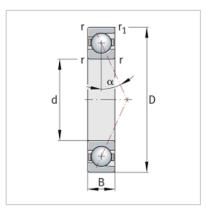


## 洛阳盟拓轴承科技有限公司 Louyang Monton Bearing Science&Technology Co.ltd.

Angular Contact Ball Bearing

DLR Design Super precision angular contact ball bearings -XC7010-EDLR-T-P4S





d 50 D 80 B 16 Basic load ratings Dyn. Cr(KN) 18.4 Stat. Cor( kN) 7.4 Fatigue limit load Cur N 560 Limiting speeds nG grease min 32000 nG oil min 48000 Dimensions r min. 1 r1 min. 1 BN 3.4 SN 9.3 SB 1.4 Contact angle a ° 25 Mounting dimensions da h12 74 ra max. 1 ra1 max. 0.3 Preload force FV L N 50 M N 149 H N 298 Lift-off force KaE L N 143 M N 435 H N 883 Axial rigidity ca L N/μm 90 M N/μm 133	Designation	XC7010-EDLR-T-P4S
D 80 B 16 Basic load ratings Dyn. Cr(KN) 18.4 Stat. Cor( kN) 7.4 Fatigue limit load Cur N 560 Limiting speeds nG grease min 32000 nG oil min 48000 Dimensions r min. 1 r1 min. 1 BN 3.4 SN 9.3 SB 1.4 Contact angle a ° 25 Mounting dimensions da h12 56 Da H12 74 ra max. 1 ra1 max. 0.3 Preload force FV L N 50 M N 149 H N 298 Lift-off force KaE L N 143 M N 435 H N 883 Axial rigidity ca L N/μm 90 M N/μm 133	Main dimensions	
B	d	50
Basic load ratings  Dyn. Cr(KN) 18.4  Stat. Cor( kN) 7.4  Fatigue limit load  Cur N 560  Limiting speeds  nG grease min 32000  nG oil min 48000  Dimensions  r min. 1  r1 min. 1  BN 3.4  SN 9.3  SB 1.4  Contact angle a° 25  Mounting dimensions da h12 56 Da H12 74  ra max. 1  ra1 max. 0.3  Preload force FV  L N 50  M N 149  H N 298  Lift-off force KaE  L N 143  M N 435  H N 883  Axial rigidity ca  L N/µm 90  M N/µm 133	D	80
Dyn. Cr(KN)       18.4         Stat. Cor( kN)       7.4         Fatigue limit load       560         Cur N       560         Limiting speeds       32000         nG oil min       48000         Dimensions       1         r min.       1         r1 min.       1         BN       3.4         SN       9.3         SB       1.4         Contact angle       25         a °       25         Mounting dimensions       4         da h12       74         ra max.       1         ra1 max.       0.3         Preload force FV       L N         L N       50         M N       149         H N       298         Lift-off force KaE       L N         L N/µm       90         M N/µm       133	В	16
Stat. Cor( kN)       7.4         Fatigue limit load       560         Cur N       560         Limiting speeds       32000         nG grease min       32000         nG oil min       48000         Dimensions       1         r min.       1         r1 min.       1         BN       3.4         SN       9.3         SB       1.4         Contact angle       25         Mounting dimensions       4a h12         Ga H12       74         ra max.       1         ra1 max.       0.3         Preload force FV       L N         L N       50         M N       149         H N       298         Lift-off force KaE       L N         L N       143         M N       435         H N       883         Axial rigidity ca       L N/µm         M N/µm       133	Basic load ratings	
Fatigue limit load Cur N 560 Limiting speeds nG grease min 32000 nG oil min 48000 Dimensions r min. 1 r1 min. 1 BN 3.4 SN 9.3 SB 1.4 Contact angle a ° 25 Mounting dimensions da h12 56 Da H12 74 ra max. 1 ra1 max. 0.3 Preload force FV L N 50 M N 149 H N 298 Lift-off force KaE L N 143 M N 435 H N 883 Axial rigidity ca L N/µm 90 M N/µm 133	Dyn. Cr(KN)	18.4
Cur N Limiting speeds nG grease min nG oil min Dimensions r min. 1 r1 min. BN 3.4 SN 9.3 SB 1.4 Contact angle a° 25 Mounting dimensions da h12 Ta max. 1 ra1 max. ra1 max. ra1 max. 0.3 Preload force FV L N SO M N 149 H N 298 Lift-off force KaE L N N N 143 M N 435 H N 883 Axial rigidity ca L N/µm 90 M N/µm 133	Stat. Cor( kN)	7.4
Limiting speeds  nG grease min  nG oil min  48000  Dimensions  r min.  r1 min.  BN  3.4  SN  9.3  SB  1.4  Contact angle  a °  25  Mounting dimensions  da h12  74  ra max.  ra1 max.  preload force FV  L N  N  149  H N  298  Lift-off force KaE  L N  N  N  143  M N  143  M N  143  M N  143  M N  144  H N  883  Axial rigidity ca  L N/µm  90  M N/µm  133	Fatigue limit load	
nG grease min nG oil min Dimensions r min. r1 min. BN 3.4 SN 9.3 SB 1.4 Contact angle a ° 25 Mounting dimensions da h12 Tal max. Tal max. Tal max. Tal max. Tal max. Tal max. Tolore FV L N SO M N SO Lift-off force KaE L N SO M N SO M N SO M N SO M N SO SO M N SO	Cur N	560
nG oil min	Limiting speeds	
