



## PRODUCT/CAPABILITY OVERVIEW GUIDE

# Electrical + Instrument Enclosures:

- Fiberglass Reinforced Polyester
- Polycarbonate



Heartland™



Commander™



BantamBox™



Viking™



DuraShield™



Endurance™



Freedom™



Centurion™



MachoBox™



Triton™

# AttaBox Industrial Enclosures™ is both the oldest and the newest enclosure manufacturer.

Originally formed in 2007, AttaBox™ was the newest polycarbonate enclosure manufacturer in the United States. In 2016, AttaBox™ was acquired by Robroy Enclosures™ and was transformed into a full line of non-metallic enclosures with multiple product offerings.

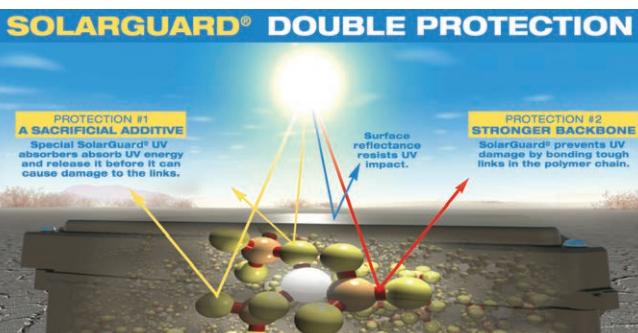
Founded in the 1940's, Robroy Enclosures™ has a rich seventy plus year history of manufacturing high quality environmentally sealed enclosures, including pioneering the first fiberglass reinforced polyester enclosure. AttaBox Industrial Enclosures™, along with Stahlin Enclosures™, are brands of Robroy Enclosures™, headquartered in Belding, MI USA. Robroy Enclosures™ is a subsidiary of Robroy Industries®. Robroy Industries® has served the electrical products industry since 1905.

## Robroy Enclosures™ are the most specified Non-Metallic Electrical + Instrumentation Enclosures in the world. **Why?**

- Because we are the pioneer of fiberglass enclosures
- Because we offer the largest selection of non-metallic enclosures in the market
- Because of unsurpassed, proven product performance & quality
- Because of our competitive pricing
- Because we offer more than 70 years of engineering & manufacturing experience
- Because we formulate and blend our own fiberglass composite including patented **SolarGuard®** for unequalled UV resistance
- Because we integrate CNC and other technologies to optimize bonding, gasketing, customizing functions, and final assembly processes
- Because we maintain a balance between appealing aesthetics and stringent physical property performance standards including NEMA 4X, 6P and IEC 60529 IP66, IP68 integrity

- Because we have hands-on control of our integrated, inhouse manufacturing process from first step to last touch
- Because Robroy Enclosures™ Provides UL94-5V Flammability Assurance. UL94-5V is a flammability rating that not all current enclosure products have attained, especially in tandem with NEMA 6 or 6P type ratings established under UL-50e, Enclosures for Electrical Equipment.
- Because Robroy Enclosures also provides specialty ratings. Such as:
  - UL1741 for use in solar applications**
  - UL2043 For use in plenum and HVAC Building Automation Applications**
  - Cold weather testing down to -60°C**
  - IEC 62262 IK10 impact rating tested to 20 Jewels**

# SOLARGUARD®



A non-halogenated patented material in our U.S.A. made fiberglass products, that beats the effects of outdoor exposure plus provides chemical and flame resistance.

**SolarGuard®**, in extensive comparison testing, outperformed other available SMC formulations by as much as 60% in its ability to retain gloss and color after exposure to concentrated UV light.

SolarGuard's® patented double protection formula was developed in Robroy Enclosures'™ lab. Due to its chemical composition and other additives, SolarGuard® is able to reduce the effects of UV degradation such as surface roughening and fiber blooming.

SolarGuard® features proprietary double protection formulation technology that significantly enhances the molecular bond strength and crosslinking that occurs during the curing process in thermo-setting polyester sheet molding compounds (SMC). Our SolarGuard® system fights polymer degradation by making it much more difficult for UV light to attack molecular bonds of both primary chains and crosslinks.

A special UV Absorber is added to the SolarGuard® formulation which acts to absorb UV energy, then to release it without damaging the polymer chain.

As the standard SMC formulation for our U.S.A made fiberglass electrical products, SolarGuard® provides an unsurpassed level of UV resistance, fire retardancy, chemical resistance and safe, durable performance... all without adding cost to our world class electrical enclosures.

