

## Borrिंगia XXL Lift

### Short background:

- The product was developed in cooperation with the largest Danish University Hospital.
- Interviews and video observations for Consumer Requirement Specification were carried out in Aug/Sept. 2007
- 3D & 2D construction was terminated in December 2007
- Tooling & moulds were finalized in February
- Testing at TÜV according to European standards has been finalized
- Industrial production is set to start in January 2009

### Resume of Consumer Demands:

- A lifter capable of handling patients weighing up to 325 kg or 715 lbs. According to all doctors interviewed, patients above this weight can be severely damaged if lifted in a sling
- A lifter, which offers not only “Zero effort Driving”, but also “Zero Effort Handling”: The issue from the interviews/observation is that positioning or lifting bariatric patients into and out of beds, operating tables, wheelchairs etc. is next to impossible in traditional slings, because the patient is suspended in a semi-lying/semi-sitting position.
- A lifter with a sling system which eliminates shearing, especially to the legs (The skin of bariatric patients is already stretched, no point in stretching it any further!)
- A lifter which has a very high lifting range combined with a very compact base
- A lifter with a built-in scale in order to monitor sudden changes in weight (dehydration)
- A lifter which is simple to use and which can be driven from behind the lifter as well as walking on the side of the lifter (Little space from the side of the bed to the wall in many hospitals → The idea is to limit the space required to the actual length of the lifter as opposed to the combined length of the lifter and the operator)

Below, please find some pictures of the XXL Lift

The drive system – CompassDrive® - is placed directly under the foot point of the mast. With the pressure regulation feature of the CompassDrive, what happens when the system is fired up, is that pressure against the floor is increased until approx. 80% of the combined weight of the lifter (200 kg) and the patient (up to 325 kg) is carried by the drive wheel. This is fantastic on a lifter: You get a great pivot point, which means that turning the lifter on the spot requires **no effort**. (Normally 80-85% of the patient weight is on the front castors making it virtually impossible to manually turn a bariatric lifter on the spot.)

As you can see from the two next pictures, the motorized positioning system, PowerTilt, allows us to place a patient in a horizontal position for lifting into and out of flat surfaces and a sitting position, which combined with the vertical lifting movement allows us to place a bariatric patient in a chair with his buttocks close to the backrest. **No** other lifter in the World has these features.

The 2 MMIs are placed in such a way that you can equally well drive the XXL Lift from the sides and walking behind it. This means that we can cut off 1,5 meters of the space required to operate it. Also, the MMIs have been kept “nurse proof” and everybody intuitively understands the layout.

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