PRODUCT DATASHEET

ES-PS-C32-S001-V007

Precision Linear Motion Assembly

Standard Planetary Roller Screws | Standard Planetary Roller Screw Series

Product Overview

Precision Linear Motion Assembly with nominal diameter 120 mm, ball Screw Lead 15 mm and rated dynamic load C_a 1013 kN.

Key Specifications

PARAMETER	VALUE	UNIT
Nominal diameter	120	mm
Ball Screw Lead	15	mm
Rated dynamic load C_a	1013	kN
Rated static load C_{oa}	3737	kN
Maximum dynamic load C_a	1150	kN
Maximum static load C_{oa}	4111	kN
Forward theoretical efficiency η	0.83	ratio
Reverse theoretical efficiency η´	0.79	ratio
Body diameter D	240	mm

Technical Specifications

PARAMETER	SPECIFICATION	UNIT
PERFORMANCE		
Rated dynamic load C_a	1013	kN
Rated static load C_{oa}	3737	kN
Maximum dynamic load C_a	1150	kN
Maximum static load C_{oa}	4111	kN
MECHANICAL		
Nominal diameter	120	mm
Ball Screw Lead	15	mm
CONFIGURATION		
Development status	Under development	
ADDITIONAL SPECIFICATIONS		
Forward theoretical efficiency η	0.83	ratio
Reverse theoretical efficiency η´	0.79	ratio
Body diameter D	240	mm

Technical Specifications

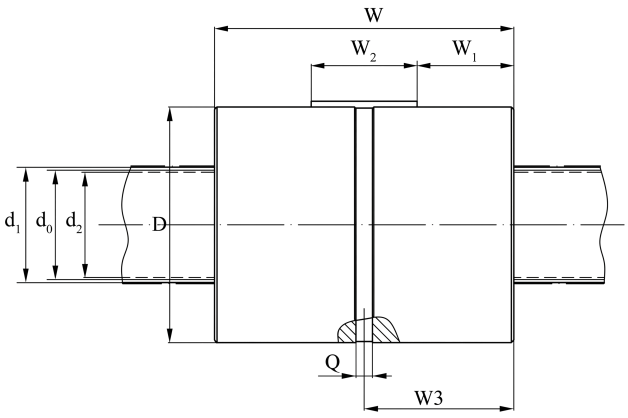
PARAMETER	SPECIFICATION	UNIT
ADDITIONAL SPECIFICATIONS		
Overall length W	300	mm
Thread count N	5	
Segment length W_1	100	mm
Diameter d_0	120	mm
Overall height H	244	mm
Segment length W_2	100	mm
Diameter d_1	121	mm
Diameter d_2	118.5	mm
Segment length W_3	150	mm

Dimensional & Integration Overview

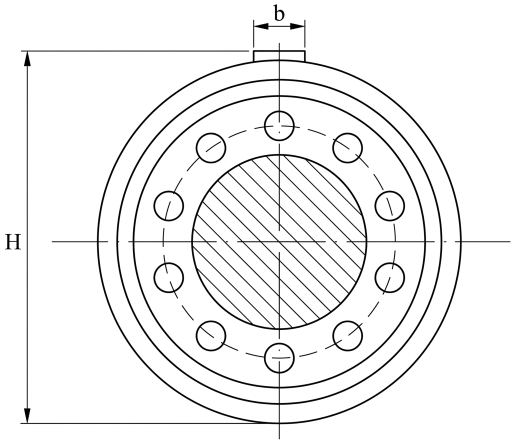
Mechanical Overview

PARAMETER	VALUE	UNIT
Nominal diameter	120	mm
Ball Screw Lead	15	mm
Body diameter D	240	mm
Overall length W	300	mm
Segment length W_1	100	mm
Diameter d_0	120	mm

Dimensional Drawings



Mechanical View 1



Mechanical View 2

2D Drawing Dimensions & Callouts

VIEW	FIELD	VALUE
Mechanical View 1	Overall length W	W
	Segment length W2	W2
	Segment length W1	W1
	Shaft diameters d1, d0 and d2	d1; d0; d2
	Body diameter D	D
	Slot or keyway width Q	Q
	Lower segment length W3	W3
Mechanical View 2	Mounting hole pattern pitch/width symbol	b, value Not specified
	Overall height	H, value Not specified

View Product Online Request Engineering Data Request a Quote

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.