

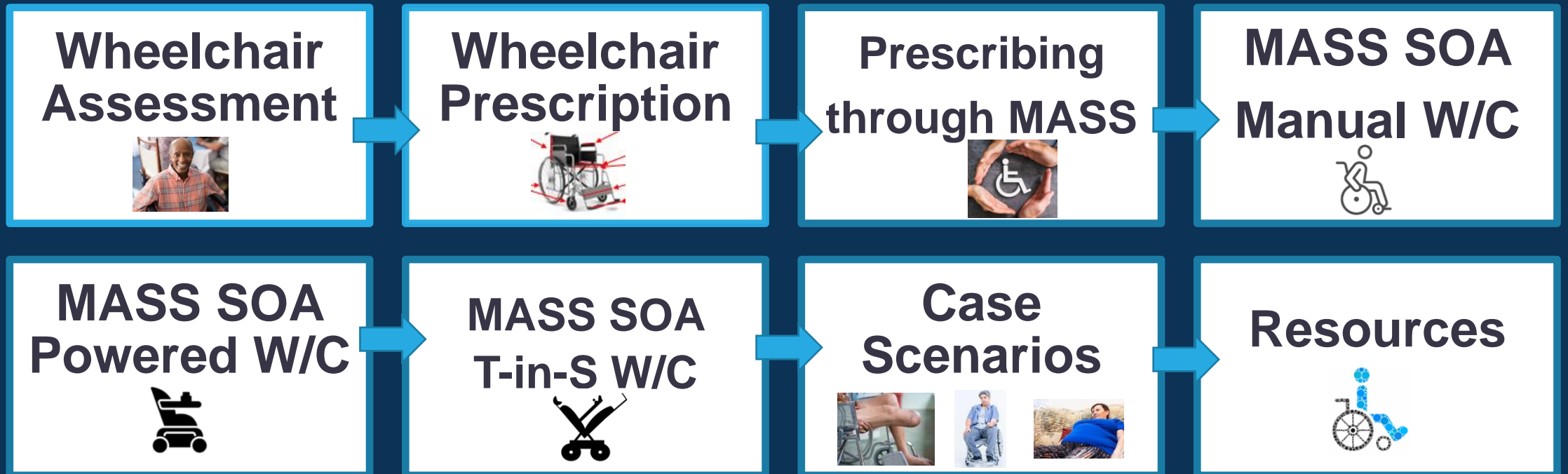
# Wheeling Well

15 September 2021



**Queensland**  
Government

# Overview



# Patient Centred - Assessment

**ACTIVITIES** - things the person is doing or wants to do e.g. ADLs, hobbies

**MAIN SUPPORT PERSON** – characteristics, level of assistance they can provide



**ENVIRONMENT** – access, surfaces, storage, hazards, outside of the house, transportation, social aspects

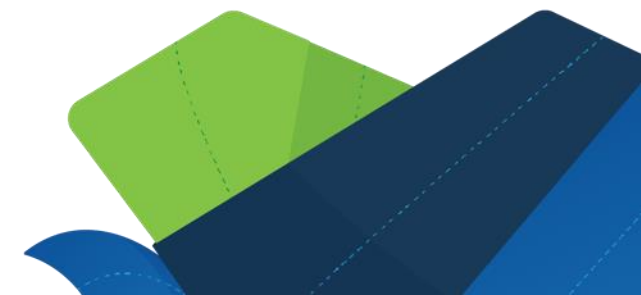
**ASSESSMENT TOOLS:** physical assessment, incl. Mechanical Assessment Tool, propulsion analysis, wheelchair skills

e.g. Power Mobility Indoor Driving Assessment

**Holistic, person-centred, ICF framework, seating principles**

# Risks of Inaccurate Wheelchair Prescriptions

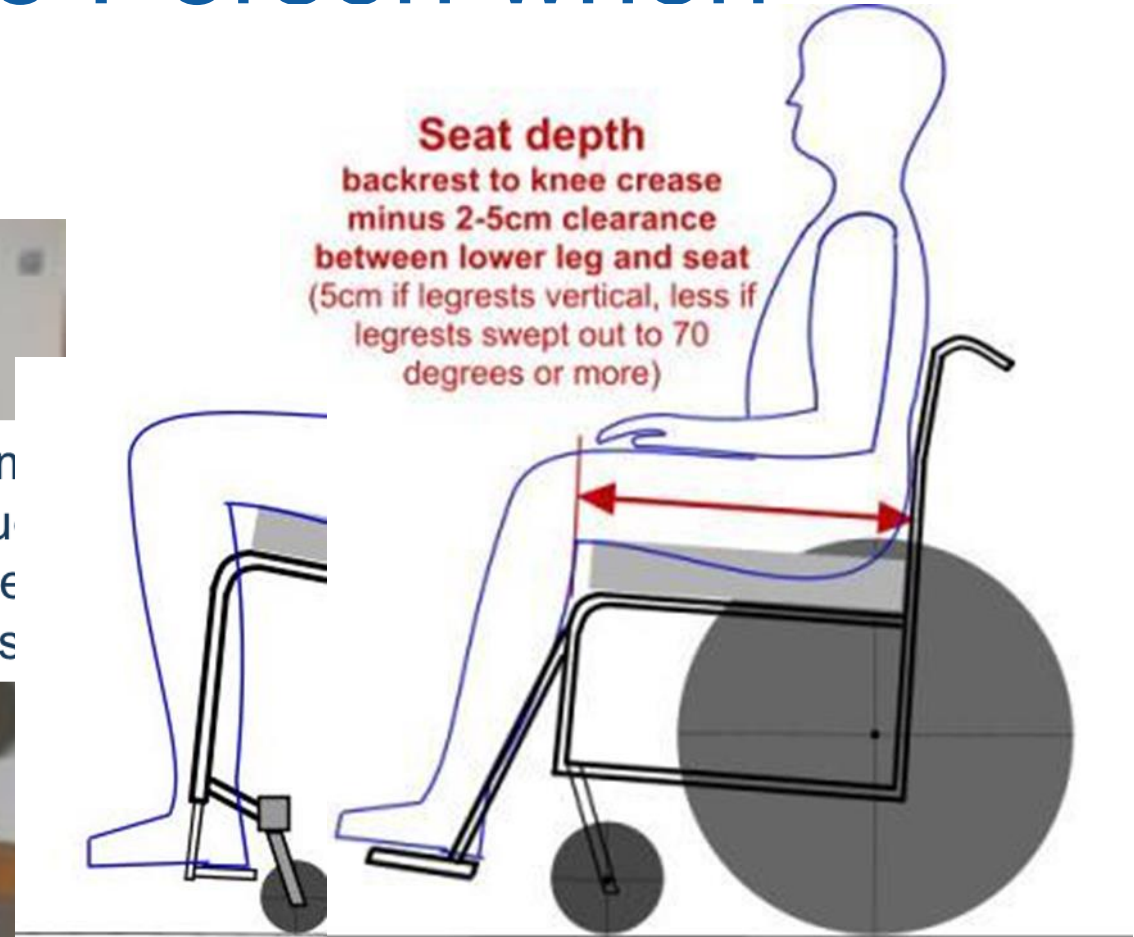
- Potential injury & death
- Incidents on ramps, kerbs, cambers, soft ground
- Waste of resources (equipment/money/time)
- Loss of client confidence



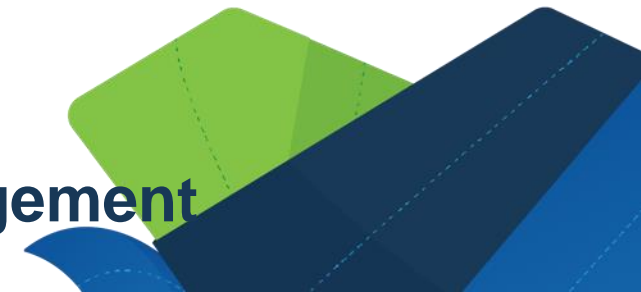
# Matching Wheelchair to Person when Prescribing



Too narrow,  
not enough  
clearance,  
tend to be  
one size



Consider posture, comfort, function and pressure management



# Matching Wheelchair to Person when Prescribing

## ARMREST EXAMPLES



# Matching Wheelchair to Person when Prescribing

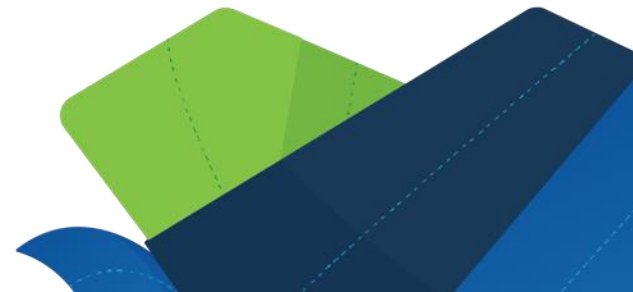


**Consider posture, comfort, function and pressure management**

# Poll – Wheelchair Prescription

What barriers have you encountered in doing a wheelchair prescription through MASS?

- Could not get a suitable wheelchair to trial
- Gap payments are too expensive for client
- Limited specialist clinical skills in this area
- None of the SOA options are suitable for my client
- I don't know enough about the SOA wheelchairs and their features
- I haven't had any issues



# Aims of MASS

- Provide appropriate subsidised assistive technology to eligible Queensland residents with a permanent and stabilised condition or disability
- Provide subsidy funding that may not meet full need, but allows MASS to assist as many people as possible
- Reflect an individual person's preference within the approved MASS list of Assistive technology in relation to their circumstances
- Effectively manage resources & provide an equitable, transparent and efficient service to prescribers and clients/applicants

MASS practically accomplishes this via partnering with Prescribers & through the use of it's SOA ( Standing Offer Arrangement ) with agreed suppliers/manufacturers



# MASS SOA & Responsibility to Clients

- MASS has a responsibility to provide equipment that won't cause harm or pose unnecessary risks to clients
  - How do we achieve this?
- MASS requires compliance with:
  1. Australian Legislation – the law
  2. Standards – safety, performance and durability requirements
- All products listed on the MASS Standing Offer Arrangement (SOA) have been verified for compliance with 1) and 2)
  - Exceptions to these criteria require approval from the MASS Engineer.



# Reasons for Prescribing a non-SOA Piece of Equipment

The MASS Guidelines require:

- that a prescriber demonstrate through trialling that all SOA options are unsuitable

**& or**

- is able to show that there is no suitable option available on the MASS SOA

... in order to request a non-SOA item.



