumed that there are no obstructions to either side of the toilet which will prevent the wheels/castors of the chair going back to the wall, e.g. soil pipes or boxing. Where these do exist, and it is not possible to get the chair far enough back, then the bowl of the toilet will have to be brought forward

1.5 – Automatic Bidets

There are several automatic bidets on the market at present: Clos-O-Mat by Total Hygiene have several models in service (the Samoa and the newer Palma Vita) and Geberit have the original Geberit 7000 and the newer Bellina 8000

These bidets require special shower chair configurations. Look for the COM and Auto models to assist your choice.

Seats for these models are supplied without pan sliders but with a 'skirt' on the inside of the aperture on the seat to assist in splashing and direction of air and water. Where it is desired also to use a commode pan, it is not recommended to have a special seat that has a skirt and pan sliders. This could lead to problems with hygiene and will require a special frame increasing the distance between the seat and the bowl, thereby affecting efficiency of the unit.



We recommend a tray to hold the commode pan. This has a support runner which it is welded to the frame at original time of purchasing. The pan and tray can be easily removed when the chair is to be used over the bidet. The height of this tray from the floor alters according to the seat height and model.



Double Amputees

Where a person has a double above the knee amputation, their ability to safely use a shower toilet commode chair may be affected as the weight distribution is unbalanced.

This situation can be rectified in one of two ways:

- a) by setting the rear wheels back 75mm (25mm in the case of a T70).

NOTE You must check that setting the rear wheels back will not interfere with the fit of the chair over the toilet where it is to be used.

- Is the chair obstructed from moving far enough back so that the centre of the aperture of the chair is over the centre of the toilet bowl? - If so, you will need to arrange to move the bowl away from the wall or use solution b).

- b) by applying counterweights to the front of the chair. (see picture below)



Only the T50 is suitable for use by above knee double amputees without adaptation (A waist strap must be used to prevent the user falling forwards when reaching to propel the wheels).

NOTE

The standard backrest on all Freeway shower chairs is at a 90 degree angle to the seat, except on a T80, where the angle is 95 degrees, the backrest being supplied as standard with a 5 degree recline.

FRAMES

T30

- Static shower Chair
- Supplied as standard with Vertical handled backrest, fully padded seat (no aperture), straight armrests. To be used as a Shower chair only. Dim W=370mm
- Available with seat height of 560mm to fit over standard toilet, then supplied as above but with Large horse shoe seat. Dim W = 470mm
- Can be specified with a Horse Shoe / Aperture seat to be used as a static commode.
- Can also be used over a WC – Frame. Frame will need to be raised by 100mm.
- Available with floor fixing plates: all T30s have lugs to take these plates.



Floor fixing plates

Dimension Details													
	1	2	3	4	5	6	7	8	9	10	11	12	13
T30A (SC only)	920	640	570	570	540	460	345	400	180	485	435	470	530
T30B (SC only)	920	590	570	570	490	460	345	400	180	435	435	420	480
T30C (SC only)	890	540	570	570	440	460	345	400	180	385	435	370	430

- 1=** Height,
- 2=** Width,
- 3=** length including footrests at lowest position,
- 4=** length including footrests at highest position,
- 5=** width of standard seat,
- 6=** height to top of seat,
- 7=** height clearance,

- 8=** Depth of (standard) seat,
- 9=** Top of armrest to top of seat,
- 10=** width clearance,
- 11=** Top of backrest to top of seat,
- 12=** distance between armrests at rear,
- 13=** Distance between armrests at front

T30 Stocked frames: -

FB30 T30B Freeway Shower/Commode Chair Frame

FC30 T30C Freeway Shower/Commode Chair Frame

T40

- 4 braked castors
- Assistant propelled
- Supplied as standard with
 - Horizontal push backrest
 - Horse shoe seat with large aperture (complete with pan sliders)
 - Standard height footrests
 - Straight armrests



Dimension Details													
	1	2	3	4	5	6	7	8	9	10	11	12	13
T40A	980	640	1050	960	540	560	445	400	180	485	450	470	530
T40B	980	590	1050	960	490	560	445	400	180	435	450	420	480
T40C	980	540	1050	960	440	560	445	400	180	385	450	370	430

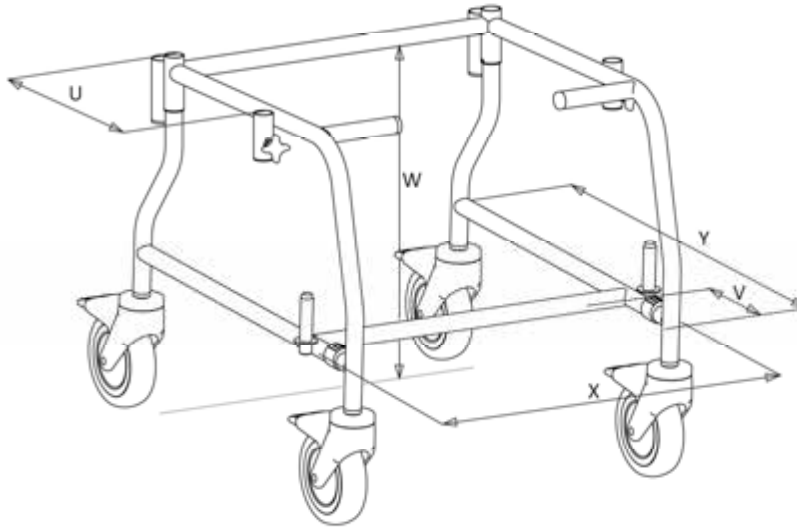
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- 5=** width of standard seat,
- 6=** height to top of seat,
- 7=** height clearance,

- 8=** Depth of (standard) seat,
- 9=** Top of armrest to top of seat,
- 10=** width clearance,
- 11=** Top of backrest to top of seat,
- 12=** distance between armrests at rear,
- 13=** Distance between armrests at front

Notes

- Without footrests the overall depth of the T40 reduces to 680mm
- Seats are available with 50mm or 75mm extensions to fit on a standard frame
- Seats have pan sliders attached as standard. By removing the pan sliders, an extra 25mm of clearance can be achieved (**Dim-7** will then be 470mm)

T40 - Specifications



Dimension	Description	Std (mm)
Width (X)	Width (from outside of frame)	
	• 17" Frame	440
	• 19" Frame	490
	• 21" Frame	540
W	Floor to underside of Rear Cross Bar	470
Y	Front of frame to rear of frame (Modifications to rear only)	560
U	Centres of arm rest sockets	270
V	Front cross bar to front of frame	110

T40 - Continued

NOTES

- *If it is desired to lower dimension **W** to less than 320mm (i.e lower seat height by more than 150mm) the footrests will need to be attached to front of frame as in T50 configuration or T90 style footrests selected— THEREFORE PLEASE CHECK SUITABILITY FOR USER & STATE IF RAISED FOOTRESTS REQUIRED IF SO, BY HOW MUCH
- To increase stability for reclined backrests or double amputees, we set rear wheels back as standard by 75mm. Dimensions C1 and C2 are therefore increased by 75mm – Check setting the rear wheels back will not affect the ability of the seat aperture and the toilet aperture to line up
- When ordering a frame raised over 75mm, please explain reasons for requiring this height and carefully state physical characteristics of user & weight distribution. Please consider if a wider base may be more appropriate
- Bars to aid tipping the chair to negotiate lips and thresholds can be fitted on a new frame.
- **NARROW FRAMES:** The 'C' width T40 gives a width clearance of 385mm. This is the minimum required to clear a standard toilet bowl. If a narrower seat width than 440mm is required, the chair can be manufactured in two ways: with a standard dimension base to clear a toilet bowl or with a narrower base, in which case pan sliders attached to the frame would allow use with a commode pan. On a narrower frame, standard footrests will need the footplate shortening (not particularly attractive) or T90 style footrests fitting. Alternatively special footrest hangers can be made - this would increase overall width at footrest height
- **WIDER FRAMES:**
 - When ordering a frame wider than 540mm you must state the weight of the user. Maximum weight of 350 kg (55 Stone)
 - All frames wider than 540mm have pram handled backrests
 - Any order for frames to take more than 200 Kg (30 stone) will be manufactured from increased diameter 1” tubing and will have non standard armrests and backrests.
 - Any order for frames in excess of 200kg (30 stone) will have heavy duty castors
 - Any order for a frame of 740mm or wider for a weight less than 200kgs (30stones) will be manufactured from 25mm (1”) tubing

T40 Com and T40 Auto

The Clos-o-mat Samoa has a cabinet enclosing its workings that means a standard design of T40 will not go far enough back over the toilet for the centre of the seat aperture and the bowl of the bidet to line up. Accordingly we have developed a special COM model with straight rear wheels to accommodate the cabinet.



'C', 'B', & 'A' width **'T40 COM'** frames will clear the Samoa
The 'B' & 'A' COM frames will also clear the old style Geberit 7000.

In addition there are two new models of automatic bidet, the 'Palma Vita' from Total Hygiene and the 'AquaClean 8000' from Geberit

The **T40AUTO** models fit over these bidets. The 'C' width models have 440mm wide seats but wider bases & a 490mm push handle backrest. See chart for details of dimensions.

Dimension Details													
	1	2	3	4	5	6	7	8	9	10	11	12	13
T40A AUTO	1000	590	1050	960	540	560	480	400	180	485	440	460	530
T40B AUTO	1000	540	1050	960	490	560	480	400	180	435	440	410	480
T40C AUTO	1000	540	1050	960	440	560	480	400	180	385	440	410	430
T40A COM	980	690	1050	960	540	560	470	400	180	485	460	470	530
T40B COM	980	590	1050	960	490	560	470	400	180	435	460	420	480
T40C COM	980	540	1050	960	440	560	470	400	180	385	460	370	430

- 1= Height,
- 2= Width,
- 3= length including footrests at lowest position,
- 4= length including footrests at highest position,
- 5= width of standard seat,
- 6= height to top of seat,
- 7= height clearance,

- 8= Depth of (standard) seat,
- 9= Top of armrest to top of seat,
- 10= width clearance,
- 11= Top of backrest to top of seat,
- 12= distance between armrests at rear,
- 13= Distance between armrests at front

T40 Stocked frames: -

NB the following commonly specified frames and alterations to those are usually stocked. Ordering from this list will dramatically reduce delivery time:

F59040 T40 – 590MM SEAT WIDTH SHOWER COMMODE FRAME

FA40 T40A Freeway Shower/Commode Chair Frame

FA40C T40A COM Freeway Commode Chair Frame

FA40CL50 T40ACOM Lowered 50mm Freeway S/C frame

FA40H50 T40A Raised 50mm Freeway S/C Frame

FA40L100 T40A Lowered 100mm Freeway S/C Frame

FA40L50 T40A Lowered 50mm Freeway S/C Frame

FA40Y T40A Wheels set back 75mm F/way S/C Frame

FBAUTO 'B' Frame 4 New automatic bidet AP/SP

FB40C T40B COM Freeway Commode Chair Frame

FB40CFSB T40B COM F/Support Bar Freeway S/C Frame

FB40CH50 T40B COM raised 50mm freeway S/C Frame

FB40CL50 T40B COM Lowered 50mm Freeway S/C Frame

FB40FSB T40B with F/Supt Bar Freeway S/C Frame

FB40H50 T40B Raised 50mm Freeway S/C Frame

FB40L100 T40B Lowered 100mm Freeway S/C Frame

FB40L50 T40B Lowered 50mm Freeway S/C Frame

FB40L50Y T40B Y=635 & Lowered 50mm Freeway S/C Frame

FB40Y T40B Y=635 Freeway S/C Frame

FCAUTO 'C' Frame 4 New automatic bidet AP/SP

FC40 T40C Freeway Shower/Commode Chair Frame

FC40C T40C COM Freeway Commode Chair Frame

FC40CFSB T40C COM F/SUPT Bar Freeway S/C Frame

FC40CH50 T40C COM raised 50mm Freeway S/C Frame

FC40CL50 T40C COM Lowered 50mm Freeway S/C Frame

FC40FSB T40C with F/Supt Bar Freeway S/C Frame

FC40H50 T40C Raised 50mm Freeway S/C Frame

FC40L100 T40C Lowered 100mm Freeway S/C Frame

FC40L150 T40C Lowered 150mm Freeway S/C Frame

FC40L50 T40C Lowered 50mm Freeway S/C Frame

FC40L50Y T40C Y=635 & Lowered 50mm Freeway S/C Frame

FC40Y T40C Y=635mm Freeway S/C Frame

T50

- Self propelled front wheeled shower toilet commode chair
- 20" 510mm propelling wheels
- suitable for double amputee without adaptation (Must be used with a waist strap)
- Footrests permanently fixed to front of frame, so flip up or remove, but do not swing away
- very manoeuvrable – suitable for turning off narrow corridors
- available with push rims
- Supplied as standard with Horizontal push handled backrest, straight armrests, Large horseshoe seat, standard height footrests (photo shows a flat padded seat)

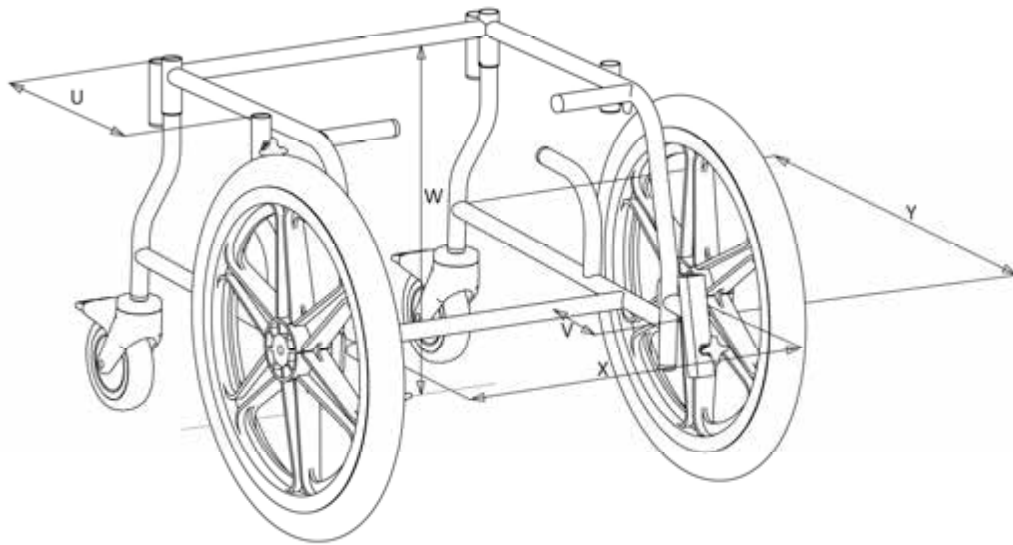


Dimension Details													
	1	2	3	4	5	6	7	8	9	10	11	12	13
T50A	980	730	940	900	540	560	445	400	180	485	450	470	530
T50B	980	680	940	900	490	560	445	400	180	435	450	420	480
T50C	980	630	940	900	440	560	445	400	180	385	450	370	430

1= Height,
2= Width,
3= length including footrests at lowest position,
4= length including footrests at highest position,
5= width of standard seat,
6= height to top of seat,
7= height clearance,

8= Depth of (standard) seat,
9= Top of armrest to top of seat,
10= width clearance,
11= Top of backrest to top of seat,
12= distance between armrests at rear,
13= Distance between armrests at front

T50 Specifications



Dimension	Description	Std (mm)
Width (X)	Width (from outside of frame)	
	• 17" Frame	440
	• 19" Frame	490
	• 21" Frame	540
W	Floor to underside of Rear Cross Bar	470
Y	Front of frame to rear of frame (Modifications to rear only)	520
U	Centres of arm rest sockets	270
V	Front cross bar to front of frame	110

T50 - Continued

NOTES

- Must be specified on initial order if raised footrests are required as they will be attached to frame in appropriately raised position. **Raised footrests therefore are special and subject to special delivery times.**
- If frame is lowered, special armrests will be required as armrest securing locknut position has to be altered. If lowered more than 50mm, (W = less than 420mm) half wide and wide armrests will not fit.
- Can be supplied with straight rear legs if required to fit over Clos-o-Mat Samoa
- Standard height flip up armrests not suitable for frames lowered more than 100mm

T50 Stocked frames: -

FA50	T50A Freeway Shower Chair inc f/rests
FB50	T50B Freeway frame inc std footrests
FC50	T50C S/C Frame to inc std footrests

T60

- Self propelled rear wheeled shower toilet commode chair
- 20" (510mm) self propelling wheels do not extend above seat height therefore leaving transfer area clear
- Rear wheels forward to give short overall length
- Supplied without push rims, available as option
- Supplied with anti tip bars as standard for safety
- Supplied as standard with Large horseshoe seat, Horizontal push handled backrest, straight armrests and standard footrests (image has vertical handle backrest, wide armrests and an aperture seat)



This chair is often used as an assistant propelled chair where lips need to be negotiated as it is easier to tip than a T40.

