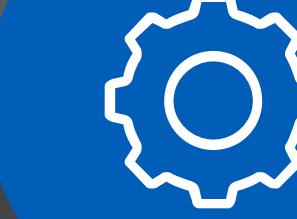


autosplice[®]

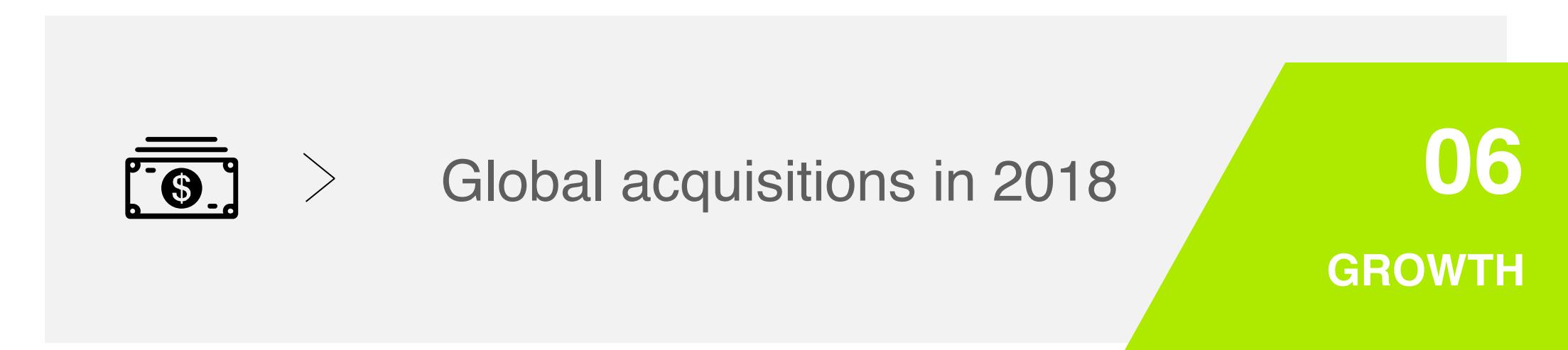
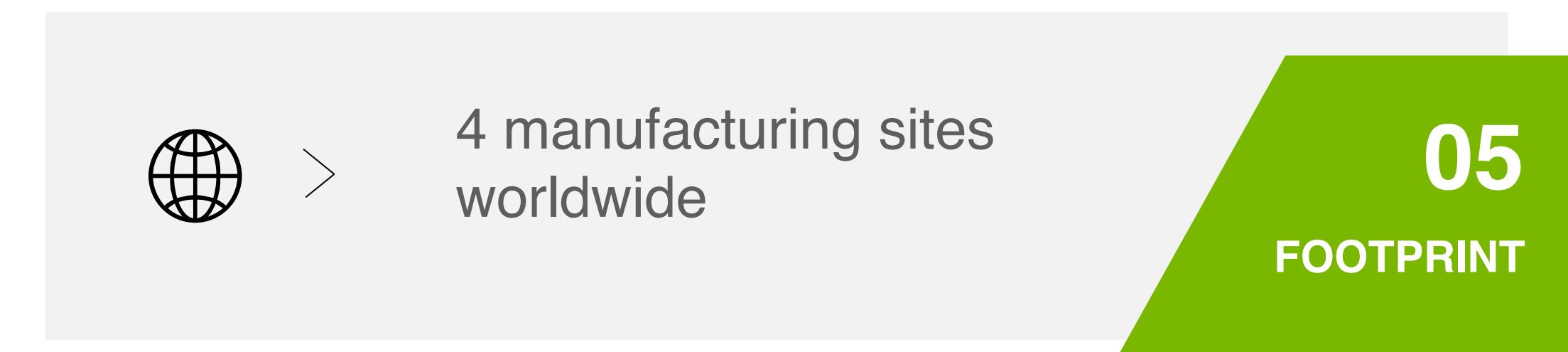
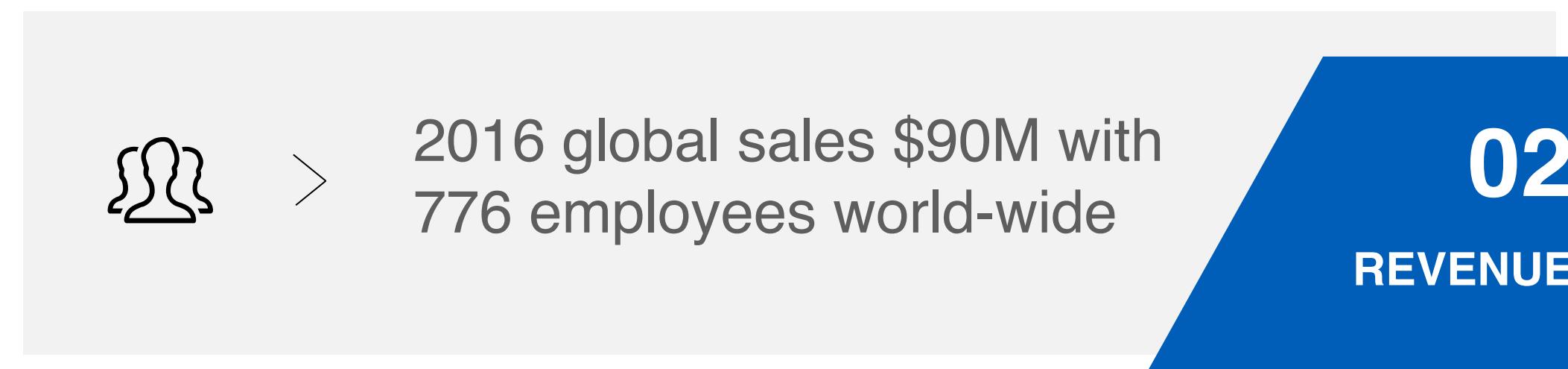
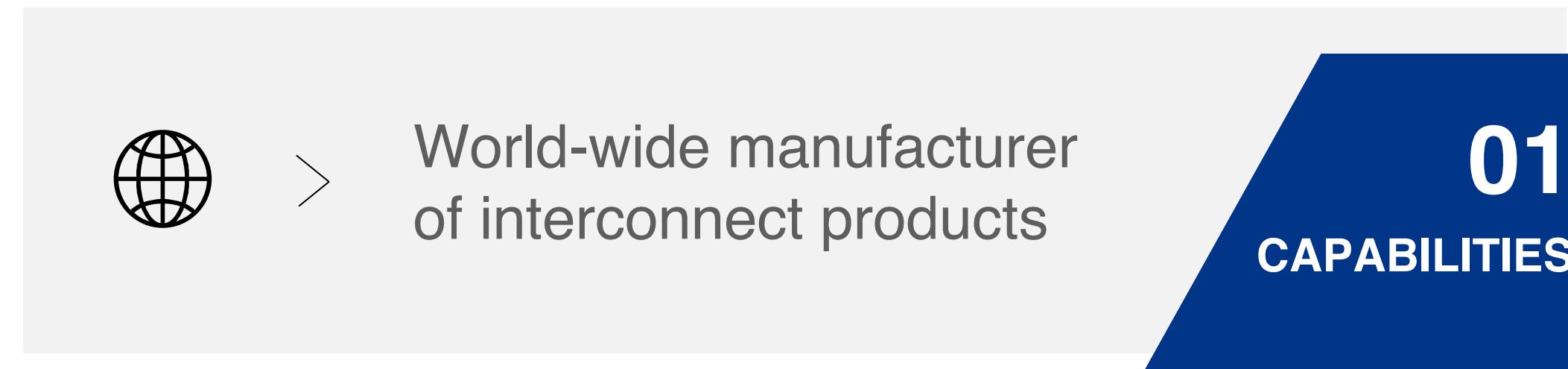
Interconnecting the Future

