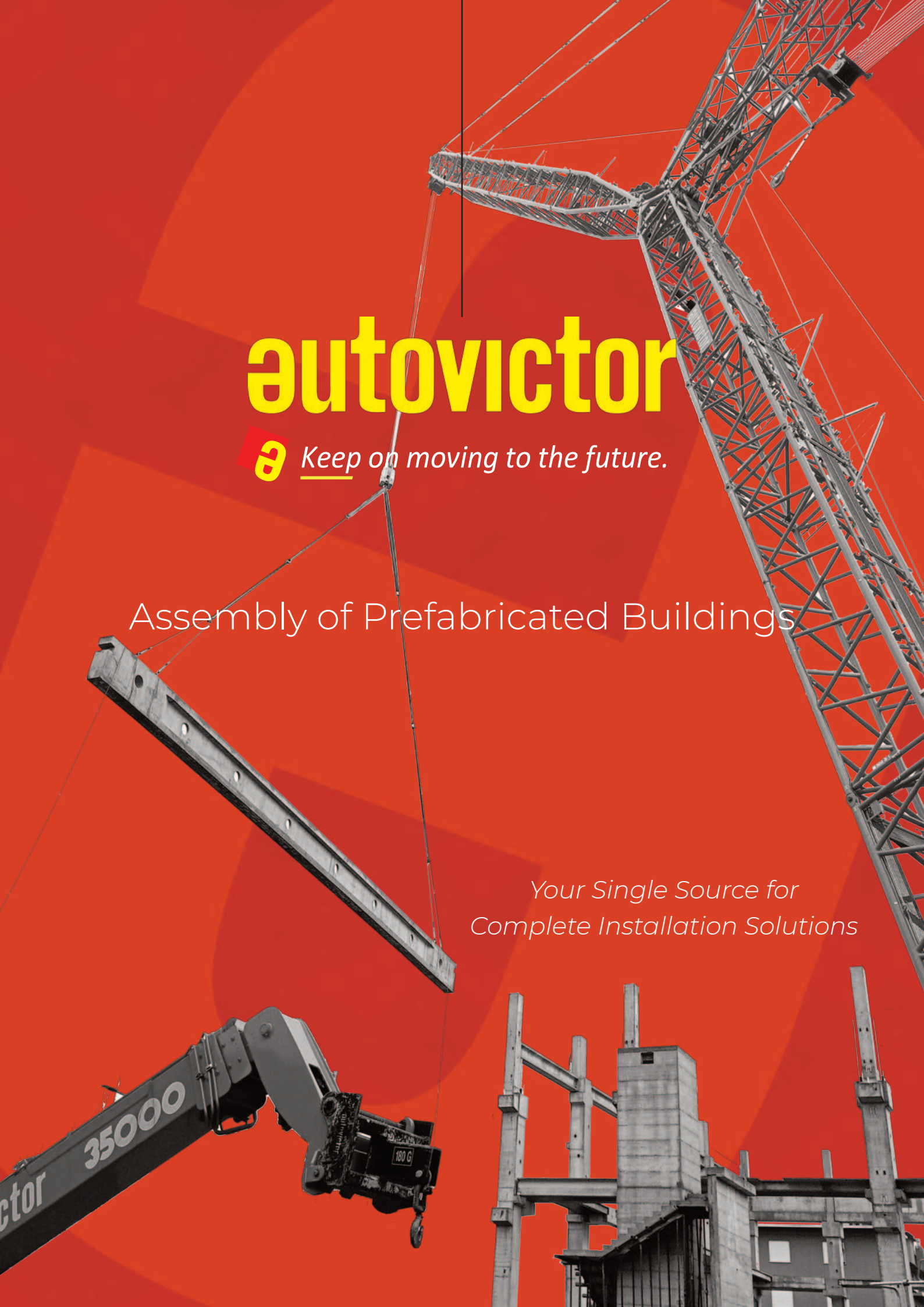




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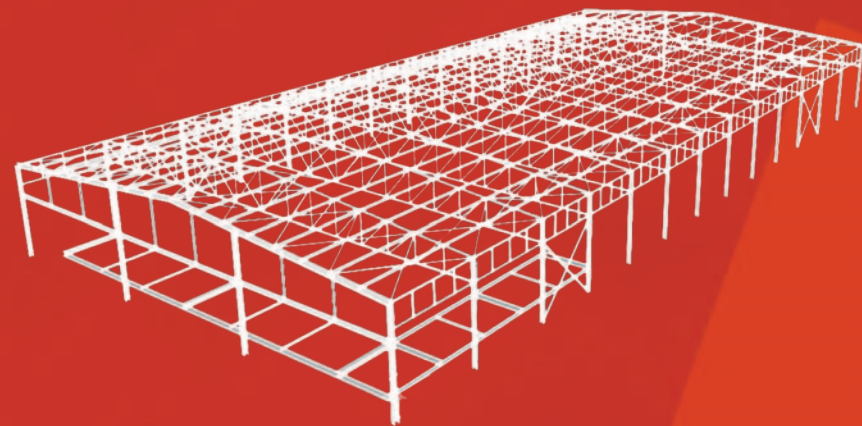
 *Keep on moving to the future.*

Assembly of Prefabricated Buildings

*Your Single Source for
Complete Installation Solutions*

Preliminary planning and evaluation

- o In-depth project review with the Autovictor engineering department
- o Estimate of required resources (personnel, equipment, time, costs).
- o Definition of assembly procedures and sequences
- o Site inspections to verify site conditions



Assembly by specialized operators

- o Autovictor has specialized assembly teams under the supervision of our on-site engineer for constant monitoring during assembly.
- o Use of special connections for high-precision positioning of the products and control of deformations during assembly.

