

RADIAL CAM GRINDER BRV-300 CNC



 **BRV-300**
CNC

The radial cam grinder is built from top quality components from renowned companies (Yaskawa, Schneeburger, GMN). The CBN/DIA grinding tool is clamped in a hydraulic clamp, which ensures a high stiffness (rigidity) of the tool bearing together with HSK40. The uniqueness of the grinder and a conceptually specifically focused control system (VÚTS) lies in the possibility of using the milling cutters mounted in the hydraulic clamp. Removing the necessary hardened allowance on the contour by milling, will shorten the production time of the grounded cam considerably. The final cam grinding then takes place with grinding tools on an allowance of several hundredths of a millimeter. High accuracy is achieved by possibility to analyze the cam dimensional contour without removing the workpiece from the machine.

Machine parameters

Dimensions (W x D x H):	1200 x 1200 x 1600 [mm]
Weight:	2300 [kg]
Machine frame:	Grey cast iron / Schneeburger MINERALGUSSTECHNIK
Max. cam diameter:	500 [mm] (turned diameter)
Max. cam weight:	20 [kg]
Spindle:	GMN HV-P 100-30000/9
Spindle speed:	30000 [min ⁻¹]
Spindle power:	7,5 / 9 [kW]
Tool clamping:	HSK40 (manual exchange)

Machine axes

C- Rotary axis:	Yaskawa Direct Drive SGMCS-17D
V- Linear Axis:	Schneeburger UTC15 – 300/5 [mm, mm/rev]
V- axis drive:	Yaskawa SGMGV-09D
Z- positioning axis:	Drill Matic – 100/5 [mm, mm/rev]
Z- axis drive:	Yaskawa SGMGV-09D

Electrical box

Dimensions (W x D x H):	1000 x 400 x 1400 [mm]
Weight:	200 [kg]
HW and SW control system:	HW Yaskawa MP2200/2310, SW VÚTS
Drives:	Yaskawa
Frequency inverter:	Yaskawa A1000

Necessary additional attachment

Tool cooling:	Losma DTE 030 aggregate
Spindle cooling:	GMN Chilly 15-S aggregate
Spindle oil mist lubrication:	GMN Prelub PP aggregate
Assembly dimensions (W x D x H):	1200 x 1000 x 1200 [mm]

