

# TOS VALUE FS





## General characteristics

The machine is designed for machining of heavy, large-sized and form-complicated workpieces, for example: molds or swages.

Machine base consists of a separate longitudinal bed and the separate column. On the longitudinal axis of the bed in the direction "X" moves the working table. The guide surfaces of the column in vertical axis "Y" moves the spindle console. In the console, in the transverse direction moves headstock in the axis "Z".

The versatility of the machine, especially from the view of possible selection of spindle heads, allows maximum machine adapting for the technological requirements. There is optimal way to select type of particular milling head ready for machining of specific operation with possible utilization of maximal level of cutting conditions and utilization of machine working area. High power and torque of the spindle and spindle heads with mechanical spindle drive is applied during roughing operations.



## Main benefits

- Substructure weldments spilled by special mixture based on concrete
- Machining from 4 sides
- Up to 5 controlled axis
- High torque and revolutions (up to 6 000 rev/min)
- High rigidity and damping character
- Durability and reliability

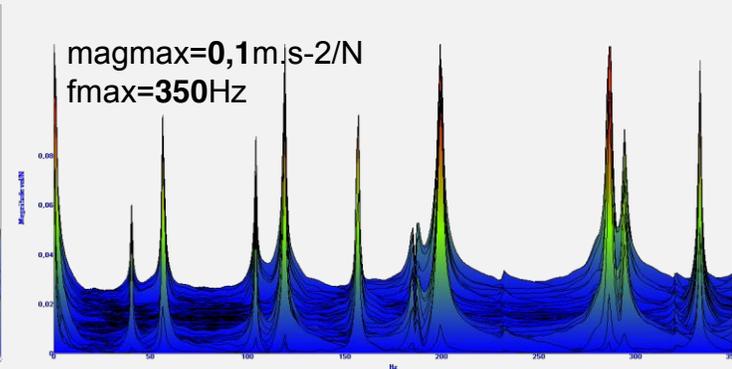
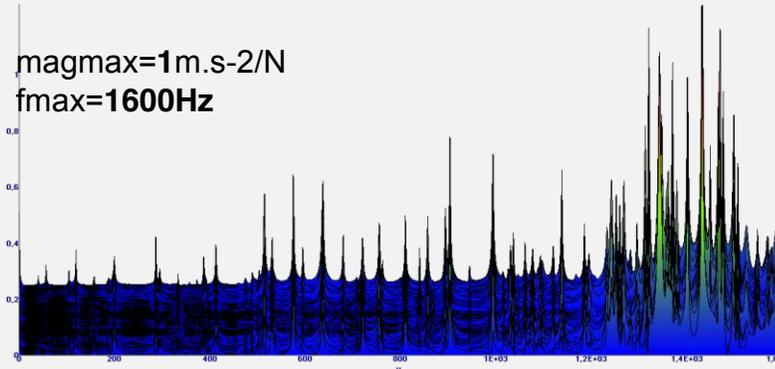
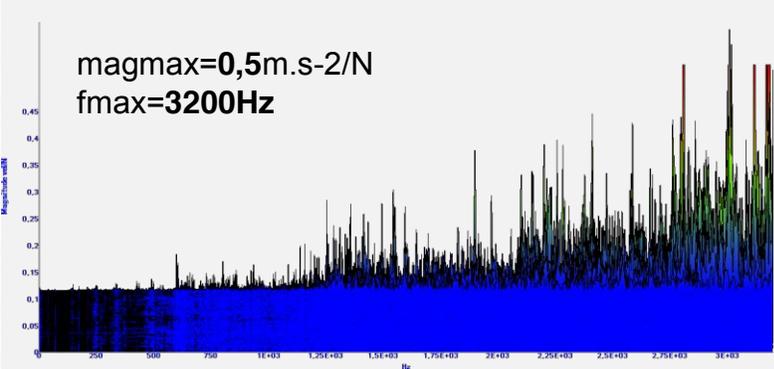


