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Load Tests

- Ballast
- Counterbalance
- Hydraulic Jacks
- (Dynamic) with SPMT Modular Trailers



Load tests are performed to verify the structural and functional capacity of structures or components (bridges, prefabricated beams, railway decks, metal structures, industrial bases). They can be static or dynamic and must simulate operating or overload conditions with maximum safety. Autovictor can perform load tests in accordance with current technical standards (e.g., NTC 2018, Eurocodes) using various methodologies:

01 Ballast Load Testing (Concentrated or Distributed Loads)

o Autovictor uses modular concrete ballasts positioned at strategic points to test prefabricated decks, beams, roofs, and walkways with load simulations on logistics and industrial floors.



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03 Load Testing with Hydraulic Jacks (Push or Pull)

Use of Autovictor hydraulic jacks that apply controlled loads to a structure, through push (compression) or traction (lifting), with a dedicated counterstructure. The primary use is load testing on bridge decks, prefabricated structural elements, and foundation piles (pull-out, push-in). The advantage of using Autovictor jacks is the maximum precision in controlling the applied load, with the possibility of testing with progressive load curves and real-time monitoring with load cells and sensors, thanks to the extensive system design and installation expertise of Autovictor operators.



02 Counterbalance Load Tests

A method in which the load is resisted by a temporary structure made of beams, plyths, anchors, or counterweights.

With this method, Autovictor tests foundations, decks where the load cannot be supported, and the tensioning of structural elements.

The advantage is maximum flexibility in application points and use even in small spaces or with suspended structures, perfectly controllable with electronic instruments.



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04 Dynamic Load Tests with SPMT

Use of loaded or ballasted SPMT Autovictor trailers in controlled movement on structures to be tested, to simulate dynamic loads (in transit). Typical use is carried out on bridges or viaducts, railway decks and viaducts with mobile load simulations with modular concrete ballast and beams.

This method guarantees the ability to simulate real dynamic operating conditions with loads distributed on multiple points via independent axes.

This self-levelling system is optimal especially for imperfect surfaces.



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