GLOBAL SNAPSHOT 2018

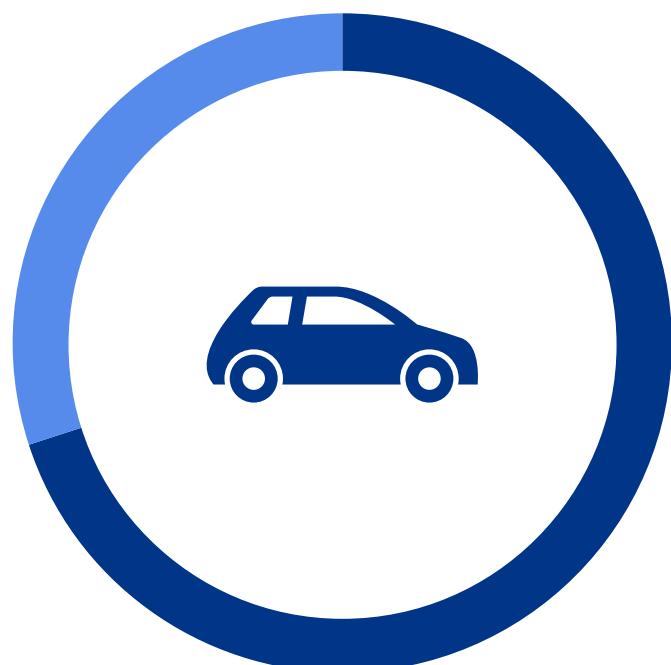
ABOUT US



Global Overview

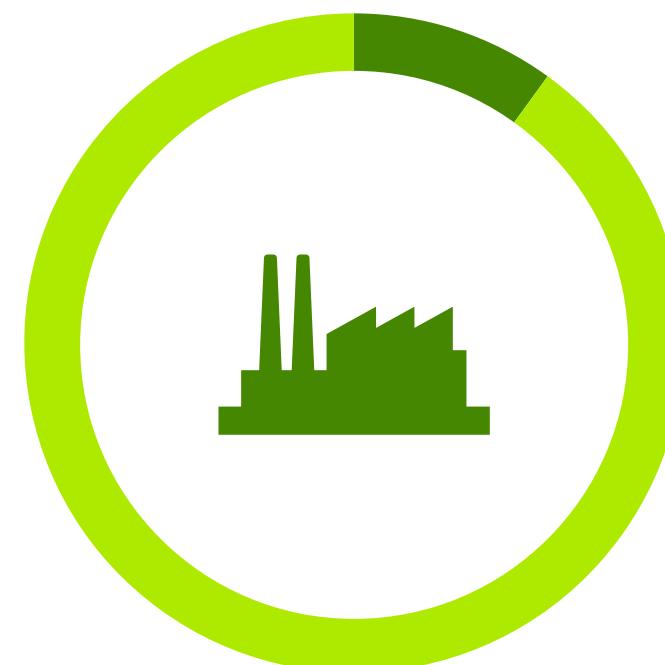


Industry Diversification



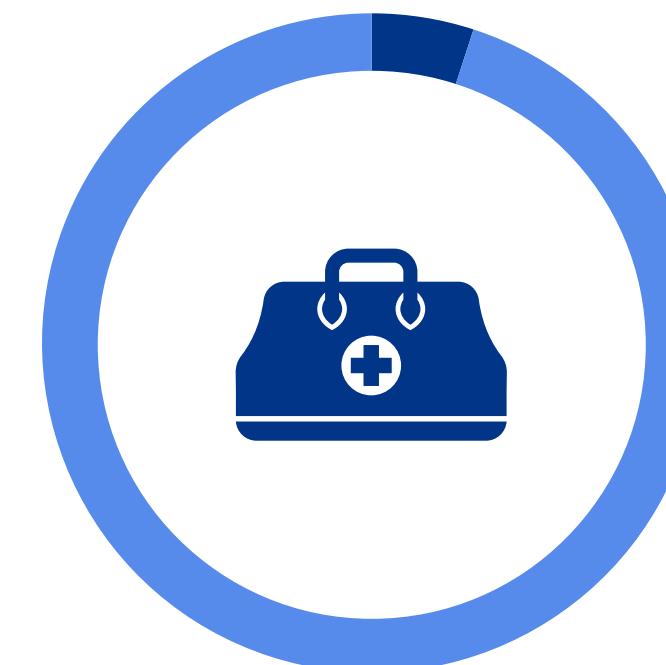
70%

Automotive



10%

Industrial



5%

Medical



15%

Other



• A P T I V •

flex

LG

EATON

Insulet Corporation

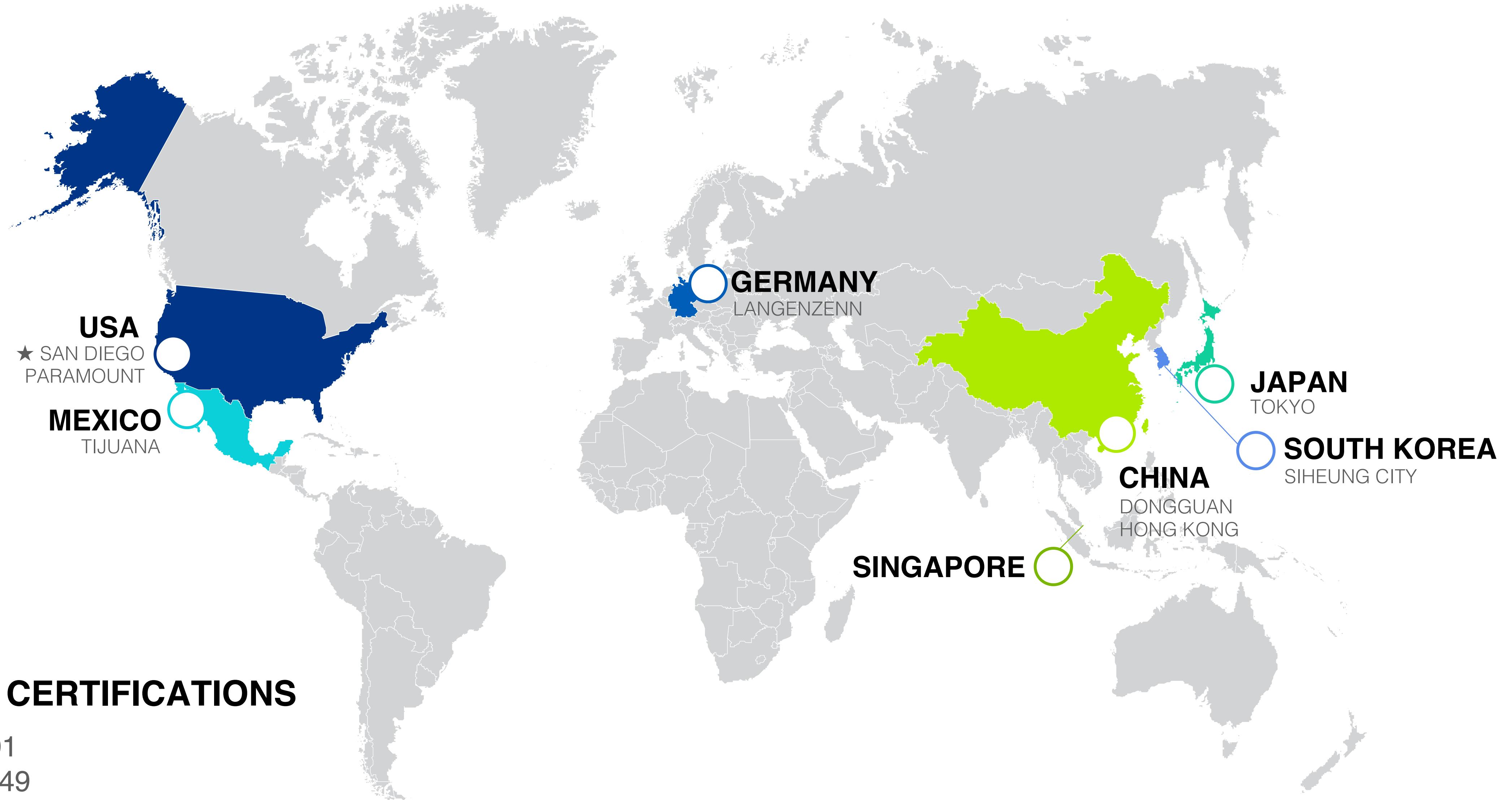


ArthroCare®

BOSE®

Honeywell

plantronics®



GLOBAL CERTIFICATIONS

- ISO14001
- IATF16949

Vertical Capability Advantage



Paramount, CA

- Precision Stamping
- Press Fit Technology
- Splice Technology

Tijuana, Mexico

- Pin Production
- Molding
- Connector Manufacturing
- Interconnect Assemblies
- SMA Assemblies

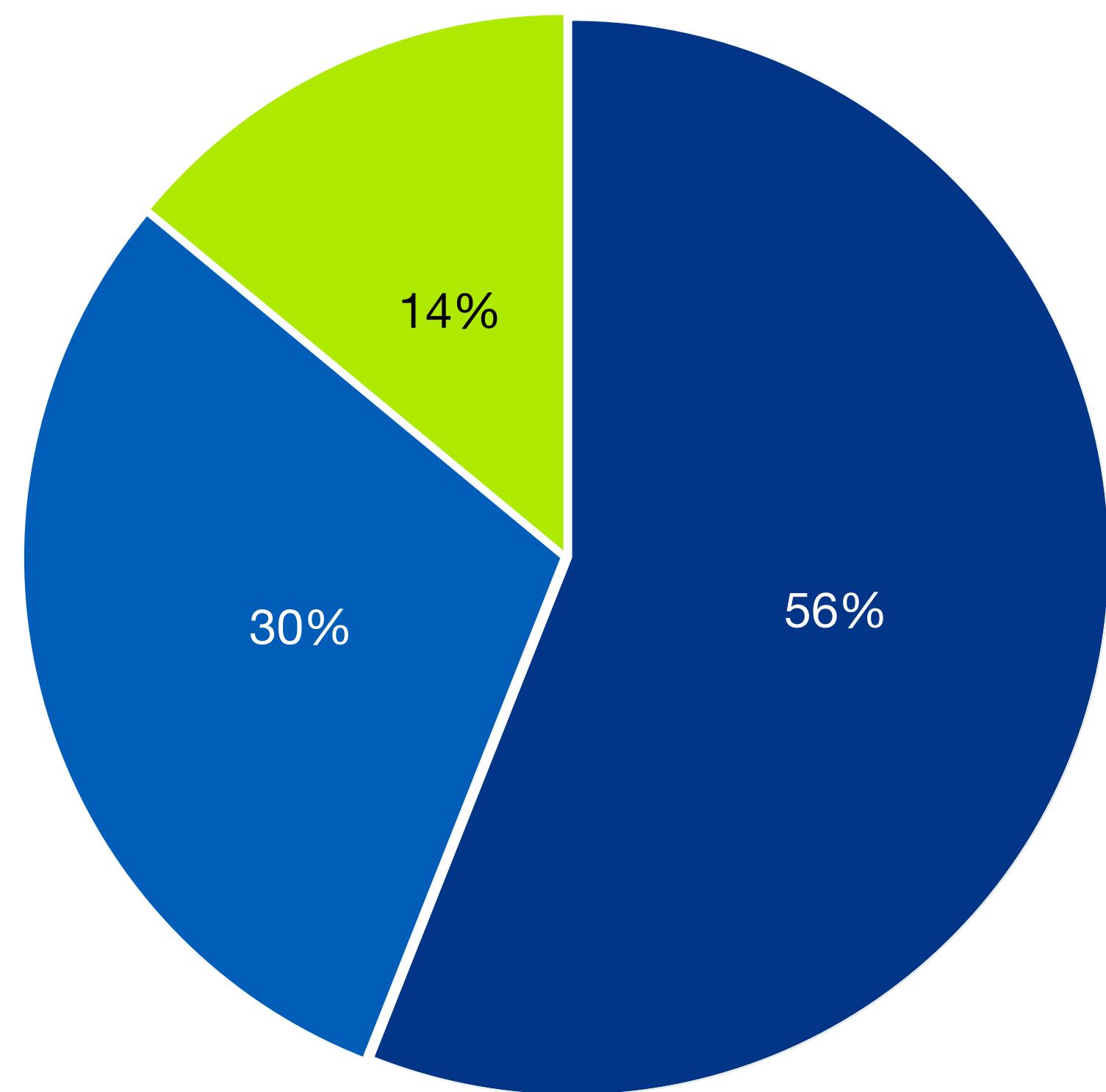
Langenzen, Germany

- Precision Stamping
- Pin Production
- Molding
- Connector Manufacturing
- Interconnect Assemblies

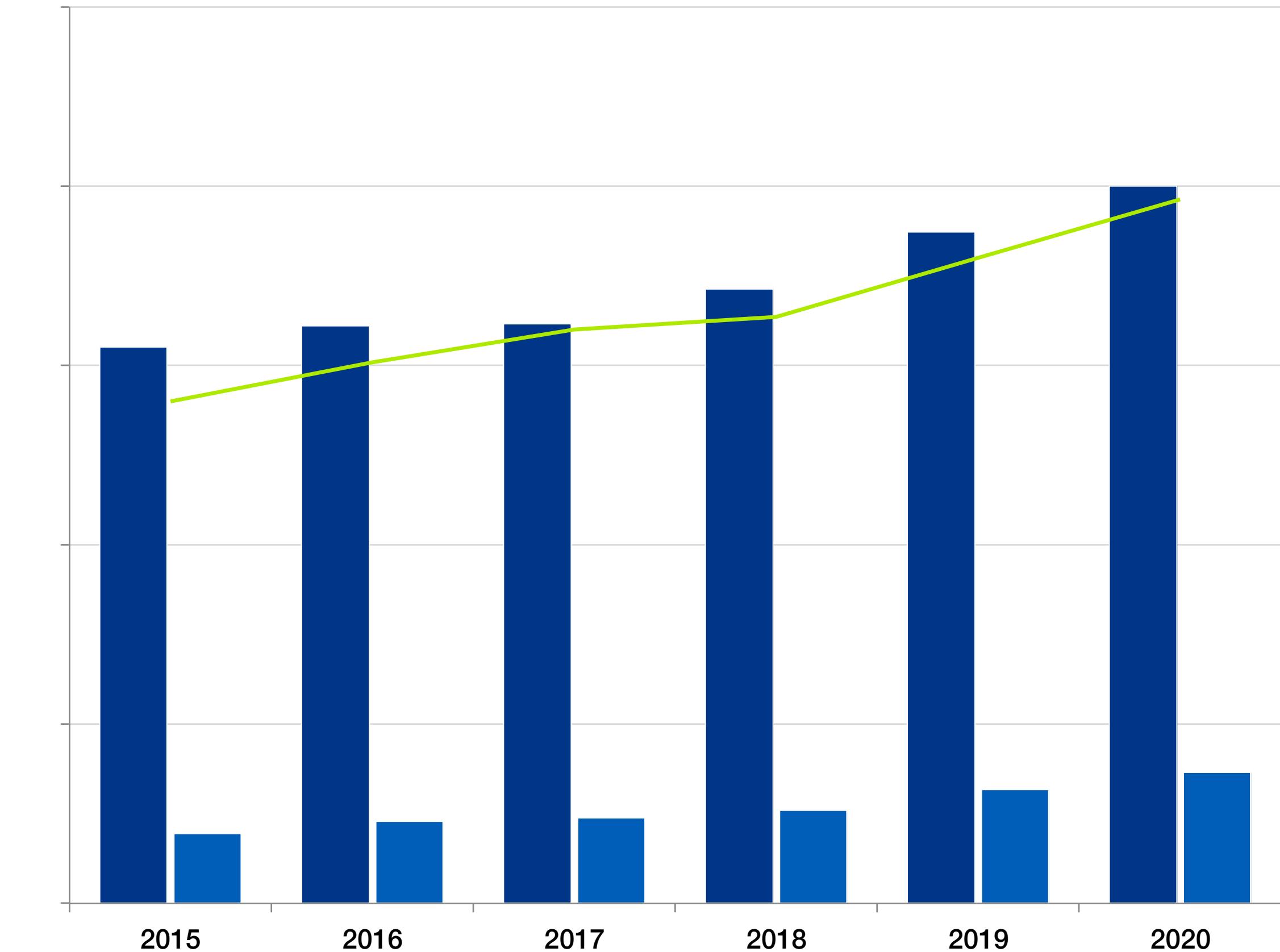
Dongguan, China

- Precision Stamping
- Press Fit Technology
- Pin Production
- Molding
- Connector Manufacturing
- Interconnect Assemblies

■ Machines & Components ■ Custom Connectors ■ Integrated Assembly



■ Revenue ■ EBITDA ■ EBITDA margin



REVENUE SPLIT BY SEGMENT

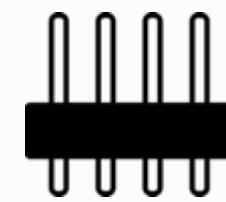
2015 - 2020F

REVENUE & EBITDA

2015 - 2020F

PRODUCT PORTFOLIO





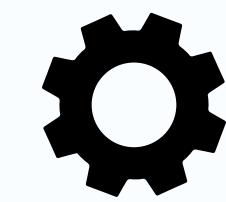
CUSTOM CONNECTORS

Design and manufacturing of customer specific connector assemblies comprised of customized components

Insert moldings, over moldings

END MARKETS

Automotive
Industrial
Other



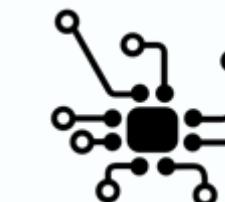
MACHINES & COMPONENTS

Design and manufacturing of automated wire splicing and interconnect insertion machines

Insertion machines, headers, stamped terminals, splice machines and spliceband

END MARKETS

Automotive
Industrial
Medical
Other



INTEGRATED ASSEMBLIES

Offering of PCBA and Shape Memory Alloy assemblies

Power distribution modules, custom assemblies

END MARKETS

Automotive
Medical



CUSTOM CONNECTORS

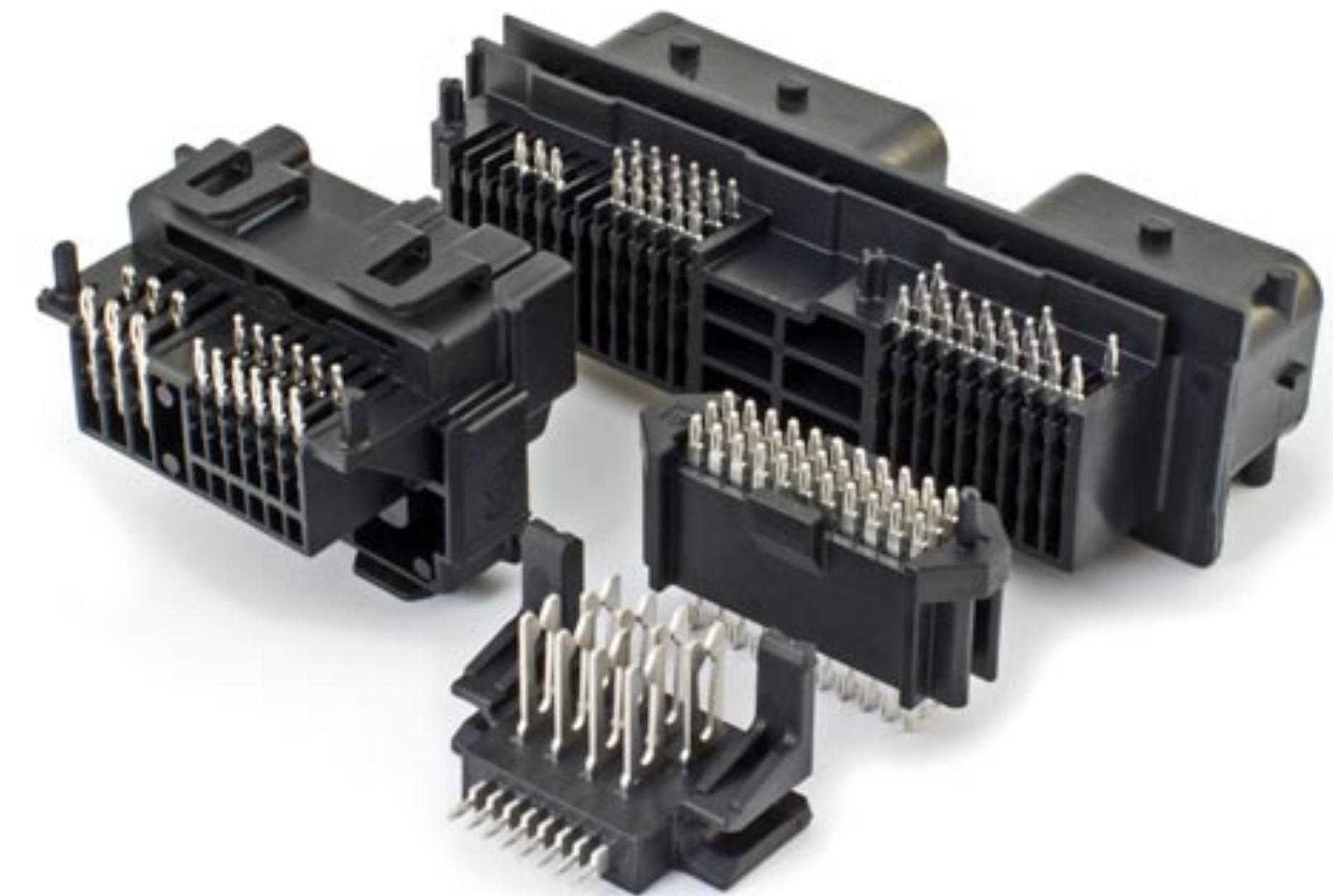
Custom Connectors and Insert molding products incorporate robust press-fit terminals with precision molding and low cost flexible assembly technology.

