

MERYDOM 46-0414-00

Certified for interchange with ROLLIX 46-0414-00. 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

46-0414-00

REFERENCE

ROLLIX 46-0414-00

SERIES

46 Series

STRUCTURE

Precision roller bearing

OVERALL OD

504 mm

OVERALL ID

342 mm

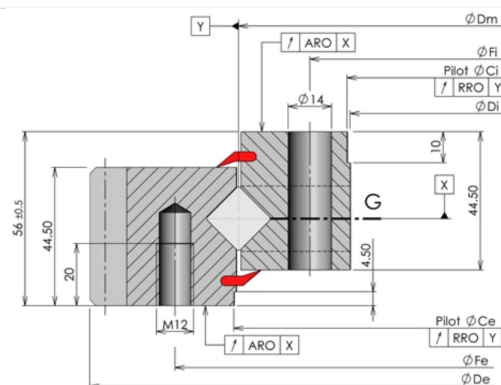
OVERALL HEIGHT

56 mm

GEAR

External gear

Published Technical Drawing



rollix-page-120-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	46-0414-00
Certified interchangeable with	ROLLIX 46-0414-00
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	TJYXK7DSJJWRC6F7D6OIRWTWHM
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	46 Series
Reference model	46-0414-00
Bearing structure	Precision roller bearing
Gear arrangement	External gear
DIMENSION	
Overall outside diameter (Dia De)	504 mm
Overall inside diameter (Dia Di)	342 mm
Overall height (HT)	56 mm

Complete Product Data

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DIMENSION (CONTINUED)	
Outer ring height (He)	44 mm
Inner ring height (Hi)	44 mm
Assembly weight (Weight)	32 kg
MOUNTING	
Outer ring pilot diameter (Dia Ce)	417 mm
Inner ring pilot diameter (Dia Ci)	344 mm
Outer ring pilot height (Hce)	10 mm
Inner ring pilot height (Hci)	10 mm
Outer ring bolt circle (Fe)	455 mm
Outer ring mounting-hole count (Ne*)	20
Inner ring bolt circle (Fi)	368 mm
Inner ring mounting-hole count (Ni*)	24
GEAR	
Gear module (Module)	5 mm
Gear tooth count (Number of teeth)	99
Gear run-out (Gear run-out)	0.11 mm
PERFORMANCE	
Outer ring axial run-out (BE (ARO))	40 um
Inner ring axial run-out (BI (ARO))	40 um
Outer ring radial run-out (BE (RRO))	60 um

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PERFORMANCE (CONTINUED)	
Inner ring radial run-out (BI (RRO))	60 um
Maximum unloaded starting torque (Maximum starting torque)	45 Nm
Maximum allowable rotation speed (Maximum allowable speed)	85 rpm
Static gear resistance (Static Gear Resistance)	33 kN
PERFORMANCE RATINGS	
Rating Starting Torque Max	45 Nm Not simultaneous with other listed dynamic ratings
Axial Runout Outer	40 um Not simultaneous with other listed dynamic ratings
Axial Runout Inner	40 um Not simultaneous with other listed dynamic ratings
Rating Speed Max	85 rpm Not simultaneous with other listed dynamic ratings
Radial Runout Outer	60 um Not simultaneous with other listed dynamic ratings
Radial Runout Inner	60 um Not simultaneous with other listed dynamic ratings
Rating Gear Static Resistance	33 kN Not simultaneous with other listed dynamic ratings
MOUNTING INTERFACES	
Outer ring mounting	20 holes - See source drawing
Inner ring mounting	24 holes - Hci 10 mm
GEAR INTERFACE	
Pitch system	module
Module reference	5 mm
Number of teeth	99
SOURCE TRACEABILITY	