Dimension Details													
	1	2	3	4	5	6	7	8	9	10	11	12	13
T60A	980	710	1050	970	540	550	435	400	180	485	450	470	530
T60B	980	660	1050	970	490	550	435	400	180	435	450	420	480
T60C	980	610	1050	970	440	550	435	400	180	385	450	370	430

1= Height,

2= Width,

3= Length including footrests at lowest position,

4= Length including footrests at highest position,

5= Width of standard seat,

6= Height to top of seat,

7= Height clearance,

8= Depth of (standard) seat,

9= Top of armrest to top of seat,

10= Width clearance,

11= Top of backrest to top of seat,

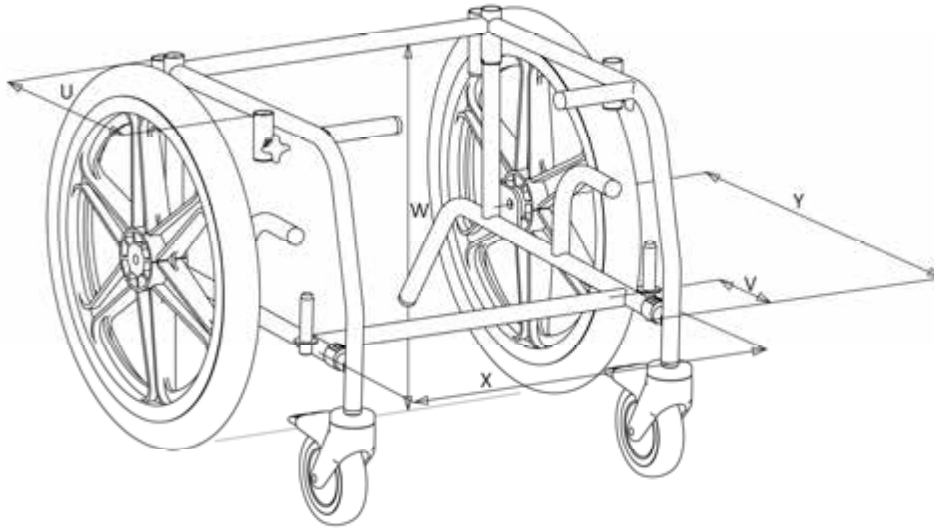
12= Distance between armrests at rear,

13= Distance between armrests at front

NOTES

- Without footrests the overall length of the T60 reduces to 690mm
- Seats are available with 50mm or 75mm extensions to fit on a standard frame
- Seats have pan sliders attached. By removing the pan sliders, an extra 25mm of clearance can be achieved (**Dim 7** will then be 460mm)

T60 Specifications



Dimension	Description	Std (mm)
Width (X)	Width (from outside of frame)	
	• 17" Frame	440
	• 19" Frame	490
	• 21" Frame	540
W	Floor to underside of Rear Cross Bar	460
Y	Front of frame to rear of frame (Modifications to rear only)	440
U	Centres of arm rest sockets	270
V	Front cross bar to front of frame	110

T60 – Continued

NOTES

- Remember CLEARANCE is 25mm less than Dimension 'W' when using seat with pan sliders
- This model is not suited to conversion to COM model or auto model as the anti tip bars interfere with the bidet unit
- It is possible, after risk assessment, to shorten anti tip bars by 25mm to avoid catching on ramps. Shortening further than this is not recommended
- Wide and half wide armrests can not be used with frames lowered more than 75mm i.e. w = less than 385mm
- Standard height flip up armrests can be used on seat height lowered 75mm
- Maximum lowering is 150mm i.e. W = 310mm) A further 30mm of lowering to W = 280mm is possible by adapting and shortening footrest pins
- Moving the rear wheel back on this model will probably mean that the chair is incapable of self propulsion

T60 Stocked frames: -

Choosing from one of the following frames will reduce delivery times:

FA60	T60A Freeway Shower/Commode Chair Frame
FA60C	T60A COM Freeway Commode Chair
FA60L50	T60A Lowered 50mm Freeway S/C Frame
FB60	T60B Freeway Shower/commode Frame
FB60L50	T60B Lowered 50mm Freeway S/C Frame
FC60	T60C Freeway Shower/Commode Chair Frame
FC60L50	T60C Lowered 50mm Freeway S/C Frame
FC60Y	T60C Y=525mm Freeway S/C Frame

T70

- Self propelled rear wheeled shower toilet commode chair
- 22" (560mm) self propelling wheels with push rims
- Supplied as standard with Large horseshoe seat (complete with pan sliders), Horizontal push handled backrest, straight armrests and standard footrests (image has an aperture seat and wide armrests)



Dimension Details													
	1	2	3	4	5	6	7	8	9	10	11	12	13
T70A	980	750	1150	1100	540	560	445	400	180	485	450	470	520
T70B	980	700	1150	1100	490	560	445	400	180	435	450	420	470
T70C	980	650	1150	1100	440	560	445	400	180	385	450	370	420

- 1=** Height,
- 2=** Width,
- 3=** Length including footrests at lowest position,
- 4=** Length including footrests at highest position,
- 5=** Width of standard seat,
- 6=** Height to top of seat,

- 7=** Height clearance,
- 8=** Depth of (standard) seat,
- 9=** Top of armrest to top of seat,
- 10=** Width clearance,
- 11=** Top of backrest to top of seat,
- 12=** Distance between armrests at rear,
- 13=** Distance between armrests at front

NOTES

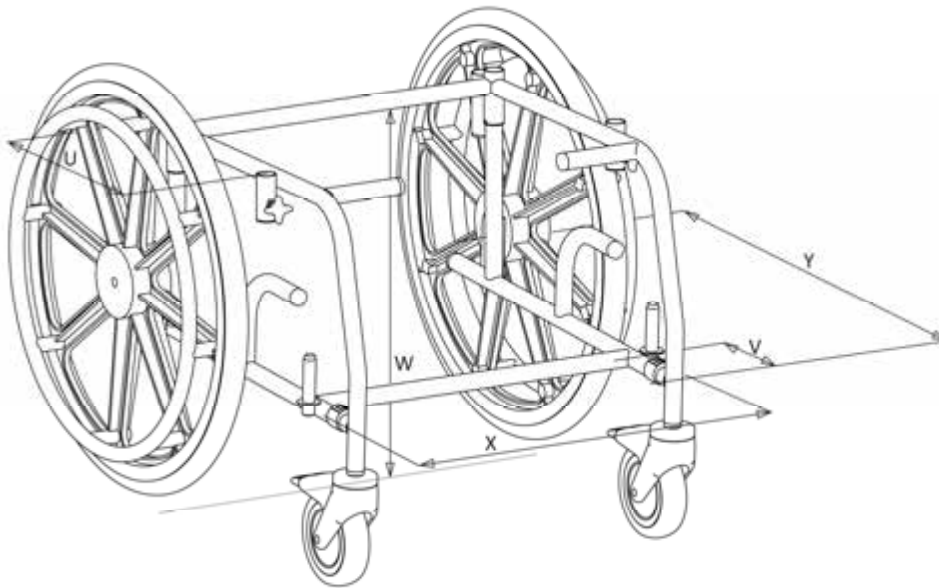
- Removing push rims will reduce the overall width by 10mm
- Addition of anti tip bars provides added peace of mind for some users

T70 – Continued

NOTES

- Adding anti tip bars gives added stability and security for some users
- Rear wheels back 25mm and add anti tip bars for double amputees
- ARMRESTS
 - ON LOWERED FRAMES: half wide and wide armrests can only be used on frames lowered up to 50mm (W = 420mm) after that, only straight armrests can be used
 - Standard height flip up armrests can be used on frames up to W = 420mm, lowered 50mm flip up armrests can be ordered but only on standard height frame
 - Half wide armrests lowered 50mm will fit on standard height frames, no other altered width or altered height armrest/frame combinations are compatible.
 - FLIP UP ARMRESTS: Standard height or raised flip up armrests can be used on a T70 frame lowered up to 50mm . With 24" wheels, only a standard height frame can be used with flip up standard height or raised armrests.
- If rear wheels are moved forwards or 24" wheels are used, the brake bar is moved forwards and the frame lowering is restricted to 50mm i.e. W = 420mm) If however T90 or T50 style footrests can be used, the lowering is available as usual
- Maximum frame lowering is 150mm (W = 320mm)
- After lowering 100mm, extended brake levers need to be specified / fitted

T70 Specifications



Dimension	Description	Std (mm)
Width (X)	Width (from outside of frame)	
	• 17" Frame	440
	• 19" Frame	490
	• 21" Frame	540
W	Floor to underside of Rear Cross Bar	470
Y	Front of frame to rear of frame (Modifications to rear only)	510
U	Centres of arm rest sockets	270
V	Front cross bar to front of frame	110

T70 Com and T70 Auto

The Clos-o-Mat Samoa has a cabinet enclosing its workings: this means a standard design of T70 will not go far enough back over the toilet for the centre of the seat aperture and the bowl of the bidet to line up. Accordingly we have developed a special COM model with rear wheels set forward to accommodate the cabinet.



T70 COM

T70 AUTO

'C', 'B', & 'A' width 'T70 COM' frames will clear the Samoa
The 'B' & 'A' COM frames will clear the old style Geberit 7000(not 'C')

In addition there are two new models of automatic bidet, the 'PalmaVita' from Total Hygiene and the 'Aquaclean 8000' from Geberit

The T70AUTO models fit over these bidets. The 'C' width models have 440mm wide seats but wider bases & a 490mm push handle backrest. See chart for details

COM/AUTO models may also be selected for ease of self propulsion.

**On these models, always assess user to ensure stability is maintained.
Fitting anti tip bars increases stability but will prevent use with Samoa**

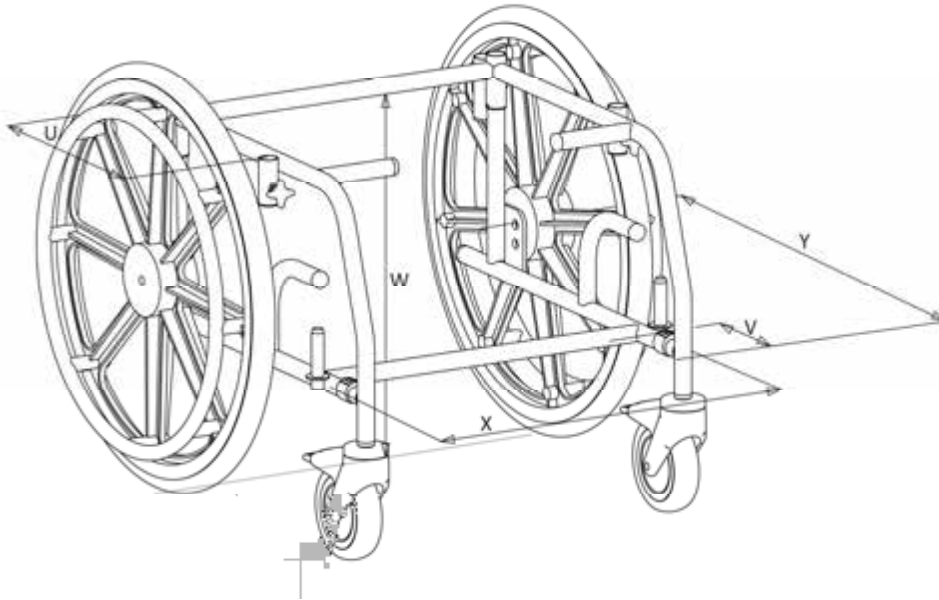
Dimension Details													
	1	2	3	4	5	6	7	8	9	10	11	12	13
T70A AUTO	1000	790	1140	1060	540	560	480	400	180	485	440	470	520
T70B AUTO	1000	740	1140	1060	490	560	480	400	180	435	440	410	470
T70C AUTO	1000	690	1140	1060	440	560	480	400	180	385	440	410	420
T70A COM	980	775	1110	1020	540	560	470	400	180	485	450	470	520
T70B COM	980	725	1110	1020	490	560	470	400	180	435	450	420	480
T70C COM	980	675	1110	1020	440	560	470	400	180	385	450	370	430

- 1= Height,
- 2= Width,
- 3= Length including footrests at lowest position,
- 4= Length including footrests at highest position,
- 5= Width of standard seat,
- 6= Height to top of seat,

- 8= Depth of (standard) seat,
- 9= Top of armrest to top of seat,
- 10= Width clearance,
- 11= Top of backrest to top of seat,
- 12= Distance between armrests at rear,
- 13= Distance between armrests at front

7= Height clearance,

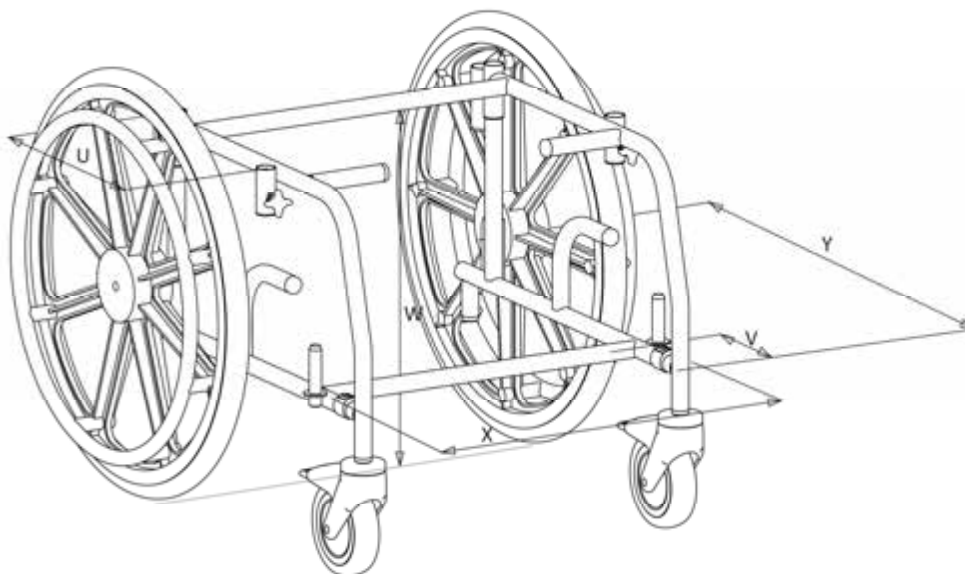
T70 COM



Dimension	Description	Std (mm)
Width (X)	Width (from outside of frame)	
	• 17" Frame	440
	• 19" Frame	490
	• 21" Frame	540
W	Floor to underside of Rear Cross Bar	470
Y	Front of frame to centre of axle (modifications to rear only)	450
U	Centres of arm rest sockets	270
V	Front cross bar to front of frame	110

***If seat is extended forward 75mm or more, front legs of frame must be made vertical.**

T70 AUTO



Dimension	Description	Std (mm)
Width (X)	Width (from outside of frame)	
	• 17" Frame	440
	• 19" Frame	490
	• 21" Frame	540
W	Floor to underside of Rear Cross Bar	480
Y	Front of frame to centre of axle (modifications to rear only)	510
U	Centres of arm rest sockets	270
V	Front cross bar to front of frame	110

T70 – Continued

T70 Stocked frames: -

Choosing from the following frames will greatly reduce his delivery times

F70P	T70 Transportable Freeway S/C Frame
F70PC	T70COM Transportable Freeway S/C Frame
FA70	T70A Freeway Shower/Commode Chair Frame
FA70C	T70A COM Freeway Commode Chair Frame
FA70L100	T70A Lowered 100mm Freeway S/C Frame
FA70L50	T70A Lowered 50mm Freeway S/C Frame
FA70LH	T70A left hand side opening frame 540mm
FB70	T70B Freeway Shower/Commode Chair Frame
FB70C	T70B COM Freeway Commode Chair Frame
FB70CL50	T70B COM Lowered 50mm Freeway S/C Frame
FB70L50	T70B Lowered 50mm Freeway S/C Frame
FB70L50TY	T70B Y=535 ATB Low 50mm Freeway Frame
FB70LH	T70B left hand side opening frame 490mm
FB70RH	T70B R/H Side Opening Freeway S/C Frame
FB70T	T70B with A/Tip Bars Freeway S/C Frame
FB70TY	T70B A/Tip Bars Y=535 Freeway S/C Frame
FC70	T70C Freeway Shower/Commode Chair Frame
FC7024	T70C with 24 wheels Freeway S/C Frame"
FC70C	T70C COM Freeway Commode Chair
FC70C24	T70C COM with 24 wheels Freeway S/C Frame"
FC70CL50	T70C COM Lowered 50mm Freeway S/C Frame
FC70L100	T70C Lowered 100mm Freeway S/C Frame
FC70L50	T70C Lowered 50mm Freeway S/C Frame
FC70L50T	T70C Freeway S/Chair Lowered 50mm ATB
FC70L50TY	T70C Lowered 50mm RWB ATB Freeway Frame
FC70L50Y	T70C Y=535 Low 50mm Freeway Frame
FC70LH	T70C LH side opening frame 440mm seat
FC70P	Discontinued -T70C Freeway Transportable
FC70RH	T70C RIGHT HAND SIDE OPENING
FC70T	T70C with A/Tip Bars Freeway S/C Frame
FC70TY	T70C A/Tip Bars Y=535mm Freeway S/C Frame
FC70Y	T70C Y=535mm Freeway S/C Frame

T70 Side Opening

Self propelled rear wheeled shower toilet commode chair

- 22" (560mm) self propelling wheels with push rims
- Available with right or left opening
- Supplied as standard with
 - Large horseshoe seat left or right side opening WITH NO PAN SLIDERS
 - Horizontal push handled backrest,
 - straight side access armrests
 - standard footrests
 - extended 50mm brake levers



Dimension Details													
	1	2	3	4	5	6	7	8	9	10	11	12	13
T70ASO	980	750	1140	1060	540	560	470	400	180	485	390	470	530
T70BSO	980	700	1140	1060	490	560	470	400	180	435	390	420	480
T70CSO	980	650	1140	1060	440	560	470	400	180	385	390	370	430

- 1=** Height,
- 2=** Width,
- 3=** Length including footrests at lowest position,
- 4=** Length including footrests at highest position,
- 5=** Width of standard seat,
- 6=** Height to top of seat,
- 7=** Height clearance,

- 8=** Depth of (standard) seat,
- 9=** Top of armrest to top of seat,
- 10=** Width clearance,
- 11=** Top of backrest to top of seat,
- 12=** Distance between armrests at rear,
- 13=** Distance between armrests at front

Pan sliders can be fitted to side opening seats if required – extra charge and special order

T80 Recliner NB. Weight limit 25stone, 160kgs

Tilt in space recliner

- Infinite angles of recline up to 45 degrees
- Supplied as standard with
 - 5 degree reclined backrest
 - Large horse shoe seat (small horse shoe on paediatric)
 - Straight armrests (50mm lower on paediatric)
 - Removable flip up footrests with heel supports
 - Vinyl calf support
 - (shown with optional detachable head support)


















Models available:

- **T80C** -440mm seat width
- **T80B** - 490mm seat width
- **T80A** 540mm seat width
- **COM** models for Geberit 7000 (B & A width only) and Samoa Clos O Mat – these have splayed rear legs to avoid Samoa cabinet and the rear push handle is curved upwards to clear the WC seat when in the up position.
AUTO models for new style AquaClean 8000 and Total Hygiene Palma Vita ('C' width models have a 'B' width base and backrest)
- **Paediatric** model (356mm seat width)

Lowering Available only by 25mm, Raising 50mm maximum

Where a user has uneven weight distribution (i.e Double Amputee), or is liable to sudden movement that may destabilise the chair, consider either restricting the recline, or setting rear wheels back.

