

# Ceiling Hoist Planning Tool

Issue 2

We believe in partnering with healthcare professionals within allied health, to provide better patient outcomes through quality of our equipment solutions.

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Planning	

#### CAPABILITY STATEMENT

A planning tool offering architects, consulting engineers and Project Managers a guide that simplifies the planning of effective ceiling hoist systems in Schools, Homes, Aged Care Homes or Hospitals throughout Queensland.

Active Medical Supplies is a pioneer in medical device and equipment manufacturing. The experienced team at Active Medical understand both professionally and personally, the importance of maintaining independence within the comfort of your own home or the community including educational settings. A lot of the people we help are still independent, however, just need assistive solutions as result of an injury, Hospital visit, Healthcare professional's advice or to help loved ones with their daily life.

With over 30 years of experience helping with solutions in community care, we understand sometimes that daily tasks may become difficult. Often things that we have taken for granted like getting out of bed, lifting yourself from a chair or just even moving around the house, inherit more effort than they have before.

For those who come into our showroom, we can replicate the scenarios you would face at home with our daily living set ups. Our experienced and courteous staff gladly provide all the information and assistance you require.

We work extensively with Physiotherapists, Occupational Therapists and Aged Care Clinicians so that we can find the right form of solution for you. Over the course of 30 years, we have provided solutions to community care with diligence and professionalism. Our customers' assurance comes from the fact that we help you find the most suitable solution.

We take great pride in the assembling and manufacturing of all of our products. We culminate to the highest standards in care, comfort for the patient and project cost efficiency.

# **Procurement & Distribution**

Active Medical has developed a network of manufacturers in Australia and around the world – from Germany and Sweden to the United States of America and consults directly with industry professionals to ensure the products we provide responds to unique patient specifications.

The success of our business is supported by our ability to collaborate with manufacturers that not only provide the highest quality of products and services, but are aligned with our mission and commitment to our social, corporate and environmental responsibilities.

Our efficient distribution systems are underpinned by our strong relationships with manufacturers and two centralised warehouses with a capacity to hold up to 50,000 items. This ensures the fast turn around and on time delivery demanded by the health care industry and the needs of people in care. We ensure that all our products are ethically sourced and supplied and meet environmental standards.



#### \*Disclaimer

Active Medical Supplies does not take responsibility for incorrect application of products. This publication is a guide only to assist in selecting products suitable to your clients. Please use in conjunction with professional advice.

#### CAPABILITY STATEMENT

# Did you know...





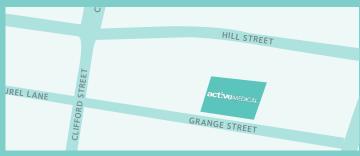






# Come in & have a chat! Book a consultancy today!







Cannon Hill



Toowoomba



**Showroom Opening Hours** 



**Showroom Opening Hours** 

<sup>\*</sup>Products and information listed in this catalogue are subject to change. Website and digital information supercedes all print. For the most up to date information, please contact us directly via the details listed above.



Questionnaire			

# FUNCTIONAL REQUIREMENTS

# SUPPLIES > SOLUTIONS > SUPPORT

These are the **key attributes** Active Medical aims to provide each and every customer. Our goal is to find a solution to every need and offer Support, every step of the way.

When it comes to lifting a disabled person, a system that provides security, safety and comfort is required. Not just for those being lifted, but those doing the lifting. Part of our extensive product range focuses on patient handling aids for securely, safely and comfortably lifting and moving disabled people. The **Sugarglider Ceiling Hoist System** is a simple but comprehensive system that is characterised by great flexibility.



A stationary lifting solution, consisting of a ceiling lift unit mounted either on a permanently installed rail system or on a freestanding lift stand, is an ergonomically ideal alternative that eliminates manual lifting and allows the caregiver to always choose the optimal working stance. Furthermore, the lift system is always in place, it requires a minimum of floor space and it is very easy to manoeuvre. Another advantage is that the system provides a large lifting area and the possibility of both low and high lifting.

Active Medical's Sugarglider system is a complete, ingeniously simple and safe rail system for permanent installation on the ceiling and/or on the walls. Each Sugarglider rail system is individually designed, in close cooperation with the customer, allowing for adaptation to specific conditions and requirements. Together with an optional choice of ceiling lift unit and the appropriate lifting accessories, Sugarglider offers unlimited possibilities for design and adaptation of the perfect stationary lifting solution for all settings, rooms and lifting needs.



# FUNCTIONAL REQUIREMENTS

When designing new or renovating existing buildings for use by people with a range of disabilities, its important that those doing the hands on work with the clients are involved. There are many aspects to consider when choosing assistive technology to facilitate lifting and moving these people. Once it has been established that there is a need to reduce the risk of injury for carers

and/or staff when lifting or moving people, we must determine where the lifts will be performed. If the person only needs to be toileted, we can focus on the bathroom. If the person needs to be transferred for therapy, class interaction or gait training, we need to focus on the classroom or therapy rooms.

#### THE FOLLOWING QUESTIONS WILL BE ASKED:

Have you involved those handling the clients/patient's/student's in the planning process?

