PRODUCT DATASHEET

ES-PS-C32-S001-V056

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 20 mm and rated dynamic load C_a 424 kN.

Key Specifications

PARAMETER	VALUE	UNIT
Nominal diameter	60	mm
Ball Screw Lead	20	mm
Rated dynamic load C_a	424	kN
Rated static load C_{oa}	873	kN
Maximum dynamic load C_a	452	kN
Maximum static load C_{oa}	961	kN
Forward theoretical efficiency η	0.89	ratio
Reverse theoretical efficiency η´	0.88	ratio
Body diameter D	122	mm

Technical Specifications

PARAMETER	SPECIFICATION	UNIT
PERFORMANCE		
Rated dynamic load C_a	424	kN
Rated static load C_{oa}	873	kN
Maximum dynamic load C_a	452	kN
Maximum static load C_{oa}	961	kN
MECHANICAL		
Nominal diameter	60	mm
Ball Screw Lead	20	mm
CONFIGURATION		
Development status	Standard listing	
ADDITIONAL SPECIFICATIONS		
Forward theoretical efficiency η	0.89	ratio
Reverse theoretical efficiency η´	0.88	ratio
Body diameter D	122	mm

Technical Specifications

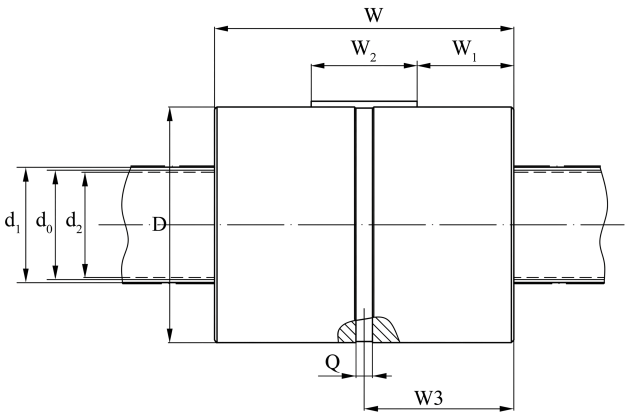
PARAMETER	SPECIFICATION	UNIT
ADDITIONAL SPECIFICATIONS		
Overall length W	152	mm
Thread count N	5	
Segment length W_1	53.5	mm
Diameter d_0	60	mm
Overall height H	125	mm
Segment length W_2	45	mm
Diameter d_1	61.4	mm
Diameter d_2	58	mm
Segment length W_3	76	mm

Dimensional & Integration Overview

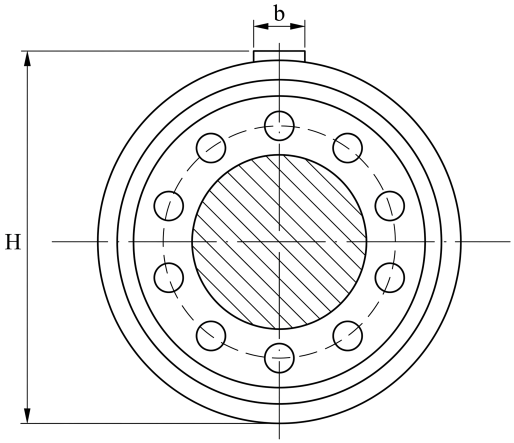
Mechanical Overview

PARAMETER	VALUE	UNIT
Nominal diameter	60	mm
Ball Screw Lead	20	mm
Body diameter D	122	mm
Overall length W	152	mm
Segment length W_1	53.5	mm
Diameter d_0	60	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.