

Keeping it modular

CREATING A CUSTOMIZABLE ARMREST WITH MULTIPLE POTENTIAL APPLICATIONS WIDENS THE SPECTRUM FOR POTENTIAL CUSTOMERS

▶ The Syn Trac vehicle system is revolutionary. It impresses with its modular design, versatility and ease of operation. It is a vehicle system that can be converted into different off-highway vehicles in a matter of minutes by changing accessories or attachments on the front or rear, all without the operator having to leave the cab.

The versatility of the vehicle system was at the heart of the development work. The Syn Trac development team designed an interface that is positioned both at the front and rear of the vehicle so it is easy and safe for the operator to attach a wide range of implements such as mowers. Both interfaces have all the same features and all the necessary connections for hydraulics, pneumatics, PTO shafts, electrics, electronics and CANbus, as well as a wide range of control concepts. To be able to connect any accessory in a fully automatic way, an additional adapter plate is required. Syn Trac, as the system provider, supplies this individually made to measure.

"It takes less than a minute for the accessory to be ready for operation and the operator can remain sitting in the cab," explains Stefan Putz, executive director at Elobau. "It is both convenient and safe. The automated coupling process also saves time and ensures incorrect attachments are avoided." The Syn Trac can also be converted to a standard vehicle by docking a standard adapter that a lifting device or local mounting plate can be specified.



ABOVE: Attachments can be changed in the cab

BOTTOM LEFT: The 225MA midi is modular

designed to conform with regulation EU167/2013, which is of special benefit to agricultural manufacturers.

Extra perks

Another standout feature of the armrest for Syn Trac was the sustainability aspect. Even at the development stage, the armrest was designed with sustainability in mind in terms of the material choice, manufacturing process and versatility of use. The majority of plastic components are made from bio-based plastics with no compromise on durability, quality or cost-effectiveness.

Like the 225MA midi modular armrest, the Syn Trac is modular, versatile, designed for ease of use and with the operator in mind. With the wide range of possible applications of the Syn Trac and the configurations of the armrest, both the vehicle and the operating system offer a real cost-effective alternative solution.

Both Elobau and Syn Trac will be at Agritechnica in Hannover from November 10-16. **ivT**

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New collaborations

As it is a modular vehicle, Syn Trac chose the modular multi-function armrest 225MA midi from Elobau. Usually, given the individual nature required for such an operating system, a customised armrest would be needed.

However, with this armrest that is equipped with tried and tested ergonomically designed standard elements, the specific development work to create a customized product is no longer needed.

The armrest consists of five modules, each with numerous variants. They include joysticks and hand throttles, an operating unit with push button switches and thumbwheels, a storage compartment with a charging socket for mobile phones, a hitch wheel and potentiometer. Each control is clearly marked with symbols and colors for ease of use, making it simple to operate a complex machine.

As the modular armrest operates on the standardized CAN protocol SAEJ1939, it is easy to integrate into the complex control system. The CANbus system was crucial to the Syn Trac developers. It allows the individual control functions to be programmed and simplifies the complex connection of the attachments. It is



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