

SAFE PATIENT HANDLING & MOBILITY

DESIGN AND PLANNING GUIDE

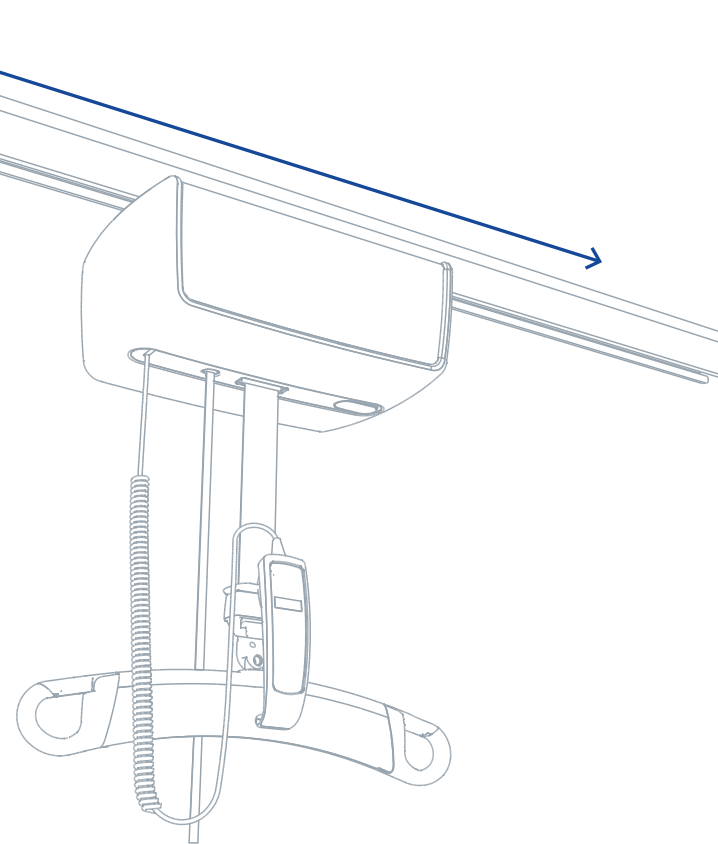


CEILING-MOUNTED LIFT SYSTEM CONFIGURATIONS OPTIONS

Ceiling lift systems are available with two main installation options:

1. FIXED RAIL

A fixed rail installation can be used when you want to move a patient between two fixed points, for example, from a bed to a toilet. The rail can be straight or curved, and be installed with unobtrusive support legs, which are attached to a nearby wall. Note that a curved rail always requires a ceiling installation. In many care settings, a fixed rail can offer a simple, efficient and economic solution.



