

THRUST ANGULAR CONTACT BALL BEARING

ZKLDF TURNTABLE BEARINGS

High-Speed Thrust Angular Contact Ball Bearings for Precision Rotary Tables

ZKLDF series turntable bearings include an integral outer ring, two inner rings, and two sets of steel balls and cage assemblies with a 60° contact angle. The outer ring and inner rings are provided with mounting holes for direct installation and fixing through connecting bolts.



ZKLDF thrust angular contact ball bearings for precision rotary table applications

- ✓ **ZKLDF Thrust Angular Contact Ball Series**
- ✓ **Bidirectional 60° Contact Angle Design**
- ✓ **Suitable for Ultra-High Speed Applications**
- ✓ **High Rigidity and High Running Accuracy**
- ✓ **Sealed Design with Relubrication Holes**

Product Highlights

STRUCTURE

Double Row Ball Design

Two rows of balls with a 60° contact angle support axial loads, radial loads and tilting moments.

PROTECTION

Sealed Bearing Unit

Sealing covers on both sides help prevent contamination and reduce internal grease leakage.

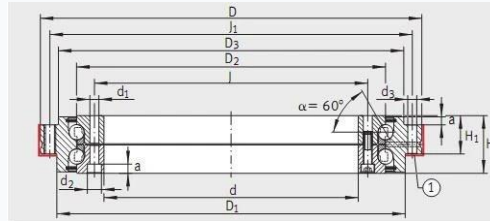
APPLICATIONS

High-Speed Rotary Tables

Suitable for high-speed, long-term operation requiring rigidity, accuracy and low maintenance.

ZKLDF Thrust Angular Contact Ball Series

ZKLDF series turntable bearings adopt bidirectional 60° contact angle and double-row ball structure design. They are suitable for ultra-high speed, long-term operation and applications requiring high rigidity and high accuracy.



ZKLDF thrust angular contact ball bearing structure and mounting dimensions

BOUNDARY DIMENSIONS & FIXING HOLES

Bearing Type	Boundary Dimensions								Fixing Holes					
	unit: mm								Inner Ring				Outer Ring	
	d	D	H	H1	D1	D2	J	J1	d1	d2	a	Qty	d3	Qty
ZKLDF100	100	185	38	25	160	136	112	170	5.6	10	5.4	16	5.6	15
ZKLDF120	120	210	40	26	184	159	135	195	7	11	6.2	22	7	21
ZKLDF150	150	240	40	26	214	188	165	225	7	11	6.2	34	7	33
ZKLDF200	200	300	45	30	274	243	215	285	7	11	6.2	46	7	45
ZKLDF260	260	385	55	36.5	345	313	280	365	9.3	15	8.2	34	9.3	33
ZKLDF325	325	450	60	40	415	380	342	430	9.3	15	8.2	34	9.3	33
ZKLDF395	395	525	65	42.5	486	450	415	505	9.3	15	8.2	46	9.3	45
ZKLDF460	460	600	70	46	560	520	482	580	9.3	15	8.2	46	9.3	45

LOAD RATING, SPEED, TORQUE & WEIGHT

Bearing Type	Retaining Screws	Extraction Thread Hole		Pitches	Tightening Torque Nm	Basic Load Rating		Limiting Speed r/min	Frictional Torque Nm	Weight kg
		G	Qty			Ca	Coa			
		mm	pcs			kN	kN			
ZKLDF100	2	M5	3	18×20°	8.5	71	265	2800	1.6	4.5
ZKLDF120	2	M8	3	24×15°	14	76	315	2400	2	6
ZKLDF150	2	M8	3	36×10°	14	81	380	2000	3	7.5
ZKLDF200	2	M8	3	48×7.5°	14	112	610	1600	4.5	11
ZKLDF260	2	M12	3	36×10°	34	162	920	1200	7.5	22
ZKLDF325	2	M12	3	36×10°	34	172	1110	1000	11	28
ZKLDF395	2	M12	3	48×7.5°	34	241	1580	800	16	39
ZKLDF460	2	M12	3	48×7.5°	34	255	1860	700	21	50

Note: Dimensions, fixing holes, load ratings, limiting speeds, frictional torque and weights are for reference only. Final technical details, availability, precision grade, lubrication and mounting requirements should be confirmed before ordering.

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