

SCHNEEBERGER - DMR GEMINI - 2007



Manufacturer: **SCHNEEBERGER**

Type: **DMR GEMINI**

Year of manufacturing: **2007**

Parameters: **5-axis CNC tool grinder GEMINY-DMR Gemini 71 DMR**

Description:

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5-axis CNC tool grinder GEMINY-DMR Gemini 71 DMR + profile grinder

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Year of manufacture: 2007

Technical data of grinders:

X-axis - longitudinal slide, stroke 360 mm

Y-axis - vertical slide, stroke 270 mm

Z-axis - transverse slide, stroke 270mm

A-axis -axis for grinding on round, max. rpm 800 rpm

C-axis - grinding spindle, 370° rotation, 15 kW, adjustable speed 500-1000 rpm

Grinding machine equipment:

Control system: Fanuc 310iA5

Standard software for the production and grinding of tools for mechanical engineering

Automatic central lubrication

Automatic fire extinguishing system

Hydraulic workpiece clamping

Electrostatic vapor separator

Measuring probes

Hydraulic workpiece clamping

In addition to the standard equipment, both grinders also have special accessories:

-UPP-Ultra Precision Package-linear rulers 0.1 micron for the X, Y axes

-grinding spindle motor 15 kW

-OPC-Optical Profile Control-camera on the grinding spindle-integrated video coordinate system in the machine for measuring the profile of pre-ground and ground tools.

-QUINTO- profile tools dxQ /CAD/CAM/-special program for grinding profile tools.

This program, together with OPC, allows you to produce PROFILE TOOLS on grinders - it combines two types of machines into one: a profile grinder /e.g. PTW, AMADA/ and a 5-axis CNC tool grinder, which greatly expands the possibilities of using these machines.

-Round grinding machine - a fixture for round grinding with a continuously programmable servo motor.

With this software and cameras, we have a classic 5-axis CNC grinder + profile grinder and we have greatly expanded our production capabilities and the ability to reach a much larger range of customers.

So we have two grinders in one machine - a toolmaker 5-axis CNC grinder and a profile grinder.