

# SPKX

Data sheet - rev. 1.0

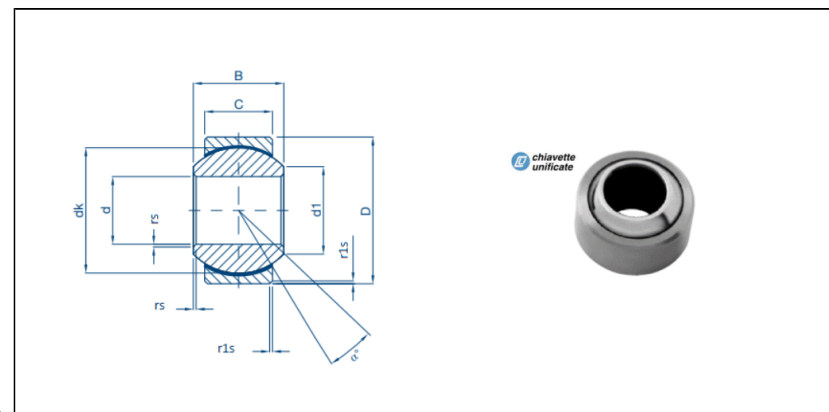
## Spherical Plain Bearings - Tesno Stainless Steel

Self-lubricating spherical-plain bearings stainless steel with PTFE, series K, DIN ISO 12240-1, maintenance free.

### FEATURES AND ADVANTAGES

- Outer ring: stainless steel X5CrNi1810 (1.4301 – AISI 304) with PTFE bonded on the inner surface
- Inner ring: stainless steel AISI 440c
- Maintenance: maintenance free
- Temperature range: -40° C to +200° C
- USE & MAINTENANCE : [see this page](#)
- STATIC LOAD SERVICE LIFE : [see this page](#)
- TOLERANCES : [see this page](#)

### COMPONENTS AND DIMENSIONS



| Type   | Measurements [mm] |    |      |    |      |      |     |     | Tilt angle   | Rotational speed limit         | Axial factor |    | Basic load rating |              | Radial clearance | Weight |
|--------|-------------------|----|------|----|------|------|-----|-----|--------------|--------------------------------|--------------|----|-------------------|--------------|------------------|--------|
|        | d                 | D  | d1   | B  | C    | dk   | rs  | r1s | $\alpha$ (°) | $n_{max}$ (min <sup>-1</sup> ) | Y            | Y0 | dyn C (kN)        | stat C0 (kN) | CN (µm)          | kg     |
| SPKX5  | 5                 | 13 | 7.7  | 8  | 6    | 11.1 | 0.3 | 0.3 | 13           | -                              | -            | -  | 8.3               | 14.9         | 20-50            | 0.01   |
| SPKX6  | 6                 | 16 | 8.9  | 9  | 6.75 | 12.7 | 0.3 | 0.3 | 13           | -                              | -            | -  | 11                | 19.6         | 20-50            | 0.01   |
| SPKX8  | 8                 | 19 | 10.4 | 12 | 9    | 15.6 | 0.3 | 0.3 | 14           | -                              | -            | -  | 19                | 34.1         | 20-50            | 0.02   |
| SPKX10 | 10                | 22 | 12.9 | 14 | 10.5 | 19.1 | 0.3 | 0.3 | 13           | -                              | -            | -  | 27.1              | 48.6         | 20-50            | 0.03   |
| SPKX12 | 12                | 26 | 15.4 | 16 | 12   | 22.2 | 0.3 | 0.3 | 13           | -                              | -            | -  | 36.7              | 65.7         | 20-50            | 0.04   |
| SPKX14 | 14                | 28 | 16.8 | 19 | 13.5 | 25.4 | 0.3 | 0.3 | 15           | -                              | -            | -  | 47.6              | 85.3         | 20-50            | 0.09   |
| SPKX16 | 16                | 32 | 19.3 | 21 | 15   | 28.6 | 0.3 | 0.3 | 15           | -                              | -            | -  | 60                | 107.4        | 20-50            | 0.08   |
| SPKX18 | 18                | 35 | 21.8 | 23 | 16.5 | 31.7 | 0.3 | 0.3 | 15           | -                              | -            | -  | 73.8              | 132.2        | 20-50            | 0.13   |
| SPKX20 | 20                | 40 | 24.3 | 25 | 18   | 34.9 | 0.3 | 0.6 | 14           | -                              | -            | -  | 89                | 159.5        | 20-50            | 0.15   |
| SPKX22 | 22                | 42 | 25.8 | 28 | 20   | 38.1 | 0.3 | 0.6 | 15           | -                              | -            | -  | 108.6             | 194.4        | 20-50            | 0.21   |
| SPKX25 | 25                | 47 | 29.5 | 31 | 22   | 42.8 | 0.3 | 0.6 | 15           | -                              | -            | -  | 135               | 241.7        | 20-50            | 0.3    |
| SPKX30 | 30                | 55 | 34.8 | 37 | 25   | 50.8 | 0.3 | 0.3 | 17           | -                              | -            | -  | 182.9             | 327.5        | 20-50            | 0.38   |
| SPKX35 | 35                | 62 | 37.7 | 43 | 28   | 57.2 | 0.6 | 1   | 19           | -                              | -            | -  | 231.5             | 414.5        | 20-50            | 0.49   |

# ROTATIONAL UNITS