

Nammo Composite Solutions

Nammo Composite Solutions, located in Salt Lake City Utah, manufactures composites for a diverse base of customers including the Aerospace, Defense, Oil, Industrial, and Recreational industries. Nammo CS has been designing, testing, and fabricating composites for over 20 years. We have a history of solving problems under demanding requirements. Whether the issue is unyielding materials, challenging shapes, or tight delivery schedules, we have delivered when others have failed. Our long-time customers can tell you that we provide one-of-a-kind technical support during the development phase and constant contact in full-rate production.

As a leader in N-C controlled filament winding, our custom made winding equipment is designed with accuracy, reliability, and rate production in mind. We currently run a combination of six, single-spindle and multi-spindle, machines that allow us to both keep up with production and to engineer new designs for new customers and new applications. Nammo CS's machines are flexible and permit us to run both "wet-wound" material and towpreg including graphite, fiberglass, and aramids. In addition to our custom filament winding machines, Nammo CS performs layup of fabrics for oven cure and autoclave cure. Our two autoclaves are large enough to cover most applications, at sizes of 35' by 5' and 22' by 6' respectively. In cases where cycle times are a problem, Nammo CS can perform an affordable bladder molding process. When precise control of thickness is critical, resin transfer molding can yield one-piece composite structures, with or without foam core.

Nammo Composite Solutions is an ISO9001 / AS9100 certified company. Our goal is to provide parts on-time and in compliance to our customer's requirements. Maintaining focus on our customers' requirements has been critical to our organization's success. In addition to several in-house manufacturing capabilities, Nammo CS has extensive experience in composite part bonding, including selection of surface preparation, application technique, adhesive selection, and cure. This process is critical to successful bonding and can result in a joint that is as strong as or stronger than a welded metal joint. Nammo CS also specializes in assembly of metallic components and other details to provide "valued added" integrated assemblies.

Nammo CS has extensive machining capabilities for trimming and drilling of composite materials. Our machining resources include N-C controlled routers, 4-axis CNC mills and a CNC lathe, and laser machining. For production work cells Nammo CS also designs and fabricates task specific machining stations. Nammo CS can perform cylindrical and center-less grinding, lathe turning, and router machining for the machining of models, molds and parts. By machining our own molds and mandrels we provide low-risk, competitive upfront development solutions while shortening the long lead times often associated with subcontract tooling fabrication.

From simple to complex tubing, plates, to panels and complex shapes and structures, Nammo CS takes pride in offering the latest material and processing technologies available in the world of composites manufacturing. Our experience with a wide variety of materials and processes allows Nammo CS to provide diverse solutions for reducing touch labor, minimizing weight, and improving performance. Our in-house materials lab and environmental test equipment allows us to screen and sample the sensitive materials we use in our composites manufacturing processes. Our composites design software in conjunction with our tensile, compression, fatigue, and impact test equipment enables us to provide optimized structures with engineering confidence.

Contact:

Karl Hawes

Marketing Manager

Nammo Composite Solutions

1000 South 500 West

Salt Lake City, UT 84101

801.350.6120

khawes@nammo-cs.com