Dimensions         r min.       1         r1 min.       1         BN       3.4         SN       9.3         SB       1.4         Contact angle       25         Mounting dimensions       4a h12         da h12       74         ra max.       1         ra1 max.       0.3         Preload force FV       L         L N       50         M N       149         H N       298         Lift-off force KaE       L         L N       143         M N       435         H N       883         Axial rigidity ca       L         L N/µm       90         M N/µm       133	nG grease min	32000
r min. r1 min. BN 3.4 SN 9.3 SB 1.4 Contact angle a ° 25 Mounting dimensions da h12 56 Da H12 74 ra max. ra1 max. 0.3 Preload force FV L N 50 M N 149 H N 298 Lift-off force KaE L N 143 M N 435 H N 883 Axial rigidity ca L N/µm 90 M N/µm 90 M N/µm 90	nG oil min	48000
r1 min.  BN 3.4 SN 9.3 SB 1.4 Contact angle a° 25 Mounting dimensions da h12 56 Da H12 74 ra max. ra1 max. 0.3 Preload force FV L N 50 M N 149 H N 298 Lift-off force KaE L N 143 M N 435 H N 883 Axial rigidity ca L N/µm 90 M N/µm 90 M N/µm 133	Dimensions	
BN 3.4 SN 9.3 SB 1.4 Contact angle a ° 25 Mounting dimensions da h12 56 Da H12 74 ra max. 1 ra1 max. 0.3 Preload force FV L N 50 M N 149 H N 298 Lift-off force KaE L N 143 M N 435 H N 883 Axial rigidity ca L N/µm 90 M N/µm 90 M N/µm 133	r min.	
SN 9.3 SB 1.4 Contact angle a ° 25 Mounting dimensions da h12 56 Da H12 74 ra max. 1 ra1 max. 0.3 Preload force FV L N 50 M N 149 H N 298 Lift-off force KaE L N 143 M N 435 H N 883 Axial rigidity ca L N/μm 90 M N/μm 133	r1 min.	
SB 1.4  Contact angle a ° 25  Mounting dimensions da h12 56  Da H12 74  ra max. 1  ra1 max. 0.3  Preload force FV  L N 50  M N 149  H N 298  Lift-off force KaE  L N 143  M N 435  H N 883  Axial rigidity ca  L N/μm 90  M N/μm 133	BN	3.4
Contact angle a ° 25  Mounting dimensions da h12 56 Da H12 74 ra max. 1 ra1 max. 0.3 Preload force FV L N 50 M N 149 H N 298 Lift-off force KaE L N 143 M N 435 H N 883 Axial rigidity ca L N/µm 90 M N/µm 133	SN	9.3
a ° 25  Mounting dimensions da h12 56 Da H12 74 ra max. 1 ra1 max. 0.3 Preload force FV L N 50 M N 149 H N 298 Lift-off force KaE L N 143 M N 435 H N 883 Axial rigidity ca L N/µm 90 M N/µm 133	SB	1.4
Mounting dimensions         da h12       56         Da H12       74         ra max.       1         ra1 max.       0.3         Preload force FV       50         L N       50         M N       149         H N       298         Lift-off force KaE       143         L N       143         M N       435         H N       883         Axial rigidity ca       1         L N/μm       90         M N/μm       133	Contact angle	
da h12       56         Da H12       74         ra max.       1         ra1 max.       0.3         Preload force FV       50         L N       149         H N       298         Lift-off force KaE       143         L N       143         H N       883         Axial rigidity ca       1         L N/μm       90         M N/μm       133	a °	25
Da H12       74         ra max.       1         ra1 max.       0.3         Preload force FV         L N       50         M N       149         H N       298         Lift-off force KaE       L N         L N       143         M N       435         H N       883         Axial rigidity ca       L         L N/μm       90         M N/μm       133	Mounting dimensions	
ra max. ra1 max. 0.3 Preload force FV L N 50 M N 149 H N 298 Lift-off force KaE L N 143 M N 435 H N 883 Axial rigidity ca L N/µm 90 M N/µm 133	da h12	56
ra1 max. 0.3 Preload force FV L N 50 M N 149 H N 298 Lift-off force KaE L N 143 M N 435 H N 883 Axial rigidity ca L N/µm 90 M N/µm 133	Da H12	74
Preload force FV L N 50 M N 149 H N 298 Lift-off force KaE L N 143 M N 435 H N 883 Axial rigidity ca L N/µm 90 M N/µm 133	ra max.	1
L N 50 M N 149 H N 298 Lift-off force KaE L N 143 M N 435 H N 883 Axial rigidity ca L N/µm 90 M N/µm 133	ra1 max.	0.3
M N 149 H N 298 Lift-off force KaE L N 143 M N 435 H N 883 Axial rigidity ca L N/μm 90 M N/μm 133	Preload force FV	
H N 298 Lift-off force KaE L N 143 M N 435 H N 883 Axial rigidity ca L N/µm 90 M N/µm 133	LN	50
Lift-off force KaE L N 143 M N 435 H N 883 Axial rigidity ca L N/μm 90 M N/μm 133	MN	149
L N 143 M N 435 H N 883 Axial rigidity ca L N/μm 90 M N/μm 133	H N	298
M N 435 H N 883 Axial rigidity ca L N/μm 90 M N/μm 133	Lift-off force KaE	
H N 883 Axial rigidity ca L N/μm 90 M N/μm 133	LN	
Axial rigidity ca L N/μm 90 M N/μm 133	M N	435
L N/μm 90 M N/μm 133	H N	883
M N/μm 133	Axial rigidity ca	
	L N/μm	
	M N/μm	133
H N/μm 172	H N/μm	172
Mass	Mass	
m = kg   0.262	m = kg	0.262