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Machinery dedicated to prefabricated building installation

- o Autovictor has a wide range of manned and unmanned equipment.
- o Compact mobile cranes: 2 hoisting winches for verticalizing pillars and panels.
- o Crawler cranes with pick-and-carry function on difficult-to-access construction sites.
- o Lifting platforms (MEWPs) with long outreach, minimal footprint, and an articulated jib for reaching internal positions or behind obstacles.
- o Telescopic mobile cranes from 80 up to 500 ton for standard prefabricated buildings.
- o Self-propelled articulated MEWPs, electric or tracked vertical machines with articulated outriggers for elevated slabs or industrial environments.
- o Hydraulic support towers for installing tunnel elements.



Construction Site Safety Management

- o Assessment of critical issues related to assembly at height and design of appropriate safety measures.
- o Careful control of the assembly sequence, especially for tall buildings, to ensure the temporary stability of the structure, considering the difficulty of accessing the installation point.
- o Continuous coordination of construction site activities: assembly of the prefabricated units occurs simultaneously with other work in live operating areas

Specific training with Autovictor HSE Academy:

- o Ad hoc training on safety regulations (Legislative Decree 81/08): working at height, capacity of ropes and hooks, safe storage of prefabricated units, use of MEWPs, restraint and attachment systems.
- o On-site training and periodic refresher courses, with sharing of assembly solutions with team leaders.



02 Transportation and Logistics

- o Planning of oversize transport
- o Loading and securing of prefabricated modules
- o Transport and unloading on site



03 Handling and Lifting

- o Preparation of lifting equipment (cranes, mobile cranes)
- o Handling and positioning of prefabricated units



04 Installation and Laying with Autovictor specialized team

- o Fastening and connecting modules
- o Structural joining of elements
- o Stability and safety checks



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01 Construction Site Preparation

- o Ground and foundation assessment
- o Infrastructure preparation
- o Creation of storage and handling areas



Special prefabricated building lifting services with all-terrain cranes, crawler cranes, and telescopic handlers. Assembly by specialized Autovictor operators. Efficiency, precision, and safety!

Artificial Tunnels: Circular / Rectangular Cross-Section

The installation of prefabricated artificial tunnels is one of the most complex and technically demanding tasks in the lifting and structural assembly sector, typically used in railway and road construction. High precision is required during installation to ensure geometric continuity and structural integrity. For the installation of circular cross-sections, Autovictor uses a custom system consisting of a lattice structure that allows for precise positioning of the arched sections, supported by mobile cranes for precise installation of the structures.

For rectangular cross-section tunnels, Autovictor, with its extensive fleet of equipment ranging from telescopic handlers to all-terrain cranes, relies on its extensive experience in the sector for the precise positioning of piers and roof beams, where precision and operational speed are essential to ensure safety and reliability.



Prefabricated Structures for Logistics / Production Plants or Offices

Prefabricated structures for logistics warehouses or production plants are characterized by their high modularity, yet they also require versatile equipment and sequential, coordinated assembly operations—an activity Autovictor understands in detail.

For the main beams, pillars, and infill panels, all-terrain cranes are primarily used, ideal for mobility and stability even on unpaved surfaces. When the weight or position of the structure requires it, crawler cranes are integrated for deep assembly or in areas with limited accessibility.

In more confined spaces or for handling secondary components (panels, lightweight beams, prefabricated façade elements), telescopic handlers are used.



Bridges, Viaducts, Retaining Walls

The assembly of prefabricated elements for bridges and viaducts represents the highest level of logistical and engineering complexity.

Prestressed girders, slabs, and decks require the use of high-capacity cranes, often in double configuration, and sometimes also supported by SPMTs or positioning and installation at height.

When ground conditions are particularly challenging, Autovictor's rubber-tired and crawler cranes provide superior capacity and stability, while telescopic handlers are used for auxiliary movements and installation of secondary equipment.

Precast reinforced concrete walls, often installed along road or railway infrastructure, require special attention, starting with a pre-planning study conducted in-house by the Autovictor engineering office.

Installation involves the use of various types of cranes, which Autovictor selects based on weight, size, and ground conditions.

Installation must comply with strict alignments and inclinations, making the use of lifting equipment with hydraulic leveling systems and laser or GPS guidance systems essential for the exact positioning of the elements.



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