# Trials from MASS stock

**MASS Stock  
Equipment -  
Request to  
Trial/Allocate**



[▶ Start](#)

**MASS Stock  
Equipment - Trial  
Feedback**



[▶ Start](#)

# MASS Mobility Aid Eligibility Review



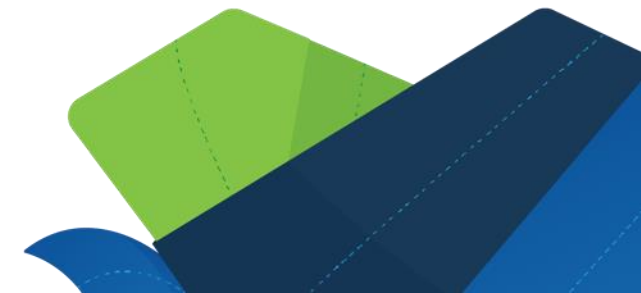
[Guidelines MASS Mobility Aids \(health.qld.gov.au\)](http://health.qld.gov.au)



# Basic Manual Wheelchair Subsidy Eligibility

<b>Basic manual wheelchair (MWC)</b>	<b>\$1200</b>	<ul style="list-style-type: none"><li>• Applicant cannot walk <u>independently or effectively</u> using an aid to walk within their home environment.</li><li>• MWC is used <u>predominantly in the home environment</u> which must be MWC accessible.</li><li>• <b>The most basic MWC which meets the applicant's needs for seating, mobility and functional activities should be requested.</b></li></ul>
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NB. MASS has a several highly adjustable Basic MWC's available on SOA within Subsidy.



# Non-basic Subsidy Eligibility

## - Long Duration Independent User

Applicants with CVA or just advanced in age/frailty :

- Difficult to justify long duration use
- May be able to justify optimum efficiency of propulsion, for applicants using one arm drive manual wheelchair instead of powered wheelchair

**Non-basic manual wheelchair (MWC)**

**\$2200**

**Applicant meets above guidelines and:**

- ~~weight exceeds 120 kg; or~~
- **is a long duration independent user at risk of overuse injury and requires optimum set up for efficiency of propulsion; or**
- **requires non-standard size and/or options to meet positioning and postural needs (Note: includes capacity**

# Non-basic Subsidy Eligibility

## - Non Standard Seating Dimensions

Make sure you have reviewed the prescription forms for basic wheelchairs before asking for non-basic when seating dimensions are being used as justification

<b>Non-basic manual wheelchair (MWC)</b>	<b>\$2200</b>	<b>Applicant meets above guidelines and:</b> <ul style="list-style-type: none"><li>• weight exceeds 120 kg; or</li><li>• is a long duration independent user at risk of overuse injury and requires optimum set up for efficiency of propulsion; or</li><li>• requires non-standard size and/or options to meet positioning and postural needs (Note: includes capacity to fit postural supports, accommodate foot position with footplate angles etc).</li></ul>
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# Power Wheelchair Eligibility

## Powered Wheelchair vs Manual Wheelchair

Power wheelchair  
(PWC)

\$6650

- Applicant is unable to walk with an aid or self propel a manual wheelchair effectively in their home environment.
- Applicant has demonstrated ability (as recorded on Home Access Checklist) to develop the skills necessary to effectively control and manoeuvre the requested PWC inside the home and around any other areas to be accessed.

PWC Prescribing considerations:

- ✓ Safety assurance
- ✓ Cognition intact
- ✓ Home access & use trialled

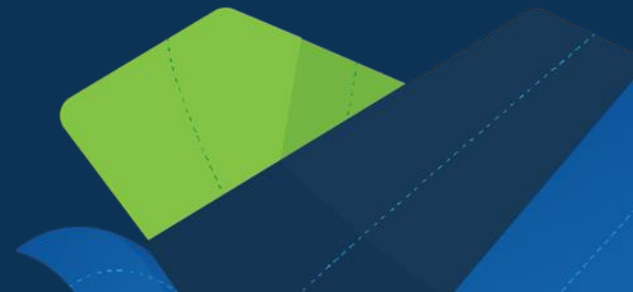
Presence of a neurological condition was a significant predictive factor for a customized power wheelchair over a standard one



# Tilt in Space Manual Wheelchair Eligibility

<b>Tilt in space manual wheelchair (TIS MWC)</b>	<b>\$4000</b>	<p>In addition to meeting the manual wheelchair criteria above, applicant requires tilt in space to:</p> <ul style="list-style-type: none"><li>• <b>Achieve or maintain a more upright, stable supported sitting position when head and trunk control are impaired; or</b></li><li>• <b>Redistribute pressure so less pressure is directed through bony prominences on the seat, if the applicant is unable to weight bear in standing; or</b></li><li>• <b>Facilitate optimal positioning for comfort and function due to deformity/pain/involuntary movement/adnormal tone/seizure activity; or</b></li><li>• <b>Better manage respiration, gastro-intestinal function and facilitate hoist transfers.</b></li></ul>
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# SOA Manual Wheelchairs



