

## High Speed Tooling



### High Performance High Speed Tooling

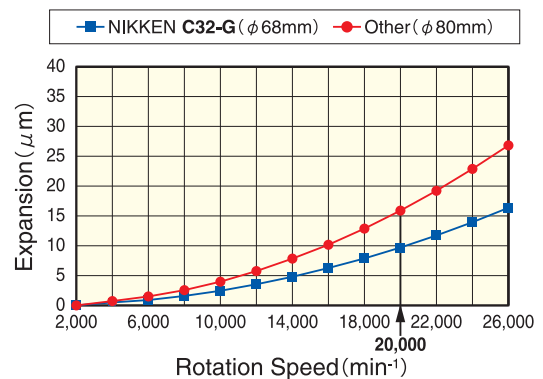
Our newest high-speed tooling lines are ready for today's most tenacious high-speed machining. All of these pre-balanced toolholders will give you the tools performance you need to get up to speed. These tools have completely ground external surfaces including the nut. This eliminates any vibration due to wind noise.

### Dynamic Balancing

All Nikken high speed toolholders are balanced on a high performance balancing machine to suit the appropriate speed and G rating

### Gripping Torque Data

The graph shows the comparison for the expansion for the nose piece between Nikken's C 1 1/4 - G milling chuck nose ring (68mmOD) and the competitors copied chuck nose (80mmOD) ring at high speed rotation. According to the graph, the difference of the expansion at 20,000 rpm will be 6 microns, this means the axial tightening length is reduced by approx. 0.2mm which is equivalent of 400Nm gripping torque reduction.



### Available High Speed Products

Nikken's High Speed products are available in all tapers for milling chucks, slim chucks (SK), MMC (Insider), and VC Holders.

## GH Clutch Wrench

Part Number	Milling Chuck	Slim Chuck
GH-6	-	GSK6-P
GH10	-	GSK10-P
GH12	C12-G	-
GH16	C16-G	GSK16-P
GH20	C3/4-G	-
GH25	C1-G	GSK25-P
GH32S	C32-G (Ring OD:φ62mm)	-
GH32	C1 1/4-G	-



GH Clutch Wrench with switchable lever