#### **Step 1. Planning Committee**

NAME	ROLE	REASON
	Principle / Facility Manager	
	Physio / Occupational Therapist	
	Teacher Aide	
	Carers / Nurses	

How often are the clients/patient's/student's being handled or lifted?

#### **Step 2. Lift duration & frequency**

AREA	QTY CLIENTS/ PATIENT'S/STUDENT'S	FREQUENCY (DAILY)	LIFT DURATION (EA MIN)
1. Bathroom	5	3	15 mins
2. Classroom			
3. Therapy Room			
4. Gym			
5. Pool			
6. Walking Training Area			
7.			
8.			
9.			
10.			

# FUNCTIONAL REQUIREMENTS

# How ideal is working environment? **Step 3. Current Working Environments/New Build Expectations**

AREA	SIZE ( M X M)	CONCERN 1	CONCERN 2	CONCLUSION
1. Bathroom	3 x 3 m	Limited room between toilet, shower and change table.		Tight angle bends are available for small spaces
2. Classroom	10 x 7 m	Use of therapy table (height)	Limited room between toilet, shower and change table.	
3. Therapy Room				
4. Gym				
5. Pool		9 mtr high ceilings		Large span wall mount options
6. Walking Training Area				
7.				
8.				

How can we remove current manual handling risks? **Step 4. Risk Identification** 

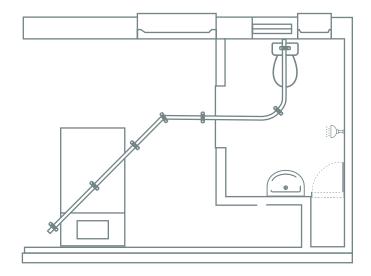
IDENTIFY RISKS	CURRENT RISK (YES/NO)	WILL A CEILING HOIST ELIMINATE RISK?	NOTES
1. Wheelchair – Toilet/ Commode	e		
2. Up from floor			
3. Support for gait training			
4. Wheelchair – Change Table			
5. Wheelchair - Floor			
6. Wheelchair – Therapy Table			
7.			
8.			
9.			
10			

11.



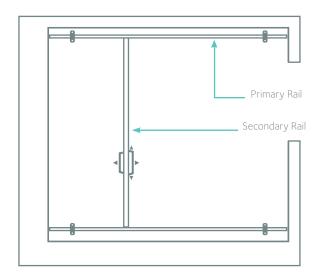
#### **SOLUTION TYPES**

#### **ROOM LAYOUT/TRACKING DESIGNS**



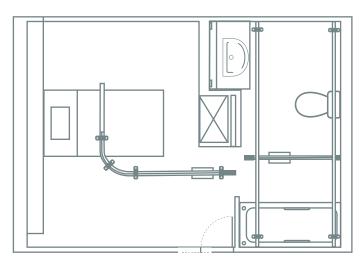
### Sugarglider® Basic Rail Systems

A basic rail system consists of one or more straight rails, with or without curves for increased room coverage, flexibility and utilisation.



# Sugarglider® Full Room Coverage Rail Systems - XY Traverse Systems

A rail system with full room coverage consists of a pair of fixed (X axis -Primary) rails and one or two (Y axis- Secondary) cross rails/traverse rails. Each cross-rail is mounted on a pair of traverse trolleys and can travel sideways in the fixed rails along the total width of the lift system. This rail system allows the ceiling lift unit, which is mounted on a cross-rail, to travel in all directions and be used anywhere in the room. Two adjacent full room coverage rail systems can be connected by means of transition gate.



# Sugarglider® Multi-Room System

Fully integrated systems are the ultimate in ceiling hoist solutions. By using a comprehensive range of components we can provide opportunity to cover multiple rooms with a single system including traversing doorways, hallways and corridors.

#### **SOLUTION TYPES**

#### HOIST MOTOR OPTIONS





#### **Portable Hoists**

A portable motor is ideal for a location with many tracks that do not need to be used at the same time (e.g. client will use track in classroom, and then in bathroom, not required for use at the same time). This means the motor is detached from the tracking and relocated to another room for use when required. Ideally these are used in conjunction with a reacher/flexi-link and transported with a trolley.

#### **Fixed Manual Traverse**

A manual motor means the vertical lift and lower is powered, but it traverses along the track manually. This is used for lighter weight clients and in an environment where speed is of essence. The motor remains on the track at all times.





#### **Fixed Powered Traverse**

A power traverse motor has a both powered vertical lift/lower as well as horizontal (along the track). This is ideal for larger clients or where manual handling is to be kept to a minimum. This can also be used where a client is transferring on their own. This motor remains on the track at all times.

#### **Powered XY Motor**

This unit powers horizontal, vertically and also powers the secondary rails along the primary rails in a full room covering system known as XY.

A hoist to suit a powered XY System must have a handset with 6 buttons, 2 buttons to operate the up/down function, 2 buttons to operate the hoist along the secondary rail, and 2 buttons to operate the secondary rail along the primary rails.

These are mainly used when the caregiver is at risk of injury, or the client is bariatric.

