

PRODUCT DATASHEET

ES-PS-C32-S001-V148

Precision Linear Motion Assembly

Standard Planetary Roller Screws | Standard Planetary Roller Screw Series

Product Overview

Precision Linear Motion Assembly with nominal diameter 87 mm, ball Screw Lead 15 mm and rated dynamic load C_a 610 kN.

Key Specifications

PARAMETER	VALUE	UNIT
Nominal diameter	87	mm
Ball Screw Lead	15	mm
Rated dynamic load C_a	610	kN
Rated static load C_{0a}	1644	kN
Maximum dynamic load C_a	646	kN
Maximum static load C_{0a}	1808	kN
Forward theoretical efficiency η	0.86	ratio
Reverse theoretical efficiency η'	0.84	ratio
Body diameter D	175	mm

Technical Specifications

PARAMETER	SPECIFICATION	UNIT
PERFORMANCE		
Rated dynamic load C_a	610	kN
Rated static load C_{0a}	1644	kN
Maximum dynamic load C_a	646	kN
Maximum static load C_{0a}	1808	kN
MECHANICAL		
Nominal diameter	87	mm
Ball Screw Lead	15	mm
Interface thread Q	M8×1	
Mounting hole pattern G	10× ϕ 17.5	
CONFIGURATION		
Development status	Under development	
ADDITIONAL SPECIFICATIONS		
Forward theoretical efficiency η	0.86	ratio

Technical Specifications

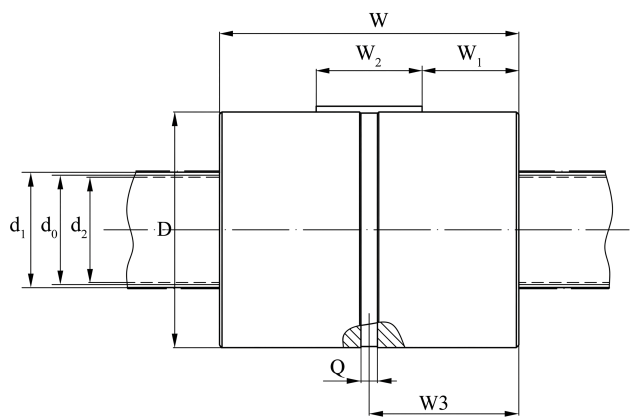
PARAMETER	SPECIFICATION	UNIT
ADDITIONAL SPECIFICATIONS		
Reverse theoretical efficiency η'	0.84	ratio
Body diameter D	175	mm
Overall length W	215	mm
Thread count N	5	
Segment length W_1	82.5	mm
Diameter d_0	87	mm
Segment length W_2	50	mm
Angle α	18	°
Diameter d_1	87.2	mm
Diameter d_2	85.5	mm

Dimensional & Integration Overview

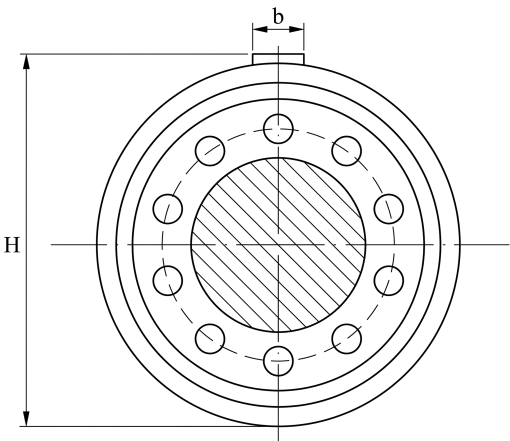
Mechanical Overview

PARAMETER	VALUE	UNIT
Nominal diameter	87	mm
Ball Screw Lead	15	mm
Interface thread Q	M8×1	
Mounting hole pattern G	10×φ17.5	
Body diameter D	175	mm
Overall length W	215	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.