Insert Molding | Press-Fit Terminals
Complex Lead Frames



VERSATILITY

We focus on innovative, versatile and cost effective solutions tailored specifically to meet your project requirements. From basic molded headers to high-density shrouded connectors where environment and voltage rating are a factor, Autosplice has the experience, resources and expertise to meet your needs.

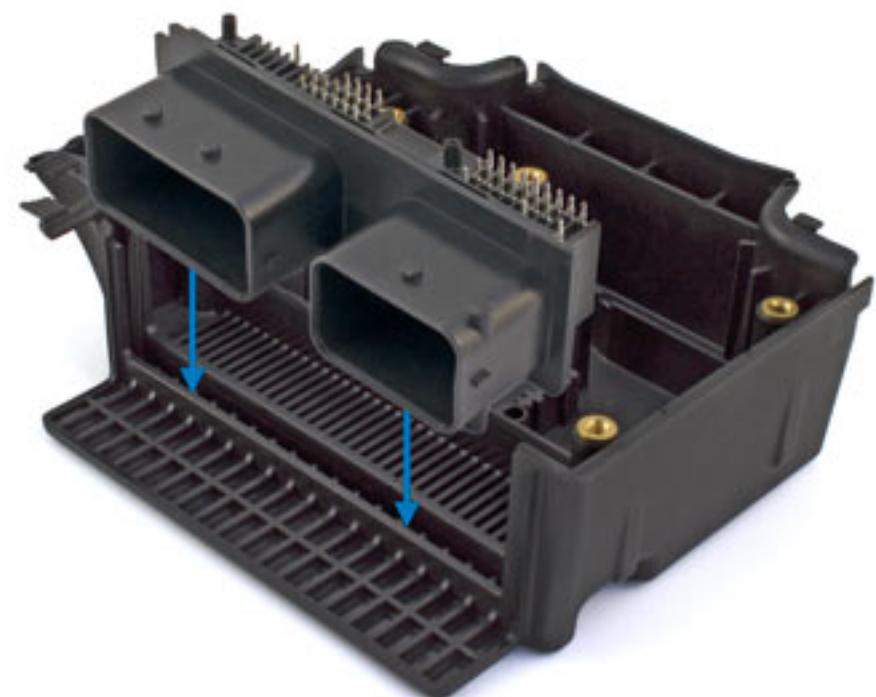


CAPABILITIES

- Progressive Die Stamping
- Vertical Insert Molding
- Horizontal Continuous Molding
- Press-Fit Terminals
- Complex Lead Frames & Busses
- Robotic Automation Assembly
- Dispensing UV Cured Materials
- 100% AOI, Hi-pot, and Continuity Testing

Infotainment / Instrumentation

Terminals, Auto Header, Custom connectors



Airbag Modules

Integrated connector module



Radar Housing

Integrated connector module





Sensors & Fuel Control Modules

Integrated Connector Assemblies,
Terminals, Custom Header, Busbars



ECU & BCU Control Units

Custom Connector Assemblies, Terminals, Custom Header, Busbars





MACHINES & COMPONENTS

Design and manufacturing of automated wire splicing and interconnect insertion machines.

Insertion Machines | Headers | Stamped Terminals
Splice Machines | Spliceband





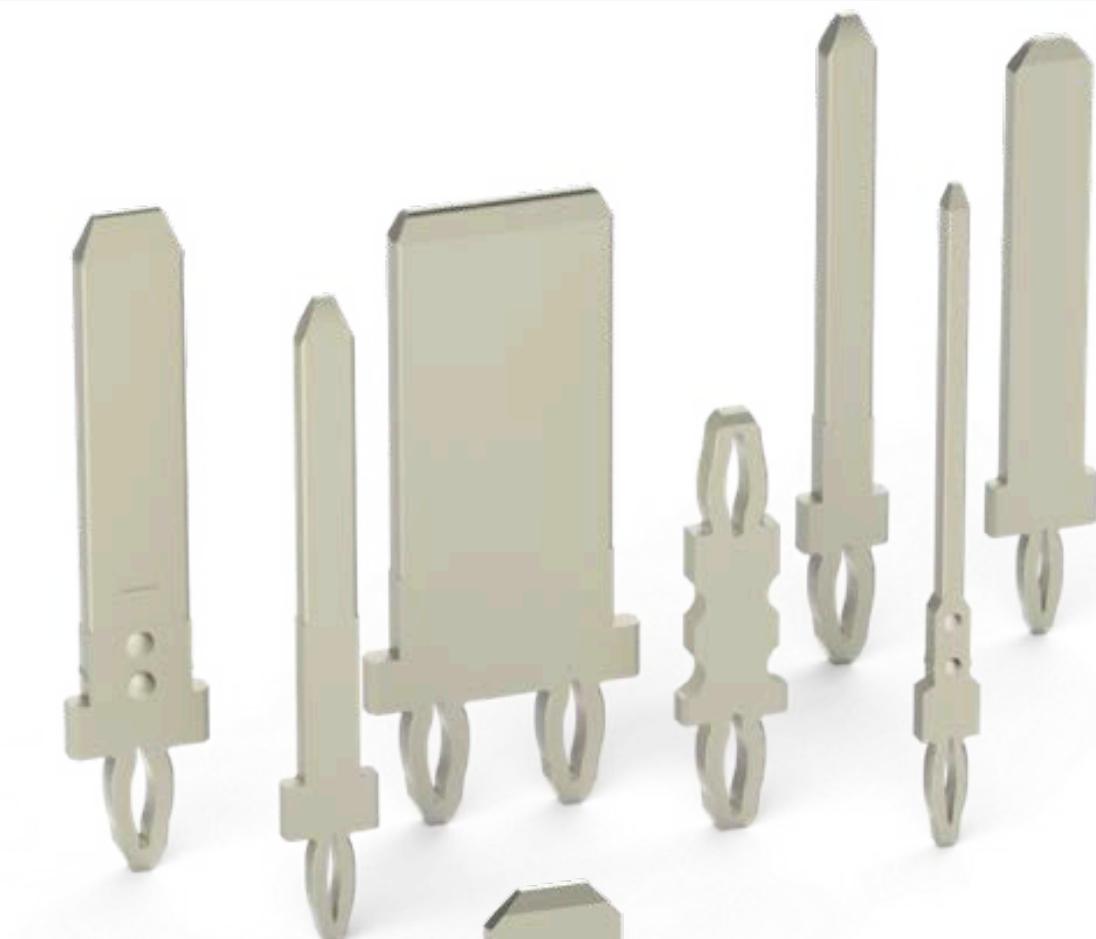
MULTISERT

- Insertion Time: 0.35 sec./component on .2" (5.08 mm) pitch
- Insertion Area: 18" x 18" (457 x 457 mm)
- Insertion Heads: Max. 2
- Vision system for PCB error correction



AIS 5000

- Insertion Time: Pin 0.7 sec. | Tab 1.0 sec./component
- Insertion Area: 12" x 12" (300 x 300 mm)
- Insertion Heads: Max. 2
- Autocorrection function (optional)



PRESS-FIT TERMINALS

- 0.4 mm coming soon
- 0.64 mm
- 0.82 mm
- 1.2 mm



SOLDER TAIL TERMINALS

- Blades
- SMT sockets
- Receptacles / Sockets
- Tuning Forks
- Horizontal Blades / Pins



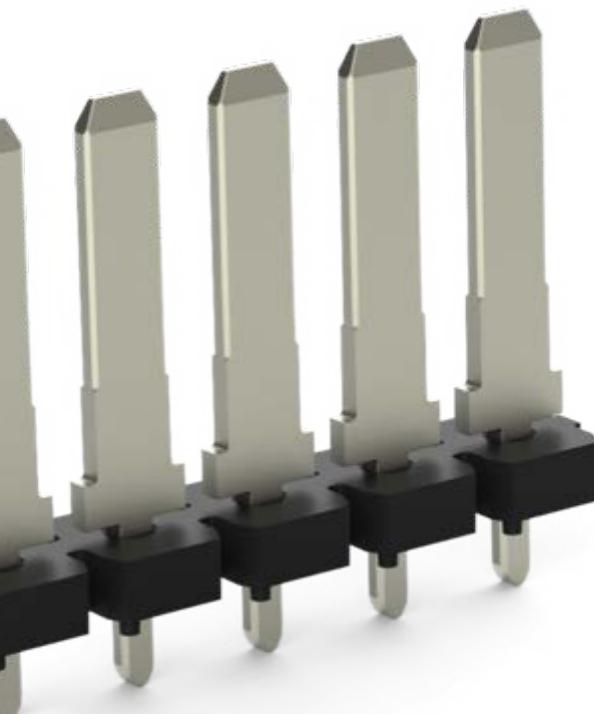
AP/2 DRAWN WIRE PINS

- 0.1 mm – 1.2 mm Pins
- Press-fit coming soon
- Conforming Semi Press-fit
- Star and Knurl pins



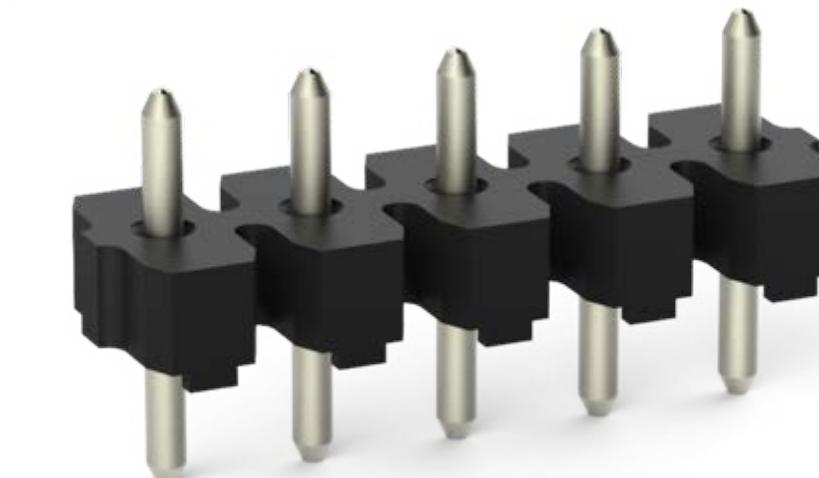
ADVANTAGE

The continuous reel packaging method provides convenient, cost effective automation and placement.



