# STE

**200 – 14,000 Nm**

## Feataures

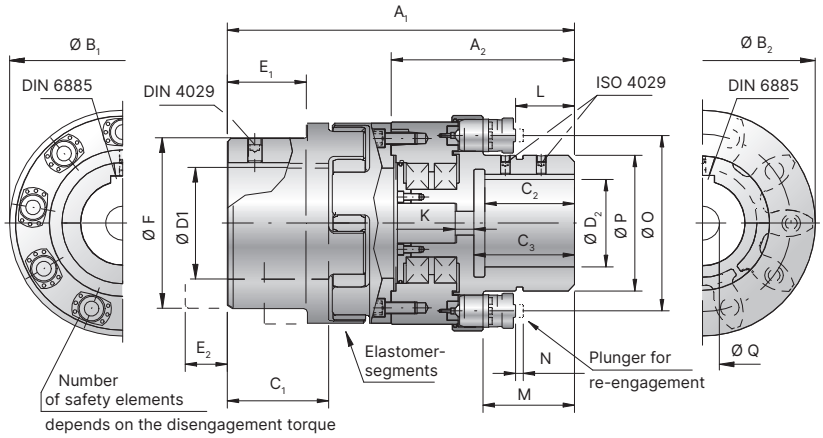
- Vibration damping
- Precise overload protection
- Wear resistant
- Press fit design
- With reinforced bearing suitable for extrusion machinery

## Material

- High-quality, hardened steel.
- Corrosion resistant surface treatments

## Design

- **Drive side:** hub with keyway connection
- **Output side:** flexible coupling and hub with simple keyway connection.
- **Safety elements:** The ST safety segments are evenly distributed around the circumference of the coupling. They ensure the safe disconnection of the driveline in the event of overload, and can be adjusted within a fixed range.




**with integrated bearing**

**Optionally available with fully split hubs**

## Model STE | Size 2–10

| Size | | | 2 | | | 5 | | | 10 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Adjustment range available from to | (KNm) | | 0.2-0.5 | 0.5-1.0 | 1.0 -1.5 | 0.7-2 | 1.2-4 | 3.2-5 | 2-5 | 4-10 | 6-14 |
| | | | 3×ST11 | 6×ST11 | 6×ST11 | 3×ST16 | 6×ST16 | 6×ST16 | 3×ST16 | 6×ST16 | 9×ST16 |
| Elastomer coupling size | | | 2,500 | | | 4,500 | | | 9,500 | | |
| Elastomer insert type | | | A / B | | | A / B | | | A / B | | |
| Overall length ±2 | (mm) | $A_1$ | 312 | | | 373 | | | 460 | | |
| Length of torque limiting portion | (mm) | $A_2$ | 170 | | | 190 | | | 230 | | |
| Flange outside diameter (ST portion) | (mm) | $B_1$ | 198 | | | 220 | | | 270 | | |
| Flange outside diameter (elastomer portion) | (mm) | $B_2$ | 160 | | | 225 | | | 290 | | |
| Fit length/keyway length D1 | (mm) | $C_1$ | 88 | | | 113 | | | 142 | | |
| Fit length/keyway length D2 | (mm) | $C_2$ | 85 | | | 100 | | | 122 | | |
| Bore depth (torque limiting portion) | (mm) | $C_3$ | 95 | | | 111 | | | 122 | | |
| Bore diameter (elastomer portion) Ø – Ø F7 | (mm) | $D_1$ | 30-95 | | | 40-130 | | | 50-170 | | |
| Bore diameter (torque limiting portion) Ø – Ø F7 | (mm) | $D_2$ | 30-80 | | | 40-90 | | | 40-110 | | |
| Length | (mm) | $E_1$ | 69 | | | 89 | | | 110 | | |
| Length | (mm) | $E_2$ | 36 | | | 47 | | | 57 | | |
| Hub diameter | (mm) | F | 154 | | | 190 | | | 240 | | |
| Wall thickness | (mm) | K | 16 | | | 24 | | | 32 | | |
| Distance | (mm) | L | 50 | | | 56 | | | 74 | | |
| Distance | (mm) | M | 81 | | | 97 | | | 115 | | |
| Actuation path | (mm) | N | 3.5 | | | 4.5 | | | 4.5 | | |
| Mounting diameter - elements | (mm) | O | 154 | | | 171 | | | 220 | | |
| Hub outside diameter | (mm) | P | 112 | | | 122 | | | 170 | | |
| Bore for fastening screw | (mm) | Q | max. Ø 17 | | | max. Ø 25 | | | max. Ø 26 | | |
| Moment of inertia (approx.) D max. + max. sgmnt | ($10^{-3}$kgm²) | | 145 | | | 337 | | | 1,145 | | |
| Speed max. | (rpm) | | 8,500 | | | 6,300 | | | 5,000 | | |
| Approx. weight at D max. + max. sgmnt | (kg) | | 35 | | | 47 | | | 110 | | |
| Axial | (mm) | | ± 3 | | | ± 4 | | | ± 5 | | |
| Lateral Elastomer insert type A / B | (mm) | | 0.5 / 0.3 | | | 0.5 / 0.3 | | | 0.6 / 0.4 | | |
| Angular Elastomer insert type A / B | (degree) | | 1.5 / 1.0 | | | 1.5 / 1.0 | | | 1.5 / 1.0 | | |
| Dynamic torsional stiffness at $T_{KN}$ (Elastomer insert type A / B) | ($10^3$ Nm/rad) | | 175 / 216 | | | 337 / 743 | | | 1,180 / 1,340 | | |