## ModRight™ Services

AttaBox Industrial Enclosures™ prides itself in its willingness and ability to meet the enclosure modification needs of customers. The combination of technologically advanced equipment and a sound procedure for handling the most detailed modifications allows AttaBox Industrial Enclosures™ to process modifications on time, and to the highest quality standards in the industry.

**Modifications can be mixed and matched in an endless number of combinations.**

**They can take the form of:**

- Custom molded colors
- Silk screening
- EMI/RFI shielding
- Custom window sizes
- Custom cutouts/holes
- Custom size enclosures
- Other special requests

A variety of off-the-shelf products are available to solve common industry related problems. AttaBox's™ ModRight Program is designed to support you in very uncommon or complex applications. When you have a unique requirement, think AttaBox™ ModRight!



## AttaBox™ BOOTCAMP

A unique, hands-on, nationally recognized, one and a half day educational experience designed to give participants an enjoyable but instructional opportunity to learn about:

- AttaBox product offerings
- The history of enclosure applications
- Enclosure manufacturing processes
- Enclosure materials including comparative features and benefits
- Performance characteristics and properties of enclosure materials and relevance to applications
- Codes and regulations specific to enclosure applications



AttaBox™ BOOTCAMP is highly interactive and focuses on real-life applications, learning-by-doing, and direct one-on-one time with professionals who are experts in enclosures and materials.



Robroy Enclosures™ compression molding facility in Belding, Michigan.

## Heartland™ Series

### Proven Protection From Reliable Material Performance In Aggressive Environments

The Heartland™ Series offers high performance, polycarbonate enclosures applicable for heavy industrial conditions, but with a refined style suitable for commercial, industrial and OEM design applications.

The polycarbonate resin in the Heartland™ Series attained the best available "F1" rating, having passed critical tests for UV exposure and water immersion.

Heartland™ Series enclosures are rain-tight and watertight rated for use in both interior and exterior applications. Material ratings as well as product ratings assure the user that polycarbonate is designed to perform, without adverse affects, in cold weather applications.

Of significant protective value, corrosion-resistant polycarbonate can be effectively used across a wide range of aggressive environments.



- Polycarbonate
- Latches and hinges do not penetrate enclosures
- Easy to remove lid
- Integrated padlock hasp
- Flush-fit side mount swing panel and DIN rail system
- Multi-directional mounting feet
- Opaque or clear cover options
- Size range: 6" x 6" to 24" x 24"
- IEC 60529 Ratings: IP66, IP68
- NEMA Ratings (UL508A, UL50 & UL50e): 1, 3R, 4, 4X, 6P, 12
- cULus, CE, IEC, REACH, RoHS

## Commander™ Series

### Proven Protection From A Complete Environmental Seal

Commander™ Series offers a full range of sizes in fiberglass-reinforced polyester, and polycarbonate enclosures, with blank covers, and a choice of push button openings for 22mm and 30mm hardware. They feature a continuous polyurethane gasket that provides the critically reliable, long-term protection of a complete environmental seal.

Commander™ Series enclosures are ideal for compact or portable control or simply as a small junction box. They are available with a flush cover for unobstructed enclosure sides, which include soft, rounded edges, and virtually no pocket areas to trap debris. Larger sizes have an overhang cover design with molded-in panel mount inserts and all sizes include a lift over cover with captive screws.



- Fiberglass reinforced polyester and polycarbonate
- In-line pushbutton size range: 3" x 3" to 17" x 3"
- Multi-hole pushbutton size range: 7" x 6" to 10" x 8"
- Plenum Space Rating (UL 2043) – fiberglass only
- IEC 60529 Ratings: IP66, IP67, IP68
- NEMA Ratings (UL508A, UL50 & UL50e): 1, 3R, 4, 4X, 6P, 12
- cULus, CSA, CE, IEC, REACH, RoHS

## BantamBox™ Series

### Proven Protection When "Small Is A Big Advantage!"

BantamBox™ is a polycarbonate enclosure series in either opaque screw cover or clear screw cover versions.

The flush sides of the enclosure make it a sought-after OEM design product. Raised bosses accommodate back panel mounting and are successfully used for remote sensor mounting and small electronic controls in any environment.

These modular enclosures offer a broad range and are ideal as project boxes in both their opaque and clear forms.



## Viking™ Series

### Proven Protection Featuring Mounting Versatility And An Environmentally-Friendly Formula

The Viking™ Series is a fiberglass-reinforced polyester enclosure family with opaque or clear polycarbonate covers. Multiple sizes are available to meet a wide range of applications with the clear cover option being particularly suitable for mounting surveillance and security systems.