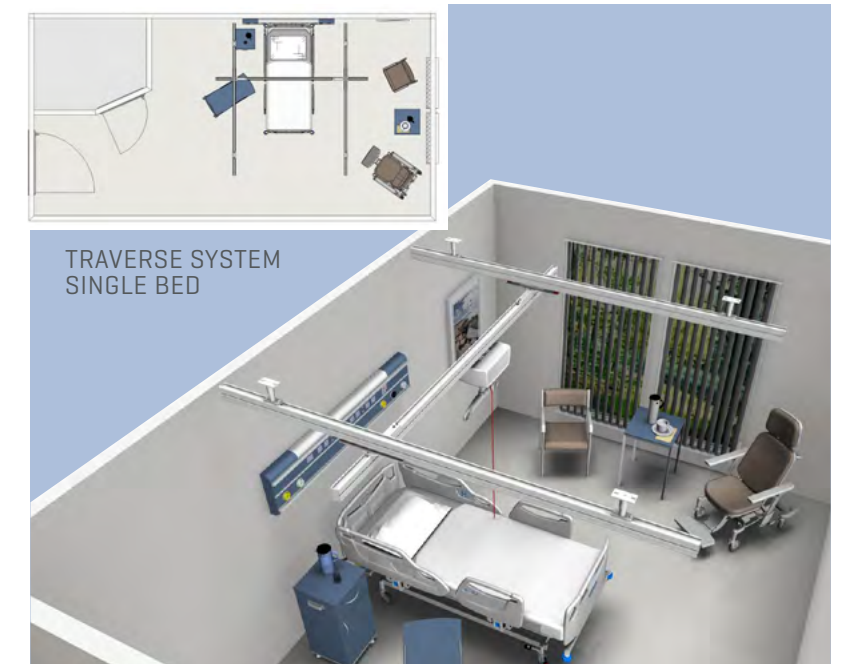
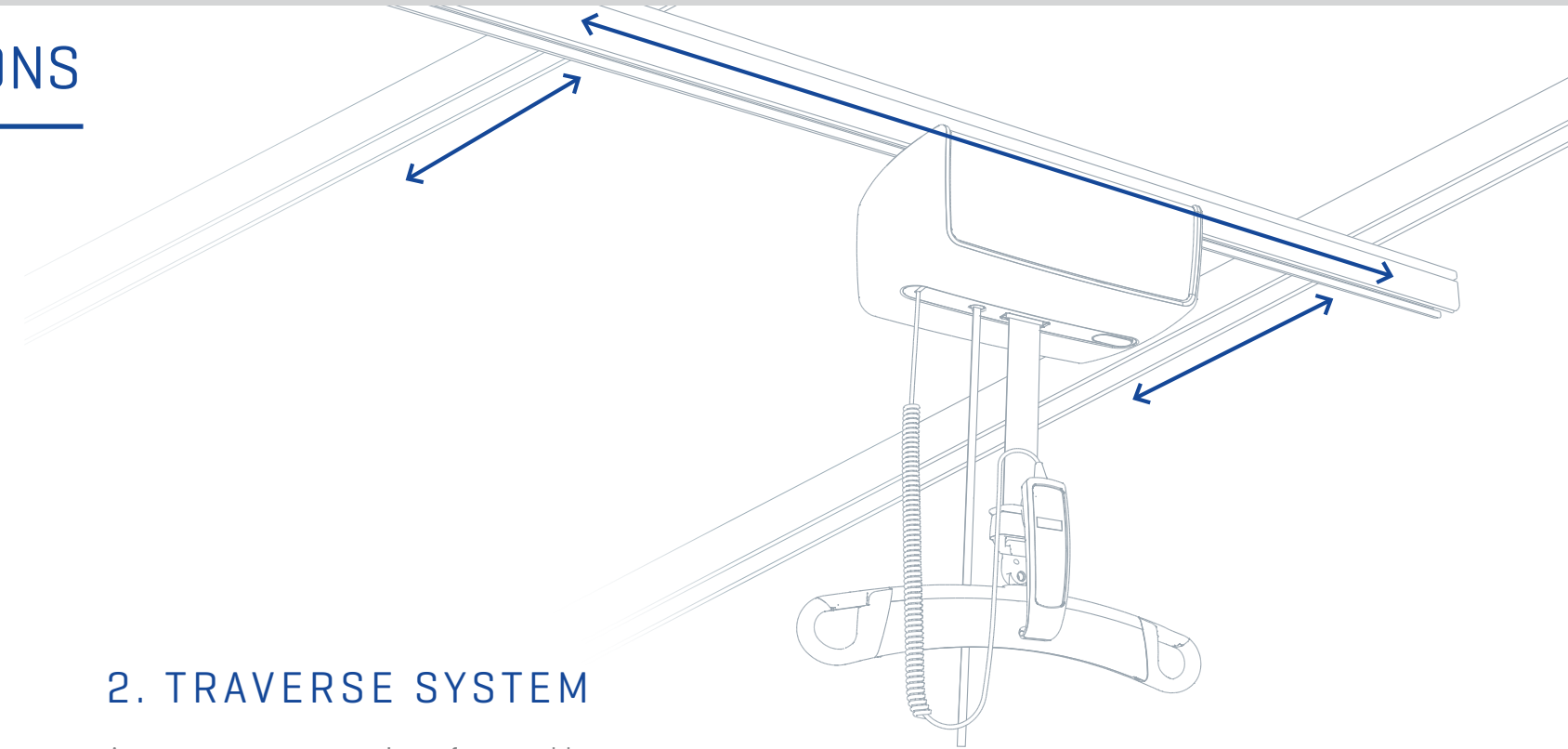
BASIC SINGLE RAIL

2. TRAVERSE SYSTEM

A traverse system consists of a movable rail mounted on two fixed rails. It is often a versatile solution, as it provides greater freedom for lifting and movement versus a fixed rail system.

- Provides complete full room coverage.
- Provides flexible placement around ceiling fixtures/lighting.
- Offers a variety of docking locations when not in use.

It is possible to connect the traverse rails with switches, enabling transfers between different rooms. Furthermore, the lift automatically centers itself when lifting, making the traverse system easy to use and offering greater flexibility for patient care.



TRAVERSE SYSTEM
SINGLE BED

CEILING-MOUNTED LIFT SYSTEM CONFIGURATIONS OPTIONS

LONG-TERM RECOVERY

Below are examples of ceiling-mounted traverse rail systems providing complete room coverage in a resident room and bathroom. Option A provides full coverage, but requires the bathroom walls to be lowered 20 - 40 cm / 8 - 16". This solution would complement a new construction project, and is an alternative to the use of switches or a turntable as shown in other images.

OPTION A



TRAVERSE SYSTEM WITH RESIDENT ACCESS INTO BATHROOM



OPTION B



TRAVERSE SYSTEM WITH RESIDENT ACCESS INTO BATHROOM WITH TURNTABLE



MULTI-BAY SYSTEMS



TRAVERSE RAIL SYSTEM

CEILING-MOUNTED LIFT SYSTEM CONFIGURATIONS OPTIONS

BARIATRIC CARE

ULTRATWIN SYSTEM

Available in straight rail or traverse models, the **UltraTwin** system consists of two **Likorall** motors which, together, offer a lifting capacity of up to 500 kg / 1,100 lbs*. The addition of the **UltraTwist** accessory offers the option to adjust a patient's position during and after the transfer.

Tilt and Space

Dual motors can help you tilt patients and allow for more space around them. This offers options to easily tilt and angle your patient's position while they are suspended using hands-free repositioning. For bariatric patients, this solution can increase efficiency and reduce risks¹ associated with a variety of patient mobility tasks including repositioning, turning, limb lifting, seated transfers and more.

