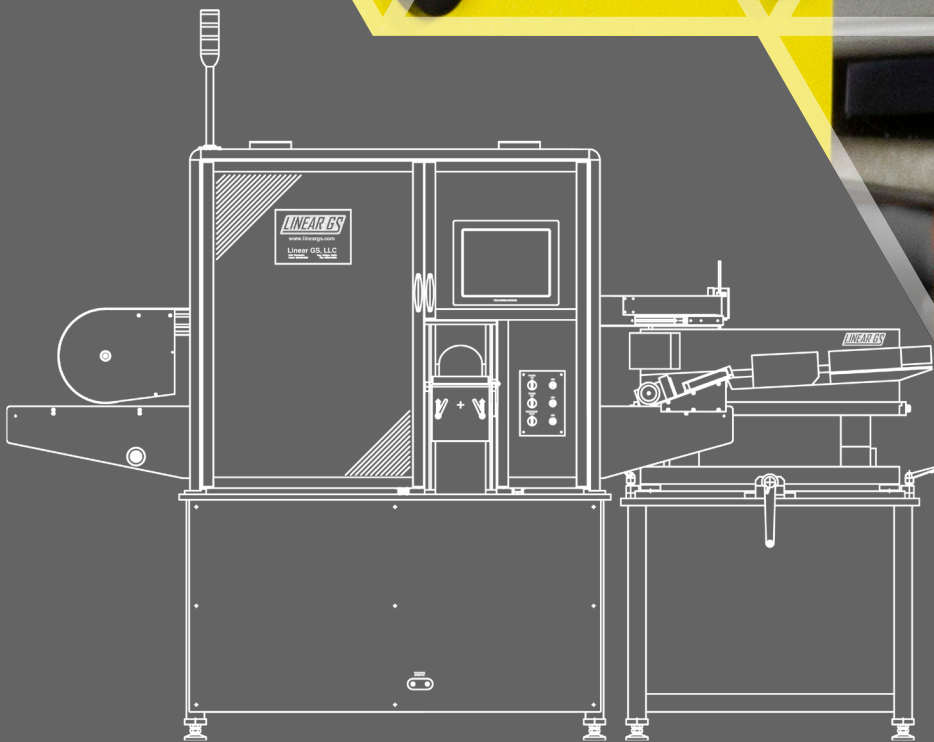


XLT Model



**Fastener
Inspection
Machines**



Model: XLT, Dual Belt, Extra Large Conveyor Inspection Machine, US/CE Compliant
Series: 4000 through 8000

Production Rate: 500 to 1000ppm, based on M8-1.25 x 25mm long fastener
Product Type: Ferrous and non-ferrous based fasteners, including nuts, weld nuts, rivnuts, washers, clips, non-collared studs and headed bolts M5 to M19 x 140mm in length, depending on part stability
Vision Field of View (FOV): 40mm horizontal x 150mm vertical
Inspection Cameras: Standard or telecentric camera lenses available

XLT Inspection Machine Capabilities: LC (Lower Conveyor) & UC (Upper Conveyor)

LC-Camera 1:	Top down view with adjustable front lighting (40mm FOV), Resolution .00062" Drive Recess (Fill/Missing area) Surface Defects Riverbed Cracks
UC-Camera 2:	Side view with backlight (40mm x 150mm FOV), Resolution .0014" Length Head Height Shank Length Shoulder Diameter, min/max/avg/angle and variance Point (Pilot) attributes Threads: Major diameter Major Variance Minor diameter Maximum Average Thread Match % Pattern detection of filled or missing threads
UC-Camera 3 @ 90°:	Side view with backlight (40mm x 150mm FOV), Resolution .0014" Turned Head; Side view comparison and average of hex head width Bolt straightness, features of bolt can affect reading
LC-Camera 4:	Top down view with adjustable front lighting and adjustable iris back lighting (40mm FOV), Resolution .00062" Perimeter and open burst cracks, open cracks visible at OD, in silhouette view of part, part standing on head viewed down Diameter; min/max/avg Ovality/Roundness of head OD Hex(no flange) min/max diameter Bearing surface defects Burrs Weld Nibs
UC-Camera 5:	Top angle view with front light (20mm FOV). Resolution >.0005" Threads; Presence



XLT Inspection Machine Options

<p>Custom Inspection Options Includes additional camera configurations</p>	<p>360° surface detection Color detection Additional measurement detection</p>
<p>Recirculation Conveyor Option Includes part return conveyance system</p>	<p>The undetermined fasteners are recirculated into the inspection and sorting machine feed system for re-inspection.</p>
<p>Bolt Feed System Options Includes heavy duty adjustable base on all systems</p>	<p>21" Drive, Vibratory stainless steel tooled bowl for smaller size bolt fasteners 24" Drive, Vibratory stainless steel tooled bowl for medium size bolt fasteners 30" Drive, Vibratory stainless steel tooled bowl for large size bolt fasteners 36" Drive, Vibratory stainless steel tooled bowl for extra large size bolt fasteners Custom sound enclosure available with easy access for feed system tooling change over</p>
<p>Nut Feed System Options Includes heavy duty adjustable base on all systems</p>	<p>21" Drive, Vibratory stainless steel tooled bowl for smaller size nut fasteners 24" Drive, Vibratory stainless steel tooled bowl for medium size nut fasteners Custom sound enclosure available with easy access for feed system tooling change over</p>
<p>Bulk Material Handling Options Includes heavy duty internally lined hoppers</p>	<p>3ft³ Hopper mounted to bowl table for smaller size fasteners 10 ft³ and 12ft³ Hopper, Floor style loader with lift-up conveyor and variable speed motor for smaller to medium size fasteners 19ft³ Hopper, High Flow, Tub dump style loader for medium to large size fasteners Dust collection units available for inspection machine and material handling components</p>
<p>Packaging for Inspected Product Includes boxing and top sealing options</p>	<p>1/4 Keg box, 5 unit packaging system with storage conveyor 1/4 Keg box, 10 unit packaging system with storage conveyor 1/4 keg box, Automatic top fold and tape sealer</p>
<p>Custom Optics Telecentric lens / lighting and high resolution camera options</p>	<p>Cameras, 1 to 25 mega pixel Precision telecentric lens with custom FOV available for enhanced accuracy</p>

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