

ISO 22352W33 spherical roller bearings

We work 140x90x24 Size (mm) closely with our ISO 22352W33 spherical roller bearings manufacturing partners to 140 Bore Diameter (mm) bring the best 90 Outer Diameter (mm) value to customers.

Size (mm)	140x90x24
Bore Diameter (mm)	140
Outer Diameter (mm)	90
Width (mm)	24
d	90 mm
D	140 mm
B	24 mm
d1	108.33 mm
d2	105.5 mm
D1	121.66 mm
b	2.6 mm
C1	13.2 mm
C2	4.3 mm
C3	4.3 mm
r1,2 – min.	1.5 mm
r3,4 – min.	1 mm
a	39 mm
da – min.	97 mm
db – min.	97 mm
Da – max.	133 mm
Db – max.	134.4 mm

ra – max.	1.5 mm
rb – max.	1 mm
dn	111 mm
Basic dynamic load rating – C	33.8 kN
Basic static load rating – C0	30 kN
Fatigue load limit – Pu	1.2 kN
Limiting speed for grease lubrication	14000 r/min
Limiting speed for oil lubrication	22000 mm/min
Ball – Dw	11.112 mm
Ball – z	28
Gref	14 cm ³
Calculation factor – e	0.68
Calculation factor – Y2	1.41
Calculation factor – Y0	0.76
Calculation factor – X2	0.67
Calculation factor – Y1	0.92
Preload class A – GA	300 N
Preload class B – GB	920 N
Preload class C – GC	1840 N
Calculation factor – f	1.1
Calculation factor – f1	0.99
Calculation factor – f2A	1
Calculation factor – f2B	1.03
Calculation factor – f2C	1.06
Calculation factor – fHC	1.01
Preload class A	218 N/micron
Preload class B	329 N/micron
Preload class C	432 N/micron
r1,2 min.	1.5 mm

r _{3,4} min.	1 mm
d _a min.	97 mm
d _b min.	97 mm
D _a max.	133 mm
D _b max.	134.4 mm
r _a max.	1.5 mm
r _b max.	1 mm
Basic dynamic load rating C	33.8 kN
Basic static load rating C ₀	30 kN
Fatigue load limit P _u	1.2 kN
Attainable speed for grease lubrication	14000 r/min
Attainable speed for oil-air lubrication	22000 r/min
Ball diameter D _w	11.112 mm
Number of balls z	28
Reference grease quantity G _{ref}	14 cm ³
Preload class A G _A	300 N
Static axial stiffness, preload class A	218 N/μm
Preload class B G _B	920 N
Static axial stiffness, preload class B	329 N/μm
Preload class C G _C	1840 N
Static axial stiffness, preload class C	432 N/μm
Calculation factor f	1.1
Calculation factor f ₁	0.99
Calculation factor f _{2A}	1
Calculation factor f _{2B}	1.03
Calculation factor f _{2C}	1.06
Calculation factor f _{HC}	1.01
Calculation factor e	0.68
Calculation factor (single, tandem) Y ₂	0.87

Calculation factor (single, tandem) Y0	0.38
Calculation factor (single, tandem) X2	0.41
Calculation factor (back-to-back, face-to-face) Y1	0.92
Calculation factor (back-to-back, face-to-face) Y2	1.41
Calculation factor (back-to-back, face-to-face) Y0	0.76
Calculation factor (back-to-back, face-to-face) X2	0.67
Mass bearing	1.11 kg