

TECHNICAL PRODUCT SPECIFICATION

Precision Knurled Spline Drive Shaft Documentation

Manufacturer:	ESS KAY ENGINEERS	Report Date:	July 1, 2026
Component:	Precision Knurled 21T Spline Input Shaft	Document Ref:	EKE-KS-2026-10H

1. Multi-Axis Orthographic & Inspection Layout

The engineering blueprint drawing below specifies the architectural parameters of the high-precision input shafts across four indexed viewing angles: Isometric Perspective (Angle 1), Elevation Profile with annotation callouts (Angle 2), Bottom Perspective (Angle 3), and Top Orthogonal Plan views detailing mechanical stamping definitions (Angle 4).



2. Engineering Parameters & Structural Specifications

Mechanical Feature Profile

- Code Stamped Identification Markings: **EG1363155 / AH10314 / DD FULL** etched permanently onto the cylindrical core body for traceable parts tracking.
- Involute Gear Spline Head: Features a **1.25 Module, 20° Pressure Angle (PA), 21-Teeth (21T)** straight spline configuration optimized for absolute positive engagement.
- High-Friction Diamond Knurling: Finished with a **0.8 pitch** full-surface cross-hatch pattern providing slip-free manual torque interaction or localized press-fit bite.
- Coaxial Mounting Core Bores: Symmetrical alignment center bores machined directly into the outer pin tip faces to ensure proper rotational concentricity during multi-axis balancing audits.