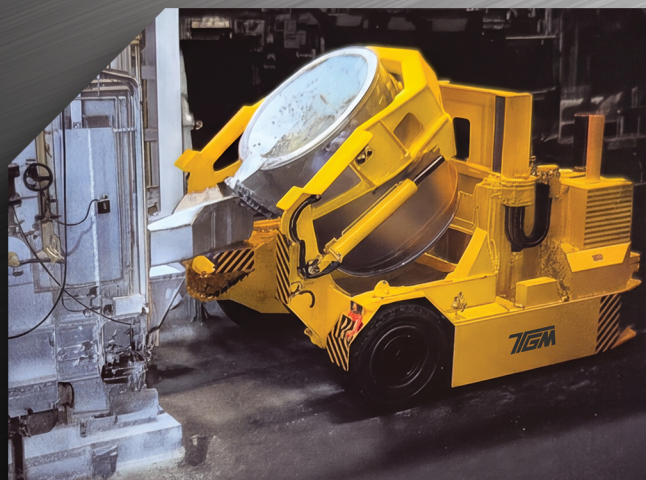




Ladle Charging Trucks

Designed to transfer liquid aluminium between melting and treatment furnaces.

- ladle capacity 2.000 - 20.000 kg
- sturdy design
- straddle-type design for small turning radius and easy manoeuvrability
- open or closed metal transport
- integrated or interchangeable ladle system
- discharging by tilting or pressurizing of the ladle
- large vertical lift to reach different discharging positions
- integrated launder combined with the tilting system
- integrated pressurizing and vacuum system for closed transport
- 180-degree revolving or rotating driver's stand for best visibility

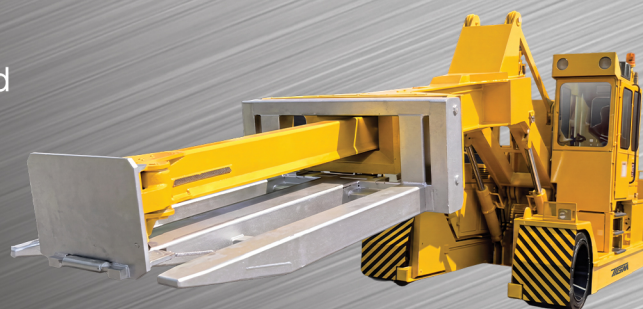




Mobile Furnace Charging Machines

Designed to charge melting furnaces with solid metal and / or alloys.

- box capacity 1.000 - 20.000 kg, respectively 1-40 m³
- sturdy design
- straddle-type design for the smallest turning radius and easy manoeuvrability
- interchangeable box system for a dramatic reduction in the furnace charging time and energy consumption
- box discharging by a pusher-type design avoids damage to the furnace lining
- large reach into the furnace results in a surface-covering filling and prevents material from damming
- large vertical lift allows stacking of several boxes
- designed to accept charging forks or charging platforms
- designed to allow the optional use of furnace skimming or cleaning tools



