

NBK customized coupling is one of a kind!

● Infinite Specifications

● NBK designs and produces a customized coupling with specialized slits even if it is only a single piece!

Please contact us!

Customer Service

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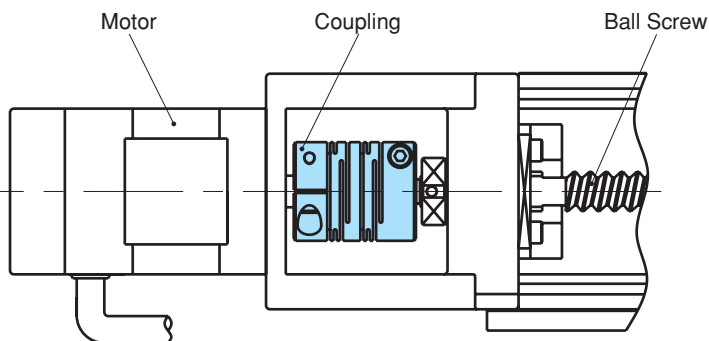
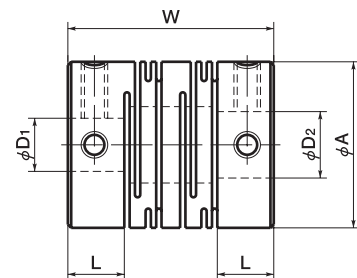
Designed with latest FEM analysis.

Produced and processed with CAM system even if it is only a single piece.

Short delivery time for your specialized couplings.

When making inquiries regarding custom couplings, please provide the following information

- Outside Diameter: A, Overall Length: W, Length of Hub: L
- Bore Diameters: $D_1 \times D_2$ (Please specify both bore diameters)
- Specifications: Max. Torque, Static Torsional Stiffness, Max. Rotational Frequency, Errors of Eccentricity, etc.
- Attachment: Setscrew type, Clamp type, Keyway type, etc.
- Material: Aluminum Alloy, Stainless Steel, Beryllium Copper Alloy, Titanium, etc.
- Surface Treatment: Anodized Coating, Plating, Chemical-polish, Clean Wash etc.

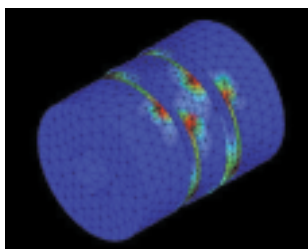


● NBK slit couplings securely and accurately transmit power and rotations from servomotors/stepping motors to devices like ball screw, etc.

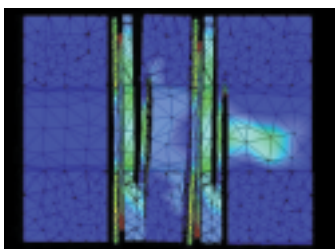
● Since these custom couplings are constructed of a single material, they are ideal for use in environments that limit the use of certain materials such as clean room environments.

The latest FEM analysis techniques are employed to evaluate the coupling stress and misalignment experienced under various conditions of use.

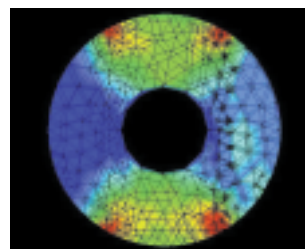
● Torque Analysis



Periphery

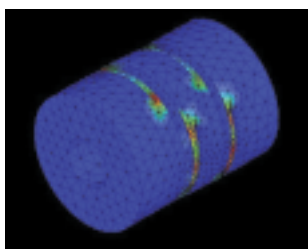


Section of Side Way

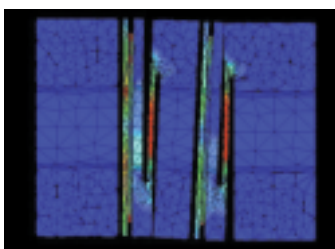


Cross-section

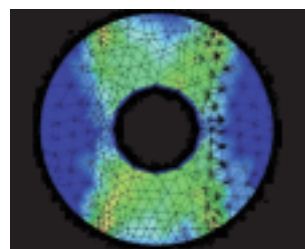
● Eccentricity Analysis



Periphery



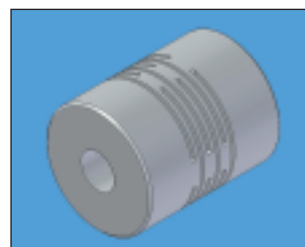
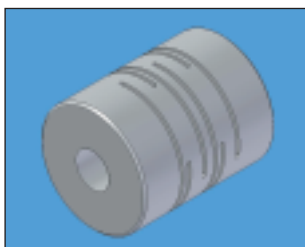
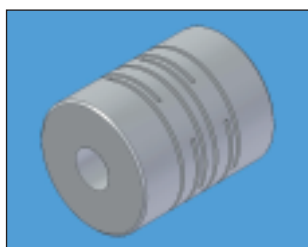
Section of Side Way



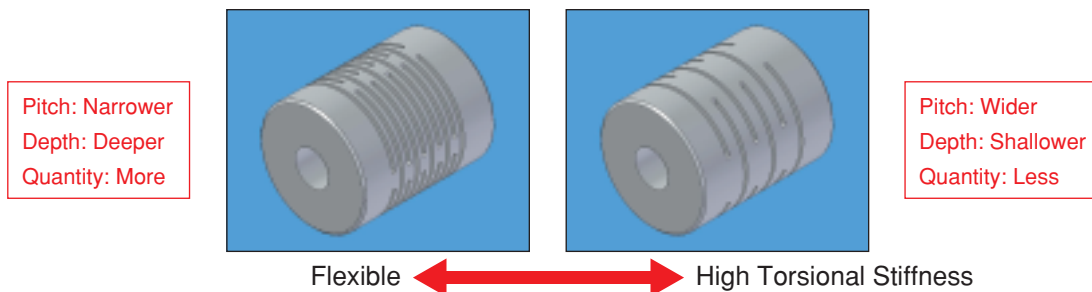
Cross-section

We can customize slit design, pitch, depth and slit quantity to create a coupling that fits your exact needs.

● Select the best slit pattern according to your specifications.



● The optimal coupling specifications can be reached through adjustment of pitch, depth, and slit quantity.



■ Example: Even with the same outside diameter and length...

	Outside Diameter (mm)	Overall Length (mm)	Rated Torque (N·m)	Max. Torque (N·m)	Static Torsional Stiffness (N·m/rad)	Allowable Errors of Angularity (mm)
ex.1: High Torque	32	41	4.8	9.6	680	0.10
ex.2: High Torsional Stiffness			4.5	9.0	780	0.08
ex.3: High Flexibility			1.6	3.2	170	0.30
ex.4: Well-balanced			3.2	6.4	450	0.15

*The above chart is only an example.

