PRODUCT DATASHEET

ES-PS-C32-S001-V133

Precision Linear Motion Assembly

Standard Planetary Roller Screws | Standard Planetary Roller Screw Series

Product Overview

Precision Linear Motion Assembly with nominal diameter 60 mm, ball Screw Lead 5 mm and rated dynamic load C_a 302 kN.

Key Specifications

PARAMETER	VALUE	UNIT
Nominal diameter	60	mm
Ball Screw Lead	5	mm
Rated dynamic load C_a	302	kN
Rated static load C_{oa}	838	kN
Maximum dynamic load C_a	322	kN
Maximum static load C_{oa}	922	kN
Forward theoretical efficiency η	0.78	ratio
Reverse theoretical efficiency η´	0.71	ratio
Body diameter D	122	mm

Technical Specifications

PARAMETER	SPECIFICATION	UNIT
PERFORMANCE		
Rated dynamic load C_a	302	kN
Rated static load C_{oa}	838	kN
Maximum dynamic load C_a	322	kN
Maximum static load C_{oa}	922	kN
MECHANICAL		
Nominal diameter	60	mm
Ball Screw Lead	5	mm
Interface thread Q	M8×1	
Mounting hole pattern G	6×φ17.5	
CONFIGURATION		
Development status	Standard listing	
ADDITIONAL SPECIFICATIONS		
Forward theoretical efficiency η	0.78	ratio

Technical Specifications

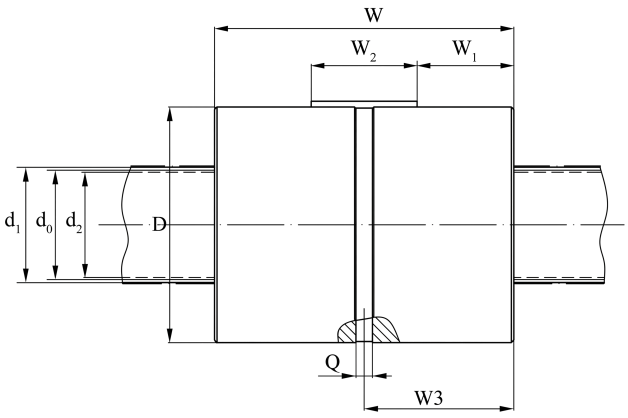
PARAMETER	SPECIFICATION	UNIT
ADDITIONAL SPECIFICATIONS		
Reverse theoretical efficiency η′	0.71	ratio
Body diameter D	122	mm
Overall length W	152	mm
Thread count N	5	
Segment length W_1	53.5	mm
Diameter d_0	60	mm
Segment length W_2	45	mm
Angle α	30	°
Diameter d_1	60.3	mm
Diameter d_2	59.5	mm

Dimensional & Integration Overview

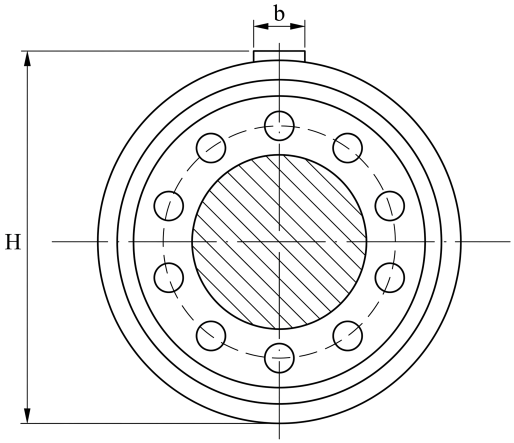
Mechanical Overview

PARAMETER	VALUE	UNIT
Nominal diameter	60	mm
Ball Screw Lead	5	mm
Interface thread Q	M8×1	
Mounting hole pattern G	6×φ17.5	
Body diameter D	122	mm
Overall length W	152	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.