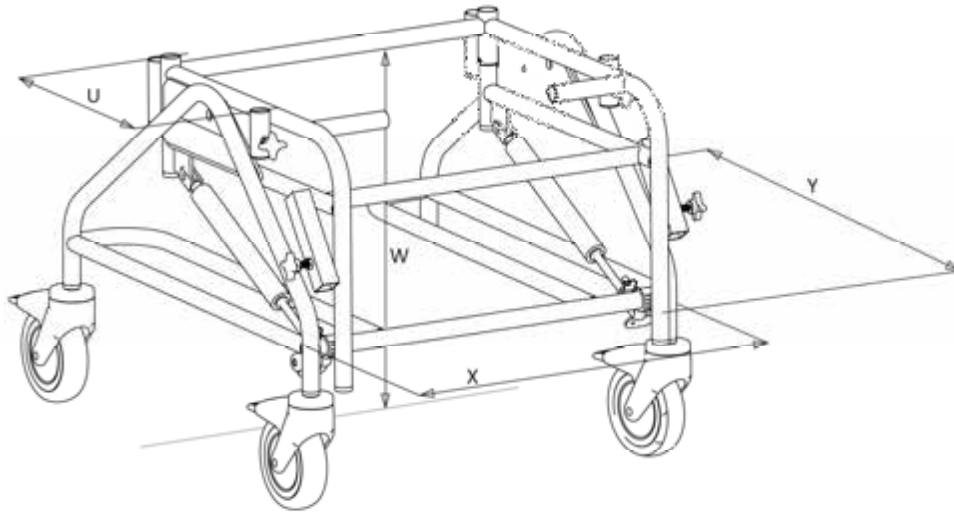
T80 - Dimensions

Dimension Details															
	1	2	3	4A	4B	4C	5	6	7	8	9	10	11	12	13
T80A	1125	1440	640	1040	1300	1500	540	560	445	400	190	480	535	370	430
T80B	1125	1440	590	1040	1300	1500	490	560	445	400	190	430	535	370	430
T80C	1125	1440	540	1040	1300	1500	440	560	445	400	190	380	535	370	430
T80ACOM	1125	1440	730	1040	1300	1500	540	560	480	400	190	480	535	370	430
T80BCOM	1125	1440	680	1040	1300	1500	490	560	480	400	190	430	535	370	430
T80CCOM	1125	1440	630	1040	1300	1500	440	560	480	400	190	380	535	370	430
T80AAUTO	1125	1440	730	1000	1300	1500	540	560	480	400	190	480	535	370	430
T80BAUTO	1125	1440	680	1000	1300	1500	490	560	480	400	190	430	535	370	430
T80CAUTO	1125	1440	630	1000	1300	1500	490	560	480	400	190	380	535	370	430
T80P	1050	1345	590	780	1050	1170	370	550	430	330	145	430	510	350	360

1= Height without detachable headrest,
2= Height with detachable headrest
3= Width,
4A= Length including footrests in upright position,
4B= Length at maximum recline with footrests at highest position,
4C= Length at maximum recline with detachable headrest fitted and footrests in highest position,
5= Width of standard seat,
6= Height to top of seat,

7= Height clearance,
8= Depth of (standard) seat,
9= Top of armrest to top of seat,
10= Width clearance,
11= Top of backrest to top of seat (without detachable headrest, with full height detachable headrest, add 300mm),
12= Distance between armrests at rear,
13= Distance between armrests at front

T80 Specifications



Dimension	Description	Std (mm)
Width (X)	Width (from outside of frame)	
	• 17" Frame	440
	• 19" Frame	490
	• 21" Frame	540
W	Floor to underside of Rear Cross Bar	470
Y	Front of frame to rear of frame (Modifications to rear only)	660
U	Centres of arm rest sockets	270
V	Front cross bar to front of frame	110

T80 Recliner – Self propelled

- 22" 560mm rear self propelling wheels
- Anti tip bars as standard
- Available with 2 wheel positions, forward for easier self propelling (recline restricted to 20 degrees) and back, with full 45% recline
- All other features as standard T80
- Picture shows a full height detachable headrest with a curved head support



Dimension Details															
	1	2	3	4A	4B	4C	5	6	7	8	9	10	11	12	13
T80SP40A	1125	1440	690	1240	1300	1500	540	560	445	400	190	380	535	470	530
T80SP20A	1125	1440	690	1160	1300	1500	540	560	445	400	190	380	535	370	430
T80SP40B	1125	1440	640	1240	1300	1500	490	560	445	400	190	380	535	420	480
T80SP20B	1125	1440	640	1160	1300	1500	490	560	445	400	190	380	535	370	430
T80SP40C	1125	1440	590	1240	1300	1500	440	560	445	400	190	380	535	370	430
T80SP20C	1125	1440	590	1160	1300	1500	440	560	445	400	190	380	535	370	430

1= Height without detachable headrest,
2= Height with detachable headrest
3= Width,
4A= length including footrests in upright position,
4B= length at maximum recline with footrests at highest position,
4C= length at maximum recline with detachable headrest fitted and footrests in highest position,
5= width of standard seat,
6= height to top of seat,

7= height clearance,
8= Depth of (standard) seat,
9= Top of armrest to top of seat,
10= width clearance,
11= Top of backrest to top of seat (without detachable headrest, with full height detachable headrest, add 300mm),
12= distance between armrests at rear,
13= Distance between armrests at front

T80 SPECIALS

The T80 is not best suited to frame alterations: We do however carry out many adaptations to the components on the T80 to aid custom building for the individual's needs.

The position of the rams and the balance of the chair means that frame alterations other than lowering by a maximum of 25mm or raising (maximum recommended is 75mm) are not practical. When using a lowered T80 frame, kinked footrest sliders are required to prevent the footplates from catching on the castors.



Kinked Footrests

Footrests

- Because Footrests are attached to the frame, any alterations to footrests require a frame alteration
- Examples of footrests alterations:
 - Bring legs closer to chair for more upright leg position
 - Attach sockets to take leg support

Other Options:

- Set the rear wheels back or restrict recline to improve stability for unusual weight or movement of user.
- When using with trunk supports, if the gap between the trunk support and the backrest is an issue:
 - Use lateral supports or thoracic supports
 - Replace standard backrest with one without recline which will eliminate gap, but decrease the angle between the seat and the backrest to 90 degrees
- Wider frames – 590mm, 640mm, but ensure weight limits and weight distribution are within safety limits.

T90 Paediatric

- Shower/Commode Chair only
- Pan sliders fitted to frame for commode pan
- Available as assistant propelled and self propelling models (frame itself is same for both models)
- Height adjustable footrests allow feet to move further in or away from the chair
- Supplied as standard with straight lowered armrests (50mm lower than standard models), horizontal push handled back rest, small horse shoe seat, special T90 footrests



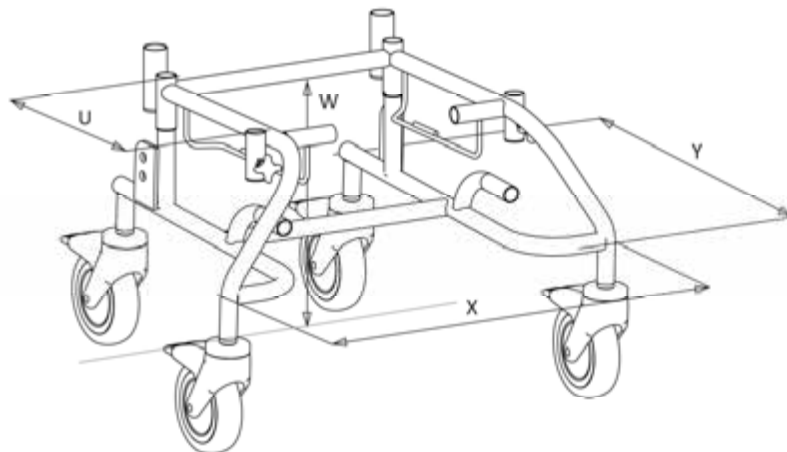
NB Half wide and wide armrests not compatible with this frame

Dimension Details													
	1	2	3	4	5	6	7	8	9	10	11	12	13
T90AP	920	620	730	620	370	470	N/A	330	130	N/A	440	300	340
T90SP	920	620	880	800	370	470	N/A	330	130	N/A	440	300	340

1= Height,
2= Width,
3= length including footrests at lowest position,
4= length including footrests at highest position,
5= width of standard seat,
6= height to top of seat,
7= height clearance,

8= Depth of (standard) seat,
9= Top of armrest to top of seat,
10= width clearance,
11= Top of backrest to top of seat,
12= distance between armrests at rear,
13= Distance between armrests at front

T90 Specifications



Dimension	Description	Std (mm)
Width (X)	Width (from outside of frame at seat height)	
W	Floor to underside of Rear Cross Bar	375
Y	Front of frame to rear of frame (Modifications to rear only)	490
U	Centres of arm rest sockets	270
V	Front cross bar to front of frame	200

T90 - Continued

NOTES

Maximum lowering is 100mm i.e. W = 370mm

Always use this frame if a narrower seat width is required as opposed to T90 WC frame

COMMODE PAN

Please note the standard commode pan is too long for the seat on this chair unless the seat is extended. Accordingly order Paediatric commode pan and lid to accompany:



T90WC Paediatric AP & SP

- Fits over standard WC pan
- 365MM seat width
- Available as assistant or self propelled models (frame itself is same for both models)
- Integral horizontal push handled backrest
- Pan sliders attach to the frame and are **EASILY REMOVABLE** without tools
- Supplied as standard with
 - Straight paediatric armrests
 - Small horseshoe seat



Note: any adjustments in backrest height or if vertical handles are required, a frame alteration is required

The new standard design fits over

- a standard toilet,
- a Palma Vita on a 50mm plinth and
- a Geberit Aquaclean 8000 at factory setting

WITHOUT ALTERATION, but pan sliders must be removed

Dimension Details													
	1	2	3	4	5	6	7	8	9	10	11	12	13
T90WCAP	980	470	680	N/A	370	550	420	330	130	430	440	320	320
T90WCSP	980	680	880	N/A	370	550	420	330	130	430	440	320	320

- 1=** Height,
- 2=** Width,
- 3=** Length including footrests at lowest position,
- 4=** Length including footrests at highest position,
- 5=** Width of standard seat,
- 6=** Height to top of seat,
- 7=** Height clearance,

- 8=** Depth of (standard) seat,
- 9=** Top of armrest to top of seat,
- 10=** Width clearance,
- 11=** Top of backrest to top of seat,
- 12=** Distance between armrests at rear,
- 13=** Distance between armrests at front

T90 WC – Continued

NOTES

These chairs have now a new design of frame,

- With different height armrest sockets and
- Armrest sockets in a different position.
- Clearance on this frame is now 475mm.
- Seat height will be 565mm.
- Pan sliders attach to the frame and are **EASILY REMOVABLE** without tools.

Code for frame: T90APWC2, T90SPWC2

Code for Pan sliders: XRPS – removable pan sliders

Because of the new armrest sockets, in order to maintain the standard height above the seat for the T90WC (ie 145mm seat height to armrest top), special armrests are required. These armrests have a locking nut to the outside of the socket rather than the front.

Because of the position of the armrest sockets, these frames are not suitable for seats with reduced padding.

Code for armrests: APS – armrests, paediatric straight.

Only straight paediatric armrests are suitable for self propelled frames. Half wide and wide paediatric armrests will fit the assistant propelled models, but will not be stocked. All clip on and other padding to suit standard armrests lowered 50mm fit these armrests.

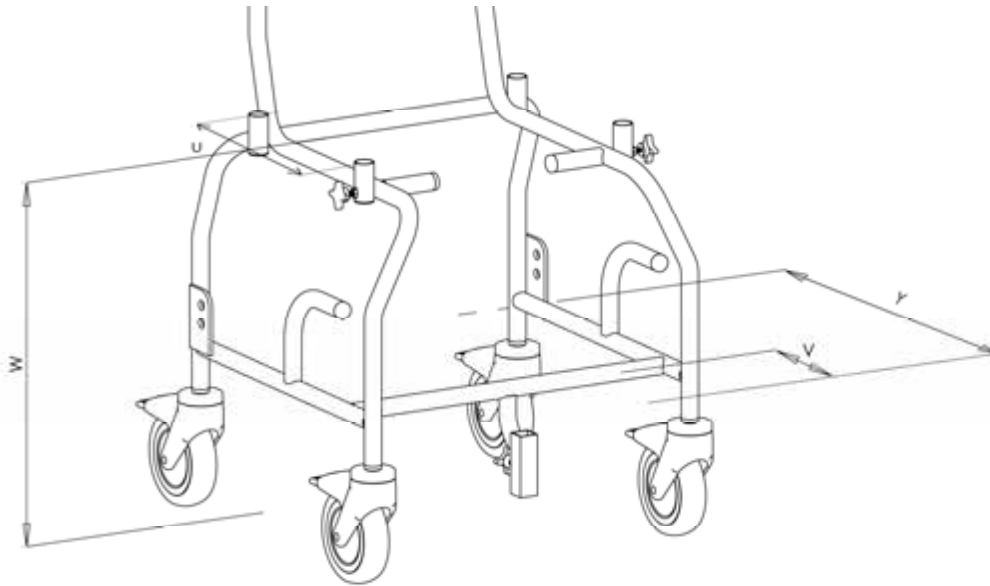
If this model is required to fit over a Palma Vita **NOT** on plinth, lower the frame 50mm and remove pan sliders.

N.B. Frames are supplied as standard with removable pan sliders so no need to specify 'no pan sliders' on order, but user needs to be aware they can be removed.

Remember

- The overall width of T90 SP/WC chair is actually 50mm wider than a T70C! (because the base is in essence a B width base)
- Any T90 required to fit over the Samoa, is a special order

T90 WC Specifications



Dimension	Description	Std (mm)
Width (X)	Width (from outside of frame)	
W	Floor to underside of Rear Cross Bar	485
Y	Front of frame to rear of frame (Modifications to rear only)	460
U	Centres of arm rest sockets	270
V	Front cross bar to front of frame	65

NOTES

Maximum lowering of 35mm (W = 450mm). If a lower height than this is required, frame will not fit over toilet; Therefore: Order T90 raised to desired height.

T100 Bariatric & T100FR

350kgs capacity

- Strong double castors
- Full push handle for easy propulsion
- Increased diameter tubing for strength
- Supplied as standard with Large horse shoe seat, hooped armrests, **Pram handled backrest**, Heavy duty footrests with heel supports
- NB Standard footrests have gap of 410mm between footplates



Available with adjustable width footrest attachment (**T100FR**) (footrests do not swing away but are easily removable but no heel supports as standard)

Footrest assembly attaches to footrest pins – no heel supports as standard.

Maximum width between footplates: 320mm

Minimum width between footplates: 0mm



Both Standard and T100FR Footrests:

Height from floor in highest position: 190mm

Height from floor in lowest position: 60mm

Dimension Details													
	1	2	3	4	5	6	7	8	9	10	11	12	13
T100	990	900	1220	1170	790	570	450	550	170	730	430	720	760
T100FR	990	900	1220	1170	790	570	450	550	170	730	430	720	760

1= Height,

2= Width,

3= Length including footrests at lowest position,

4= Length including footrests at highest position,

5= Width of standard seat,

6= Height to top of seat,

7= Height clearance,

8= Depth of (standard) seat,

9= Top of armrest to top of seat,

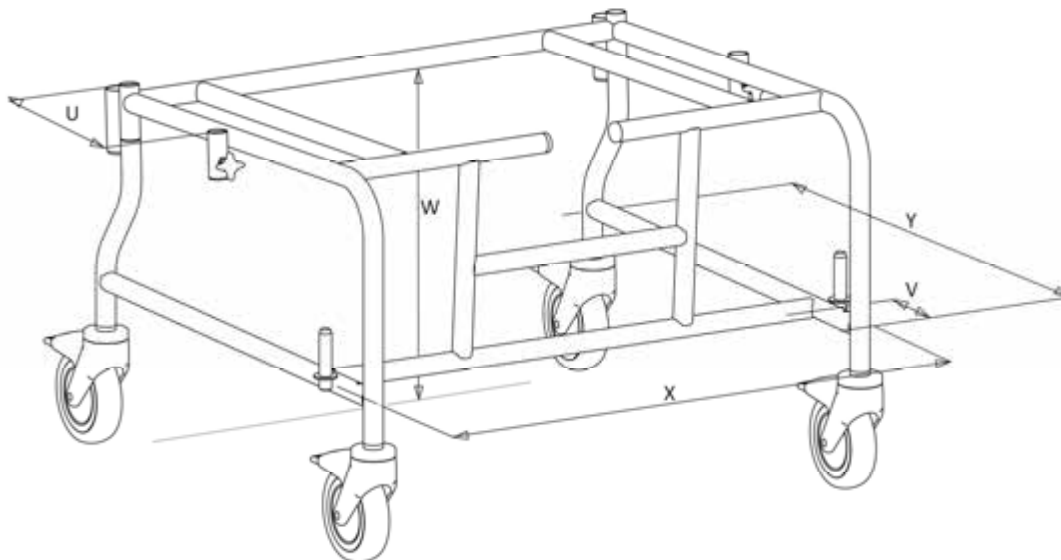
10= Width clearance,

11= Top of backrest to top of seat,

12= Distance between armrests at rear,

13= Distance between armrests at front.

T100 Bariatric Specifications



Dimension	Description	Std (mm)
Width (X)	Width (from outside of frame)	790
W	Floor to underside of Rear Cross Bar	455
Y	Front of frame to rear of frame (Modifications to rear only)	710
U	Centres of arm rest sockets	370
V	Front cross bar to front of frame	110

Armrests



- Standard armrests are removable or swing away to allow access for washing or for transfer.
- They have a soft but supportive foam pad along their length.
- They fit to two sockets on the shower chair frame, the rear socket being in the line of the metalwork to produce a natural sitting position with users arms slightly splayed.
- All standard armrests are interchangeable on all frames except side opening and T100, as the armrest sockets on all frames are set at standard distance of 270mm centre to centre.
- Standard armrests are available in 3 options:-
Straight, Half wide & Wide.