These enclosures feature a watertight rating, high impact resistance and a broad temperature range. Originally designed for low-voltage switchgear and control panels, the versatility of Viking™ Series is enhanced for mounting outdoor electrical and electronic control by a double insulated body that can be mounted directly to the wall or rail with no external feet or flange. The mounting bolts are completely isolated from the interior of the enclosure, maintaining complete environmental integrity inside with maximum electrical safety.

Of significant environmental importance, Viking™ Series enclosures are completely free of toxic components and heavy metals, complying with industry directives and RoHS policies.



- Mixed material
- Fiberglass reinforced polyester box
- Opaque or clear polycarbonate cover
- Size range: 10" x 7" to 28" x 21"
- IEC 60529 Ratings: IP66
- NEMA Ratings (UL508A, UL50 & UL50e): 1, 4, 4X, 12
- cULus, CE, IEC, REACH, RoHS

## DuraShield™ Series

### Proven Protection Because Of Simplicity In An Extremely Rugged Design

DuraShield™ Series enclosures are designed for rugged, durable performance in indoor and outdoor environments, such as mining, oil, gas, wastewater treatment, and petro-chem.

This fiberglass-reinforced polyester product was developed with a stylistic low profile design, and shallow depth. A simplified mounting system accommodates direct-to-wall mounting, leaving unobstructed top, bottom and sides for ease of installation.

Because of their flush cover design, DuraShield™ Series enclosures are highly valued in high-end electronic applications such as wireless communications and operator interfaces. A poured-in-place polyurethane gasket ensures a rain-tight, water-tight and submersible rating.



- Fiberglass reinforced polyester
- DIN rail mounting capabilities
- Size range: 3" x 3" to 24" x 16"
- IEC 60529 Ratings: IP66, IP67, IP68
- NEMA Ratings (UL508A, UL50 & UL50e): 1, 3, 3S, 4, 4X, 6P, 12
- UL, CSA, CE, IEC, REACH, RoHS

## Endurance™ Series

### Proven Protection From A "Next Generation" Of Design Innovation

Endurance™ Series enclosures represent a next generation in enclosure evolution: a double insulated body that can be mounted directly to the wall or rail with no external feet or flange. In this design, mounting bolts are completely isolated from the interior of the enclosure, maintaining complete environmental integrity inside with maximum electrical safety. These fiberglass-reinforced polyester enclosures feature a flush, removable, hinged door with 180° opening. The enclosures are rated watertight, self-extinguishing, with a broad temperature range.

Raised bosses internally provide for an extensive range of panel mounting options or DIN rail. They are easy to machine as well as customize to the user's demanding specification. Endurance™ Series enclosures were designed with an end user hinge pin system that makes replacing doors very easy. This provides full access to the interior of the enclosure in addition to cutting, drilling or machining custom facings on the door itself.



- Fiberglass reinforced polyester
- Polycarbonate hinge and polyamide quarter turn latch
- Size range: 12" x 10" to 30" x 24"
- IEC 60529 Ratings: IP66
- NEMA Ratings (UL508A, UL50 & UL50e): 1, 4, 4X, 12
- cULus, CE, IEC, REACH, RoHS

## Freedom™ Series

### Proven Protection Made Possible By The Freedom To Design For Your Individual Application Needs

Freedom™ (FR) Series enclosures are developed for maximum design flexibility and pleasing aesthetics. These attractive yet highly durable fiberglass-reinforced polyester enclosures are ideal for diverse applications including: high-end electronics, OEM housings and conspicuous industrial applications. They excel in corrosive environments where a full seal against the outside environment is critical.

A unique benefit of the Freedom™ Series is the internal panel management system empowering the end user to select and use only the features required for their specific application --- and to use every cubic inch of valuable internal enclosure space!



- Fiberglass reinforced polyester
- Opaque cover or flush bonded window
- Super abrasion-resistant acrylic window
- Field interchangeable cover and hardware
- “Freedom” panel management system
- Size range: 6" x 6" to 20" x 16"
- IEC 60529 Ratings: IP66
- NEMA Ratings (UL508A, UL50 & UL50e): 1, 3R, 4, 4X, 6P, 12
- UL, CSA, CE, IEC, REACH, RoHS

## Centurion™ Series

### Proven Protection That Balances Aesthetics With Physical Performance

Centurion™ Series fiberglass-reinforced polyester enclosures have been designed for general electrical and electronic applications, as well as industrial and OEM applications requiring protection from environmental forces. With their contemporary aesthetics, they offer a unique feature provided by a hidden hinge design and flush fitting cover, making Centurion™ Series enclosures ideal for applications such as control stations and operator interface units.

