

A “tech-demo booth” to show the excellence in construction equipment solutions At Conexpo Carraro is back to display the evolution of its heritage: the future will pass through electric & hybrid

Thanks to Augmented Reality it is also possible to go in deep on our innovation

Las Vegas, 12 March 2020 – Carraro Group confirms its participation to Conexpo - Las Vegas (Booth B90303 Bronze Lot), one of the most important fairs in the construction equipment sector at global level.

Due to the international situation linked to the Coronavirus outbreak, we have a limited and resident staff at our booth and Carraro strictly applies to the instructions and measures put in place by the exhibition organizers.

On the occasion of the Conexpo 2020 trade fair, Carraro Group is demonstrating its own capability to develop state-of-the-art solutions in coherence with the evolution of markets requirements.

Context

Within a scenario that registers a massive urbanization (by 2050 nearly 70% of the global population will live in urban areas) and an extensive migration from the rural areas of developing Countries, the need for infrastructures is expected to grow constantly. It means new constructions, more maintenance and a substantial growing demand for equipment. In this context the new global motto is “do more with less”: productivity and efficiency are the key pillars. Such as less fuel consumption.

The Carraro Way

In the construction equipment sector, like in the agricultural one, Carraro can offer a wide range of solutions from Basic to Premium, leveraging as much as possible the design modularity and scalability to address the most advanced solutions together with the ones using more “frugal” technology, thus obtaining best cost and performances.

This is possible also thanks to a solid global footprint: with state of art operations and R&D Centers in Asia (China, India), South America (Argentina, Brazil) and Italy. All centrally coordinated by the Italian HQ.

This organization enables a deep understanding of the local market requirements that, combined with a consolidated know-how integrating hydraulic and electronic competences to the mechanical ones, makes Carraro a real Global System Provider.

So today Carraro is able to offer a comprehensive product portfolio of complete drivelines for all the most popular construction equipment machines, such as backhoe loaders, tele boom handlers, compact wheel loaders & small wheel loaders, wheel excavators and soil compactor. In addition to that, Carraro Engineering is able to develop innovative solutions for further CE and special applications.

Electrification: the new path

Leveraging the 25 years of experience in development and supply of integrated drive systems for material handling applications for electric traction, Carraro more recently extended its portfolio to hybrid electric machines and electric powertrains.

Now Carraro can offer the design of the whole system, combining its traditional mechanical know-how with strong electric/electronic competences. Able to support all the electric architecture topologies, Carraro is able to lead the complete e-powertrain through a dedicated ECU, then sizing and integrating the most suitable electric modules: from motors and generators, to inverters, batteries and battery management system to obtain the best performance for the entire system.

Carraro Highlights at Conexpo: from solutions to Augmented Reality

Within a compact “tech-demo booth” in Las Vegas Carraro is displaying three main examples of its innovations both in terms of products and of service capabilities, highlighting its unique value proposition from the component to the complete machine.

More in detail Carraro is showing:

- **eTCH90 Long Drop / Torque Converter Full Powershift Transmission:** designed to become Parallel Electric Hybrid unit. Suitable for several equal size tire machines, starting from tele boom handlers.
- **eTB220C / Gearbox specifically developed for full Electric Applications,** able to have minimum power losses even at high input rotation speed.
- **FLS 3.2 / Full powershift Hydrostatic Gearbox,** able to fulfill the performance demand of several machines, ranging from small wheel loaders to tele boom handlers.

All the gearboxes above are controlled by a software developed to run in the Carraro proprietary ECU, fully compliant with ISO 25119 (Functional Safety).

Moreover, for all the powertrain applications Carraro can also enable to achieve further fuel efficiency and productivity through the simultaneous control of the whole powertrain (i.e. engine and transmission) thanks to its competence in developing control software to be injected in its proprietary Electronic Control Units.

This year in the Carraro booth, thanks to a special Augmented Reality Tool, it is also possible to go more in deep with our technical solutions to better understand how we can fit them on different kind of applications. Our guests will be able to experience a real path through the Carraro know how in an unusual & involving interactive way.

CARRARO @ CONEXPO - BOOTH B90303 BRONZE LOT

Carraro Group profile: a guarantee in the off-highway sectors

Carraro is an international group, leader in transmission systems for off-highway vehicles and specialised tractors, with consolidated turnover in 2018 of €624 million.

The Group’s activities are divided into two Business Areas:

Transmission systems: Through the subsidiaries Carraro Drive Tech and SIAP, the Group designs, manufactures and sells transmission systems (axles, transmissions and drives) mainly for agricultural and construction equipment, and also markets a wide range of gears for very diverse sectors, from the automotive industry to material handling, agricultural applications and construction equipment.

Tractors: Through the subsidiary Carraro Agritalia, the Group designs and manufactures special tractors (for vineyards and orchards from 60 to 100 hp) for third-party brands, namely John Deere, Massey Ferguson and Claas, as well as a specialist own-brand range; Agritalia also provides engineering services for the design of innovative tractor ranges.

The Group’s holding company, Carraro S.p.A., has been listed on the Italian Stock Exchange since 1995 (CARR.MI) and has its headquarters in Campodarsego (Padua). As at 30.09.2019, the Group had 3,155 employees – of which 1,460 based in Italy – and manufacturing facilities in Italy (3), India (2), China, Argentina, and Brazil.

> <https://www.carraro.com>