Blades

Single and Dual Row



Pins

Single and Dual Row



Press-fit

Single and Dual Row



Solder tail

Single and Dual Row



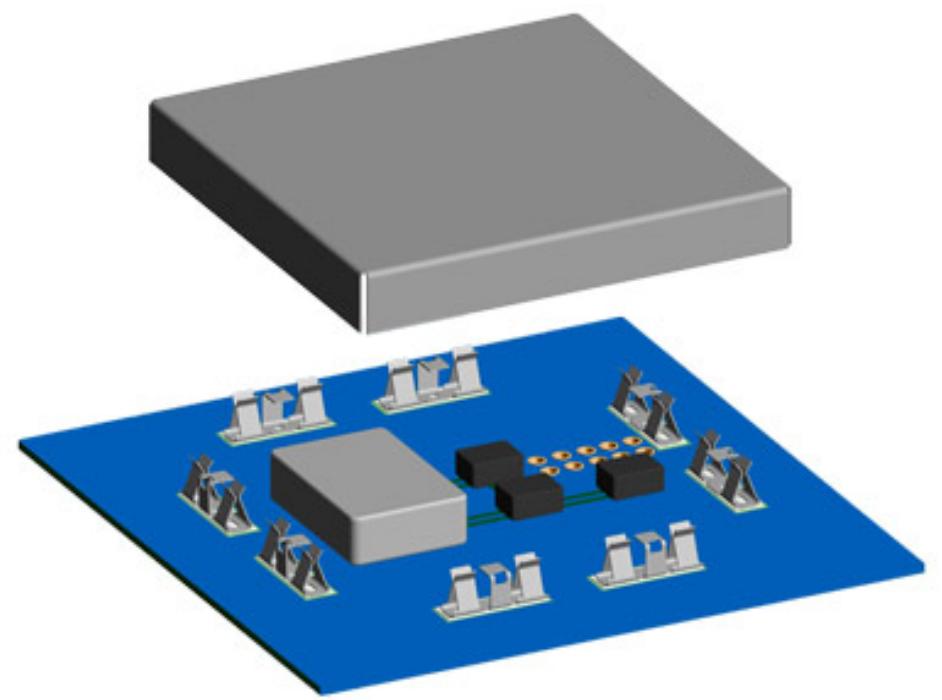
Right angle

Single and Dual Row

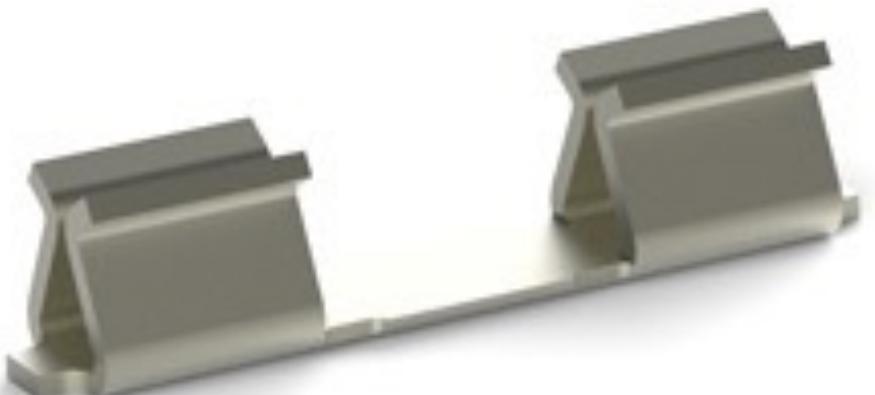


Stacking header

SHIELD CLIPS AND SHIELDS



Autosplice shield clips and covers offer premium RFI and EMR noise suppression with two designs, the standard shield clip uses four independent spring contacts and the corner shield clip to minimize interference on the most sensitive devices.



Bottom pick-up



Top pick-up

SOLDERBALL PINS



Solderball Pins have been tested to perform current capacities of up to 40 amps.



SMT Pin





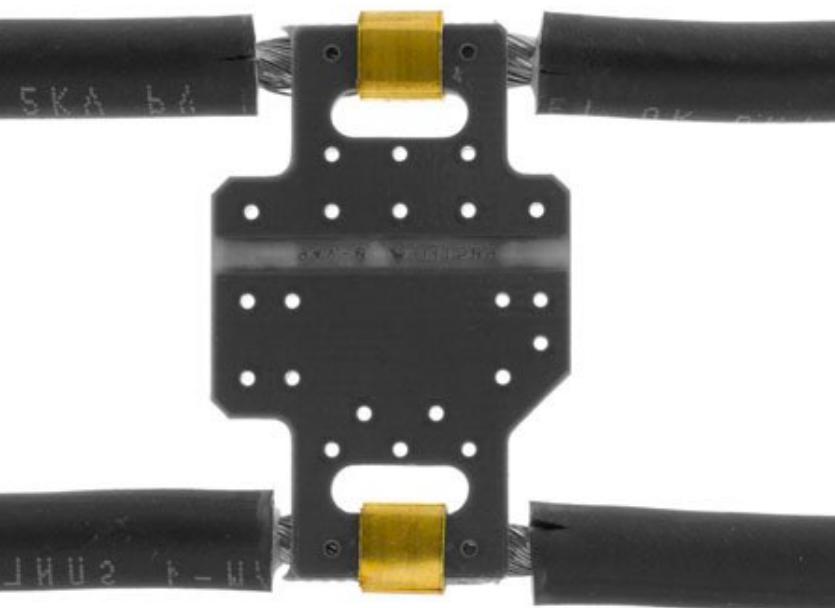
SAS/3

- Single shot clutch drive system
- Mechanical driven feed for splice band
- Scrap free
- Vast variations of tooling options



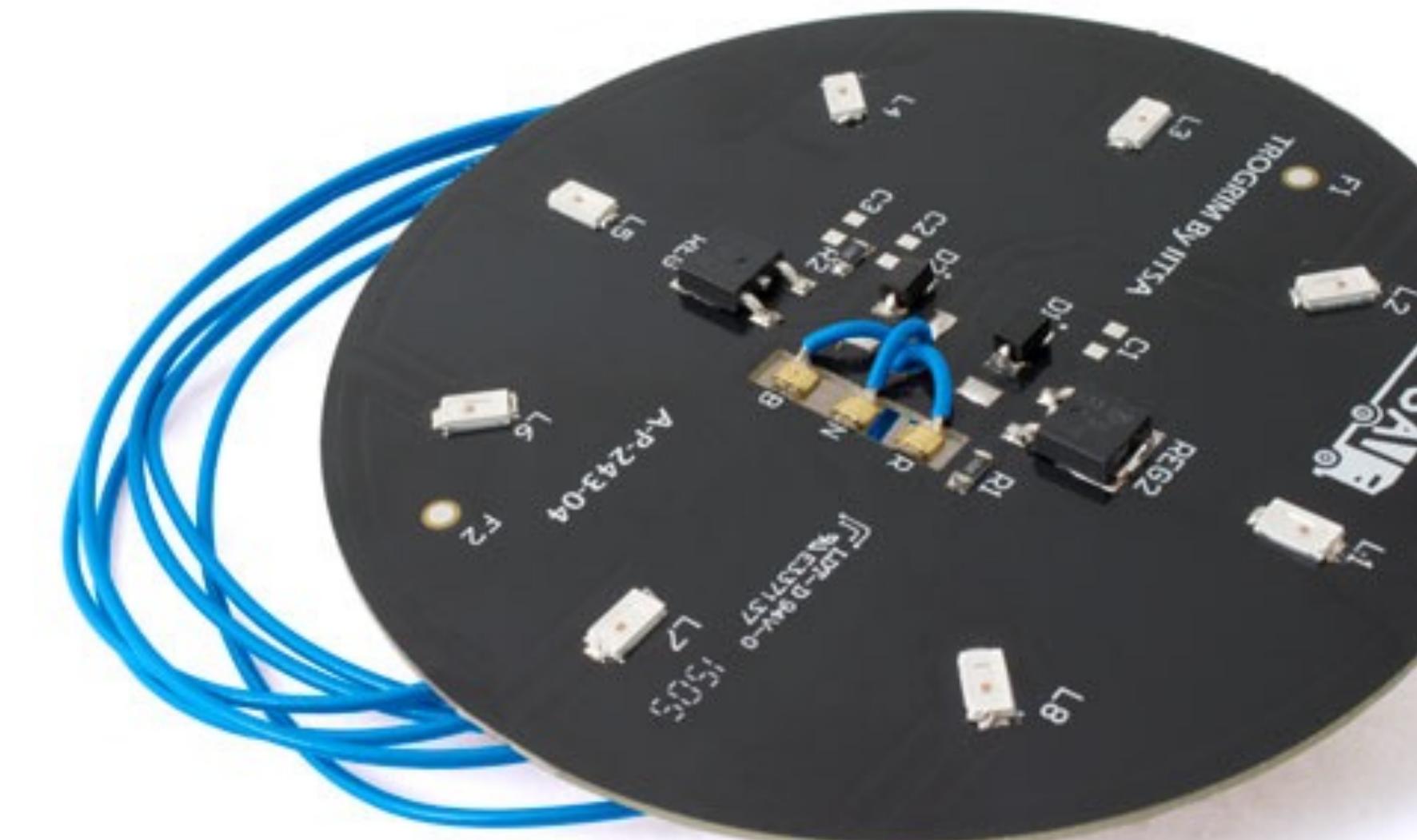
ACS 2000

- Servo Motor Drive system
- Pneumatic grip and feed for splice band
- Scrap free
- Programmable Counter

Wire-to-Wire**Direct-to-Board****Strain Relief****Magnet Wire****ADVANTAGE**

Splice Technology produces gas-tight, repeatable, and waste-free low resistance connections.

Splice Technology feeds, cuts, forms and splices connections quickly, eliminating the need for pre-formed crimps.

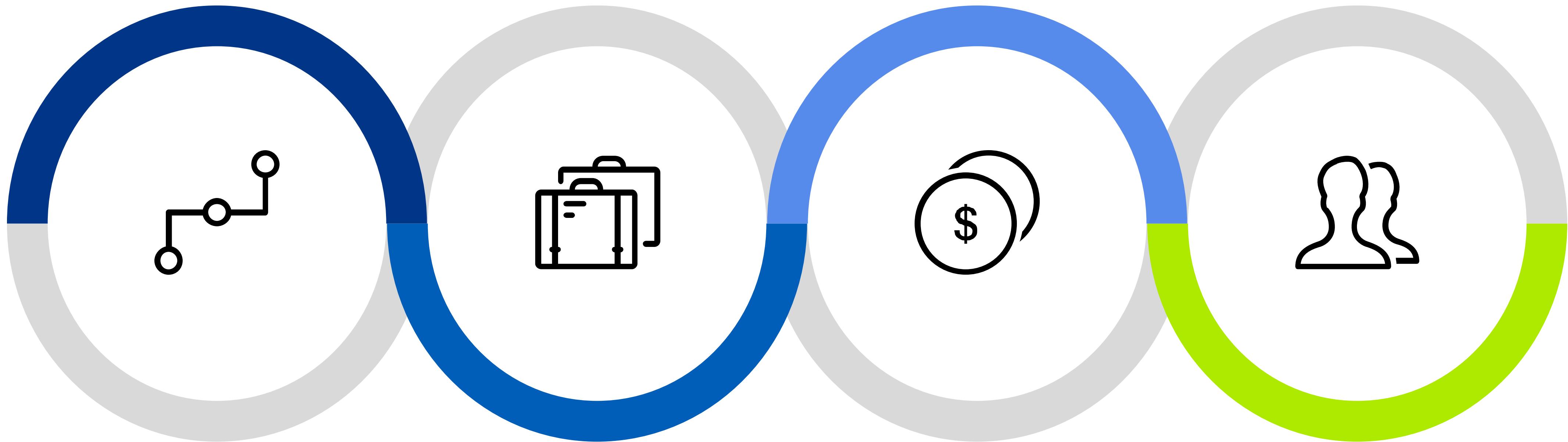




INTEGRATED ASSEMBLY

Autosplice offers sub-assembly services with PCBA, terminals, and molding to support your specific industry through one supplier.