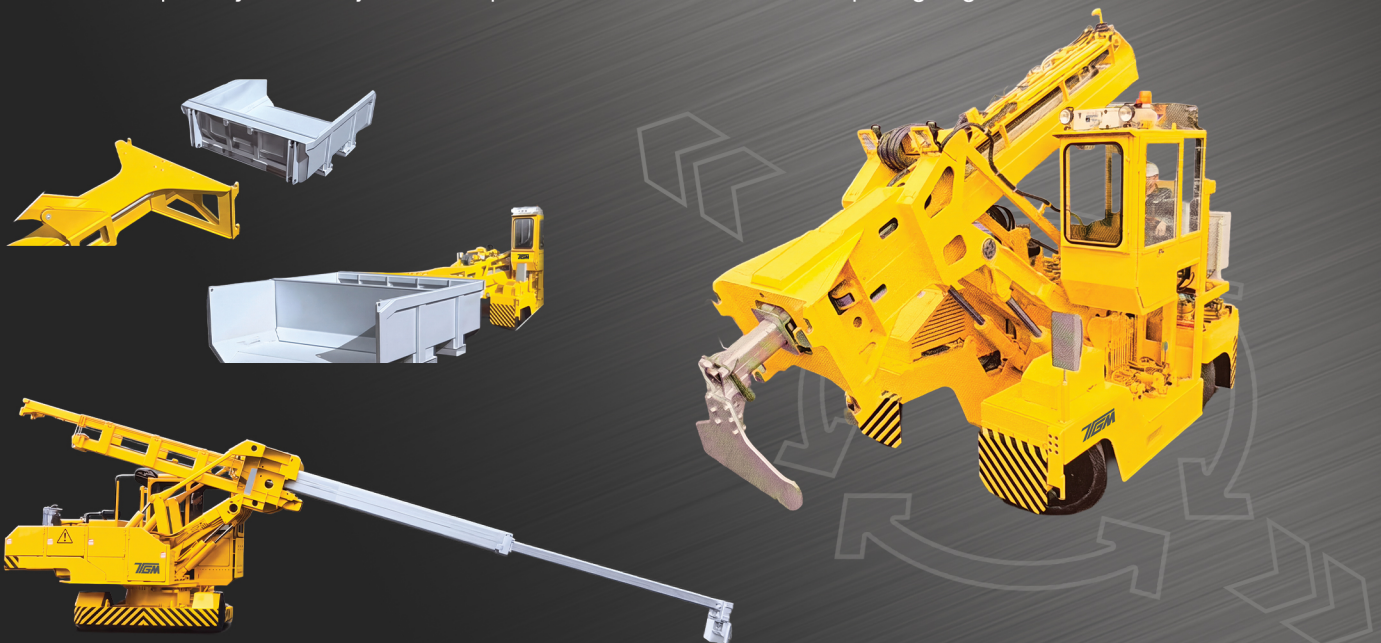


- Skimming
- Cleaning
- Stirring
- Charging

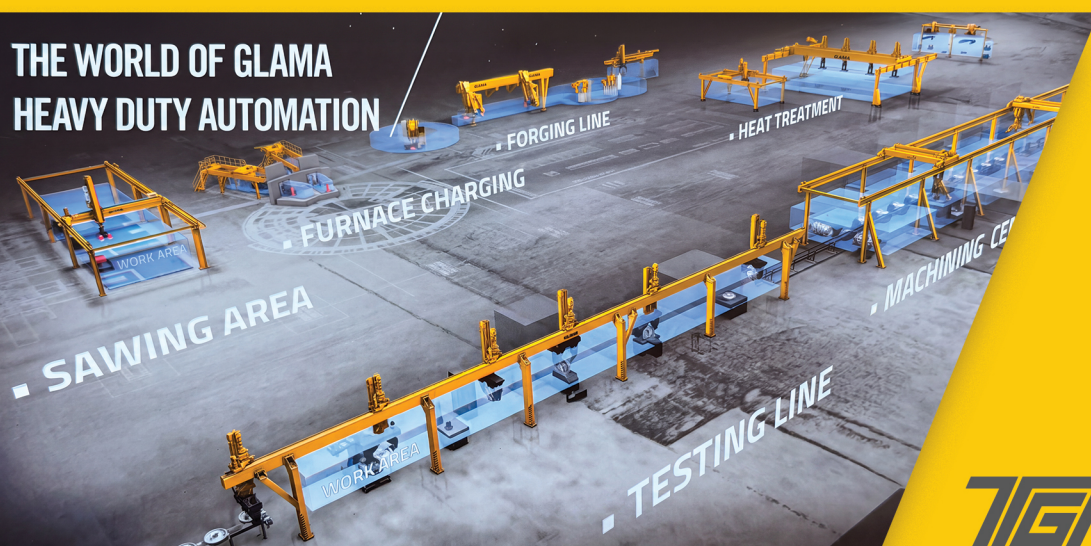
Mobile Furnace Tending Machines

Designed to skimming dross from aluminium melting or holding furnaces as well as for stirring procedures and cleaning the furnace bottoms and side walls, and for charging the melting furnaces with solid metal or alloys.

- Horizontal stroke/reach into the furnaces from 4.000 - 15.000 mm
- Sturdy design
- designed for operation in limited areas and for easy manoeuvrability
- remote-controlled quick-change tool lock with changeover system for different tools
- Standard telescope movements straight-line horizontal, parallel vertical, vertical tilt, and horizontal slew
- Optional movements vertical rotation of the telescope, elbow motion of the tool support and charging box take-up
- standard machine design with slewing upper carriage and limited charging capability
- special design with all-wheel-steering and large charging capability
- driver's cabin optionally vertical adjustable for optimized view at different furnace opening heights



THE WORLD OF GLAMA HEAVY DUTY AUTOMATION



TIGM MAKINA

FORGING MANIPULATORS RAILBOUND

- Rail-Bound Type
- True Backlash-Free Drive
- Mass Separation
- Energy-Saving Operation



FORGING MANIPULATORS-MOBILE

- Mobile Type
- Compact Design
- Large Vertical Lift
- Effective Suspension

