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***Automated Assembly  
and Test Systems***

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# Vision-Guided Robotic Assembly

A pair of flexible feeders feed and orient two of several components making up an automotive door lock. A vision system recognizes properly oriented components and guides a SCARA robot with dual grippers to pick up the parts. After passing the parts over a grease dispensing brush, the robot places them on a pallet for later assembly.



Several similar machines are integrated with a palletized conveyor system to form a continuous assembly line combining flexible parts feeding, vacuum-formed part tray handling, vision-guided assembly, metered grease dispensing, and radial riveting.