

## Probst TSZ-uni, FTZ-uni15 & FTZ-BB Kerb Lifters

### Safety Information and Operating Instructions

#### 1. General

- The TSZ-uni is suitable for the lifting of steps, kerbs and L-stones, lifting by machine using the lifting hook.
- The FTZ-uni15 is suitable for lifting prefabricated concrete products, natural stone products by means of machine using the lifting hook.
- The FTZ-BB is suitable for lifting concrete, pre-fabricated concrete wall units, steps, kerb stones and natural stones. The FTZ-BB is a special version for Kassel kerb stones but also suitable for other products.
- The carrying capacity and the gripping range of the lifters and the lifting equipment must never be exceeded. (See table below).
- **Marwood Group Ltd recommends the use of a 1.5mtr x 3.15t single leg chain sling for attaching the grab to the lifting apparatus.**

#### 2. Safety Instructions

- Only qualified authorised personnel should be allowed to operate this equipment.
- A risk assessment must be carried out before using the kerb lifters.
- Appropriate PPE (safety gloves and hard hat) must be used as per the risk assessment carried out.
- All body parts to be kept well clear when using these kerb lifters.
- The use of the device is only permitted in proximity to the ground. Do not lift above peoples head.
- Only rectangular goods may be lifted by the kerb lifters.
- Do not lift products off-centre.
- Do not use the device to jerk seized products.
- Take care when handling wet, dirty products.
- Avoid quick or jerky movements with the device e.g. caused by driving fast over uneven ground as the load may be dropped.
- Take if use below 37.5°F or 3°C as load may fall in freezing conditions.

#### 3. Operation

##### TSZ-uni

- This equipment should be subjected to a visual inspection prior to each use paying particular attention to the gripping rubbers and all bolts are tight.
- The TSZ-uni can be used by the adjustment of the grab arms for lifting different size kerbs.

- The TSZ-uni works by means of pressure from the outside inwards. **It is important to make sure that the goods are defect free and able to withstand this pressure. Any fractures in the concrete or stone could lead to a total failure of the product.**
- To adjust the opening release both of the finger operated spring loaded bolt locate either side of the device below the pivot point.
- Shift the arms, until the opening width is accordingly adjusted. Note that the grab arms are symmetrically arranged and that the distance between the gripper and the load is no larger than 5cm.
- Release the spring into the suitable holes ensuring they are fully relocated.
- The grab is fitted with an automatic release device, that when position on the load will disengage itself allowing the grab to grip the load.
- Once the load has been set down the automatic release unit will engage itself allowing the grab to be lifted clear in the open position.

#### **FTZ-uni15**

- This equipment should be subjected to a visual inspection prior to each use paying particular attention to the gripping rubbers and all bolts are tight.
- The FTZ-uni works by means of pressure from the outside inwards. **It is important to make sure that the goods are defect free and able to withstand this pressure. Any fractures in the concrete or stone could lead to a total failure of the product.**
- To adjust the FTZ-uni15 opening width as follows, turn and disengage both of the spring load bolts.
- Slide the rectangular bars apart, until the opening width is about 5cm greater than the product to be lifted. Release the spring loaded bolts then move the rectangular bar until the spring loaded bolt engages in the next available hole.
- The grab is fitted with an automatic release device, that when position on the load will disengage itself allowing the grab to grip the load.
- Once the load has been set down the automatic release unit will engage itself allowing the grab to be lifted clear in the open position.

#### **FTZ-BB**

- This equipment should be subjected to a visual inspection prior to each use paying particular attention to the gripping rubbers and all bolts are tight.
- The FTZ-BB works by means of pressure from the outside inwards. **It is important to make sure that the goods are defect free and able to withstand this pressure. Any fractures in the concrete or stone could lead to a total failure of the product.**
- To adjust the FTZ-BB opening width as follows, turn and disengage both of the spring load bolts.
- Slide the rectangular bars apart, until the opening width is about 5cm greater than the product to be lifted. Release the spring loaded bolts then move the rectangular bar until the spring loaded bolt engages in the next available hole.

- The grab is fitted with an automatic release device, that when position on the load will disengage itself allowing the grab to grip the load.
- Once the load has been set down the automatic release unit will engage itself allowing the grab to be lifted clear in the open position.

Model	Opening width	Inside height	Gripper length	Carrying capacity	Unladen weight
TSZ-uni	50-570mm	180mm	350mm	500kg	29kg
FTZ-uni15	50-775mm	255mm	420mm	1500kg	85kg
FTZ-BB	50-460mm	290mm	420mm	900kg	67kg

#### 4. Maintenance

- Equipment should be subjected to a thorough examination by a competent person at six monthly intervals.
- Lubricate all joints when necessary.
- Under no circumstances should grease be used to lubricate the automatic release mechanism.
- Check all joints, bolts for signs of damage or wear.
- Check the condition of the handles if present.
- Inspect all chains present for wear, tear, pitting corrosion and distortion
- Check condition and security of gripping rubbers. Return to Marwood workshop if they worn out or damage.
- Should any faults or damage occur to the device please remove from service contacting or returning to your nearest Marwood Group Ltd Depot.

**This equipment must not be modified or disassembled.**