#### **SOLUTION TYPES**

#### **INSTALLATION TYPES**

### **Rail Options**

A portable motor is ideal for a location with many tracks that do not need to be used at the same time (e.g. client will use track in classroom, and then in bathroom, not required for use at the same time). This means the motor is detached from the tracking and relocated to another room for use when required. Ideally these are used in conjunction with a reacher/flexi-link and transported with a trolley.

#### **Ceiling Mount**

- **1. Direct mount** tracking is fixed directly through plaster or fibro ceiling to roof trusses or structure
- Concealed tracking is fixed above the plaster so it is concealed. This can only be done in new builds, depending of roof structure
- **3. Pendant Mount** used when the ceiling is suspended. Tracking is mounted with pendants as ceiling is not supportive of weight.

#### **Wall Mount**

Wall mount systems are used when the ceiling void has no supports or the roofing structure is not sufficient to support the weight of tracking and user. The tracking is mounted using LVL supports to hold wall brackets. The span of the tracking is limited unless supports are used in addition to wall mounts. SWL of hoist/tracking is reduced, the wider the span, unless extra supports are added.

#### **Freestanding**

A freestanding track, or gantry may be utilised if the circumstance is temporary or the building is not of sufficient strength to support either wall or ceiling mount (e.g. demountable building).

# **Building Types**

Installation is possible into all building types, the most common are listed below:

- Post-war housing
- High Rise Units Residential or commercial
- Residential housing

- Demountable/portable buildings
- Schools
- Multi Story buildings/hospitals/aged care facilities
- Community Pools/change rooms
- Riding Schools
- Changing Places





Rail Types	
Rail Curves	
Electrical	
Planning Considerations	

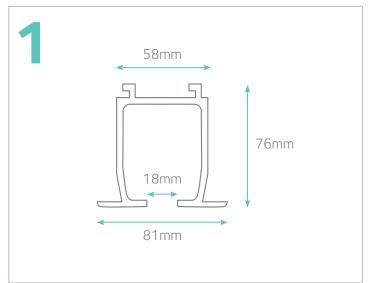
#### **RAIL TYPES**

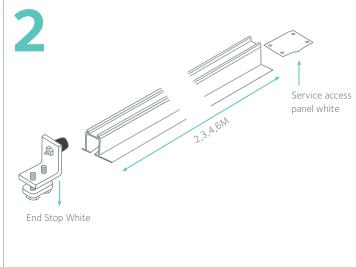
#### **Invisi-Track**

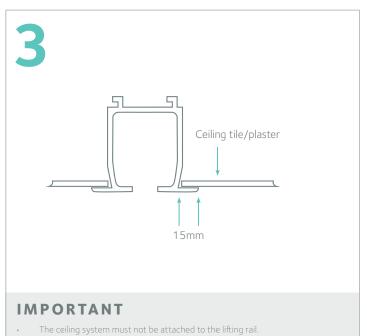
Invisi-Track tracking is used in new builds. The tracking is concealed in the roof to be aesthetically pleasing and to utilise space in the room. This must be installed at the time of ceiling installation.

Invisi-Track Section – For use in concealed rail applications.
 Advantages – Aesthetically pleasing, non-restrictive to sprinklers, smoke detectors and lighting. Reduced dust collection.
 Pendant Mount – Prior to ceiling grid, co-ordination with other services required. Sign off on finished ceiling height required.



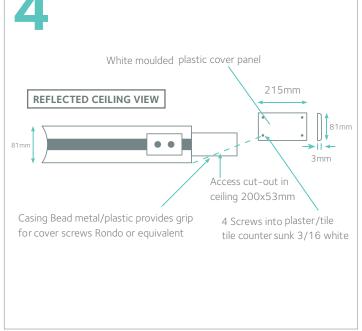






The ceiling system must be self supporting. No weight may be transferred to

the rail system.

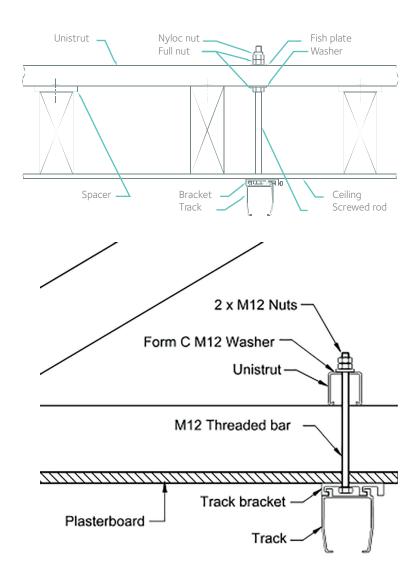


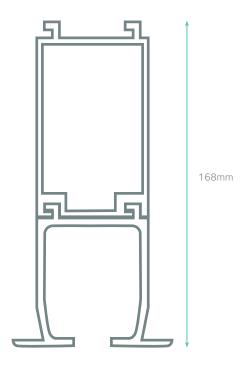
#### **Ex-Track Rail**

Ex-Track rail is used for retrofitting in existing establishments. It is used for single tracking systems.

