



מדקא
MECHANICS TECHNICAL EQUIPMENTS

NADELLA
GROUP



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DURBAL / durbal.com

CHIAVETTE UNIFICATE / chiavette.com

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THE SPECIALIST FOR MOTION TECHNOLOGY

Nadella, founded in 1930, is a global market leader in the design and production of a comprehensive range of customized linear, rotational motion control and ball screws solutions, offering a wide product range from Linear Guides and Systems, Circular Modules, Telescopic Guides, Needle Bearings and Cam Followers, Rod Ends and Precision Ball Screws, under its proprietary brands Nadella, Durbal, Chiavette Unificate, Shuton and Ipiranga.

Thanks to the integration of **Damo** in December 2021, Nadella has significantly enriched its offering of Linear Axes and Cartesian Systems, ready to be integrated into customers' systems and automatic lines operating in different industrial sectors, such as Machinery and Equipment for Assembly, for Packaging and End of Line, for Filling and Welding, as well as Robotic Cells.

Belt linear axes



The Damo belt linear axes are driven by a toothed belt type AT reinforced with steel strands.

Depending on the model, the belt can be external to the profile (AMC series), contained and guided by the profile itself (CLS series) or fixed (VER series).

The motorization is applied to the heads and tensioning is carried out at the ends of the carriage for the AMC-CLS series, while the motorization is applied to the carriage and tensioning is carried out at the ends of the 2 heads for the VER series.

Ballscrew linear axes



Damo ballscrew linear axes use C5-C7 rolled ball screws for transmission to ensure high precision.

The ball screw, depending on the linear axis model, can be external or internal to the profile. Some models are equipped with a protective polyamide canvas cover while others can be equipped with a protective bellows.

The motorization of the axes is applied by means of a bell equipped with an elastic joint axially to the heads, or with orthogonal belt transmission.

Rack and pinion linear axes



The rack and pinion linear axes Damo (AMR) have the transmission with a rack with oblique teeth, hardened and ground, mounted externally on the profile of the structure.

Depending on the model, racks with modules of 1,5, 2 and 3 and with quality Q6 are used.

The drive is applied to the carriage, in a vertical or orthogonal position and the adjustment of the clearance between the pinion and the rack is carried out by acting externally to the rack.

The rack axes can be equipped with a polyurethane pinion and an automatic rack lubrication system to ensure smoothness, silence, reliability and durability.

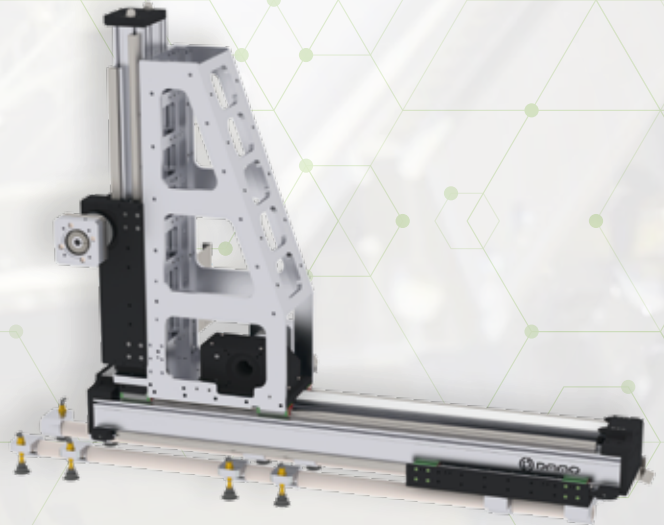
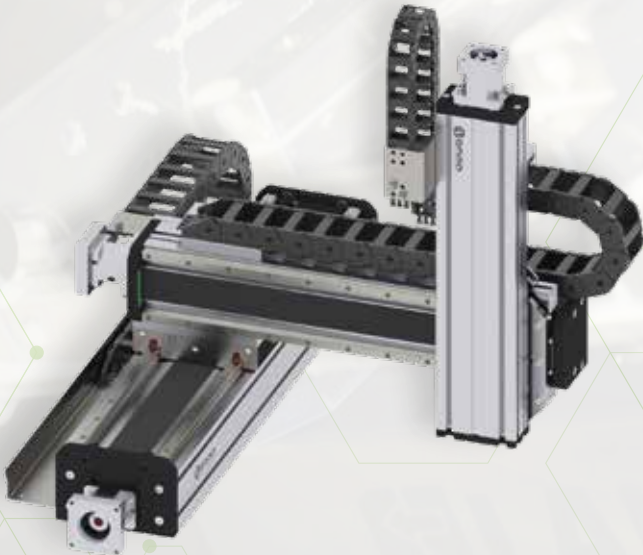
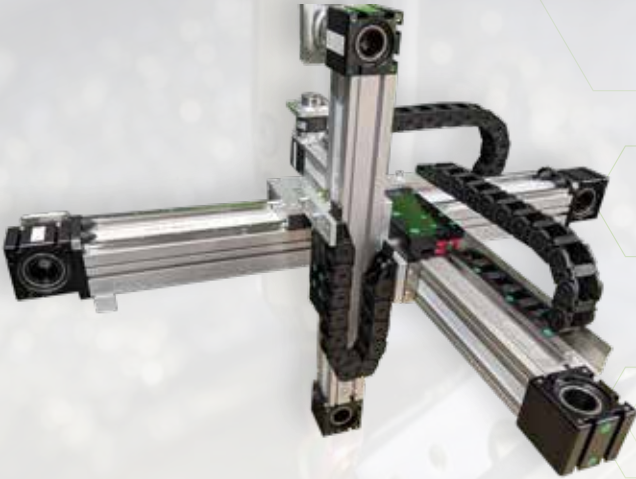
Telescopic linear axes



Damo telescopic linear axes can have belt / belt transmission and movement with rod and mobile carriage in synchronous output or double rod in synchronous output.

Some models, on the other hand, have rack / belt transmission and movement with double rod in synchronous output.

Standard Cartesian Systems



Custom and Heavy Systems



Multi-Axes



Transfer and 7th Axes



Gantry Portals



Gantries



Flexibility

Internal design and manufacturing allow to work in co-design with the customer, and to develop with extreme flexibility the correct technical and economic solution.



Punctuality

The direct management of design and production allows to optimize development time, implementation of project and their delivery.



The direct management of development and production cycle and the consolidated relationship with suppliers allows to maintain an excellent value for money.

Mechanical workshop with latest generation machine tools and an assembly department equipped with adequate instrumentation, allow to perform with repeatability of all phases of the process and therefore to ensure high reliability.



Competitiveness



Reliability





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