# SOA Manual Wheelchairs

Supplier	Client Group	Frame Type	Subsidy Category (* within Basic subsidy)	Product Brand	Product Name	Safe Working Load (kg)	Weight (kg) NB. Where one Wt is listed = smallest sized MWC (Adult= 16x16) ( Transport weight add 3-3.5kg for rear wheels)	seat width (cm)	seat depth / range (cm)	Overall Width (add -21-22cm to seat width)	STF Height (cm)	Back rest height (cm)	Arm rest height (cm)	Option to fit OAD / Lever	Option to fit Stump support	Option to fit Drum brakes	option of 12" Transit rear wheel	Option of Amputee axle setting	Option to fit tie downs	Crash testing seat occupied	Specific Features	Accessories	Supplier Brochure link
Active Medical	Adult	Folding	Basic	Active Care	Sovereign (16", 17", 18", 19")	125	17	40,43,46,49	41.5,42,42.5,45,47.5,50	41.5,42,42.5,45,47.5,50	42.5,45,46,48	24,26,28,31	OAD	Yes	Yes	Yes						Head support, Drum Br	<a href="https://www.activemedical.com.au">https://www.activemedical.com.au</a>
Active Medical	Adult	Folding	Basic/non-basic	Active Care	Sovereign (20", 22")	170	21	52,55	45,47,5,50	41.5,42,42.5,45,47.5,50	46,48	24,26,28,31	OAD	Yes	Yes	Yes						Adjustable & removable legrests, Adjustabl	
Aidacare	Adult	Folding	Basic	Aspire	Evolve 2 (16", 18", 20")	140	14.8,14.9,15,15.1	40,45,50	40-47.5	61,66,71	44-48	43-49	20-22.5	No	Yes	Yes	No					Adjustable & removable legrests (fig. 1) • Flip back & removable armrests (fig. 2) • Adjustable armrests • Elevating Legrest • Adv	<a href="https://www.aidacare.com.au">https://www.aidacare.com.au</a>
Aidacare	Adult	Folding	Basic/non-basic	Aspire	Evolve 2 HD (22", 24")	190	16,16.2	57,61	40-47.5	78,82	44-48	43-49	20-22.5	No	Yes	Yes	No					Frame: Folding Lightweight Aluminium Leg	
Aidacare	Paed	Folding	Basic/non-basic	Aspire	Evolve 2 Junior (12")	140	14	30	30-37.5	51	36-41	43-49	20-22.5	No	Yes	Yes	No						
Aidacare new Product	Adult	Folding	Basic	Freedom Healthcare	Excel G3 Heavy Duty Excel Superlite	130 110	12.7	46,51	43	64,69	50	45	22	No	No	yes	Yes	No				Folding backrest for easy transportation/Flip up removable padded armrest/Park brake below seat	
Aidacare new Product	Adult	Folding	Basic/non-basic	Freedom Healthcare	Excel G5 Excel Superlite Transporter	140 110	11.8	46,51	43	64,69	50	45	22	No	No	yes	Yes	No				Folding backrest for easy transportation/Handbrake with park locking mechanism connected to f	
Country Care Group	Adult	Folding	Basic/non-basic	Karma	Karma 8000 Transit (16")	130	13.5	41,51,56	41	58	55	40-47.5	21-29	No	No	Attendant/Std	Yes/Std	No				Lightweight folding manual self propelled wheelchair/Adjustable, swing-away, detachable footrest	
Country Care Group	Adult	Folding	Basic/non-basic	Karma	Karma 8000 Transit HD (20", 22")	160	15.2,15.8	51,56	46	69,74	55	40-47.5	21-29	No	No	Attendant/Std	Yes/Std	No					
Country Care Group	Adult	Folding	Basic/non-basic	Karma	Karma Eagle 8000 (14")	130	14.2	36,	41	58		40-47.5	23-28									Alightweight, durable and reliable manual self propelled wheelchair/This wheelchair is highly ad	
Country Care Group	Adult	Folding	Basic/non-basic	Karma	Karma Eagle 8000 HD(19-22")	160	15.5,15.7,15.9	49,50,55	46	70,72,5,77	51	40-47.5	23-28										
Country Care Group	Adult	Folding	Basic	Karma	Karma Flexx (16")	130	14.4	41	41	60	50	43	23-28		Yes	Attendant	Yes (14")	Yes	c		Flexible, robust and stylish/Sturdy double / Foldable Backrest/Stylish Fork/Tension Adjustable Back		
Country Care Group	Adult	Folding	Basic	Karma	Karma Flexx (18")	130	14.6,15	46	41,46	64	51	43	23-28		Yes	Attendant	Yes (14")	Yes	c				
Country Care Group	Adult	Folding	Basic	Karma	Karma Flexx HD (20", 22", 24")	170	17.2,18.3,19.4	55,60.5	46	74,77,82	43	22-30	20-29	OAD	Yes	Yes	Yes	Yes (14")	Yes	c			
Invacare	Adult	Folding	Basic	Invacare	Action 3 NG (16", 18", 20")	125	14.2	40.5, 45.5,51	40.5, 45.5,51	58.5-68.5	38.5-51	40,43,51	20-29	OAD	Yes	Yes	Yes	Yes	c		The Action3NG introduces a new cross Anti tippers, Pelvic Belt,	<a href="file:///G:/HMA/General/Perm">file:///G:/HMA/General/Perm</a>	
Invacare	Paed	Folding	Basic/non-basic	Invacare	Action 3 NG Junior (8"-15")	80	15	20.5-38 (+5cm sizing)	20-37.5 (+5cm sizing)	43,49	40-46	35-43	15-25, 18-28	No	Yes	Yes	Yes	Yes	c		Anti tippers, Pelvic Belt, tie downs, stump support, ele		
Invacare	Adult	Folding	Non-basic	Invacare	Action 3 NG Lever Drive (16", 18", 20")	125	13	40.5, 45.5,50.5	40.5, 45.	61,66,71	48.5	43	20-29	Lever	No	No	No	Yes	c		Anti tippers, Pelvic Belt, tie downs, stump support, ele		
Invacare	Adult	Folding	Basic/non-basic	Invacare	Action 4 NG (20", 22", 24")	160	14	50.5,55,60.5	45-50	71,76,81	51	43	20-29		Yes	No	No	Yes	c		Anti tippers, Pelvic Belt, tie downs, stump support, ele		
Invacare	Adult	Rigid	Non-basic	Invacare	Kuschall Advance (13.5", 18")	125	9.8	34-46 (+2cm sizing)	36-52 (+2cm sizing)	SW+17	45-55	27-48	N/A										<a href="https://www.invacare.com.au">https://www.invacare.com.au</a>
Invacare	Adult	Folding	Non-basic	Invacare	Kuschall Compact (11"-20")	130	10.5	28-50 (+2cm sizing)	32-50 (+2cm sizing)	SW +16	37-53	30-51	N/A	Yes	Yes	Yes	Yes	Yes	c		u/move/manual-mobility/active-wheelchairs/kuschall-compact		
Invacare	Adult	Rigid	Non-basic	Invacare	Kuschall K Series (12.5"-20")	120	7.8	32-50 (+2cm sizing)	35-52.5 (+2cm sizing)	SW+17	45-52	27-48	N/A										<a href="https://www.invacare.com.au">https://www.invacare.com.au</a>
Invacare	Adult	Rigid	Non-basic	Invacare	Kuschall RSL (13.5"-17")	100	6.8	34-44 (+2cm sizing)	38.5-48.5 (+2.5cm sizing)	SW+17	45-53	27-42	N/A										<a href="https://www.invacare.com.au">https://www.invacare.com.au</a>
Invacare	Adult	Folding	Basic/non-basic	Invacare	Action 5 (12"-21")	130	12.3	30.5 -53 (+ 2.5cm sizing)	35-50 (+ 2.5cm sizing)	SW+16-25	36-53	N/A	N/A			No	No						
Invacare	Adult	Rigid	Basic/non-basic	Invacare	Action 5 (12"-21")	130	12.3	30.5 -53 (+ 2.5cm sizing)	35-50 (+ 2.5cm sizing)	SW+16-25	36-53	N/A	N/A			No	No						
Invacare	Adult	Folding	Non-basic	Kuschall	Champion	120	9.2	36-48 (+2cm sizing)	34-48 (+2cm sizing)	SW+16-24	45-54	30-46.5	N/A										
Mobility Plus	Adult	Rigid	Non-basic	Mobility Plus	Elite ( Individually scripted)	100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A			<a href="https://mobilityplus.com.au/product-category/mobility/">https://mobilityplus.com.au/product-category/mobility/</a>
Mobility Plus	Adult	Folding	Basic/non-basic	Mobility Plus	Equaliser ( Individually scripted)	125	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A			<a href="https://mobilityplus.com.au/product-category/mobility/">https://mobilityplus.com.au/product-category/mobility/</a>
Mobility Plus	Adult	Folding	Basic	Mobility Plus	Equaliser-Ecco (16", 18", 20")	125	14	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A			<a href="https://mobilityplus.com.au/product-category/mobility/">https://mobilityplus.com.au/product-category/mobility/</a>
Mobility Plus	Adult	Rigid	Non-basic	Mobility Plus	Zero ( Individually scripted)	100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A			<a href="https://mobilityplus.com.au/product-category/mobility/">https://mobilityplus.com.au/product-category/mobility/</a>
Motion Specialties	Adult	Folding	Basic/non-basic	Ki Mobility	Catalyst 4 (14"-22")	113 136	11.8	36-56 (+5cm sizing)	41,46,51	SW+21	34-53	40-50	21-34	No	Yes	No	Yes	Yes	c		HD available (158kg)	Full Range	<a href="https://www2.kimobility.com">https://www2.kimobility.com</a>
Motion Specialties	Adult	Folding	Basic/non-basic	Ki Mobility	Catalyst 5 (14"-22")	113 136	10.4	36-56 (+2.5cm sizing)	36-51 (+2.5cm sizing)	SW+21	34-53	21-50	18-29	OAD	Yes	Yes	No	Yes	Yes	c	HD available (158kg)	Full Range	<a href="https://www2.kimobility.com">https://www2.kimobility.com</a>
Motion Specialties	Adult	Folding	Basic/non-basic	Ki Mobility	Catalyst 5iX (14"-22")	113 136	10.9	36-56 (+2.5cm sizing)	36-51 (+2.5cm sizing)	SW+21	34-53	21-50	18-29	OAD	Yes	Yes	No	Yes	Yes	c	HD available (158kg)	Full Range	<a href="https://www2.kimobility.com">https://www2.kimobility.com</a>
Motion Specialties	Paed	Folding	Basic/non-basic	Ki Mobility	Catalyst Spark (10"-16")	76	8.62	25-41 (+5cm sizing)	31-46 (+5cm sizing)	SW+21	33-53	33-61	21-34	OAD	Yes	Yes	No	Yes	Yes	c			<a href="https://www2.kimobility.com">https://www2.kimobility.com</a>
Motion Specialties	Paed	Rigid	Non-basic	Ki Mobility	Little Wave (Click XP) also Little wave XP (10"-16")	75	5.67 (transport)	20-46 (+5cm sizing)	20-46 (+5cm sizing)	SW+21	29-51	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A			<a href="https://www2.kimobility.com/Brochures/USA/LittleWave_Click.pdf">https://www2.kimobility.com/Brochures/USA/LittleWave_Click.pdf</a>
Motion Specialties	Adult	Rigid	Non-basic	Ki Mobility	Rogue (12"-20")	125	4.8 (transport)	30-51 (+2.5cm sizing)	34-52 (+2.5cm sizing)	SW+21	34-52	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A			<a href="https://www2.kimobility.com">https://www2.kimobility.com</a>
Motion Specialties	Adult Paed	Rigid	Non-basic	Ki Mobility	Rogue XP (10"-18")	125 90.72	5.26 (transport)	25.4-46 (+2.5cm sizing)	25-51 (+2.5cm sizing)	SW+21	34-52	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A			<a href="https://www2.kimobility.com">https://www2.kimobility.com</a>
Motion Specialties	Adult	Rigid	Non-basic	Ki Mobility	Tsunami ALX (14"-20")	113	8.56	36-56 (+2.5cm sizing)	34-52 (+2.5cm sizing)	SW+21	34-52	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A			<a href="https://www2.kimobility.com">https://www2.kimobility.com</a>
Motion Specialties	Paed	Rigid	Non-basic	Ki Mobility	Tsunami Little Wave "Little wave XP?" (14"-20")	113 75	N/A 7.26	25-48 (+2.5cm sizing)	25-41 (+2.5cm sizing)	SW+21	29-52	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A			<a href="https://www.kimobility.com/P">https://www.kimobility.com/P</a>
Permobil Australia	Adult	Folding	Non-basic	Tiltle	Aero X Series 2	120	8.2	30-56	30-51	SW+21	34-53	28-51	N/A	N/A	N/A	N/A	N/A	Yes	Yes	c	HD version 159kg		<a href="https://permobil.com.au/wp-d">https://permobil.com.au/wp-d</a>
Surgical Engineering	Adult	Rigid	Non-basic	KIS	All-terrain ( Individually scripted)	100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A			<a href="https://www.sureng.com.au/">https://www.sureng.com.au/</a>
Surgical Engineering	Adult	Rigid	Non-basic	KIS	Get-About ( Individually scripted)	100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A			<a href="https://www.sureng.com.au/">https://www.sureng.com.au/</a>
Surgical Engineering	Paed	Rigid	Non-basic	KIS	Kidz growing ( Individually scripted)	50	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A			<a href="https://www.sureng.com.au/">https://www.sureng.com.au/</a>
Surgical Engineering	Adi/Paed	Folding	Basic/non-basic	KIS	Mk 1 ( Individually scripted)	100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A			<a href="https://www.sureng.com.au/">https://www.sureng.com.au/</a>
Surgical Engineering	Adi/Paed	Folding	Basic/non-basic	KIS	Mk 2 ( Individually scripted)	100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A			<a href="https://www.sureng.com.au/">https://www.sureng.com.au/</a>
Surgical Engineering	Adi/Paed	Folding	Basic/non-basic	KIS	Mk 3 ( Individually scripted)	100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A			<a href="https://www.sureng.com.au/">https://www.sureng.com.au/</a>
Think Mobility	Paed	Folding	Basic	Glide	Glide 3 Bambino (13.5", 14.5")	75	15	34,37	26,33,35	SW+20	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A			<a href="https://www.thinkmobility.com.au/">https://www.thinkmobility.com.au/</a>
Think Mobility	Paed	Folding	Basic	Glide	Glide 3 Cadet (13.5", 14.5")	100 75	15	34,37	26,33,35	SW+20	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A			<a href="https://www.thinkmobility.com.au/">https://www.thinkmobility.com.au/</a>
Think Mobility	Adult	Folding	Basic/non-basic	Glide	Glide 2 (14.5"-20.5")	150	14.5	37- 52 (+3cm sizing)	33-52 (+3cm sizing)	SW+20	46-53			OAD	Yes			yes	c		The Glide G2 manual wheelchair, Designed to accommodate active	<a href="https://www.glide.com.au/">https://www.glide.com.au/</a>	
Think Mobility	Adult	Folding	Basic	Glide	Glide 2 (14.5"-20.5")	100	16	37- 52 (+3cm sizing)	40,43,46	SW+20	46-53	43	21.5	OAD	Yes			yes	c		The G3 Series manual chairs have been designed for the individual who re	<a href="https://www.glide.com.au/">https://www.glide.com.au/</a>	
Think Mobility	Adult	Folding	Non-basic	Glide	Glide 3 HD (14.5"-20.5")	180	16	37- 52 (+3cm sizing)	40,43,46	SW+20	46-53	43	21.5	OAD	Yes			yes	c		The Series 3 Heavy Duty, designed for the bariatric individual requ	<a href="https://www.glide.com.au/">https://www.glide.com.au/</a>	

