PRODUCT DATASHEET

ES-PS-C32-S001-V085

Precision Linear Motion Assembly

Standard Planetary Roller Screws | Standard Planetary Roller Screw Series

Product Overview

Precision Linear Motion Assembly with nominal diameter 12 mm, ball Screw Lead 5 mm and rated dynamic load C_a 14 kN.

Key Specifications

PARAMETER	VALUE	UNIT
Nominal diameter	12	mm
Ball Screw Lead	5	mm
Rated dynamic load C_a	14	kN
Rated static load C_{oa}	19	kN
Maximum dynamic load C_a	15	kN
Maximum static load C_{oa}	21	kN
Forward theoretical efficiency η	0.89	ratio
Reverse theoretical efficiency η´	0.88	ratio
Body diameter D	30	mm

Technical Specifications

PARAMETER	SPECIFICATION	UNIT
PERFORMANCE		
Rated dynamic load C_a	14	kN
Rated static load C_{oa}	19	kN
Maximum dynamic load C_a	15	kN
Maximum static load C_{oa}	21	kN
MECHANICAL		
Nominal diameter	12	mm
Ball Screw Lead	5	mm
Interface thread Q	M6	
Mounting hole pattern G	6×φ4.8	
CONFIGURATION		
Development status	Standard listing	
ADDITIONAL SPECIFICATIONS		
Forward theoretical efficiency η	0.89	ratio

Technical Specifications

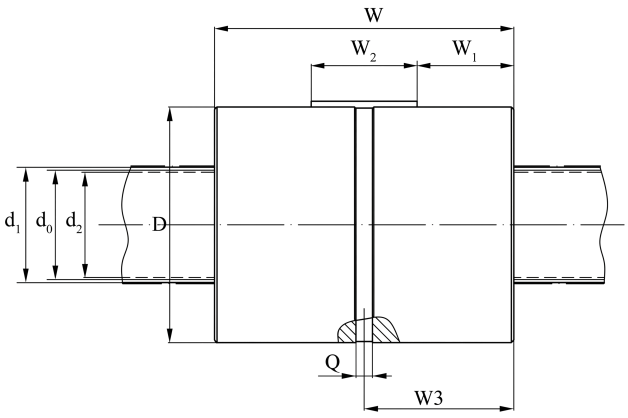
PARAMETER	SPECIFICATION	UNIT
ADDITIONAL SPECIFICATIONS		
Reverse theoretical efficiency η′	0.88	ratio
Body diameter D	30	mm
Overall length W	44	mm
Thread count N	5	
Segment length W_1	14	mm
Diameter d_0	12	mm
Segment length W_2	16	mm
Angle α	30	°
Diameter d_1	12.3	mm
Diameter d_2	11.5	mm

Dimensional & Integration Overview

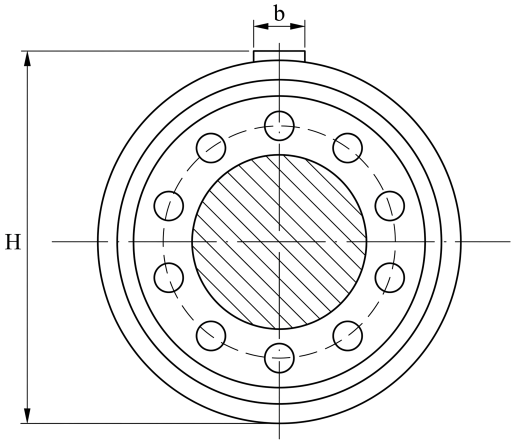
Mechanical Overview

PARAMETER	VALUE	UNIT
Nominal diameter	12	mm
Ball Screw Lead	5	mm
Interface thread Q	M6	
Mounting hole pattern G	6×φ4.8	
Body diameter D	30	mm
Overall length W	44	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.