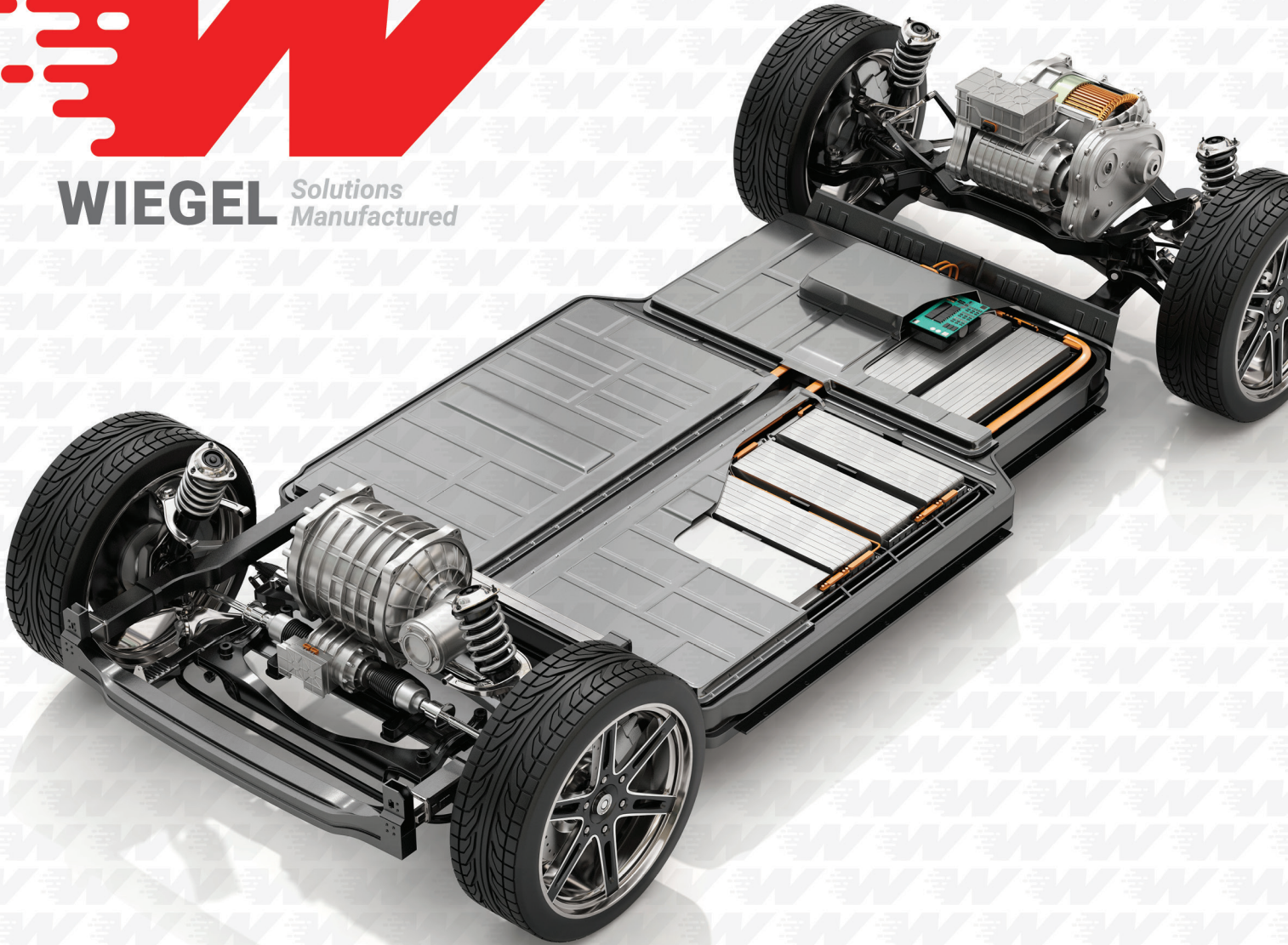




WIEGEL Solutions
Manufactured



E-Mobility and EV Battery Tech Solutions

Metal Stamping and Comprehensive Product
Development, Manufacturing and Assembly

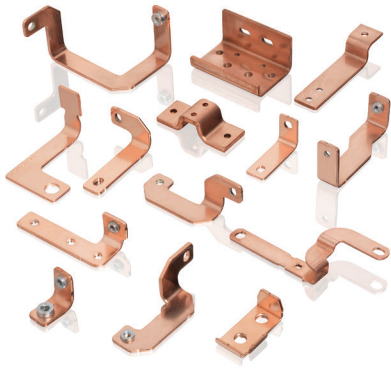
Wiegel supports multi-million-piece, high-volume manufacturing of precision metal stamped components, product assemblies and custom-developed battery products.