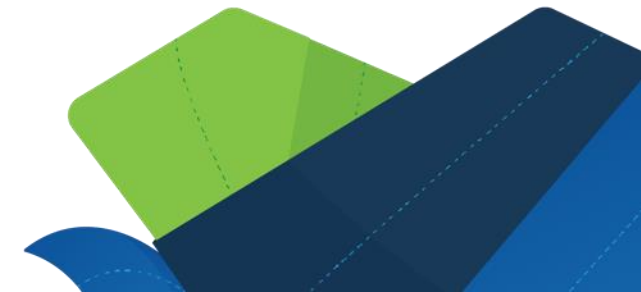
# Example of Basic Wheelchairs that can be Configured to a Range of Dimensions and Settings - Active Medical Sovereign



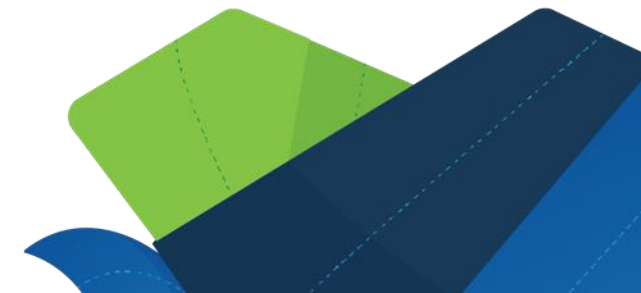
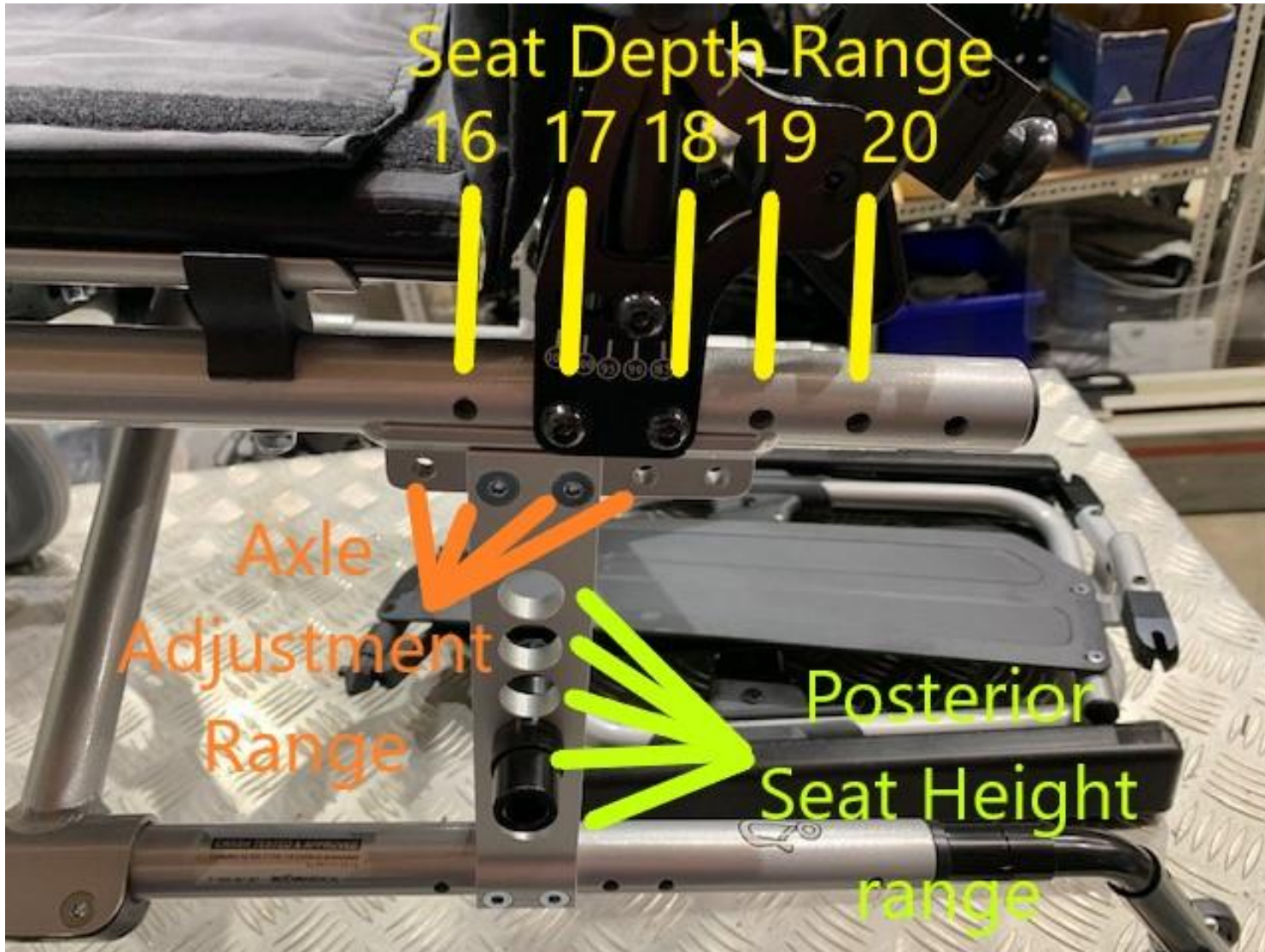
## PRODUCT SPECIFICATIONS:

TECHNICAL DATA								
Product Code	4340-37	4340-40	4340-43	4340-46	4340-49	4352-52	4352-55	4352-58
Seat Width	37cm	40cm	43cm	46cm	49cm	52cm	55cm	58cm
Anterior Seat Height	41.5, 42, 42.5, 45, 47.5, 50cm							
Posterior Seat Height	41, 43, 45, 47, 49, 51cm							
Seat Depth	40, 42.5, 45, 47.5, 50cm	41.5, 42, 42.5, 45, 47.5, 50cm				45, 47.5, 50cm		
Backrest Height	40 - 46cm (2cm increments)							
Backrest Angle	69° - 94° (5° increments)	85° - 105° (5° increments)						
Lower Leg Length	40 - 48cm (2cm increments)							
Armrest Height	18-26cm (2cm increments)	24- 31cm (2cm increments)						
Armrest Length	33 - 45cm (4cm increments)							
Footplate Width	10.5 - 15.5 cm							
Gross Weight	17kg	17kg	17kg	17kg	17kg	21kg	21kg	21kg
SWL	125kg	125kg	125kg	125kg	125kg	170kg	170kg	170kg

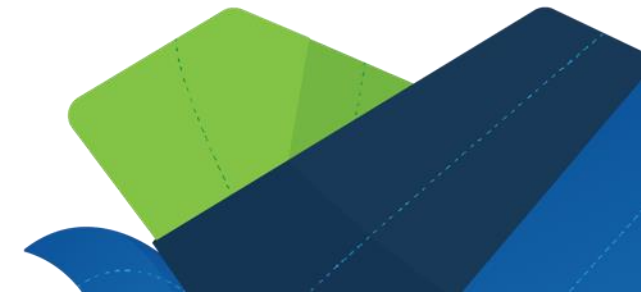
[ActiveCare-Sovereign-Wheelchair-brochure-Height-Depth-Angle-and-Comfort-Adjustable-Wheelchair.pdf](#)  
([activemedicalsupplies.com.au](http://activemedicalsupplies.com.au))



# Sovereign Adjustments



# Sovereign Adjustments



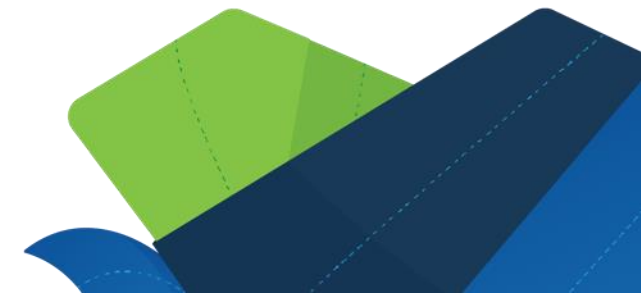
# Example of Basic Wheelchairs that can be Configured to a Range of Dimensions and Settings – Aspire Evoke 2

Code	Display Name	Seat Depth	Seat Width	Backrest Height	Seat To Floor Height	Safe Working Load	Unit Weight
MWS449500	Aspire Evoke 2 - 350mm Wide	400 - 475 mm	350 mm	430 - 490 mm	440 - 480 mm	140 kg	14.8 kg
MWS449510	Aspire Evoke 2 - 400mm Wide	400 - 475 mm	400 mm	430 - 490 mm	440 - 480 mm	140 kg	14.9 kg
MWS449520	Aspire Evoke 2 - 450mm Wide	400 - 475 mm	450 mm	430 - 490 mm	440 - 480 mm	140 kg	15.0 kg
MWS449530	Aspire Evoke 2 - 500mm Wide	400 - 475 mm	500 mm	430 - 490 mm	440 - 480 mm	140 kg	15.1 kg