DIMENSIONS



Dimension 12 is width between the arms at the back of the chair



Dimension 13 is width between the arms at the front of the chair

		
	12	13
Straight armrests 'A' Chair	470	530
Half wide armrests 'A' Chair	520	580
Wide Armrests 'A' Chair	570	630
Straight armrests 'B' Chair	420	480
Half wide armrests 'B' Chair	470	530
Wide Armrests 'B' Chair	520	580
Straight armrests 'C' Chair	370	430
Half wide armrests 'C' Chair	420	480
Wide Armrests 'C' Chair	470	530

Armrest Section

Hooped Armrests

On Side Opening and T100 chairs, hooped armrests are used. These are also available in half wide and wide.

Standard Armrests are interchangeable on all chairs except side opening and T100.

Side Access armrests are not interchangeable between the side opening and T100 models as the T100 has a larger diameter tubing.

Hooped armrests can be ordered in half wide and wide to fit assistant propelled chairs.



Flip Up and Gull Wing Armrests

Some users prefer flip up armrests for side transfer. Gull wing armrests also flip up but when in 'down' position can act as a front support bar.

These armrests can be supplied to special order: they necessitate a special backrest.

Note that flip up armrests cannot be used on self propelling chairs if either:-

- a) the frame is lowered more than 50mm
- b) the armrests are lowered more than 50mm



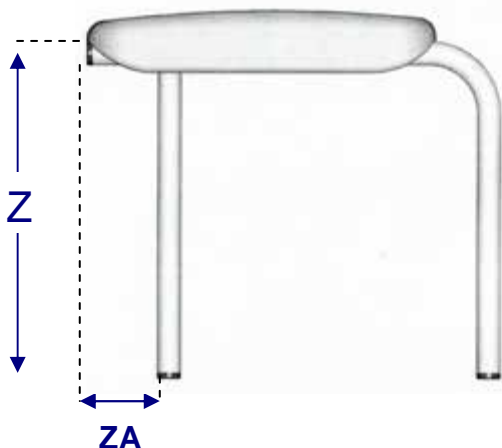
Front Support Bar

A front support bar is fitted to sockets fitted to the front of a frame. A standard front support bar is 60mm higher than standard armrests. It can be used by the user to support them during use. It is available with or without padding on the top of the bar. Frame must be specified to have the sockets attached to take the support bar.



Armrest Alterations

Armrest alterations usually involve length or height alterations:



	Standard (mms)	Custom (mms)
Z	290	
ZA	50	
NB. Seat to top of armrests is 'Z' less 110mm on standard armrests		

Dimension Z is the top of the metalwork of the armrest to the base of the socket. Dimension ZA is from the front of the armrest to the

Armrest Pads

Straight armrests extended forward 50mm, and 75mm are stocked - with armrest pad moved forward to the front of the armrest as in illustration above. If the pad is required in its original position i.e. not moved forward, remember to state position of armrest pad when ordering i.e. 'not moved forward but in original position'.

A standard armrest pad is 290mm long and 55mm wide.



If a wider pad is required, then we can supply soft armrest tops which are upholstered in vinyl. These are available in 60mm, 90mm or 120mm wide. If a longer pad is required to cover the full length of an extended forward armrest, then a soft armrest top can be supplied either 370mm or 420mm long, still with a choice of width ie 60, 90, or 120mm wide

Gutter Armrests

Gutter Armrests are available with or without a Hook & loop strap and are available individually or as a pair. They can be used on straight, half wide or wide armrests.



Armrest Section

Padded Armrests

Padded armrests are used usually to reduce the width of the seat and/or to give support to the user while in the chair. All padding is available in 25mm, 50mm, or 75mm widths

The padded armrest consists of a metal armrest hooped forward with a standard armrest top, a ABS clip on and a supportive foam pad which attached to the ABS.



Padding is available in 25mm 50mm or 75mm thicknesses. Other depth pads available to special order

Padded style armrests are sometimes used, as well as to take padding, to assist in standing. Where a user of the chair finds it helpful to assist standing to grasp the front of the armrest, using padded style armrests can make this manoeuvre easier by allowing the hand to grasp that part of the armrest that is hooped downward at the front. If using padded style armrests to assist in standing, you should select the appropriate padded style armrest for the seat. A Standard seat will need a standard padded style armrest; an extended 50mm seat will need a padded style armrest extended forward 50mm etc. Using the metal armrest alone without the clip on ABS and pad can often achieve this effect

Armrests extended forward of this can be provided: usually as a hooped style armrest with a special frame with sockets on the front of the frame.

Retrofit Clip-on Padding

Retrofit Clip-on padding to fit standard armrests is available for any standard straight armrest. The upholstered padding is pre fixed to the ABS clip on and its depth cannot be altered. Padding is available in 25mm, 50mm and 75mm width. The overall length of retrofit padding is shorter than that which fits the padded style armrests



PAEDIATRIC ARMRESTS

Please note that the armrest sockets on the T90WC frame are shorter than standard and are level with the underneath of the frame, and therefore paediatric armrests need to be specified.

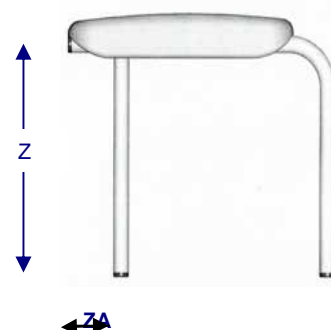
APS armrests are standard armrests lowered 75mm to give a seat to top of armrest height of 130mm (the equivalent of standard armrests lowered 50mm)

Paediatric Armrests	Standard (mms)	Custom (mms)
Z	215	
ZA	50	
NB. Seat to top of armrests dimension is 85 mm less than dim Z		

Be sure when ordering height alterations to paediatric armrests you make it clear the finished height you want, taking into consideration the different height sockets.

The best way to do this is to quote Dimension Z

Dimension Z is the top of the metalwork of the armrest to the base of the socket. This socket must be the socket on a T90WC frame that is level with the seat base,



Swing Away Thoracic Supports



Trunk Supports (see below) can often be too wide to support the thorax of a smaller person. In this case you may wish to use thoracic supports. These must be used with an extended backrest. They consist of a height adjustable straight or curved (your option) foam pad of small, medium or large which lifts up and flips away.

Swing Away Thoracic supports fitted to a T80 paediatric – shown with curved pads (small) in closed and open positions



Trunk supports

These provide support to the thorax and fit into armrest sockets on all chairs.

They comprise four parts: metalwork, abs cover, armrest padding and trunk padding.

All padding is available in 25mm, 50mm or 75mm padding, other sizes to special order.

Trunk Supports are available in 4 different sizes.



Trunk Supports in sizes other than the above are available but are often cost prohibitive because not only the trunk itself but the cover and padding need to be individually made.

Trunk supports without padding can be supplied if desired.

Trunk supports can be less successful with reclined backrests because a gap is produced between the trunk support and the backrest. In this case give consideration to lateral or thoracic supports.

SPECIAL ARMRESTS (including Special padded armrests)

For altered height please specify Dimension Z

For altered length please specify Dimension ZA (and a/r pad position if not standard).

Armrest support padding is available as clip-on or removable using hook & loop.

If you need to maintain the seat width of the chair but need padded armrests and cannot use the wider frame (ie. Using a 'B' width 490mm frame with 25mm armrest padding will preserve a 'C' seat width of 440mm) then is it possible for us to manufacture special armrests kinked outwards to take the padding, available on special quotation only.

The following armrests are stocked or on short delivery

Code	Description
AAH	Pair Side Access Half wide Armrests
AAS	Pair side access straight armrests
AH	Pair ½ Wide Armrests
AH75	Pair ½ Wide Armrests ext fwd 75mm
AHH50	Pair ½ Wide Armrests raised 50mm
AHL50	Pair ½ Wide Armrests lowered 50mm
AHP	Pair padded-style ½ Wide Armrests
AHPH50	Pair Pad. Style 1/2 Wide A/rest rsd 50mm
ALSL	Adjustable Lateral support for left side
APS	Straight Paediatric Armrests
AS	Pair - Straight Armrests
AS75	Pair Straight Armrests ext fwd 75mm
ASF	Straight Armrest - Fold up - one off
ASH100	Pair Straight Armrests raised 100mm
ASH50	Pair Straight Armrests raised 50mm
ASL50	Pair Straight Armrests lowered 50mm
ASP	Pair padded-style Armrests
ASPH50	Pair padded-style Armrests raised 50mm
ASPL50	Pair padded-style Armrests lowered 50mm
ASPX75	Pair padded-style Armrests ext fwd 75mm
AT100	Pair H/D side access arms for T100 frame
ATS1X1	Pair Trunk-Supports 125mm x 125mm
ATS1X2	Pair Trunk-Supports 125mm x 200mm
ATS2X1	Pair Trunk-Supports 200mm x 125mm
ATS2X2	Pair Trunk-Supports 200mm x 200mm
AW	Pair Wide Armrests
AW75	Pair Wide Armrests ext fwd 75mm
AWH50	Pair Wide Armrests raised 50mm
AWL50	Pair Wide Armrests lowered 50mm
AWP	Pair padded-style Wide Armrests

Backrests

- Available as standard with Horizontal or vertical handled backrests.
- Horizontal push handle has natural hand position for assistant.
- Vertical handled backrest avoids potential clashes with cisterns or allows shower chair to get closer to wall in small shower space.
- Auto Chairs have one piece pram handle backrest as standard.
- Backrests on all models except T90WC and T80P are detachable. Backrests on Auto frames are pram handled.
- All backrests fit into sockets on the frame and are secured by hand operated locking nuts (T80 Backrests are secured with 8mm Nyloc Nuts).
- NOTE – The chair should never be used without the locking nuts in position. Where a user is unlikely to need to remove the backrest, consider securing the backrest with 8mm nyloc nuts.



OPTIONS

- Reclined backrest 5 degrees, do not require alterations to rear wheels except on Clos o Mat models when only after this specific point has been considered in a risk assessment for the proposed user should a reclined backrest be used.
- Full vinyl gives increased support in the lumbar area
- Horizontal push handled backrests can be converted to pram handled backrests by adding a cross bar between the two horizontal push handles. This can aid propelling on wider models and also add to rigidity
- Extended backrest: available with option to add detachable head support. These backrests have screw in push handles to the rear of the frame at standard height
- Padding added to backrests can give extra support and comfort and can also position the user further forward on the seat.

Backrest Section

Backrests – Cont'd

The backrest supports the user by vinyl fitted above the armrests. The vinyl is pliable and feels to have some 'give' in it (although this is actually a small amount of movement in the metal over which the vinyl is fitted.). The backrest is generally comfortable without the need for extra padding. The vinyl is very tough and will not tear.

Auto models appear to the user to have slightly less 'give'.

All models except Auto models and T100 have a choice (as standard) of horizontal or vertical handled backrests, Auto models have pram style handles with no lower bracing bar. T100 have a cross bar fitted between the two uprights to form a pram handled backrest. The intrinsic strength of the pram handled backrests restricts the 'give' and provides slightly firmer support.

- ***Remember to order the width backrest to go with your chair. The backrest width will be the same as the seat /frame width except on 'C' Auto frames which take a 'B' width backrest.***

Special Backrests

Vinyl Alterations:

The vinyl on a standard backrest is strong flexible and comfortable. Increasing the width of the backrest vinyl (a 490mm backrest would be put on a 440mm backrest frame), increases the 'sag' of a user into the chair and can aid comfort and security.

NOTE: Increasing the sag on the vinyl is equivalent of increasing the recline on a backrest and consideration should be given to the effect this would have on the centre of gravity of the chair. Oversize vinyl should not be fitted to a reclined backrest unless the wheels on the frame have been set back

Metalwork alterations:

- Extended backrest
- Reclined backrests. A recline in the backrest over 5 degrees necessitates a frame with rear wheels set back. 75mm is the usual amount by which rear wheels are set back except in the case of a T70, where they should be set back 25mm

NOTE. You must check that setting the rear wheels back will not interfere with the fit of the chair over the toilet where it is to be used.

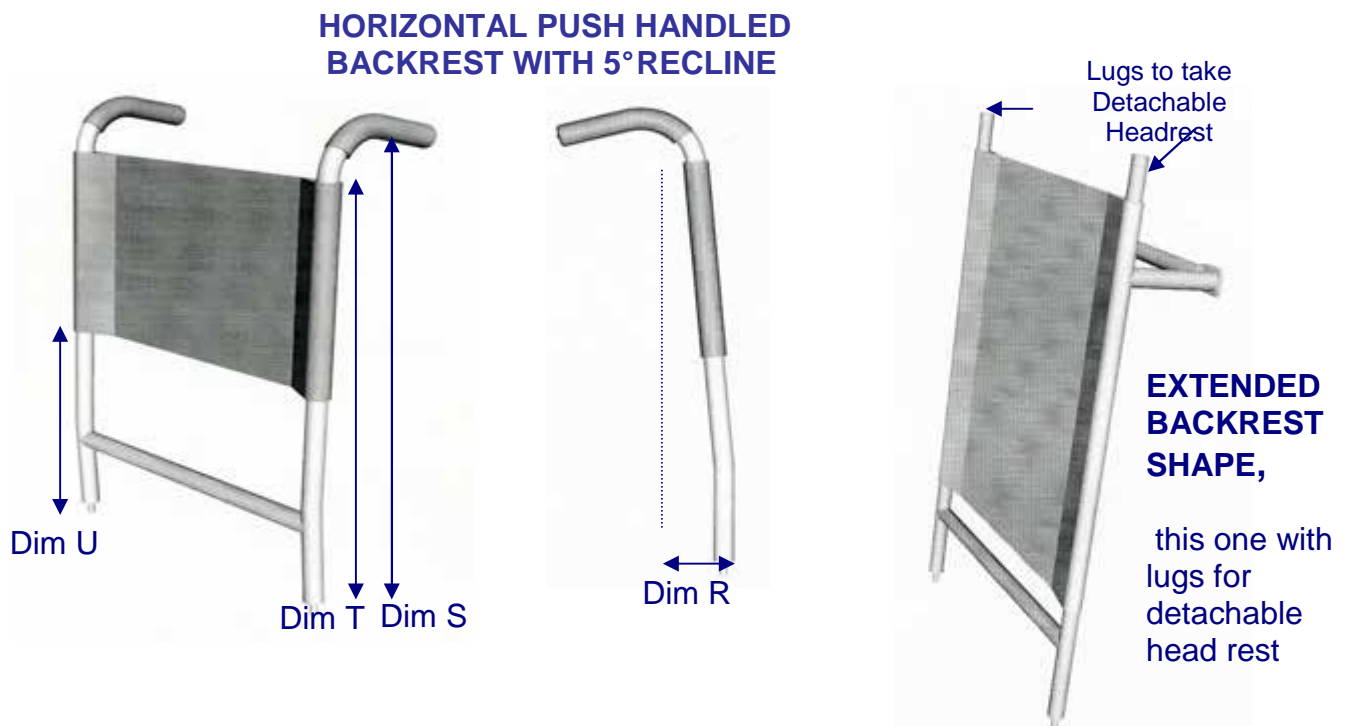
Backrests – Cont'd

Is the chair obstructed from moving far enough back so that the centre of the aperture of the chair is over the centre of the toilet bowl? - If so, you will need to arrange to move the bowl away from the wall

Remember for a T90WC and T80P you must order a special frame if a different backrest is required. A T90WC has horizontal push handles as standard. A requirement for vertical handles will require a special frame.

Raise or Lowered Metalwork & Vinyl

Any increase in vinyl height will require raised metalwork. If the increased height of vinyl required is more than 50 mm, then in order to maintain the handle height at a standard usable height, the extended backrest shape is used and you will require screw in handles (as shown in the extended backrest below).



Dim	Standard Backrest - Description	Standard Measurement mm
R	Distance from backrest to vertical line from top of vinyl (i.e angle)	0
S	Height from backrest base to underside of horizontal Handle	550
T	Height from backrest base to top of vinyl	495
U	Height from backrest base to bottom of vinyl	245

Backrests - Continued

An extended backrest can be raised a minimum of 150mm to make Dimension T 640mm.

If you do not specify you want lugs to take a detachable headrest, then you will not receive them.

Standard Dimensions for a Recliner backrest are:

T= 640mm

R = 40mm (equal to approximately 5 degree recline)

S= 550mm

With Lugs to take detachable headrest

Remember any more than 5 degrees recline on any backrest (R = 40mm) requires rear wheels to be set back. If a higher recline than 5 degrees is required on a T80 recliner, the tilt action will be restricted accordingly to make an overall degree of recline a maximum recline of 45 degrees.

Dim	Recliner Backrest – Description With Lugs to take detachable headrest	Standard Measurement mm
R	Distance from backrest to vertical line from top of vinyl - approx 5 degrees	40
S	Height from backrest base to underside of horizontal Handle	550
T	Height from backrest base to top of vinyl	640
U	Height from backrest base to bottom of vinyl	150

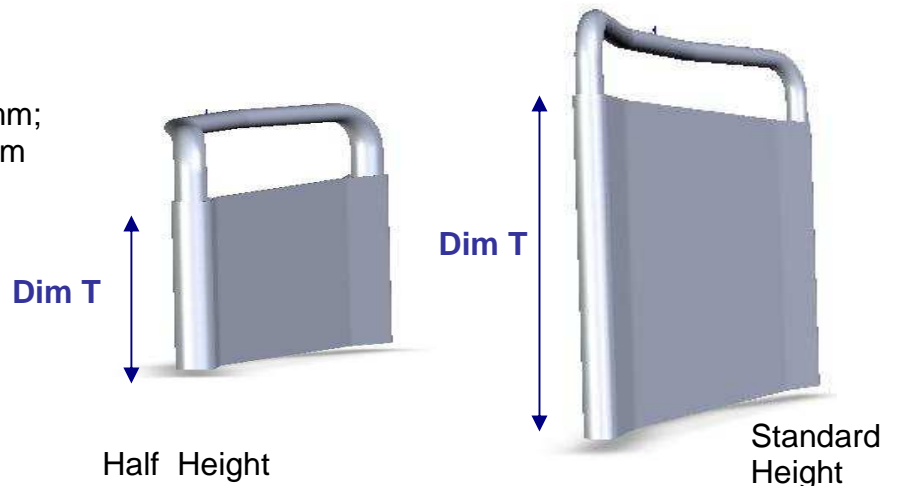
Note: For most users a full height backrest without a detachable headrest will be T = 900mm; tall bodied users may require more height

Detachable Headrests

Detachable headrests are supplied in four widths (A – 540mm, B, 490mm and 'C' 440mm & Paediatric 356mm) The headrest must be selected to suit the backrest, not the frame.

