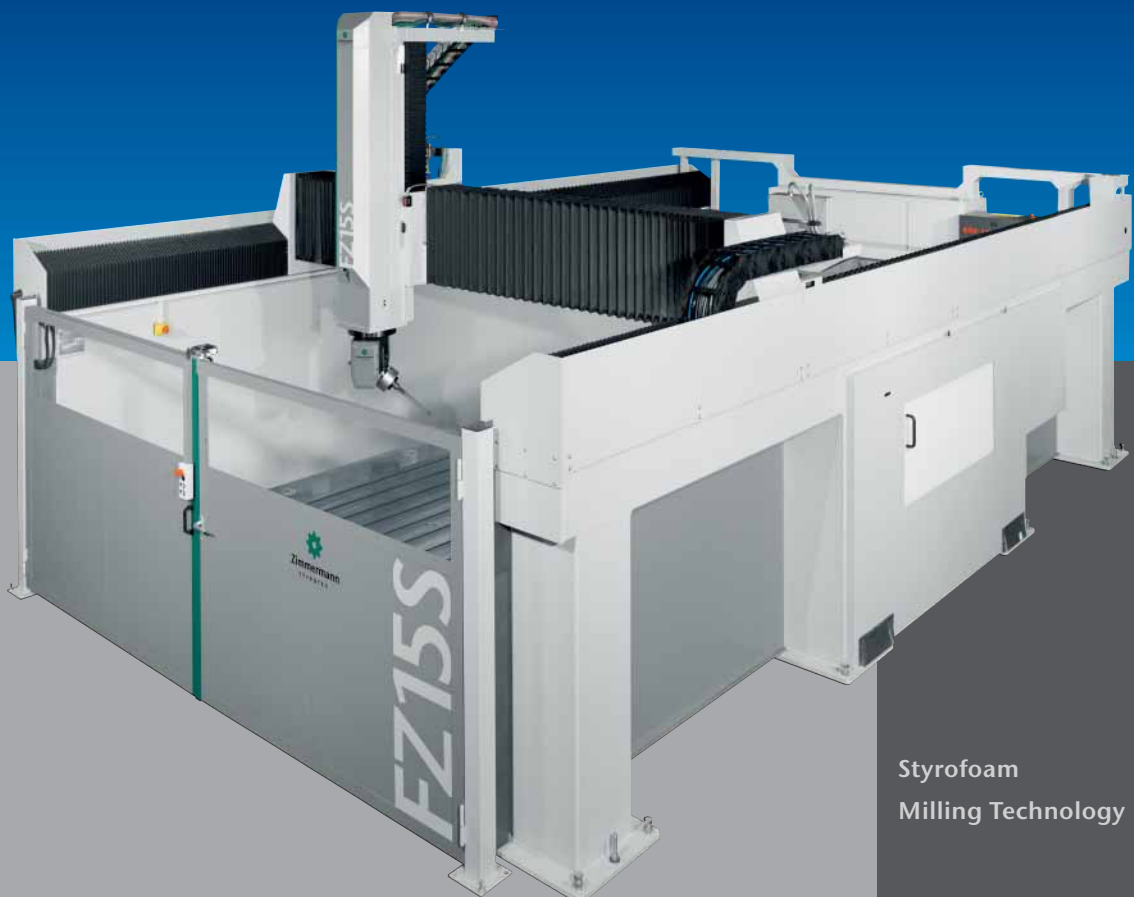




Zimmermann
STYROTEC

CNC Portal Milling Machine

FZ 15



Styrofoam
Milling Technology

FZ 15

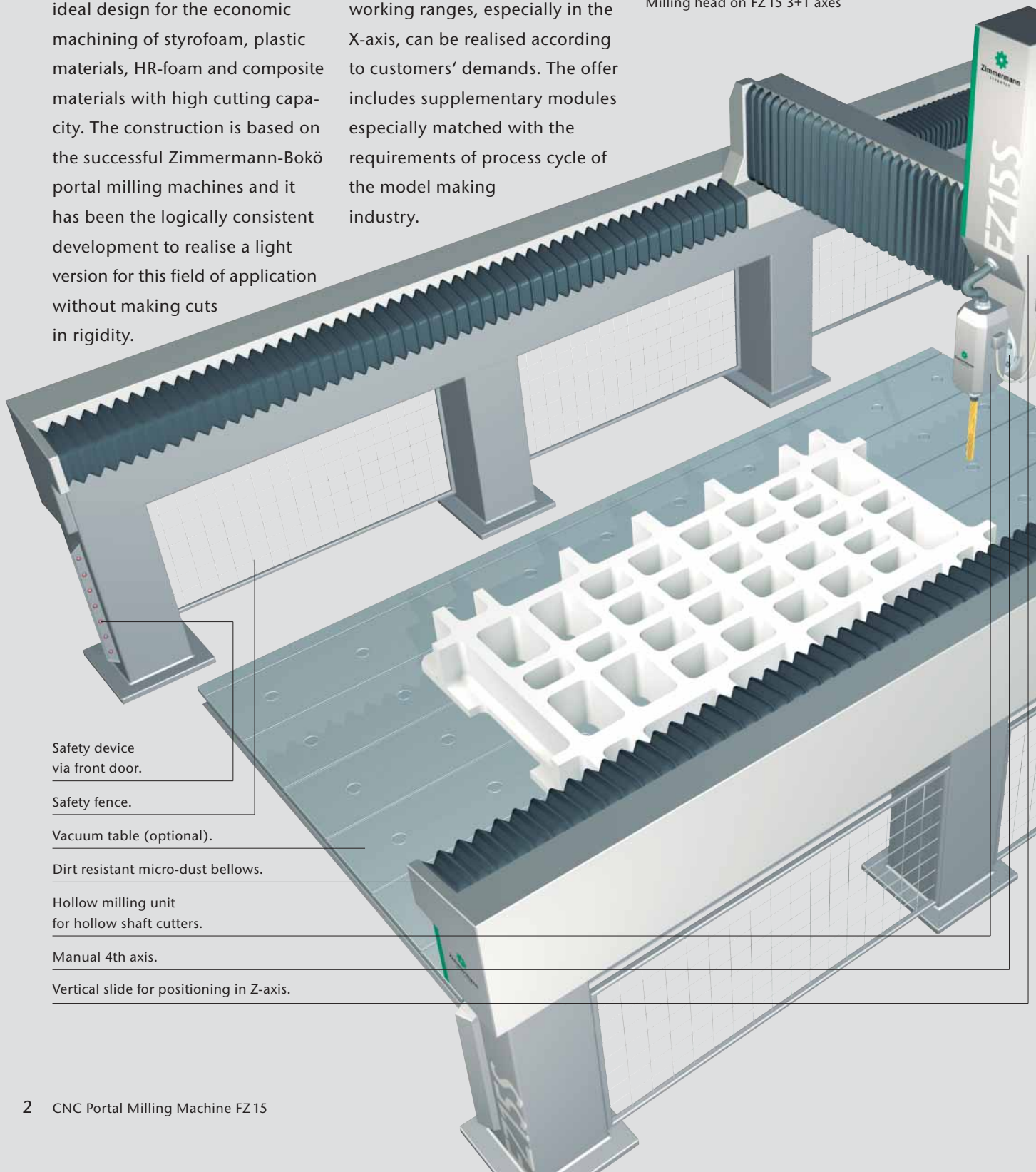
Light and dynamic gantry milling machine for styrofoam and plastic materials

Special demands need special solutions. For the modern pattern making shop this machine is the ideal design for the economic machining of styrofoam, plastic materials, HR-foam and composite materials with high cutting capacity. The construction is based on the successful Zimmermann-Bokö portal milling machines and it has been the logically consistent development to realise a light version for this field of application without making cuts in rigidity.

