

Factory-Verified Replacement

MERYDOM 48-0644-00

Certified for interchange with ROLLIX 48-0644-00. 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

48-0644-00

REFERENCE

ROLLIX 48-0644-00

SERIES

48 Series

STRUCTURE

Cuscinetto a rulli di precisione

OVERALL OD

716 mm

OVERALL ID

572 mm

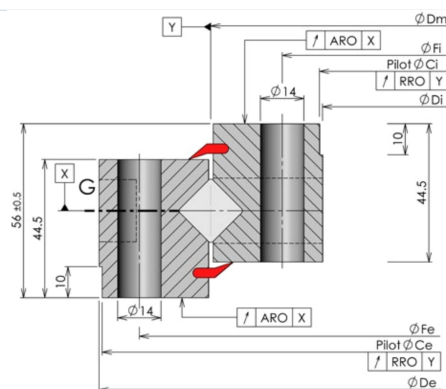
OVERALL HEIGHT

56 mm

GEAR

Senza dentatura

Published Technical Drawing



rollix-page-122-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	48-0644-00
Certified interchangeable with	ROLLIX 48-0644-00
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	ZV3HK3AXUPSYW7DHS53TD23TJK
MATERIALS	
Configurable ring material options	42CrMo / 50Mn
Seal material	NBR - Nitrile rubber
Configurable spacer material options	Engineering nylon / Brass
IDENTIFICATION	
Reference brand	ROLLIX
Reference series	48 Series
Reference model	48-0644-00
Bearing structure	Cuscinetto a rulli di precisione
Gear arrangement	Senza dentatura
DIMENSION	
Overall outside diameter (Dia De)	716 mm
Overall inside diameter (Dia Di)	572 mm
Overall height (HT)	56 mm

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.

DIMENSION (CONTINUED)	
Outer ring height (He)	44 mm
Inner ring height (Hi)	44 mm
Assembly weight (Weight)	45 kg
MOUNTING	
Outer ring pilot diameter (Dia Ce)	714 mm
Inner ring pilot diameter (Dia Ci)	574 mm
Outer ring pilot height (Hce)	10 mm
Inner ring pilot height (Hci)	10 mm
Outer ring bolt circle (Fe)	690 mm
Outer ring mounting-hole count (Ne*)	36
Inner ring bolt circle (Fi)	598 mm
Inner ring mounting-hole count (Ni*)	36
PERFORMANCE	
Outer ring axial run-out (BE (ARO))	50 um
Inner ring axial run-out (BI (ARO))	50 um
Outer ring radial run-out (BE (RRO))	80 um
Inner ring radial run-out (BI (RRO))	70 um
Maximum unloaded starting torque (Maximum starting torque)	80 Nm
Maximum allowable rotation speed (Maximum allowable speed)	54 rpm

Complete Product Data

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PERFORMANCE RATINGS	
Rating Starting Torque Max	80 Nm Not simultaneous with other listed dynamic ratings
Axial Runout Outer	50 um Not simultaneous with other listed dynamic ratings
Axial Runout Inner	50 um Not simultaneous with other listed dynamic ratings
Rating Speed Max	54 rpm Not simultaneous with other listed dynamic ratings
Radial Runout Outer	80 um Not simultaneous with other listed dynamic ratings
Radial Runout Inner	70 um Not simultaneous with other listed dynamic ratings
MOUNTING INTERFACES	
Outer ring mounting	36 holes - See source drawing
Inner ring mounting	36 holes - Hci 10 mm
GEAR INTERFACE	
Integral gear	Not applicable - ungeared bearing
SOURCE TRACEABILITY	
Source document code	ROLLIX-CATALOGUE-SLEWING-RINGS-2024-07
Source file	ROLLIX.pdf
PDF page	122
Printed page	122
Source language	EN
Original unit system	Metric
PUBLISHED TECHNICAL MEDIA	
Load Curve Chart	rollix-page-122-curve.webp SHA-256: 645bae9a79bf2d1776c65d01d37d0882473202a32fa1e9d293c3126dba ea25ad