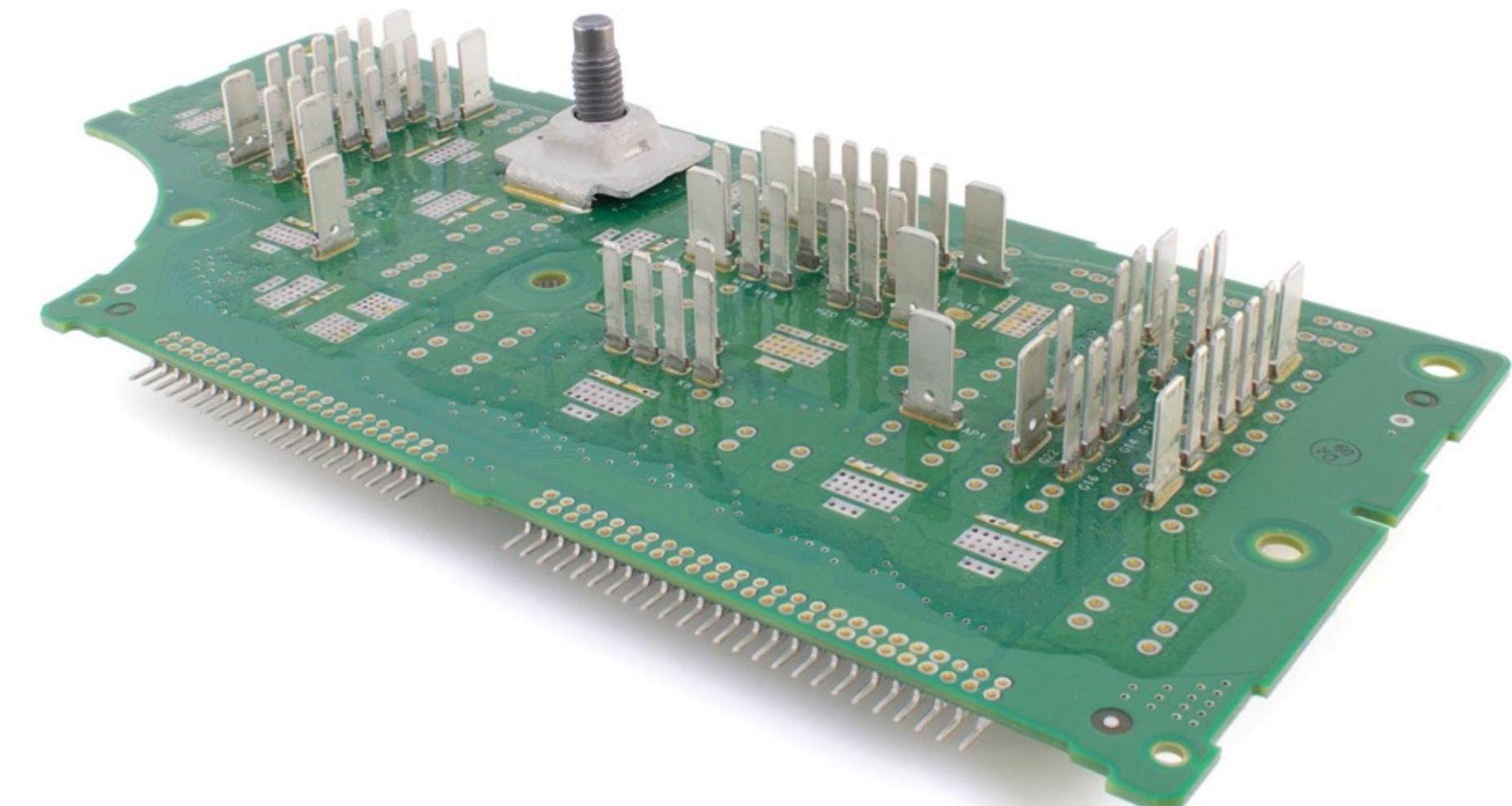
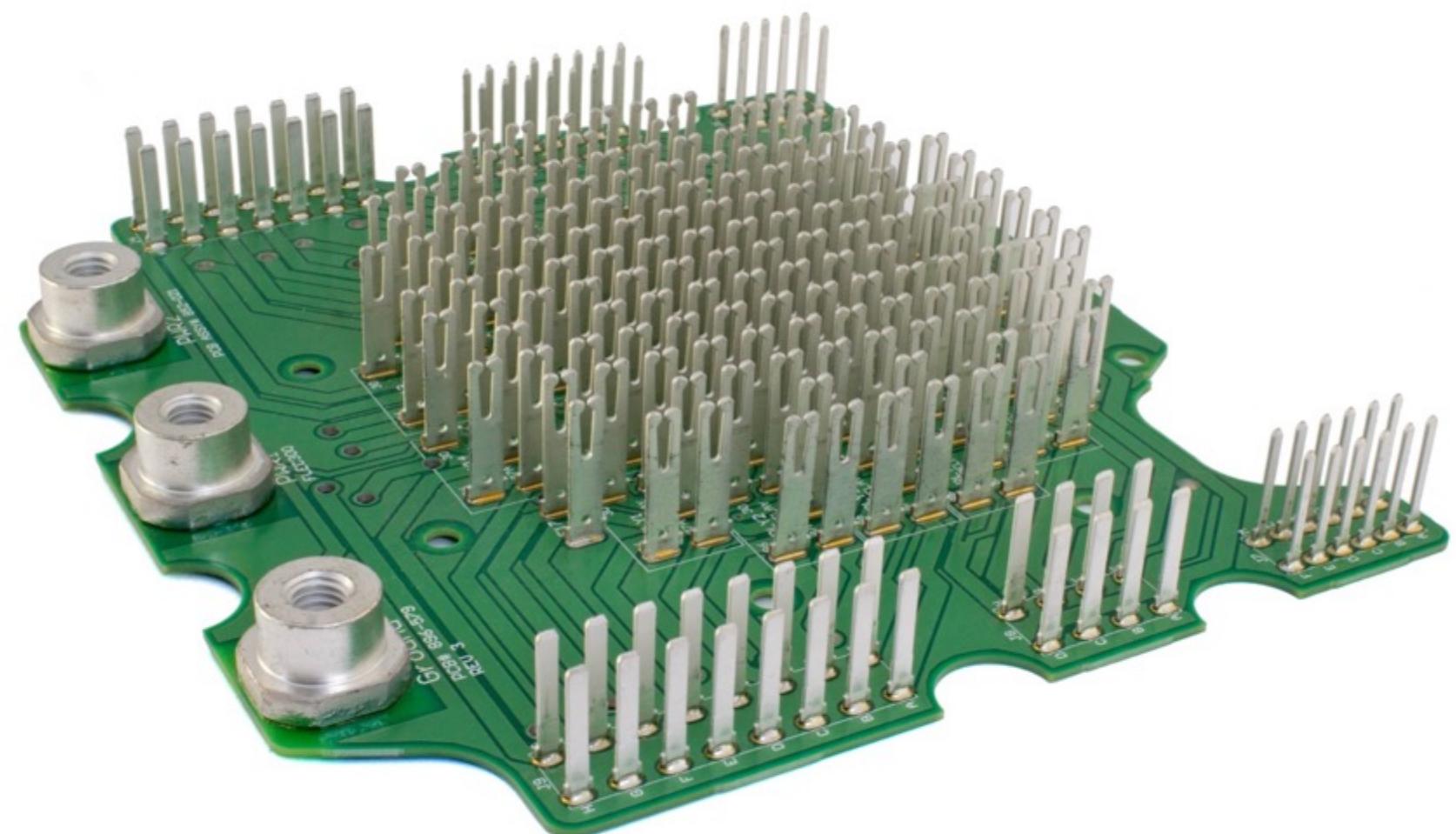
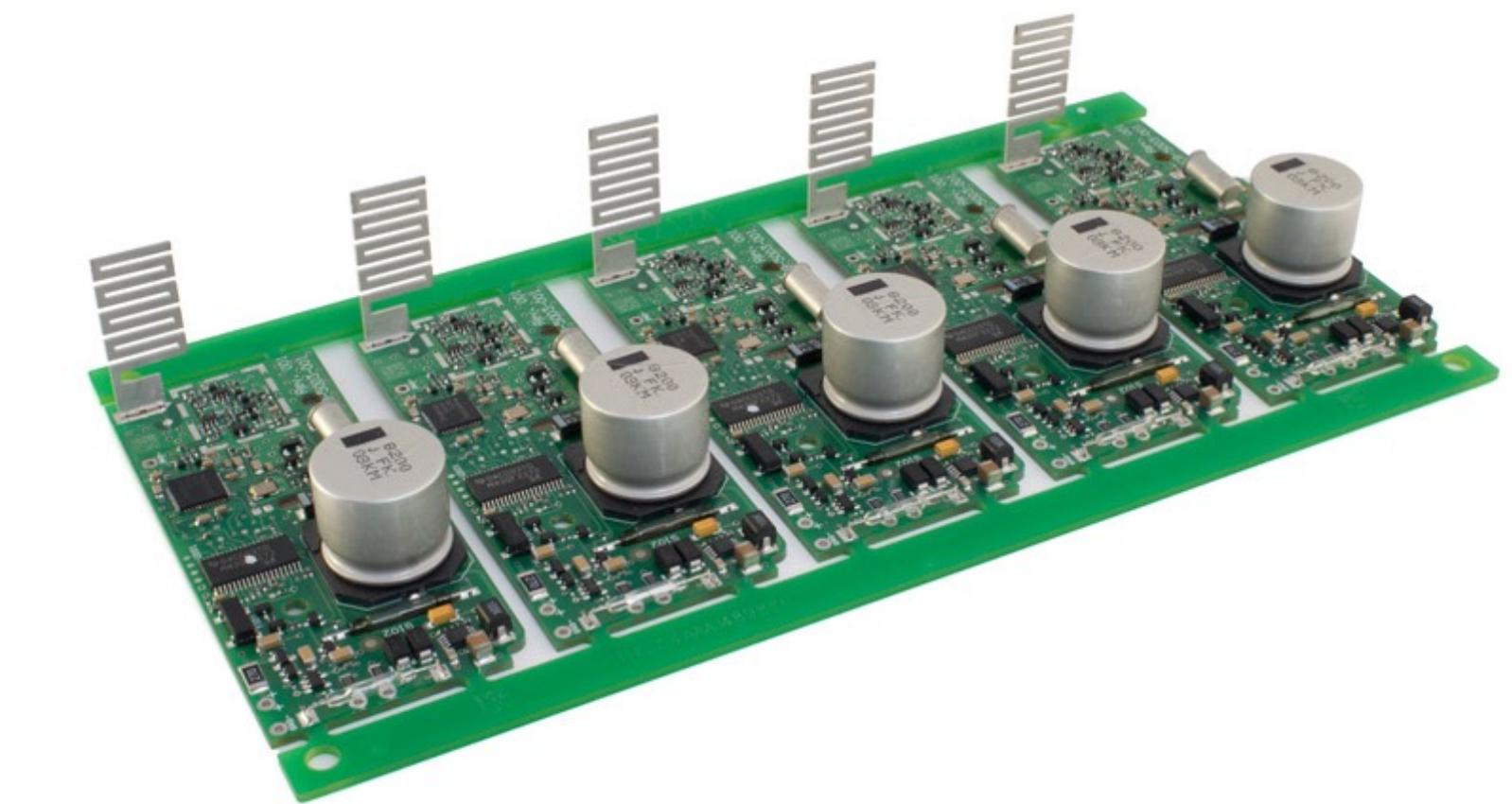
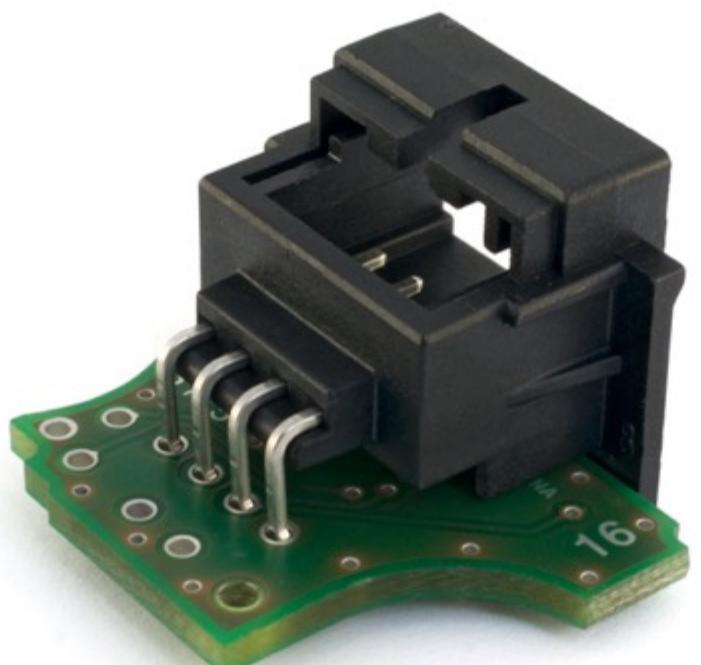
**COMPETITIVE GLOBAL
SUPPLY CHAIN**

**EASE OF DOING
BUSINESS**

**COMPETITIVE COST
MODELS**

**DESIGN TO PRODUCTION
EXPERTISE**

High Mix, Low Volume PCBA



Shape Memory Alloy Applications



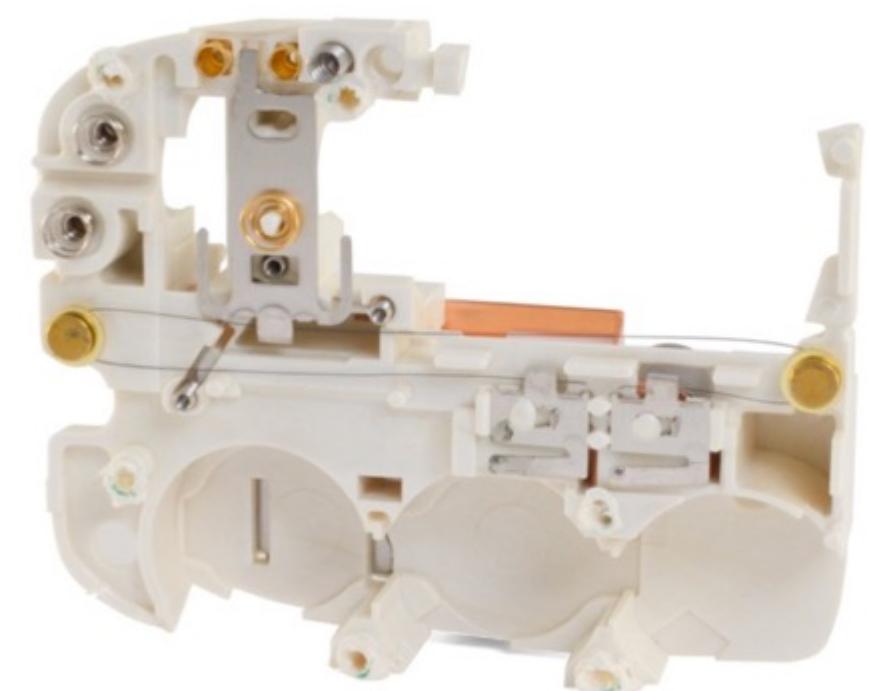
Seat Lumbar & Massage



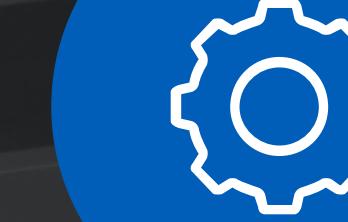
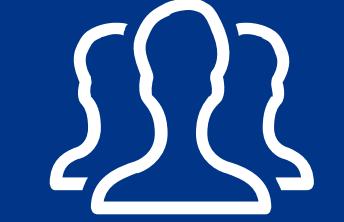
Insulin Pump Actuation



