CNC novelties twice over

Compact joining and cutting shown in Hannover

With Robot-Drive, Hundegger has expanded the realm of CNC joinery. Now they have taken cutting even one step further with the Turbo-Drive. And also for CLT there is a solution coming.

CNC-joinery is getting increasingly commonplace in the wood construction industry. This is mainly due to the market leader Hundegger, Hawangen/DE. The managers and technicians from the Allgäu company showed new entry-level systems for fully automated cutting and joinery at the Ligna trade fair in Hannover/DE. And they drew large crowds. After all, innovation in joining technology and Bavarian beer garden culture have always been merrily intertwined on the Hundegger stand.

Joinery that the market has been missing

At the Hundegger innovation days in January, mastermind Hans Hundegger already presented his most recent big (small) hit: The Robot-Drive extends Hundegger’s range downwards, but features everything carpenters might possibly need for joining. A six-axis robot arm machines rod-shaped wood elements on all sides without turning edges. Rotating at 12,000 rpm, the spindle selects the right tool out of 16 all by itself and goes on milling, sawing or working through the wood, processing cross sections of up to 30 by 125 cm. This even allows for joining CLT elements. The machine’s compact design saves space. In addition, the work area from is shielded from dust and noise emission. Like the Robot-Drive, it is installed on a level concrete floor – without requiring additional building measures.

Hundegger’s next innovation – the PBA-Drive – will focus on the large-scale cross-laminated timber.

Cut, drill and mark

For easy cutting, Hundegger have expanded their range around the Turbo-Drive. Walter Fahrenschnor characterized this new machine as „fast, accurate and flexible“. The target group includes manufacturers of prefabricated houses or gang nail trusses as well as size cutting in the packaging industry. The Turbo-Drive is the right choice when relatively simple but precise cuts and holes are asked for. It also allows for marking on all sides and for component sizes between 2 by 4 cm and 16 by 45 cm to be processed. The heart of the machine is a flexible sawing unit. With a fivefold spindle that can be swivelled by 360° and tilted by 90°, all crosscuts, miter and compound cuts as well as bird mouths, ridges, eaves formwork notches and lap joints are possible.

In contrast to a solution with a subtable trim saw, the blade can move on its axis below the workpiece and thus also perform horizontal slot cuts in all angles and widths required. As an option, Hundegger will upgrade the Turbo-Drive with two vertical milling and drilling units. In many cases, several components can be cut and finalised as a stack in one pass. The compact machine is encapsulated to protect against dust and noise emission. Like the Robot-Drive, it is installed on a level concrete floor – without requiring additional building measures.

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HUNDEGGER

FACTS & FIGURES

HUNDEGGER

Founded: 1978
Managing Directors: Hans Hundegger, Otto Notthelfer, Walter Fahrenschnor, Hans Schillmeier
Location: Hawangen/DE, weltweit 26 Niederlassungen und Vertretungen
Employees: 400 (300 in Hawangen)
Product range: Joining units, size cutting, gantry machining equipment, panel saws, planing units, machinery for solid wood wall and profiled wood elements

Walter Fahrenschnor (right) and Arno Gaggl provided technical information at the booth

New in the range: The Turbo-Drive for cutting work with compact processing zone

Usually in a single pass, the Turbo-Drive cuts, drills and mills – also stacked workpieces

The mechanics of the Robot-Drive has attracted curious glances on every show so far