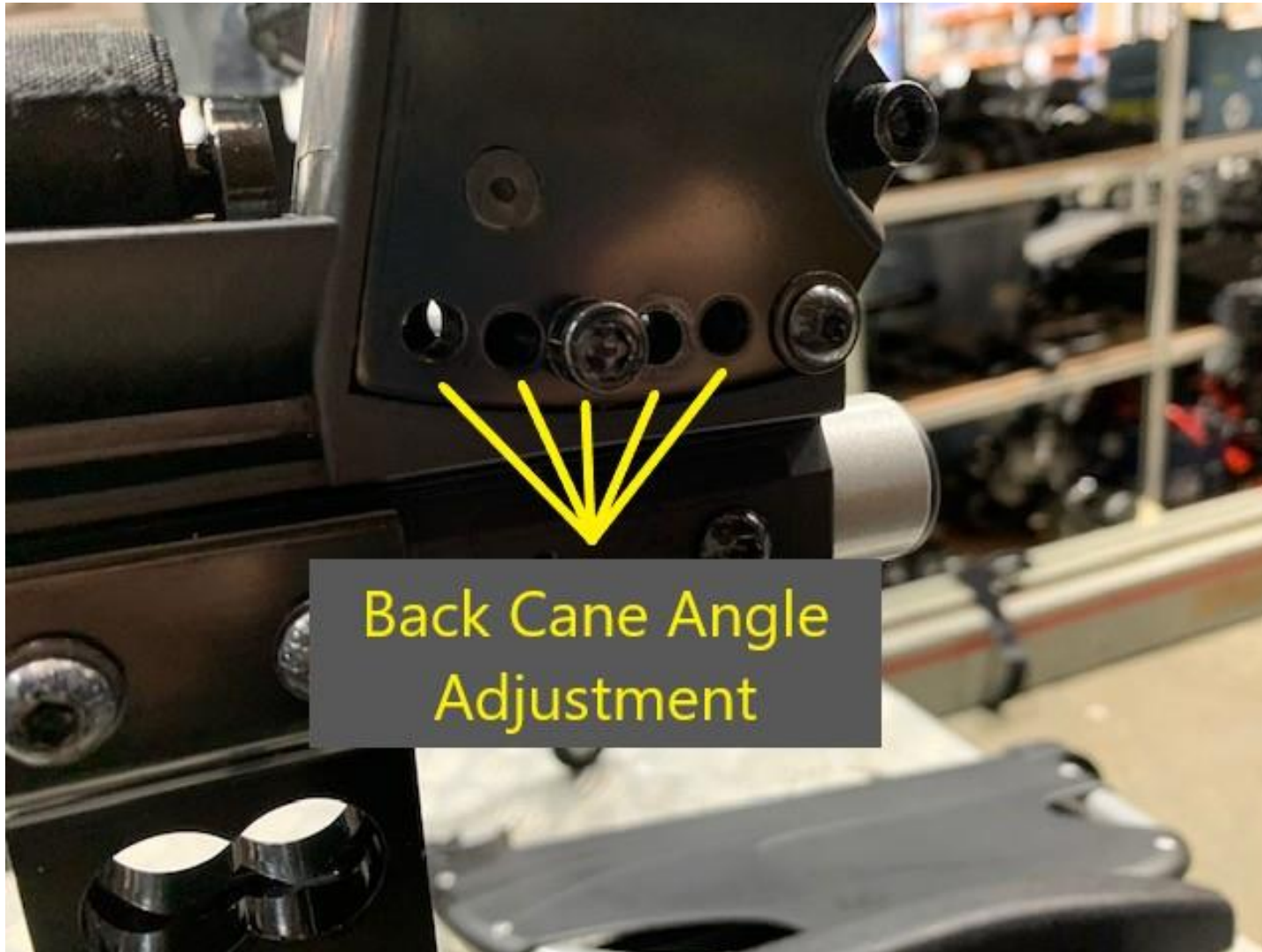


[aspire\\_wheelchair\\_range\\_brochure.pdf \(aidacare.com.au\)](#)

# Evoke 2 Adjustments



# Evolve 2 Adjustments



Back Cane Angle  
Adjustment

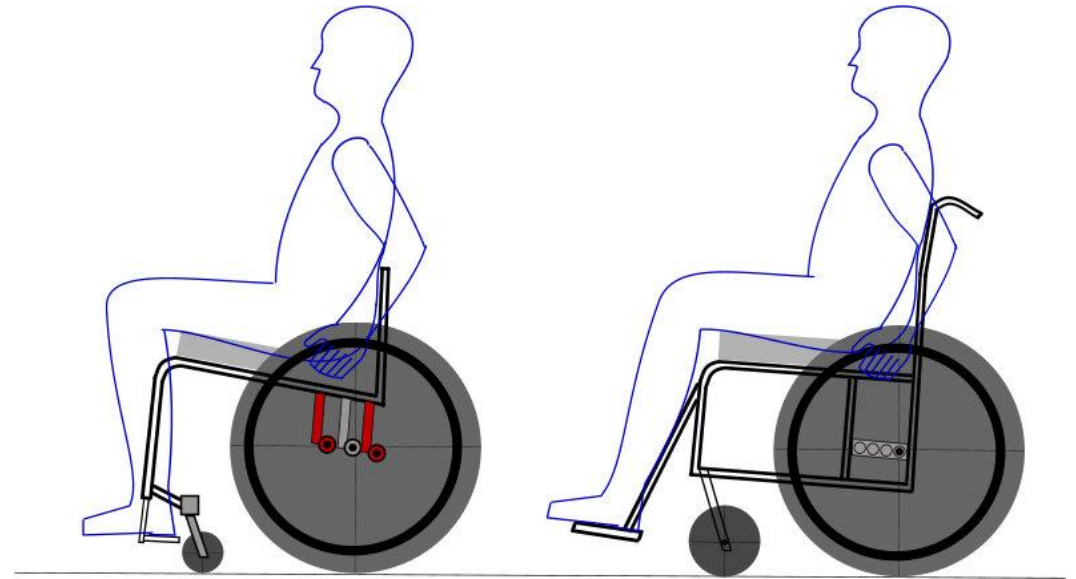


# Rear Wheel Position: Stability, Manoeuvrability, Efficiency

## **Stability** is king

- Cannot have the chair tip over backwards on a ramp or slope
- Cannot have power wheelchair wheel stand on ramp or slope

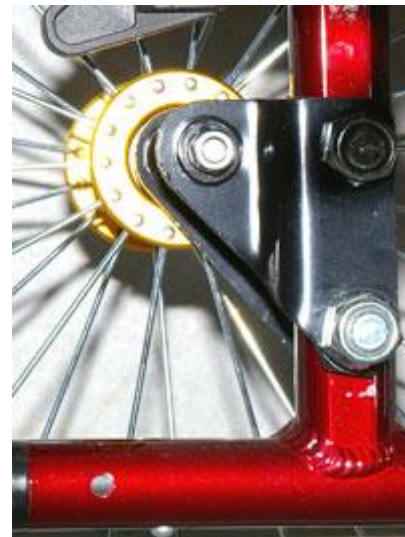
If user can lean forward to compensate for casters lifting off ground, **we can and should move the rear wheels forward** from the standard position shown at right.



## **Amputee axle** setting

May be warranted for above knee amputee, particularly bilateral AKA:

- May not be warranted if the user has a large abdominal mass as weight is distributed more over front casters
- Reversible wheel mount bracket may be sufficient or Longer wheel mounting brackets



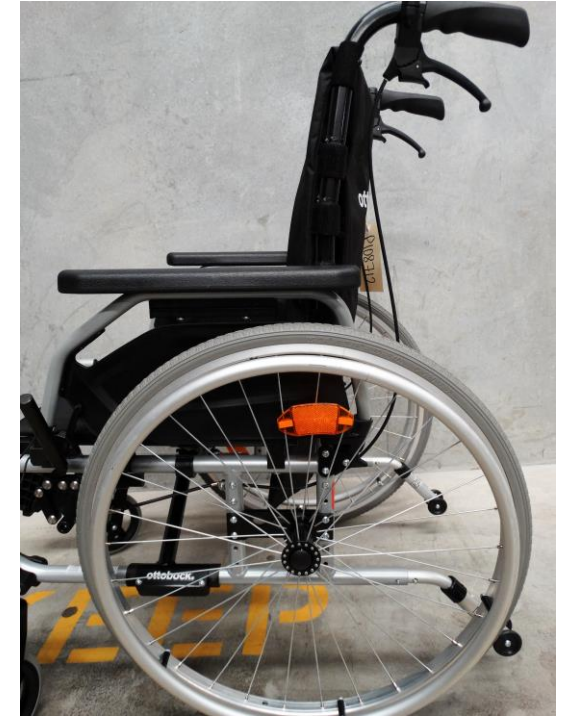
# MASS - Wheel Locks vs Drum Brakes

Brake lever Extn's May be included as an 'extra' item added to a quote.

Drum brakes May be included within base cost of wheelchair or an 'extra' item added to quote.

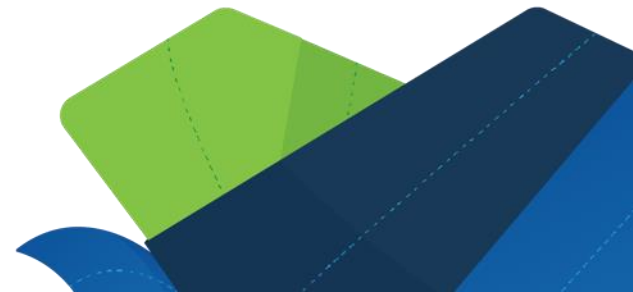
- When in base cost, can be funded within basic manual wheelchair subsidy
- When an extra, there is no additional MASS subsidy to fund drum brakes, can result in co-payment

Active Medical Sovereign  
with drum brakes



# Larger Sizes and Higher Loads

- Seat width may be available but chair must have sufficient load capacity; e.g. Karma flex HD up to 60cm seat width, limited to 170kg load capacity
- Fluctuations can be rapid: increases and decreases in user weight of 30-50kg not uncommon for people over 120kg, best to allow/consider potential for changes
- Lymphoedema management can also lead to large changes in user weight



# Lower Limb Amputees

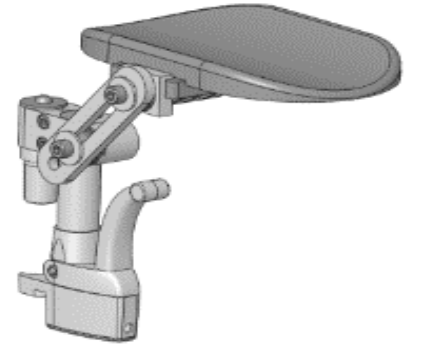
Almost all the MWC's on MASS SOA have a stump support option listed as an available accessory.

Consider the cost of stump supports as MASS subsidy for each stump support \$150 may not cover total. NB. If the overall cost of MWC was below subsidy then there may be ability to include within base cost of wheelchair

BKA often begin using wheelchair without prosthesis then may use prosthetic leg later once fabricated ( if an option).

