Press release

Dürr Brazil contributes to safety, ergonomics and efficiency in assembly lines

Manipulators – handling equipment for assembly lines in South America

São Paulo, 24-08-2021 – Moving heavy parts or working in areas with difficult ergonomics can be a major challenge for employees on production lines. With its manipulators, Dürr Brazil has introduced a handling and assembly equipment that eliminates heavy and non-ergonomic work and contributes to a safe and efficient working environment sustainably.

Established in 1964, Dürr Brazil is an important partner in various industrial sectors in South America. With approximately 300 employees, its role consists of developing complete systems for the automotive industry as well as providing modernization to existing lines.

Safety, ergonomics and efficiency

The new manipulating equipment was developed based on Dürr Brazil’s extensive know-how in automotive assembly lines. Manipulators are used when a product or component to be moved is heavy, has low stability or when it needs to be placed in areas with limited access - avoiding any safety risks during handling. With Dürr’s manipulators, a safe and ergonomic handling of products in all directions is assured.

**Advantages of manipulators**

Agility, ergonomics and safety for operators, parts and vehicles are some of the benefits using Dürr’s manipulators.  
With a specialized team, responsible for the entire development process, Dürr presents the improvement of process efficiency at the lowest operating and maintenance costs.

Satisfied customers

Individual planning and simulations in advance eliminate possible process failures. In addition, in order to avoid potential failures, several internal tests are conducted before delivery and installation at the customer’s site. The application of Dürr’s manipulators is very wide and it’s possible to develop individual handling solutions for practically all components of an assembly line, such as doors, windshields, axles, instrument panels, wheels or other.

*“Safety, ergonomic and efficiency are very important in assembly lines. With our manipulators we make the assembly process easier in production lines and contribute to a safer working environment”*, says Stephan Roisin, MPS director in Sao Paulo.

**Final assembly at Dürr**

For the final assembly business, Dürr has set up a global strategy: NEXT.assembly. The strategy integrates all of Dürr’s technology and consulting spectrum in a one-stop-shop solution aimed at enabling manufacturers to assemble vehicles as efficiently as possible. The building blocks for this are conveyor, gluing, marriage, filling, and testing technology as well as digital solutions for intelligent control of overall production. Dürr offers the portfolio as a modular system of individual components or as a complete solution.

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Figur1: Manipulators on the assembly line of commercial vehicles in Brazil

