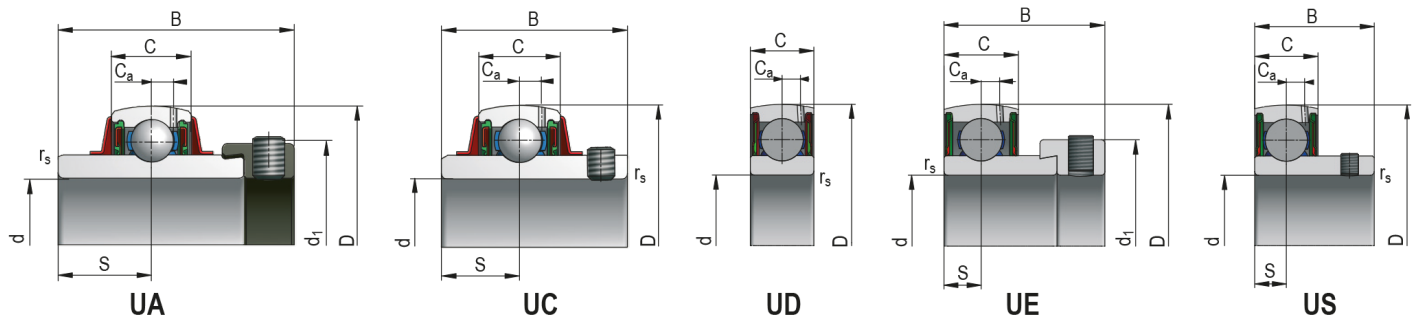


# Insert ball bearings



Bearing Designation

**UC204R3**

## Dimensions (mm)

d	20	r <sub>s</sub> min	1,5
D	47	d <sub>1</sub> max	-
B	31	S	12,7
C <sub>s</sub>	16	C <sub>a</sub>	4,4

## Basic Load Rating (kN)

C	12,79
C <sub>0</sub>	6,58

## Radial Clearance C3 (mm)

min	0,012
max	0,028

Weight [kg]

0,160

## Tolerance Symbols and Their Meaning

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