Two heights are available:

Full height: T = 300mm;
Half Height T = 150mm



Half height headrests are generally selected for children. The detachable headrest fits over the lugs of an extended backrest and is secured in position by two black hand-nuts. It is more useful than a same height extended backrest because it allows a full harness to be used over the backrest and the ability to remove the headrest can be useful amongst other reasons for bathing and showering the user's head and neck.

If it is intended to use either flat padding or a curved padded head support on the headrest you must remember to order your detachable headrest WITH VELCRO. The 'loop' or furry side of the Velcro will be welded to the vinyl so that the headrest can be used without the padding or head support if desired.

All padding is attached to the backrest or headrest by Velcro. Accordingly it cannot be retrofitted unless the backrest/headrest already has Velcro on it.

Backrest Padding

Requires full height vinyl. Used both to increase comfort and also to bring the user closer to the front of the chair.

Available in 25mm, 50mm, 75mm thicknesses. Thicknesses greater than 75mm available on special quotation.

Sometimes backrest padding is used to aid positioning of user, and wedges can be attached to the backrest. Minimum dimensions for wedges are as follows:

100mm x 50mm x 50mm



Headrest Padding

Flat padding for headrests is available in 25mm, 50mm or 75mm thicknesses and extends over the whole of the headrest.

If using 50mm or above padding, you should pay attention to the angle of the user's head that this will produce, as the thicker the padding, the more forward the head will be. On a reclined backrest of course, the effect of the thicker padding is reduced

A curved padded head support is also available. The base of this is completely covered in Velcro and so can be positioned at any height or any angle on the detachable headrest to suit the user.



The following backrests are stocked or on short delivery:

B365PH	356mm Wide Push Handle Backrest
B365VH	356mm Wide Vertical Handle B/R
B590PH	590mm - Pram Handle Backrest
B790PH	790mm wide PHBR to suit T100 Frame
BADH	A - Detachable Headrest
BADH150	A - 1/2 std height Detachable Headrest
BAPH	A - Push Handle Backrest
BAPH640	A - Push Handle Backrest ext T=640
BAPH640DH	A-PHBR ext T=640mm to take Det. HR
BAPHA	A - Push Handle Backrest / fold up arms
BAPHC	A - Pram Handle Backrest for COM chair
BAPHCA	A - Pram Handle B/rest COM 4 flip up arm
BAPHPRAM	A - PHBR to take PRAM Handles
BAPHR	A - Push Handle B/rest Reclined 40mm
BAREC	A RECLINER B/Rest Ext T=640 R=40 Det H/R
BAVH	A - Vertical Handled Backrest
BAVHA	A - Vertical Handled B/rest 4 flip up arm
BAVHR	A - Vertical Handled Backrest Reclined 40mm
BAXREC	A - 540mm pram handle for Backrest
BAXRECC	A - Curved Pram Handle for T80COM
BBDH	B - Detachable Headrest
BBDH150	B - 1/2 std height Detachable Headrest
BBPH	B - Push Handled Backrest - (490mm wide)
BBPH640	B - Push Handled B/rest Extended T=640mm
BBPH640DH	B-PHBR Ext T640 STD vinyl to take D/H/R
BBPH640R	B - Push Handled B/rest Ext T640 R=40mm
BBPH900	B - Push Handled B/rest Ext T=900
BBPHA	B - Push Handle Backrest / fold up arms
BBPHC	B - Pram Handle B/rest 4 auto bidet chair
BBPHCA	B - Pram Handle B/rest COM 4 flip up arm
BBPHR	B - Push Handled B/rest Reclined 40mm
BBPRAM	B - PHBR to take PRAM handles
BBREC	B RECLINER B/Rest Ext T=640 R=40 Det H/R
BBVH	B - Vertical Handled Backrest
BBVHA	B - Vertical Handled B/rest 4 flip up arm
BBVHR	B - Vertical Handled Backrest Reclined 40mm
BBXREC	B - 490mm Pram handle for Backrest
BBXRECC	B - Curved Pram handle for T80 COM
BCDH	C - Detachable Headrest
BCDH150	C -1/2 std height Detachable Headrest
BCPH	C - Push Handled Backrest
BCPH640	C - Push Handled B/rest Ext T=640mm
BCPH640DH	C - P/Handle B/rest Ext. T=640mm Det H/R
BCPH640R	C - Push Handled B/rest Ext T=640 R=40mm

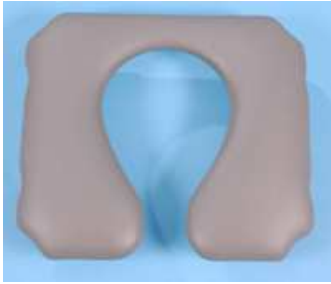
Backrest Section

The following backrests are stocked or on short delivery - Cont'd

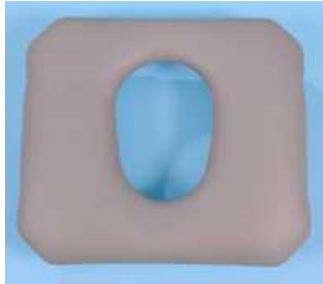
BCPH900	C - Push Handled B/rest Ext T=900
BCPH900R	C - Push Handled B/rest Ext T=900 R=40mm
BCPHA	C - Push Handle Backrest / fold up arms
BCPHC	C - Pram Handle Backrest for COM chair
BCPHR	C - Push Handled B/rest Reclined 40mm
BCPRAM	C - PHBR to take PRAM Handles
BCREC	C RECLINER B/Rest Ext T=640 R=40 Det H/R
BCVH	C - Vertical Handle Backrest
BCVHA	C - Vertical Handled B/rest 4 flip up arm
BCVHR	C - Vertical Handled Backrest Reclined 40mm
BCXREC	C- 440mm pram handle for Backrest
BCXRECC	C - Curved Pram Handle for T80 COM
BOTS	Thoracic Support fixings Small/Med pads
BPDH	Paediatric Detachable Headrest
BPDHV	Paediatric Det Headrest with Velcro
BPXREC	Pram Handle for Paediatric Recliner

Seats

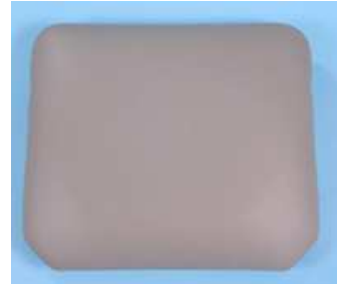
There are 3 types of seat configurations:



Horseshoe



Full Ring Aperture



Flat Padded

General

- There are two designs of seat: Standard and Auto. The design differences relate to the fitting to the frame. Non-extended Standard seats are interchangeable with other standard seats of the same frame width. Auto seats are also interchangeable with each other. Standard and Auto seats are not interchangeable.
- The Standard seat is available with commode runners (or by special order with a 50mm skirt to fit a COM chair).
- Auto seats have skirts (see below).
- All seats are padded with 50mm of dense comfortable foam, covered with a high performance anti-bacterial vinyl. Seats are fitted to the frame and are secured with four black plastic securing locks situated at the front and back of the seat.
- Seats (not side opening) are available in three configurations as standard. Horse Shoe, Full Ring and Flat Padded and in three different widths to suit the frame. Seats have a standard depth of 400mm. Paediatric seats have a standard depth of 325mm.
- All seats can be extended by 50mm and 75mm to the front to provide additional support. Any extension beyond 75mm is a special order and requires a frame alteration. On extended seats Dimension 'D' remains the same.
- All non-extended seats are reversible.

Seat Section

Seats - Continued

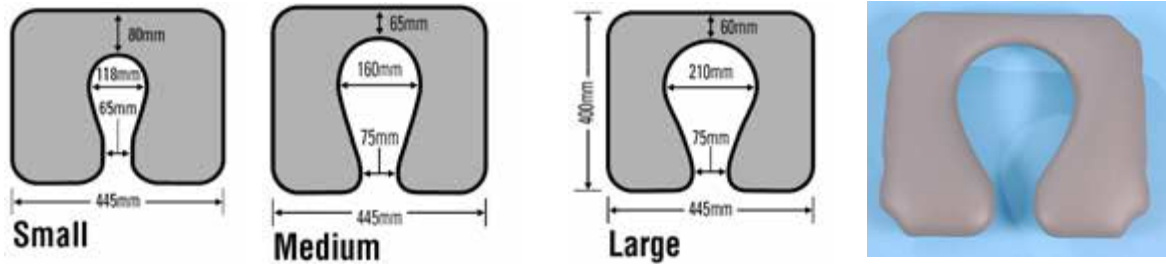
- All standard seats (except COM/AUTO models, Side Opening seats or Paediatric seats) are supplied with commode pan runners to take a Freeway Commode Pan.
- Auto seats are supplied with a 70mm skirt and on horse shoe seats, with a magnetic closing. Total Hygiene recommends a 50mm skirt and no magnetic closing for use on their Samoa and Palma Vita models. Accordingly when ordering an AUTO seat to fit either of these models, you should state this. The factory will then trim the skirt to 50mm and remove the magnetic closing. Skirts can be cut to 20mm or extended to 95mm if required.
- Commode pan runners should not be fixed to seats with skirts. In order for the automatic bidet to be most effective, a minimum gap (aim for 10mm) between the toilet bowl and the base of the seat is desirable. In order to accommodate commode pan runners, this gap has to be increased to 30mm. For reasons of hygiene, it is not desirable for the seat skirt to enter the commode pan. The alternatives are to have two seats, one with commode pan runners and one with a skirt. Alternatively, a commode pan tray to take a commode pan can be fitted to the frame.
- All standard Auto and Special seats can be covered with 'Dartex', a bio compatible waterproof fabric which moulds more easily to the user's shape and can be found to be pressure relieving for some users. Dartex covered seats are more susceptible to damage than standard vinyl which should be pointed out to the user and/or orderer at time of assessment.
- In addition, Extra Comfort padding can be specified in conjunction with the Dartex. This is NOT pressure relieving foam, but is a slightly less dense layer of foam added to the standard foam. NB It will cause a slightly more domed effect to the seat.
- For seat alterations see Special Seats below



Washing and Care Instructions

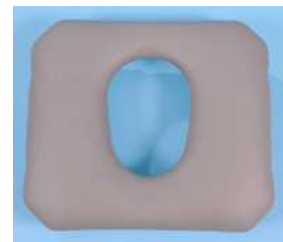
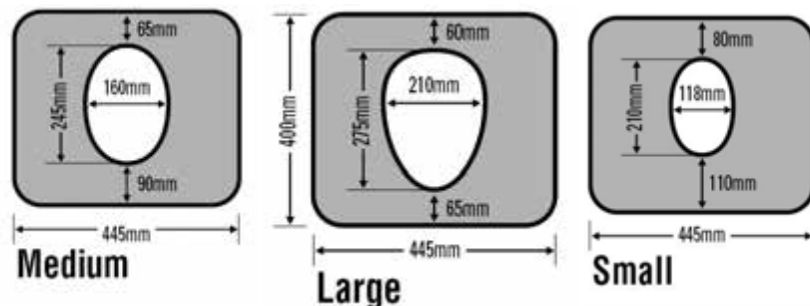
- Wipe clean and dry as much as possible after use.
- Once a week or more often as necessary, clean with an all purpose cleaning fluid or mild disinfectant, rinse, then wipe dry as much as possible.
- DO NOT DROP THE SEAT AND DO NOT JET WASH OR AUTOCLAVE

Horseshoe Seats



- Horseshoe seats are supplied in large, medium and small apertures, with opening at the front. All dimension horseshoe seats are available as AUTO seats with a 70mm skirt and magnetic closure. (but see comments under 'general' above for Palma Vita models).
- Left and right hand side opening chairs require horseshoe seats as standard. Large medium and small apertures and extended seats are available. Left or right side opening must be specified when ordering as these seats are not reversible.
- On Left and right hand side opening seats the neck of the horse shoe is approximately 100mm.
- Left and right side opening seats do not have pan sliders unless ordered specifically (extra charge).
- Horse shoe seats cannot be used with standard pommels (but see removable pommels under 'special pommels' below).
- Non-extended horse shoe seats are reversible but the backrest bar and bar at rear of frame will restrict access.
- Paediatric seats have small aperture or small horseshoe as standard.
- Paediatric seats do not have pan sliders (removable pan sliders are on the frame)

Aperture Seats



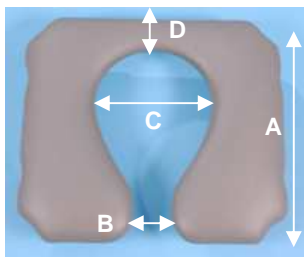
- Full ring aperture seats have three sizes of aperture available and 50mm and 75mm depth extensions.
- Auto aperture seats have 70mm skirt for use with Automatic bidets (but see comments under 'general' above for Palma Vita models).
- Paediatric seats have small aperture or small horseshoe as standard.
- Paediatric seats do not have pan sliders (removable pan sliders are on the frame)

Fully Padded Seats



For use with chair as shower chair only- available in three widths plus paediatric in standard depth and extended 50mm and 75mm.

Special Seats



Dimensional changes:
(all dimensional changes have a tolerance of +/- 10mm)

- Increasing depth of seat (Dim A) over 475mm or decreasing less than 400mm will require a special order **and also a special frame**.
 - Note extending a seat depth by 25mm (i.e. Dim A = 425mm) is a special seat both as to order and price.
 - In Horseshoe Seats we can increase the size of the neck of the horseshoe (Dim B) up to 160mm on a C width chair (210mm for B width 260mm for A width). Dim B can be reduced only to 65mm.
 - Dim D cannot be decreased to less than 60mm.
 - Aperture can be moved forward 25mm on a standard seat depth of 400mm in order to increase the Dimension D at the rear of the seat. The aperture can be moved comparatively further forward on extended seats.
 - Dim C (width of aperture) can be increased up to 260mm on a C width chair. This is the maximum dimension for Dim C in order to be able to use a standard commode pan. Dim C can be increased beyond 260mm on widths of seat over 440mm but these seats will not be supplied with commode pan runners.
- Note:*
There is often a perception that larger users require a larger aperture, whereas in fact opening the neck of the horseshoe (Dim B) often provides the access required and retaining a smaller aperture size gives more support.
- The position of the aperture does not have to be central to the seat, so windswept positions can be catered for. When ordering such a seat, be sure to include a clear diagram indicating the position required and labelling the front of the seat.
 - Horse shoe seats can be extended on one side only if required often useful for single amputees. Depending on length of extension, a frame alteration maybe required.
 - Skirt can be cut to 20mm or extended to 95mm if required.

Seat Padding

Alterations in padding can assist the user by increasing comfort and/or as a positional aid. Padding can be altered by increasing or decreasing foam content over the whole of the seat or selected areas. For example, padding wedged up at the front can help prevent a user from sliding forwards. Building up padding at the front of the chair to form a type of pommel under the vinyl can assist in maintaining leg abduction.

Reduced padding is available:

- No padding
- 6mm
- 12mm
- 25mm

Surprisingly, using 25mm padding actually give some users a softer feel in the seat because when upholstered the reduced padding gives a smaller crown to the seat and the foam is not as compressed as it is on a standard seat.

Increased padding is available (up to 100mm in total in 25mm increments) but is most effective in wedges. Increasing the depth of the padding will not mean the seat will be raised by the increase in foam depth due to the foam being condensed during the upholstery process. It is therefore not the method of choice for raising seat height. If ordering increased padding, please state clearly if the intention is to raise the seat height.

- All standard seats have 50mm of padding.
- Padding can be increased to a maximum of 100mm total
- Padding can be decreased to a minimum of 6mm
- Padding can be wedged to a maximum height of 100mm foam and to a minimum depth of 25mm.

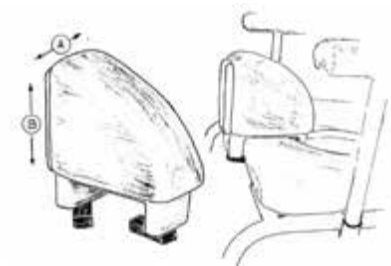
Seat Coverings

- Dartex is a breathable waterproof bio-compatible PVC coated fabric which allows some stretch in the fabric. This means a seat covered with Dartex will mould more easily to the user's shape and can be found to be more comfortable for some users. For maximum assistance with pressure, Extra Comfort padding can be specified in conjunction with the Dartex. This is NOT pressure relieving foam, but is a slightly less dense layer of foam added to the standard foam. NB It will cause a slightly more domed effect to the seat.

Dartex covered seats are more susceptible to damage than standard vinyl which should be pointed out to the user and/or specifier at time of assessment.

Pommels

- Only suitable for aperture seats (except for special order)
- A pommel is fitted to the seat by fitting over the centre front of the seat and is secured in position by two black locking nuts which lock the pommel underneath the seat.
- It is generally not practicable to fit a pommel when the user is already sitting in the chair and may therefore be found to be most applicable to hoisted users. (but see removable pommels under special pommels section).
- Because the pommel fits over the front of the seat and the seat dimension at this point alters according to the size of the aperture, the correct pommel for the size of seat aperture must be used. However, the width of the seat is not relevant. Accordingly a pommel to fit a medium aperture seat will fit an A, B or C width seat (not paediatric) but a separate pommel will be needed for a small aperture seat or a medium aperture seat extended 50mm or 75mm etc.
- The width of the pommel (Dim A) is 80mm
- The height of the pommel (Dim B) is 120mm
- Remember to state on order full description of seat including width of seat size of seat aperture and whether or not the seat is extended.

