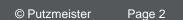


## Safety at work with Putzmeister machines - standard features -

#### Safety at work – Putzmeister standard

#### Handrail next to the water box

- Safe step near the hopper
- Handrail right side for safe water box service



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Delivery notes

0.01

#### Step for cleaning the hopper

- Best position for cleaning
- Folding
- Slip resistant



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#### Fixed water box cover

- Fixed and easy to remove
- Little loss of water during pumping
- Optional water box illumination
- Optional remote control for water box filling and draining



#### Defined jack points at the machine

- Marked with label and color
- Labelled with maximum load in the front and in the rear
- Hooks and eyes make the attachment of lifting equipment easy



Putzmeister



#### **Defined fall protection anchor points**

- Label to use personal fall protection equipment
- Defined and labelled anchor points at the turret





## **Putzmeister**

#### Safety cut off at the hopper grille

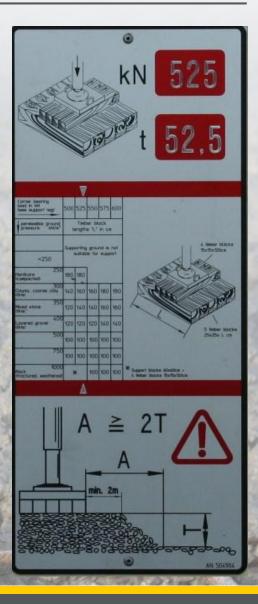
- Wear free operation
- Waterproof and dirt resistant
- Indicator LEDs





#### Maximum support leg force decal

- Indication of the maximum support leg force, at all permissible positions and all admissible conditions
- Example list for timber beams
- Safety information for support close to pits or dams
- Numbers engraved in aluminum plate



#### Safety at work – Putzmeister standard



#### **Snap lock verification**

- Mechanical lock
- Manual lock for driving mode
- Red mark for visual check





#### Boom rest with warning device

- A warning buzzer will inform the operator in the cab when the boom is not in rest and the PTO is put in driving position
- Defined switching force at certain machines (e.g. M3X)



#### Safety at work – Putzmeister standard



#### Hopper cover

 Protection against concrete ejection when emptying the hopper by pumping



#### Wash out lid with ball catcher

- Enabling the ball catcher without opening of the wash out lid
- Ball catcher is protected against loss
- Ball catcher is protected against unintentional engaging



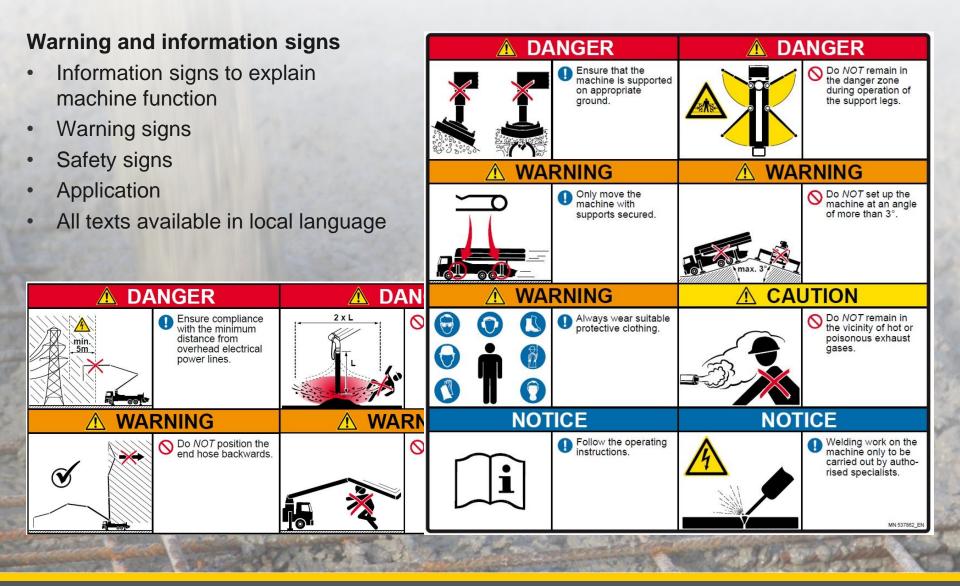
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#### **Boom cylinder protection**

 Preventing vertical boom movement due to ruptured hydraulic hoses or lines



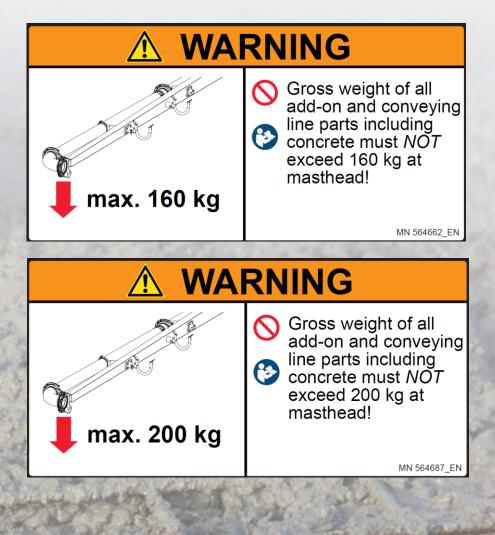


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### Decal for allowed gross hanging weights at the boom tip

- Putzmeister within the rules of EN12001 allows longer end hoses for wall concreting as long as the permissible gross weight including concrete is not exceeded
- Smaller end hoses could be for example up to 9m long (DN 65)
- Attention! Free hanging end hoses longer than 4m are not allowed to be guided by a hose man during pumping