The result is a highly dynamic milling machine. Due to the modular machine concept other working ranges, especially in the X-axis, can be realised according to customers' demands. The offer includes supplementary modules especially matched with the requirements of process cycle of the model making industry.



Milling head on FZ 15 3+1 axes



Safety device via front door.

Safety fence.

Vacuum table (optional).

Dirt resistant micro-dust bellows.

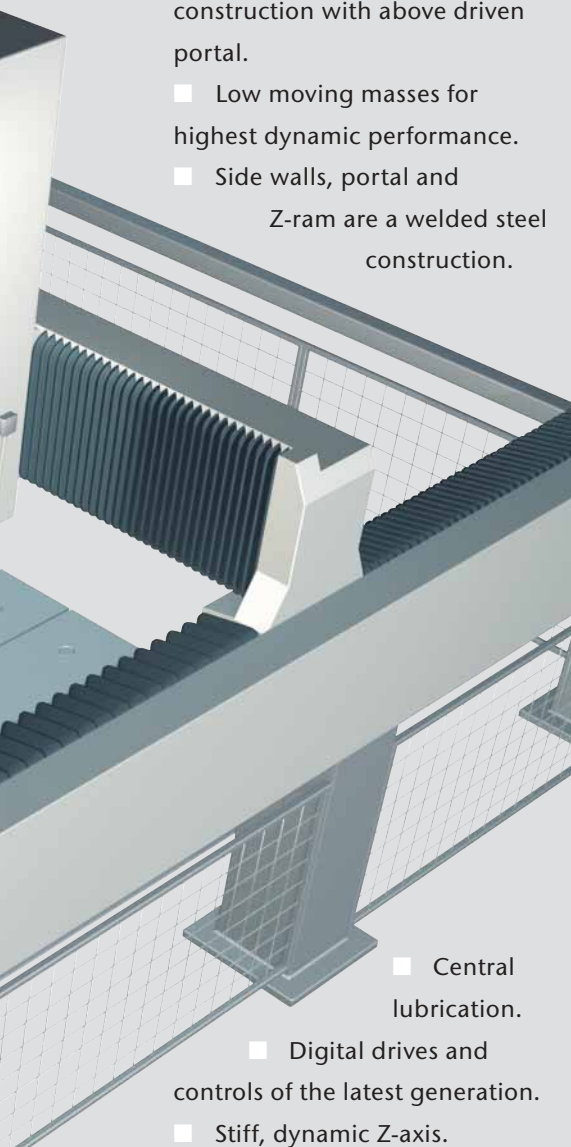
Hollow milling unit for hollow shaft cutters.