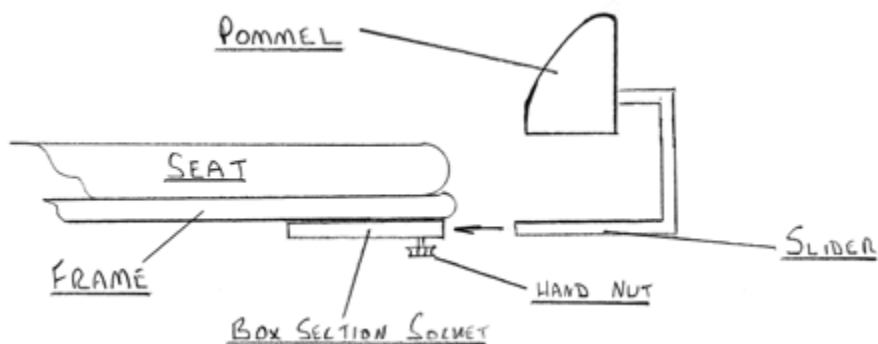


Seat Section

Special Pommel Orders

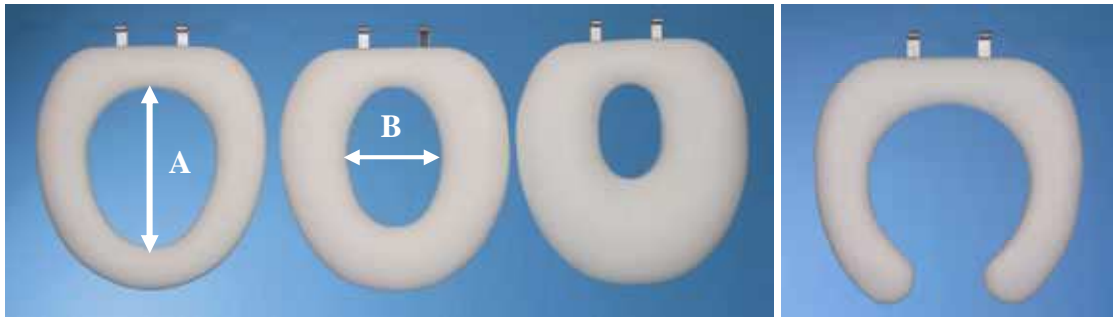
Examples of special pommels:

- Different widths
- Different heights
 - For variations in excess of 20mm please check with Freeway before final design that your proposed variation is practicable.
- Removable pommel: where it is desired to position the pommel after the user is seated in the chair it is necessary to have a special pommel and a frame alteration. Because the pommel is usually only used with an aperture seat, the two front seat supports of the frame are replaced by an unbroken continuous bar to which a socket is attached. The special pommel assembly is then fitted into the socket and secured when in position by a hand nut.
- It is possible to fit a removable pommel to a horseshoe aperture seat – in this case a socket is fitted to one or both of the front seat supports and the pommel fitted as above. Again, a frame alteration is required.



The length of the slider is restricted so as not to impact on the aperture for toileting.

Freeway Range of Toilet Seats



Adult	Junior	Child
A = 270mm B = 220mm	A = 240mm B = 160mm	A = 160mm B = 110mm

These toilet seats, padded with 50mm foam and covered with anti-bacterial tough, high performance vinyl in a choice of grey or white, to fit standard W.C's

THEY DO NOT FIT FREEWAY SHOWER CHAIRS but special frames can be manufactured to take either these seats or a standard W C seat

- All seats are supplied with stainless steel fixings to fit on standard WC.
- There are two types of seat available - horseshoe or full ring aperture - with a choice of aperture size.

SPECIAL ORDERS

- Foam can be wedged or pommelled (see 'Padding' under standard seats above)
- Seats can be covered in Dartex (see 'Padding' under standard seats above)

Footrests



STANDARD	T90 STYLE	T100FR
----------	-----------	--------

Standard footrests are:-

- Detachable,
- Swing away,
- Height adjustable
- Flip up footplates.



Each footrest consists of a left or right footed white coated hanger, which attaches to the chair frame over the footrest pin on the frame, and a stainless steel left or right footrest slider to which the footplate is attached.

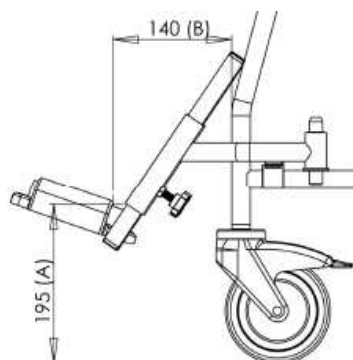
Footplates are set at an 18 degree angle to the floor to give a natural foot position. Most footplates supplied after 2006 are pre slotted to take toe straps.

Footrests adjust from floor to 195mm at the heel. Footrest sliders are 265mm long.

The heel of the footrest is 140mm forward of the front of the frame when in its highest position.

*Note: on standard footrests the heel of the foot rest can be manufactured to be brought back closer to the frame by 60mm **only on chairs with un-braked front castors***

Standard footrest

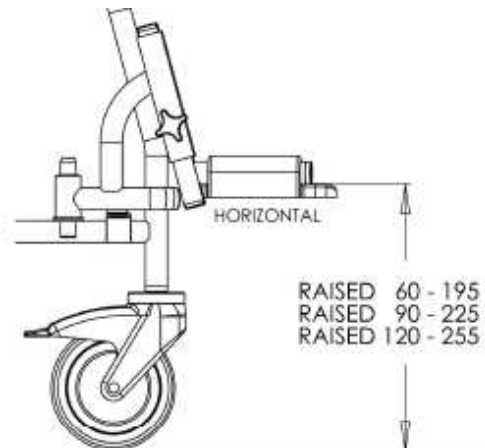


Footrest Section

Footrests - Continued

Raised Footrests

These are available raised from standard by 60, 90 and 120mm. Raised footrests have horizontal footplates and shortened footrest sliders (180mm).



Recliner footrests

These are height adjustable, removable and have flip up footrests with heel supports as standard. The long inners (380mm) attach to the outer frame by location in the socket on that frame. If the maximum height of 250mm from the floor is too low then a special outer frame with individually designed sockets welded to it will be required.



Heavy Duty Footplates

These are made from heavy duty cast aluminium alloy. They are suitable where the user is liable to put excess weight on the footplate which would overload a standard footplate. Where a user is liable to put significant weight on the footplate while still sitting in the chair (for example whilst positioning to stand) then a heavy duty clip can be manufactured to special order.



Note: Neither standard or heavy duty footplates are designed for the user to stand on. Standing on the footplate will either break the footplate or the attachment pin or tip the chair.

Footrests – Continued

Adjustable Angle Footrests

Footrests can be adjusted to 5 preset angles to allow the feet to be angled either forwards or backwards up to an angle of 18 degrees.



Heel and Toe Straps

Toe straps are fitted to footplates by Velcro fastening underneath the footplate. Standard and paediatric sizes are available. The Velcro fastening over the foot allows adjustment for individual comfort whilst assisting in keeping the user's foot in position. Buckle fastening toe straps are available on a special order. Toe straps can be retrofitted if the footplate has slots north to south when facing the chair. (This will not be the case on T90 style footplates and special order footrests will be required to take toe straps on T90 footplates).



Heel straps are supplied as standard on recliner footrests and T100 footplates. They are not retro-fittable without tools. The heel strap is made of a flexible plastic material and comfortably holds the user's foot from sliding backwards.

Special Foot Supports

Full ankle supports

In order to assist in maintaining foot position where a toe strap is inadequate a full ankle support may be the solution. These are available in junior, small, medium, and large. They can be fitted therefore, to new or existing footplates, providing the footplates are pre slotted with the slots in a north/south orientation when facing the chair. (not T90 style footrests). The ankle supports are made from soft but supportive polyester spacer material and secured to the footplate by Velcro fastenings. The straps securing the foot in the ankle support are adjustable and buckle fastening.



Full foot support

Where support for the whole of the foot is required, a full foot support can be attached to the standard footplate. Toe straps can be fitted but are not supplied as standard, the foot support is covered in a thin dense foam which is warm to touch. Not retro-fittable but only a new foot rest inner needs to be supplied. Remember when ordering an inner only please specify whether for standard, recliner or raised footrest.



Footrests – Continued

Sandal foot support

In order to give full foot support and the ability to maintain foot position this option may be the solution. The sandal itself is moulded to give heel support and has two buckle fastening securing straps. Not retro-fittable but only a new foot rest inner needs to be supplied. Remember when ordering an inner only please specify whether for standard, recliner or raised footrest.



Footrest covers

Some users find the pattern on a standard foot plate (which is designed to provide grip in normal usage) is uncomfortable. There are two options of material to alleviate this situation.

- 1 Dartex foot plate covers – Slip On
These covers are made from Dartex – a breathable bio compatible material which is both wipe clean and washable. They slip over stand foot plate covers and generally require no fastening in position. They are not suitable for use with toe and heel straps.



Dartex foot plate covers – Velcro
Made from the same Dartex material, these covers Velcro underneath the footplate between the fixing points for the heel support and toe strap slots.

- 2 Vinyl foot rest sleeves –
Same Options as the Dartex covers but made using the same vinyl material as used on the seats.

Footrests – Continued

Foot trays

Clip on padded foot trays are supplied: -

- (i) to increase comfort for the user or to prevent spasm where sensitivity to the grip on the footplates exists or
- (ii) in the case of a full width padded foot tray, to prevent the users foot moving into the gap between the footrests.

Clip on padded foot trays attach to standard or raised foot rests. They are not suitable for use with toe or heel straps. The heel strap on a recliner foot rest can be removed either in the factory or using a Phillips screwdriver where it is desired to use a foot tray.

- Foot trays to suit individual or both foot rests together are available. All clip-on foot trays are retro-fittable.
- Foot trays need to be ordered to suit width of frame and you must specify when ordering whether to suit standard, recliner or raised foot rests.
- When a padded foot tray is ordered with an order for a new T80, the heel support(s) will be removed in the factory before delivery unless otherwise specified. If only one individual foot tray is required on the T80 remember to specify which heel support needs removing by reference to the leg of the user. If not specified no heel supports will be removed.

Individual clip on foot trays

There are two models of individual foot rests, one to fit standard foot rest and the other to fit heavy duty foot rests.

NOTE: T90 style footplates will need special order individual clip on foot trays



Footrests – Continued

Clip-On Padded Foot Trays for Both Feet

These trays are used both for comfort and to provide a continual foot support for the user. This can be useful if the user's foot is liable to move across into the gap between the foot plates. When in position the foot plates are height adjustable and removable but any other movement will require the foot tray to be removed.



These foot trays need to be ordered to fit the size of the frame and for standard or raised foot rests. Clip on padded foot trays to fit raised foot rests are wider than standard will not fit standard foot rests. There are different trays for standard and heavy duty foot rests.

Clip on padded foot trays for both feet with depth extended by 50mm are available on special order.

Clip on foot trays without padding are available on special order.

Footrests – Continued

ABS foot trays

These are available in standard or padded versions. The ABS foot tray extends the entire width of the chair and is attached to the frame by hangers which are attached to the foot rest pins on the frame but do not have the swing away retaining clip of the standard foot rest hanger. The ABS foot tray provides 250mm of support for the whole foot, and has a 40mm lip at the rear of the tray.



Standard ABS Foot Tray

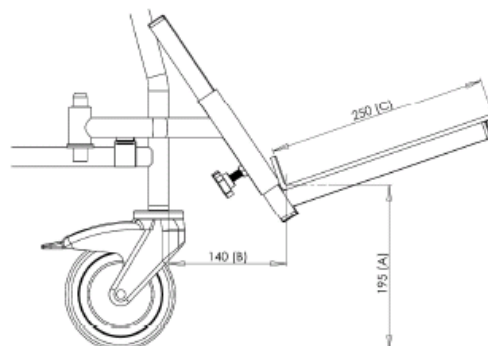
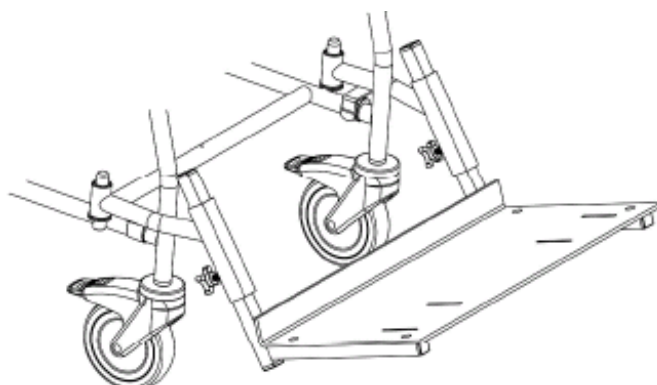


Padded Foot Tray

The ABS foot tray is best used with hoisted users as it can be difficult to fit with the user already in the chair and standing on the ABS foot tray will tip the chair. Toe straps can be fitted to the foot tray.

Be sure to order the foot tray by reference to the size of the chair frame i.e. “ABS foot tray to fit C width frame”, (as an order for a 490mm ABS foot tray would produce a foot tray that would fit a C width not a B width chair frame).

Special size ABS foot trays with different depths and rear lip heights are available on special order.



Footrest Section

Footrests – Continued

Leg Supports

Adjustable leg support

There are two types of adjustable leg supports

- one to fit standard chairs and
- one to fit T80 recliners.



The standard chair support fixes to the foot rest pin on the frame, the recliner adjustable leg support fits into the square socket on the outside of the outer frame of the T80.

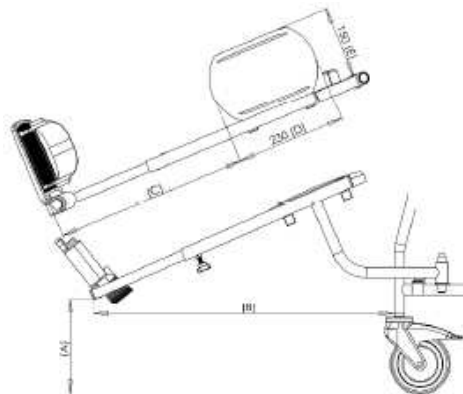
The adjustable leg support consists of a pad 150mm x 220mm to support the calf and a footplate with heel support. The leg support adjusts both in length and angle by operating a pinch knuckle. The leg support adjusts

Bottom position: Footplate horizontal and the calf support pad vertical

Top position: Entire leg support is 18 degrees below the horizontal.

When ordering remember to specify for left or right leg. Left leg is for the left leg of the user. Two adjustable leg supports can be used at the same time.

Fixed position leg support: this can be supplied where the adjustable leg support gives insufficient support or a position not offered by the adjustable leg support is required. This can only be supplied if dimensions A, B & C are given.



When ordering leg supports it is essential that the frame and seat for the chair are specified

Footrests – Continued

Leg supports for both legs – fixed position:

With Pad:

A padded leg support for both legs can be manufactured with dimensions specified by orderer. This leg support is generally heavy and is not suitable to attach to the foot rest pins, as the long arms required to reach the foot rest pins are inclined to flex. Accordingly we recommend use with a specially adapted frame which has sockets on the front of the front legs to take the double leg support. As the application of the sockets on such a frame is made on a one off basis to suit the particular leg support if ordering a new leg support for a specially adapted frame we will require the adapted frame returning to us with the order for the new leg support. A padded leg support for both legs is only suitable for a hoisted user. This leg support will not be supplied with foot plates unless specifically requested. This leg support is by quotation only – please specify length of seat and height of frame with which it is to be used in addition to the leg support dimensions.

Note this leg support is attached to footrest pins – not standard construction. Best attached to new sockets as in vinyl leg support below



With Vinyl:

We can supply a fixed leg support for both legs with vinyl. The vinyl is pierced to allow drainage of water, the leg support is supplied with no foot plates but is often specified with foot plates and heel supports or more commonly with an ABS foot tray. Because this leg support is lighter than that with a pad, it can be ordered to fit to foot rest pins if required but use with sockets on the front of a specially adapted frame is the preferred method of manufacture. Leg supports manufactured to fit sockets will not fit on foot rest pins.



Note: This leg support is often used with an ABS foot tray on the base as in the photo. If this is desired, it must be ordered in addition – not supplied as standard



The above leg supports are by quotation only – please specify length of seat and height of frame with which it is to be used in addition to the leg support dimensions.

Footrests – Continued

Stump Supports

Available:

1. Adjustable stump support for one stump.
2. Fixed stump support for one stump.
3. Fixed stump support for two stumps (recommended fitting to frame with sockets specially fixed to front of front legs).

Note: Remember we can manufacture an extended seat with a appropriately length of frame which can be an alternative to a stump support. Seats can be extended for one or both legs.



Double Fixed Stump support



Single Adjustable Stump Support

Footrests – Continued

Footrest and Leg Support early delivery

G	Pair - Standard Footrests
G120	Pair Footrests raised 120mm
G60	Pair Footrests raised 60mm
G90	Pair Footrests raised 90mm
GABS	Pair ABS Foot Tray hangers
GABS19	ABS Foot tray 540mm wide for B frame
GABS21	ABS Foot tray 590mm wide for A frame
GABSH60	Pair ABS Foot Tray hangers raised 60mm
GABSH90	Pair ABS Foot Tray hangers raised 90mm
GB90	Pair Standard footrests Dim B=90mm
GHO	FOOTREST HANGER ONLY
GLSL	Leg Support Left Leg (Adjustable) std frame
GLSLREC	Leg Support Left Leg (Adjustable) T80 frame
GLSR	Leg Support Right Leg (Adjustable) Std Frame
GLSRREC	Leg Support Right Leg (Adjustable) T80 Frame
GT	Add toe straps to footrests (pair)
GT100	Pair heavy duty footrests for T100 frame
GW	Counter Balance weights
PGAL	Full ankle Supports Large
PGAPS	Paediatric Full ankle Supports Small
PGAS	Full ankle Supports Small
PGS	Pair of padded Footrest Sleeves

Positional Aids

The Freeway shower chair has a range of options to assist in positioning the user.

