

# FS

## SPECIAL MILLING MACHINE



### BASIC TECHNICAL SPECIFICATIONS

Power of main drive:	150 kW
Maximum diameter of milling cutter:	6,000 mm


**PURPOSE**

The FS Special Milling Machine is designed for heavy-duty milling of webs of crank-throws used in vessel engines crankshafts.

The machine is capable of the following machining operations:-

- Rough and fine milling of inner surfaces of crank-throw webs
- Rough milling of crank-throw pins

The entire machining process is controlled by CNC system and proprietary technological program.


**MAIN FEATURES**

- Machined crank-throws are clamped in a fixture installed on a rotary and movable table.
- Milling cutter is equipped with a number of easily replaceable cassettes with cutting tips.
- Milling cutter is provided with vibration dampers increasing quality of machined surfaces.
- Double kinetic chain of milling cutter drive effectively reduces possible torque oscillations increasing life time of driving gears.
- Efficient system for continuous chip disposal.


**TECHNICAL SPECIFICATIONS**

MODEL	FS 550 CNC	
<b>Milling cutter</b>		
Diameter of milling cutter	mm	5,500 / 5,000 <sup>(1)</sup> / 6,000 <sup>(1)</sup>
Maximum radial depth of milling	mm	2,000
Width of milling cutter	mm	130
Range of continuously variable rotation rates of milling cutter	rpm	0.5 to 10
Vertical travel of milling cutter	mm	400
Power of main drive of milling cutter	kW	2 × 75
<b>Rotary table</b>		
Size of table	mm	2,500 × 3,000
Travel of table slide base along bed	mm	3,000
Range of travel rates of table slide	mm/min	1 to 10,000
Range of table rotation rates for milling	rpm	0.005 to 3
Maximum load of table	× 10 kN	30
<sup>(1)</sup> Optional execution.		

Some of the above data can be altered to meet the customer requirements.

Above data is subject to changes due to product development, without prior notice.