AZZ | ATKINSON - EPSI™

Your Single Source Partner

Industry Leader in Top Quality Design and Manufacture of Power Distribution Centers and Electrical Control Equipment

INDUSTRY LEADER

Atkinson Industries and Electrical Power Systems, Inc. pioneered the integrated power center concept and provide custom electrical control packages for a broad range of industries. These high quality companies are now brought together under AZZ incorporated as one combined operating unit ATKINSON-EPSI to form the market leader in Power Distribution Centers (PDC) and electrical control equipment.

YEARS OF EXPERIENCE

Atkinson Industries was founded in 1919 and Electrical Power Systems, Inc. (EPSI) was founded as part of Nelson Electric in 1937. We are now sharing the best practices of these two long term industry leaders to create innovative solutions for custom control equipment.

STRONG TECHNICAL SKILLS

ATKINSON-EPSI has innovative engineering personnel with years of experience specializing in Power Distribution Centers, switchgear and motor control and offers a full scope of electrical, mechanical and structural design capabilities.

We take a systems integrated approach to engineering the complete project and coordinate the entire assembly as an operating system to assure proper system functions.

Customized drawings are provided for the specific equipment required for the project. The drawings reflect the actual equipment required and are not shown as typical drawings with optional items noted or listed in the bill of material. The wiring diagrams show the integrated system and not various separate typical diagrams. The entire engineering package is provided in electronic format to greatly reduce the time required for drawing review, approval and as-built project records.

Fully Integrated Power Distribution Center
Four Way Split - 32 Feet Wide By 94 Feet Long

HIGHLY SKILLED PEOPLE

Separate fabrication, welding, paint, assembly and electrical wiring departments are staffed with highly experienced and trained technicians.

Installation and interconnect wiring of electrical and electronic equipment is performed by a workforce that averages over 15 years experience in this industry, assuring that it operates properly and meets code.

Full functional testing of each unit is completed before shipment. We also encourage in plant customer inspection, which includes in process review and final inspection. Full documentation is provided by a highly qualified Quality Assurance department. This testing assures that the equipment meets all the requirements and specifications of the project.

EQUIPPED TO MANUFACTURE SPECIALIZED EQUIPMENT

ATKINSON-EPSI has over 150,000 square feet of new and modern facilities designed and equipped for manufacturing Power Distribution Centers and electrical control equipment. The orderly flow of these specially designed facilities allow for timely progression of the project in a very cost efficient manner.

The high bay manufacturing areas are equipped with overhead cranes and oversized doors. This allows us to handle and ship large units in one section construction.

Each facility is equipped with on-site, oversized and environmentally controlled paint booths, which provides flexibility and the highest quality control. This enables us to offer an unlimited color matching capability to meet any facility color specifications. As standard, we offer Sherwin-Williams desert tan, gray or white polyurethane for the exterior and white acrylic enamel or epoxy for the interior.

ABILITY TO HANDLE LARGE AND COMPLEX PROJECTS

ATKINSON-EPSI is structured and equipped to handle large and specialized projects. This is not a sideline part of our business, it is our specialty. We are uniquely qualified to successfully design and manufacture all sizes of projects, from a basic unit to large multiple units that are fully integrated with custom control equipment.

Multiple Units and Various Projects Can Be Manufactured Simultaneously

THE ATKINSON-EPSI POWER DISTRIBUTION CENTER SINGLE SOURCE ADVANTAGE

We take out the hassle by providing ***a single source responsibility***. There is one contact person assigned to each project. You won't get the run around trying to find the person that is responsible for the drawings and then try to find out about the production schedule. All phases are coordinated by one highly qualified person.

The ATKINSON-EPSI integrated approach allows for ***one purchase order***. Not only does this provide ***one set of terms and conditions***, it also allows for ***one central point*** for all of the various equipment on the project. You do not have to coordinate between multiple suppliers and various plants.

ATKINSON-EPSI provides a ***single warranty point*** for the entire scope of the equipment on the project. We stand behind our products and provide the warranty contact with any component suppliers.

By utilizing ATKINSON-EPSI, ***less up front engineering*** is required. This reduces your design layout time and less project engineering coordination is required, since we provide that function. This also allows the order to proceed and doesn't require complete design before items can be bid, purchased and coordinated for field installation and integration.

ATKINSON-EPSI ***reduces construction cycle time***. We provide concurrent manufacturing that is not dependent on weather conditions. During the months of bad weather, we can complete the project and have it on site for the construction season.

The equipment is ***factory installed by specialists*** that are familiar with this type of equipment. The work is also completed in an environmentally controlled area with the required tools in each work area. This reduces the overall construction time required and lowers costs.

Since all equipment is factory installed, interconnected and tested before it arrives on site, ***less field support for start-up is required***.

Depending on user preference, we are able to provide ***multiple brands*** and ***multiple types of equipment*** within the same Power Distribution Center. We utilize major brand components within the ATKINSON-EPSI manufactured equipment. When required, we can also provide complete assemblies manufactured by these control manufacturers.

Full functional testing of the Power Distribution Center and equipment is completed before shipment, saving critical time in the field. Any late changes that are required will be made in factory conditions and the drawings will be updated to reflect those items. The PDC, switchgear, motor control and different voltages of equipment can be ***tested in a single location***, which saves time and money. During witness testing, you can also load relay programming and work out any issues before it arrives on the site.

