PRODUCT DATASHEET

ES-LM-PI01-M006

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 15 mm, ball Screw Lead 3 mm and rated dynamic load C_a 29 kN.

Key Specifications

PARAMETER	VALUE	UNIT
Nominal diameter	15	mm
Ball Screw Lead	3	mm
Rated dynamic load C_a	29 kN	
Rated static load C_{oa}	51.5 kN	
Forward theoretical efficiency η	0.83	ratio
Reverse theoretical efficiency η′	0.8	ratio
Body diameter D	32	mm
Thread count N	3	

Technical Specifications

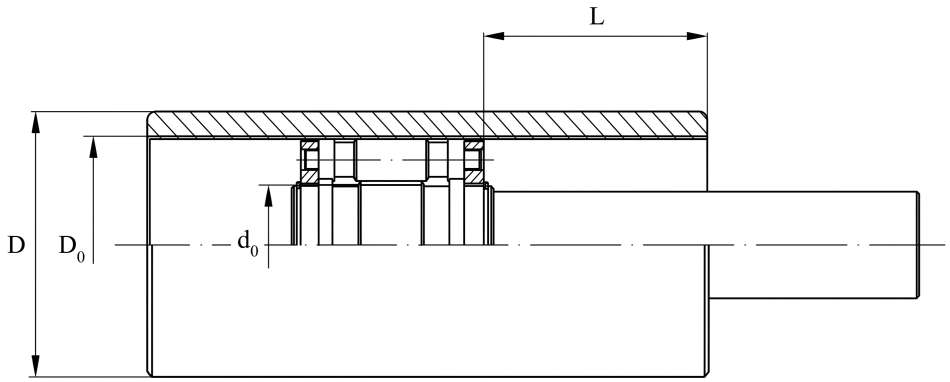
PARAMETER	SPECIFICATION	UNIT
PERFORMANCE		
Rated dynamic load C_a	29 kN	
Rated static load C_{oa}	51.5 kN	
MECHANICAL		
Nominal diameter	15	mm
Ball Screw Lead	3	mm
ADDITIONAL SPECIFICATIONS		
Forward theoretical efficiency η	0.83	ratio
Reverse theoretical efficiency η′	0.8	ratio
Body diameter D	32	mm
Thread count N	3	

Dimensional & Integration Overview

Mechanical Overview

PARAMETER	VALUE	UNIT
Nominal diameter	15	mm
Ball Screw Lead	3	mm
Body diameter D	32	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.