DUAL SINGLE RAIL **ULTRATWIN** SYSTEM



TRAVERSE RAIL **ULTRATWIN** SYSTEM

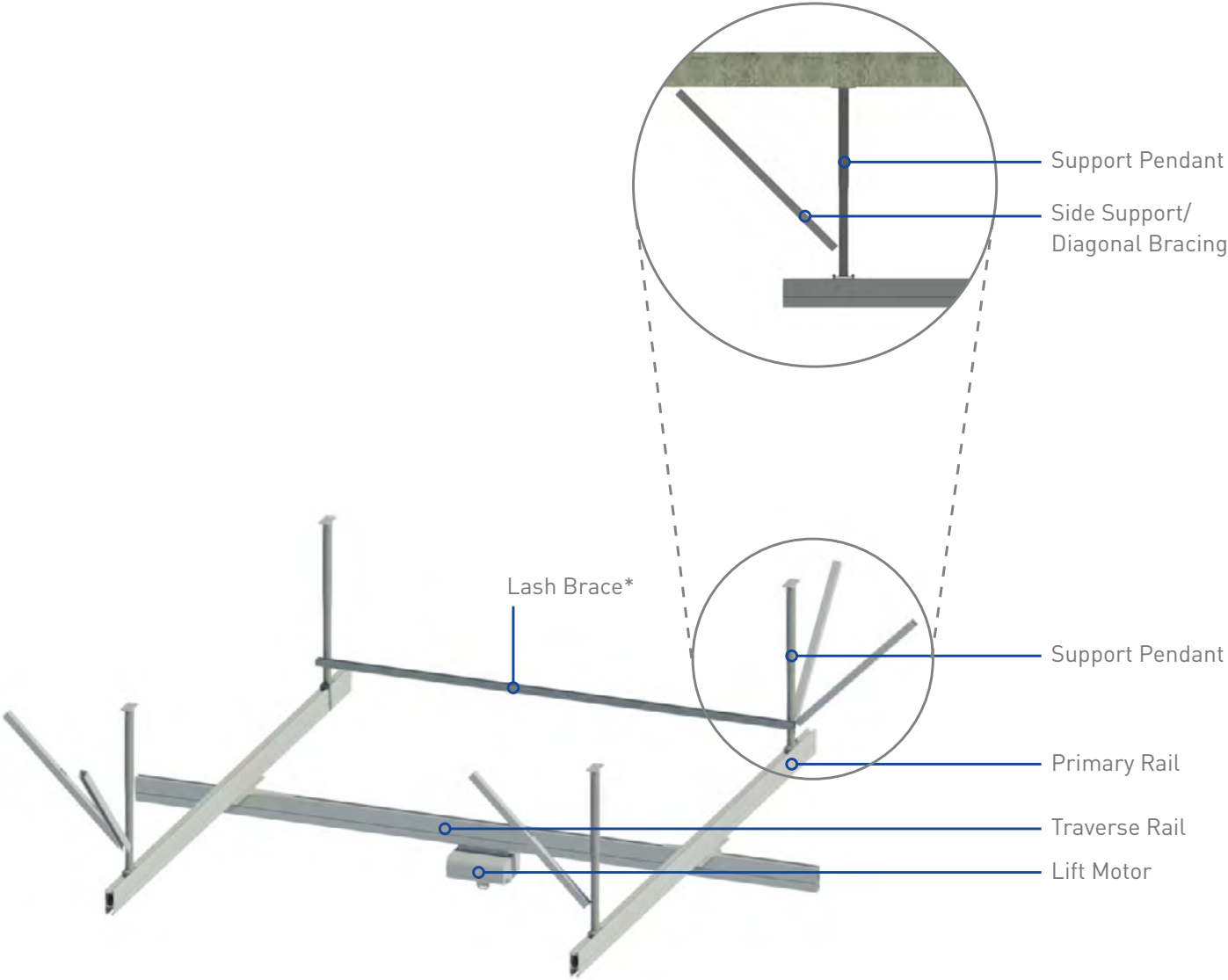


*Please refer to the product User Manual/s for maximum safe working load references.

