**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)

| Camera 1: LC-Camera 1 | Top down view with adjustable front lighting (40mm FOV), Resolution .00062”  
Drive Recess (Fill/Missing area)  
Surface Defects  
Riverbed Cracks |
|-----------------------|------------------------------------------------------------------|
| Camera 2: 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 |
| Camera 3 @ 90°: UC-Camera 3 | 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 |
| Camera 4: 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 |
| Camera 5: UC-Camera 5 | Top angle view with front light (20mm FOV). Resolution >.0005”  
Threads; Presence |
## XLT Inspection Machine Options

| Custom Inspection Options | 360° surface detection  
Includes additional camera configurations  
Color detection  
Additional measurement detection |
|----------------------------|-----------------------------------------------------------------|
| Recirculation Conveyor Option | The undetermined fasteners are recirculated into the inspection and sorting machine feed system for re-inspection.  
Includes part return conveyance system |
| Bolt Feed System Options | 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  
Includes heavy duty adjustable base on all systems |
| Nut Feed System Options | 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  
Includes heavy duty adjustable base on all systems |
| Bulk Material Handling Options | 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  
Includes heavy duty internally lined hoppers |
| Packaging for Inspected Product | 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  
Includes boxing and top sealing options |
| Custom Optics | Cameras, 1 to 25 mega pixel  
Precision telecentric lens with custom FOV available for enhanced accuracy  
Telecentric lens / lighting and high resolution camera options |