

MADE IN ITALY

FLEXIBILITY | RELIABILITY | DURABILITY

THERE'S NO SUBSTITUTE FOR CERTAINTY



TT TOMORROW
TECHNOLOGY

SYSTEMS AND EQUIPMENT FOR THE ALUMINIUM INDUSTRY



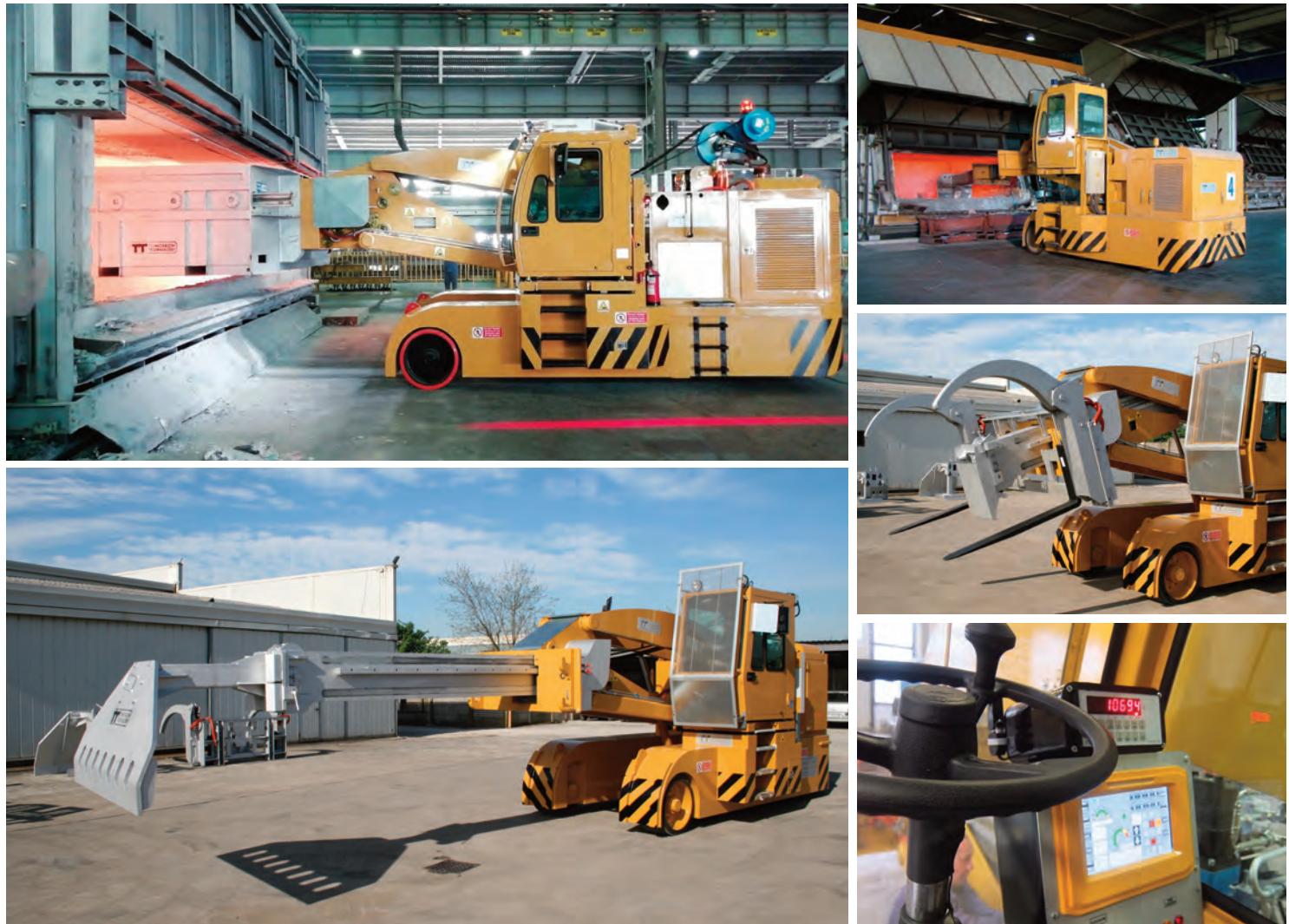
SM Vehicles Special Skimming and Cleaning Vehicles equipped up to 12 m/40 ft telescopic boom