Of equal importance, Centurion™ Series enclosures are truly tough and durable in the most demanding uses. Both chemical resistance and watertight capabilities make them ideal across a broad spectrum of environmental installations.



- Fiberglass reinforced polyester
- Opaque cover or flush bonded window
- Super abrasion-resistant acrylic window
- Hidden hinge design
- Size range: 7" x 7" to 15" x 13"
- NEMA Ratings (UL508A, UL50 & UL50e): 1, 3, 3S, 4X, 12
- UL, CSA, CE, REACH, RoHS

## MachoBox™ Series

### Proven Protection From Designed-In Strength

MachoBox™ Series enclosures are expanded-size junction boxes made of fiberglass-reinforced polyester, featuring integral mounting flanges and designed to be tough!

MachoBox™ enclosures are ideal for rugged outdoor environments but also very suitable for indoor mountings where chemical wash-down, dust, and aggressive atmospheres are natural threats to all enclosures.

A standard overhang cover design is available in a hinged with padlock configuration. All sizes are 20" or greater in length and width. Threaded brass inserts for fixed rear panel mounting are standard as is a continuously poured polyurethane gasket to ensure a full, reliable environmental seal.



- Fiberglass reinforced polyester
- Full length stainless steel hinge
- Integrally molded mounting flange
- Size range: 20" x 20" to 24" x 24"
- IEC 60529 Ratings: IP66
- NEMA Ratings (UL508A, UL50 & UL50e): 1, 3, 3R, 4, 4X, 12, 13
- cULus, CE, IEC, REACH, RoHS

## Triton™ Series

### Proven Protection When "Big is Better!"

Triton™ Series enclosures are used where heavy industrial equipment needs protection. These fiberglass-reinforced polyester enclosures are ideal for the mounting of high voltage electrical systems where wiring needs sufficient bend radius to enter the cabinet. The Triton™ series is rated for applications involving diverse environmental conditions involving water, chemical wash-down, wind-blown dust, rain, sleet and external ice formation. An aggressive sealing system is used to meet these rigorous demands. Triton's™ stainless steel hinged and latched cover is a natural choice for process control where moisture or chemical environments require unique protection. Integral mounting feet enable easy installation.

In addition to wall mounted control enclosures, the Triton™ Series offers large and freestanding enclosures. These are dimensionally large enclosures (48" x 36" to 90" x 72"). The Triton™ Series has been designed for use in larger industrial control systems and machine tool control panels. They provide a rugged cabinet for use in both indoor and outdoor applications and across a range of difficult environments. These larger size wall mount or freestanding enclosures are designed for the maximum available space for electrical, hydraulic, or mechanical control circuits.



- Fiberglass reinforced polyester
- Opaque cover or flush bonded window
- Super abrasion-resistant acrylic window
- Wall mount or free standing configurations
- Size range: 24" x 20" to 90" x 72"
- IEC 60529 Ratings: IP66
- NEMA Ratings (UL508A, UL50 & UL50e): 1, 3, 3R, 4X, 12
- UL, CSA, CE, IEC, REACH, RoHS

## We Offer a Variety of Products to Complement Our Enclosures

### Back Panels

We offer a wide range of mounting panel options for most product lines. Designs include standard back panels, dead front panels, swing panels, cover panels, and various adjustable height dead front panels.

**• Available in carbon steel, aluminum, and select panels in ABS**



### Accessories

We offer a wide variety of accessories to complement our enclosure offering. From vents to conduit fittings, our accessories are designed to maintain the original enclosure ratings once installed.

- Breather Vents – UL/CSA 4X
- Drain Vents – UL/CSA 4X
- Hole Plugs – PluggIt® – up to UL/CSA 6P
- Lighting
- Various Latching Alternatives
- Carrying Handles
- Print Pockets
- Vapor Capsules
- Cord Grips and Cable Glands
- Thermal Accessories and Fans



### Custom Products

You may utilize our SMC manufacturing, compression/injection molding, and other processes to design and develop products unique to the end user or application. Such examples are custom cover designs with molded in features such as logo's, bosses and ribs that define a profile or feature.

- Turnkey design and tool build service
- Custom molding, compression, injection



**AttaBox** Industrial Enclosures™  
500 Maple Street | Belding, MI 48809 | P 616.794.0700  
[AttaBox.com](http://AttaBox.com)