

PRODUCT DATASHEET

ES-PS-C32-S001-V081

Precision Linear Motion Assembly

Standard Planetary Roller Screws | Standard Planetary Roller Screw Series

Product Overview

Precision Linear Motion Assembly with nominal diameter 100 mm, ball Screw Lead 25 mm and rated dynamic load C_a 901 kN.

Key Specifications

PARAMETER	VALUE	UNIT
Nominal diameter	100	mm
Ball Screw Lead	25	mm
Rated dynamic load C_a	901	kN
Rated static load C_{0a}	2748	kN
Maximum dynamic load C_a	960	kN
Maximum static load C_{0a}	3023	kN
Forward theoretical efficiency η	0.88	ratio
Reverse theoretical efficiency η'	0.87	ratio
Body diameter D	200	mm

Technical Specifications

PARAMETER	SPECIFICATION	UNIT
PERFORMANCE		
Rated dynamic load C_d	901	kN
Rated static load C_{0a}	2748	kN
Maximum dynamic load C_d	960	kN
Maximum static load C_{0a}	3023	kN
MECHANICAL		
Nominal diameter	100	mm
Ball Screw Lead	25	mm
Interface thread Q	M8×1	
Mounting hole pattern G	12× ϕ 17.5	
CONFIGURATION		
Development status	Under development	
ADDITIONAL SPECIFICATIONS		
Forward theoretical efficiency η	0.88	ratio

Technical Specifications

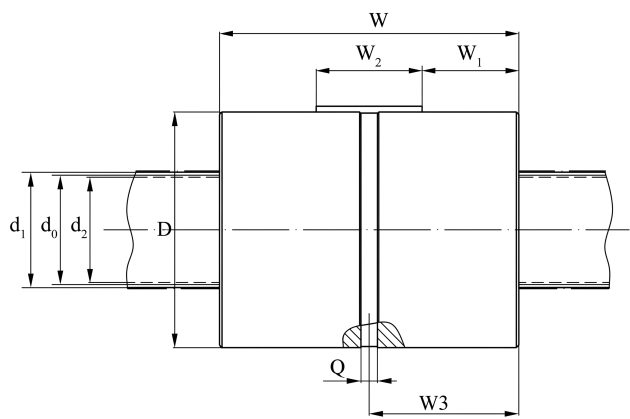
PARAMETER	SPECIFICATION	UNIT
ADDITIONAL SPECIFICATIONS		
Reverse theoretical efficiency η'	0.87	ratio
Body diameter D	200	mm
Overall length W	260	mm
Thread count N	5	
Segment length W_1	102.5	mm
Diameter d_0	99	mm
Segment length W_2	55	mm
Angle α	15	°
Diameter d_1	100.8	mm
Diameter d_2	96.5	mm

Dimensional & Integration Overview

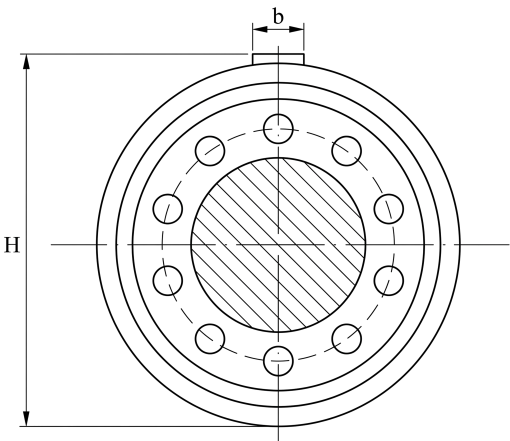
Mechanical Overview

PARAMETER	VALUE	UNIT
Nominal diameter	100	mm
Ball Screw Lead	25	mm
Interface thread Q	M8×1	
Mounting hole pattern G	12×φ17.5	
Body diameter D	200	mm
Overall length W	260	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.