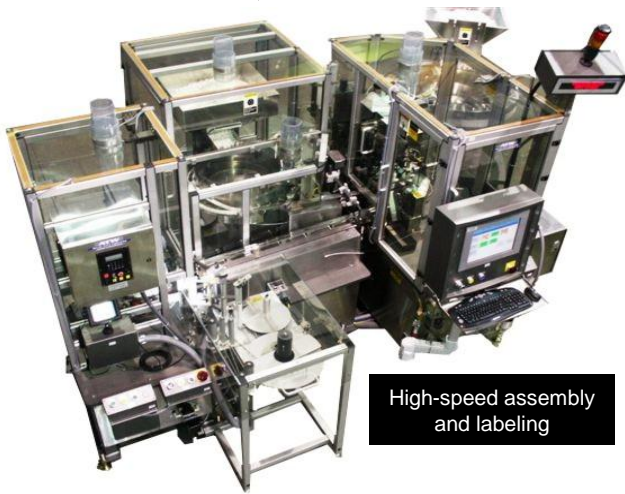


DTE

Detroit Tool & Engineering

Automated Assembly and Packaging of Drug Delivery Products

Focused Specialties ➔ Broad Capabilities



High-speed assembly and labeling

DTE-Your One Source GMP Partner in Success

Innovative new products breed potential success in today's marketplace, but getting those products to market may also mean using innovative new processes in your manufacturing environment. Standard "off the shelf" equipment may only be part of the solution or may not be applicable at all in creating the right system for your production needs. DTE provides a unique blend of engineering professionals along with vertically integrated production facilities staffed with experienced craftsmen to support your efforts in quickly bringing these products to market. Our project teams analyze your production needs and offer solutions ranging from system integration of existing technologies, all the way to designing one of a kind machines that provide the unique solutions to your manufacturing challenges.



Turn-key packaging systems

Detroit Tool & Engineering

www.detroittool.com

- High-Speed Assembly Systems

- Synchronous Systems
- Non-Synchronous Systems
- Continuous Motion Systems
- Robotic Cells And Systems
- Ultra Precision Tooling

-Semi Automated Systems

-Material Handling Systems

-Lean Cells

-Testing Systems

-Inspection Systems

-Clean Room Systems

-Machine/System Replication

-Packaging Line Integration

-Turn-Key Manufacturing Systems

-Engineering Services

- Design For Assembly Analysis (DFA)
- Failure Mode Element Analysis (FMEA)
- Design Of Experiment (DOE)
- Concurrent Engineering
- Proof Of Principle Prototyping
- Risk Mitigation Management
- Support For FAT,SAT,IQ,&OQ
- Support For 21 CFR Part 11 Issues
- Support For Rapid Production Ramp Up

Please contact us today to discuss how we can help you get your product to market before your competitors do!

Detroit Tool and Engineering

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Lebanon, MO 66536
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DTE

Detroit Tool & Engineering

Automated Assembly and Packaging of Drug Delivery Products

Vision Inspection Systems for

- Lot and/or date code verification
- Color verification
- Leak Testing
- Product damage (chip or crack detection)
- Missing or incomplete part
- Label inspection/verification



Lot/date code vision inspection systems



In-line assembly systems

Let our decades of experience assist you in developing proven manufacturing solutions for your automated production of :

- Syringes
- Catheters
- Dosage Dispensers
- Insulin Pumps
- Glucose Monitors
- Trans Dermal Patches
- Pen Injectors
- Oral Contraceptives
- Inhalers
- Valves
- Filters
- Diagnostic Kits
- IV Sets and Sub-Assemblies



Product damage vision inspection system



Custom material handling systems

*IQ/OQ Qualification Protocol Prepared by DTE
Machine Documentation*

*Operator/Maintenance/Trouble Shooting
Commercial Components
Complete Mechanical Drawing Package
Electrical Schematics
Pneumatic Drawings
Illustrated Parts List Standard Products
PLC Logic/PC programs
Drawing Log/Record
Hard Copy & Electronic Files*



High-speed labeling systems

Headquarters

Detroit Tool and Engineering
Lebanon, MO
417-532-2141

Other DTE Locations

DTE / Midwest
Lake Zurich, IL
847-438-1009

DTE/ Bodine Assembly
Shelton, CT
203-712-1900