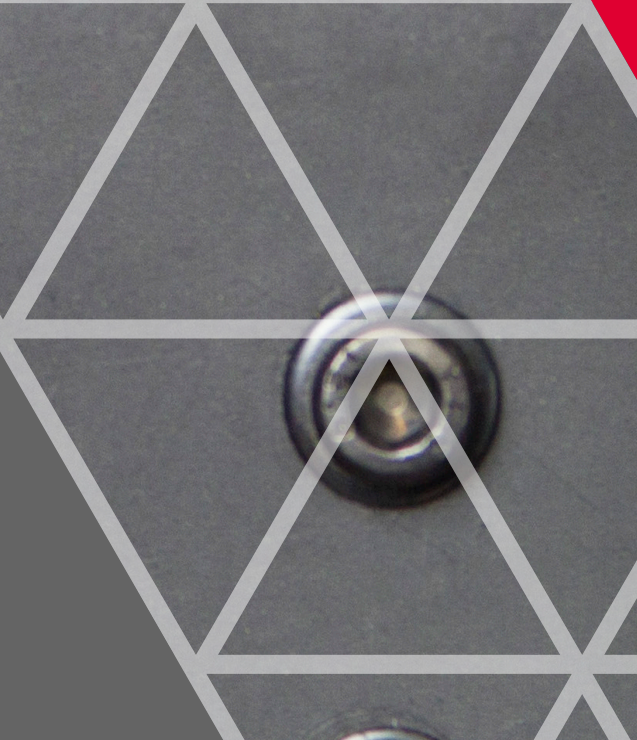
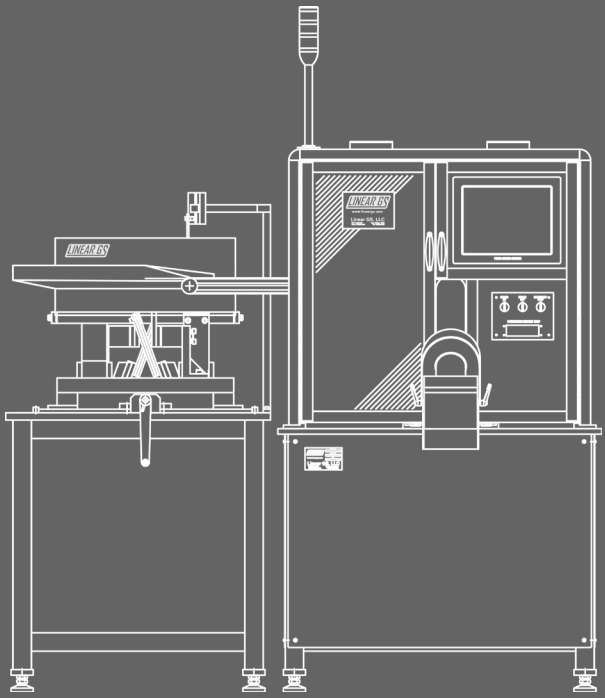