Custom-developed solutions for complex and unique product specifications

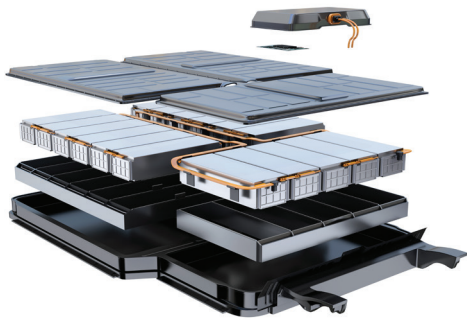
Advanced manufacturing technologies

Sophisticated quality controls

Operating on 207,000SF of production space



HIGH CURRENT BATTERY BUSBARS



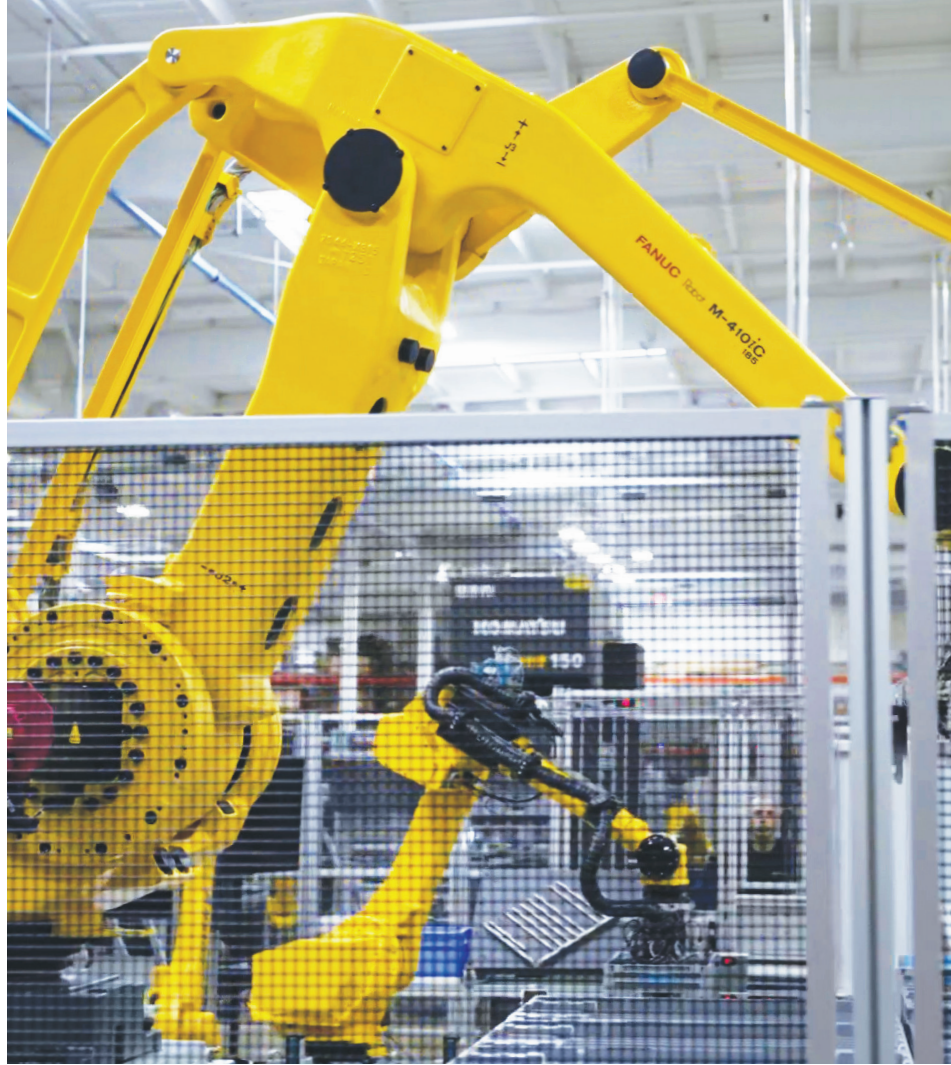
BATTERY PACKS AND BATTERY MODULE COMPONENTS

*Series
Terminal busbars
Current collector assemblies*



BATTERY CELL COMPONENTS

*Cathode collectors
Anode collectors
Battery cell can lids*



BATTERY COMPONENT PRODUCTION AND ASSEMBLY MANUFACTURING SERVICES