Some considerations:

- Obtain stump support for below knee amputation to prevent contracture
- With adjustable height stump support, will it hold weight of residual limb?
- Is a leg rest required in addition to the stump support



# SOA Powered Wheelchairs



# MASS SOA Powered Wheelchairs

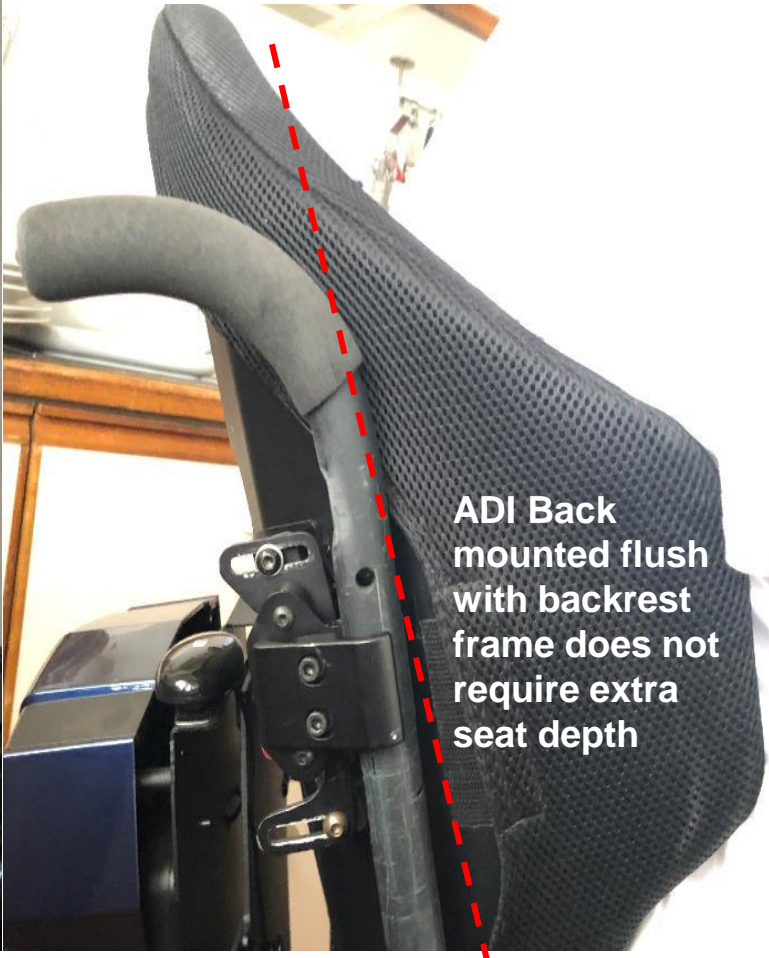
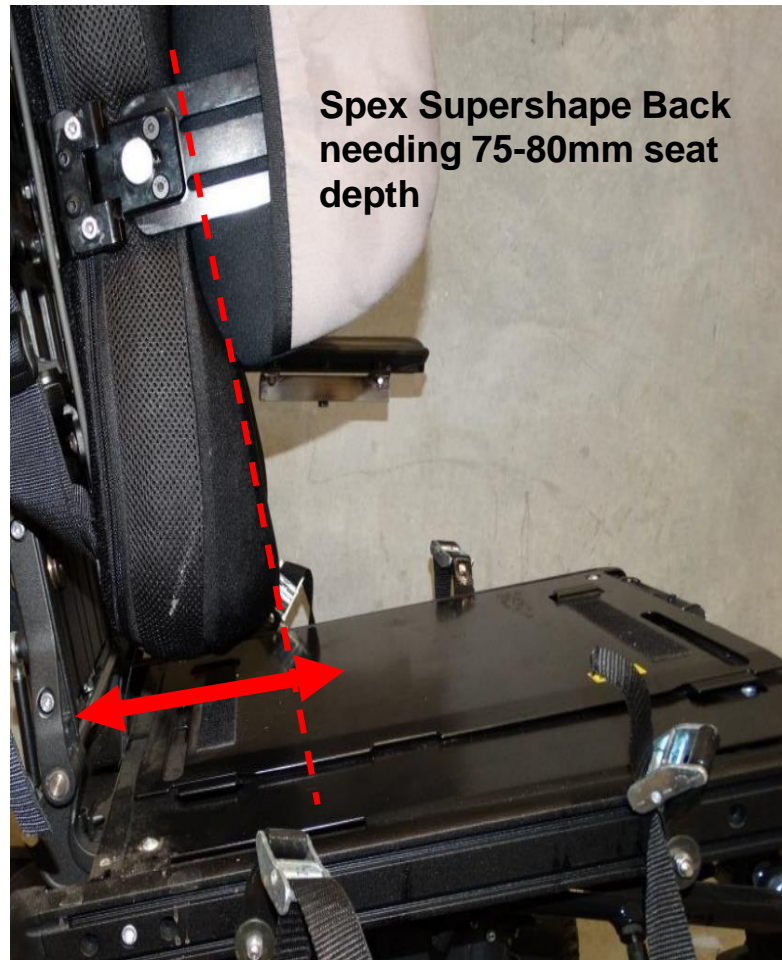
Supplier	Client Group	Product Type/Drive Wheel Position (WD)	Product Brand	Product Name	Safe Working Load (kg)	Weight (kg) NB. Where one Wt is listed = smallest sized PWC	Seat width (cm)	seat depth / range (cm)	Overall Width (cm)	Overall Length (cm) no leg rests	STF Height (cm)	Turning Radius (cm) without leg rests Ctr mount add ? SA add	arm rest	Powered seat tilt available	Crash testing seat occupied ??kg	Specific Features/Accessories	Brochure Link
AC Mobility	Adult	Rear WD	Meyra	MC2	160	100 (No Batteries)	38-65	40-56	58-62	83 (113 with leg rests)	44-68	84	24-35	Yes	Yes		<a href="https://meyra.com.au">https://meyra.com.au</a>
AC Mobility	Adult	Front WD	Meyra	MC-F	160	110 ( No Batteries)	38-65	40-56	62	91 (113 with leg rests)	44-51	65	24-35	Yes	Yes		<a href="https://meyra.com.au">https://meyra.com.au</a>
AC Mobility	Paed	Rear WD	Meyra	MC-S	75	89 ( No Batteries)	30-44	30-40	58	79 (97 with leg rests)	42-47	84	18-25	Yes	Yes		<a href="https://meyra.com.au">https://meyra.com.au</a>
AC Mobility	Adult	Front WD	Meyra	Optimus2	150	150 ( No batteries)	38-65	42-53	68	103 (116 with legrests)	58,61,65	120	19-25,23-29	Yes	Yes		<a href="https://meyra.com.au">https://meyra.com.au</a>
Invacare	Ad/Paed	Rear WD	Invacare	Storm Ranger X	180	aidacare - steve	41-61	41-61	68	80 (105 with legrests)	43.5-53	82	23-40	Yes	Yes		
Invacare	Ad/Paed	Rear WD	Invacare	Storm Torque SP	136	135 ( No batteries)	30-61	30-61	64	80 (105 with legrests)	43.5-53	82	23-40	Yes	Yes		<a href="https://www.invacare.com.au">https://www.invacare.com.au</a>
Invacare	Adult	Mid WD	Invacare	TDX SP2	136	130 ( No batteries)	30-61	30-61	61-65	90 (112 with legrests)	44,46,49	51	23-40	Yes	Yes		<a href="https://www.invacare.com.au">https://www.invacare.com.au</a>
Invacare	Adult	Mid WD	Invacare	TDX SP HD	180	aidacare - steve	30-61	30-61	61	90				Yes	Yes		<a href="https://www.invacare.com.au">https://www.invacare.com.au</a>
Invacare	Adult	Mid WD	Rovi Mobility	X3	136	130 ( No batteries)	30-56	30-61	59	92 ( 111 with SA legs)	43-51	51	24-47	Yes	Yes		<a href="https://www.rovimobility.com.au">https://www.rovimobility.com.au</a>
Permobil Australia	Adult	Mid WD	Permobil	M1 14",16",18"20",22"	136	145 ( No batteries)	36-56 ( Fixed Seat	36-56 ( 2	61	90	41,43.5,46	52		Yes	Yes	Manual elevating leg rest	
Pride Mobility - Review Q6edge2.0	Adult	Mid WD	Jazzy	J623 Plus VR2 2.0 (with Lift & tilt	136		30-56	30-56	62	90.2	42-47	52		Yes	Yes		
Pride Mobility	Adult	Mid WD	Jazzy	J623 VR2 2.0	136 ( tilt 113)	63 base weight	30-56	30-56	62	90.2	42-47	52		Yes	Yes		<a href="https://e784b5.com.au">https://e784b5.com.au</a>
Pride Mobility	Adult	Mid WD	Quantum	Edge Z (Q6000Z)	136	65	25-61	25-61	68	91	46-51	52		Yes	Yes		<a href="https://www.pridemobility.com.au">https://www.pridemobility.com.au</a>
Pride Mobility	Adult	Mid WD	Quantum	Q6 Edge 2.0 QL3	136	63	25-56	25-56	62	82 95 ?ctr	40-45	52		Yes	Yes		<a href="https://www.pridemobility.com.au">https://www.pridemobility.com.au</a>
Pride Mobility	Adult	Mid WD	Quantum	Q6 Edge 2.0 QL3 iLevel	136		30-56	30-56	62	90	40-45	52		Yes	Yes		<a href="https://www.pridemobility.com.au">https://www.pridemobility.com.au</a>
Pride Mobility	Adult	Mid WD	Quantum	Q6 Edge HD	204 (181 with iLevel)	65	51-71	51-71	68	90	40-45	50		Yes	Yes		<a href="https://www.pridemobility.com.au">https://www.pridemobility.com.au</a>
Pride Mobility	Ad/Paed	Front WD	Quantum	Quantum 4 QL3	136	63.5	30-56	30-56	61	102		62		Yes	Yes		<a href="https://www.pridemobility.com.au">https://www.pridemobility.com.au</a>
Pride Mobility	Adult	Rear WD	Quantum	R44	136	68 base weight add x2Batt	25-56	25-51	64	88	45	92		No			<a href="https://www.pridemobility.com.au">https://www.pridemobility.com.au</a>
Think Mobility	Ad/Paed	Mid WD	Glide	Glide Centro	250	84 ( typical 134-142)	49-73 (custom avg	40-61	62	90	46			Yes	Yes		<a href="https://www.thinkmobility.com.au">https://www.thinkmobility.com.au</a>
Think Mobility	Adult	Rear WD	Glide	Glide Series 4	150	49-52	37-52	35-46	SW43=6	95	46, 51			Yes	Yes		<a href="https://www.thinkmobility.com.au">https://www.thinkmobility.com.au</a>
Think Mobility	Ad/Paed	Standing	LEVO	C3 (standing PWC)	140		32-52 (+4cm)	38-66	63	105	30-50		17-26	No	Yes		<a href="https://cdn.shopify.com">https://cdn.shopify.com</a>

# Powered Wheelchairs Adjustability



# Translating User Measurement to Seat Size:

Is extra Width/depth required to fit a supportive backrest or to stay centred in seat, to not lean to one side or rotate in seat?



