

Factory-Verified Replacement

MERYDOM RKS.21 0411

Certified for interchange with SKF RKS.21 0411. This document consolidates the public product record, complete published specifications, technical media, source traceability and engineering confirmation notes.

LEVEL 3 - MERYDOM ENGINEERING VERIFIED

Reviewed by MERYDOM Engineering Department. Final application approval must confirm loads, duty cycle, mounting rigidity, bolt capacity, lubrication and operating conditions.

MERYDOM MODEL

RKS.21 0411

REFERENCE

SKF RKS.21 0411

SERIES

SKF\_BALL\_LIGHT\_EXTERNAL Series

STRUCTURE

Four-point contact ball

OVERALL OD

505 mm

OVERALL ID

304 mm

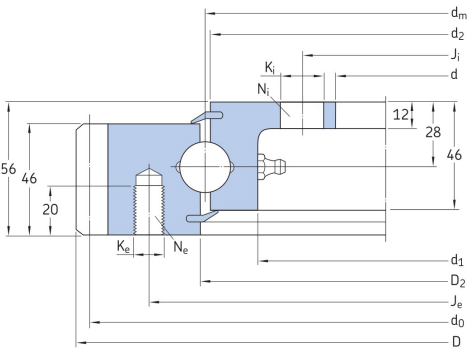
OVERALL HEIGHT

mm

GEAR

External gear

Published Technical Drawing



skf-p062-outline-drawing.webp

## Complete Product Data

All values below are generated from the current public verified replacement record. Source values are retained and metric references are shown where available.

| MERYDOM CERTIFIED PRODUCT            |                                        |
|--------------------------------------|----------------------------------------|
| Product brand                        | MERYDOM                                |
| MERYDOM model                        | RKS.21 0411                            |
| Certified interchangeable with       | SKF RKS.21 0411                        |
| Verification status                  | Level 3 - MERYDOM Engineering Verified |
| Reviewed by                          | MERYDOM Engineering Department         |
| Public record UID                    | VNDV2AQDULL6HE7RB4JDO7VES2             |
| MATERIALS                            |                                        |
| Configurable ring material options   | 42CrMo / 50Mn                          |
| Seal material                        | NBR - Nitrile rubber                   |
| Configurable spacer material options | Engineering nylon / Brass              |
| IDENTIFICATION                       |                                        |
| Reference brand                      | SKF                                    |
| Reference series                     | SKF_BALL_LIGHT_EXTERNAL Series         |
| Reference model                      | RKS.21 0411                            |
| Bearing structure                    | Four-point contact ball                |
| Gear arrangement                     | External gear                          |
| DIMENSION                            |                                        |
| Raceway diameter (dm)                | 411 mm                                 |
| Overall outside diameter (D)         | 505 mm                                 |
| SKF catalogue dimension D2 (D2)      | 412.5 mm                               |

## Complete Product Data

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| DIMENSION (CONTINUED)                       |                |
|---------------------------------------------|----------------|
| Overall inside diameter (d)                 | 304 mm         |
| SKF catalogue dimension D1 (d1)             | 368 mm         |
| SKF catalogue dimension d2 (d2)             | 409.5 mm       |
| Mass (Mass)                                 | 32 kg          |
| MOUNTING                                    |                |
| Outer ring bolt circle (Je)                 | 455 mm         |
| Outer ring mounting-hole specification (Ke) | M12 mm         |
| Outer ring mounting-hole count (Ne)         | 10 count       |
| Inner ring bolt circle (Ji)                 | 332 mm         |
| Inner ring mounting-hole specification (Ki) | 18 mm          |
| Inner ring mounting-hole count (Ni)         | 12 count       |
| PERFORMANCE                                 |                |
| Basic dynamic axial load rating (C)         | 169 kN         |
| Basic static axial load rating (C0)         | 284 kN         |
| PERFORMANCE RATINGS                         |                |
| Basic Dynamic Axial                         | 169 kN         |
| Basic Static Axial                          | 284 kN         |
| MOUNTING INTERFACES                         |                |
| Outer ring mounting                         | 10 holes - M12 |
| Inner ring mounting                         | 12 holes - 18  |

