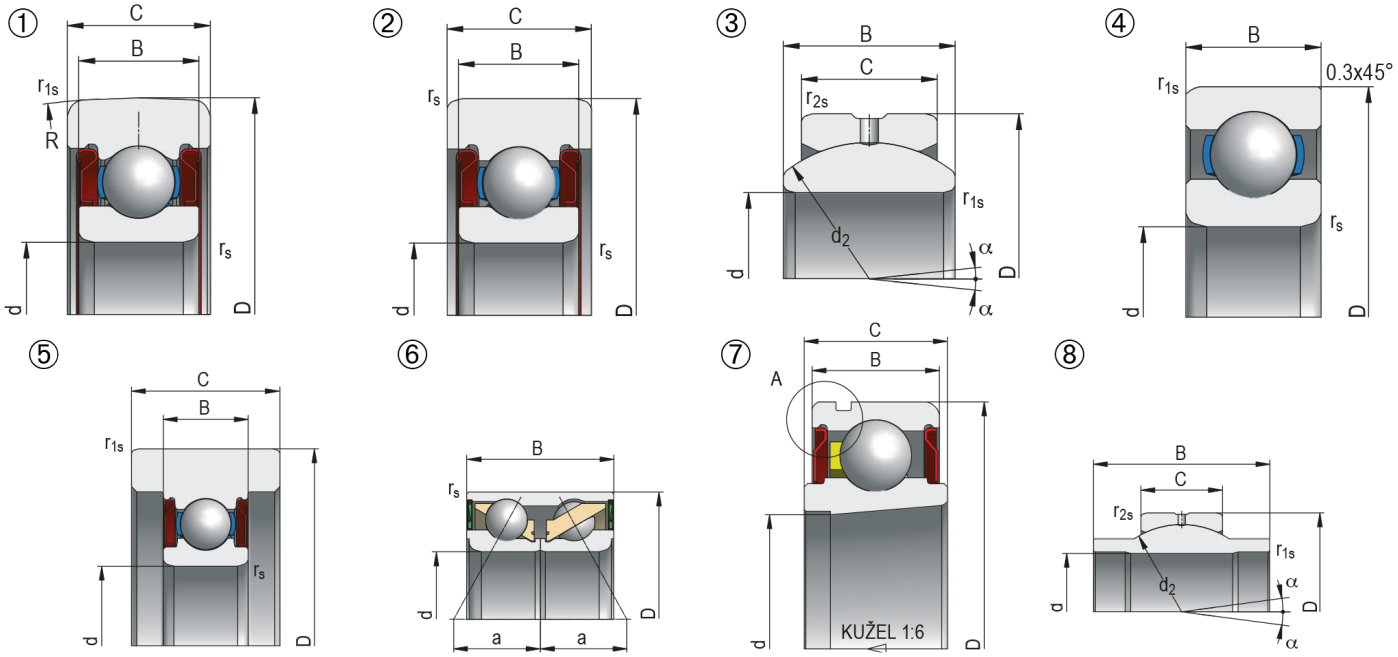
# Special bearings




| Bearing Designation | |
|---|---|

## Dimensions (mm)

| | | | |
|---|---|---|---|
| d | | R | |
| D | | $r_s$ min | |
| B | | $r_{1s}$ min | |
| C | | | |

## Basic Load Rating (kN)

| | |
|---|---|
| C | |
| $C_0$ | |

## Limiting Speed for Lubrication ($min^{-1}$)

| | |
|---|---|
| Grease | |
| Oil | |

| Weight [kg] | |
|---|---|

ZVL SLOVAKIA, a.s. • Na stanicu 22 • 010 09 Žilina • Slovakia
phone.: +421 41 707 60 32 • fax: +421 41 707 60 24
sales.zvl@zvlslovakia.sk • www.zvlslovakia.sk

## Tolerance Symbols and Their Meaning

- $d$ nominal bore diameter
- $d_1$ nominal diameter of larger theoretical tapered bore diameter
- $d_2$ nominal diameter of the shaft washer of double direction thrust bearings
- $\Delta_{ds}$ deviation of single bore diameter from nominal
- $\Delta_{dmp}$ mean cylindrical bore diameter deviation in single radial plane (for tapered bore $\Delta_{dmp}$ is valid for theoretical bore diameter)
- $\Delta_{d1mp}$ deviation of mean larger theoretical diameter of tapered bore
- $\Delta_{d2mp}$ mean shaft washer bore diameter deviation of double direction thrust bearings in single radial plane
- $V_{dp}$ single bore diameter variation in single radial plane
- $V_{dmp}$ mean cylindrical bore diameter variation
- $V_{d2p}$ shaft washer bore diameter variation of double direction thrust bearings in single radial plane
- $D$ nominal outside diameter
- $\Delta_{Ds}$ deviation of single outside diameter from the nominal dimension
- $\Delta_{Dmp}$ mean outside cylindrical surface diameter deviation in single plane
- $V_{Dp}$ single outside cylindrical surface diameter variation in single radial plane
- $V_{Dmp}$ mean outside cylindrical surface diameter variation
- $B$ inner ring nominal width
- $T$ total nominal width of tapered roller bearings
- $T_1$ nominal effective width of cup sub-unit
- $T_2$ nominal effective width of cone sub-unit
- $H$ rated width of unidirectional axial bearing
- $H_1$ rated height of unidirectional ball axial bearing including the body ring
- $H_2$ rated height of bidirectional axial bearing
- $H_3$ rated height of bidirectional axial ball bearing including body rings
- $H_4$ rated height of spherical-roller bearing
- $\Delta_{Bs}$ inner ring single width deviation
- $\Delta_{Cs}$ outer ring single width deviation
- $\Delta_{Ts}$ bearing single width deviation (total)
- $\Delta_{T1s}$ cone sub-unit effective width deviation
- $\Delta_{T2s}$ cup sub-unit effective width deviation
- $\Delta_{Hs}$ height deviation of single direction axial bearings from nominal value
- $\Delta_{H1s}$ height deviation of single direction axial ball bearings with sphered housing washer from nominal value
- $\Delta_{H2s}$ height deviation of double direction axial bearings from nominal value
- $\Delta_{H3s}$ height deviation of double direction axial ball bearings with sphered housing washer from nominal value
- $\Delta_{H4s}$ height deviation of axial spherical-roller bearing from the rated value
- $C$ outer ring nominal width
- $V_{Bs}$ inner ring single width variation
- $V_{Cs}$ outer ring single width variation
- $K_{ia}$ radial runout of assembled bearing inner ring
- $K_{ea}$ radial runout of assembled bearing outer ring
- $S_i$ shaft washer raceway axial runout
- $S_e$ housing washer raceway axial runout
- $S_{ia}$ inner ring flat seat face axial runout of assembled bearing
- $S_{ea}$ outer ring flat seat face axial runout of assembled bearing
- $S_d$ flat seat face axial runout
- $S_D$ runout of outside cylindrical surface towards outer ring face
- $S_s$ runout of supporting face towards seat face for single row tapered roller bearings

ZVL SLOVAKIA, a.s. • Na stanicu 22 • 010 09 Žilina • Slovakia
phone.: +421 41 707 60 32 • fax: +421 41 707 60 24
sales.zvl@zvlslovakia.sk • www.zvlslovakia.sk