You are guaranteed that ATKINSON-EPSI products are of the highest quality and are built to ***meet or exceed the standards*** of ANSI, NEMA, NEC, UBC and applicable building codes. ATKINSON-EPSI is certified to ***ISO 9001:2000*** to assure that our products are consistently manufactured to these high quality standards.

Equipment Installed, Interconnected and Tested in Controlled Factory Conditions by Trained Technicians

Fully Integrated Power Distribution Center for Classified Area Application

BROADEST RANGE OF PDCs AVAILABLE IN THE MARKET

Three Levels of Integration

We can provide a basic Power Distribution Center (PDC) for field installation of equipment. This allows flexibility when various types of equipment are not finalized and the construction schedule requires the PDC to be installed on site.

ATKINSON-EPSI is able to provide a PDC, install and wire customer supplied equipment and test the complete unit. We have separate identified storage areas that are used to stage customer furnished equipment.

As a manufacturer of electrical control equipment, we can provide a fully integrated PDC and design, build and system coordinate ATKINSON-EPSI provided equipment, complete with engineering, installation, wiring and testing.

Four Types of Standard Models

Power Centers are heavy duty designed construction specifically for large floor loads such as switchgear, motor controls, drives, transformers, UPS and battery systems.

Control Centers are used for control panels, motor control centers, relay panels, DCS panels and various controls. The units are designed to match the load requirements.

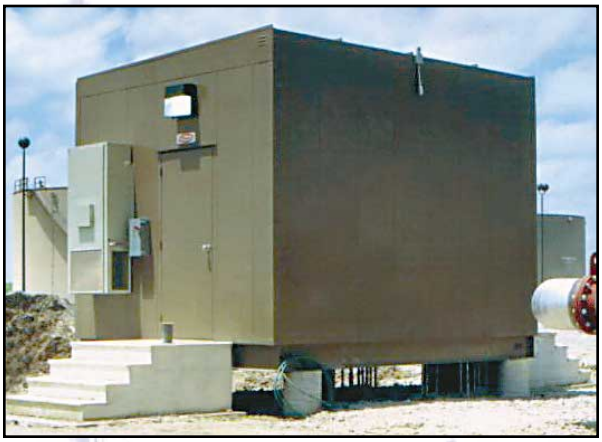
Instrument Centers are designed for emission monitoring, pollution control and other electronic control systems.

Units without structural floors can be provided for skid or pad mounted applications.

Flexibility of Structure Types

ATKINSON-EPSI offers two types of enclosure construction. We provide a 3 inch square tubular framing system with formed panels that fasten together and we offer a design with interlocking panels that provide continuous structural integrity for high strength.

Both types are available with 16 gauge galvanneal panels as standard and also available in 14 or 12 gauge. Additionally, we can provide stainless steel, aluminum or welded steel plate for the exterior walls.



Single Wide Control Center With Motor Control Equipment

UL CLASSIFIED

ATKINSON-EPSI Power Distribution Centers can be UL Classified to the requirements of the NEC. Per customer request, each PDC can be provided with the UL label.

UNLIMITED DESIGN OPTIONS

As a custom manufacturer, we offer a virtually unlimited number of optional items and design features.

- Pressurized HVAC systems
- Gas detection and monitoring
- Filtered ventilation
- Battery and UPS systems
- Annunciators
- Fire suppression systems
- Work area and drawing table
- Bathrooms
- Special lighting
- Emergency shower and eyewash
- Computer floors
- Bulkhead entries
- Stairways and walkways
- Removable floor access plates
- Electrical grade rubber insulating floor mat
- Special size doors and windows
- Door canopies
- Fire rated walls
- Higher insulation values
- Vestibules
- Custom cable entry boxes
- Stainless steel, aluminum or welded steel plate exterior walls
- Various facades - brick, rock aggregate, siding and more

Medium Voltage Switchgear with Protective Relaying Close Coupled to Medium Voltage Motor Control with Motor Protective Relays

DISTRIBUTION SWITCHGEAR AND MOTOR CONTROL EQUIPMENT

ATKINSON-EPSI specializes in low and medium voltage switchgear, low and medium voltage motor control and control equipment that requires custom design and manufacturing due to the requirements of the application.

The various equipment is manufactured in the same facility, avoiding the problem of coordinating different types of controls and different voltages.

This centralized engineering and manufacturing allows for a systems coordinated design that is integrated for different equipment along with the appropriate transition sections with bus to match the various types and brands of equipment.

We utilize Cutler-Hammer, GE, ABB and other major brands of circuit breakers and contactors, and a wide range of relaying, metering and components.

WIDE RANGE OF ELECTRICAL CONTROL PRODUCTS

As a top quality supplier of specialty electrical equipment, ATKINSON-EPSI offers a wide range of equipment with the flexibility to offer multiple brands of components. We offer equipment for NEMA 1, 3R and 12 applications.

- Switchgear
  600 Volt through 38 KV
- Motor Control
  600 Volt through 7.2 KV
- Load Interrupter Switches
  2.4 KV through 15 KV
- Non-segregated Bus Duct
  600 Volt through 15 KV ranges
- Marshalling and Relay Panels

Main-Tie-Main Switchgear With Solid State Protective Relays

Low Voltage Motor Control Centers In Unlimited Arrangements and Flexibility

Medium Voltage Motor Control With Motor Protective Relays Per Customer Requirements

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