

## INFORMATION FOR OPERATORS

### Outriggers

**Function:** Outriggers (sometimes called Stabilizers) are retractable hydraulic 'legs' that extend, like a spider's legs, away from the truck before they make contact with the ground.

**How it works:** Outriggers keep the machine steady as it pumps. The telescopic support legs swing out and are fitted with fully hydraulic support cylinders thus giving the stability required. The legs are proportionately sized to provide the necessary support for each particular truck's/concrete pump's design.

Setting the outriggers of a concrete pump with a placing boom is one of the most critical jobs of the concrete pump operator and should always be done in accordance with the manufacturer's recommended procedure. If not done properly, it can lead to a serious accident. Tip-over accidents can be avoided if people take precautions when the unit is set up. Both operators and contractors must be aware of the potential danger that exists when a large boom is unfolded and extended over outriggers. If the contractor remembers to offer additional dunnage and if the operator remembers to ask for it when it isn't offered, the problem can be minimized even before the boom is extended.

### Maintenance Tips:

- Check each support leg as part of your daily check, looking for hydraulic leaks, cracks and structural changes.
- Use low to medium pressure water to remove soil, mud, road chemicals, hydraulic fluid or other debris.
- Outrigger pads must be smooth and free from debris in order to evenly spread the load and achieve solid contact with the outrigger pad/dunnage.
- Always inspect your outrigger pads for material integrity prior to use.

### Health & Safety:

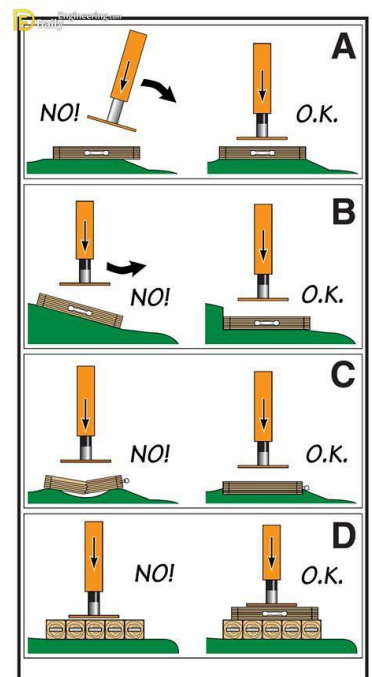
Tipping accidents have occurred as a result of:

- Inadequate dunnage
- Misjudging the soil
- Soil not compacted
- Hidden voids
- Wash outs
- Natural or man-made voids
- Setting up too close to excavations or back filled areas

Take care when setting the outriggers. Never set up on uneven or hilly soil or try to bridge a hole with dunnage. In these cases, you could dig a flat spot in the soil (A,B, & C). Be sure that the outrigger pad contacts all pieces of dunnage. Run dunnage in the opposite direction, if needed (D).

Interrupt the pumping operation if the machine becomes unstable. Factors which reduce stability include, for instance:

You must test your setup by slowly moving the empty boom over each outrigger. When the outrigger begins to sink, retract the boom or move it back in the direction from which it came, until the weight of the boom is removed from the outrigger. Add more dunnage under the outrigger pads and retest until the outriggers are stable. When you put concrete in the boom, again check the outriggers for sinking.

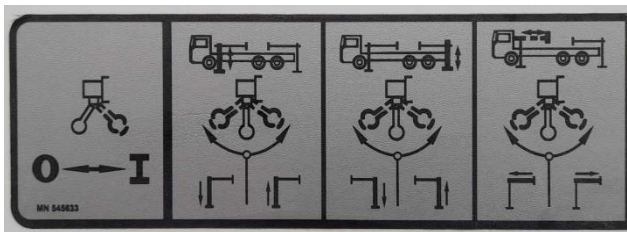
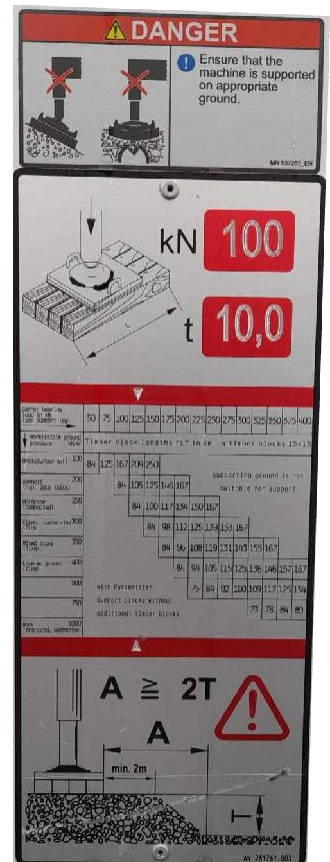
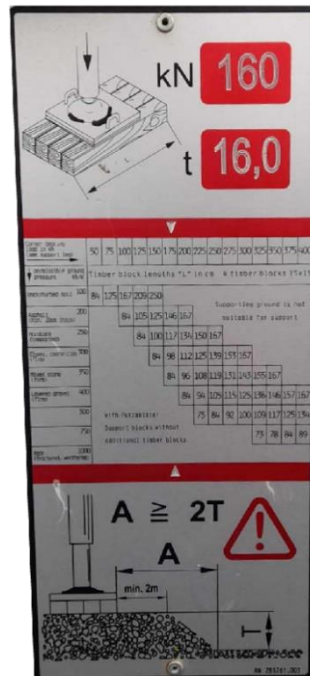


Beware of these outrigger hazards

Check the stability of the machine regularly during operation.

- modifications of the ground conditions, e.g. caused by rain water or the thawing of frozen ground
- the support sinking on one side
- fluid losses through leaks in the support hydraulics

### Examples of safety stickers:



**Link to Putzmeister Outrigger Deployment Video** - This 5-minute video is an example on how to deploy the outriggers on a Putzmeister 36Z showing the outrigger function valves, spirit level, rear outrigger and safety decals. [Putzmeister: 36Z Meter Outrigger Deployment - YouTube](#)

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Our experienced team at CPENZ are here to help. We run detailed training courses at your premise, on your pump tailored to your requirements. These can cover:

- Operating your pump
- Health & Safety when using your pump
- Trouble-shooting
- Maintenance
- Servicing.

[CLICK HERE](#) to let us know what type of training you're wanting or contact Kelly on 0276576444 or [kelly@cpenz.co.nz](mailto:kelly@cpenz.co.nz) for more information.