



AUTOMATION FOR EVERY JOB SIZE

Small forms of automation can bring big results

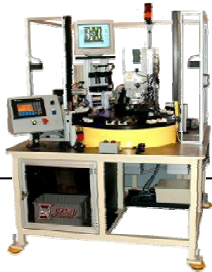
When some people picture automation, they envision large, elaborate robot-driven systems in a lights-out environment. The reality is that most opportunities for automation do not require such complex systems. Volumes may not warrant a large cell, but don't overlook the benefit from smaller forms of automation. The following gives some examples of a wide range of systems QSI can produce to improve your process.

Small System

Range \$10k—\$100k

Small systems focus on improved ergonomics, safety, production, and repeatability. Most systems would be semi-automatic in operation.

Examples: test stands, feed systems, part orientation system, fixtures, molds and dies, end of arm tooling, simple robot operations, small assembly machines, index tables, vision systems, Low pressure (hot melt) machines, used insert molding machines.

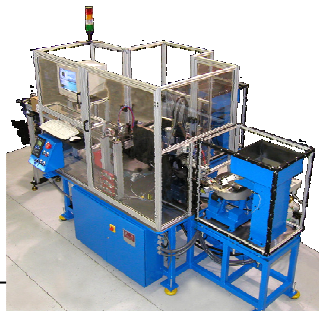


Medium System

Range \$100k—\$400k

Medium systems focus on reducing labor costs by eliminating tedious manual tasks. More of the process is fully automated with reduced manual intervention.

Examples: Injection molding machine automation, insert and terminal stitching, complete test systems, assembly cells, pallet systems, multiple robot operations, integration around new or existing 3rd party equipment.

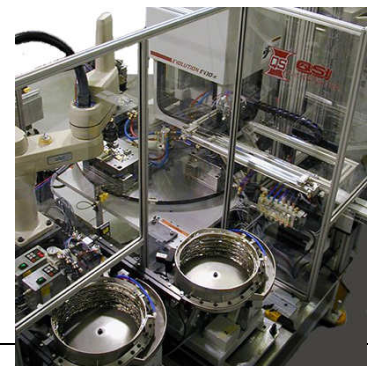


Large System

\$400k+

Large systems focus on high volume production (1,000,000+ parts/year) with minimal human intervention. Many times 3rd party equipment is packaged into the cell as QSI represents a single source supplier.

Examples: insert molding cells with machine, molds, automation, and testing. Complete assembly and testing machines. Large part handling conveyors and systems. Cells containing several robot operations, index tables or pallet systems.



Low Pressure Molding Machine

QSI continues to expand its product offering for the low pressure (hot melt) molding market. Drawing on extensive experience with insert molding, QSI has streamlined its design resulting in a low cost, off the shelf model that is projected to sell for under \$45,000.

The new affordable LPE-1 low pressure machine is capable of processing polyamide-based hot melt materials.



The materials are injected at very low pressures in order to encapsulate electronics and other fragile parts that can be damaged with high pressure molding.



QSI Golf Outing Participants Have A Ball

QSI Automation's annual customer golf outing was Saturday, June 28 under blue skies at Eagle Glen Golf Course in Columbia City, Indiana. The participants included QSI customers, vendors and employees.

Event winners were:
Closest to pin #2-**Mark Eash**, CWS; Closest to pin #11-**Rick Dellaux**, Invensys; Long Drive #18-**Bob McCoy**, RA McCoy; Long drive hole #1-**JT Munk**, QSI.



Winning team pictured with QSI management: (L to R) Phil Munk, President QSI, Jeff Dull, Tony Gohde, Mel Coyle, JT Munk, VP QSI. Not pictured Tim Grabel.