OVERHEAD SYSTEM COMPONENTS

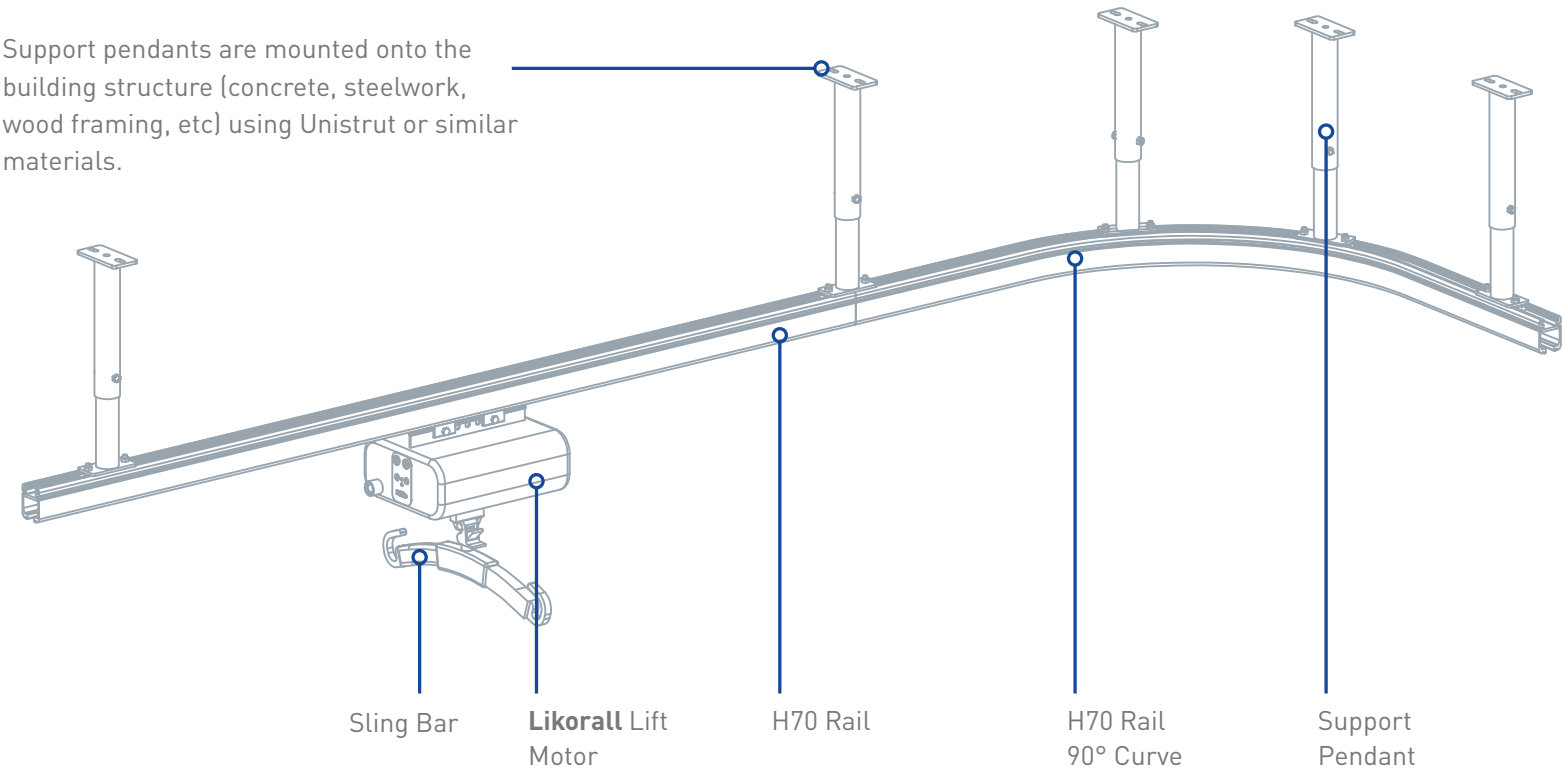
ASSEMBLY EXAMPLES

Acute Care Traverse System Assembly



*Optional - to be provided by the installer

Acute Care Single Rail “J” Track System Assembly



OVERHEAD SYSTEM COMPONENTS

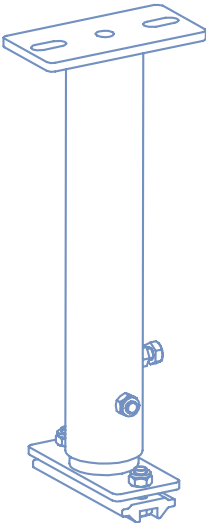
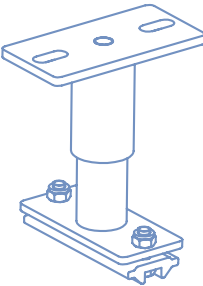
PENDANTS AND BRACKETS

Pendants

Pendants are the most common type of support used. They are adjustable in height and extend from the fixed rails to the building structure (concrete/steelwork) above ceiling.

Pendant (adjustable):
90 – 310 mm /
3.5" – 12.25"

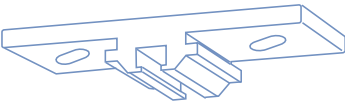
300 – 2100 mm /
12" – 82.5"



Ceiling Bracket/Threaded Rod

Ceiling brackets are developed for ceilings with very few or no obstacles. Threaded rods are used mostly for attachments to wooden beams.

Concrete applications



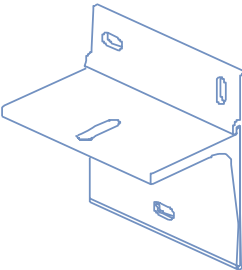
Concrete or wood applications



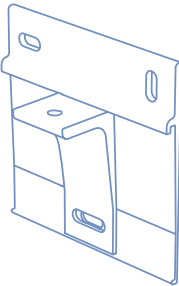
Wall Bracket

Wall brackets are commonly used for new construction and more extensive renovations. These provide for a more aesthetically-pleasing look to the finished room.

Wall Bracket – Parallel:*
Max Load 272 kg / 600 lbs



Wall Bracket – Turntable:*
Max Load 272 kg / 600 lbs



*Note: Wall Brackets installations require close coordination with construction/remodel efforts as reinforcement within building walls may be required.

LIFT SYSTEM ATTACHMENTS

Upright Supports

Installation with upright supports is ideal when neither the ceiling nor the walls can support the weight of a rail system or when the wall material is unknown. Upright support installation results in minimal changes to the room, and can be easily removed.