#### **Ex-Track Plus Rail**

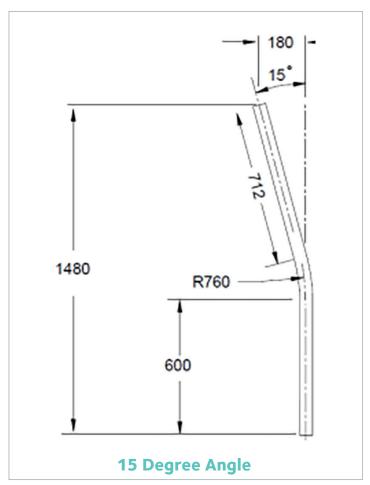
Ex-Track Plus rail has a deeper profile than standard rail to be used in XY systems or to span greater distances without the need for extra supports.

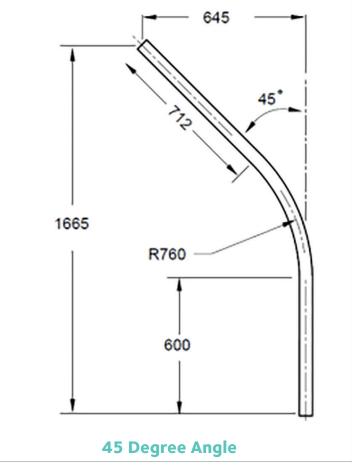


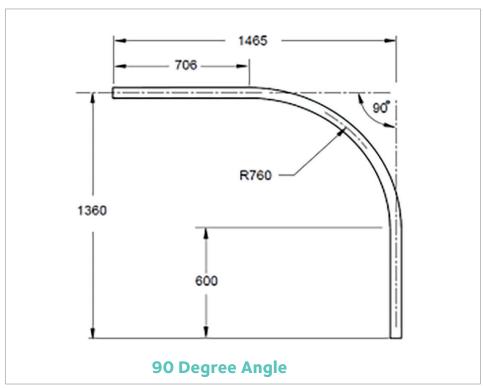


# **RAIL CURVES**

Rail curves in 15, 45 and 90 degree variants are available.



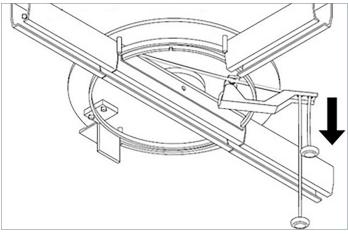




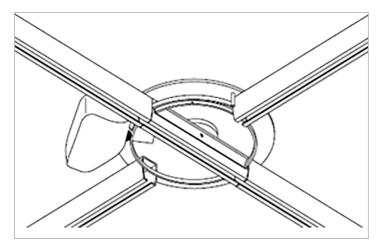
#### **TURNTABLES**

The turntable is ideal for solutions where junctions are required, or when a track turn is required that the standard bends cannot accommodate due to space restrictions.

The tracks that run into the turntable must be 90 degrees to one another. Portable hoists cannot run through a turntable.







With a powered turntable, the hoist is driven onto the turntable which then provides power to turn the table in 90 degree increments. The turntable is operated with buttons on the handset.

#### **Turntable Installation**

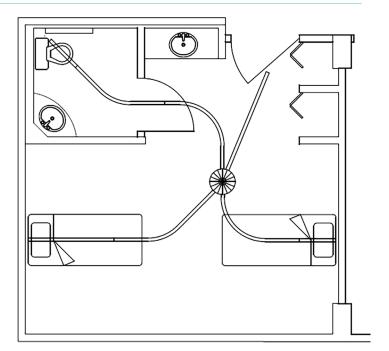
the turntable.

When installing a turntable, the turntable should be fitted first and the track then fitted from the turntable.

Bends that come directly from a turntable must not be cut back past the straight section otherwise the hoist will not pass from the turntable to the track. A minimum of 100mm of straight track must be left on the bend.

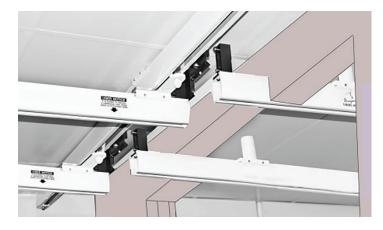
#### **IMPORTANT**

When choosing installation position, ensure that a clear space can be maintained around the turntable, hoist and track.



#### **TRANSITION GATE**

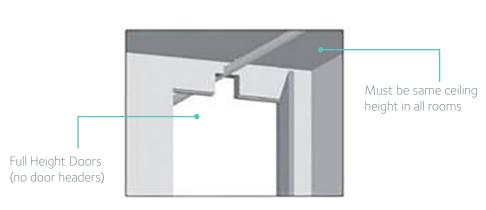
A transition gate is used to transfer from an XY (full room coverage) system to a single track. There must be no obstruction in the doorway (door header). Common examples would be from bedroom to hallway or bedroom to bathroom.