STAMPING AND FORMING OF PARTS

- Progressive-die heavy and high-speed stamping systems
- Transfer stamping systems

PLATING AND SURFACE COATING OF PARTS

ROBOTIC JOINING AND ASSEMBLY OF PARTS

- Welding systems
- Bonding systems
- Glue stations
- UV curing systems
- Rollout stations

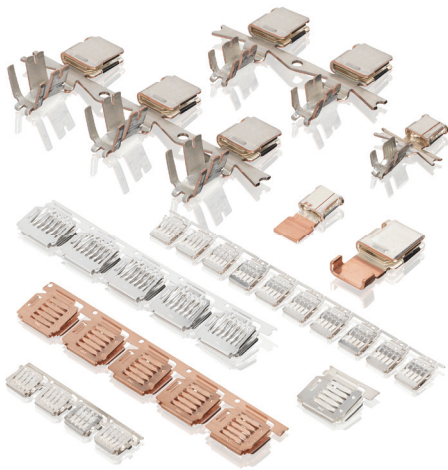
AUTOMATED MATERIAL STACKING AND LAYERING PROCESS

CAMERA DETECTION AND INSPECTION OF PARTS

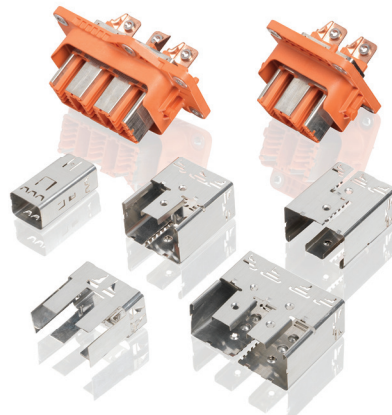
- In-process and post-process camera vision systems (2-D and 3-D camera detection and inspection)
- Safe launch procedures

