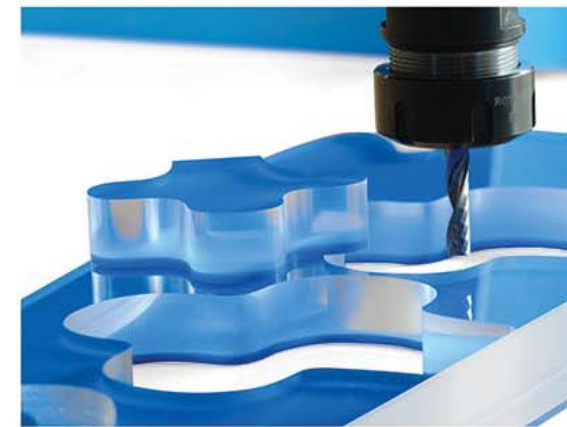


Large Area Milling Machine



Large area milling machines are devices designed for heavy production works, featuring high efficiency, and robust and stable construction.

The milling machines perform both flat (e.g. cutting shapes out of sheet metals, drilling on the basins of two-dimensional drawing), and three-dimensional milling tasks (e.g. preparation of models for casting, laminating, thermal forming). In milling works, in which a number of tools are used, the routers are equipped with systems of automatic tool changing with storage. Automatic tool changing is available in linear or rotational version, depending on the size of the table and the customer's needs in terms of machine efficiency. Industrial machines are equipped with suction foot or suction hood. It is an effective means of dust extraction from the milling station. Suction hood may be set automatically on different heights, depending on the length of the attached tool, so that secure the most effective dust extraction. Large area milling machine tables may be executed in the basic version, that is T-slot tables. The most common, however, are vacuum tables, facilitating very strong fixation of large format materials,

without the need to use mechanical fixation. If a vacuum tables does not provide sufficient fixation, we provide our customers with hybrid tables. It is a table with very dense T-slots, to which vacuum is supplied. Owing to this, there is a possibility of adhering the large format elements by suction, as well as screwing in smaller elements, fixation devices or additional equipment, e.g. rotary axis.

As a standard, vacuum tables are equipped with one or two vacuum pumps from Becker company, featuring efficiency of 250 m³/h. This solution brings both high performance and low noise emission.

Large area milling machines are always executed in configuration with travelling gantry, with double-sided drive, servomotors and electronic compensation unit of the gantry angle.

Kimla company manufactures milling machines not only in standard version, but also in a special version with pneumatic conveyor, with automatic loading and automatic unloading.

Large Area Milling Machine

BASIC OPTIONS	
Work area dimensions* (mm)	Width (mm) 1000, 1300, 1500, 1700, 2100, 2600, 3100
	Length (mm) 1500, 2000, 2100, 2500, 3000, 3100, 4100, 5100, 6100, 7100, 8100, 10100
Spindles	Z axis range (mm) 200, 300, 400, 500, 600, 700
	24 000 rpm 4.0kW, 7.0kW, 9kW, 12kW, 14kW, 16kW, 18kW
	40 000 rpm 5kW
	50 000 rpm 3kW
Control system	Digital AC Servo Drives
Automatic Tool Changing	no change linear storage rotating storage
Table type	T-slot table, negative pressure table, vacuum table, hybrid table
Automatic correction of the tool length Panel with control computer	
ADDITIONAL OPTIONS	
Oil mist cooling	Automatic
Heads	Active, oscillating knife
	Creasing
	Active, drag knife
	Knife for cutting film
	Writing
Scanner	touch, laser
Rotary axis	"B" on the table
	"B" inclined spindle
	"C" on the spindle (for angular units)
Pressure mats, Laser curtains, OHS fence, Presser foot, Suction foot, Pressure and suction foot, Dust extraction system, Basing system, Camera sighting system, Detail description printing system	

PROCESSED MATERIALS:

- non-ferrous metals: aluminium, copper, brass, etc;
- plastics;
- composite materials, Dibond, MDF;
- layered materials, furniture boards, laminates;
- solid wood and wood-based materials.

* - non-standard dimensions of the work area available