Full Selection

SFC MODEL

- Superbly strong high-strength aluminum alloy adopted
- Low inertia achieved by the shaft diameter interlock-type hub outer diameter
- No hazardous substances used, RoHS Directive compliant
- High-rigidity single element
- High-flexibility double element
- Taper shaft-compatible adapter
- Clamp mounting only with one bolt

SFS MODEL

- Wide selection
- High-rigidity single element
- High-flexibility double element
- Floating shaft suitable for long shaft intervals
- Taper shaft-compatible hub
- Selectable from finished-assembly products and parts-delivered products
- Shaft bore design freely made from a pilot bore and a simple, strong friction lock

SFF·SFM MODEL

- SFM for the machine tool main shaft, SFF for the feed shaft
- The main shaft-compatible type allows a maximum rotation speed of 20000 min^{-1}.
- High-precision mounting by using an excellent centering mechanism
- Irregularity removed to the extent possible and wind roar lowered during high-speed rotation
- High-rigidity single element
- High-flexibility double element

SFH MODEL

- Ultrahigh torque transmission of 8000 N·m
- Unique plate spring shape in order to equally combine high torque transmission and flexibility
- High-rigidity single element
- High-flexibility floating shaft
- Shaft bore design freely made from a pilot bore

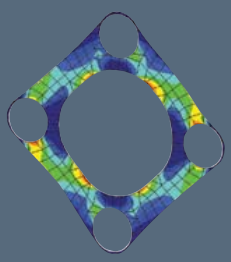
SERVO FLEX: A Wide Selection of Metal Plate Spring Couplings Made of High-power Aluminum Alloy

Two types of couplings, either a rigid type with one element or a flexible type with two elements using a spacer, can be selected.
The clamp method, an easy and exact installation method with no backlash, is adopted for the shaft installation method.
Moreover, it is compatible with the taper shaft by using an adapter.
It also complies with the EU Restriction of Hazardous Substances Directive, "RoHS Directive" that prohibits six hazardous substances such as mercury, lead, and others.

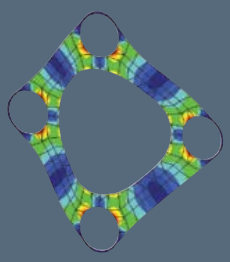
PLATE SPRING OF IDEAL FORM

High Rigidity, High Flexibility

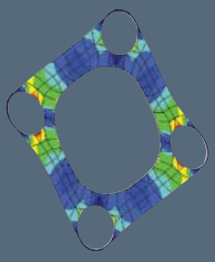
An ideal-shaped plate spring, designed based on thorough analysis using the advanced finite element method (FEM) is applied for the element.
Two types of couplings, either a high-rigidity type with one element or a high-flexibility type with two elements using a spacer, can be selected.



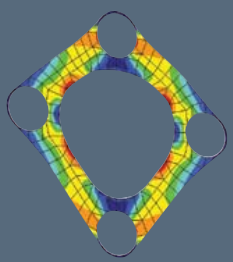
TORQUE



THRUST



BENDING



RADIAL