

## PRODUCT DATASHEET

# ES-LM-PI01-M002

## Precision Linear Motion Assembly

Inverted Planetary Roller Screws | ES-LM-PI01 Inverted Planetary Roller Screw Series

### Product Overview

Precision Linear Motion Assembly with nominal diameter 12 mm, ball Screw Lead 3 mm and rated dynamic load  $C_a$  16.5 kN.

### Key Specifications

| PARAMETER                              | VALUE   | UNIT  |
|----------------------------------------|---------|-------|
| Nominal diameter                       | 12      | mm    |
| Ball Screw Lead                        | 3       | mm    |
| Rated dynamic load $C_a$               | 16.5 kN |       |
| Rated static load $C_{0a}$             | 27 kN   |       |
| Forward theoretical efficiency $\eta$  | 0.84    | ratio |
| Reverse theoretical efficiency $\eta'$ | 0.81    | ratio |
| Body diameter D                        | 26      | mm    |
| Thread count N                         | 3       |       |

## Technical Specifications

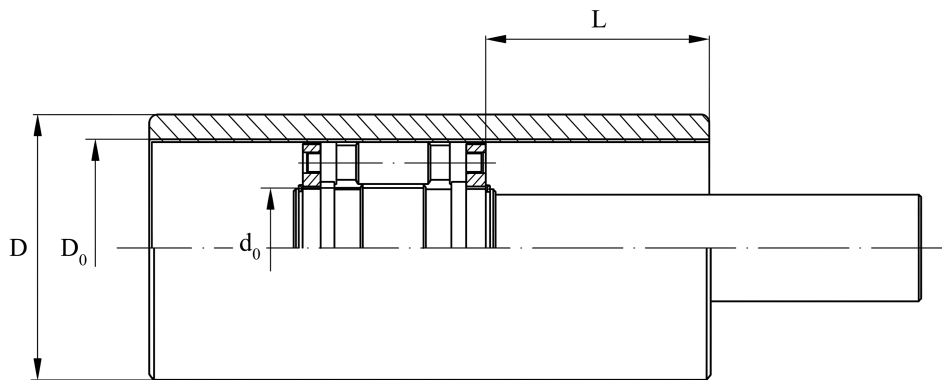
| PARAMETER                              | SPECIFICATION | UNIT  |
|----------------------------------------|---------------|-------|
| PERFORMANCE                            |               |       |
| Rated dynamic load $C_a$               | 16.5 kN       |       |
| Rated static load $C_{0a}$             | 27 kN         |       |
| MECHANICAL                             |               |       |
| Nominal diameter                       | 12            | mm    |
| Ball Screw Lead                        | 3             | mm    |
| ADDITIONAL SPECIFICATIONS              |               |       |
| Forward theoretical efficiency $\eta$  | 0.84          | ratio |
| Reverse theoretical efficiency $\eta'$ | 0.81          | ratio |
| Body diameter D                        | 26            | mm    |
| Thread count N                         | 3             |       |

## Dimensional & Integration Overview

### Mechanical Overview

| PARAMETER        | VALUE | UNIT |
|------------------|-------|------|
| Nominal diameter | 12    | mm   |
| Ball Screw Lead  | 3     | mm   |
| Body diameter D  | 26    | mm   |

### Dimensional Drawings



Mechanical View 1

## 2D Drawing Dimensions & Callouts

| VIEW              | FIELD             | VALUE                   |
|-------------------|-------------------|-------------------------|
| Mechanical View 1 | Overall length L  | L, value not specified  |
|                   | Outer diameter D  | D, value not specified  |
|                   | Outer diameter D0 | D0, value not specified |
|                   | Shaft diameter d0 | d0, value not specified |

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- 01** Specifications are subject to change without notice. Verify the current product configuration before final design release.
- 02** 2D drawings, CAD files and integration documentation are controlled documents and are supplied separately on request.