AUTOMATED CLEANING OF PARTS

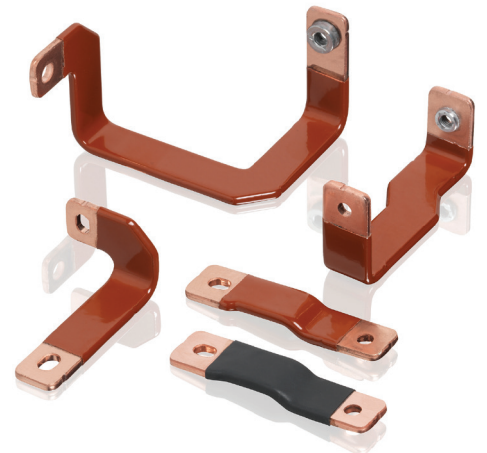
AUTOMATED PACKAGING AND LASER MARKING OF PARTS



POWER PACK TERMINALS AND CONTACT INSERTS



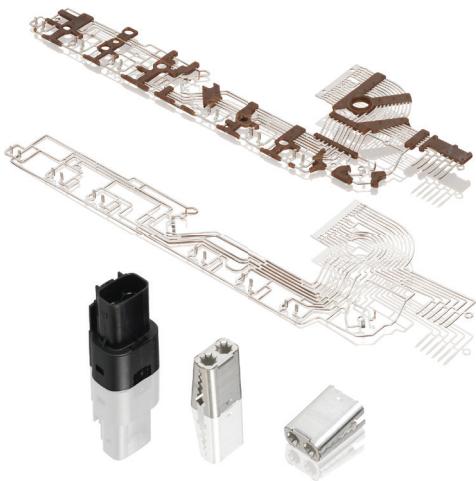
SHIELDS AND TERMINALS FOR ELECTRIC CONNECTOR PLUGS



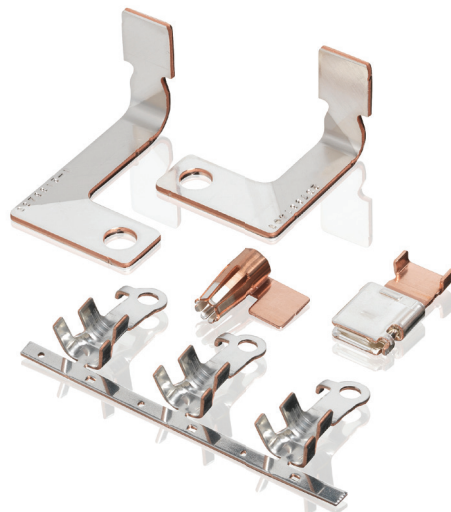
DIELECTRIC INSULATED BUSBARS AND COMPONENTS

Dielectric insulation materials:

- Epoxy powder coating
- Nylon powder coating
- PVC powder coating
- Polyethylene powder coating
- Polyurethane powder coating
- Polyester powder coating
- Vinyl powder coating
- Vinyl plastisol liquid coating
- Heat shrink tubing



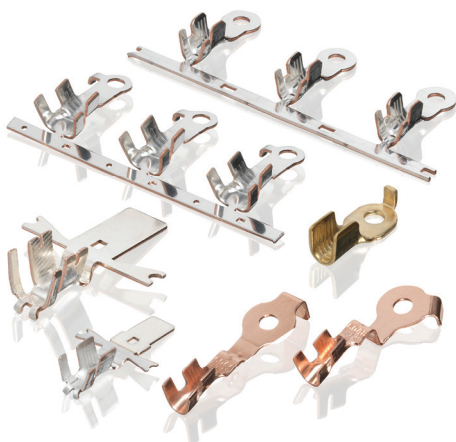
INSERT MOLDED AND OVERMOLDED COMPONENTS



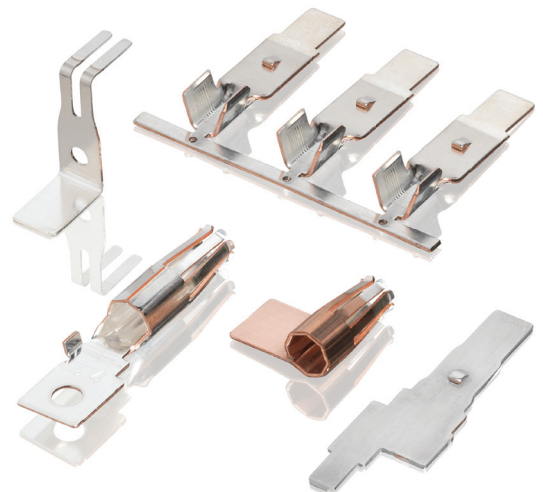
PRECIOUS PLATED COMPONENTS

Pre- and post-plating finishes:

- Copper
- Nickel
- Tin-lead
- Tin
- Palladium
- Palladium-nickel
- Silver
- Gold
- Zinc



BATTERY EYELET TERMINAL AND WIRE CABLE CONNECTORS



TERMINALS, TABS AND CONNECTOR CONTACTS



Our Capabilities

- Progressive die heavy stamping
- Progressive die high-speed stamping
- Transfer stamping
- Battery component manufacturing
- Custom product development and manufacturing
- Robotic automated assembly services
- Waterjet services
- Pre-production tool and die design and manufacturing
- Pre-production rapid prototyping

Parts We Produce

Anode collectors
Assemblies
Cathode collectors
Current collectors
Battery components
Busbars
Brackets
Lead frames
Shields
Terminals, contacts and connectors
Wire cable connectors

Industries We Serve

Aerospace
Appliance
Automotive
Electric vehicles
Electrical
Electronics
Insert and injection molding
Lighting
Medical
Military and defense
Solar
Structural building components
Telecom

