

Technical specification

PG 700 CNC

Axis	Stroke	Resolution	Rapid traverse	Pos. Accuracy
X	700 mm	0.0001 mm	10 m/sec	1.2 μ m
Y	300 mm	0.0001 mm	10 m/sec	1.2 μ m
Z	300 mm	0.0001 mm	10 m/sec	1.2 μ m
B	∞	0.0001 °	37.5 Rpm	± 1.8 "
C	± 95 °	0.0001 °	2160 °/min	± 1.8 "

All axis equipped with external encoders from Heidenhain.

Workhead, B-axis

Clamping interface	HSK-100 or ISO-50
Max cutter diameter	$\varnothing 500$ mm

Grinding spindle

Spindle speed	0-25000 rpm
Spindle power	43 kW
Max grinding wheel	$\varnothing 300$ mm

CNC Control

Fanuc 30iMB

Measuring probe (Renishaw MP 250)

Touch trigger	Strain-gauged techn.
Unidirectional repeatability	0.25 μ m 2 σ
3D-lobing in X,Y and Z	± 1 μ m
Stylus trigger force	0.08N

Dressing unit

Dresser speed	4000 rpm
Maximum dresser wheel	$\varnothing 150$ mm