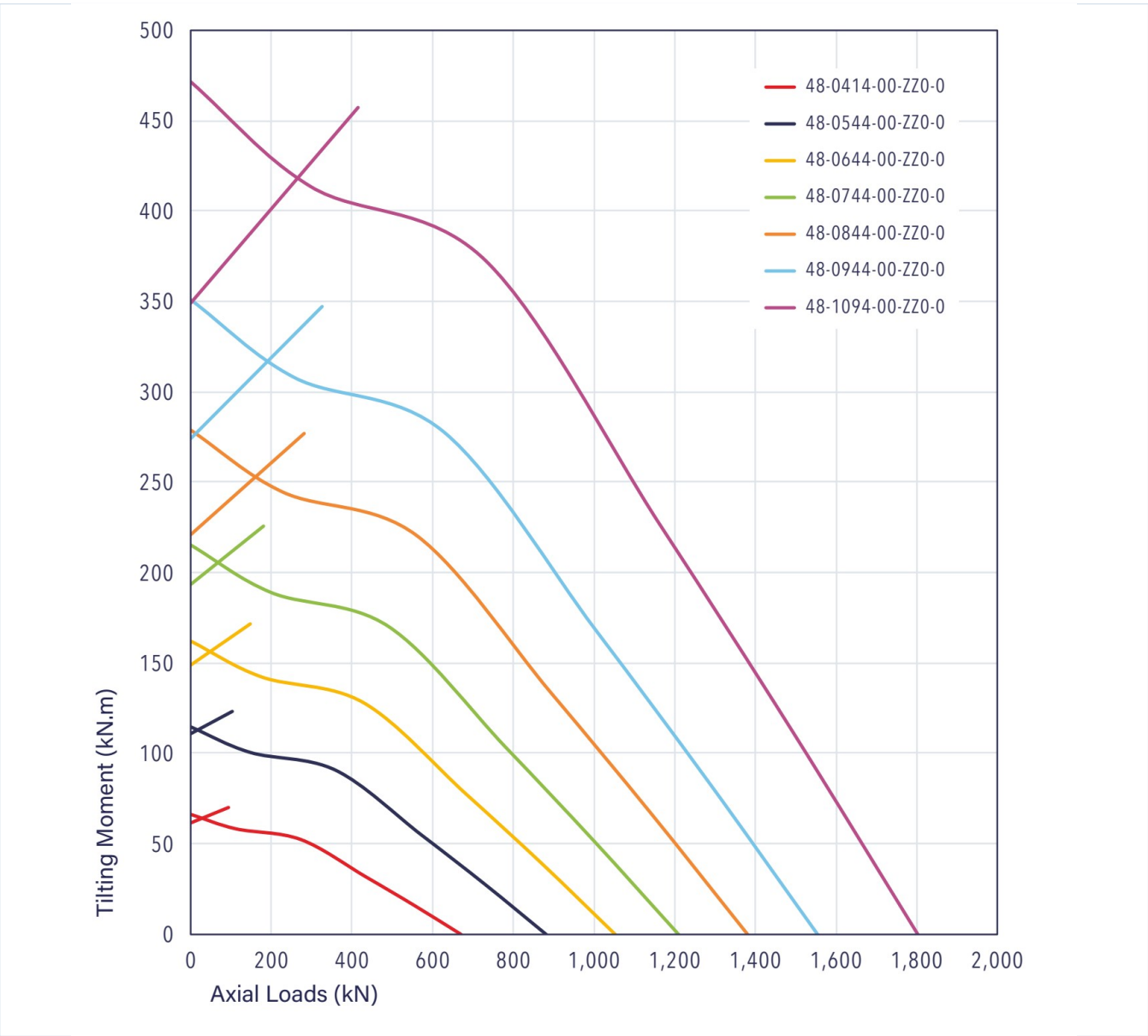
Complete Product Data

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PUBLISHED TECHNICAL MEDIA (CONTINUED)	
Outline Drawing	rollix-page-122-drawing.webp SHA-256: d8b1a8fdaea69da44cf8601ef309a2d40ef48e44f375667a741b93fff4 13f4b1

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.



rollix-page-122-curve.webp | SHA-256: 645bae9a79bf2d1776c65d01d37d0882473202a32fa1e9d293c3126dbaea25ad

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

Source and Verification Traceability

PUBLIC RECORD UID ZV3HK3AXUPSYW7DHS53TD23TJK	SOURCE DOCUMENT ROLLIX-CATALOGUE-SLEWING-RINGS-2024-07
SOURCE FILE ROLLIX.pdf	SOURCE LOCATION PDF page 122 Printed page 122
VERIFICATION Level 3 - MERYDOM Engineering Verified	REVIEWED BY MERYDOM Engineering Department

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

Email: jovi@merydom.com | Email: andi@merydom.com | WhatsApp: +86 17705201170

Product page: <https://rotnex.com/it/prodotti/cuscinetti-di-rotazione-sostitutivi/rollix/48-0644-00/>

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