#### **DOOR OPENINGS**

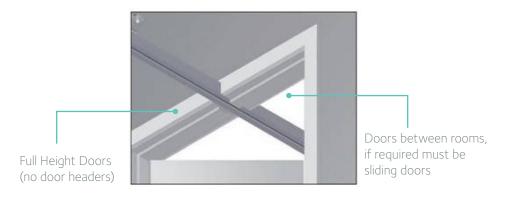
# **Single Track**

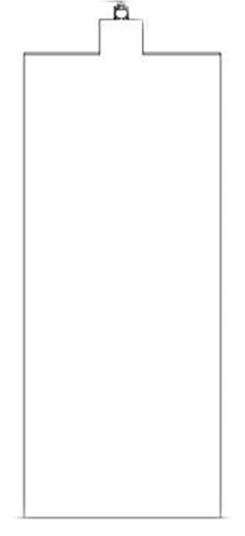
A single piece of tracking can run from room to room.

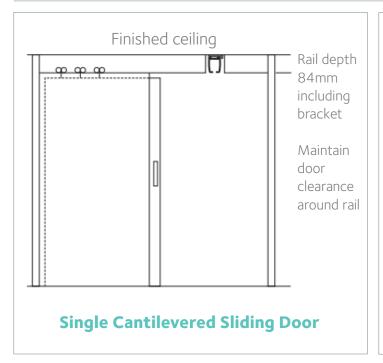


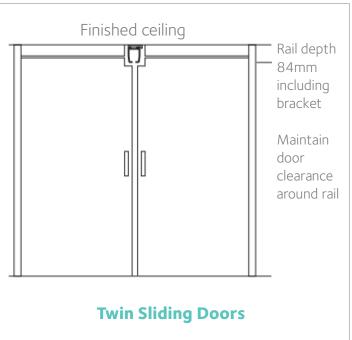
# **Single Track to XY System**

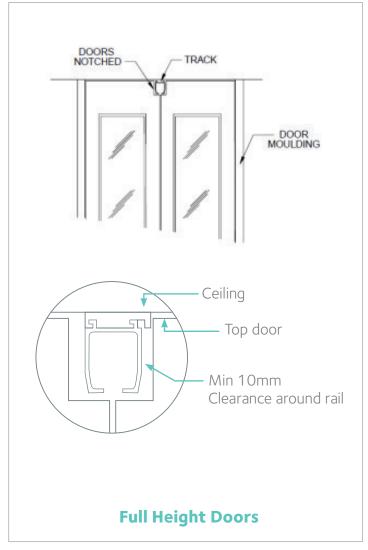
A single track (e.g. in a classroom) can transition onto an XY system (e.g. in a bathroom) via a transition gate.

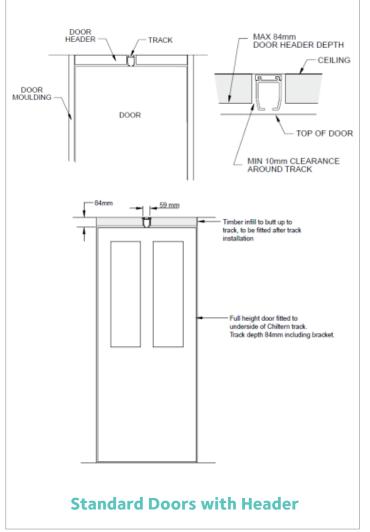








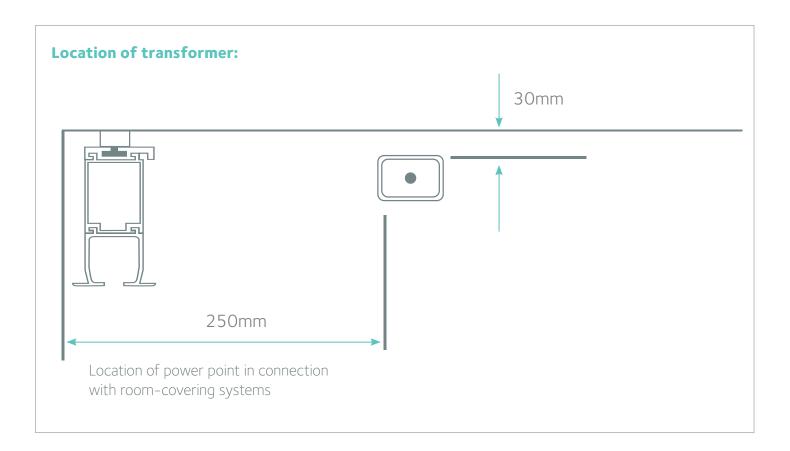




#### **ELECTRICAL**

The only electrical requirement for the ceiling hoist systems, is to have a power point close to the end of the track where the motor can charge.

If the power point is mounted high up on the wall, it removes the risk of running cords or extension leads to the end of the tracking.



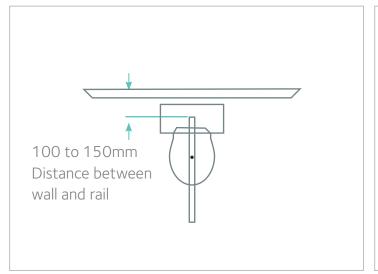
Fixed hoists, whether mounted on a mono rail or an xy room covering system are usually returned to the concealed rail docking station located by the wall mounted charger. Ideally, this location should be readily accessible for care staff and clear of any walkways, doors, or other conflicting fixtures. In bath and shower rooms charge away from dampness and steam if possible.