# Larger Sizes and Higher Loads

- Chair must have sufficient load capacity
- Fluctuations can be rapid: increases and decreases in user weight of 30-50kg not uncommon for people over 120kg, best to allow for changes
- Lymphedema management can also lead to large changes in user weight
- Check powered seat functions Tilt/elevate SWL limit?? *Not the same as Chair base*



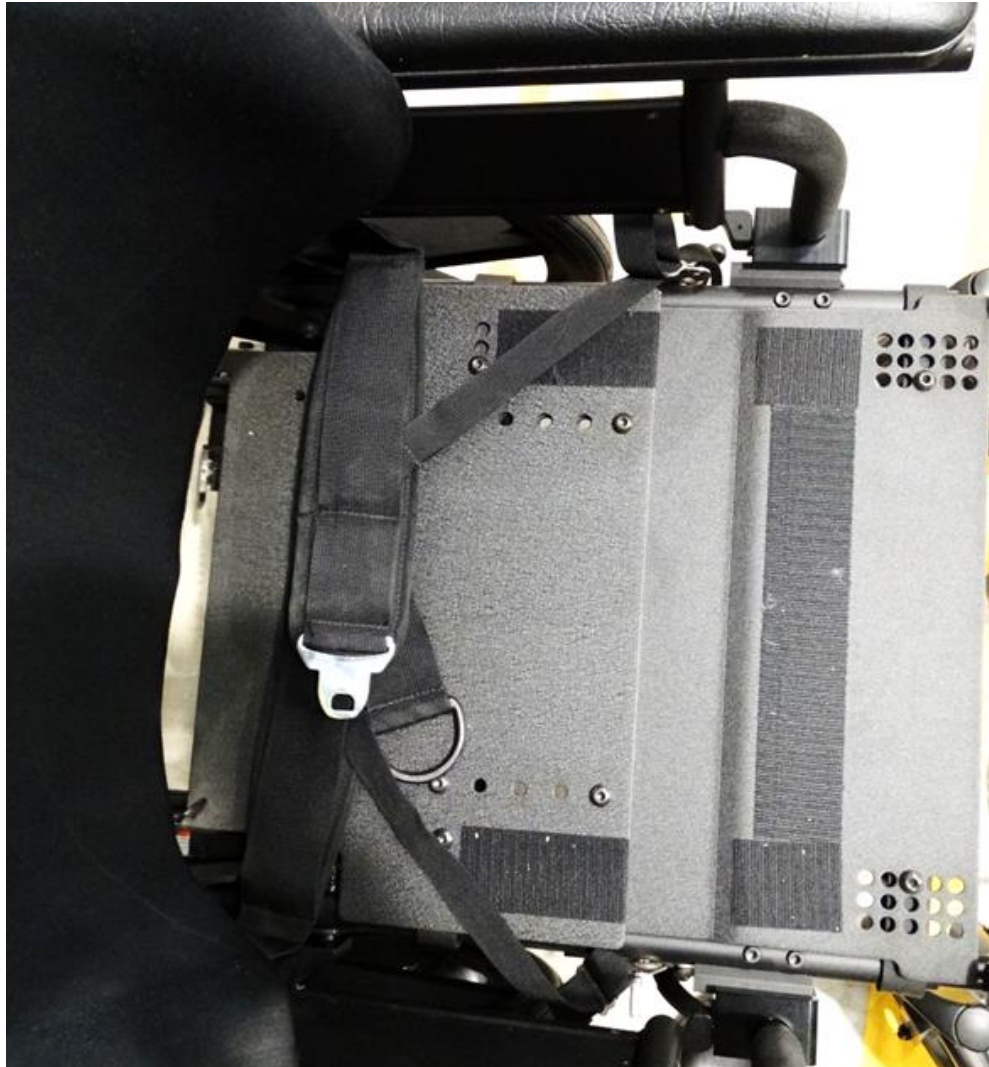
# SOA TIS Wheelchairs



# MASS SOA TIS Wheelchairs

Supplier	Client Group	Frame Type	Subsidy Category (* within Basic subsidy)	Product Brand	Safe Working Load (kg)	Weight (kg) NB. Where one Wt is listed = smallest sized MWC (Adult= 16x16) ( Transport weight add 3-3.5kg for rear wheels)	seat width (cm)	seat depth / range (cm)	Overall Width (add -21-22cm to seat width)	STF Height (cm)	Tilt Range (degrees)	Back rest height (cm)	Arm rest height (cm)	Option to fit OAD / Lever	Option to fit Stump support	Option to fit Drum brakes	option of 12" Transit rear wheel	Option of Amputee axle setting	Option to fit tie downs	Crash testing seat occupied ??kg	Specific Features	Accessories	Brochure Link
Aidacare	Adult	Manual Wheelchair	Aspire	REHAB RS tilt and recline	180	40.7,42.5,46.7	41-46,46-51,51-56	44-53,	69, 74,79	41-44	26 & 30 rec	46-71	31-46	No	Yes	Yes	No	No	Yes	Yes	The REHAB RS is an ideal solution		<a href="https://www.aidacare.com.au">https://www.aidacare.com.au</a>
Aidacare	Adult	Manual Wheelchair	Aspire	REHAB RX tilt and recline	180	41,43,47,2	41-46,46-51,51-56	44-53	69, 74,79	41-44	26 & 30 rec	46-71	31-46	No	Yes	Yes	No	No	Yes	Yes	The REHAB RX is geared towards		<a href="https://www.aidacare.com.au">https://www.aidacare.com.au</a>
Aidacare	Paed	Manual Wheelchair	Aspire	REHAB RX Junior	180	39.5	32-37	44-49	60	41-44	26 & 30 rec	46-71	31-46	No	Yes	Yes	No	No	Yes	Yes	The Aspire REHABRX JNR is designed		<a href="https://www.aidacare.com.au">https://www.aidacare.com.au</a>
Country Care Group	Paed	Specialised Strollers	Convoid	Trekker/ Trekker Transit	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA					
Healthcare Innovations	Paed	Specialised Strollers	Leggero	Leggero Track 12/14	36	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA					
Invacare	Adult	Manual Wheelchair	Invacare	Azalea	135	34	39-54	43-50	SW+23	45	25					Yes	No		Yes	Yes	The Rea Azalea is the natural choice		<a href="file:///C:/">file:///C:/</a>
Invacare	Adult	Manual Wheelchair	Invacare	Azalea Max	180	54	55-66	53-60	SW+25	40-45	25					Yes	No		Yes	Yes			<a href="https://www.invacare.com.au">https://www.invacare.com.au</a>
Invacare	Ad/Paed	Manual Wheelchair	Invacare	NXT	100	10 (Transport)	25-51	30-61	SW+20	32-47	45					Yes	Yes		Yes	Yes			<a href="https://www.invacare.com.au">https://www.invacare.com.au</a>
Invacare	Adult	Manual Wheelchair	Invacare	PRO CG	115	17	30-36,36-46,46-51	30-66	SW+22	38-48	50					Yes	Yes		Yes	Yes			<a href="https://www.invacare.com.au">https://www.invacare.com.au</a>
Invacare	Ad/Paed	Manual Wheelchair	Invacare	Solara 3G	136	40	30-61	30-56	SW+22	32-49	55					Yes	No		Yes	Yes			<a href="https://www.invacare.com.au">https://www.invacare.com.au</a>
Invacare	Paed	Manual Wheelchair	Invacare	Azalea Minor	75	32	34-39	38-45	SW+22	40	25					Yes	No		Yes	Yes			<a href="https://www.invacare.com.au">https://www.invacare.com.au</a>
Mobility Plus	Paed	Specialised Strollers	Patron	Tom 5 Streeter-SE	35-50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA					Lightweight fully adjustable, foldable rehab stroller
Motion Specialties	Ad/Paed	Manual Wheelchair	Ki Mobility	Liberty FT	113	11.7 (Transport)	36-56	36-51	SW+22	33-51	20					Yes	Yes						<a href="https://www.motion-specialties.com.au">https://www.motion-specialties.com.au</a>
Motion Specialties	Paed	Manual Wheelchair	Ki Mobility	Flip XP	75	9.5 (Transport)	25-46	30-51	SW+	34-51													<a href="https://www.motion-specialties.com.au">https://www.motion-specialties.com.au</a>
Motion Specialties	Ad/Paed	Manual Wheelchair	Ki Mobility	Focus CR	136	14.97 (Transport)	36-61	36-56	SW+22	NA	Recline 65	46-69	16-37			Yes	Yes						
Think Mobility	Adult	Manual Wheelchair	Glide Rehabilitation Products	Glide Comfort Plus Custom Care Glide Comfort Plus 2	100	150kg on website but user manual says															The Comfort plus is an exciting new design		

# Tilt-in-Space Wheelchair Frames and Seat Pans Offer a Range of Adjustment Options



Left: Quickie Iris depth adjustable seat pan  
Above: Quickie Iris width adjustable frame

# Back Rest & Head Support

- Client's needing full trunk support or utilising tilt or recline – should have a head support or a backrest that is high enough to provide support
- To be eligible for the MASS Head rest subsidy of \$400. The applicant needs to require the head rest for adequate head support or respiratory needs as part of their normal functioning ... not purely for transport



# Case Scenario - Bob

- 78 y.o. male
- Medical History: R) BKA, T2DM, peripheral neuropathy, mild kyphosis and some back pain
- Body dimensions: 180cm & 68kg
- MWC requirement: need to accommodate tall, slim build, provide some flexibility with backrest tension, height adjustable a/r, and a R) stump support. Transfers between similar level surfaces so needs the STF height set up to match
- Impaired sensation in L) foot and buttocks so need to consider pressure redistribution surfaces



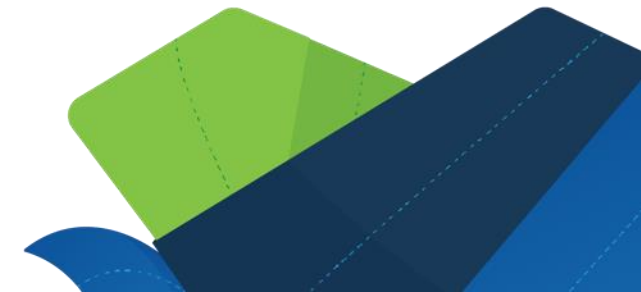
# Case Scenario - Sam

- 66 y.o. gent
- Medical History: R) CVA with dense L) hemiparesis and ↑ upper limb tone
- Body Dimensions: 165cm & 90kg
- Unable to walk independently
- Impaired sensation and at risk of developing pressure injuries
- W/c requirement: enable him to indep propel or operate the chair with his R) UL, with dimensions to accommodate his anthropometrics
- He will need support for his L) UL, a backrest to support his mild kyphoscoliosis, and a STF ht suitable for assisted stand/pivot transfers



