

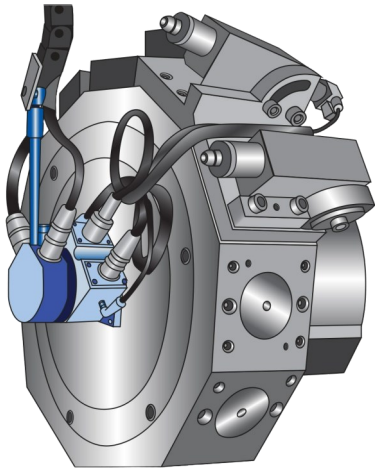
Product Line Card

High Speed Spindles by NSK America

As a distributor for NSK America Corp. we provide application support, sales and service for all of their high speed motors, spindles and micro-grinders.

NSK offers the latest technology in high speed milling and drilling spindles, high speed precision hand tools and more.

Our applications engineering department can assist you with select the correct solution for your application.



Rotary Coupling for Turret Machines

The Rotary Coupling is a cable management system.

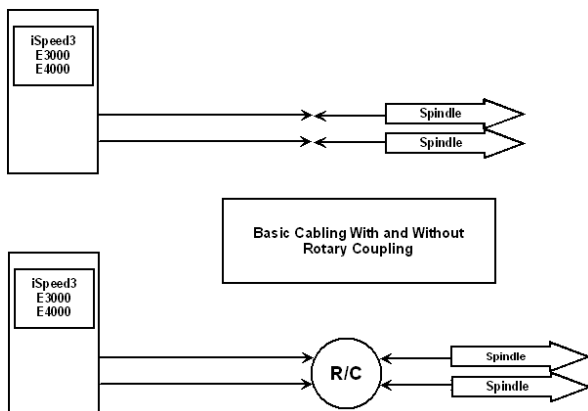
High Speed Electric spindles can be mounted on a turret without tangling the cables.

Available for up to (4) NSK Spindles: E3000, iSpeed3 or HES

Or (1) Spindle E4000

Versions Also Available for:

- ◆ Servo driven spindles up to 2.0hp with 10mm capacity spindles
- ◆ Multi-spindles or high horsepower custom Rotary Couplings available on request



Finley Precision Spindles

At Futureswiss, we are proud to offer Finley Spindles. These durable, high quality, precision spindles are produced at our facility in Bristol, CT.

Every product is designed for long life and a wide range of functionality. All Finley Spindles are fully serviceable to ensure a long life. We also offer a full line of accessories at competitive pricing.

Our Engineering Staff is experienced in multiple manufacturing industries and can help you find a solution that fits your requirements.



Series 36 Spindles and Motors

Series 36 Straight Spindle: 36mm Dia Spindle, Designed for high speed drilling, cutting and milling operations using standard ER - 16 collets, 10mm max capacity.

Series 36 AM Air Motor: Capable of 21,500 RPM with direct drive or Higher Torque/Lower RPM's with integral planetary gears. Gear train has been designed for long life with needle bearings inside each gear. Reversible motors also available.

Series 36 BD Belt Drive Spindle: Allows for belt drive configurations widely used with Servo motors.



Series 36 Right Angle Spindle: 36mm Dia Spindle. Easier to maneuver on the hard to reach operations without sacrificing area space. Standard ER - 16 collets, 10mm max. cap. Equipped with large hardened spiral bevel gears for long life and high torque transmission.

Series 36 AM-RA Air Motor: Capable of 14,000 RPM with direct drive or Higher Torque/Lower RPM's with integral planetary gears.

Series 36 BD-RA Right angle Belt driven Spindle: allows for belt drive configurations widely used with Servo motors.



Series 50 Spindles and Motors

Series 50 Straight Spindle: 50mm Dia Spindle, Designed for high speed drilling, cutting and milling operations using standard ER - 20 collets, 13mm max capacity.

Series 50 AM - Air Motor: Capable of 21,500 RPM with direct drive or Higher Torque/Lower RPM's with integral planetary gears. Gear train has been designed for long life with needle bearings inside each gear.

Series 50 BD Spindle: Allows for belt drive configurations widely used with Servo motors.



Series 36 and 50 Tool Change Spindles and Motors

Series 36 Tool Changer: Allows Remote collet release to interchange tooling automatically while giving you a compact design. 1C style collets, Max capacity 1/4 inch.

Series 36 TC-AM Air Motor: Capable of 21,500 RPM with direct drive or Higher Torque/Lower RPM's with integral planetary gears.

Series 36-TC-BD Belt Driven Tool Change Spindle: Allows for belt drive configurations widely used with Servo motors.

Series 50 Tool Change Spindle: 50mm Dia Spindle, allows remote collet release to interchange tooling automatically while giving you a compact design. 3C style collets, Max capacity 1/2 inch.