## Technical parametres

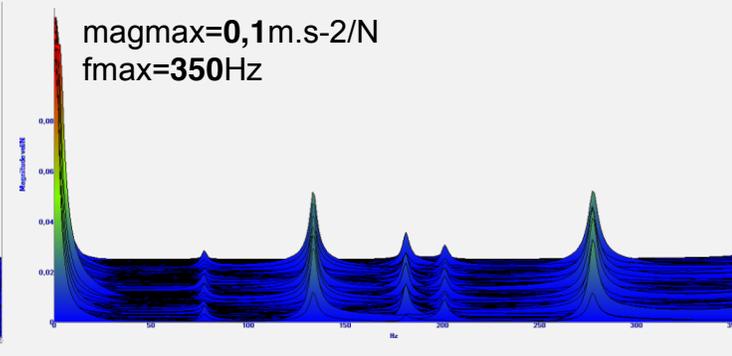
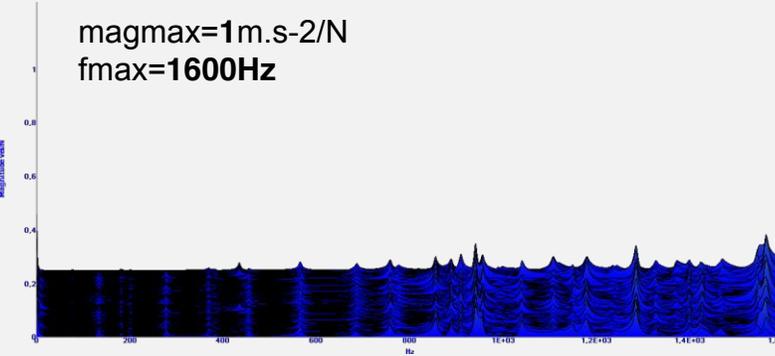
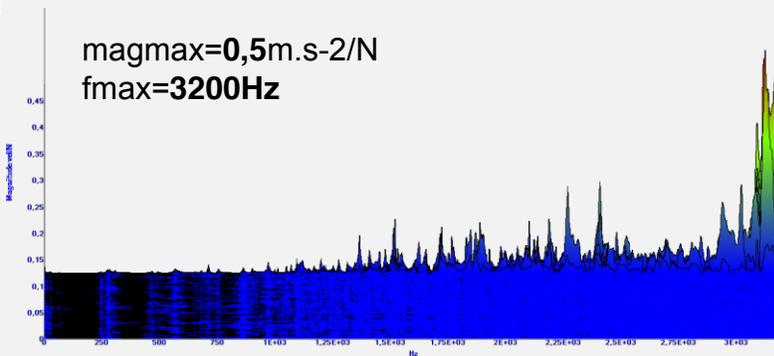
<b>Machine type</b>		<b>FS 125(150)</b>
<b>Parameters</b>		
<b>Guideways</b>		Roller type
<b>Spindle taper / tool clamping</b>		ISO 50 / DIN
<b>Power of main drive</b>	kW	30 (37)
<b>Max. torque/ max. spindle speed</b>	Nm / rpm	2000/4000; 1400/6000
<b>Max. axial force X, Y, Z</b>	N	20000
<b>Spindle head</b>		VK; VO
<b>Cross travel of headstock Z</b>	mm	1250; 1500
<b>Vertical travel of headstock Y</b>	mm	1500; 2000
<b>Longitudinal travel of table X</b>	mm	3000; 4000; 5000; 6000
<b>Rapid feed X, Y, Z</b>	m/min	30, 30, 30
<b>Table length</b>	mm	2000; 3000; 4000; 5000
<b>Table width</b>	mm	1000; 1250
<b>Table height</b>	mm	600 - 700
<b>Max. table load</b>	t	3 - 8 (according to table size)
<b>Tool magazine with ATC</b>		Chain type for 40 tools
<b>External tool cooling</b>		5bar/60 l.min
<b>Tool cooling through the spindle</b>		20bar/30 l.min