Slimline Upright Support: Max Load 272 kg / 600 lbs

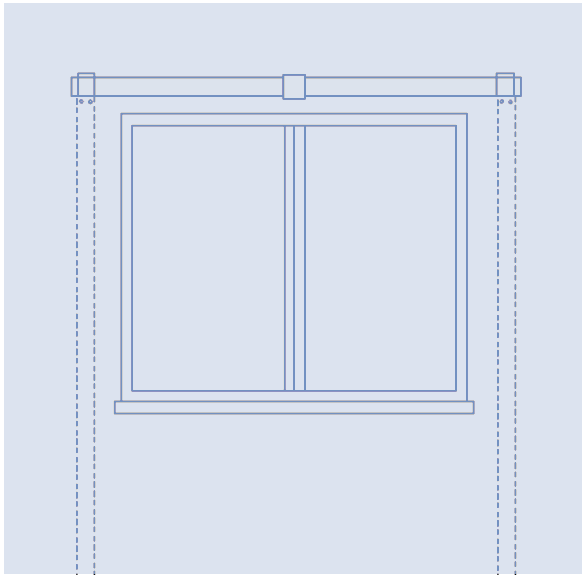


Standard Upright Support: Max Load 363 kg / 800 lbs



Steel Upright Support: Max Load 500 kg / 1100 lbs

Superstructure over window

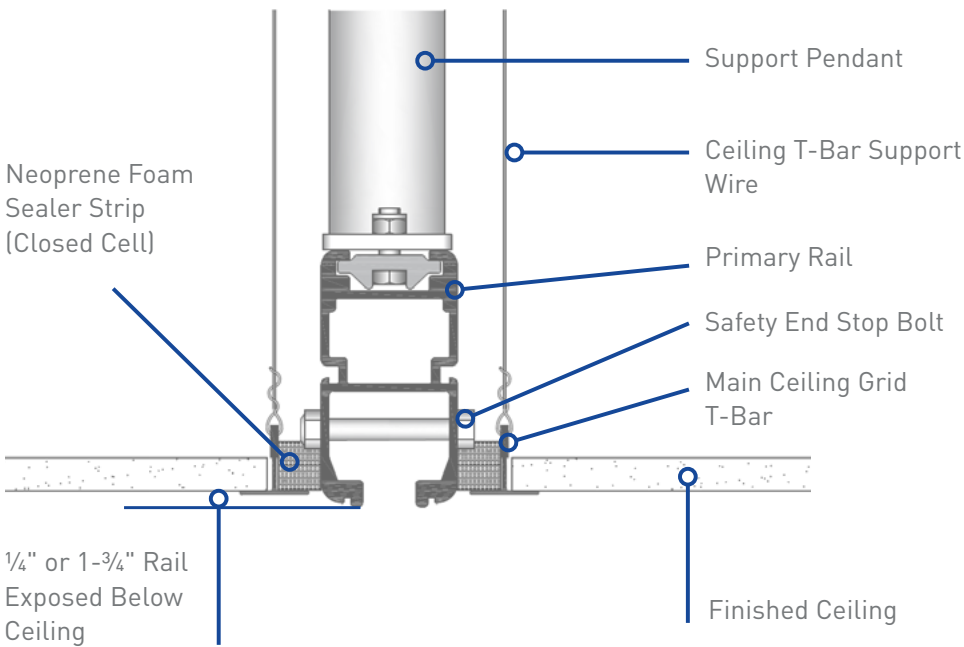
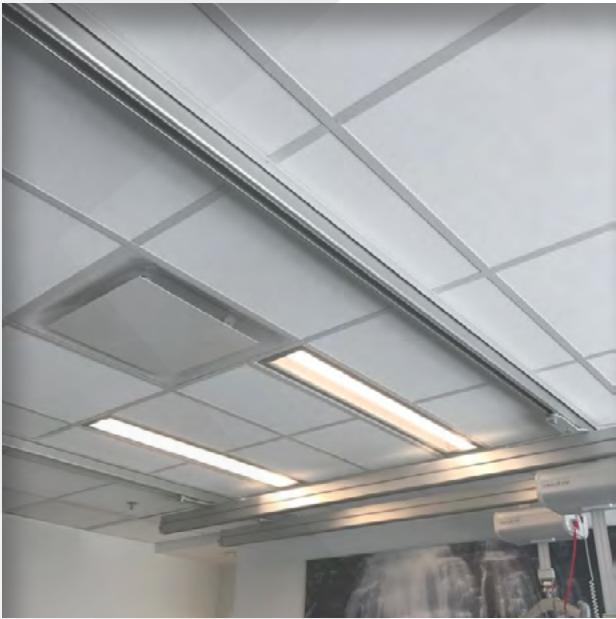


Note: Upright Supports are commonly used for existing buildings and renovations and offer simple and quick installation without requiring work above the ceiling space(s).

