

PRODUCT DATASHEET

ES-PS-C32-S001-V009

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 25 mm and rated dynamic load C_a 1083 kN.

Key Specifications

PARAMETER	VALUE	UNIT
Nominal diameter	120	mm
Ball Screw Lead	25	mm
Rated dynamic load C_a	1083	kN
Rated static load C_{0a}	3750	kN
Maximum dynamic load C_a	1183	kN
Maximum static load C_{0a}	4085	kN
Forward theoretical efficiency η	0.87	ratio
Reverse theoretical efficiency η'	0.85	ratio
Body diameter D	240	mm

Technical Specifications

PARAMETER	SPECIFICATION	UNIT
PERFORMANCE		
Rated dynamic load C_d	1083	kN
Rated static load C_{0a}	3750	kN
Maximum dynamic load C_d	1183	kN
Maximum static load C_{0a}	4085	kN
MECHANICAL		
Nominal diameter	120	mm
Ball Screw Lead	25	mm
CONFIGURATION		
Development status	Standard listing	
ADDITIONAL SPECIFICATIONS		
Forward theoretical efficiency η	0.87	ratio
Reverse theoretical efficiency η'	0.85	ratio
Body diameter D	240	mm

Technical Specifications

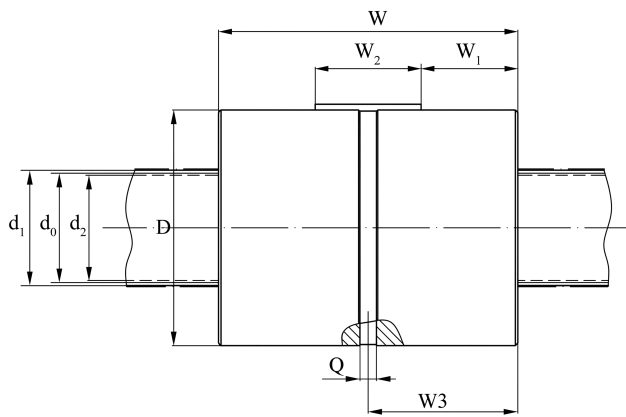
PARAMETER	SPECIFICATION	UNIT
ADDITIONAL SPECIFICATIONS		
Overall length W	300	mm
Thread count N	5	
Segment length W ₁	100	mm
Diameter d ₀	120	mm
Overall height H	244	mm
Segment length W ₂	100	mm
Diameter d ₁	121.8	mm
Diameter d ₂	117.5	mm
Segment length W ₃	150	mm

Dimensional & Integration Overview

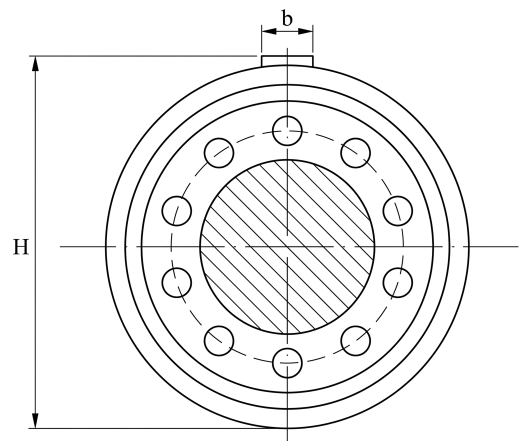
Mechanical Overview

PARAMETER	VALUE	UNIT
Nominal diameter	120	mm
Ball Screw Lead	25	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

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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.