

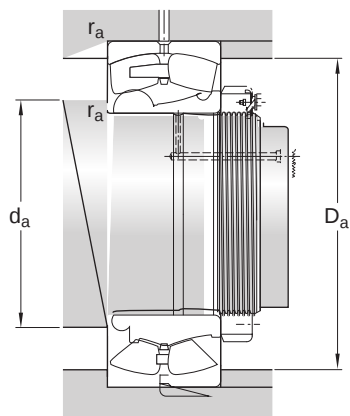
24188 ECA/W33

Spherical roller bearings can accommodate heavy loads in both directions. They are self-aligning and accommodate misalignment and shaft deflections, with virtually no increase in friction or temperature. The design includes features to facilitate relubrication. The bearings can be used in a modular system, including housings, sleeves and nuts.



- Accommodate misalignment
- High load carrying capacity
- Relubrication features
- Low friction and long service life
- Increased wear resistance

Bore type	Cylindrical	
	Dimensions	
	d	440 mm Bore diameter
	t _{Δdmp}	-0.045 – 0.0 mm Deviation limits of mid-range bore diameter
	D	720 mm Outside diameter
	t _{ΔDmp}	-0.075 – 0.0 mm Deviation limits of mid-range outside diameter
	B	280 mm Width
	t _{ΔBs}	-0.45 – 0.0 mm Deviation limits of ring width
	d ₂	≈ 516 mm Shoulder diameter of inner ring
	D ₁	≈ 618 mm Shoulder/recess diameter of outer ring
	b	22.3 mm Width of lubrication groove
	K	12 mm Diameter of lubrication hole
	r _{1,2}	min. 6 mm Chamfer dimension
	Normal	ISO tolerance class for dimensions



Abutment dimensions

d_a	min. 466 mm	Diameter of shaft abutment
D_a	max. 694 mm	Diameter of housing abutment
r_a	max. 5 mm	Radius of fillet

Calculation data

AGA performance class		AGA Explorer
Basic dynamic load rating	C	7 777 kN
Basic static load rating	C_0	13 200 kN
Fatigue load limit	P_u	900 kN
Reference speed		300 r/min
Limiting speed		450 r/min
Limiting value	e	0.37
Calculation factor	Y_1	1.8
Calculation factor	Y_2	2.7
Calculation factor	Y_0	1.8

Tolerances of run-out

Range of section height at inner ring of assembled bearing	t_{Kia}	65 μ m
Range of section height at outer ring of assembled bearing	t_{Kea}	120 μ m
ISO tolerance class for geoal tolerances		Normal

Radial internal clearance

Minimum initial clearance	240 µm
Maximum initial clearance	370 µm
Tolerances of run-out	

GENERAL BEARING SPECIFICATIONS

- Tolerances: Normal, P6, P5,
tapered bore 1:12, tapered bore 1:30
- Radial internal clearance: cylindrical bore, tapered bore

BEARING INTERFACES

- Seat tolerances for standard conditions
- Tolerances and resultant fit

AGA BEARINGS