

TECHNICAL ENGINEERING SPECIFICATION

Multi-Angle Precision Bushing & Pin Inspection Report

Manufacturer:	ESS KAY ENGINEERS	Report Date:	July 1, 2026
Component:	Precision Hollow Gudgeon Pin / Dowel Pin	Document Ref:	EKE-PP-2026-02B

1. Multi-View Orthographic & Isometric Analysis

The layout below details the component under four distinct technical angles (ISO 1, Side, ISO 2, and End profiles) illustrating the micro-polished cylindrical surface finish, chamfered inner/outer edge radii, and geometric concentricity.

ISO 1



ISO 1

SIDE



SIDE



ISO 2



END

2. Engineering & Manufacturing Characteristics

Structural Specifications

- **Surface Treatment:** High-mirror chrome or ground finish providing ultra-low friction coefficients and optimal wear resistance under high mechanical stress.
- **Concentric Core Design:** Hollow pass-through center reduces reciprocating mass while maintaining superior torsional and structural integrity.
- **Edge Chamfering:** Precision uniform entry chamfers on outer and inner perimeters ensure scratch-free press-fit installation.
- **Branding & Authenticity:** Monitored under standard strict QC guidelines by ESS KAY ENGINEERS, assuring high roundness tolerance standards.