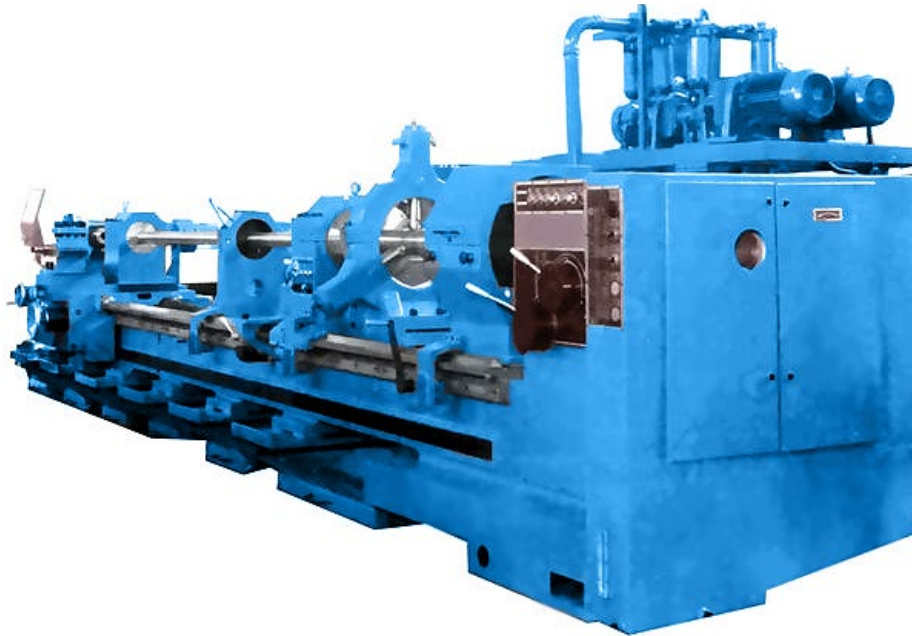


WR3 250

HORIZONTAL DEEP DRILLING MACHINE



BASIC PARAMETERS

Max. torque on spindle	130,000 Nm
Max. weight of workpiece clamped in rests	100 tonnes
Max. length of drilled holes	12,000 mm
Max. diameter of drilled holes	1,800 mm

PURPOSE

The WR3 250 horizontal drilling machine is a special-purpose machine tool used in processes that require deep hole drilling using drilling and boring with high-efficiency specialized tools.

CONTROL SYSTEM

The application of the state-of-the-art CNC system allows for automatic, precise and efficient workpiece machining according to a program.

MAIN FEATURES

- 2-guideway bed made from cast iron of enhanced mechanical properties, standardized, heavily ribbed, rested on foundation along its entire length
- Bed guideways hardened to 45 HRC
- Drilling tailstock travels along two guideways lined with an anti-friction material and assisted by central lubrication system that guarantee precise guidance
- Headstock body made from cast iron of enhanced mechanical properties
- Spindle rested on bearings with enhanced mechanical properties
- All shafts and gears carburized, hardened and ground
- Tool coolant supply head installed on an independent floor
- Dampening rests for tool bars to compensate for vibrations during drilling
- Tool liquid cooling system with a 15,000 l tank

STANDARD EXECUTION

- Swing over bed $\varnothing 2,500$ mm
- Drilling length 12,000 mm
- Main drive motor power 150 kW
- Range of continuously variable drilled workpiece spindle rotation rates 0.5 to 160 rpm
- Power supply 3x400 V / 50 Hz
- Rack-and-pinion transmission for Z-axis travel
- Central lubrication system
- Drilling tailstock with fixed tool
- Tool coolant pressure head carriage with housing
- Control panel
- Adjusting wedges for leveling and foundation bolts
- CE mark
- Operations and maintenance manuals
- CNC operation and programming documentation

OPTIONAL EXECUTION

- Drilling tailstock with live tool
- Other according to agreement

ADDITIONAL EQUIPMENT

- Steady rest $\varnothing 250$ to 650 mm
- Steady rest $\varnothing 600$ to 1,000 mm
- Steady rest $\varnothing 1,000$ to 1,800 mm
- Steady rest $\varnothing 700$ to 1,100 mm
- Dampening rest for the tool bar
- Turning carriage (manual)



BASIC TECHNICAL SPECIFICATION

TECHNICAL SPECIFICATION WR3 250

Model	WR3 250	
Kod obrabiarki		
Range of diameters of drilled holes	Ø mm	250 to 1,400
Max. length of drilled holes	mm	12,000
Swing over bed	Ø mm	2,500
Max. weight of workpiece clamped:		
• in 1 rest	kg	80,000
• in 2 rests	kg	100,000
• in chuck	kg	4,000
Headstock		
Range of continuously variable rotation rates	rpm	0.5 to 160
Number of ranges of rotation rates	quantity	3
Power of main drive motor	kW	150
Max. torque on spindle	Nm	130,000
Drilling tailstock with fixed tool		
Longitudinal travel	mm	Drilling length
Z-axis drive		Rack-and-pinion
Max. axial force	N	200,000
Max. hole diameter for drilling bar	mm	540
Rapid feed rate	mm/min	4,000
Range of feed rates	mm/min	3 to 1,000
Drilling tailstock with live tool *		
Range of continuously variable rotation rates	rpm	50 to 200
Number of ranges of rotation rates	quantity	3
Power of main drive motor	kW	100
Max. torque on spindle	Nm	80,000
Longitudinal travel	mm	Drilling length
Z-axis travel drive		Rack-and-pinion
Max. axial force	N	200,000
Max. hole diameter for drilling bar	mm	304.8
Rapid feed	mm/min	4,000
Range of feed rates	mm/min	3 to 1,000
* optional execution	© RAFAMET S.A. – All Rights Reserved	