

SCHNEEBERGER - DMR GEMINI - 2005



Manufacturer: **SCHNEEBERGER**

Type: **DMR GEMINI**

Year of manufacturing: **2005**

Parameters: **5-axis CNC tool grinder GEMINY-DMR
Geminy 51 DMR**

Description:

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5-axis CNC tool grinder GEMINY-DMR Geminy 51 DMR +
profile grinder

Manufacturer: SCHNEEBERGER

Year of manufacture: 2005

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.