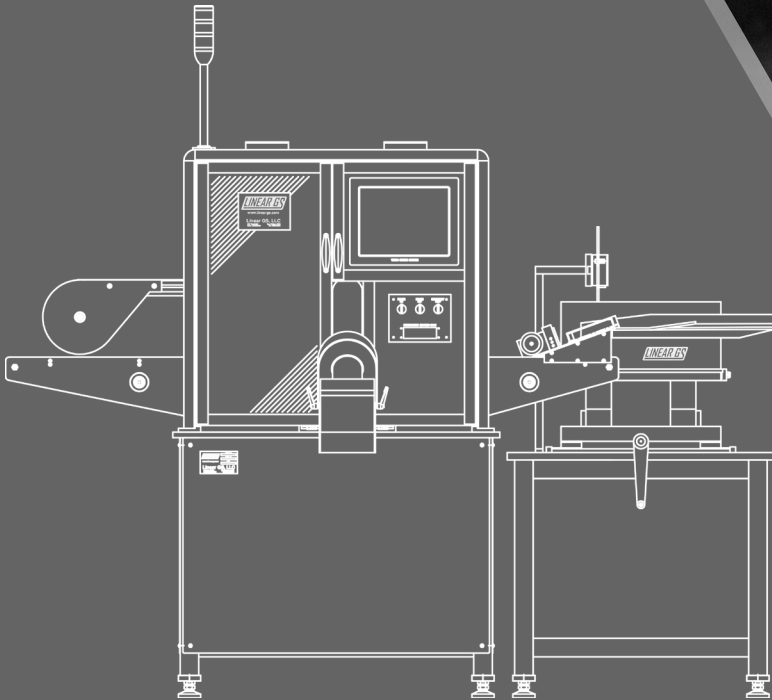


**LVD** Model



**Fastener  
Inspection  
Machines**



## Model: LVD, Dual Belt Conveyor Inspection Machine, US/CE Compliant

Series: 3000 though 5000

**Production Rate:** 500 to 1000ppm, based on M8-1.25 x 25mm long fastener

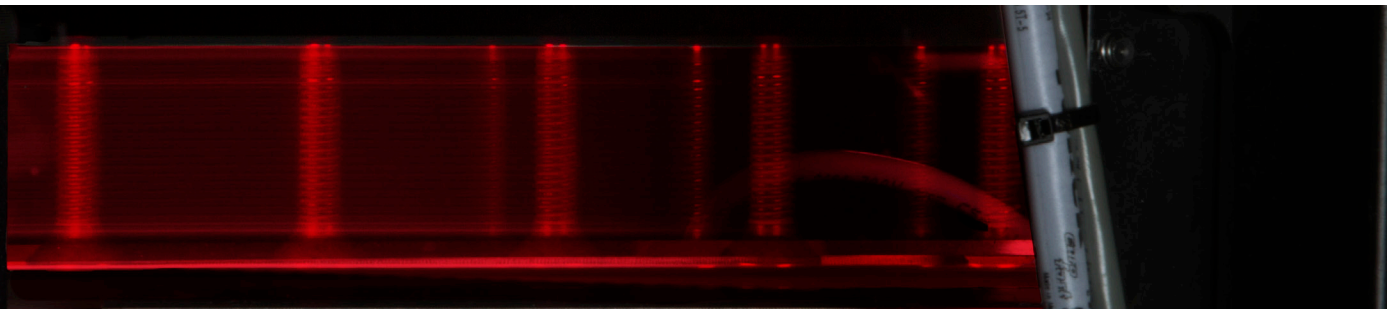
**Product Type:** Ferrous and non-ferrous based fasteners, including nuts, weld nuts, rivnuts, washers, clips, non-collared studs and headed bolts M5 to M16 x 90mm in length, depending on part stability

**Vision Field of View (FOV):** 32mm horizontal x 95mm vertical

**Inspection Cameras:** Standard or telecentric camera lenses available

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

<b>LC-Camera 1:</b>	<b>Top down view with adjustable front lighting (32mm FOV), Resolution .00062"</b> Drive Recess (Fill/Missing area) Surface Defects Riverbed Cracks
<b>UC-Camera 2:</b>	<b>Side view with backlight (32mm x 95mm FOV), Resolution .0014"</b> 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
<b>UC-Camera 3 @ 90°:</b>	<b>Side view with backlight (32mm x 95mm FOV), Resolution .0014"</b> Turned Head; Side view comparison and average of hex head width Bolt straightness, features of bolt can affect reading
<b>LC-Camera 4:</b>	<b>Top down view with adjustable front lighting and adjustable iris back lighting (32mm FOV), Resolution .00062"</b> 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
<b>UC-Camera 5 @ 90°:</b>	<b>Top angle view with front light (20mm FOV). Resolution &gt;.0005"</b> Threads; Presence



## LVD Inspection Machine Options

<p><b>Custom Inspection Options</b> Includes additional camera configurations</p>	<p>360° surface detection</p>
<p><b>Bolt Feed System Options</b> 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 Custom sound enclosure available with easy access for feed system tooling change over</p>
<p><b>Nut Feed System Options</b> 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><b>Bulk Material Handling Options</b> Includes heavy duty internally-lined hoppers</p>	<p>3 ft<sup>3</sup> Hopper mounted to bowl table for smaller size fasteners 10 ft<sup>3</sup> and 12ft<sup>3</sup> Hopper, Floor style loader with lift-up conveyor and variable speed motor for smaller to medium size fasteners 19ft<sup>3</sup> 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><b>Packaging for Inspected Product</b> 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><b>Custom Optics</b> 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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