

Improved  
Steel Cage  
Now Available!



**FAG**



**X-life**  
proven to be better

## X-life Double-Row Angular Contact Ball Bearings

### PRODUCT FEATURES

- Innovative steel cage design
- 30° contact angle
- ISO P6 manufacturing tolerances
- Double-honed raceway surfaces
- Grade 10 ball quality
- Innovative HRS seal (axial contact to the inner ring)
- New Z-type sealing shield
- Filled with grease on both sides
- Also available: optimized TVH polyamide cage

### CUSTOMER BENEFITS

- Longer bearing operating life
- Lower overall cost of ownership
- Higher pump/system reliability
- Lower energy consumption
- Quieter operation than previous steel cage designs
- Higher operating speeds
- Maximum protection against contaminants
- Longer grease life
- Reduced axial run-outs
- Increased thrust load capabilities

**X-life**

More capacity • More rigidity • Less friction • Less downtime

Longer Life &  
Highest Load Ratings  
in the Industry!

**FAG**

## X-life Double-Row Angular Contact Ball Bearings from FAG

Part Number - Steel Cage			Dimensions (millimeters)			Basic Load Ratings		Limiting Speed
Open	Shielded	Sealed	Bore	OD	Width	Cr (N)	C <sub>0r</sub> (N)	n <sub>g</sub> (min-1)
3202-BD	3202-BD-2Z	3202-BD-2HRS	15	35	15.9	12600	7400	22300
3203-BD	3203-BD-2Z	3203-BD-2HRS	17	40	17.5	15500	9500	19400
3204-BD	3204-BD-2Z	3204-BD-2HRS	20	47	20.6	20600	12900	16100
3205-BD	3205-BD-2Z	3205-BD-2HRS	25	52	20.6	22000	15200	14300
3206-BD	3206-BD-2Z	3206-BD-2HRS	30	62	23.8	31000	22200	11900
3207-BD	3207-BD-2Z	3207-BD-2HRS	35	72	27.0	41000	30000	10100
3208-BD	3208-BD-2Z	3208-BD-2HRS	40	80	30.2	51000	38000	8900
3209-BD	3209-BD-2Z	3209-BD-2HRS	45	85	30.2	50000	39000	8300
3210-BD	3210-BD-2Z	3210-BD-2HRS	50	90	30.2	53000	44000	7800
3211-BD	3211-BD-2Z	3211-BD-2HRS	55	100	33.3	61000	51000	7100
3212-BD	3212-BD-2Z	3212-BD-2HRS	60	110	36.5	75000	64000	6300
3213-BD	3213-BD-2Z	3213-BD-2HRS	65	120	38.1	86000	77000	5700

3302-BD	3302-BD-2Z	3302-BD-2HRS	15	42	19.0	17000	10400	18400
3303-BD	3303-BD-2Z	3303-BD-2HRS	17	47	22.2	22500	13100	16600
3304-BD	3304-BD-2Z	3304-BD-2HRS	20	52	22.2	24600	15900	14700
3305-BD	3305-BD-2Z	3305-BD-2HRS	25	62	25.4	31500	21000	12400
3306-BD	3306-BD-2Z	3306-BD-2HRS	30	72	30.2	43000	29500	10400
3307-BD	3307-BD-2Z	3307-BD-2HRS	35	80	34.9	55000	36500	9000
3308-BD	3308-BD-2Z	3308-BD-2HRS	40	90	36.5	67000	48500	8000
3309-BD	3309-BD-2Z	3309-BD-2HRS	45	100	39.7	72000	54000	7300
3310-BD	3310-BD-2Z	3310-BD-2HRS	50	110	44.4	93000	70000	6500
3311-BD	3311-BD-2Z	3311-BD-2HRS	55	120	49.2	116000	88000	5800
3312-BD	3312-BD-2Z	3312-BD-2HRS	60	130	54.0	130000	100000	4000
3313-BD	3313-BD-2Z	3313-BD-2HRS	65	140	58.7	150000	119000	4900
3314-BD	3314-BD-2Z	3314-BD-2HRS	70	150	63.5	168000	135000	4550
3316-BD	3316-BD-2Z	3316-BD-2HRS	80	170	68.3	199000	180000	3950

Note: BD suffix denotes X-life bearings which offer superior load ratings and longer operating life vs. conventional 32- & 33-series bearings.  
For a polyamide cage, add a TVH suffix. Example: 3202-BD-2HRS-TVH

## For the most demanding high-load, high-temperature applications: FAG's DA-series Double-Row Angular Contact Ball Bearings with split inner ring

Part Number Brass Cage	Dimensions (millimeters)			Basic Load Ratings	
	Bore	OD	Width	Cr (N)	C <sub>0r</sub> (N)
3306-DA-MA	30	72	30.2	41500	34500
3307-DA-MA	35	80	34.9	50000	41000
3308-DA-MA	40	90	36.5	62000	52000
3309-DA-MA	45	100	39.7	71000	64000
3310-DA-MA	50	110	44.4	90000	84000
3311-DA-MA	55	120	49.2	105000	101000
3312-DA-MA	60	130	54.0	121000	118000
3313-DA-MA	65	140	58.7	139000	137000
3314-DA-MA	70	150	63.5	157000	157000

### DA-series bearings feature:

- A larger 45° contact angle - allows for extreme thrust loads!
- Fully machined, high strength brass, centrifugally cast material.
- Higher bearing moment stiffness reduces shaft deflection.



For more information:

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