OVERHEAD SYSTEM COMPONENTS

RECESSED PRIMARY RAILS APPLICATION

1/4" or 1-3/4" rail exposed below finished ceiling

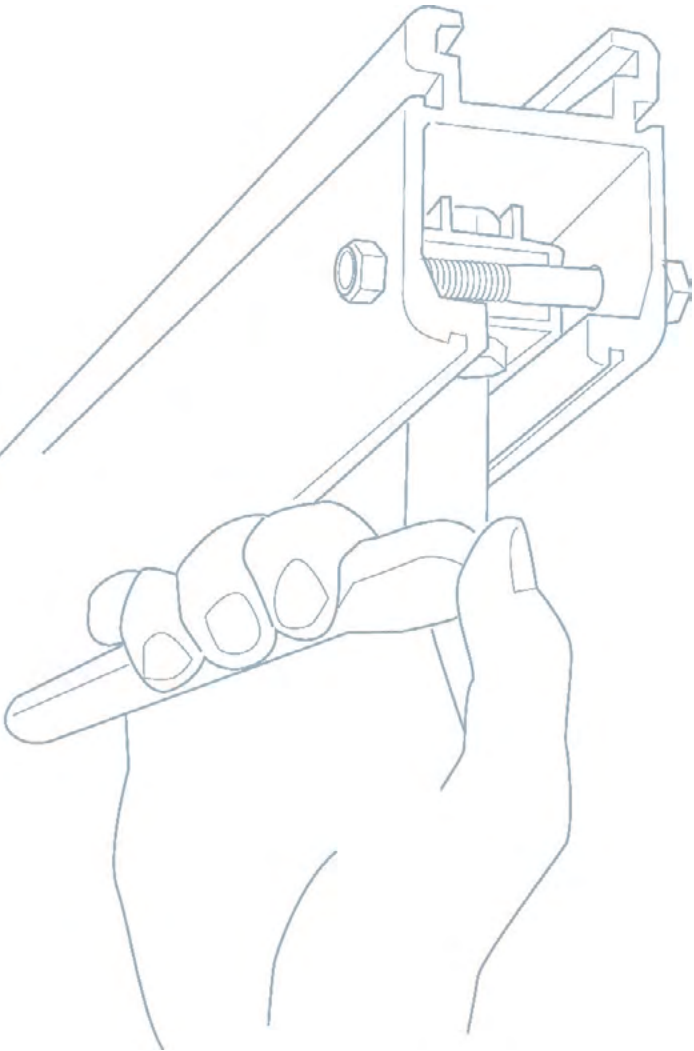


NOTE: The 1-3/4" Exposed Option allows for serviceability of the rail and motor carriages without requiring removal of any ceiling components. For the 1/4" Exposed/Embedded Rail Options, a ceiling access panel is recommended to enable inspections, and for insertion and replacement of carriers and carriages.

IMPORTANT: It is not recommended to adhere or attach the ceiling structure directly to the Primary Rail. During use the rail will deflect due to the lifting load. If the ceiling is adhered to the Primary Rail, then this normal deflection and may cause damage to the finished ceiling.

OVERHEAD SYSTEM COMPONENTS

LIFT SYSTEM ATTACHMENTS



End stop

The end stop is hidden within the rail and is designed to stop the motion of the lift motor. It can be adjusted to limit the range of the lifting area. An additional safety feature of the end stop is the safety bolt, which prevents the motor from accidental detachment from the rail system.

Curtain supporting solutions

We provide a variety of curtain supporting solutions that work in conjunction with overhead lift systems, providing enhanced privacy.

Solutions with switches

TRAVERSE SWITCH

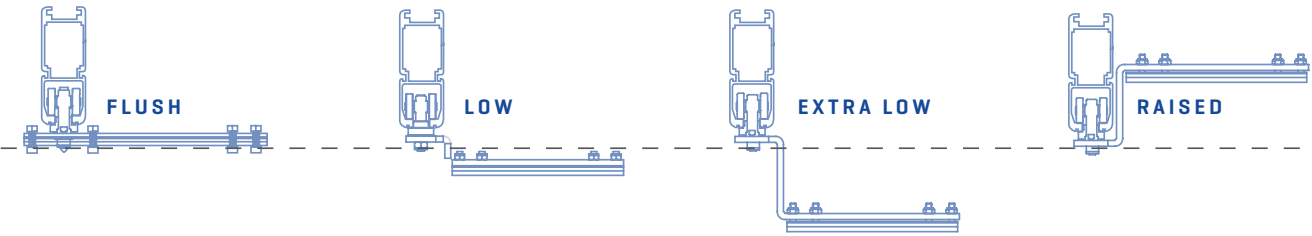
Offers the ability to go from a fixed rail to a traverse system, for example, between different rooms.

TURNTABLE SWITCH

With a turntable switch, users have the ability to select tracks in four different directions.

Traverse rail carriers

Baxter offers a selection of traverse rail carriers for a variety of configurations. The distance between the fixed rails (which are the primary rails in a traverse system) determines the selected width of the traverse rail carriers. Selecting the correct width of the traverse rail carriers will ensure smooth and easy movement of the traverse rail.



Traverse rail carriers are available for both raised and lowered secondary rails, helping to avoid other objects in the ceiling, such as sprinklers or lamps and offering a more aesthetic solution.