Series 50 TC-AM Tool Change Air motor: Capable of 21,500 RPM with direct drive or Higher Torque/Lower RPM's with integral planetary gears.

Series 50 TC-BD Belt Drive Spindle: Allows for belt drive configurations widely used with Servo motors.



Live Tooling

We are a distributor for a wide range of OEM style Machine driven live tooling manufactured to Close tolerance OEM specifications.

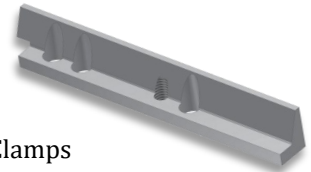
Live tools are pre-tested and warranted to meet or exceed OEM.

- | | |
|-----------|-----------|
| ◆ Tsugami | ◆ Swistek |
| ◆ Citizen | ◆ Nomura |
| ◆ Star | ◆ Nexturn |
| ◆ Tornos | ◆ Hanwha |

Custom Tool Mounts



Wedge Clamps



Live Tool Monitoring

7700 Series Live Tool Monitor

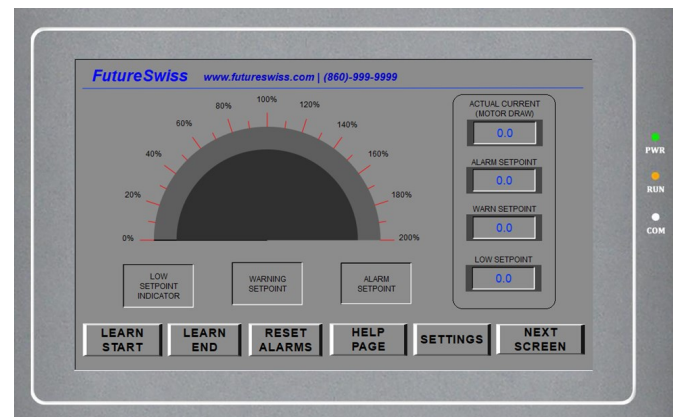
Tool/Cutter Condition Monitor for High-Speed Spindles

Detects when a Tool has Broken & Monitors Tool Wear and Performance

Features

- Learn: Sets the initial internal parameters for a good cutting cycle.
- Help: Easy access to HELP screens that explain key features.
- Setup: Disables I/O output to allow machine setup without Warning/Error output.
- Run: Operator can check all cutting parameters over time. Tool cutting history.
- Error: Output to Host machine indicating a tool has broken and is no longer cutting.
- Warning: Output to Host machine indicating a tool has exceeding normal cutting range and will need sharpening or replacing.
- Monitor up to 4 spindles independently.
- Magnetic Panel mounting for easy no-drill installation.
- Plug and play user friendly wiring and operation.
- I/O jumper cable included.
- USB ports for easy upgrade as features are added.

Easily set up for use on various model controllers. NSK iSpeed3, iSpeed5, HES, E2000, E3000, E4000. Jager/BMR.





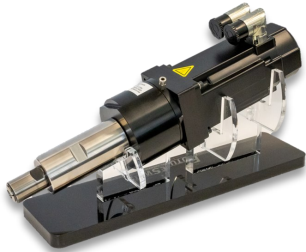
Servo Systems

Integrate CNC lathes, machining centers, CNC Swiss & Robotic systems.
Functions where a speed-controlled motor is required in a small package under manual, automated, or user programmable control.

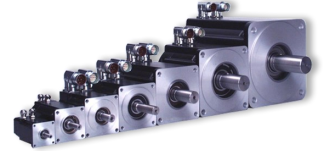
Spindles up to 13mm capacity driven up to 20,000 RPM.

Various Motor/Spindle Configurations available with custom Machine Mounts.

All made at our facility in the USA.



Robotic Applications
Available



Gravity Bar Feed System

Gravity bar feed with end of bar indicator.

Great for Hand Screw, CNC Lathes or CNC Screw Machines

Material Capacity 4mm-20mm (larger sizes available upon request)

Full System Includes:

- Front and Rear Stand
- Feed Tube
- Push Rod
- Rotary tip



Available Sizes:

Feed Tubes			Rotary Tips		Push Rod w/Flag	
Item #	O.D	I.D	Item #	Ø DIA	Item #	Size
FT-1	0.375	0.21	RT-1	.187 / 5mm	PR-1	.187 / 5mm
FT-2	0.5	0.31	RT-2	.250" / 6.3mm	PR-2	.250" / 6.3mm
FT-3	0.625	0.407	RT-3	.375" / 9mm	PR-3	.375" / 9mm
FT-4	0.75	0.56	RT-4	.500" / 12.6mm	PR-4	.500" / 12.6mm
FT-5	0.875	0.685	RT-5	.625 / 16mm	PR-5	.625 / 16mm
FT-6	1	0.81	RT-6	.750 / 20mm	PR-6	.750 / 20mm

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information

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