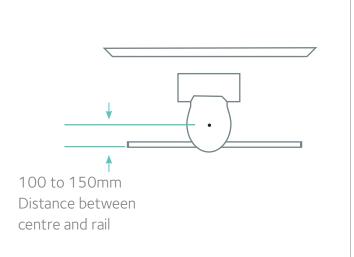
The charger is typically wall mounted and plugged into a nearby electrical outlet. The power outlet should be accessible within the room for service requirements and compliance with standards. Should end of rail charging not be suitable, midtrial docking stations and chargers may be fitted on mono rail installations to suit the desired requirements.

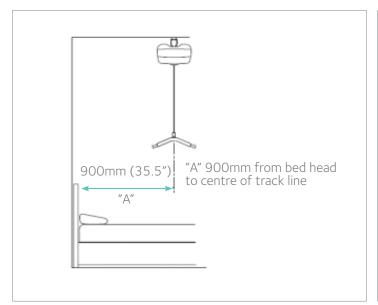
# **PLANNING CONSIDERATIONS**

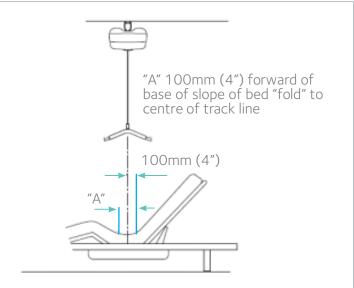
ISSUE	DETAIL	PERSON RESPONSIBLE	RESOLUTION			
USER / FUNCTIONS						
Primary Users	Lifting/ transfers walking	Physios/ OT/ WHS	SugarGlider Consultant			
SWL of System	150 - 450 kg	Physios/ OT	SugarGlider Consultant			
Areas of Use	Classroom, Bathroom, Pool, Room to Room	Physios/ OT/ Principla	SugarGlider Consultant			
Safe Working Area	Maneuverability, Correct manual handling posture	Physios/ OT/ Carers				
		DESIGN				
Design Expectation	Layout Appearance	Principal/ Architect	SugarGlider Consultant			
Design Obstructions	Light, Fan, Smoke Alarm, Sprinklers	Builder/ Architect	SugarGlider Consultant Builder/Architect			
Budget		Principal/ Finance				
Electrical	GPO for charging	Architect				
BUILDING CONSTRUCTION / INSTALLATION						
Asbestos	Risk to Environment/ People	Builder	3rd Party Removal			
Installation Method	Ceiling mount, Wall mount	Builder				
Obstruction	Shower curtains, Doorways, Walls, Ceiling Heights, Windows	Builder				
Electrical	Power Supply	Builder				

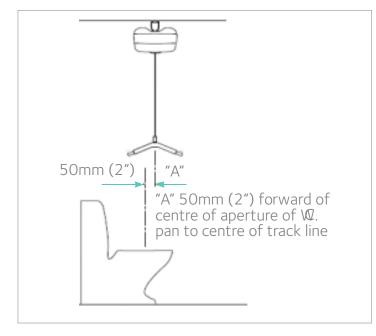
#### **PLANNING CONSIDERATIONS**

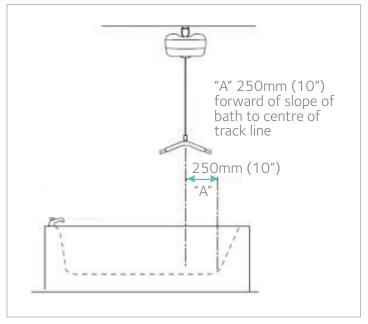






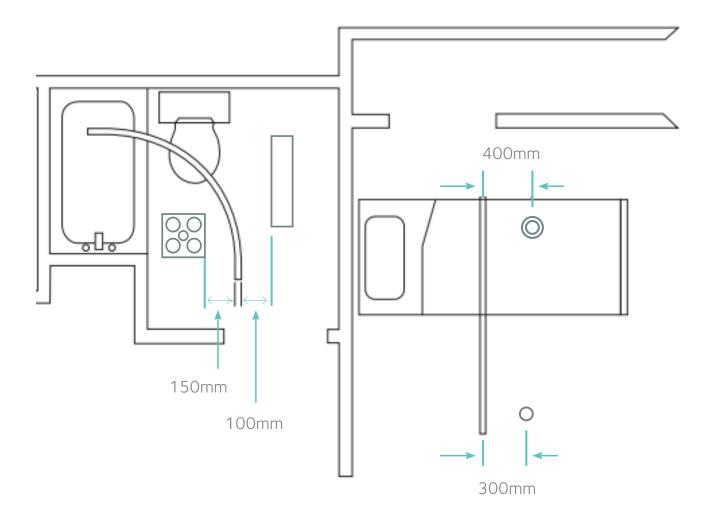






#### **OBSTRUCTION CONSIDERATIONS**

- Recommended minimum horizontal clearance from smoke detectors 300mm
- Recommended minimum horizontal clearance from fire sprinklers – 400mm (Important! Check your relevant local authority).
- Recommended minimum horizontal clearance of hoisting system to light 100mm, ceiling fans 200mm, heat lamps 150mm, curtain rails 200mm.