Consider the following aids covered elsewhere within this document:

1. Padded armrests
2. Trunk supports
3. Lateral supports
4. Thoracic supports
5. Gutter armrests
6. Alterations in seat padding
7. Pommels
8. Backrest padding
9. Toe straps
10. Heel supports
11. Full ankle supports
12. knee block

Straps & Harnesses

The following straps and harnesses are available:

1. Waist straps
2. Pelvic straps
3. Mesh chest straps
4. Full harnesses
5. Knee block

NOTE: Ref: MDA/2008/037

- **Ensure that all straps / harnesses for the shower seats are fitted, Adjusted, Used, Cleaned, Checked and Maintained with the Manufacturers Instructions.**
- **Ensure that guidance on how to check, adjust, clean and maintain each strap / harness is passed on to the user or carer.**
- **Before each use, ensure that the strap / harness is in a satisfactory condition, is appropriate for the user, and is adjusted correctly.**
- **Ensure that reviews of the individual's needs include consideration of the appropriateness of the strap / harness for the user and carers.**

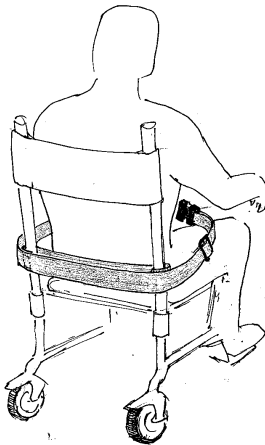
Great care should always be taken to correctly fit all straps and harnesses particularly waist bands and pelvic straps to ensure that it is not possible for the user to slip down through the strap/harness.

Waist Straps

The waist strap consists of a length of 50mm washable nylon webbing with a buckle or Hook & loop fastening at the extremities, and an extra length of webbing around the back of the strap sewn at one end and with Hook & loop fastening on the other to form a loop.



The waist strap is secured around the backrest of the chair by closing the Hook & loop loop on the user side of the backrest. **It is important that the continuous webbing is fitted around the outside of the backrest (see diagram).**



The waist strap is then fitted around the waist of the user with a choice of buckle or Hook & loop fastening. The buckle is opened by a pinch action and is closed by inserting the male part of the buckle into the female part of the buckle. Waist straps are ordered by reference to the width of the frame i.e. A 540mm, B 490mm and C 440mm. The overall length of the waist band is as follows:-

If extra length is required then a special order should be made stating the overall length of the strap in preference to the waist measurement of the user as length of the strap depends on the seating position of the user. At least 200mm of Hook & loop overlapped is desirable; buckle fastenings generally have more adjustment than the Hook & loop straps.

A waist strap is intended only as a gentle aid to assist users to maintain their position. It is generally not suitable for a user subject to spasm or a very active user (and never Hook & loop fastening in these cases). An assessment should be made where the waist strap is intended to prevent the user from sliding down the chair. There have been several situations reported with other manufacturers' waist bands when users have slid down through the waist band resulting in choking. Another form of strap or harness might be more appropriate in these cases.

A comfort pad can be added to the strap to give additional padding between the strap and the user's skin.

Waist Straps - Cont



Hook & Loop Waist strap

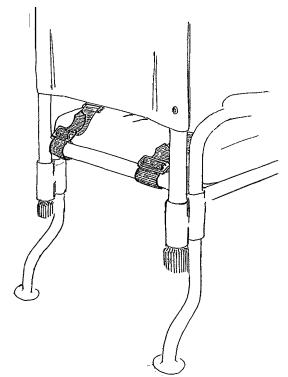


Buckle Fix Waist Strap

Pelvic Straps

Pelvic straps consist of two pieces of 50mm webbing attached to each other by a pinch release buckle. The straps attach to the frame of the chair by threading the belt around the back bar of the frame (or on the side of the frame towards the rear of the seat position) and securing through a buckle. Diagram shows a strap attached to the rear of the seat – backrest is a pram handle type without a bottom cross bar.

Because of their position the pelvic strap fastens very low around the user and in some cases can prevent slipping down in the chair.



A comfort pad can be added to the strap to give additional padding between the strap and the user's skin.



Buckle Fix Pelvic Strap

Mesh Chest Straps

Where it is desirable to support a user in the chair at chest height we supply a mesh chest strap. This is a length of 150mm deep folded polyester mesh material which is permanently secured to the backrest of the chair at the height required by the specifier, and is secured around the user by Hook & loop.

This chest strap can only be fitted to extended backrests or T80s.

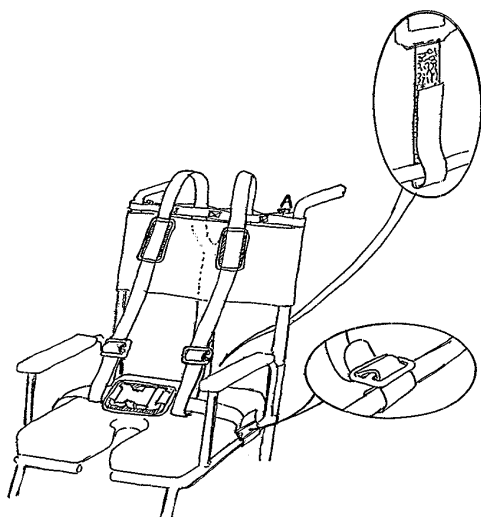
When specifying the height for attachment use dimension 'TM' to represent the height of the top of the mesh chest strap measured from the bottom of the leg of the backrest as in specifying vinyl height (see backrest section).

As all mesh chest straps are made to special order. Please also specify the length of strap required, not the chest measurement of the user. Note that we will sew 300mm of Hook & loop on each end of the strap and you will require 150mm of closed Hook & loop for maximum support.

NB Due to the dangers of asphyxiation by the user slipping down in the chair, the provision of a chest strap must be risk assessed for the specific user prior to ordering.

Full Harness

Available in two sizes – Standard Adult or paediatric, this is a four point harness which secures to the frame at the side of the seat frame and across the top of the backrest. It is supplied complete with padding for the shoulders and a comfort pad for the pelvic area.



Knee Block

Where it is impractical or ineffective to use straps or harnesses to prevent a user slipping down in the chair consideration should be given to the use of a knee block. The knee block affixes to your choice of frame through sockets on that frame thus a special frame is required and a knee block cannot be retro fitted.

The knee block is adjusted to a comfortable and effective position when the user is sitting in the chair and is secured in position by hand nuts. By preventing the knees from moving forward the user is effectively prevented from sliding down the chair.



Ankle Straps

The ankle strap is ordered by reference to the chair width ie 'A', 'B' or 'C'. It comprises a length of 50mm webbing secured in position by Hook & loop. It helps to prevent the users ankles from moving backwards on the footplates.



A comfort pad can be added to the strap to give additional padding between the strap and the user's skin.

An alternative to the ankle strap is a Calf Support.

Calf Supports

The calf support is a length of folded vinyl which attaches to the front legs of the chair with adjustable buckle fixings. It is supplied as standard on a T80.

Standard calf supports are in white vinyl.

Padded calf supports can also be provided.



Section 8 – Special Frame Order Forms

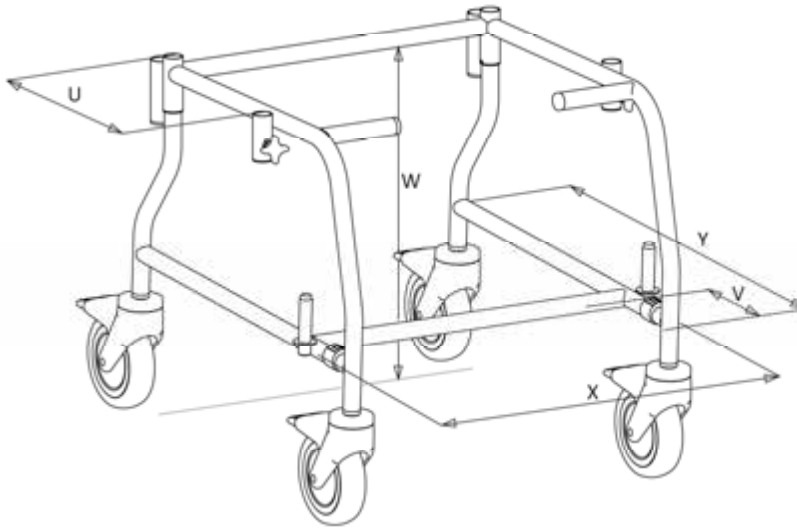
Frame

- T40
- T40 COM
- T40 WC Auto
- T50
- T60
- T70
- T70 COM
- T70 WC Auto
- T80
- T80 Paediatric
- T90
- T90 WC
- T100

T40 Special
Order form



Agent order No
Freeway order no



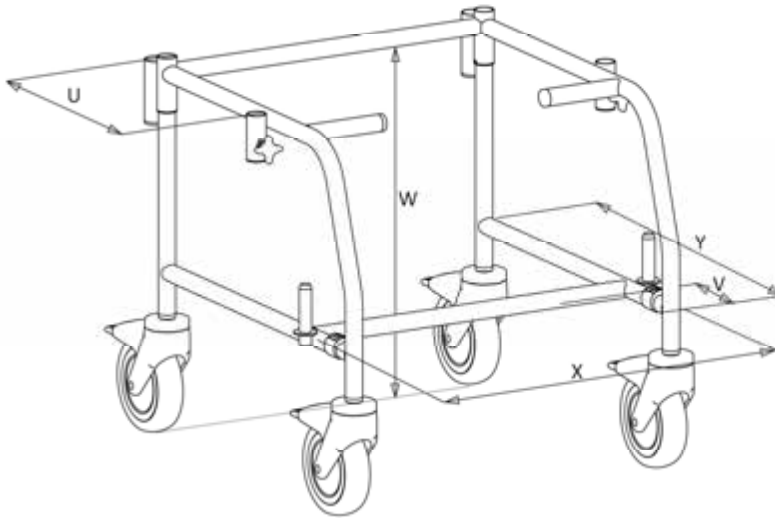
**AVAILABLE
FRAME
ALTERATIONS**

Dimension	Description	Std (mm)	Change to (mm)
Width (X)	Width (from outside of frame)		
W	Floor to underside of Rear Cross Bar	470	
Y	Front of frame to rear of frame (Modifications to rear only)	560	
U	Centres of arm rest sockets	270	
V	Front cross bar to front of frame	110	

The following information must be completed

CHAIR WIDTH		USER WEIGHT	
SEAT*			
BACKREST			
ARMREST			
FOOTREST			

*If seat is extended forward 75mm or more, front legs of frame must be made vertical.



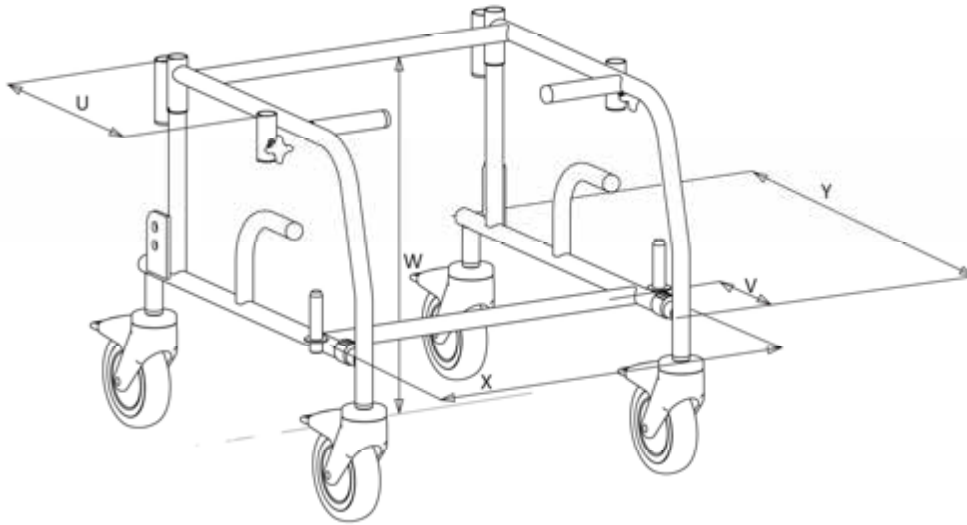
**AVAILABLE
FRAME
ALTERATIONS**

Dimension	Description	Std (mm)	Change to (mm)
Width (X)	Width (from outside of frame)		
W	Floor to underside of Rear Cross Bar	470	
Y	Front of frame to rear of frame (Modifications to rear only)	500	
U	Centres of arm rest sockets	270	
V	Front cross bar to front of frame	110	

The following information must be completed

CHAIR WIDTH		USER WEIGHT	
SEAT*			
BACKREST			
ARMREST			
FOOTREST			

*If seat is extended forward 75mm or more, front legs of frame must be made vertical.



**AVAILABLE
FRAME
ALTERATIONS**

Dimension	Description	Std (mm)	Change to (mm)
Width (X)	Width (from outside of frame)		
W	Floor to underside of Rear Cross Bar	480	
Y	Front of frame to rear of frame ¹ (Modifications to rear only)	570	
U	Centres of arm rest sockets	270	
V	Front cross bar to front of frame	110	

¹Self propelled models measured to rear axle

The following information must be completed

CHAIR WIDTH		USER WEIGHT	
SEAT*			
BACKREST			
ARMREST			
FOOTREST			

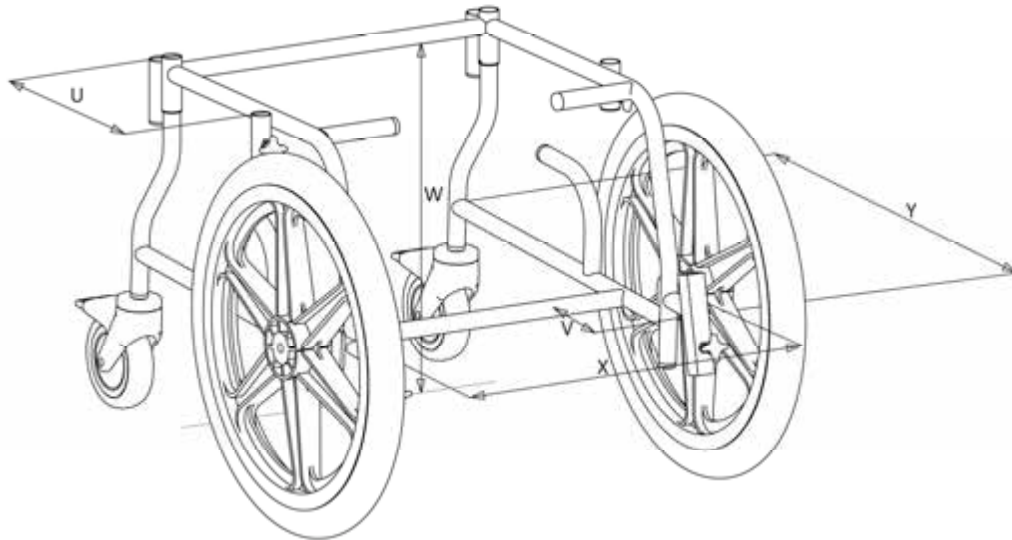
*If seat is extended forward 75mm or more, front legs of frame must be made vertical.

T50 Special
Order form

FREWAY

Agent order No _____

Freeway order no _____



**AVAILABLE
FRAME
ALTERATIONS**

Dimension	Description	Std (mm)	Change to (mm)
Width (X)	Width (from outside of frame)		
W	Floor to underside of Rear Cross Bar	470	
Y	Centre of axle to rear of frame	520	
U	Centres of arm rest sockets	270	
V	Front cross bar to front of frame	110	

The following information must be completed

CHAIR WIDTH		USER WEIGHT	
SEAT*			
BACKREST			
ARMREST			
FOOTREST			

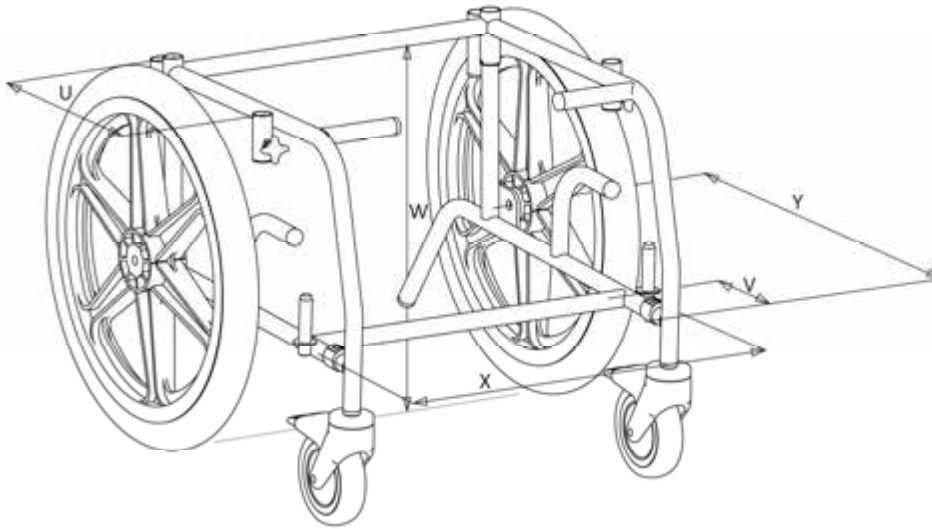
*If seat is extended forward 75mm or more, front legs of frame must be made vertical.

T60 Special
Order form

FREEWAY

Agent order No _____

Freeway order no _____



**AVAILABLE
FRAME
ALTERATIONS**

Dimension	Description	Std (mm)	Change to (mm)
Width (X)	Width (from outside of frame)		
W	Floor to underside of Rear Cross Bar	460	
Y	Front of frame to centre of axle (modifications to rear only)	440	
U	Centres of arm rest sockets	270	
V	Front cross bar to front of frame	110	

The following information must be completed

CHAIR WIDTH		USER WEIGHT	
SEAT*			
BACKREST			
ARMREST			
FOOTREST			

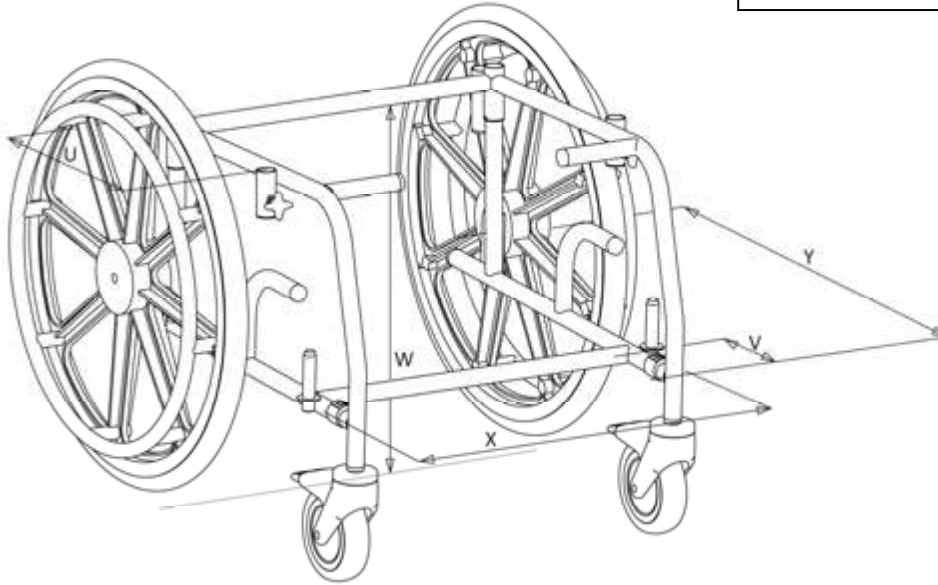
*If seat is extended forward 75mm or more, front legs of frame must be made vertical.