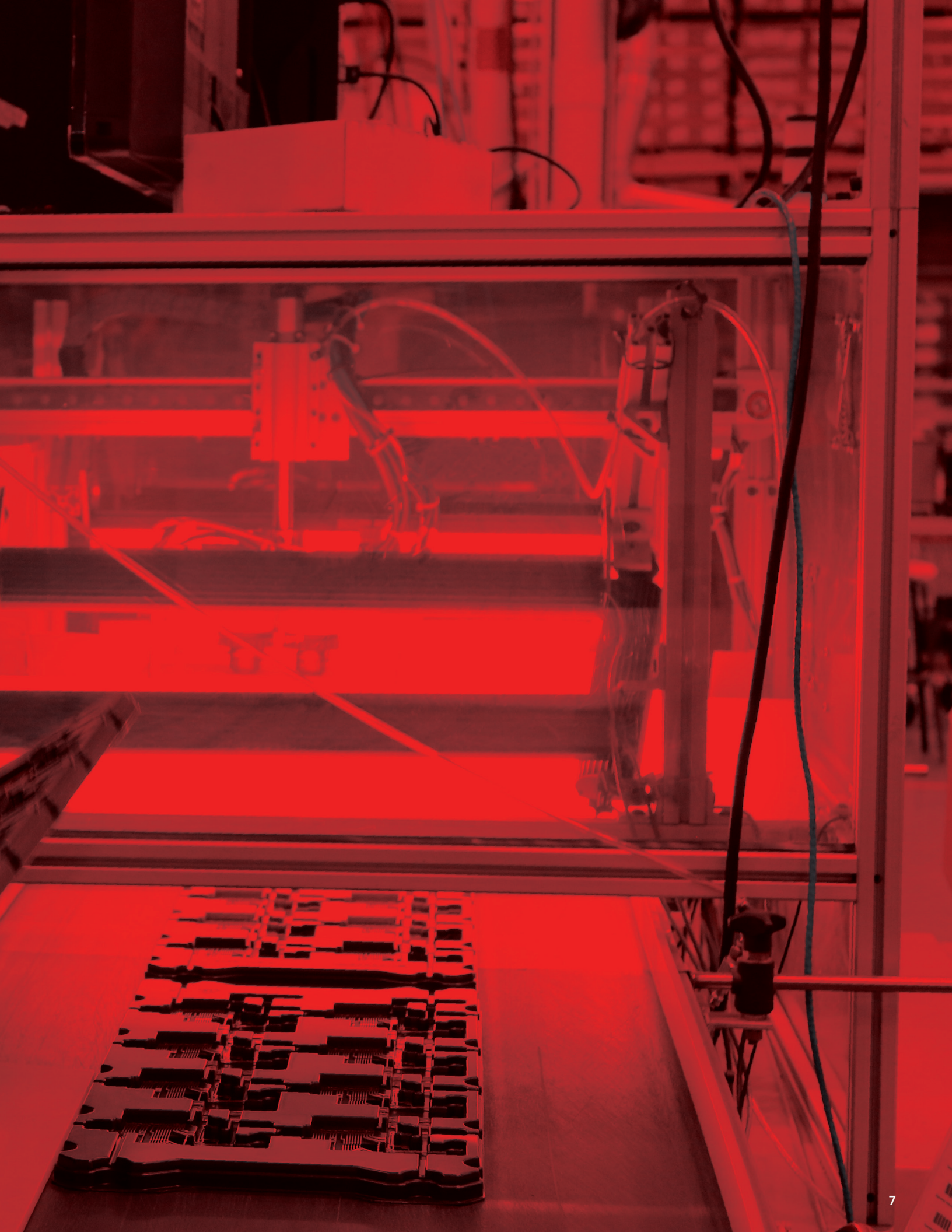


About Wiegel

Wiegel is a leading North American-based progressive die metal stamper, product assembler and battery component manufacturer supplying Original Equipment Manufacturers (OEM) and tier manufacturers across the globe with custom product solutions for over 80 years.

We are a team of over 230 employees, operating on 207,000-sq-ft of manufacturing space in 4 locations in Illinois. Wiegel supports multi-million-piece, high-volume manufacturing of precision metal stamped components, product assemblies and custom-developed battery products.

We're known for investing in advanced manufacturing technology and implementing sophisticated quality controls to meet new and evolving industry product developments.





WIEGEL *Solutions
Manufactured*

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