

SPECIAL MILLING MACHINE FOR LARGER WORKPIECE PROCESSING



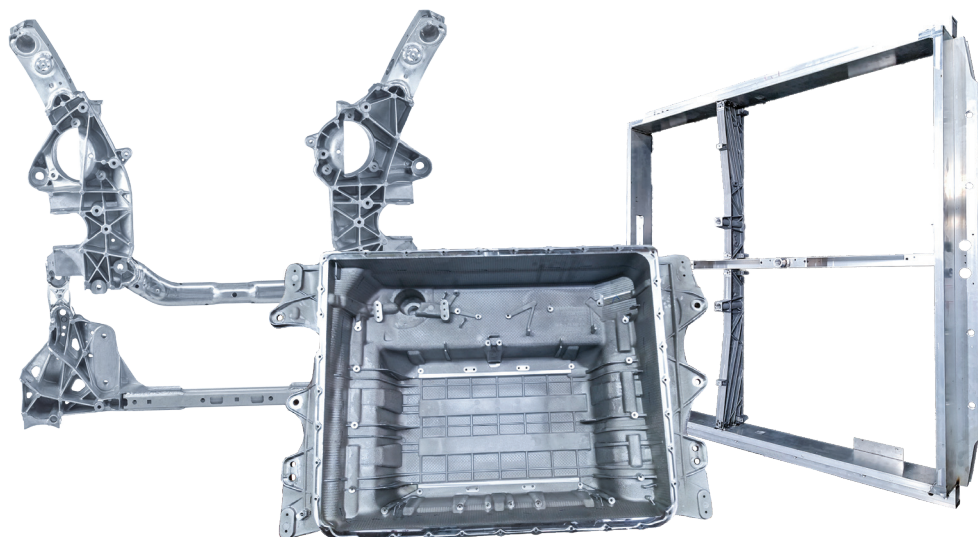
Best machining **solution**

Due to the rapidly developing automotive technology and new fuel sources, we have developed a special machine designed for simultaneous lateral machining of larger workpieces, e.g. battery housings. The portal design complimented with 2-spindles and 5-axis processing, allows for fast and quality machining of larger workpieces, therefore applicable for different types of industries.

WORKPIECE SPECTRUM



Special solution for the machining of larger workpieces, e.g.



Battery housing,

Battery trays,

Chassie,

other larger workpieces





The machine is designed for the mass production of workpieces, dimension 2000x1500mm and larger. With its two vertical spindles and five independent axes, it allows for a faster cycle time.

The machine is equipped with a horizontal clamping table mounted on a longitudinal slide - Y axis with a linear drive. On the fixed portal a transverse axis X is placed, with two vertical milling axes Z1 and Z2.

On each of the two Z-axes there is a special milling spindle with 2 tool holders mounted on a vertical rotary B-axis and a horizontal A-axis.

The milling spindles for face and end milling are arranged on the special spindle at a 180 degrees angle, and are positioned in use by swivelling the A-axis for the milling process.

Applicability:



Automotive industry



Aerospace industry



Commercial vehicles



Shipbuilding

TECHNICAL DATA



Base slide axis Y

Stroke	mm	2800
Drive	Digital CNC- Linear	

Transverse axis X1 and X2

Stroke	mm	400
Drive	Digital CNC-Linear	

Vertical axes Z1 and Z2

Stroke	mm	1000
--------	----	------

NC rotation axis (B axis)

With vertical axis of rotation, positioning accuracy +/-3.0".
Transmission via harmonic drive, with digital CNC drive

NC rotation axis (A axis)

With horizontal axis of rotation, positioning accuracy +/-3.0".
Transmission via harmonic drive, with digital CNC drive

Workspace

Workpiece diameter	mm	1400
Workpiece length	mm	1800

Milling unit with 2 milling adapters

Type of Coupling	2x HSK-A	63
(per Spindle) Max. Power	kW	16
Max. RPM	U/min	14.000
Max. Torque	Nm	28

Controls SIEMENS 840D with OP012

Cooling system Dry processing

Lubrication Self regulated pump

Quantity	l/min	6
Pump pressure	bar	27
Power	kW	3
Tank volume	l	40

Machine data Weight	kg	11.600
Height	mm	4400
Width	mm	2800
Length	mm	5500

The technical data may vary due to the specific requirements of the customer.

PRESENT:

GERMANY

CZECH REPUBLIC

USA

BRAZIL

TURKEY

FRANCE

SLOVAKIA

ARGENTINA

SOUTH AFRICA

CHINA