Heat lamps



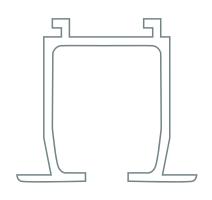


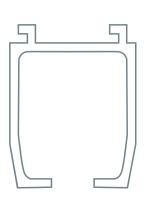
Lignts

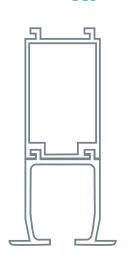
# **PLANNING CONSIDERATIONS**

RAIL TYPE		RECOMMEN	NDED SPANN	ING BETWEE	N SUPPORT	POINTS	
Meter	0.8	1.2	1.5	2.5	3.2	4.2	5.0
MAX WEIGH	T 200KG						
A		x					
В			X				
С							X
MAX WEIGH	T 300KG						
A		X					
В			X				
С						x	
MAX WEIGH	T 400KG						
A	X						
В	X						
С					x		

# Rail A Profile (Invisi-Track): Rail B Profile (Standard): Rail C Profile (Piggyback):







# Ceiling Hoists



# **SugarGlider Nomad Portable Ceiling Hoist**

The Nomad is a flexible and user friendly ceiling hoist. It is intuitive and easy to operate. The integrated handles make it truly portable. The curved shape is designed to afford user's head ample space while the integrated 4-point yoke gives ultimate safety, comfort and dignity during the lift and transfer. The user will feel, safe and stable without being squeezed.

The combination with a compatible sling ensures that the user will achieve a correct and comfortable sitting position. If rail installations through door openings are not possible, the Nomad can climb from room to room, i.e. from one rail system to another. The Nomad has an emergency lowering and an emergency stop, as well as a soft stop-start function to prevent abrupt movements.

- Lift speed 35 mm/s with soft start/stop function
- High battery performance (70+ lifts per charge)
- Easy overnight charge system
- · Built in electronic lift counter
- · Splash proof casing
- Lifting Height 2m

Specifications:	
Product Code	7324
Length	520 mm
Width	198 mm
Height	330 mm
Lift Range (Length of Lift Strap)	1980 mm
Lifter Weight	6.8 kg
SWL	230 kg

Also Available:	
Product Code	7325
Length	520 mm
Width	198 mm
Height	330 mm
Lift Range (Length of Lift Strap)	1980 mm
Lifter Weight	6.8 kg
SWL	255 kg





#### **SugarGlider Monarch Portable Ceiling Hoist**

The Monarch Portable Ceiling Hoist is one of the lightest on the market weighing only 5kg, whilst lifting the industry standard of 200kg. Ideal for occasional or multiple room use, the product is robust and charges with an AC Charger.

- · Weight: 5KG
- Lifts per Charge: 30 to 40 cycles
- Track Options: H system, Turntable, Gate, Curves, Room-to-Room, Freestanding Gantry: 2m, 3m, 4.5m, 6m, 8m
- · Track Compatibility: Compatible with all Monarch tracks

#### **SugarGlider Monarch Fixed Ceiling Hoist**

The Monarch Fixed Ceiling Hoist is a complementary product to other products for individuals with mobility challenges. It is designed for use by caregivers and health professionals to lift and transfer a person in homecare, assisted-living or hospital environment.

- · Unique Spreader Bar with Secure Sling Mechanism
- Fast lifts up to 30% more quickly than other models
- Low lift clearance slim profile means more room to manoeuvre patient
- Li-ion battery recharges twice as fast as average competitor products
- · Ultra lightweight Weighing 8kg 35% lighter than competitors
- 200kg safe working load
- · Ideal for Nursing Homes, Hospitals or Domestic Use



Specifications:	
Product Code	272358000
Length	550 mm
Width	140 mm
Lifts per Charge	30 - 40 Cycles
Total Weight	4.8 kg
SWL	200 kg



Specifications:	
Product Code	272358001
Length	640 mm
Width	300 mm
Lifts per Charge	30 - 40 Cycles
Total Weight	7.58 kg
SWL	200 kg









#### **SugarGlider Luna Portable Ceiling Hoist**

When combined with the E-track, the Luna powered ceiling hoist creates a versatile overhead lifting solution suitable for any room or lifting need.

The Luna overhead tracking hoist is unique in making a track hoist into a flexible technical aid. Luna can be mounted in different positions on the track and may be changed at will to suit varying care needs. The Luna track unit can also be adapted to suit existing tracks so that total replacement is not necessary.

- Soft start and stop motor control
- Electrical emergency lowering
- Electrical emergency stop
- Low battery indicator (visual LED)
- · Charging indicators
- Power on indicators
- Overload protection
- · Emergency brake system

# **SugarGlider Luna Fixed Ceiling Hoist**

The Luna overhead tracking hoist is unique in making a track hoist into a flexible technical aid. Luna can be mounted in different positions on the track and may be changed at will to suit varying care needs.

The Luna track unit can also be adapted to suit existing tracks so that total replacement is not necessary. Luna can be described as a fixed and portable ceiling hoist in one and the same unit, a truly unique feature. Changing Luna from fixed to portable mode, and vice versa, can be done within seconds by simply detaching and reattaching the unit to the track. No tools are needed.