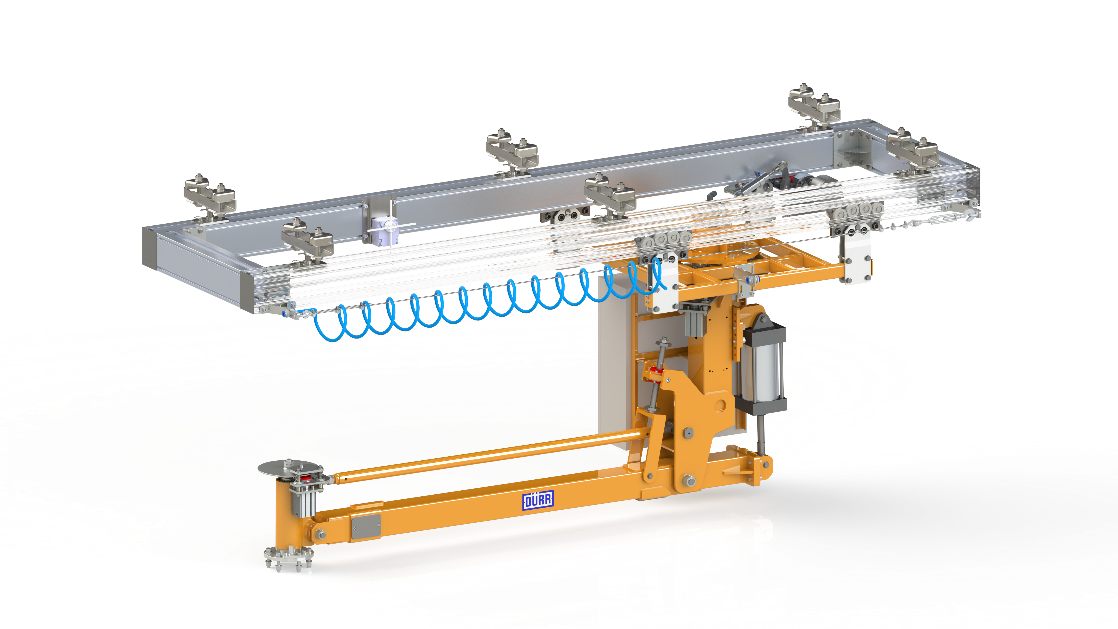
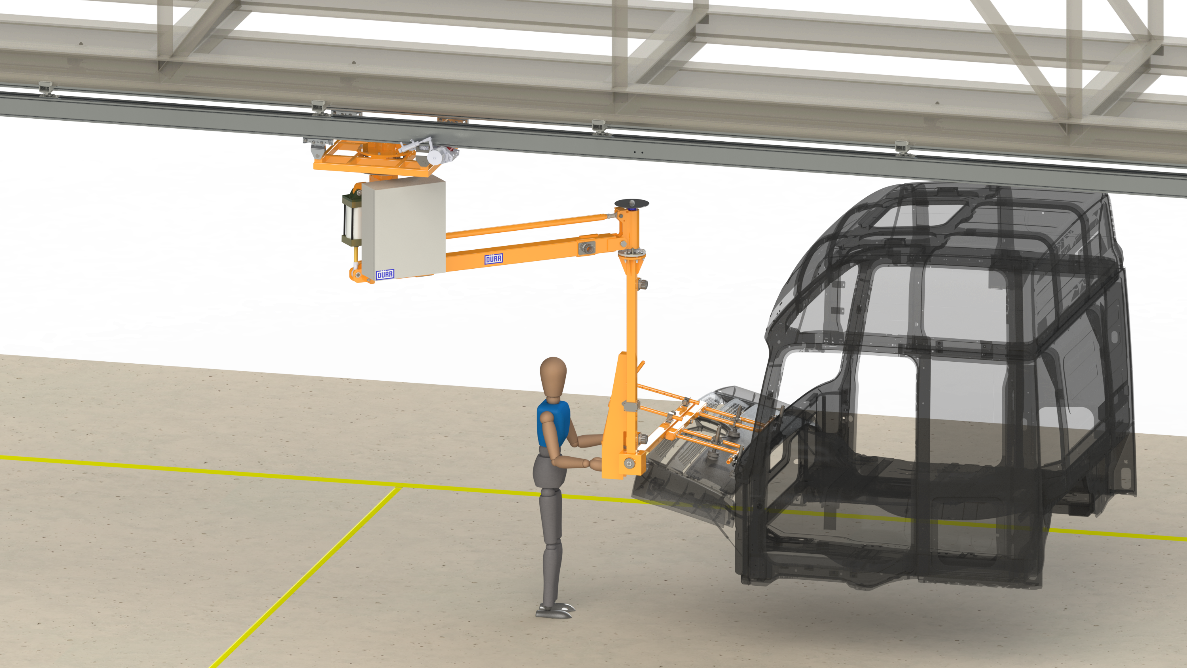


Figure 2: 3D design of the complete moving system (rails, carriage and arm) of the manipulators

Figure 3: 3D process simulation example

**About Dürr**

The Dürr Group is one of the world's leading mechanical and plant engineering firms with extensive expertise in automation and digitalization/Industry 4.0. Its products, systems and services enable highly efficient and resource-saving manufacturing processes in different industries. The Dürr Group supplies sectors like the automotive industry, mechanical engineering, chemical, pharmaceutical, medical technology and woodworking industries. It generated sales of € 3.32 billion in 2020. The company has more than 17,000 employees and 121 business locations in 33 countries. Since February 2021, the majority-owned automation specialist Teamtechnik has also been part of the Group. The Dürr Group operates in the market with the brands Dürr, Schenck and HOMAG and with five divisions:

* **Paint and Final Assembly Systems:** paint shops as well as final assembly, testing and filling technology for the automotive industry, assembly and test systems for medical devices
* **Application Technology:** robot technologies for the automated application of paint, sealants and adhesives
* **Clean Technology Systems:** air pollution control, noise abatement systems and coating systems for battery electrodes
* **Measuring and Process Systems:** balancing equipment and diagnostic technology
* **Woodworking Machinery and Systems:** machinery and equipment for the woodworking industry

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