

# MABO Sp. z o.o.

Infrastructure | Construction

With more than 50 years of experience, we are a leader in the metal industry and a reliable and strong manufacturer of steel and aluminium structures. Our offer comprises steel structures for the needs of railway, tramway, and road infrastructure but also solutions for industry and civil engineering. Every day we provide support to our customers at every project performance stage, from selecting the best solutions to comprehensive implementation of their projects with a full involvement of our own designers, construction engineers and engineers.

The range of our rail infrastructure products includes TUN weightless tensioners (weightless anchoring) and aluminium and stainless-steel suspension systems for traction networks and catenary fittings. Our TUNs are tensioners with a simple structure compensating for the considerable elongation of catenary contact wires and suspension cables and their manufacturing cost is lower than other solutions offered by recognised foreign manufacturers. The weightless tensioning device makes use of a spring ensuring a permanent level of the required tensioning force across the whole range of compensations due to seasons of the year, i.e. cable and wire length changes. Such a spring increases the tensioning force and improves elasticity, which, in turn, enhances the stay cable elongation characteristics within the fixed force range. On the other hand, the overhead catenary suspension system is based on aluminium and stainless-steel elements. It is designed to support the electrical contact wires and other network components. The new system, due to design solutions and materials used, features dead weight lower than that of previously used solutions. It is quick and easy to install and highly resistant to corrosion. Our solution is designed for all types of catenary supporting structures. The structural core is a specially designed section made from heavy-duty aluminium alloy with stainless steel connectors. The electrical insulation of the suspended structure consists of composite insulators with a glass-epoxy rod in a silicone rubber housing.

The patent-protected structures designed by MABO are a result of long-term research and development works carried out in collaboration with academic centres. MABO has been still developing and modernising its products to suit the needs of its customers. An example can be the mobile application to be released soon as an active support for teams of workers installing weightless tensioning devices produced by MABO.



## **Dane teleadresowe**

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