



Plastics Welding Contract Manufacturing

Custom Manufacturing Services From Concept to Commercialization

Genesis Plastics Welding, an ISO 13485 certified contract manufacturer, provides comprehensive heat sealing solutions for OEMs – from development and design process to prototyping to the delivery of finished goods to the consumer. Genesis engineers are dedicated to helping customers identify opportunities to accelerate their production cycles and decrease manufacturing costs – while producing the highest quality products possible.

Specializing in the art of RF heat sealing, Genesis' production facilities encompass more than 40,000 square feet and RF welding systems ranging from 5KW to 50KW. Material surfaces up to 82" x 42" can be welded on equipment utilizing turn tables, in-line indexing, and single and double shuttle trays.

Contract manufacturing services include customer consultation on material selection and the production process. With more than 25 years experience, Genesis is one of the industry's leading experts in the contract manufacturing of thermoplastic products.



Additional benefits of sourcing contract manufacturing to Genesis include:

- Access to the industry's leading RF technology that welds "green" and non-polar plastics
- The highest commitment to continuous quality improvement
- Total project management from design to shipping logistics
- Strict adherence to regulatory compliance and quality control standards

Medical Device Contract Manufacturing

While our expertise extends to a range of industries, from military to automotive to consumer products and more, Genesis has extensive experience specializing in medical industry product manufacturing. Genesis also houses three environmentally controlled Class 7 Medical Clean Rooms that meet FDA requirements for plastics welding contract manufacturing of Class I, Class II and Class III medical devices and components. Sample medical products manufactured by Genesis include: inflatable bladders, blood pressure cuffs, medical instrument covers, ankle and knee braces, DVT sleeves, protective barrier sleeves, disposable medical products, heating blankets, oxygen hoods, eye masks, cooling therapy wraps and more.

ABOUT GENESIS PLASTICS WELDING

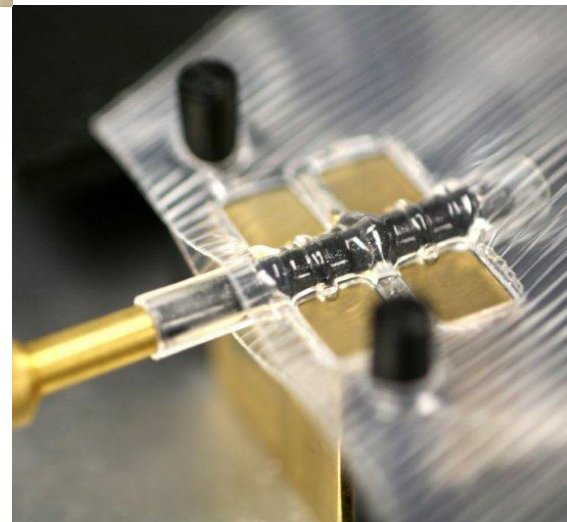
Genesis Plastics Welding specializes in the radio frequency (RF) heat sealing of polar and non-polar products.

SERVICES INCLUDE:

- ▶ Contract Manufacturing
- ▶ Licensing of Technology
- ▶ Research & Design Services

CAPABILITIES INCLUDE:

- ▶ RF Welding/Dielectric Welding
- ▶ Ultrasonic Welding
- ▶ Impulse Welding
- ▶ Low to High Volume Production
- ▶ Clean Room Manufacturing
- ▶ Research, Design and Product Development
- ▶ Tooling Design and Creation
- ▶ CAD and Technical Drawings
- ▶ Functional Prototyping
- ▶ Process and Product Validation
- ▶ Material Selection and Evaluation
- ▶ PVC and PU Replacement
- ▶ Functional Testing
- ▶ Custom Packaging
- ▶ Logistics and Shipping



Contact Us

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GenesisPlasticsWelding.com

Go "Green": License ecoGenesis Plastics Welding Technology

Not only are contract services available from Genesis, but ecoGenesis technology is also available for global licensing to qualified OEMs and is adaptable to most conventional RF welding machinery. Whether you choose to outsource your manufacturing to Genesis Plastics Welding or license our ecoGenesis technology for high-volume, in-house production, the use of our proprietary technology results in a final product that is superior to that produced with traditional RF heat sealing.

Licensing ecoGenesis delivers clients direct benefits that their competitors can't realize, including the ability to weld lower cost raw materials, produce higher quality and more attractive welds and expand marketing channels.

Additional licensing benefits include:

- Little to no capital investment: In most cases, use the standard RF equipment you already own and current tooling.
- Versatility: The same machine can switch between polar and non-polar materials, such as welding PVC and then PP or PE.
- Lower operating costs: eliminate the need for costly head seal additives.

Our ecoGenesis technology makes it feasible to utilize standard RF equipment to heat seal most low-loss plastic materials. If you have questions about any other plastic materials not listed in the chart below, please contact Genesis.



Polymer Group	Subgroup	Standard RF	ecoGenesis™
Polyvinylchloride	PVC	✓	✓
Polyurethane	PU	✓	✓
Polyethylene Film, Co-extrusions, Multi-laminates, Non-wovens, Foam, Fabrics	HDPE, MDPE, LDPE, LLDPE, ULDPE, mPE (metallocene)		✓
Polypropylene Film, Wovens, Non-wovens, Laminates	PP (homopolymer), CO-PP (copolymer), mPP		✓
Polyester Film, Wovens, Non-wovens	PET, CO-PET		✓
Nylon Film, Wovens, Non-wovens	NY, Co-Extruded		✓
BioPlastics	PLA, PHB, PA 11, Bio-Derived PE		✓

Genesis Plastics Welding is an ISO 13485:2003 certified contract manufacturer providing radio frequency (RF) welding and heat sealing applications of plastic products for military, medical and other industries. Products include military helmet pad systems, blood pressure cuffs, inflatable bladders, hot and cold therapy devices, compression therapy sleeves, disposable heating

blankets and drainage bags. Genesis' proprietary heat sealing technology, ecoGenesis™, allows RF plastics welding of very thin gauge (down to 0.001 inch) polyethylene, polypropylene and low-loss polymers and can facilitate polyvinylchloride (PVC) and polyurethane (PU) replacement with phthalate-free plastics. For more information visit www.genesisplasticswelding.com.

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