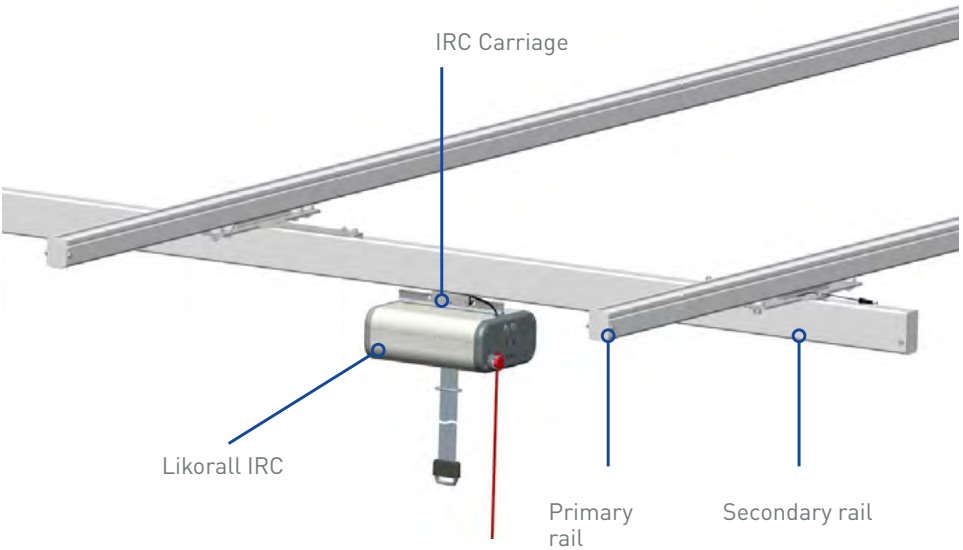
OVERHEAD SYSTEM COMPONENTS

CHARGING

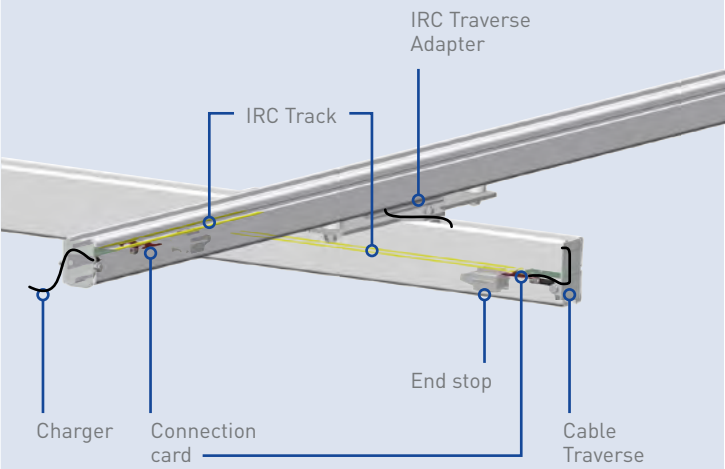
In-rail charging [IRC]*

Baxter in-rail charging means that the lift unit is constantly charged along the complete rail system and is always ready for use.

It can be fitted to all standard rail systems, as well as new or previously installed rails.



CHARGING DETAIL



*Requires electrical power source near ceiling line. Charger cord length is 6 feet. In-rail charging only available in 250kg motor.

WALL-MOUNTED CHARGING STATION*

With a wall-mounted charging station, the lift motor should be positioned above the charging panel, placing the hand control into the dedicated charging point. This panel is also equipped with hooks for hanging the slingbar and sling, and is available as a separate modular product.



MULTISTATION - CHARGING ON THE RAIL (LIKORALL ONLY)

The **MultiStation** offers on-rail charging and allows the caregiver to operate rail switches and turntables via the motor's hand control. Charging takes place at a pre-selected point along the rail.



