

TECHNICAL PRODUCT SPECIFICATION

Precision Linear Serrated Gripper & Jaw Bar Component

Manufacturer:	ESS KAY ENGINEERS	Report Date:	July 1, 2026
Component:	Industrial Linear Gear Rack & Serrated Clamping Bar	Document Ref:	EKE-SB-2026-17M

1. Blueprint Drawing & Orthographic Projections

The detailed manufacturing diagram below outlines the structural specifications of the serrated gripper bar component from four standard viewpoints: Isometric View 1, a fully-dimensioned Top View, a detailed side schematic (Side Elevation) identifying the serration pitch, and an axial profile projection (End View).



2. Engineering Parameters & Mechanical Features

Structural Clamping Design Characteristics

- **Uniform Serration Profile:** Precision-milled transverse teeth along the upper surface designed for non-slip linear positioning, high-friction gripping jaws, or indexing tracking systems.
- **Solid Retaining Terminals:** Square un-serrated solid steel end faces engineered to allow rigid tool chuck clamping or robust welding setups into fixture systems.
- **Tapered End Alignment:** Features a clean, angular relief cut on the terminal end face (clearly visible in the Side Elevation schematic) to prevent interference within specialized machinery nests.
- **Quality Engineering Audit:** Formulated, machined, and monitored under stringent metrology protocols by ESS KAY ENGINEERS to ensure straightness, precise pitch width, and optimal fatigue wear resistance.