Presented at Bauma the new range of DriveTech integrated systems for construction equipment applications

Carraro DriveTech, the full-liner answer for Construction Equipment today and tomorrow

Among the solutions, there is VaryT, the continuous variable transmission module, and E&Go, the innovative electric traction system for off-highway applications

Munich, April 2010 – Carraro DriveTech, the Carraro Group’s Business Unit focused on designing and manufacturing integrated transmission systems, is a confirmed full liner at Bauma in Munich offering integrated solutions (axle-transmissions) for the construction equipment market.

Knowing that once the tsunami, that seriously impacted every area of business, has passed and nothing will be the same as before, Carraro Drive Tech intends to consolidate its market position and broaden its already impressive product offering, which demonstrates its important R&D leverages that lay the foundations for tomorrow’s technological solutions.

DRIVELINES
In Munich, Carraro DriveTech will present a series of drivelines addressing the most common earth moving applications, such as telehandlers, compact wheel loaders, and wheel excavators.

Drivelines for telehandlers
A new generation of steered axles for telehandlers (26.27 front and rear) is presented matched with two different types of transmissions: one semi-automatic (TLB1 SPS, Power Synchro) and one automatic (TLB2, Power Shift), demonstrating a high level of versatility.

Drivelines for compact wheel loaders
Two twin axles per size (28.32), but in an oscillating front version, they are designed for compact central joint wheel loaders. Two hydrostatic transmissions are presented as an integration to the system: a one-speed (TB172) and a two-speed one, the Shift&Go version (TB172/2 Shift&Go).

Drivelines for wheel excavators
From a consolidated tradition in design and planning of medium-power systems for off-highway systems come the new axles for wheel excavators (26.32 front and 28.32 rear). The solution requires that a 2 speed Power Shift (FLS 3.2) hydrostatic transmission is flanged on the rear axle. A further enhancement, indicating the completeness of the entire system, is the presence of a slew drive (s5) for the rotation of the excavator tower.

DRIVES
Bauma will also be an opportunity to exhibit a large range of drives, designed by O&K Antriebstechnik, in a wide context of application. O&K Antriebstechnik is the centre of excellence within Carraro DriveTech and develops drives for construction equipment and mining applications (travel & slew drives, cutter drives, winch drives), for stationary applications (powerstations for escalators & walkways) and for wind power generators (pitch & yaw drives).
Travel drives
In the rich offering of final drives available for the tradeshow in Munich, some examples were chosen, such as: F55 final drive, F130 and F440. But on the occasion, we also want to announce that the F3000 drive has also come into this range, which is the world’s largest final drive ever made, meant for high range crawled excavators for mines.

Slew drives & other drives
Together with the travel drives range, some slew drive examples are presented (S5, S13, S34), an ideal complement to the integrated transmission systems for crawled or wheel excavators, as well as a 2 speed final drive (FL40) and a cutter drive (FA130) for road rehabilitation.

Hi-Tech Box
In particular we highlight, in the dedicated "technology house", two evolved transmission solutions which will also be exhibited at Bauma, planned for tomorrow’s off-highway applications.

VaryT Module
The concept represented by VaryT, presented for the first time at the last Agritechnica, the agricultural machinery sector’s most important exhibition, represents one of the most interesting technological evolutions applied to the existing range of transmissions, which will develop in a wide programme both in the agricultural sector and in the earth-moving sector over the next 5 years.

The continuous speed adjustment takes place by means of a ‘full-toroidal’ variator – technology famous for being used in cars and, specifically, in the KERS (Kinetic Energy Recovery System) by some of the major Formula 1 teams.

The VaryT configuration allows for the constant use of the engine at optimal number of revolutions, thereby guaranteeing important reductions in emissions, whilst increasing productivity and drive comfort, but above all guaranteeing a substantial reduction in tractor fuel consumption. Furthermore, thanks to its mechanical nature, the VaryT is today proposed as the most efficient continuous variation drive system the market has to offer.

E&Go system
The new E&Go system represents the ideal union of the best technical ability in motion transmission mechanics and the know-how developed in electronics, applied to a new type of propulsion.

In this system, next to a 2 speed robotized transmission (TB172/2), there is an inverter developed by Santerno, the Carraro Group’s centre of excellence for power electronics.

This innovative, highly efficient, 2 speed electric powertrain born from an integration of abilities within the
Carraro Group, is the ideal answer for tomorrow's construction vehicles, on the road to sustainable mobility. In particular, E&Go is proposed for applications such as telehandlers and compact wheel loaders and is designed to be applied in hybrid or "zero emission" vehicles.

Carraro is a multinational group leader in power transmission systems, with a consolidated 2009 turnover of 487 million Euro. Organized into four different business units (Drivelines, Vehicles and Complete Traction Systems, Power Controls, Gears and Components) the Group designs, manufactures and markets drive systems destined for construction equipment, agricultural tractors, machines for the transport of materials, light commercial vehicles, automobiles and stationary applications (such as escalators). The Carraro Group is a supplier of advanced technological solutions and integrated systems, in an actual strategic partnership relationship with its clients, supported by its constant efforts to keep its performance levels, product and service quality as high as possible throughout the world. The Group, whose parent company Carraro S.p.A. has been listed on the Italian Stock Exchange since 1995, has its main offices in Campodarsego (Padua); it employs 3,612 people, of which 2,024 in Italy, and has manufacturing plants in Italy, Germany, Poland, Argentina, the United States, and China. For more information carraro.com

Press Office – Carraro Group

Massimiliano Franz
Office +39 049 9219289
Mobile +39 334 6627367
Email: mfranz@carraro.com