

HACO - MUBEA

The Mega-Flex is a twin gantry machine and features a bed length of over 60 metres and is designed for the efficient machining of large panels, such as those found in the transport and aerospace sectors, particularly the rail industry.

The two gantries, which each have a five-axis spindle head of up to 44 kW and a 36 position toolchanger, can operate in tandem or as separate X-axes to maximise the machine's dynamics when machining large aluminium panels measuring up to 3500 mm wide by 1000 mm high (1500 mm option). The innovative double vertical clamping system on each gantry ensures that the panel is securely clamped under the machine spindle at all times, and to ensure that the profile is machined exactly to the drawing the probing routine automatically compensates for any distortion in the panel.

The spindle heads have axis movements of +/- 110 degrees in the A-axis and +/- 225 degrees in the C-axis and is capable of handling tools up to 700 mm diameter, such as circular saw blades. Mega-Flex also features two Siemens 840D CNC control units, one at each gantry, which can operate the two gantries independently or in tandem depending on the parts being machined, for example two heads working on one large panel, or in a pendulum-type operations with the table split between different components. The array of clamps along the machine table are positioned automatically by gantries and up to 32 clamps can be specified.