

Nova, a product and service brand of Curtiss-Wright Nuclear, supplies ASME Code, safety-related and commercial grade fasteners and precision-machined components, HydraNut® bolting systems, tensioning solutions, PlasmaBond® engineered surfaces, safety-related construction products including UNISTRUT metal framing system, supply chain management, obsolescence solutions, reverse engineering and custom manufacturing services. Their engineered product offering includes HCU accumulators, core plugs, and control rod drive rebuild kits.

Since 1984, the very core of Nova's nuclear business has been meeting customer's requirements by delivering products and services that maximize up-time, reduce operating costs and improve safety. Innovative products are changing the face of the nuclear power industry by dramatically accelerating closure time for reactor vessel heads, steam generators, circulating and coolant pumps, and valves, increasing plant efficiencies, and significantly reducing worker radiation exposure.

Nova

Bolting Solutions

Fasteners

- Bolts: hex, heavy hex, locking, shoulder, bent, eyebolts, U-bolts
- Nuts: hex, heavy hex, locking, wing, cap
- Pins: headed, headless
- Rivets
- Screws: hex head cap, hex socket head cap, heavy hex, button head, 12-point, tapping, machine
- Set screws
- Studs: double end, fully threaded
- Washers: fat, lock, tab

Construction Products

- UNISTRUT® safety-related metal framing systems
- COPE® cable trays
- Concrete anchors
- Embed anchors
- Structural bolting
- Pipe supports, hangers, accessories

Bolting Solutions

- HydraNut™ bolt tensioning system
- Tensor bolt tensioners
- PlasmaBond™ metal film lubricant
- Nut runners
- Stud runners
- Lifting devices for studs, nuts, washers
- Stud racks for single and multiple studs
- Elongation measuring systems
- Tensioning, detensioning services

Precision Machined Components

- Valve stems, plugs, fittings
- Pump shafts
- Valve studs, nuts
- Pump studs, nuts
- Primary manway closure studs, washers, nuts
- Explosion bolts
- Flanges
- Reactor Coolant Pump Main Flange studs, nuts
- Reactor Vessel Main Flange studs, nuts, washers
- Impeller screws
- Turbine bolts, studs, washers, nuts

Supply Chain Management Services

- NSA Services: Inventory management, Parts management
- Utility Stock Exchange database
- Spare parts identification and cataloging
- Standardization programs

Engineering/Technical Services

- Nuclear application experienced engineers and technical staff
- Reverse engineering
- Obsolescence solutions
- Commercial Grade Dedication (CGD)
- 24/7 technical support

Manufacturing Capabilities

- Bending
- Center-less grinding
- CNC turning
- CNC milling / machining centers
- Drilling
- Hot forging
- Manual turning, milling
- Rolling
- Screw machining
- Stamping
- Thread-rolling
- Welding
- Wire and RAM EMD
- Fabrication and assembly

On-Site Laboratory and Testing Capabilities

Chemical Analysis

- Spectrometer-optical emissions
- X-ray fluorescence alloy analysis

Mechanical Testing

- Tensile testing
- Hardness
- Charpy impact
- Torque-tension

Metallurgical

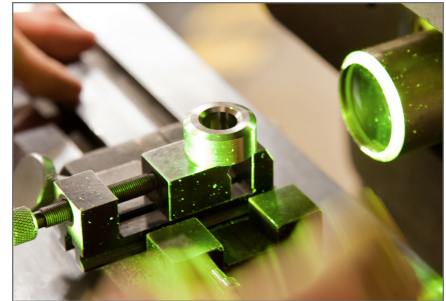
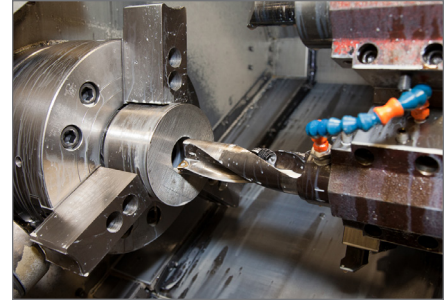
- Micro-hardness
- Decarburization

Dimensional Inspection

- Coordinate measuring machine (CMM)
- Faro Arm

Non-Destructive Testing (NDT)

- Magnetic particle
- Liquid penetrant
- Ultrasonic testing



Quality Standards:

- 10CFR50 Appendix B; 10CFR21
- ASME NQA-1
- ASME Section III Class 1, 2, 3, CS, MC/MO
- ANSI N45.2
- CSA Z299.1, Z299.4 (canada)
- ISO 9001: 2008
- EPRI NP-5652, TR-102260,
- TR-017218-R1
- MIL-1-45208, MIL-STD-45662, MIL-STD-271

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