

Factory-Verified Replacement

MERYDOM 47-0644-00

Certified for interchange with ROLLIX 47-0644-00. 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

47-0644-00

REFERENCE

ROLLIX 47-0644-00

SERIES

47 Series

STRUCTURE

Precision roller bearing

OVERALL OD

716 mm

OVERALL ID

547 mm

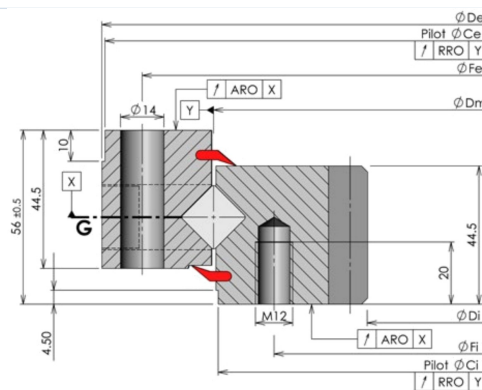
OVERALL HEIGHT

56 mm

GEAR

Internal gear

Published Technical Drawing



rollix-page-121-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	47-0644-00
Certified interchangeable with	ROLLIX 47-0644-00
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	GD7BWA76PYSKTGS5KTSSX3SZWR
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	47 Series
Reference model	47-0644-00
Bearing structure	Precision roller bearing
Gear arrangement	Internal gear
DIMENSION	
Overall outside diameter (Dia De)	716 mm
Overall inside diameter (Dia Di)	547 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)	50 kg
MOUNTING	
Outer ring pilot diameter (Dia Ce)	714 mm
Inner ring pilot diameter (Dia Ci)	641 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)	605 mm
Inner ring mounting-hole count (Ni*)	36
GEAR	
Gear module (Module)	6 mm
Gear tooth count (Number of teeth)	93
Gear run-out (Gear run-out)	0.11 mm
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

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.

PERFORMANCE (CONTINUED)	
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
Static gear resistance (Static Gear Resistance)	39 kN
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
Rating Gear Static Resistance	39 kN 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	
Pitch system	module
Module reference	6 mm
Number of teeth	93
SOURCE TRACEABILITY	

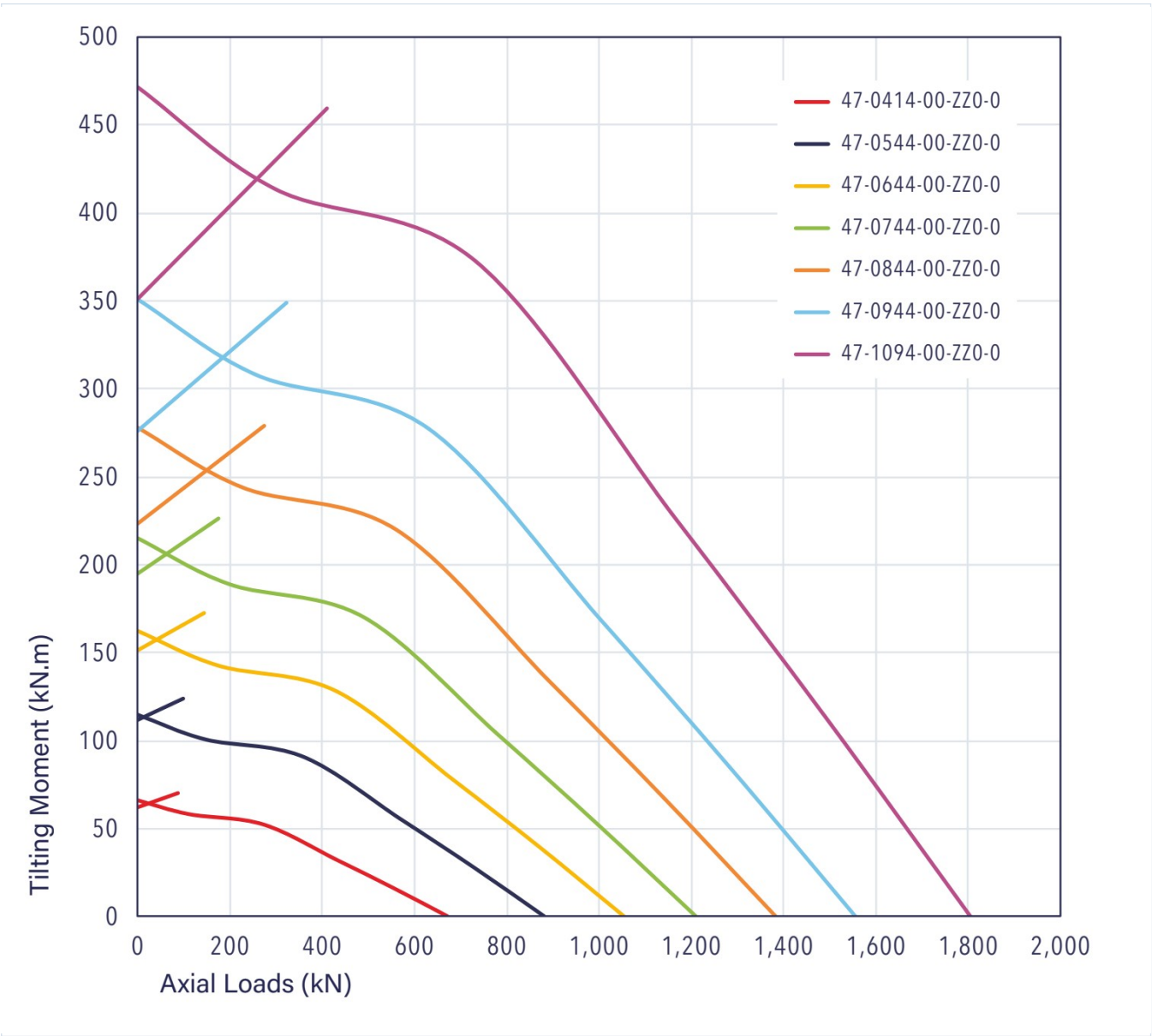
Complete Product Data

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	121
Printed page	121
Source language	EN
Original unit system	Metric
PUBLISHED TECHNICAL MEDIA	
Load Curve Chart	rollix-page-121-curve.webp SHA-256: e1bb9e3c02e4282af92ea48a5bd8f821bee07ecf2194f8ec35283ee84ef20ff7
Outline Drawing	rollix-page-121-drawing.webp SHA-256: bfa3a59a0e4d2cdf62d8d554e573f95df63dd7033d11885877995cbe51f9c803

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-121-curve.webp | SHA-256: e1bb9e3c02e4282af92ea48a5bd8f821bee07ecf2194f8ec35283ee84ef20ff7

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 GD7BWA76PYSKTGS5KTSSX3SZWR	SOURCE DOCUMENT ROLLIX-CATALOGUE-SLEWING-RINGS-2024-07
SOURCE FILE ROLLIX.pdf	SOURCE LOCATION PDF page 121 Printed page 121
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/products/slewing-bearing-replacements/rollix/47-0644-00/>

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.