

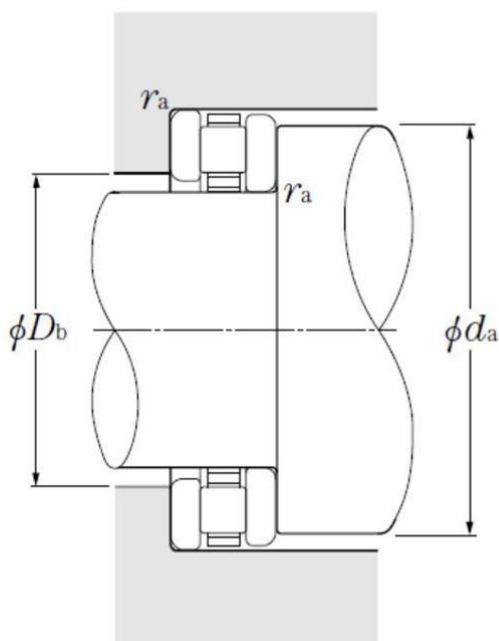
## Technical data

### 81224

Complete thrust bearing

Needle roller bearing, thrust cylindrical roller bearing, 812 series

## VISUAL (S)



## PRODUCT DEFINITION

|                                                  |        |
|--------------------------------------------------|--------|
| Brand                                            | NTN    |
| d - Bore diameter of support washer IR - WS      | 120 mm |
| D - Outside diameter of support washer OR - GS   | 170 mm |
| d1 - External diameter of support washer IR - WS | 170 mm |
| D1 - Bore diameter bearing washer OR - GS        | 123 mm |
| T - Thrust bearing height                        | 39 mm  |
| Dw - Rolling element diameter                    | 15 mm  |
| Dc1 - Roller cage bore diameter                  | 120 mm |



**NTN Europe**

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S.A. au capital de 322 639 919 € · RCS ANNECY B 325 821 072 · Id. Fiscale : FR 48 325 821 072  
SIRET 325 821 072 00015 · Code APE 2815 Z · Code NACE 28.15

## PRODUCT DEFINITION

|                                              |          |
|----------------------------------------------|----------|
| <b>Dc - Roller cage outer diameter</b>       | 170 mm   |
| <b>rs - Min fillet radius</b>                | 1,1 mm   |
| <b>Cage assembly reference</b>               | K81224   |
| <b>Bearing ring (inner ring) WS</b>          | WS81224  |
| <b>Bearing ring (outer ring) GS</b>          | GS81224  |
| <b>Ea - Rollers reference outer diameter</b> | 160 mm   |
| <b>Eb - Rollers reference inner diameter</b> | 129,2 mm |
| <b>Mass</b>                                  | 2,69 kg  |
| <b>Cage assembly mass</b>                    | 0,73 kg  |
| <b>Bearing ring (inner ring) WS mass</b>     | 0,98 kg  |
| <b>Bearing ring (outer ring) GS mass</b>     | 0,98 kg  |

## PRODUCT PERFORMANCE

|                                               |              |
|-----------------------------------------------|--------------|
| <b>Ca - Dynamic axial load rating</b>         | 264000000 mN |
| <b>C0a - Static axial load rating</b>         | 930000000 mN |
| <b>Cua - Limit axial load rating</b>          | 101000000 mN |
| <b>N lim - Grease lubrication limit speed</b> | 2580 °/s     |
| <b>N lim - Oil lubrication limit speed</b>    | 10200 °/s    |
| <b>Tmin - Min operating temperature</b>       | 253,15 °K    |
| <b>Tmax - Max operating temperature</b>       | 393,15 °K    |

## ABUTMENT

|                                                        |        |
|--------------------------------------------------------|--------|
| <b>da min - Min shoulder diameter IR</b>               | 159 mm |
| <b>Db max - Max OR shoulder diameter</b>               | 129 mm |
| <b>ras max - Max shaft &amp; housing fillet radius</b> | 1 mm   |