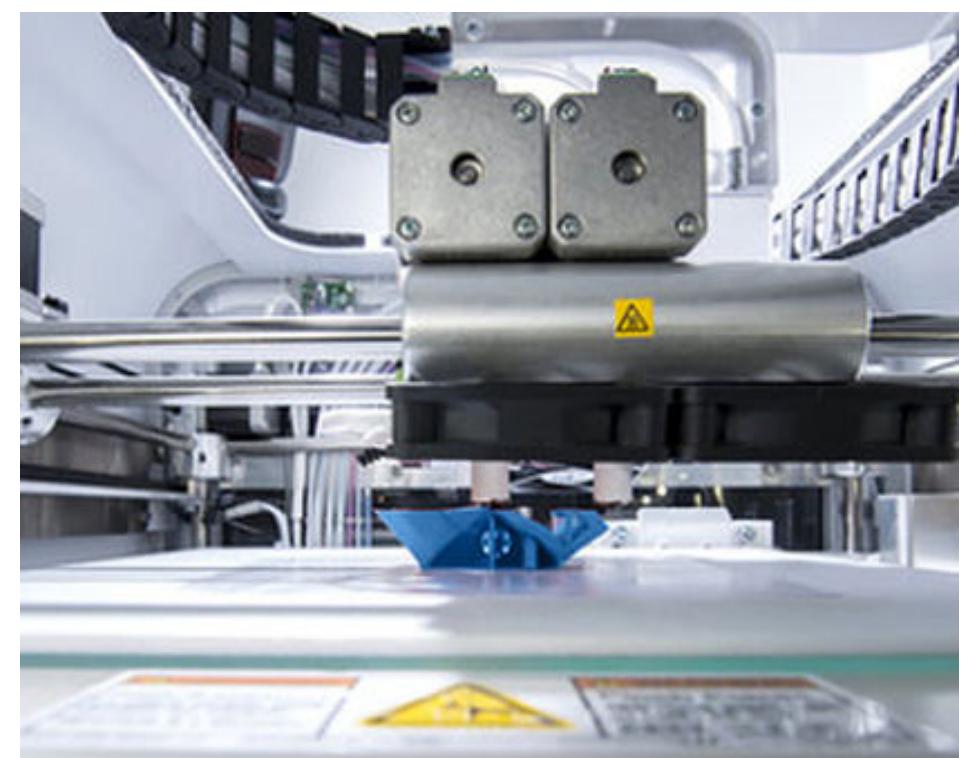
Medical Drug Dispensing



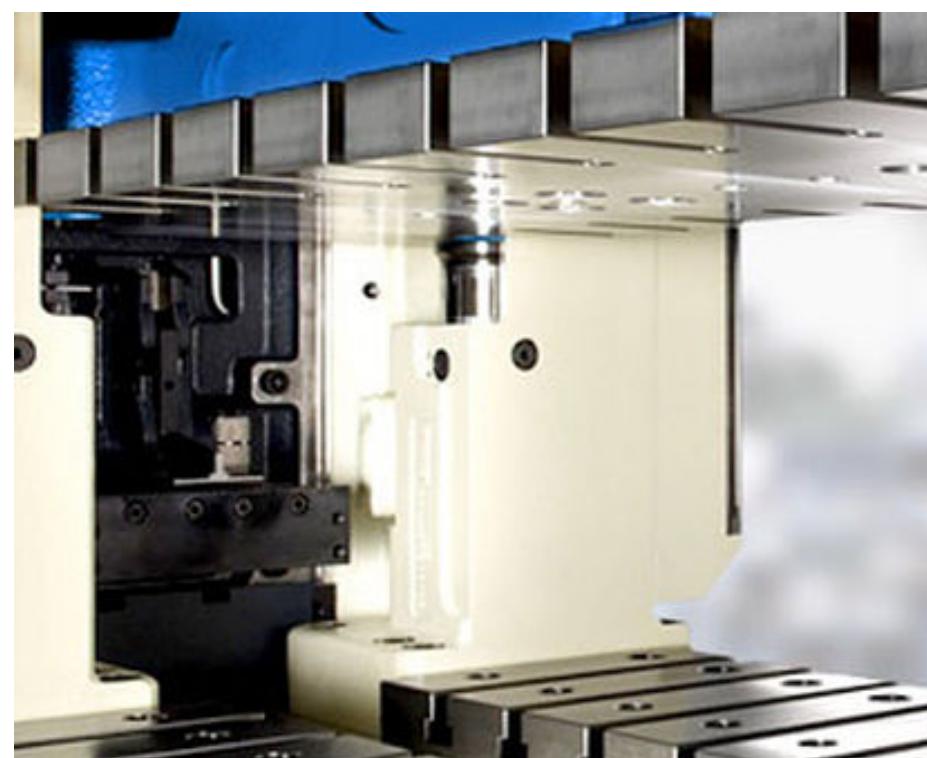
VERTICALLY INTEGRATED CAPABILITIES



Engineering



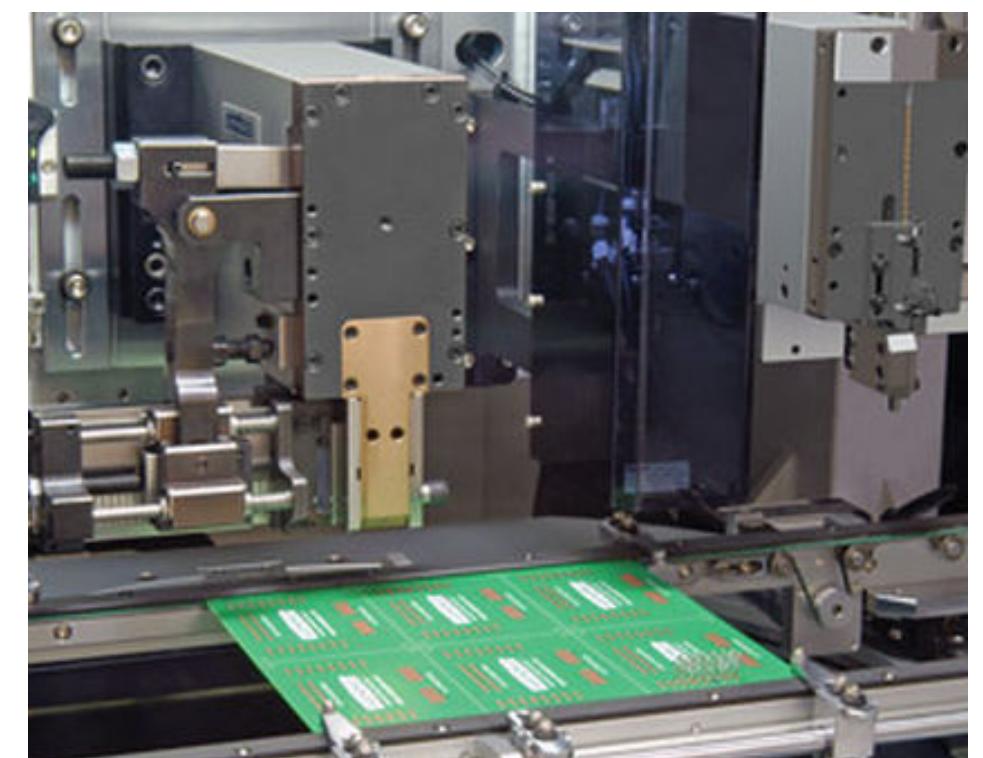
Stamping



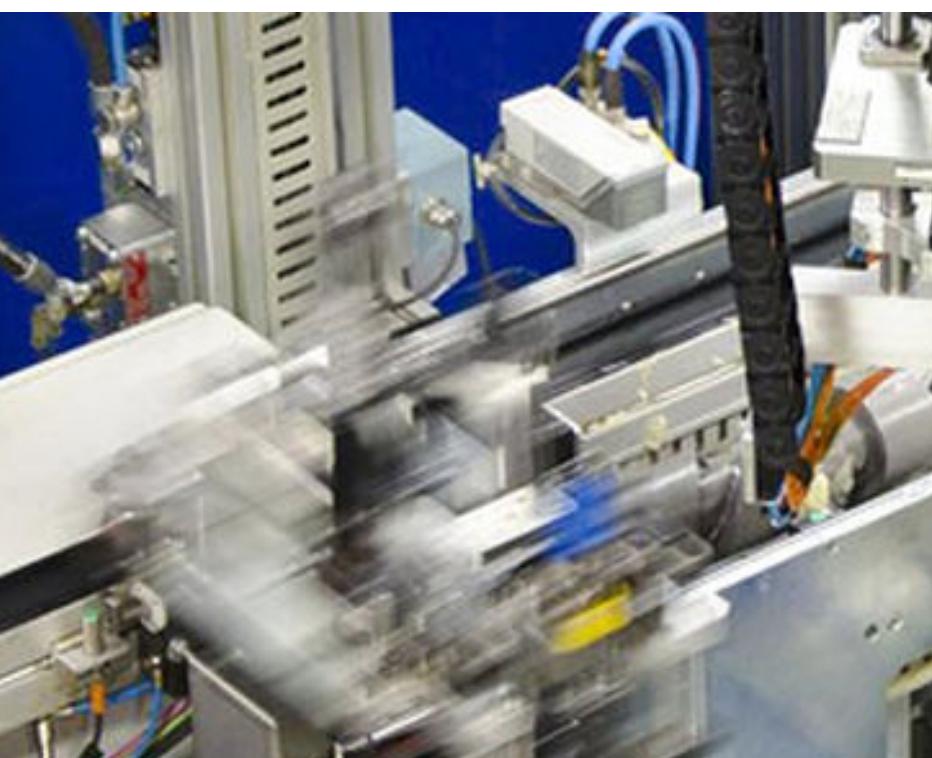
Molding



Assembly



Automation



- Extensive design and engineering capabilities
- Innovative products, supported by 50+ patents
- Strong interaction and cooperation with teams

- High precision, tight tolerance metal stamping
- Automotive approved, press-fit designs
- 35 Bruderer presses 22T-60T

- High tolerance, precision insert molding
- Vertically integrated molding assemblies
- 28 Molding presses (25 T – 400 T)

- High speed pins and tabs insertion
- Power distribution SMT assemblies
- SMA wire crimp assemblies

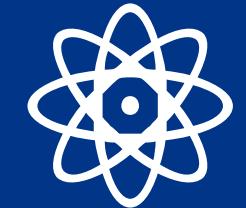
- Assembly specific custom automated solutions
- Precision automated optical inspection
- In-line and off-line solutions for automated insertion



ENGINEERING SERVICES

We have the ability to assist in the design of your products anywhere in the world at our divisions in North America, Europe and Asia.





PRODUCT DESIGN & ENGINEERING

- Design & development of custom connectors
- Design for manufacturability & assembly (DFMA)
- Shape memory alloy (SMA) applications



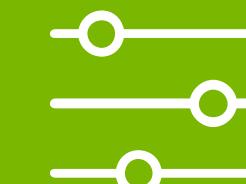
AUTOMATION

- Custom automation for connector/contact assemblies
- Autosplice insertion machine platforms
- Insertion heads for Autosplice insertion machines



TOOLING

- Injection molding tooling development
- Progressive die stamping design
- Custom pin tooling



OTHER SERVICES

- Value engineering for collaborative cost-downs
- Program management of New Product Introduction
- Rapid prototyping

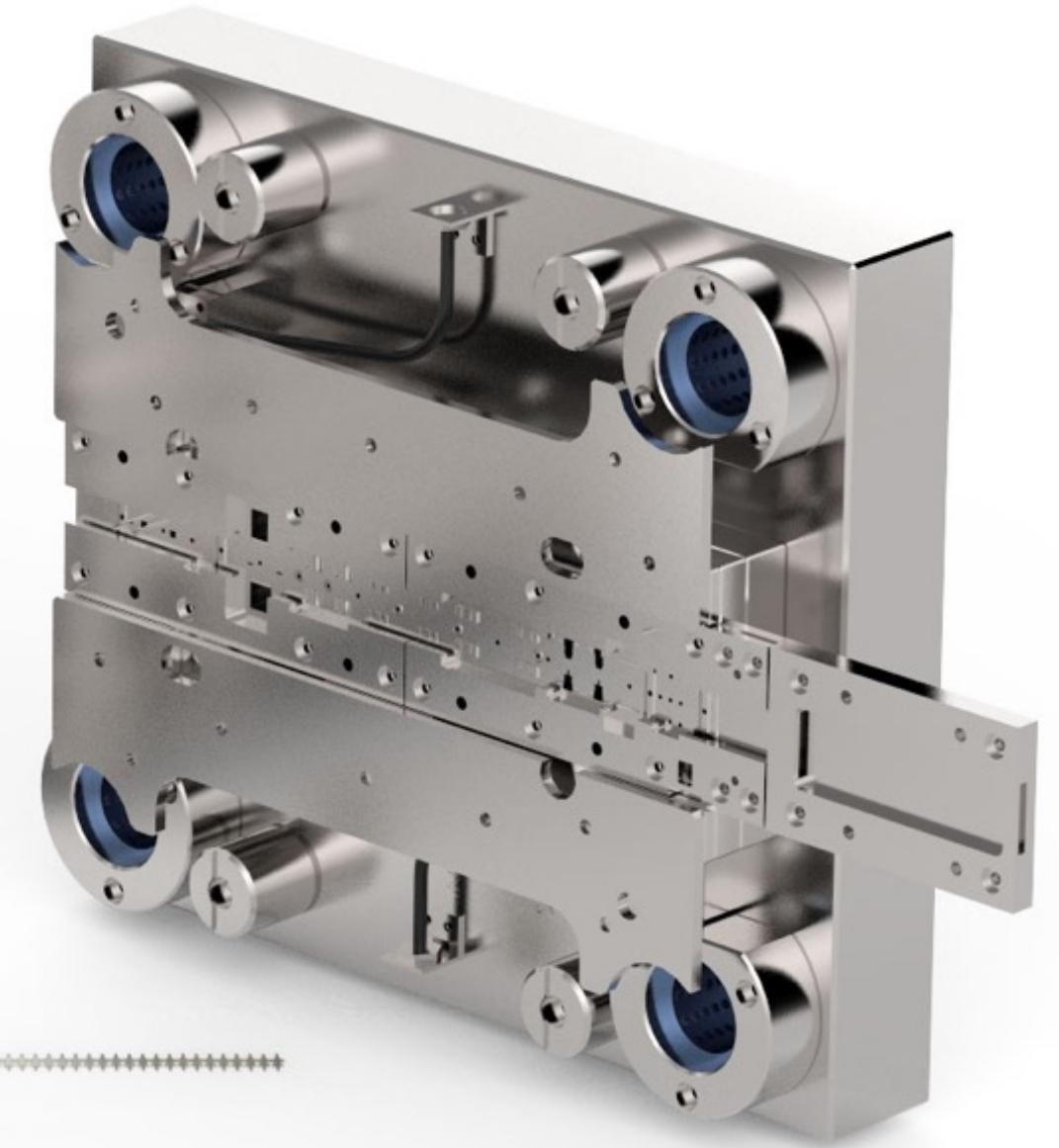
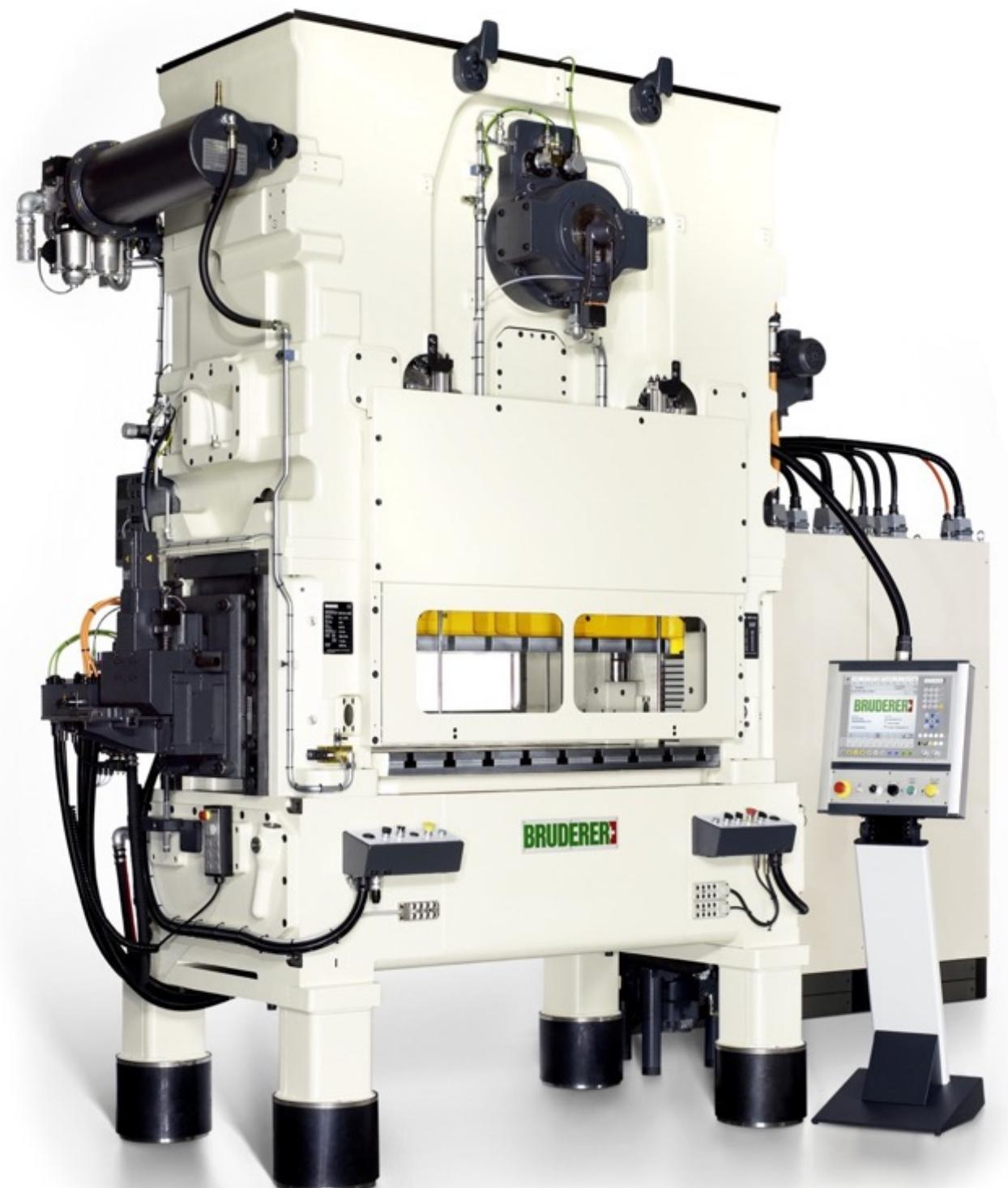


