



MANUFACTURER OF PARTS & COMPONENTS FOR ELECTRIC UTILITIES & INDUSTRIAL CUSTOMERS

**PIONEERS IN ELECTRICAL CONTACTS & COMPONENTS
MANUFACTURING SINCE 1981**



NATIONAL MANUFACTURING & DISTRIBUTION, INC

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THE BEST CONTACTS IN THE BUSINESS!



National Manufacturing & Distribution, Inc. manufactures or rebuilds electrical contact, component parts and assemblies found in the typical utility and industrial electrical apparatus. National can supply parts deemed obsolete by the OEM, at a lower cost with better delivery. Since 1981, National has supplied tens of thousands of parts to our customers around the world.

NATIONAL OFFERS CONTACTS FOR:

- high, medium & low voltage electrical apparatus
- new or rebuilt
- obsolete or current

TAP CHANGERS

National works with any style or make of transformer TAP changer:

- inspecting TAP changer mechanisms
- overhauling TAP changers in our facility
- building barrier boards, contacts, and other components
- complete contact kits available for customer on-site maintenance



OIL CIRCUIT BREAKERS

- overhauling OCB's at our facility
- interrupter assemblies
- lift rods
- contacts and baffle assemblies
- complete contact kits available for customer on-site maintenance

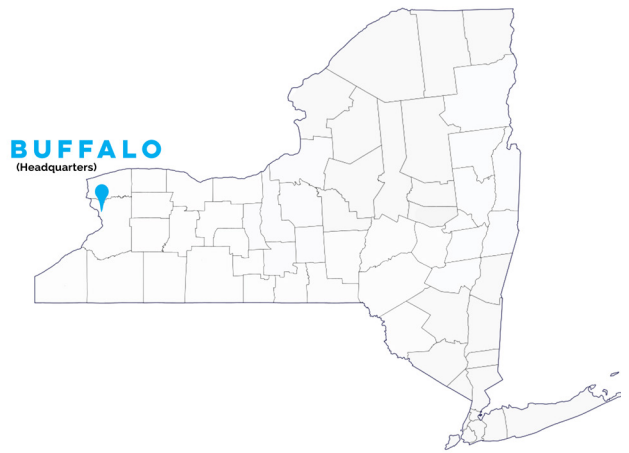
A RANGE OF MACHINING



National produces a wide variety of machined parts utilizing CNC machines and manual machines. We manufacture parts from metals or non-metallic materials to specific samples, drawings or sketches, generating prototypes, short runs or large quantities.

National has compiled hundreds of drawings and programs for most of the equipment found in utility and industrial apparatus. We may already have the specifications or inventory for the parts you need.

Rather than purchasing a costly subassembly or complete device, National offers the flexibility to purchase individual components as needed, including contacts, shunts, side plates, mounting boards, rollers, pivots, brackets, supports etc...



WE COVER ALL THE CIRCUITS

National Manufacturing & Distribution has been building and refurbishing electrical contacts and component assemblies for high, medium and low voltage electrical equipment since 1981. We work with utilities, manufacturing firms, electrical contractors, municipalities, and service centers nationwide.

We offer a full spectrum of:

- contact manufacturing
- switchgear renovation
- general machining
- bending and forming
- brazing and soldering
- CAD engineering services

THE NATIONAL POWER SOURCE

The headquarters of National Manufacturing & Distribution in Buffalo, NY, includes a 34,000 square ft. fully equipped, state-of-the art machine shop to manufacture, re-tip or refurbish all types of electrical contacts and apparatus components.

National's machine shop services include:

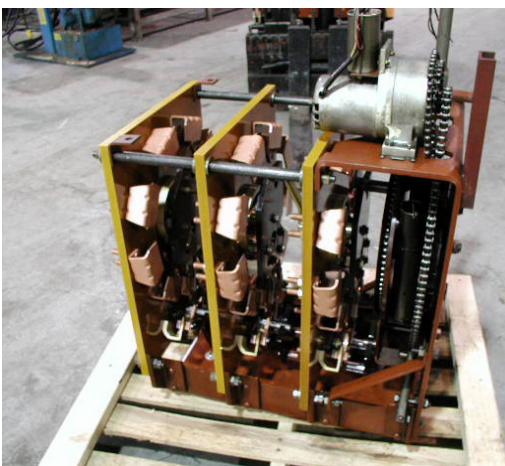
- milling- any material, CNC or manual
- drilling- any size
- tapping- any size
- turning- CNC and manual
- bending & forming- 220-ton pressing capacity
- sawing- plates, bars, etc..., cut-offs & shapes
- glass bead blasting & ceramic tumble- cleans without loss of base material

ALL THE RIGHT CONTACTS

Because National is able to design and manufacture its own components, it can provide component parts no longer manufactured by the original equipment manufacturer. In fact, National's component costs are often lower than OEM models because of our ability to build or rebuild contacts at a fraction of the original cost. Stocking parts and materials for a wide selection of components enables National to process orders quickly, saving weeks or months of downtime over OEM-sources components.

NATIONAL MANUFACTURES OR REFURBISHES:

- electrical contacts for oil circuit breakers, tap changers, and disconnects
- tap changer assemblies
- baffle assemblies for oil circuit breakers
- barrier boards
- mounting boards
- interrupter assemblies
- arc chutes
- shunts
- switches- complete overhaul, component overhaul
- disconnects- complete rebuild, new or refurbished
- busbar- single pieces or complete projects
- circuit rings, stator leads, etc, for hydro jobs
- special connectors for electrical apparatus



LTC EQUIPMENT LIST

- **ABB** UZD, UZF
- **ALLIS-CHALMERS** TLF, TLH, TLH-21, TLS
- **FEDERAL PACIFIC** TC-25, TC-546
- **GE** LRT-38, LRT-48, LR-59, LR-65, LR-68, LRT-72, LRT-83, LRT-200
- **MCGRAW/PENN TRANSFORMER** 396B,
- 550 LOW RECOVERY, 550 HIGH RECOVERY, 550B LOW RECOVERY, 550B HIGH RECOVERY, 550C, 996, V2A, MA, MB
- **REINHAUSEN** RMT-1, RMV
- **WESTINGHOUSE** UR, URS, URT, UTH, UT, UTT, UTT-A, UTT-B, UTS, UTS-A, UVT
- OTHER LTC PARTS AND ASSEMBLIES MAY BE AVAILABLE THAT ARE NOT LISTED ABOVE.

OCB EQUIPMENT LIST

- **ALLIS-CHALMERS** BZO, SDO, OZ
- GE FK, FKA, FKD, FKR
- **SIEMENS/ALLIS-CHALMERS** 14.4G, 14.4GC, 345G, 345GS, 460GS, B-22-B, GM,
- GO-2, GO-2B, GO-3B, GO-48
- OTHER OCB PARTS AND ASSEMBLIES MAY BE AVAILABLE THAT ARE NOT LISTED ABOVE.



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