MONTON double direction thrust angular contact ball bearings consist of two single row thrust angular contact ball bearings with back-to-back arrangement and contact angle of 60°. This configuration plus the multi-ball design allows the bearing to withstand high axial loads in both directions and provide high system rigidity. The two bearings are separated. When the shaft rings are pressed together, a preload within a preset range can be obtained, so it is often used in the

bidirectional positioning of machine tool spindles.

MONTON double direction thrust angular contact ball bearing combined with NN30K series or N10K series cylindrical roller bearings and installed in the same bearing seat hole. This bearing combination simplifies the processing of the bearing seat hole. The nominal inner diameter and outer diameter of MONTON double direction thrust angular contact ball bearings are the same as those of the corresponding cylindrical roller bearings. The outer diameter tolerance of the seat ring is combined with the bearing seat bore diameter and form and position tolerances recommended for super precision cylindrical roller bearings to give the bearing seat hole an appropriate radial clearance. If the outer ring is not axially pressed in the bearing seat, the clearance is sufficient to prevent the thrust bearing from bearing radial loads. The 234 series double direction thrust angular contact ball bearings are 60° contact angle structures, consisting of a seat ring with a lubricating oil groove and oil hole, two shaft rings, a spacer and two cage assemblies with many steel balls; the width of the spacer can ensure that the bearings are preloaded. Double direction angular contact ball bearings can withstand bidirectional axial loads and do not withstand radial loads.

They have high precision, good rigidity, good lubrication, low temperature rise, high speed and easy loading and unloading. This type of bearing is widely used in the spindles of grinders, lathes, boring machines, milling machines, drilling machines, etc., and is particularly suitable for use in precision machine tool spindles when combined with double-row cylindrical roller bearings.

Our company has professional sales and technical engineers who are responsible for providing users with technical consultation, technical services and product technical training on precision bearing data and installation and use. Perfect pre-sales, in-sales and after-sales services constitute a guarantee system for high-quality services, providing users with reliable quality bearing products, and creating excellent user experience and rich benefits for every customer.

If you have any questions about products and services, please contact the company's service department directly.