Complete Product Data

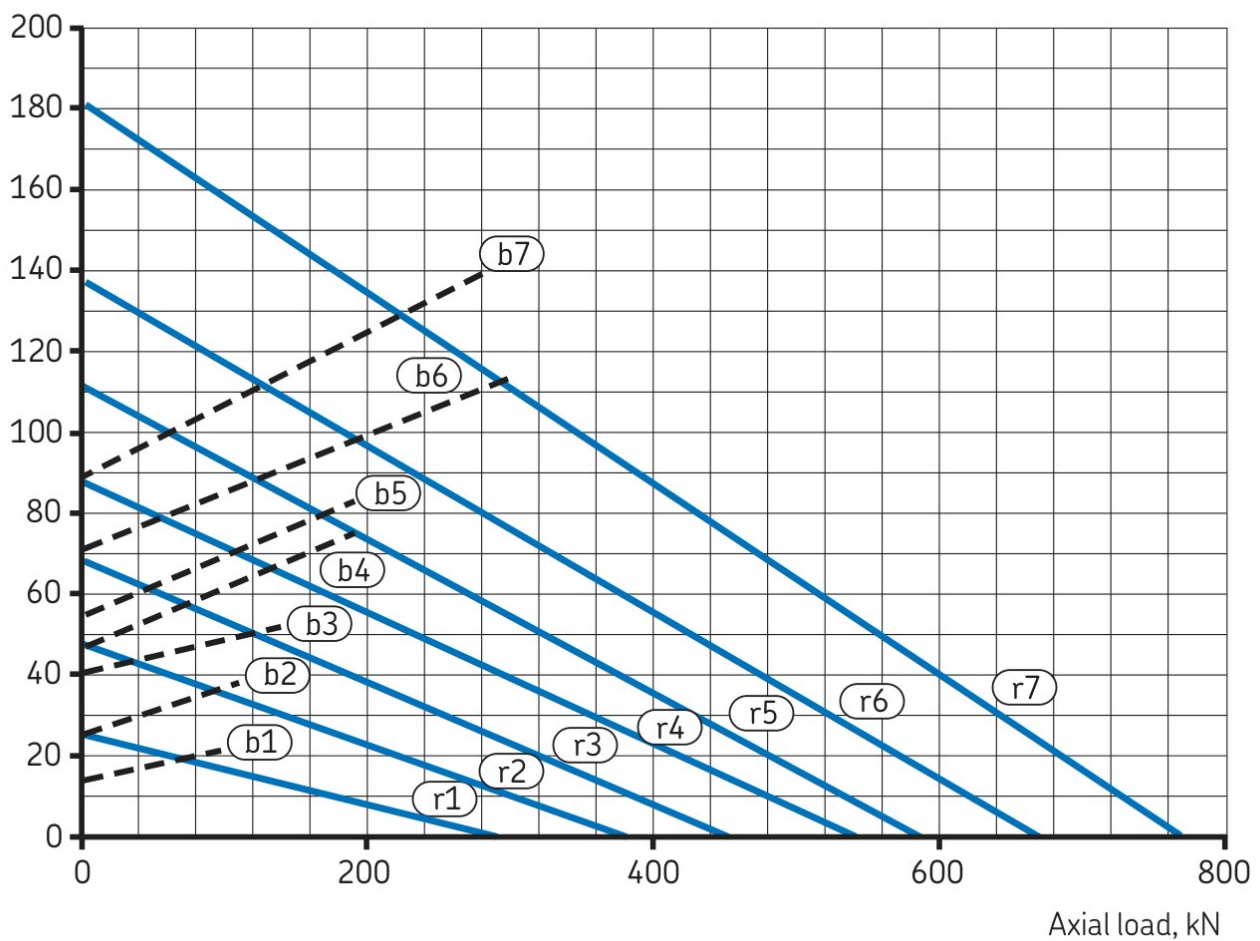
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| GEAR INTERFACE            |                                                                                                                  |
|---------------------------|------------------------------------------------------------------------------------------------------------------|
| Pitch system              | Not published                                                                                                    |
| SOURCE TRACEABILITY       |                                                                                                                  |
| Source document code      | SKF_SLEWING_BEARINGS_PUB_BU_P2_06115_3_EN_2019_09                                                                |
| Source file               | SKF_Slewing_Bearings_PUB_BU_P2_06115_3_EN_2019-09.pdf                                                            |
| PDF page                  | 62                                                                                                               |
| Printed page              | 62                                                                                                               |
| Source language           | EN                                                                                                               |
| Original unit system      | Metric                                                                                                           |
| PUBLISHED TECHNICAL MEDIA |                                                                                                                  |
| Load Curve Chart          | skf-p063-load-curve.webp   SHA-256:<br>1a4899c3dcfefb043ff83921c0a2a1d31b39bc7bf43cdc6d81df3d638b<br>c88d6d      |
| Outline Drawing           | skf-p062-outline-drawing.webp   SHA-256:<br>8817f04e5fd01372b822c4684cbe787f9d7591b315fe5331e4d5ce25eb<br>c58c7a |

## Published Load / Performance Chart

Use the published chart as a preliminary selection aid only. The model legend, curve family and source document must be reviewed together with the operating load case.

Tilting moment, kNm



skf-p063-load-curve.webp | SHA-256: 1a4899c3dcfebf043ff83921c0a2a1d31b39bc7bf43cdc6d81df3d638bc88d6d

Engineering note: final approval must also consider mounting rigidity, bolt capacity, duty cycle, lubrication, temperature, environment and installation conditions.

Source and Verification Traceability

|                                                                                         |                                                                                         |
|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| <div>PUBLIC RECORD UID</div> <div>VNDV2AQDULL6HE7RB4JDO7VES2</div>                      | <div>SOURCE DOCUMENT</div> <div>SKF_SLEWING BEARINGS_PUB_BU_P2_06115_3_EN_2019_09</div> |
| <div>SOURCE FILE</div> <div>SKF_Slewing_Bearings_PUB_BU_P2_06115_3_EN_2019-09.pdf</div> | <div>SOURCE LOCATION</div> <div>PDF page 62   Printed page 62</div>                     |
| <div>VERIFICATION</div> <div>Level 3 - MERYDOM Engineering Verified</div>               | <div>REVIEWED BY</div> <div>MERYDOM Engineering Department</div>                        |

Engineering Confirmation Boundary

- 1

Confirm the exact model designation and all installation-envelope dimensions.
- 2

Confirm mounting-hole quantity, bolt circle, hole specification, bolt grade and preload.
- 3

Confirm gear arrangement, pitch system, tooth count, backlash and mating-pinion data.
- 4

Confirm axial, radial and moment loads, load combinations, duty cycle and required life.
- 5

Confirm support flatness and stiffness, lubrication, sealing, temperature and environment.
- 6

Final drawing revision, manufacturing tolerances and documentation package are confirmed with the quotation.

Request Price, Delivery and Final Engineering Confirmation

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Product page: <https://rotnex.com/products/slewing-bearing-replacements/skf/rks-21-0411/>

Trademark and legal notice: referenced brand and model names are used only for identification and cross-reference. MERYDOM is an independent manufacturer and is not affiliated with or endorsed by the referenced brand unless expressly stated.