PRECISION STAMPING SERVICES

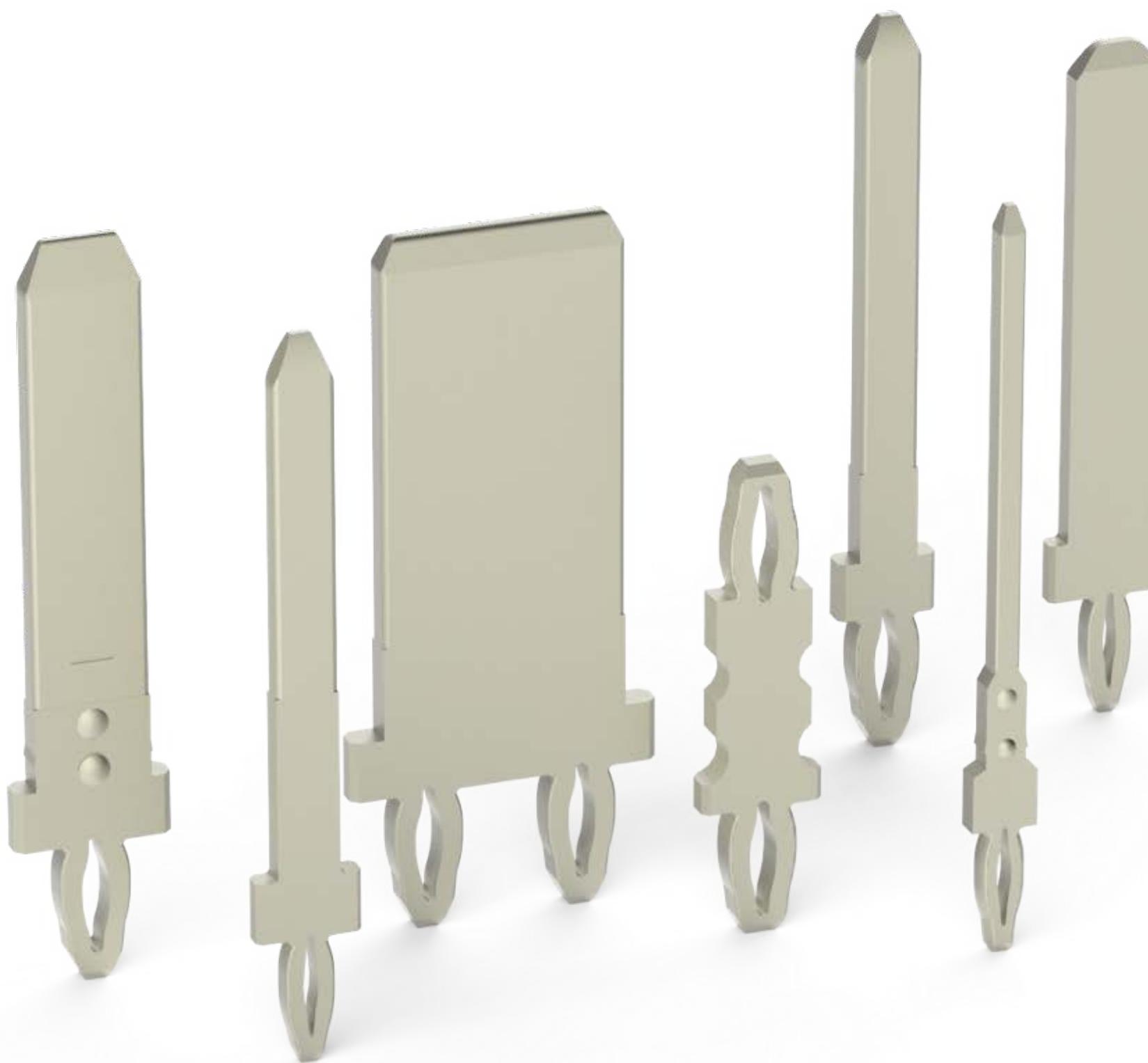
We have the ability to assist in the design of your products anywhere in the world at our divisions in North America, Europe and Asia.



Global Standards

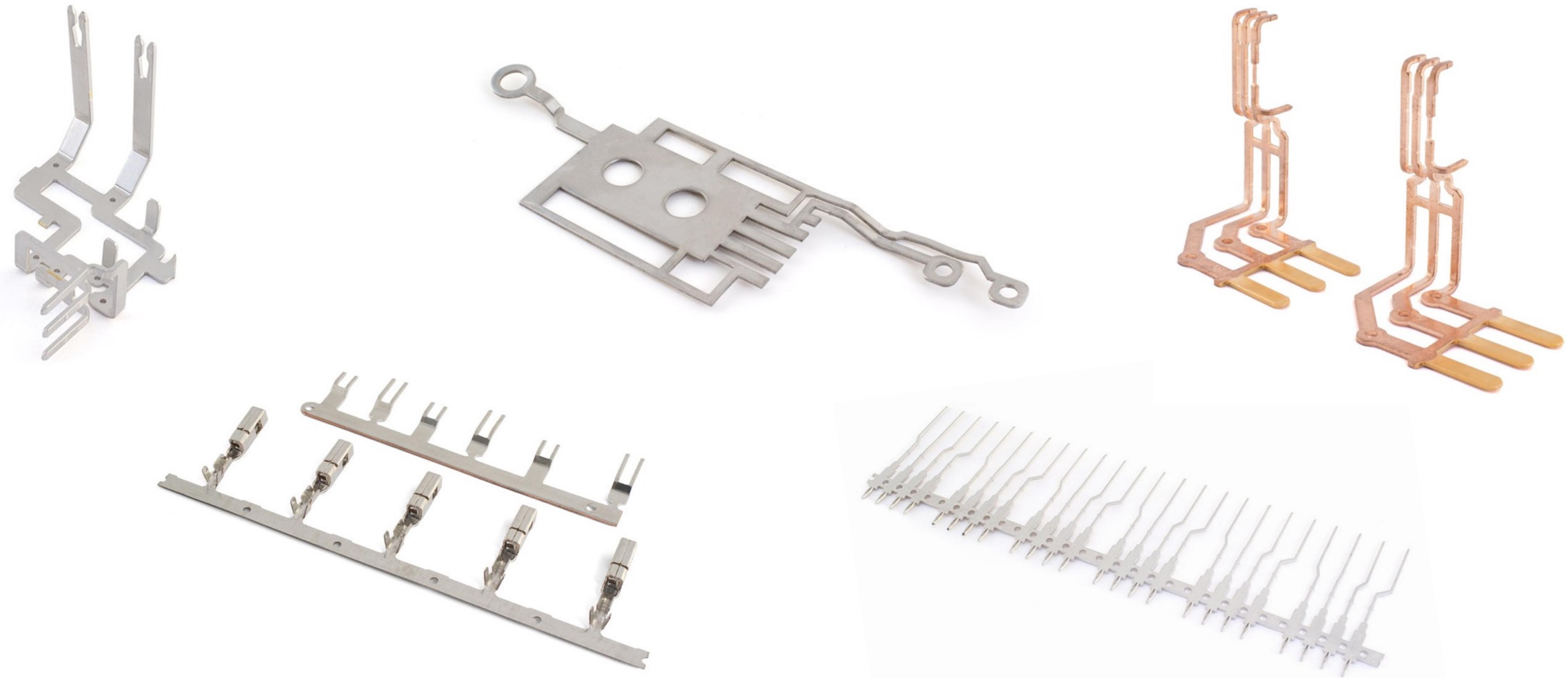


Press-fit Terminals



- 85C to 150C applications
- Interior to Under hood Electronics
- Test Reports Available
- .6mm to 1.2mm (Future state .5mm to 1.2mm)
- Housings to PCB terminals

Miscellaneous Precision Stampings



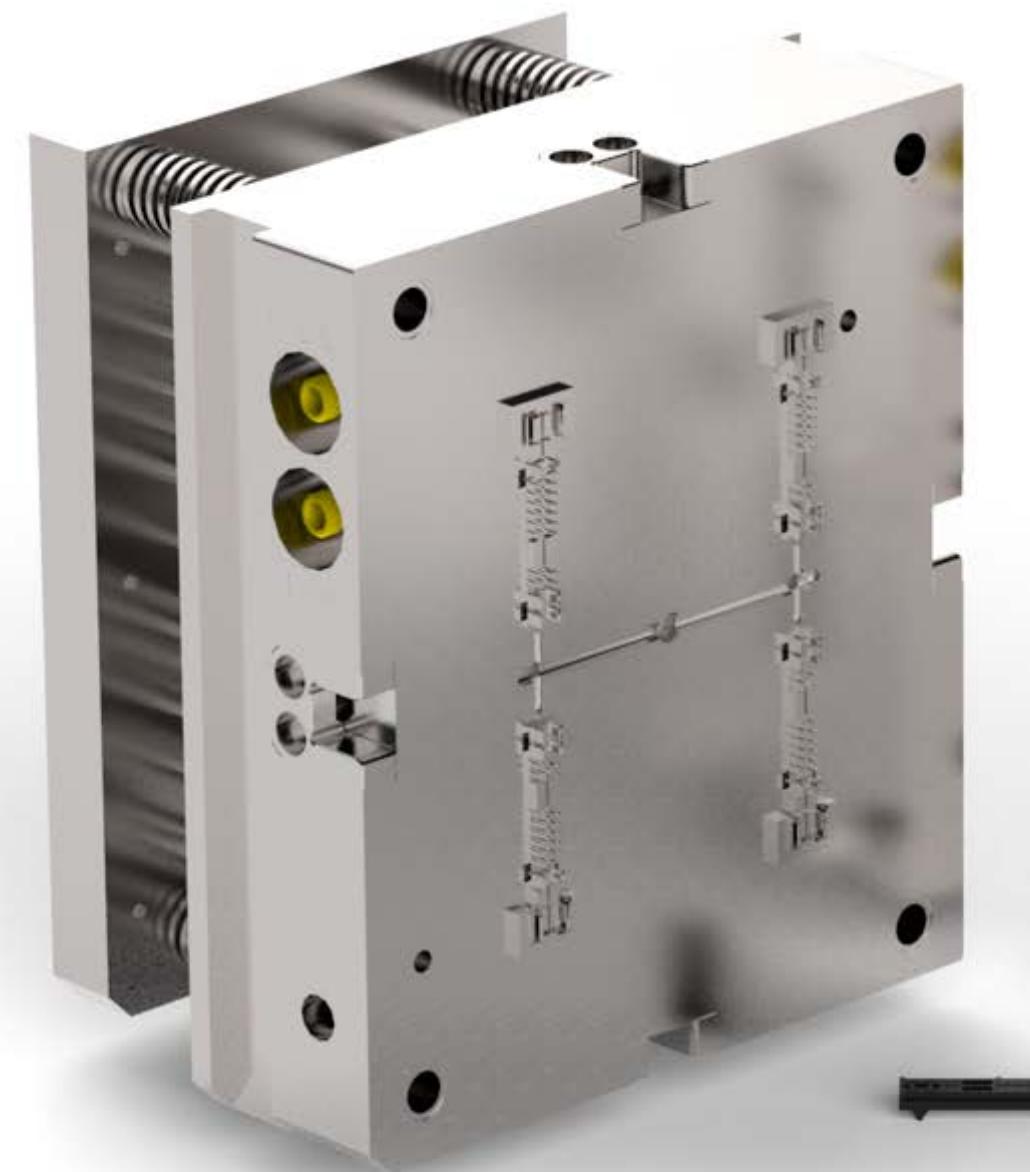


INJECTION MOLDING SERVICES

Interconnect Assembly Module incorporates robust press-fit terminals with precision molding and low cost flexible assembly technology.

