

Condition factor

| Rature coefficient St | | | | |
|-----------------------|-------|------|------|------|
| | ±30°C | 40°C | 60°C | 80°C |
| St | 1 | 1.2 | 1.4 | 1.4 |

| Torsional rigidity Sd | | |
|----------------------------|-------------------|---------|
| Machine tool spindle drive | Positioning drive | Encoder |
| 2-5* | 3-8* | 10→ |

| Impact load coefficient SA | | |
|----------------------------|-------------------|-----|
| Machine tool spindle drive | Positioning drive | SA |
| Slight impact | ≤60 | 1.0 |
| Slight impact | ≥60 ≤300 | 1.4 |
| Serious impact | ≤300 | 1.8 |

calculation formula

The selected coupling shall meet the following conditions :

$$T_{KN} \geq T_N \cdot S_1 \cdot S_d \quad \text{OR} \quad T_{KN} \geq T_S \cdot S_1 \cdot S_d$$

maximum moment : drive end by impact

$$T_S = T_{AS} \times m_A \times S_A$$

Elastomer



elastomer : 64/sh D
temperature range : ~20~+120°C



elastomer : 98/sh A
temperature range : ~30~+120°C



elastomer : 92/sh A
temperature range : ~40~+90°C

| Elastomer | | | | | | |
|-----------|--------|------------------|--------------------------|--------------|------------------------|---|
| Rigidity | Colour | Material quality | Operating temperature °C | | Optional specification | Application fields |
| | | | Moment | Continuation | | |
| 64/sh D | GR | Polyurethane | -30~+120 | -20~+110 | 25-80 | High Rigidity High pulling torque |
| 98/sh A | RD | Polyurethane | -40~+120 | -30~+90 | 14-135 | Positioning drive Machine tool spindle drive |
| 92/sh A | YL | Polyurethane | -50~+120 | -40~+90 | 25-80 | Underload Damping |



| deviation compensation | | | | | | | |
|------------------------|--------------------|------------------|--------------|-------------|------------------|--------------|-------------|
| specification | Elastomer rigidity | single deviation | | | double deviation | | |
| | | Axial (mm) | lateral (mm) | Angular (°) | Axial (mm) | lateral (mm) | Angular (°) |
| 14 | 92A | +0.6 -0.3 | 0.10 | 1.0° | +0.6 -0.6 | 0.21 | 1.0° |
| | 98A | | 0.06 | 0.9° | | 0.19 | 0.9° |
| | 64D | | 0.04 | 0.8° | | 0.17 | 0.8° |
| 16 | 92A | +0.6 -0.3 | 0.11 | 1.0° | +0.6 -0.6 | 0.22 | 1.0° |
| | 98A | | 0.07 | 0.9° | | 0.19 | 0.9° |
| | 64D | | 0.04 | 0.8° | | 0.17 | 0.8° |
| 20 | 92A | +0.8 -0.4 | 0.13 | 1.0° | +0.8 -0.8 | 0.26 | 1.0° |
| | 98A | | 0.08 | 0.9° | | 0.24 | 0.9° |
| | 64D | | 0.05 | 0.8° | | 0.21 | 0.8° |
| 25 | 92A | +0.8 -0.4 | 0.14 | 1.0° | +0.9 -0.9 | 0.32 | 1.0° |
| | 98A | | 0.08 | 0.9° | | 0.29 | 0.9° |
| | 64D | | 0.05 | 0.8° | | 0.25 | 0.8° |
| 30 | 92A | +1.0 -0.5 | 0.15 | 1.0° | +1.0 -1.0 | 0.37 | 1.0° |
| | 98A | | 0.09 | 0.9° | | 0.33 | 0.9° |
| | 64D | | 0.06 | 0.8° | | 0.29 | 0.8° |
| 40 | 92A | +1.2 -0.5 | 0.10 | 1.0° | +1.2 -1.0 | 0.45 | 1.0° |
| | 98A | | 0.06 | 0.9° | | 0.41 | 0.9° |
| | 64D | | 0.04 | 0.8° | | 0.36 | 0.8° |
| 55 | 92A | +1.4 -0.5 | 0.14 | 1.0° | +1.4 -1.0 | 0.59 | 1.0° |
| | 98A | | 0.10 | 0.9° | | 0.53 | 0.9° |
| | 64D | | 0.07 | 0.8° | | 0.47 | 0.8° |
| 65 | 92A | +1.5 -0.7 | 0.15 | 1.0° | +1.5 -1.4 | 0.66 | 1.0° |
| | 98A | | 0.11 | 0.9° | | 0.60 | 0.9° |
| | 64D | | 0.08 | 0.8° | | 0.53 | 0.8° |
| 80 | 92A | +1.8 -0.7 | 0.17 | 1.0° | +1.8 -1.4 | 0.77 | 1.0° |
| | 98A | | 0.12 | 0.9° | | 0.69 | 0.9° |
| | 64D | | 0.09 | 0.8° | | 0.61 | 0.8° |
| 95 | 98A | +2.0 -1.0 | 0.14 | 0.9° | - | | |
| | 64D | | 0.10 | 0.8° | | | |
| 105 | 98A | +2.1 -1.0 | 0.16 | 0.9° | - | | |
| | 64D | | 0.11 | 0.8° | | | |
| 120 | 98A | +2.2 -1.0 | 0.17 | 0.9° | - | | |
| | 64D | | 0.12 | 0.8° | | | |
| 135 | 98A | +2.6 -1.0 | 0.18 | 0.9° | - | | |
| | 64D | | 0.13 | 0.8° | | | |