This unique two-in-one feature makes Luna the preferred ceiling hoist for care facilities as it provides a flexibility of choice, allowing the final decision of either fixed or portable unit to be made at a later point.

- Soft start and stop motor control
- Electrical emergency lowering
- Electrical emergency stop
- Low battery indicator (visual LED)
- Charging indicators
- Power on indicators
- Overload protection
- · Emergency brake system

Specifications:	
Product Code	272333996
Length	320 mm
Width	130 mm
Length of Lifting Strap	2200 mm
Total Weight	6.7 kg
SWL	275 kg

Specifications:	
Product Code	272333997
Length	320 mm
Width	130 mm
Length of Lifting Strap	2200 mm
Total Weight	6.7 kg
SWL	200 kg







#### **SugarGlider Transport Trolley**

The SugarGlider Transport Trolley makes it a simple task to transport the portable ceiling hoist unit, reach stick and slings from one location to another.

- Two large shelves
- Features a unique column to store reach stick
- Four high quality swivel castors for ease of manoeuvrability
- Robust, heavy duty design favoured by many aged care facilities

#### Flexi-Link Arm Reacher

Efficient, safe and simple to operate. Our patented Flexi-Link connection system is todays most advanced device for connecting the portable lift to the trolley. Its removable wand allows carers to move around freely as there are no handles in place and travel of the hoist is not impeded by lights, fans or doors.

#### Flexi-Link Arm Reacher

Efficient, safe and simple to operate. Our patented Flexi-Link connection system is todays most advanced device for connecting the portable lift to the track trolley. Its removable wand allows carers to move around freely as there are no handles in place and travel of the hoist is not impeded by lights, fans or doors.

# Specifications:

<b>Product Code</b>	7426
Width	520 mm
Depth	198 mm
Height	330 mm

Specifications:		
<b>Product Code</b>	7422FL	
Length	600 mm	

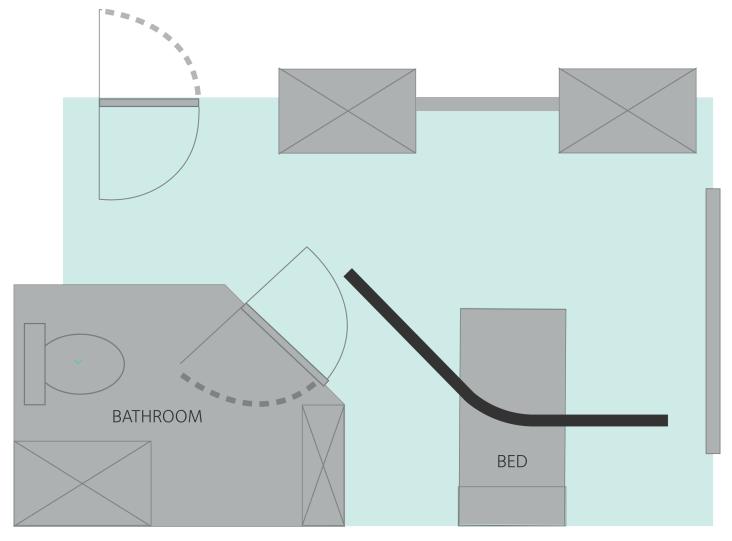
Specifications:	
<b>Product Code</b>	7423FL
Length	900 mm

#### SINGLE TRACK CEILING HOIST SYSTEM

When it comes to lifting a disabled person, a system that provides secerity, safety and comfort is required. Not just for those being lifted, but those doing the lifting. Part of our extensive product range focuses on patient handling aids for securely, safely and comfortably lifting and moving disabled people.

- · Simple but comprehensive system, characterised by flexibility
- Ergonomically ideal alternative, eliminating manual lifting and allows caregiver to always choose the optimal working stance
- · Requires minimum floor space and is easy to manoevre

- Provides the possibility of both low and very high lifting
- Complete, ingeniously simple and safe rail system for permanent installation on the ceiling and/ or on the walls
- Each system is individually designed in close cooperation with the customer allowing for adaption to specific conditions
- Optional choice of ceiling lift unit and the appropriate lifting accessories
- Unlimited possibilities for design and adaption of the perfect stationary lifting solutions for all settings, rooms and lifting needs.



<sup>\*</sup> Diagram shows Blue Care Standard Room for Ceiling Track System

Below are a few of the many different possibilities of design and adaption for the perfect lifting solution. These ceilings hoists have been installed in different settings and rooms such as bathrooms and bedrooms.

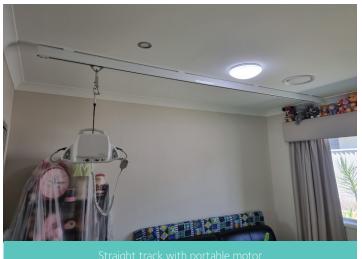












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# SEE SOMETHING YOU LIKE? LET'S HAVE A CHAT!

Book your consultancy today with one of our friendly team members. See below information for ways you can get in contact....















**P.** 1800 267 267 | **F.** 07 3899 8825

E. hello@activemedicalsupplies.com.au

www.activemedicalsupplies.com.au