Furnace Skimming and Cleaning Vehicles designed and manufactured by T. T. Tomorrow Technology can provide the following benefits:

- Increase the furnace utilisation and lower gas consumption by reducing the time required to de-dross and clean the furnace
- Provide greatly improved heat transfer by removing the dross acting as thermal insulation on the molten metal, with ease and precision
- Reduce the amount of aluminium removed with the dross during skimming operations
- Avoid dross, sludge and metal build-up that progressively reduce the furnace capacity
- Increase the speed of the cold charge melting cycle, as a result of the ability to mix and submerge scrap into the melt
- Prolong refractory lining life by avoiding the thermal stress caused by lengthy tending procedures
- Reduce the manpower required to carry out the furnace-tending operations
- Improve casthouse safety by removing the operator from the proximity of furnace door during tending operations
- Eliminate the need for forklift trucks to operate in front of the furnace

SK and SL Vehicles

Furnace Tending Vehicles



Special Vehicles designed for charging quickly and with precision solid material, scrap, and alloy

- Boxes capacity up to 30 cubic meters
- The same vehicle can use different sizes of charging boxes
- Automatic weighing system with data transmission
- Ability to also be used for skimming and cleaning aluminium melting furnaces
- Sturdy design suitable for harsh environments like cast-houses
- T.T. is flexible in designing and sizing vehicles suitable for the cast-house layout
- Latest generation diesel engines with low emission and low noise level to preserve and enhance the cast-house environmental conditions
- Very comfortable cabin for the operator's maximum safety
- Extreme ease of driving
- Very tight turning radius and extreme manoeuvrability in all the operation conditions
- Low maintenance and running costs

FC Systems

Automatic Skimming and Cleaning Equipments



Fully autonomous Equipments for skimming and cleaning aluminium melting furnaces

- Stroke of the boom up to 12 m/40 ft
- Cycle time in automatic mode: from 5 to 8 minutes
- Possibility to work also in manual mode
- Precision of movements thanks to proprietary software control system
- Extremely safe in operation
- Possibility to operate in furnaces with different dimensions and shapes
- Low maintenance and running costs

FL Systems

Automatic Charging Equipments



Charging Machines, rail mounted, for charging dry hearth, stationary and tilting furnaces in rapid and precise way

- Charging capacity up to 40 cubic m with special hood to seal the furnace opening and stop any smoke emission in the atmosphere
- Possibility to be equipped with detachable boxes
- Full automated charging process
- Equipped with accurate weighting system and data transmission
- Ability to precisely clean the dry hearth of the furnaces
- The charging box rotates up to 180° to facilitate the loading of the aluminium scrap to be melted
- Autonomous control of the working area by means of laser scanners

TV Vehicles

Transport Vehicles



Vehicles for quickly handling and transporting materials and equipments inside the casthouse

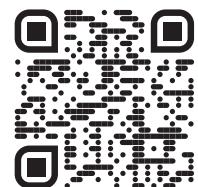
- Transport net capacity up to 50 tons / 110.000 lb
- Suitable for transport of metal ladles, billets, slabs, scraps, casting rolls, bed filters and any other material for melting process
- Equipped with flat trailer, detachable container, tilting container up to 60 cubic meters
- Driver cabin in low position for easy access and easiness to drive
- No drive license requirement inside the casthouse area
- Multicamera system to monitor the area around the vehicle
- Possibility to design tailored solutions to meet specific space constraints, rumps and other limitation typical of the aluminium casthouse
- Equipped with low emission diesel engines and also battery driven



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