# Case Scenario - Janice

- 67 y.o. female
- Medical History: T2DM, CCF, Morbid Obesity, generalised OA, severe cellulitis
- Body Dimensions: 165cm & 260kg
- Unable to walk independently
- Weight fluctuates significantly depending on fluid levels in her legs
- W/c requirement: MWC or PWC, with dimensions to accommodate her anthropometrics
- Seat width 25"
- SWL >270kg

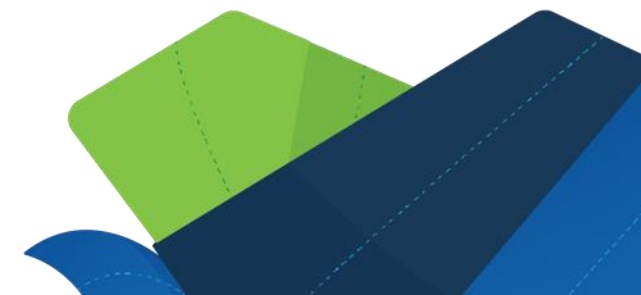


# MASS SOA options

- There are no manual or power wheelchair options on the MASS SOA with adequate seat width and SWL.
- Non SOA request is required.
- Discuss potential options with MASS

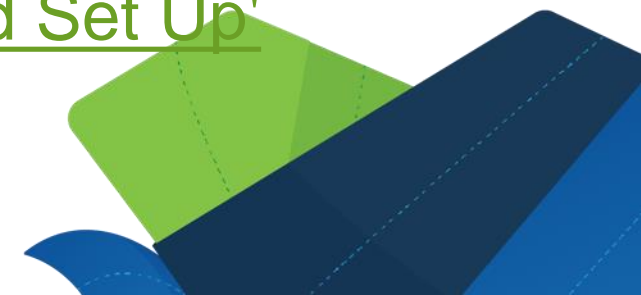
Product Name	Safe Working Load (kg)	seat width (cm)
Karma Flexx HD ( 20", 22",24")	170	51,55,60.5
Glide 3 HD (14.5"-20.5")	180	37- 52 (+3cm sizing)

Product Name	Safe Working Load (kg)	Seat width (cm)
Glide Centro	250	49-73 (custom ava



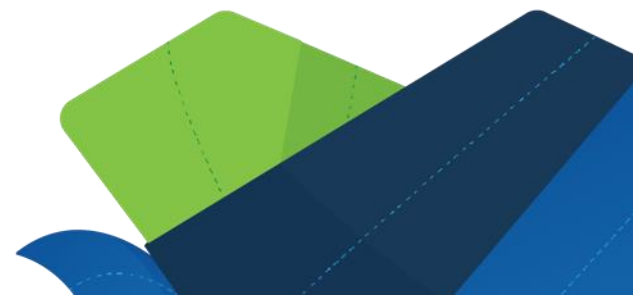
# Resources – MASS Recorded Webinars

- 'Checking AT Fit for the Home- strategies for specific areas of the home' webinar 16/6/21
- 'Top Tips for Choosing a Wheelchair' webinar 22/3/2019
- 'Will this Wheelchair be Fit for Purpose - Posture and Function' webinar 7/11/2019
- 'Will this Wheelchair Fit - Seat width and Depth Considerations' webinar 31/10/2019
- 'Essential Measurements - Measuring the Person' webinar 15/3/2018
- 'Essential Measurements - Ordering the Right Size and Set Up' webinar 21/3/2018



# Resources from SPOT

- [Powerdrive Wheelchair Features \(health.qld.gov.au\)](http://health.qld.gov.au)
- [Powerdrive Wheelchair Assessment and Evaluation Form \(health.qld.gov.au\)](http://health.qld.gov.au)
- [Comparison of Front, Mid, and Rear Wheel Drive Power Chairs \(health.qld.gov.au\)](http://health.qld.gov.au)
- [Manual Wheelchairs - Information Resource for Service Providers \(health.qld.gov.au\)](http://health.qld.gov.au)



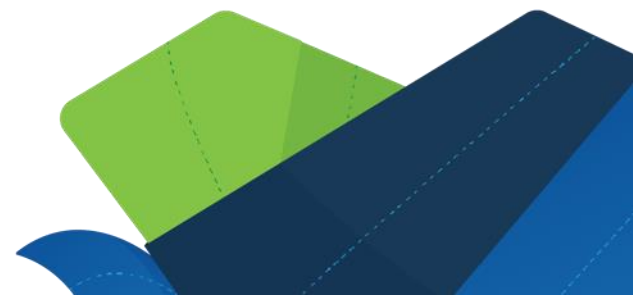
# Other Resources

- [AT Practitioner Manuals | SWEPP \(bhs.org.au\)](https://www.bhs.org.au)
- [Guidelines for the prescription of a seated wheelchair or mobility scooter for people with a traumatic brain injury or spinal cord injury \(nsw.gov.au\)](https://www.nsw.gov.au)
- [A guide to choosing and using mobility scooters and powered wheelchairs Victoria Government](https://www.vic.gov.au)
- [Wheelchair comfort tool | icare \(nsw.gov.au\)](https://www.nsw.gov.au)



# Wheelchair Skills Training

- [Wheelchair Skills Program](#)
- [Training topics checklist for wheelchairs | icare \(nsw.gov.au\)](#)

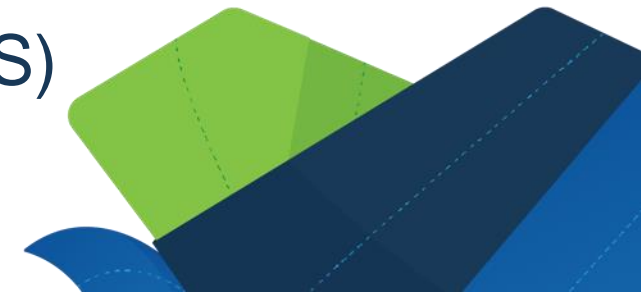


# Outcome Measures for Seating and Mobility Interventions

- Wheelchair Outcome Measure (WhOM)

<https://millerresearch.osot.ubc.ca/tools/mobility-outcome-tools-2/the-wheelchair-outcome-measure-whom/>

- The Assistive Technology Outcomes Profile for Mobility (ATOP/M)
- The Functional Evaluation in a Wheelchair Questionnaire (FEW-Q)
- Functioning Everyday with a Wheelchair (FEW) v2
- Functioning Everyday with a Wheelchair-Capacity (FEW-C) and Performance (FEW-P)
- Wheelchair Skills Test
- Wheelchair Users Functional Assessment (WUFA)
- Psychosocial Impact of Assistive Devices Scale (PIADS)
- The Functional Independence Measure (FIM)

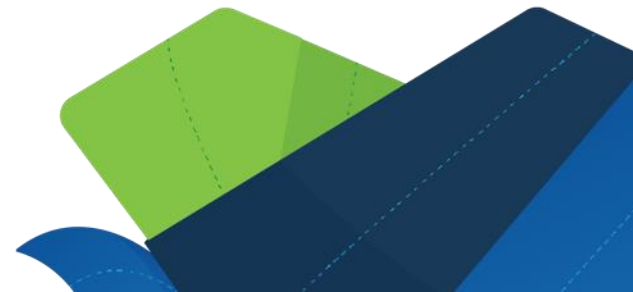


# Thank you!



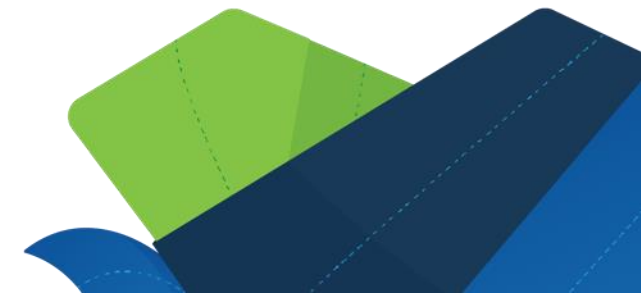
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# Suggested Reading

- Auger, C. et.al (2018). Reliability, convergent validity and applicability of the Assistive Technology Outcome Profile for Mobility for middle-aged and older power wheelchair users. *Australian Occupational Therapy Journal*, 65: 439-448.
- Digiovine, C.P. et.al. (2021). Wheelchairs and Seating Systems in *Braddom's Physical Medicine and Rehabilitation. Sixth Edition*, 14, 261-290.
- Ding, D. et.al. (2008). Usage of tilt-in-space, recline, and elevation seating functions in natural environment of wheelchair users. *Journal of Rehabilitation Research & Development*, 7, 973-984.
- Michael, E., Sytsma, T. & Cowan, R.E. (2020). A primary care provider's guide to wheelchair prescription for persons with spinal cord injury. *Topics in Spinal Cord Injury Rehabilitation*, 26(2), 100-107.
- Moody, L. et. al (2017). Establishing user needs for a stability assessment tool to guide wheelchair prescription. *Disability and Rehabilitation: Assistive Technology*, 12(1), 47-55. <https://doi.org/10.3109/17483107.2015.1063019>



# Suggested Reading Cont.

- Mortenson, W.B., Miller, W.C. & Miller-Pogar, J. (2007). Measuring wheelchair intervention outcomes: Development of the Wheelchair Outcome Measure. *Disability and Rehabilitation: Assistive Technology*, 2(5), 275-285.
- Mortenson, W.B., Miller, W.C. & Auger, C. (2008). Issues for the selection of wheelchair-specific activity and participation outcome measures: A Review. *Arch Phys Med Rehabil* 89,1177-1186.
- Rolfe, J. (2012). Planning wheelchair service provision in motor neurone disease. Implications for service delivery and commissioning. *British Journal of Occupational Therapy*, 75(5), 207-222.
- Stefanac, S. Grabovac, I and Fristedt, S. (2018). Wheelchair users' satisfaction with the prescribed wheelchairs and wheelchair services in Croatia. *Collegium. Antropologicum*, 42, 101-113.
- Ward, A.L. et.al. (2010). Power wheelchair prescription, utilization, satisfaction, and cost for patients with amyotrophic lateral sclerosis; preliminary data for evidence-based guidelines. *Arch Phys med Rehabil*, 91, 268-272.