**LV** Model



**Fastener  
Inspection  
Machines**

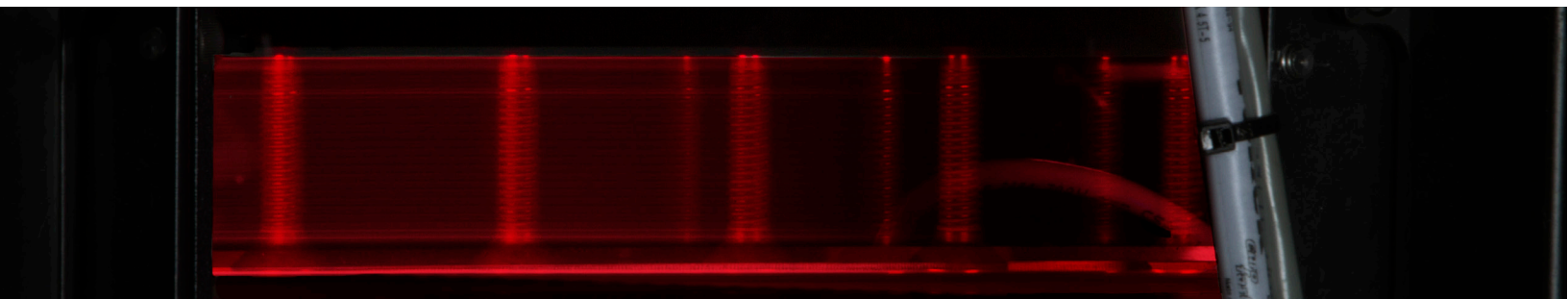


**Model: LV, Single, Flat Belt Conveyor Inspection Machine, US/CE Compliant**  
**Series: 1000 through 4000**

**Production Rate:** Nuts from 250 to 500ppm. Rivnuts from 500 to 1,000 ppm.  
**Product Type:** Ferrous and non-ferrous based fasteners, including nuts, weld nuts, rivnuts, washers, clips, non-collared studs and headed bolts, depending on part stability  
**Vision Field of View (FOV):** 32mm horizontal x 95mm vertical  
**Inspection Cameras:** Standard or telecentric camera lenses available

**LV Inspection Machine Capabilities**

|                               |   |
|-------------------------------|---|
| <p><b>Camera 1:</b></p>       | <p><b>Top down view with adjustable front lighting (32mm FOV), Resolution .00062”</b><br/>           Perimeter and open burst cracks, open cracks visible at OD, in silhouette view of part, part standing on head viewed down<br/>           Diameter; min/max/avg<br/>           Ovality/Roundness of head OD<br/>           Hex(no flange) min/max diameter<br/>           Bearing surface defects<br/>           Burrs<br/>           Weld Nibs</p>   |
| <p><b>Camera 2:</b></p>       | <p><b>Side view with backlight (32mm x 95mm FOV), Resolution .0014”</b><br/>           Length<br/>           Head Height<br/>           Shank Length<br/>           Shoulder Diameter, min/max/avg/angle and variance<br/>           Point (Pilot) attributes<br/>           Threads:<br/>           Major diameter<br/>               Major Variance<br/>           Minor diameter<br/>               Maximum<br/>               Average<br/>           Thread Match<br/>               % Pattern detection of filled or missing threads</p> |
| <p><b>Camera 3 @ 90°:</b></p> | <p><b>Side view with backlight (32mm x 95mm FOV), Resolution .0014”</b><br/>           Turned Head; Side view comparison and average of hex head width<br/>           Bolt straightness, features of bolt can affect reading</p>  |
| <p><b>Camera 4 @ 30°:</b></p> | <p><b>Top angle view with front light (20mm FOV). Resolution &gt;.0005”</b><br/>           Threads; Presence</p>  |



## LV Inspection Machine Options

|  |  |
|--|--|
| <p><b>Custom Inspection Options</b><br/>Includes additional camera configurations</p>          | <p>Additional measurement detection</p>  |
| <p><b>Feed System Options</b><br/>Includes heavy duty adjustable base on all systems</p>       | <p>21" Drive, Vibratory stainless steel tooled bowl for smaller size fasteners<br/>24" Drive, Vibratory stainless steel tooled bowl for medium size fasteners<br/>30" Drive, Vibratory stainless steel tooled bowl for large size fasteners<br/>Custom sound enclosure available with easy access for feed system tooling change over</p>  |
| <p><b>Bulk Material Handling Options</b><br/>Includes heavy duty internally-lined hoppers</p>  | <p>3 ft<sup>3</sup> Hopper mounted to bowl table for smaller size fasteners<br/>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<br/>19ft<sup>3</sup> Hopper, High Flow, Tub dump style loader for medium to large size fasteners<br/>Dust collection units available for inspection machine and material handling components</p> |
| <p><b>Packaging for Inspected Product</b><br/>Includes boxing and top sealing options</p>      | <p>1/4 Keg box, 5 unit packaging system with storage conveyor<br/>1/4 Keg box, 10 unit packaging system with storage conveyor<br/>1/4 keg box, Automatic top fold and tape sealer</p>  |
| <p><b>Custom Optics</b><br/>Telecentric lens / lighting and high resolution camera options</p> | <p>Cameras, 1 to 25 mega pixel<br/>Precision telecentric lens with custom FOV available for enhanced accuracy</p>  |

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