PRODUCT DATASHEET

ES-PS-C32-S001-V047

Precision Linear Motion Assembly

Standard Planetary Roller Screws | Standard Planetary Roller Screw Series

Product Overview

Precision Linear Motion Assembly with nominal diameter 48 mm, ball Screw Lead 20 mm and rated dynamic load C_a 303 (N=5) / 209 (N=6) kN.

Key Specifications

PARAMETER	VALUE	UNIT
Nominal diameter	48	mm
Ball Screw Lead	20	mm
Rated dynamic load C_a	303 (N=5) / 209 (N=6)	kN
Rated static load C_{oa}	512 (N=5) / 383 (N=6)	kN
Maximum dynamic load C_a	325 (N=5) / 220 (N=6)	kN
Maximum static load C_{oa}	569 (N=5) / 415 (N=6)	kN
Forward theoretical efficiency η	0.89	ratio
Reverse theoretical efficiency η´	0.88	ratio
Body diameter D	100 (N=5) / 88 (N=6)	mm

Technical Specifications

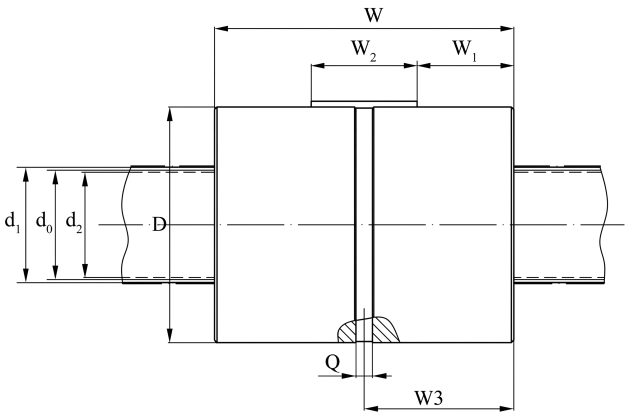
PARAMETER	SPECIFICATION	UNIT
PERFORMANCE		
Rated dynamic load C_a	303 (N=5) / 209 (N=6)	kN
Rated static load C_{oa}	512 (N=5) / 383 (N=6)	kN
Maximum dynamic load C_a	325 (N=5) / 220 (N=6)	kN
Maximum static load C_{oa}	569 (N=5) / 415 (N=6)	kN
MECHANICAL		
Nominal diameter	48	mm
Ball Screw Lead	20	mm
ADDITIONAL SPECIFICATIONS		
Forward theoretical efficiency η	0.89	ratio
Reverse theoretical efficiency η´	0.88	ratio
Body diameter D	100 (N=5) / 88 (N=6)	mm
Overall length W	127 (N=5) / 99 (N=6)	mm
Overall height H	103 (N=5) / 91 (N=6)	mm
Thread count N	5 (N=5) / 6 (N=6)	

Dimensional & Integration Overview

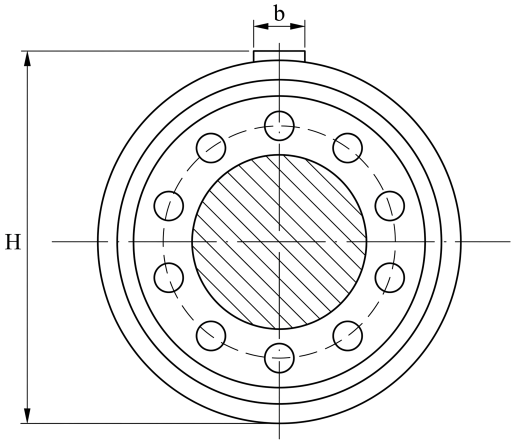
Mechanical Overview

PARAMETER	VALUE	UNIT
Nominal diameter	48	mm
Ball Screw Lead	20	mm
Body diameter D	100 (N=5) / 88 (N=6)	mm
Overall length W	127 (N=5) / 99 (N=6)	mm
Overall height H	103 (N=5) / 91 (N=6)	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

View Product Online Request Engineering Data Request a Quote

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.