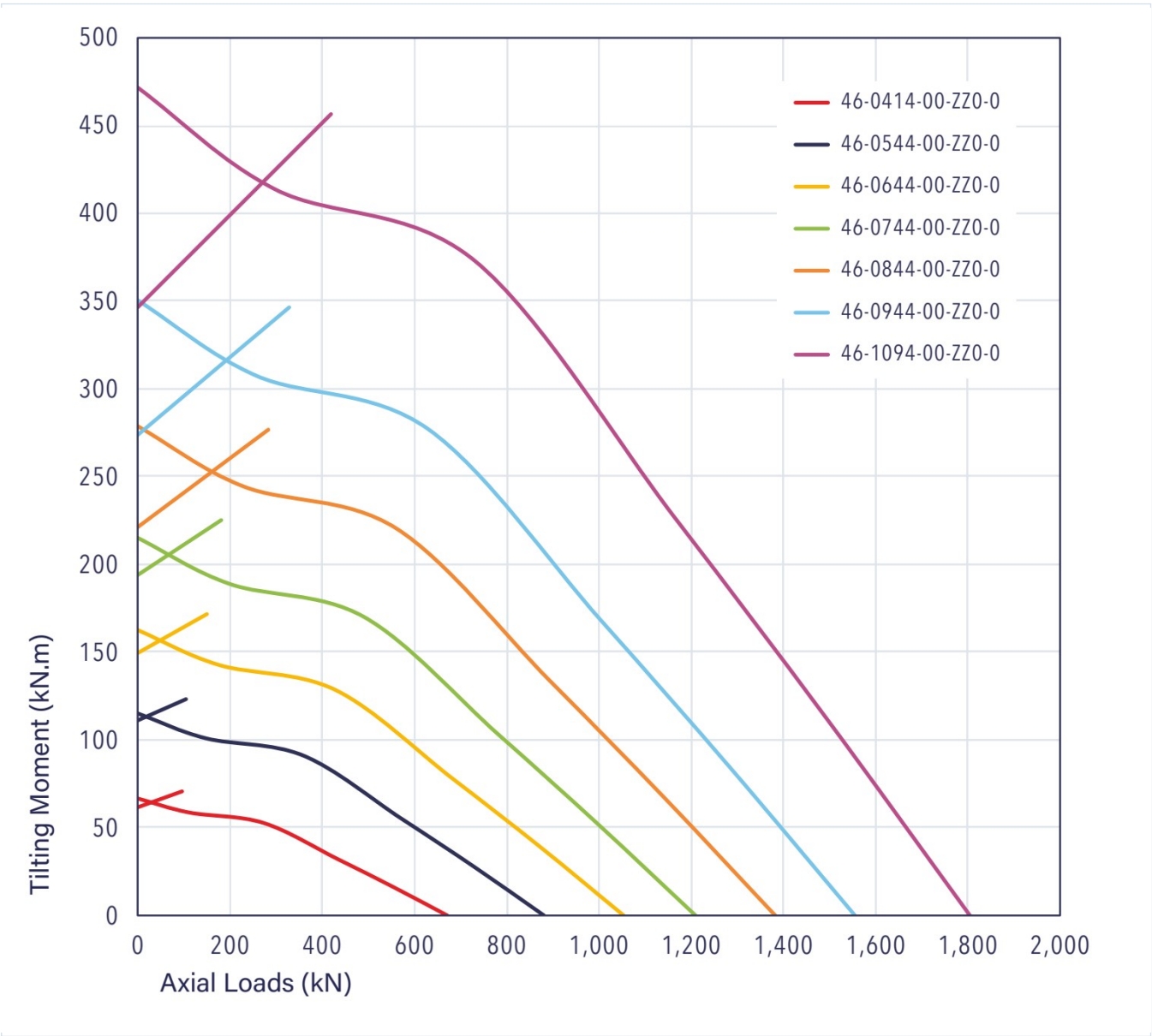
Complete Product Data

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

SOURCE TRACEABILITY (CONTINUED)	
Source document code	ROLLIX-CATALOGUE-SLEWING-RINGS-2024-07
Source file	ROLLIX.pdf
PDF page	120
Printed page	120
Source language	EN
Original unit system	Metric
PUBLISHED TECHNICAL MEDIA	
Load Curve Chart	rollix-page-120-curve.webp SHA-256: 8db3c72c4d15922ba22691da5940bde446bb831dd20545f70889fbe8d4f5f9e2
Outline Drawing	rollix-page-120-drawing.webp SHA-256: 63c4c31735402a19635e964df03a84764c8d8e4cfc2e4426d19fd397071f5224

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-120-curve.webp | SHA-256: 8db3c72c4d15922ba22691da5940bde446bb831dd20545f70889fbe8d4f5f9e2

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 TJYXK7DSJJWRC6F7D6OIRWTWHM	SOURCE DOCUMENT ROLLIX-CATALOGUE-SLEWING-RINGS-2024-07
SOURCE FILE ROLLIX.pdf	SOURCE LOCATION PDF page 120 Printed page 120
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

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Product page: <https://rotnex.com/products/slewing-bearing-replacements/rollix/46-0414-00/>

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