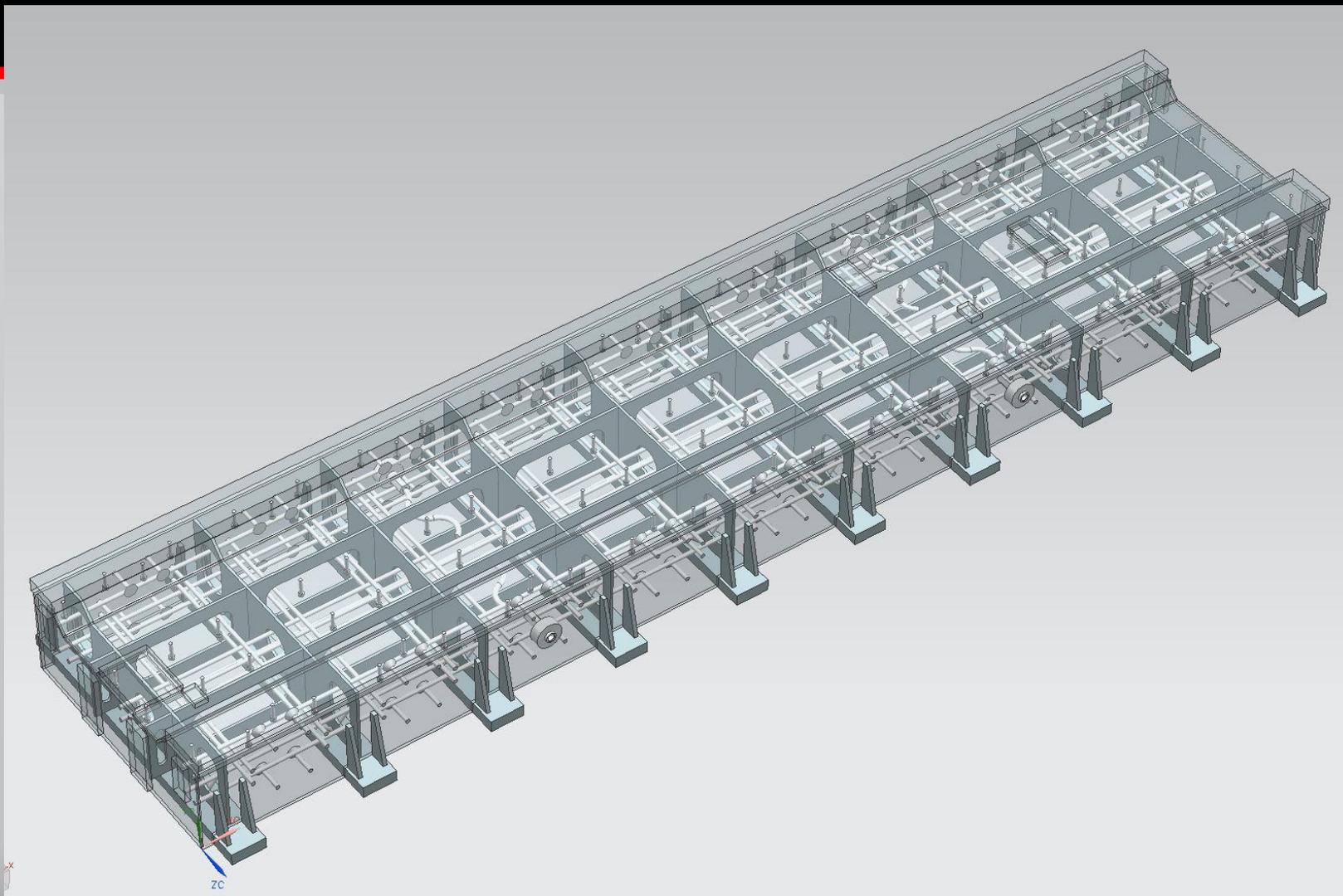
# Machine structure



## C A S T I N G



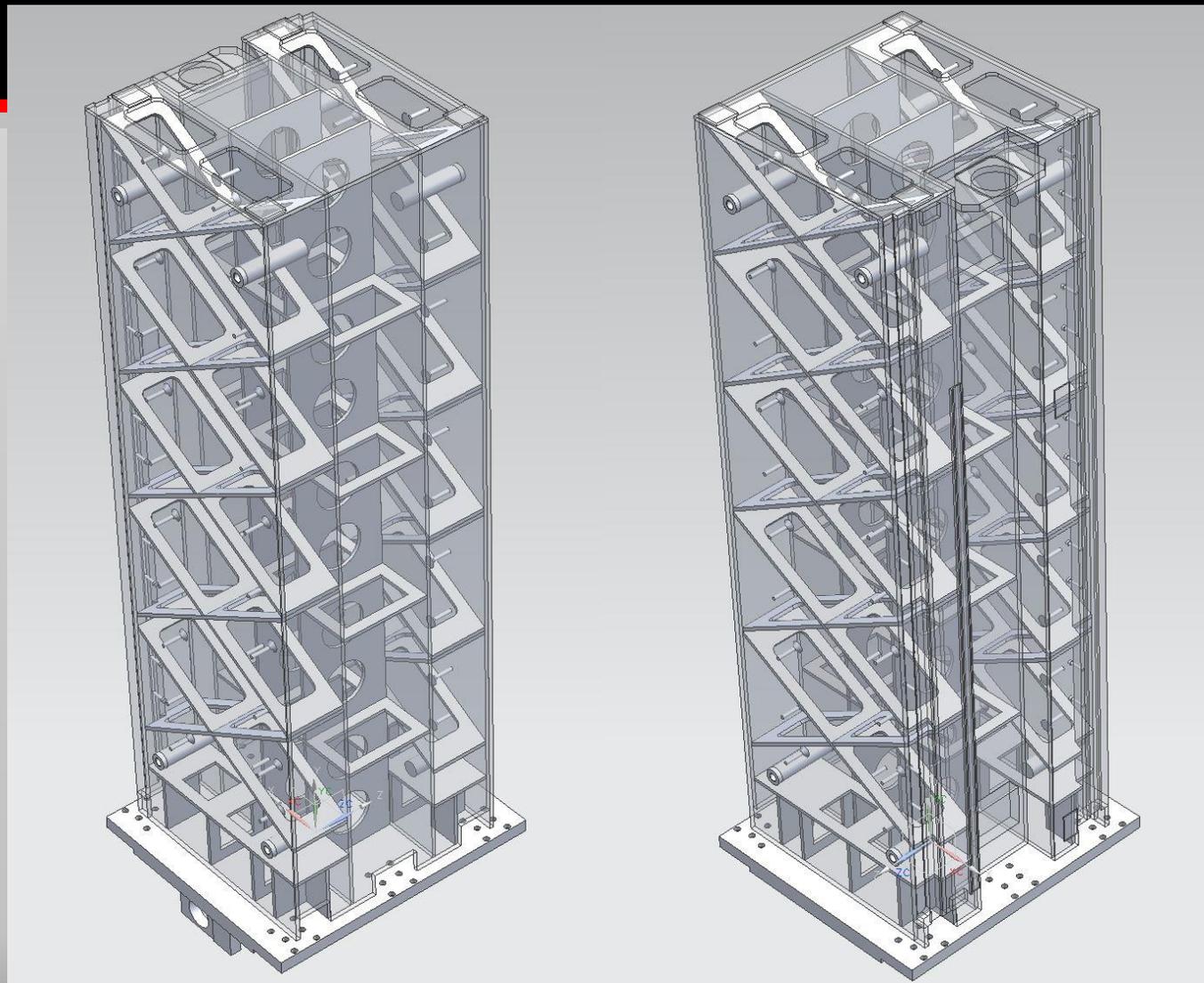
## S U B S T R U C T U R E D W E L D M E N T F I L L E D B Y C O N C R E T E





FS (Q) 125/150

# Substructured weldment of column



Thank you for your attention