PRODUCT DATASHEET

ES-PS-C32-S001-V049

Precision Linear Motion Assembly

Standard Planetary Roller Screws | Standard Planetary Roller Screw Series

Product Overview

Precision Linear Motion Assembly with nominal diameter 51 mm, ball Screw Lead 5 mm and rated dynamic load C_a 244 kN.

Key Specifications

PARAMETER	VALUE	UNIT
Nominal diameter	51	mm
Ball Screw Lead	5	mm
Rated dynamic load C_a	244	kN
Rated static load C_{oa}	650	kN
Maximum dynamic load C_a	260	kN
Maximum static load C_{oa}	715	kN
Forward theoretical efficiency η	0.8	ratio
Reverse theoretical efficiency η´	0.75	ratio
Body diameter D	102	mm

Technical Specifications

PARAMETER	SPECIFICATION	UNIT
PERFORMANCE		
Rated dynamic load C_a	244	kN
Rated static load C_{oa}	650	kN
Maximum dynamic load C_a	260	kN
Maximum static load C_{oa}	715	kN
MECHANICAL		
Nominal diameter	51	mm
Ball Screw Lead	5	mm
CONFIGURATION		
Development status	Standard listing	
ADDITIONAL SPECIFICATIONS		
Forward theoretical efficiency η	0.8	ratio
Reverse theoretical efficiency η´	0.75	ratio
Body diameter D	102	mm

Technical Specifications

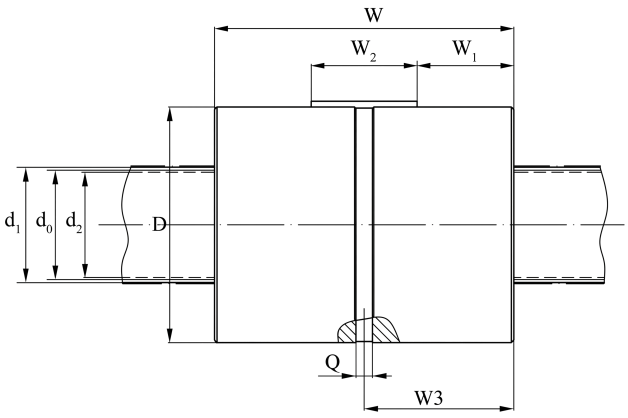
PARAMETER	SPECIFICATION	UNIT
ADDITIONAL SPECIFICATIONS		
Overall length W	139	mm
Thread count N	5	
Segment length W_1	47	mm
Diameter d_0	51	mm
Overall height H	105	mm
Segment length W_2	45	mm
Diameter d_1	51.3	mm
Diameter d_2	50.5	mm
Segment length W_3	69.5	mm

Dimensional & Integration Overview

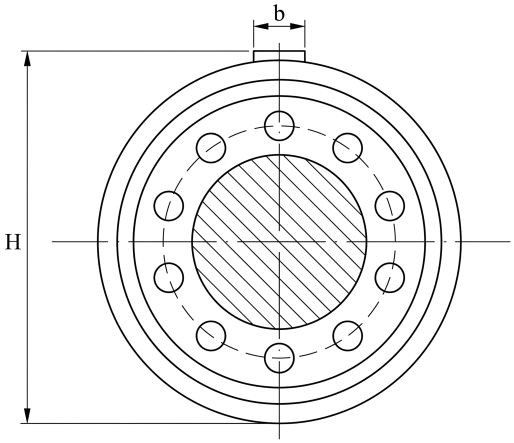
Mechanical Overview

PARAMETER	VALUE	UNIT
Nominal diameter	51	mm
Ball Screw Lead	5	mm
Body diameter D	102	mm
Overall length W	139	mm
Segment length W_1	47	mm
Diameter d_0	51	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.