

Factory-Verified Replacement

MERYDOM E.505.20.00.B

Certified for interchange with Torriani Gianni E.505.20.00.B. 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

E.505.20.00.B

REFERENCE

Torriani Gianni E.505.20.00.B

SERIES

E_20_B Series

STRUCTURE

Esferas de contato de quatro pontos

OVERALL OD

503.3 mm

OVERALL ID

342 mm

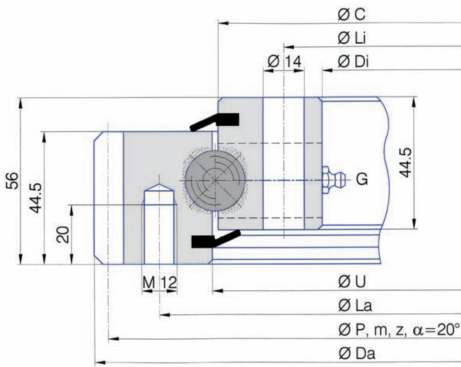
OVERALL HEIGHT

mm

GEAR

Engrenagem externa

Published Technical Drawing



e_20_b-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	E.505.20.00.B
Certified interchangeable with	Torriani Gianni E.505.20.00.B
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	IBZLS65U67IUZXYFNXDPVE5C2Z
MATERIALS	
Configurable ring material options	42CrMo / 50Mn
Seal material	NBR - Nitrile rubber
Configurable spacer material options	Engineering nylon / Brass
IDENTIFICATION	
Reference brand	Torriani Gianni
Reference series	E_20_B Series
Reference model	E.505.20.00.B
Bearing structure	Esferas de contato de quatro pontos
Gear arrangement	Engrenagem externa
DIMENSION	
Overall outside diameter (Da)	503,3 mm
Torriani catalogue dimension U (U)	415,5 mm
Torriani catalogue dimension C (C)	412,5 mm

Complete Product Data

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DIMENSION (CONTINUED)	
Overall inside diameter (Di)	342 mm
Mass (Kg)	31 kg
MOUNTING	
Outer ring bolt circle (La)	455 mm
Outer ring mounting-hole count (na)	20
Inner ring bolt circle (Li)	368 mm
Inner ring mounting-hole count (ni)	24
GEAR	
Gear pitch diameter (P)	495 mm
Gear module (m)	5 mm
Gear tooth count (z)	99
PERFORMANCE	
Normal tooth force (Fz_normal)	10,8 kN
Maximum tooth force (Fz_max)	21,6 kN
PERFORMANCE RATINGS	
Rating Tooth Force Normal	10,8 kN Not simultaneous with other listed dynamic ratings
Rating Tooth Force Max	21,6 kN Not simultaneous with other listed dynamic ratings
MOUNTING INTERFACES	
Outer ring mounting	20 holes -
Inner ring mounting	24 holes -