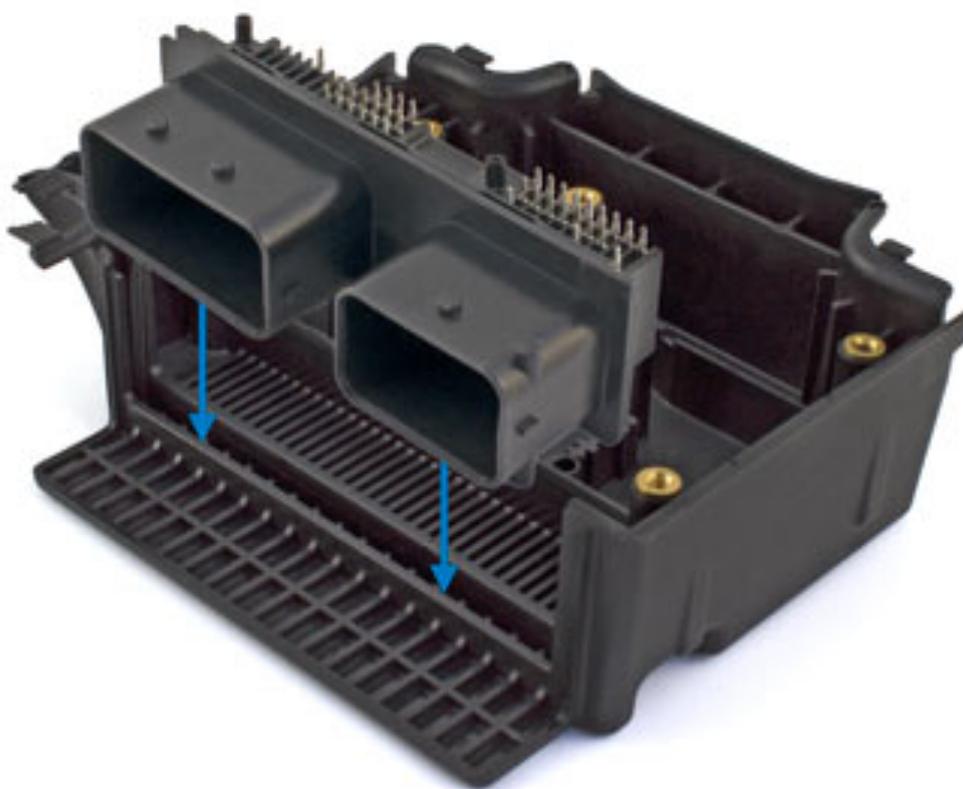
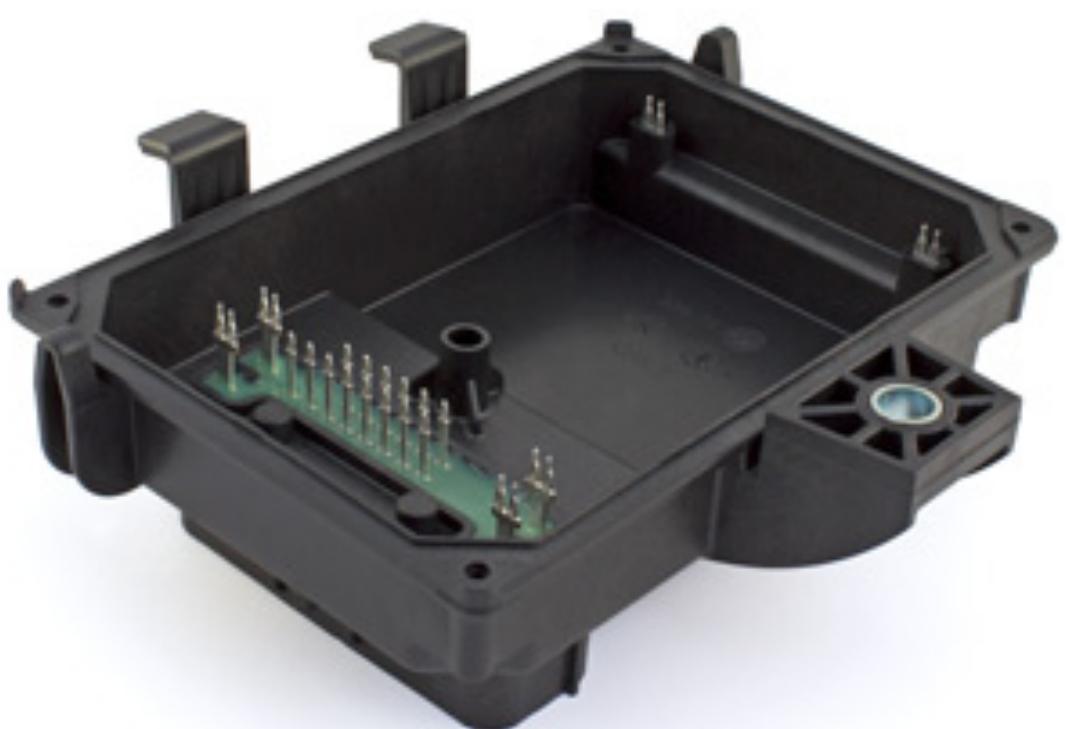


Global Standards



CAPABILITIES

- Horizontal and vertical electric injection molding machines
- Capacities ranging from 35 to 250 tons
- Robot controlled bushing and terminal insertion
- 100% product validation through advanced vision and sensor controlled quality systems.

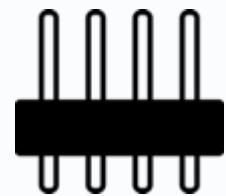




AUTOMATION SERVICES

We offer a full range of automated assembly equipment tailored to meet your manufacturing requirements from fully automated dual head in-line systems to precision bench top machines.





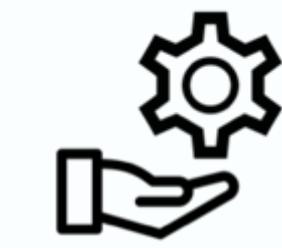
CONNECTOR AND CONNECTOR MODULE ASSEMBLY

Fully- and semi-automated
post-molded assembly
Fully- and semi-automated
insert molded assembly



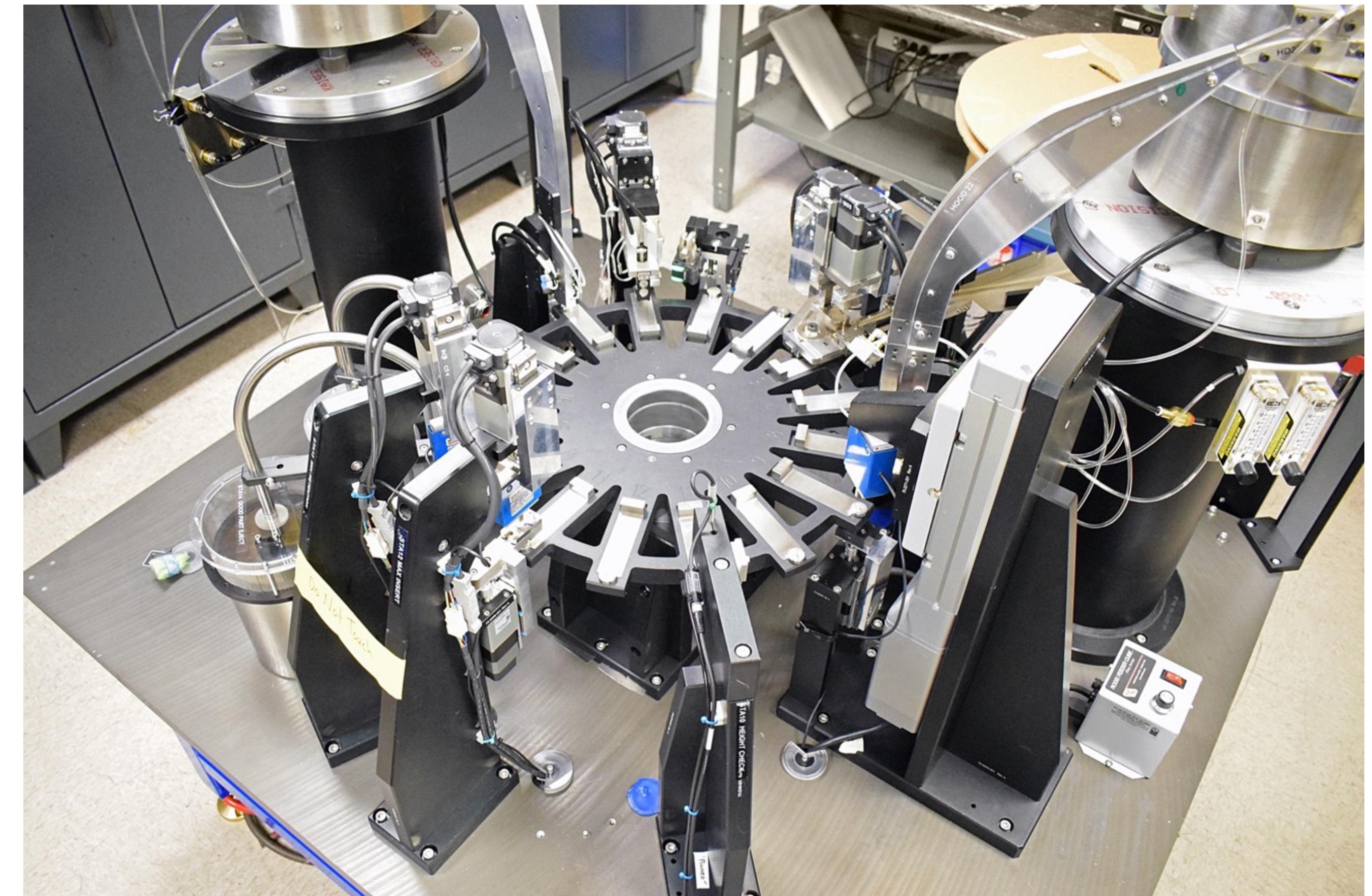
AUTOMATED INSPECTION CELLS

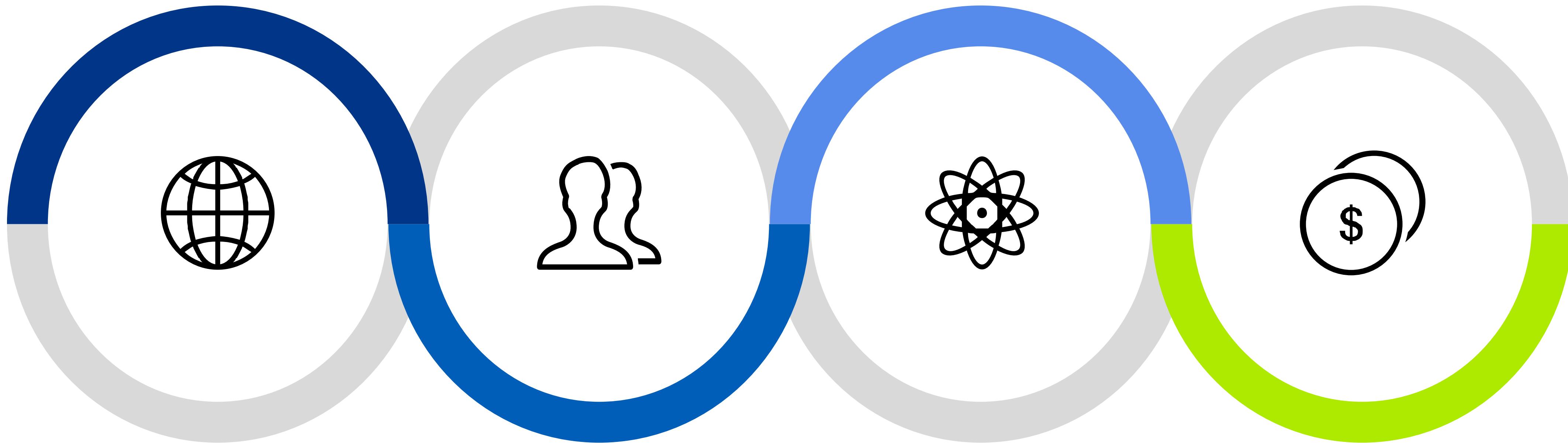
Camera-based inspection
High-pot testing
Continuity testing
Part marking



CUSTOM AUTOMATION FOR HANDLING AUTOSPLICE PRODUCTS

De-reelers
Tape-and-reel systems
SMA wire assembly machines
Insertion machine heads





GLOBAL SOLUTIONS

**CUSTOMER
DEDICATED TEAMS**

**STRONG ENGINEERING
CAPABILITY**

**LOWEST TOTAL COST
SOLUTIONS**

autosplice[®]

Interconnecting the Future