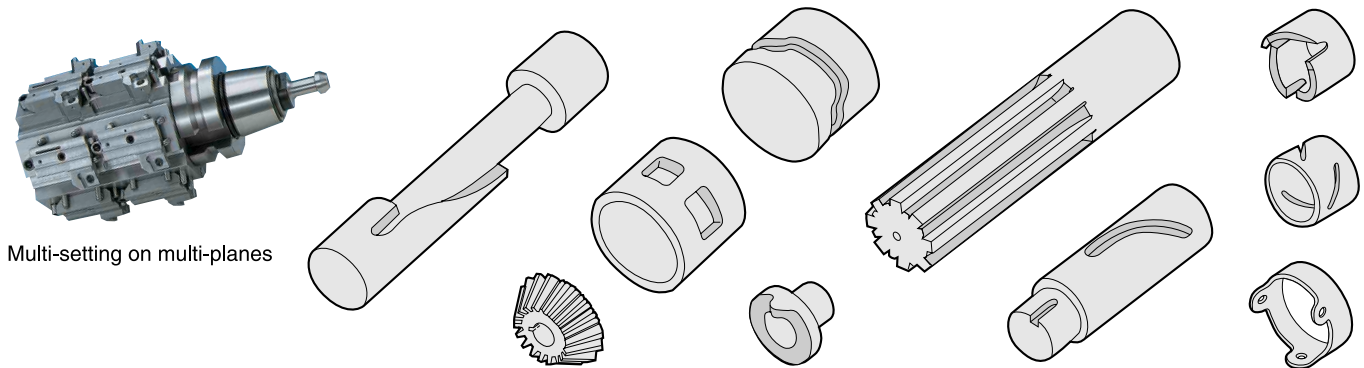


CNC ROTARY TABLE for Full Automation

*Worldwide Field-proven NIKKEN CNC Rotary Table.
Consequently and finally, NIKKEN Carbide Worm Screw System.*



Work Sample Please see for more work samples. P.37 and P.46

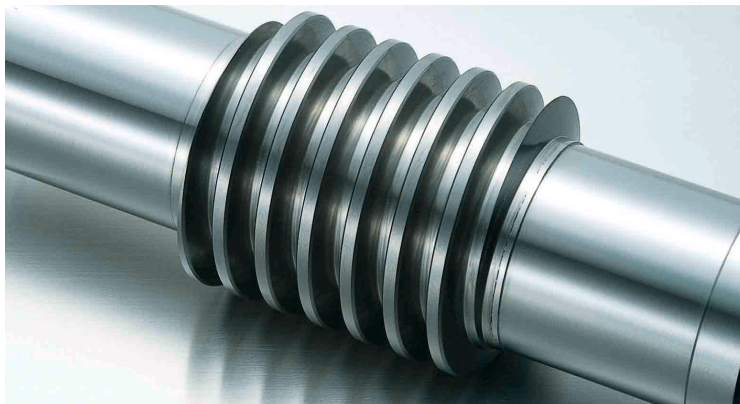


NIKKEN CARBIDE WORM SYSTEM

Anti-Wearing, High Rigidity and High Speed Rotation

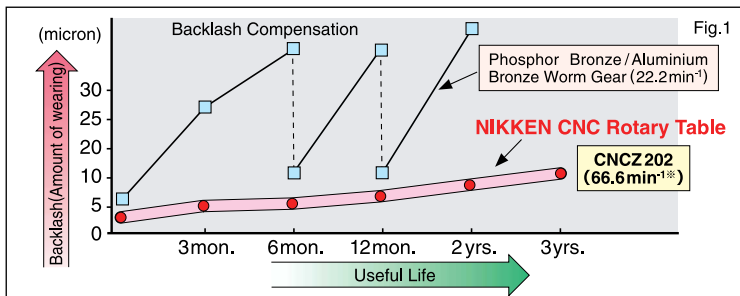
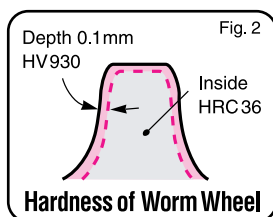
Carbide Worm Screw

Carbide Worm Screw, hard and strong against high speed rotation, is used. (Photo at right hand side) [Material : V grade Carbide: High anti-wearing and tough quality] Ultra heavy duty, maintaining the high accuracy semi-permanently. Comparing with the traditional combination of worm system (phosphor bronze, aluminium bronze worm wheel and steel worm screw), wearing is largely reduced and table is usable for much more years, resulting in great cost-down. For better impact capability, the special alloy steel worm screw is used for the worm system of the small tooth module.



Worm Wheel

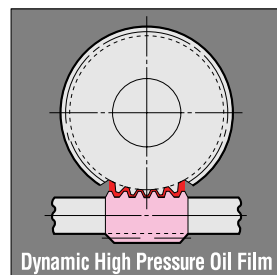
Material is special NIKKEN order made steel. Specially hardened and furthermore ion-nitrided on the tooth. Thus, the problem of the sliding friction is solved. The hardness of the tooth surface and inside is shown at right hand side.



※ Rotation speed of motor = 3,000min⁻¹

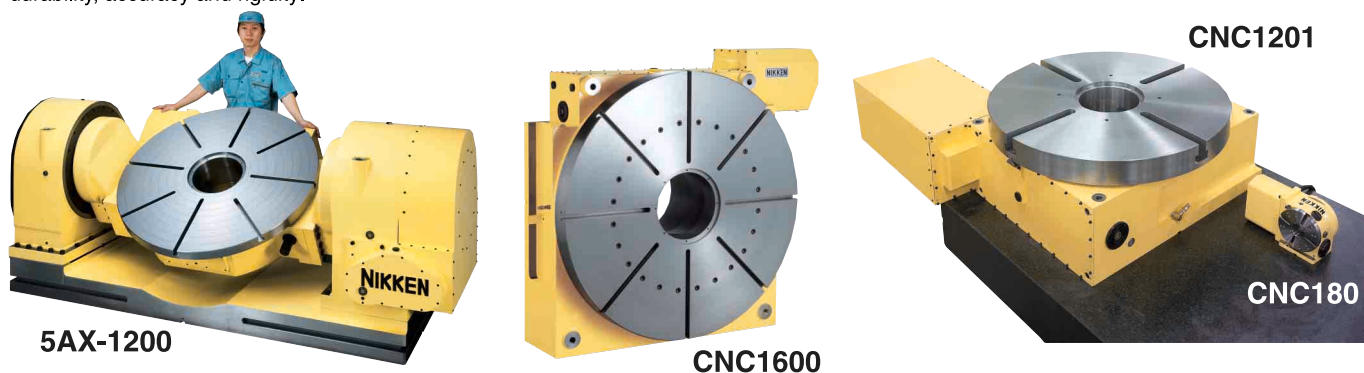
Dynamic High Pressure Oil Film Effect for High Speed CNC Rotary Table Z Series

NIKKEN'S experience in gear cutting and study of the pressure angle of worm screw carry out the table's higher rotation speed (66.6min⁻¹※). The rotational speed of the screw creates the pressure to force the oil between the gears preventing any metal-to-metal contact, eliminating gear wear and producing high rigidity and durability.



Large size rotary tables are made a lineup

The large size rotary tables for the large size machine tool, the large size die mould, energy and air craft are made a lineup. P.11, P.29 The NIKKEN carbide worm system is installed in the rotary table with the super durability, accuracy and rigidity.



Turbine Blade

High Speed CNC Rotary Table Z series for high speed milling marked arrow.

