

Factory-Verified Replacement

MERYDOM I.535.22.00.D.3.V

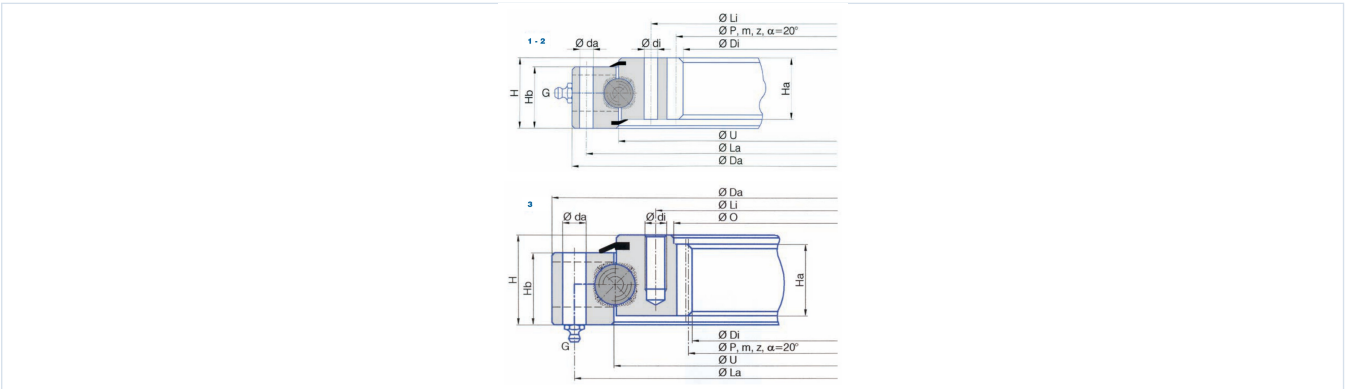
Certified for interchange with Torriani Gianni I.535.22.00.D.3.V. This document consolidates the public product record, complete published specifications, technical media, source traceability and engineering confirmation notes.

**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     | REFERENCE                         |
| I.535.22.00.D.3.V | Torriani Gianni I.535.22.00.D.3.V |
| SERIES            | STRUCTURE                         |
| I_16_22_D Series  | Four-point contact ball           |
| OVERALL OD        | OVERALL ID                        |
| 535 mm            | 380 mm                            |
| OVERALL HEIGHT    | GEAR                              |
| 50 mm             | Internal gear                     |

Published Technical Drawing



i\_16\_22\_d-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                        | I.535.22.00.D.3.V                      |
| Certified interchangeable with       | Torriani Gianni I.535.22.00.D.3.V      |
| Verification status                  | Level 3 - MERYDOM Engineering Verified |
| Reviewed by                          | MERYDOM Engineering Department         |
| Public record UID                    | SA3HR6WHAADNTMQK3OVOIR2NCZ             |
| 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                     | I_16_22_D Series                       |
| Reference model                      | I.535.22.00.D.3.V                      |
| Bearing structure                    | Four-point contact ball                |
| Gear arrangement                     | Internal gear                          |
| DIMENSION                            |                                        |
| Overall outside diameter (Da)        | 535 mm                                 |
| Torriani catalogue dimension U (U)   | 466.5 mm                               |
| Torriani catalogue dimension O (O)   | 400 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)                       |             |
|---------------------------------------------|-------------|
| Overall inside diameter (Di)                | 380 mm      |
| Torriani catalogue dimension Ha (Ha)        | 40 mm       |
| Torriani catalogue dimension Hb (Hb)        | 40 mm       |
| Overall height (H)                          | 50 mm       |
| Mass (Kg)                                   | 32 kg       |
| MOUNTING                                    |             |
| Outer ring bolt circle (La)                 | 510 mm      |
| Outer ring mounting-hole count (na)         | 16          |
| Outer ring mounting-hole specification (da) | 13 mm       |
| Inner ring bolt circle (Li)                 | 420 mm      |
| Inner ring mounting-hole count (ni)         | 16          |
| Inner ring mounting-hole specification (di) | M12x1.25 mm |
| GEAR                                        |             |
| Gear pitch diameter (P)                     | 384 mm      |
| Gear module (m)                             | 4 mm        |
| Gear tooth count (z)                        | 96          |
| PERFORMANCE                                 |             |
| Normal tooth force (Fz_normal)              | 11 kN       |
| Maximum tooth force (Fz_max)                | 22 kN       |
| PERFORMANCE RATINGS                         |             |