Manual 4th axis.

Vertical slide for positioning in Z-axis.

Technical description

- Perfectly designed for the cutting of styrofoam, plastic materials, HR-foam and composite materials.
- All drives and guides are located overhead, outside the areas with direct contact to dust and dirt.
- Stable and rigid gantry type construction with above driven portal.
- Low moving masses for highest dynamic performance.
- Side walls, portal and Z-ram are a welded steel construction.



Central lubrication.

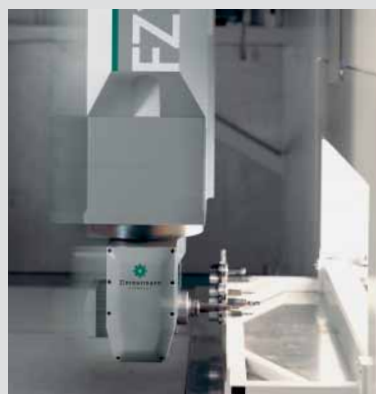
- Digital drives and controls of the latest generation.
- Stiff, dynamic Z-axis.
- Versatile table design.
- Accessories as special software, extraction systems, vacuum clamping tables and remote diagnostics.
- Various makes and types of numerical controls are possible (Fidia, Heidenhain, Siemens etc.).

FZ 15 Technical Data

Technical data	FZ 15		
Working zone			
X-axis	4 000 – 6 000 mm		
Y-axis	2 700 – 3 200 mm		
Z-axis	1 000 – 1 500 mm		
Clamping table			
Length	4 000 – 6 000 mm		
Width	2 700 – 3 200 mm		
Height	150 – 300 mm		
Feed drives			
Feed (depending on the contour of the workpiece)	0 – 30 000 mm/min.		
Milling head	standard	options	5-axes
Max. spindle power	4,4 kW	8,0 kW	15 kW
Max. spindle speed	6 000 min ⁻¹	12 000 min ⁻¹	22 000 min ⁻¹
Tool holder	hollow cutters		hollow cutters
Working range A-axis	±90° (man.)		±90° (man.)
Working range C-axis			±115°
Tool clamping	manual	manual	spring clamp

Options	3+1 axes	5-axes
High performance extraction system	<input type="checkbox"/>	<input type="checkbox"/>
Grey cast table	<input type="checkbox"/>	<input type="checkbox"/>
Vacuum clamping table	<input type="checkbox"/>	<input type="checkbox"/>
Remote diagnosis via SMS	<input type="checkbox"/>	<input type="checkbox"/>
Special painting	<input type="checkbox"/>	<input type="checkbox"/>
Direct way measuring systems	<input type="checkbox"/>	<input type="checkbox"/>
Angular head	<input type="checkbox"/>	<input type="checkbox"/>
HF-spindle	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Adapter bell	<input type="checkbox"/>	<input type="checkbox"/>
Side walls filled with fiber reinforced concrete	<input type="checkbox"/>	<input type="checkbox"/>
Tool changer	<input type="checkbox"/>	<input type="checkbox"/>

■ Standard □ Option



Tool changer



Adapter bell on FZ 15 5-axes



Zimmermann
B O K Ö

High Performance
Milling Technology



Zimmermann
S T Y R O T E C

Styrofoam
Milling Technology



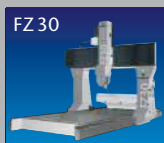
Zimmermann
C O N V E N T I O N A L

Machines for the
Model and Mould
Making Industry



A modern pattern making shop needs innovative, supreme quality and extremely economical milling technologies. Zimmermann-Bokö produces highly developed portal milling machines which fully meet these requirements.

For the machining of styrofoam, plastic materials and other foams with high cutting capacity Zimmermann-Styrotec presents most attractive machines for every targeted customer demand.



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