T70 Special
Order form

FREEWAY

Agent order No _____

Freeway order no _____



**AVAILABLE
FRAME
ALTERATIONS**

Dimension	Description	Std (mm)	Change to (mm)
Width (X)	Width (from outside of frame)		
W	Floor to underside of Rear Cross Bar	470	
Y	Front of frame to centre of axle (modifications to rear only)	510	
U	Centres of arm rest sockets	270	
V	Front cross bar to front of frame	110	

The following information must be completed

CHAIR WIDTH		USER WEIGHT	
SEAT*			
BACKREST			
ARMREST			
FOOTREST			

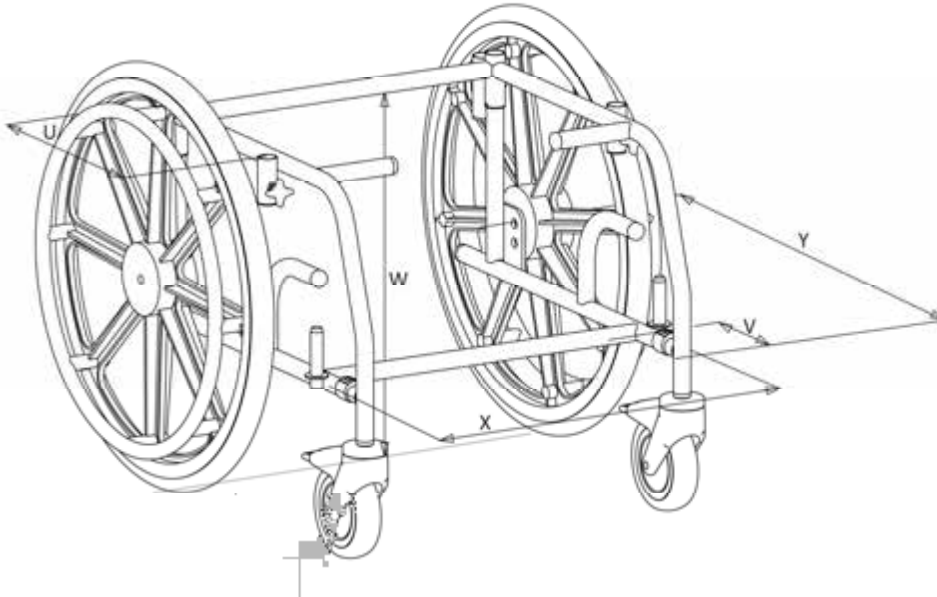
*If seat is extended forward 75mm or more, front legs of frame must be made vertical.

T70COM Special
Order form

FREEWAY

Agent order No _____

Freeway order no _____



**AVAILABLE
FRAME
ALTERATIONS**

Dimension	Description	Std (mm)	Change to (mm)
Width (X)	Width (from outside of frame)		
W	Floor to underside of Rear Cross Bar	470	
Y	Front of frame to centre of axle (modifications to rear only)	450	
U	Centres of arm rest sockets	270	
V	Front cross bar to front of frame	110	

The following information must be completed

CHAIR WIDTH		USER WEIGHT	
SEAT*			
BACKREST			
ARMREST			
FOOTREST			

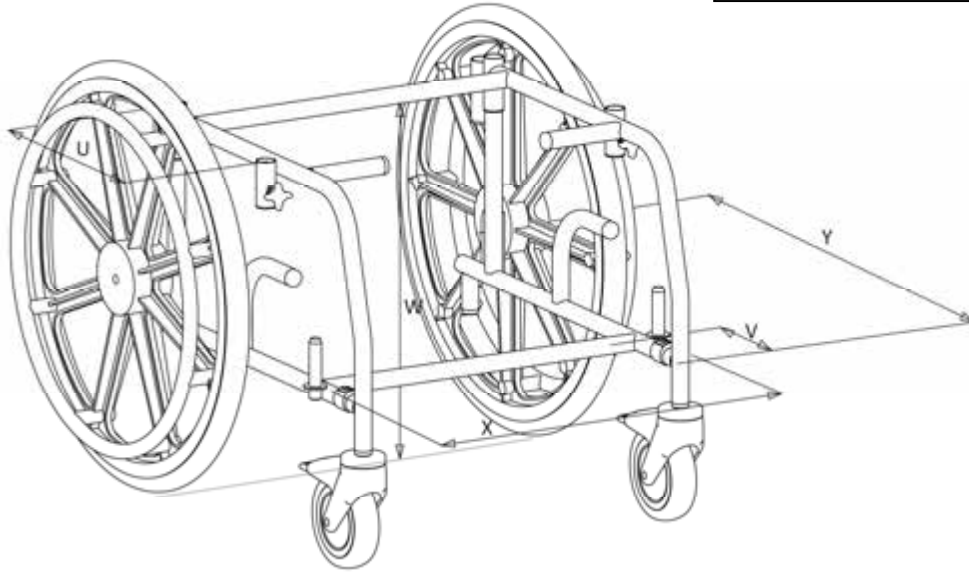
*If seat is extended forward 75mm or more, front legs of frame must be made vertical.

T70auto Special
Order form

FREEWAY

Agent order No _____

Freeway order no _____



**AVAILABLE
FRAME
ALTERATIONS**

Dimension	Description	Std (mm)	Change to (mm)
Width (X)	Width (from outside of frame)		
W	Floor to underside of Rear Cross Bar	480	
Y	Front of frame to centre of axle (modifications to rear only)	510	
U	Centres of arm rest sockets	270	
V	Front cross bar to front of frame	110	

The following information must be completed

CHAIR WIDTH		USER WEIGHT	
SEAT*			
BACKREST			
ARMREST			
FOOTREST			

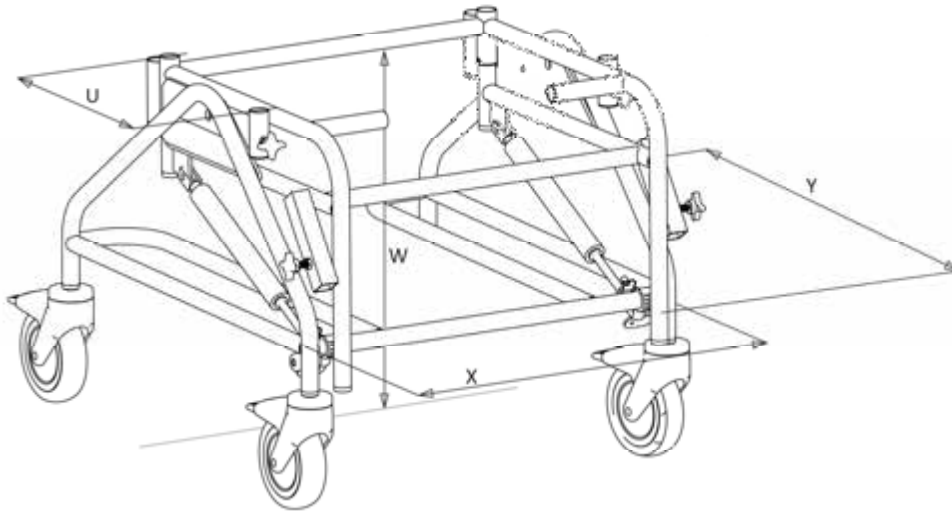
*If seat is extended forward 75mm or more, front legs of frame must be made vertical.

T80 Special
Order form

FREEWAY

Agent order No

Freeway order no



**AVAILABLE
FRAME
ALTERATIONS**

Dimension	Description	Std (mm)	Change to (mm)
Width (X)	Width (from outside of inner frame)		
W	Floor to underside of Rear Cross Bar	470	
Y	Front of frame to rear of frame ¹ (modifications to rear only)	660	
U	Centres of arm rest sockets	270	
V	Front cross bar to front of frame	110	

¹Self propelled models measured to rear axle

The following information must be completed

CHAIR WIDTH		USER WEIGHT	
SEAT*			
BACKREST			
ARMREST			
FOOTREST			

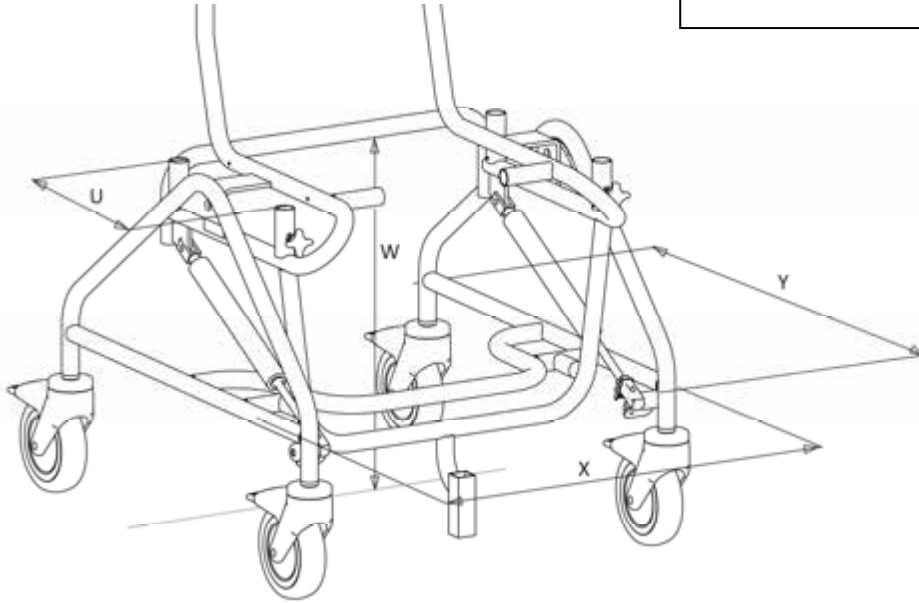
***If seat is extended forward 75mm or more, front legs of frame must be made vertical.**

**T80Paediatric
Special Order form**

FREEWAY

Agent order No _____

Freeway order no _____



**AVAILABLE
FRAME
ALTERATIONS**

Dimension	Description	Std (mm)	Change to (mm)
Width (X)	Width (from outside of frame top)		
W	Floor to underside of Rear Cross Bar	470	
Y	Front of frame to rear of frame (modifications to rear only)	630	
U	Centres of arm rest sockets	270	
V	Front cross bar to front of frame	110	

The following information must be completed

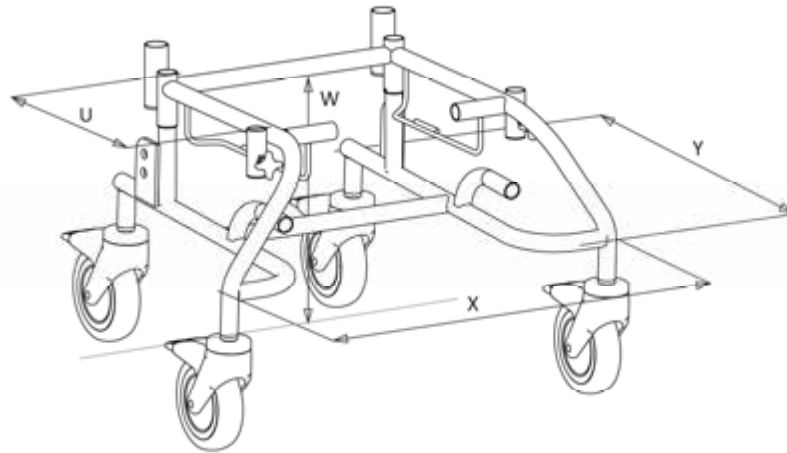
CHAIR WIDTH		USER WEIGHT	
SEAT*			
BACKREST			
ARMREST			
FOOTREST			

***If seat is extended forward 75mm or more, front legs of frame must be made vertical.**

T90 Special
Order form



Agent order No
Freeway order no



**AVAILABLE
FRAME
ALTERATIONS**

Dimension	Description	Std (mm)	Change to (mm)
Width (X)	Width (from outside of frame top)		
W	Floor to underside of Rear Cross Bar	375	
Y	Front of frame to rear of frame ¹ (modifications to rear only)	490	
U	Centres of arm rest sockets	270	
V	Front cross bar to front of frame	200	

¹Self propelled models measured to rear axle

The following information must be completed

CHAIR WIDTH		USER WEIGHT	
SEAT*			
BACKREST			
ARMREST			
FOOTREST			

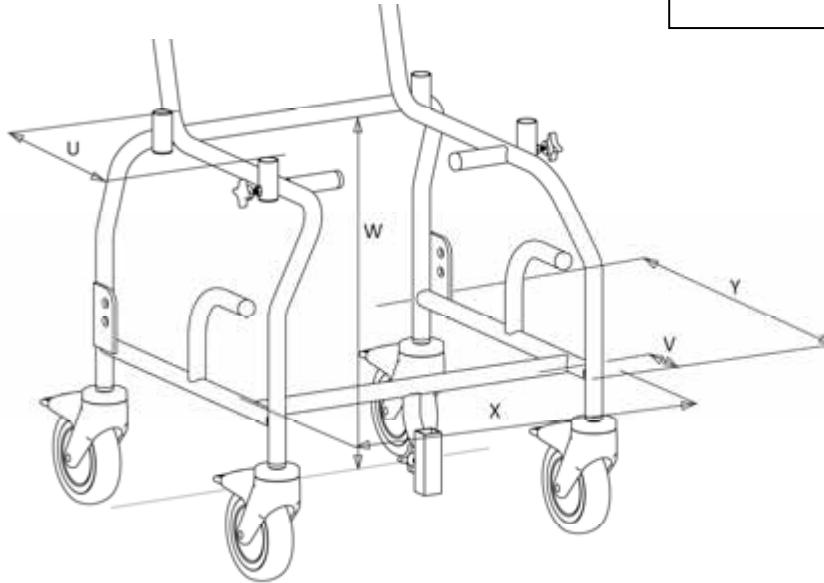
***If seat is extended forward 75mm or more, front legs of frame must be made vertical.**

T90WC Special
Order form

FREEWAY

Agent order No _____

Freeway order no _____



**AVAILABLE
FRAME
ALTERATIONS**

Dimension	Description	Std (mm)	Change to (mm)
Width (X)	Width (from outside of frame top)		
W	Floor to underside of Rear Cross Bar	485	
Y	Front of frame to rear of frame ¹ (modifications to rear only)	460	
U	Centres of arm rest sockets	270	
V	Front cross bar to front of frame	65	

¹Self propelled models measured to rear axle

The following information must be completed

CHAIR WIDTH		USER WEIGHT	
SEAT*			
BACKREST			
ARMREST			
FOOTREST			

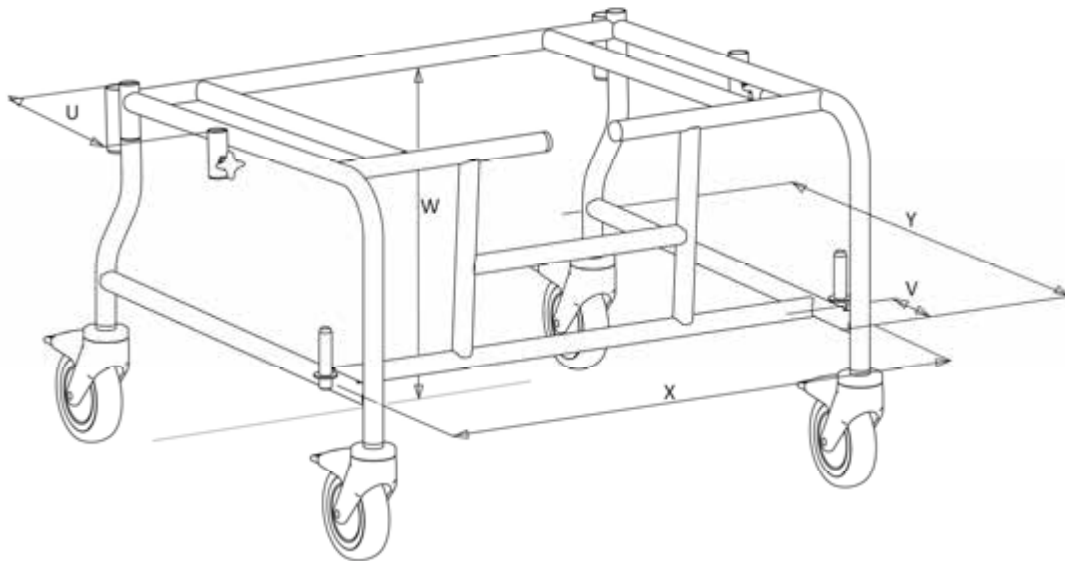
***If seat is extended forward 75mm or more, front legs of frame must be made vertical.**

T100 Special
Order form

FREEWAY

Agent order No _____

Freeway order no _____



**AVAILABLE
FRAME
ALTERATIONS**

Dimension	Description	Std (mm)	Change to (mm)
Width (X)	Width (from outside of frame)		
W	Floor to underside of Rear Cross Bar	455	
Y	Front of frame to rear of frame (modifications to rear only)	710	
U	Centres of arm rest sockets	370	
V	Front cross bar to front of frame	110	

The following information must be completed

CHAIR WIDTH		USER WEIGHT	
SEAT*			
BACKREST			
ARMREST			
FOOTREST			

*If seat is extended forward 75mm or more, front legs of frame must be made vertical.