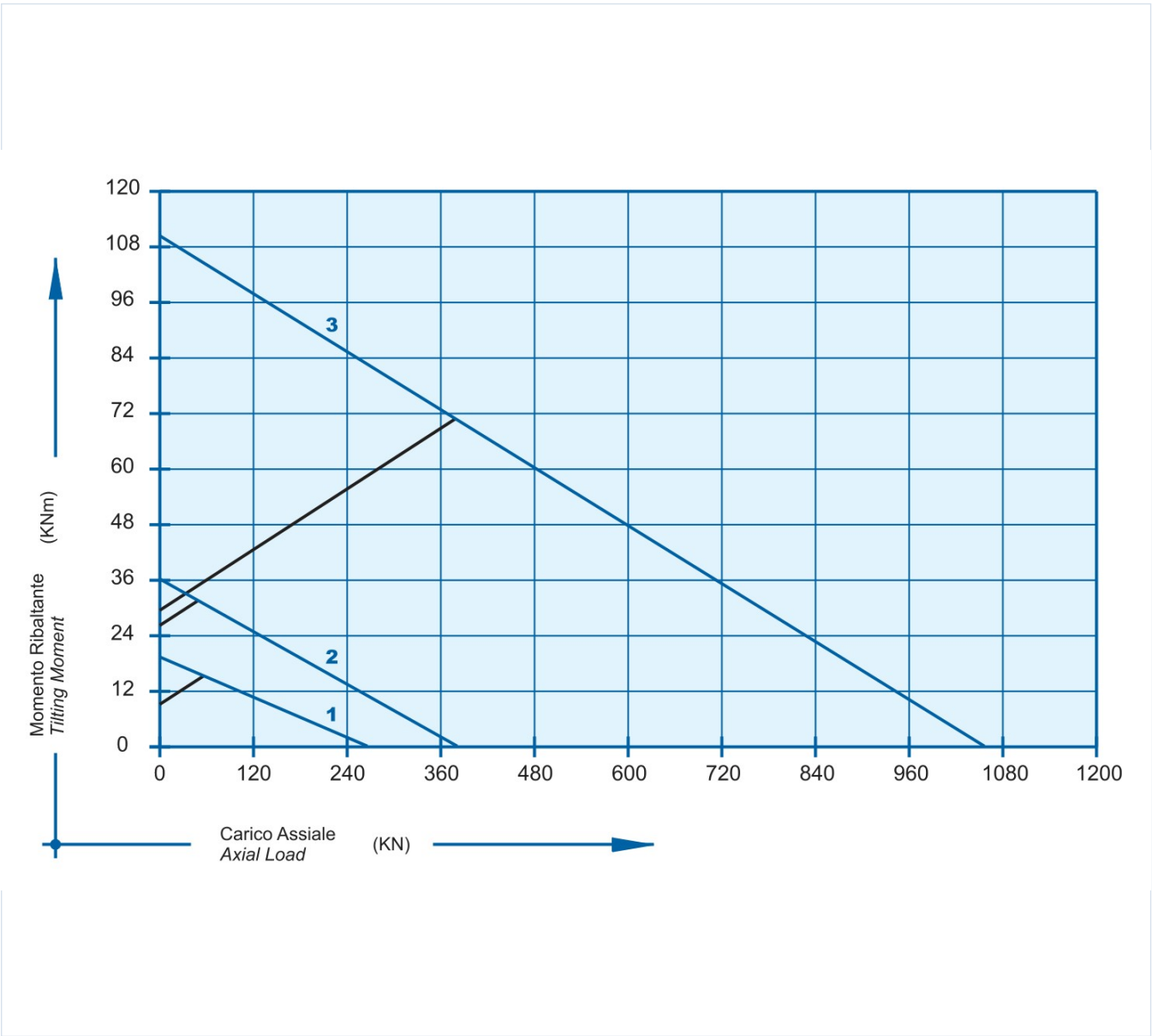
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| PERFORMANCE RATINGS (CONTINUED) |                                                                                                                 |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------|
| Rating Tooth Force Normal       | 11 kN   Not simultaneous with other listed dynamic ratings                                                      |
| Rating Tooth Force Max          | 22 kN   Not simultaneous with other listed dynamic ratings                                                      |
| MOUNTING INTERFACES             |                                                                                                                 |
| Outer ring mounting             | 16 holes - da 13 mm                                                                                             |
| Inner ring mounting             | 16 holes - di M12x1.25                                                                                          |
| GEAR INTERFACE                  |                                                                                                                 |
| Pitch system                    | module                                                                                                          |
| Module reference                | 4 mm                                                                                                            |
| Number of teeth                 | 96                                                                                                              |
| SOURCE TRACEABILITY             |                                                                                                                 |
| Source document code            | TORRIANI_GIANNI_BALL_BEARINGS_CATALOG                                                                           |
| Source file                     | catalogo-torriani-cuscinetti-a-sfere.pdf                                                                        |
| PDF page                        | 13                                                                                                              |
| Printed page                    | 13                                                                                                              |
| Source language                 | IT-EN                                                                                                           |
| Original unit system            | Metric                                                                                                          |
| PUBLISHED TECHNICAL MEDIA       |                                                                                                                 |
| Load Curve Chart                | i_16_22_d-static-load-curve.webp   SHA-256:<br>a1f8dbb33d04a7d5e1d85ebb8c1ee82884c01862cd145477948b1d7f5230d90d |
| Outline Drawing                 | i_16_22_d-drawing.webp   SHA-256:<br>5d060bc99620dee44e8cac69abb59956c0b988d734ab8ea31d1f1dedca<br>d3a34c       |

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.



i\_16\_22\_d-static-load-curve.webp | SHA-256: a1f8dbb33d04a7d5e1d85ebb8c1ee82884c01862cd145477948b1d7f5230d90d

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

SA3HR6WHAADNTMQK3OVOIR2NCZ

### SOURCE FILE

catalogo-torriani-cuscinetti-a-sfere  
.pdf

### VERIFICATION

Level 3 - MERYDOM Engineering  
Verified

### SOURCE DOCUMENT

TORRIANI\_GIANNI\_BALL\_BEARINGS\_CATALOG

### SOURCE LOCATION

PDF page 13 | Printed page 13

### 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](mailto:jovi@merydom.com) | Email: [andi@merydom.com](mailto:andi@merydom.com) | WhatsApp: +86 17705201170

Product page: <https://rotnex.com/products/slewing-bearing-replacements/torriani-gianni/i-535-22-00-d-3-v/>

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