# Additional safety with optional accessories



#### **Optional illumination**

 Illumination kits available for Machine Boom Hopper







### Remote control holder with warning signal

- Warning signal when "PTO" is switched in driving mode and the remote storage compartment is empty
- Safe storage of the remote control
- Avoids expensive replacement units because of loss or damage to the remote control





#### 360° camera

- Cameras on all sides of the machine
- Complete overview of the surroundings of the machine
- Screen changes automatically when driving backwards or setting a turn signal





#### Folding rear underrun protection

- "truck mixer safe" place for the tail lights
- protection against damage during pumping
- Lockable in both positions
- Availability depends on the country of destination

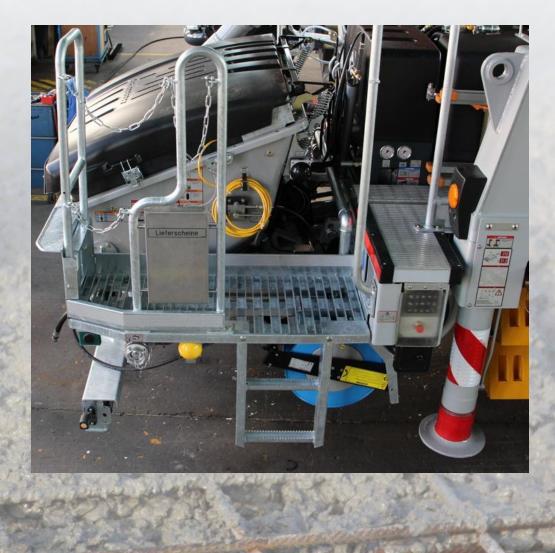






#### Working platform

- Perfect for machine cleaning
- Considerable reduction of accident risk (machine cleaning is a hazard hot spot)
- Folding handrail enables hopper filling with two truck mixers
- Safe steps
- Safe stand
- Availability depends on machine type





#### Swing out step

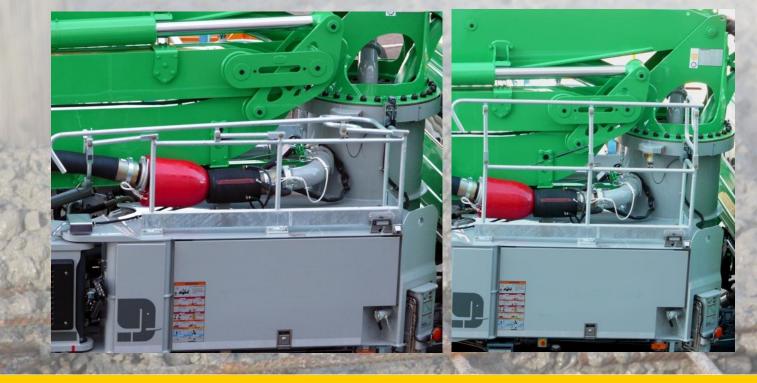
- Left step is swiveling
- Locks in both end positions also in swiveled out position
- Perfect for service and hose stowage





#### **Pedestal hand rail**

- Double beam hand rail at the pedestal
- Fixed in lower position ad middle beam height
- Upper handrail retractable to keep low unfolding height for the boom





#### **Protector for separate end hose connection**

- Hose man protection in case of blockages and inadvertent movement
- Enables hose extensions without removing EQV
- Easy change from end hose to delivery line hose





#### Fill level controlled pumping with indicator

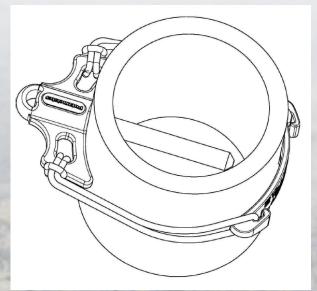
- Stops the pump before concrete sprays out
- Pump restart is enabled when the upper sensor is again reached by concrete
- Large optical indicator visible for the operator from a distance





#### Proven End hose-accessory

- Excalibur prevents spraying concrete at the end hose
- Ideal at low volume or liquid concrete pumping
- Reduces danger of eye injury for the jobsite staff
- End hose hole closed by attached silicon cover during pumping without Excalibur
- Concrete pump manufacturer approval required







#### **Spray container**

- Safe pressurized sprayer
- Ideal for distribution of release agents preventing the concrete from adhering to the hopper area
- Less waste or fogging compared to using truck air without pressure reducer





#### SH- (steady hose) end hose

- Reduced horizontal movement in case of an in adverted release of a blockage
- Stiffer for a easier guidance of the concrete flow





# Safety through preventative maintenance

#### Safety due to preventative maintenance

#### **Re-inspection of the machine**

- standard in all CE countries
- Mandatory request by manufacturers worldwide
- Competent and regular carried out by Putzmeister service staff
- An immediate repair is often possible, if the re-inspection was done at a Putzmeister service station
- Inexpensive repair of small damages can prevent a big crack of load bearing parts
- Visual check of all safety relevant machine parts



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#### Safety due to preventative maintenance

#### **Delivery hose test**

- Regular pressure test with water
- Tremendous reduction of blowing out hoses on the jobsite
- Prevents physical injuries and high liability cases
- Up to now the duty of inspection is regulated without precise instructions
- Putzmeister checks and documents with a sticker





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## Thank you for your attention