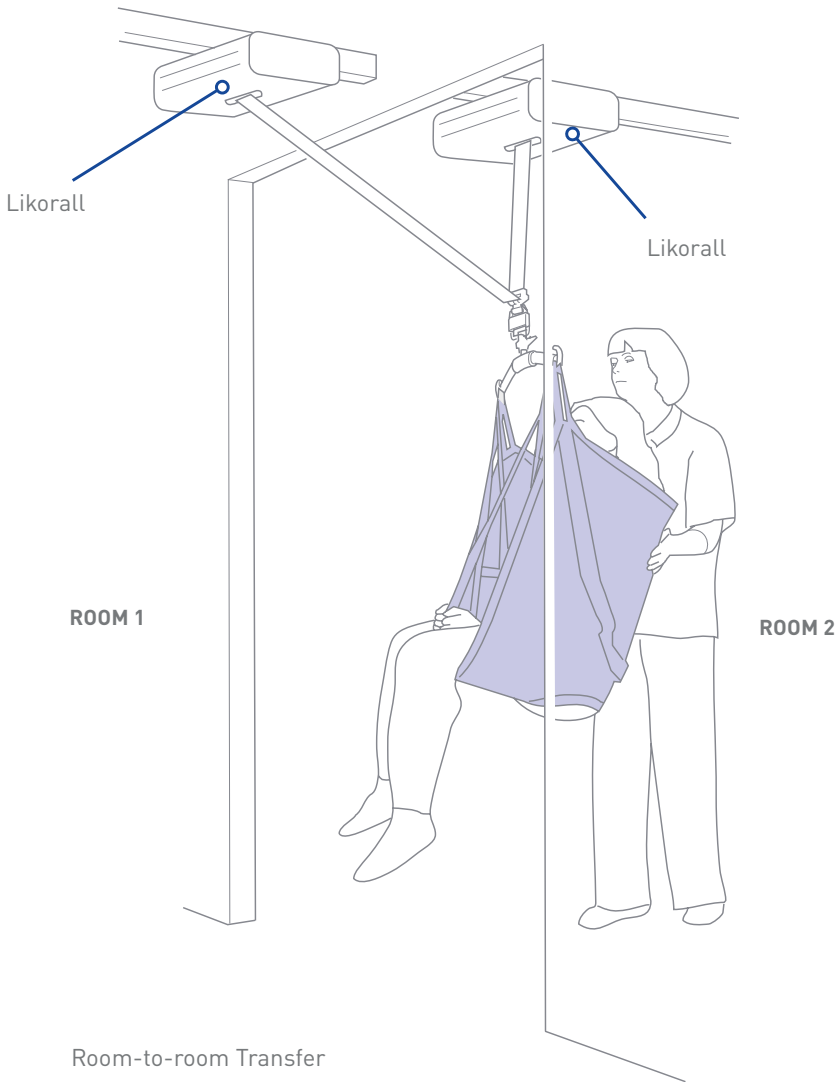
OVERHEAD SYSTEM COMPONENTS

LIFT MOTOR OPTIONS

Likorall

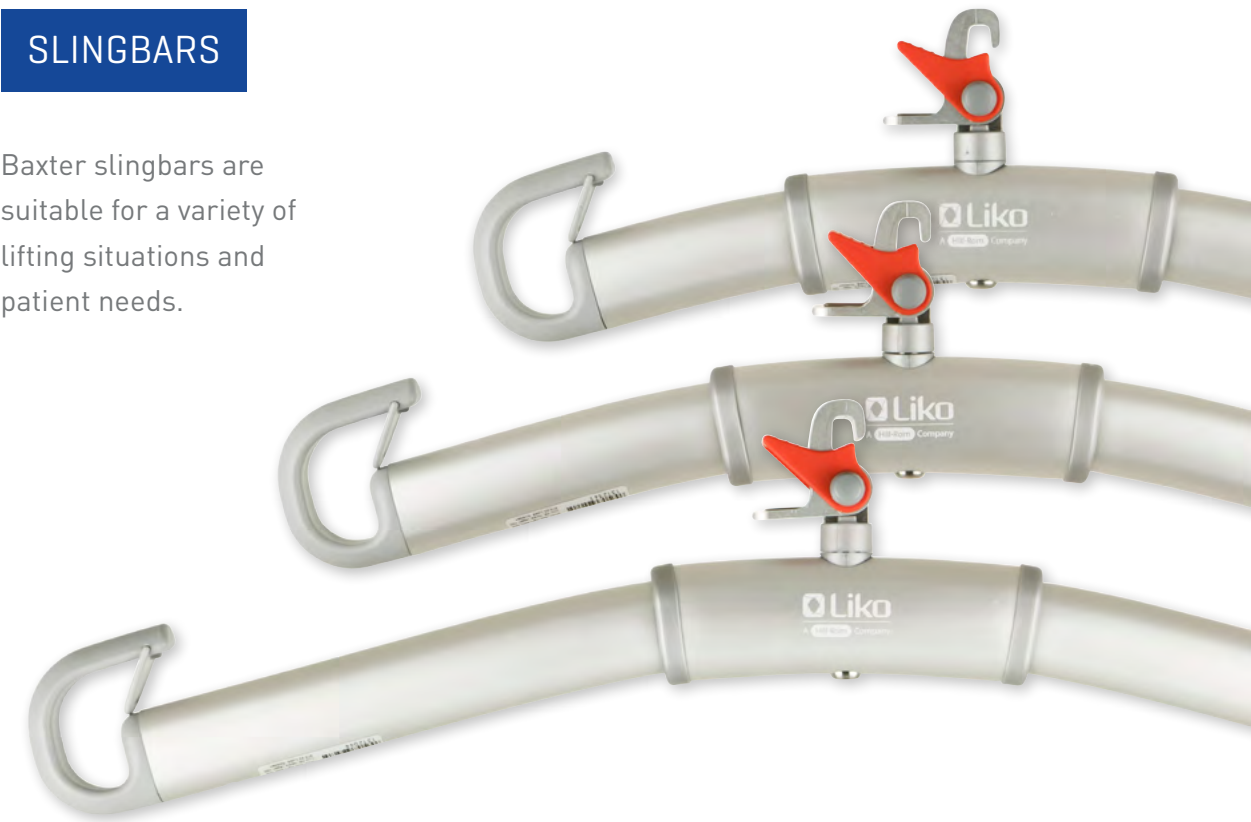
Likorall is a family of overhead lifting motors with a lifting capacity from 200 – 250 kg / 440 – 550 lbs*. The combination of unique technology, operational reliability and ease-of-maintenance², together with the wide range of accessories, makes it possible for **Likorall** to accommodate a wide range of lifting situations, including room-to-room. All models are equipped with a patented safety drum, electrical emergency lowering and stop, lift strap with 10-fold safety margin and safety squeeze protection.

*Please refer to the product User Manual/s for maximum safe working load references.



SLINGBARS

Baxter slingbars are suitable for a variety of lifting situations and patient needs.



Universal slingbar 350, 450 and 600



Likorall 200
Basic model



Likorall 242S/ES and Likorall 242S/ES R2R
Optional mechanical emergency lowering



Likorall 250ES and 250S IRC
Optional in-rail charging



Cross slingbar



Universal slingbar 670 twin

For more information, contact your Baxter Sales Representative,
or email us at hrc_overheadquotes@baxter.com

Baxter range of lifts and accessories are intended to be used for the lifting and transferring of patients in a variety of care settings. Baxter slings and accessories are intended to be used in combination with Baxter lifts for a range of lifting and transferring situations in a variety of care settings.

Class 1

Manufacturer: Liko AB, Nedre vägen 100, 975 92 Luleå, Sweden

These products are regulated health care products which, where required by applicable regulations, bear a CE mark. Baxter recommends you carefully read the detailed instructions for safe and proper use included in the documentation accompanying medical devices. The personnel of healthcare establishments are responsible for the proper use and maintenance of these medical devices.

Baxter reserves the right to make changes without notice in design, specifications and models. The only warranty Baxter makes is the express written warranty extended on the sale or rental of its products.

References

1. Baxter data on file 2024 - Weinel paper (efficiency and risk) - "Weinel. Rehabilitation Nursing 2008.pdf"
2. Baxter data on file 2024 - Likorall Service Manual - "3EN200405 Rev 21 Servicemanual Likorall 200 242 243 250 ES.pdf"

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