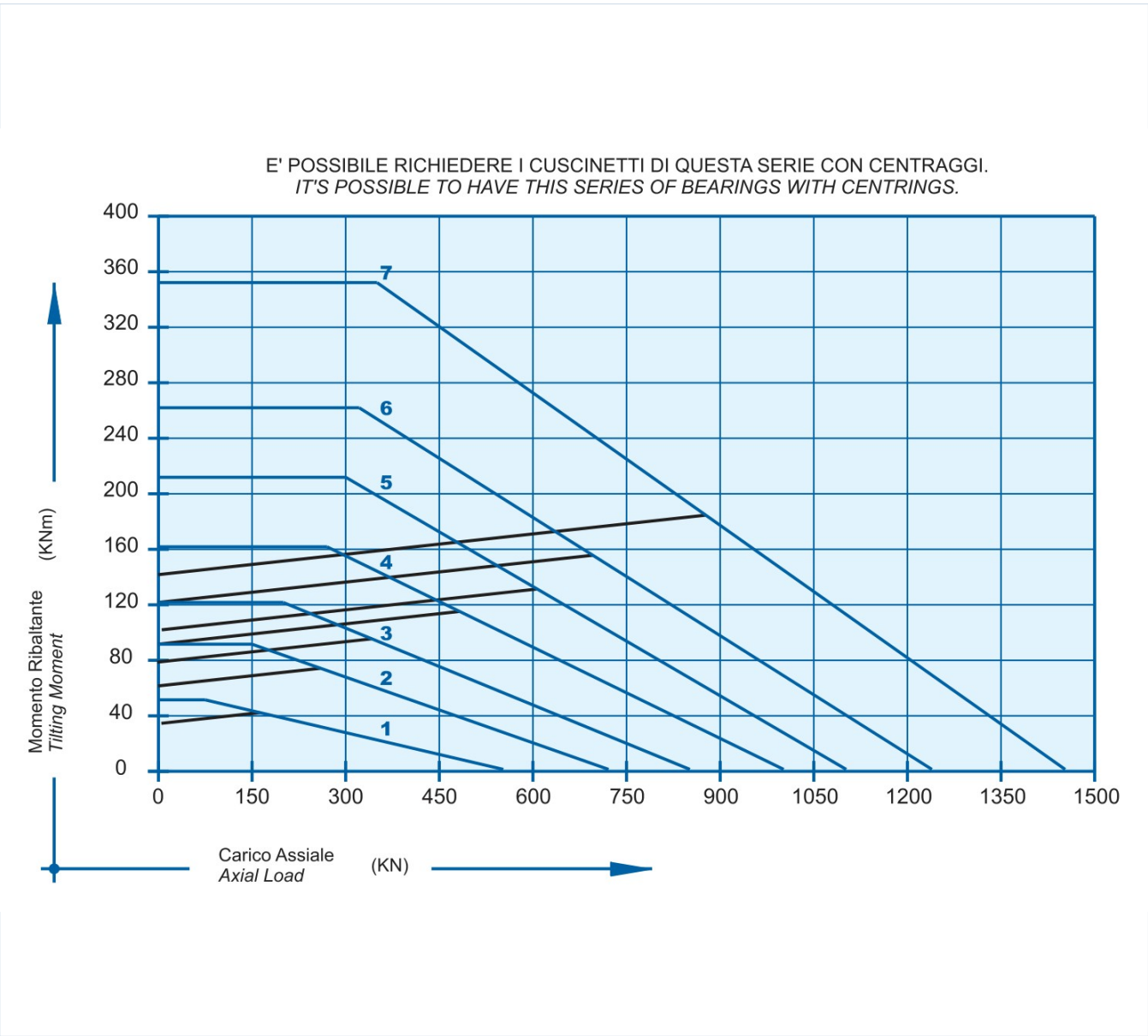
Complete Product Data

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

GEAR INTERFACE	
Pitch system	module
Module reference	5 mm
Number of teeth	99
SOURCE TRACEABILITY	
Source document code	TORRIANI_GIANNI_BALL_BEARINGS_CATALOG
Source file	catalogo-torriani-cuscinetti-a-sfere.pdf
PDF page	18
Printed page	18
Source language	IT-EN
Original unit system	Metric
PUBLISHED TECHNICAL MEDIA	
Load Curve Chart	e_20_b-static-load-curve.webp SHA-256: 6aef5de30b2c0fb19e40cb90efd2b68874d1dbc4f717863b2228c163bc b5fd6b
Outline Drawing	e_20_b-drawing.webp SHA-256: b6ff5222596c320e2f3af101f8fd94e86276755620a969eac8475ee19a 6f57bf

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.



e_20_b-static-load-curve.webp | SHA-256: 6aef5de30b2c0fb19e40cb90efd2b68874d1dbc4f717863b2228c163bcb5fd6b

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

IBZLS65U67IUZXYPNXPVE5C2Z

SOURCE FILE

catalogo-torriani-cuscinetti-a-sfere
.pdf

VERIFICATION

Level 3 - MERYDOM Engineering
Verified

SOURCE DOCUMENT

TORRIANI_GIANNI_BALL_BEARINGS_CATALOG

SOURCE LOCATION

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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/pt/produtos/rolamentos-de-giro-de-substituicao/torriani-gianni/e-505-20-00-b/>

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