







Purpose-built. From the inside out.

When it comes to protecting your high-value cargo, equipment, or devices, GEMSTAR looks at technical cases differently. From the inside out. Starting with your valuable assets, our custom-designed hard cases are engineered and built to meet the protection, containment, and transportation requirements specific to your application requirements. GEMSTAR is the only manufacturer to provide three case platforms – SENTINEL®, STRONGHOLD®, and VersaPRO®. Our decades of custom case design and manufacturing experience, and nearly limitless custom options, makes us the best choice for your custom hard case solution.



Airtight, waterproof protection that's durable, lightweight, and virtually indestructible.

SENTINEL injection-molded cases are engineered to deliver the ultimate in protection for your most valuable assets—for sleek, lightweight protection that can stand up to any demand, choose SENTINEL.



STRONGHOLD

Extreme durability, interlocking stackability, and airtight protection for heavyweight cargo.

When you need to ensure the protection of larger and heavier equipment, STRONGHOLD delivers. Featuring double-walls, thick corners and rotationally molded polyethylene, you can rely on STRONGHOLD to be the most rugged case available.



VersaPRO.

Thousands of sizes, choices, and options for reliable protection.

The number of custom combinations available to you with VersaPRO cases is virtually limitless. From interior layout to case size, from company branding to color, this is the solution for those with distinct needs to protect, contain, and transport equipment.

The GEMSTAR difference.

Making a case for the best cases on the market.

GEMSTAR cases are built to your purpose. We've been doing it that way for over 50 years. We work closely with you to make sure your case performs exactly the way you need it to. We offer the world's broadest offering of case platforms with virtually unlimited configurations and options. And we are committed to offering the fastest turnaround time in the industry. These differences make GEMSTAR the best choice for custom hard cases.



Because of our commitment to quality, use of premium materials and adherence to best practices, we stand behind all of our case products with a lifetime guarantee.

See page 11 for details, or go to GemstarCases.com

GemstarCases.com

The rugged, custom case designed to rise to your challenge.

SENTINEL cases
have seen action
in all conditions—
from front line
combat to
backwoods
research

steel pins

 Injection molded engineered copolymer

construction

Pound for pound, this is one tough case.

Constructed with a proprietary copolymer resin, injection-molded SENTINEL cases are designed to be incredibly rugged. SENTINEL also provides the best strength-to-weight ratio in the industry. This unique combination gives you optimal performance.

Designed to combat any environment.

Waterproof, airtight and dust-proof. The SENTINEL meets or exceeds demanding high standards for durability, including IP67 submersion, MIL-810 and ATA300. Each case comes standard with an automatic pressure relief valve.

SENTINEL® **Standard Features** EPDM gasket for Lightweight – best airtight, waterproof strength to weight ratio containment · Airtight, waterproof Patented easy-to-use, and dustproof finger-friendly latches Custom foam All hardware mounts Molded-in Automatic to case with stainless padlock brackets pressure relief valve

Available in six standard colors

Custom colors available. *Call for details.*









800.533.3631

High quality. Guaranteed. We guarantee SENTINEL cases for life because we ensure your case is built right the first time. If your case breaks or is defective, we will provide replacement parts, repair the case or replace the case at no cost to you. The result is that SENTINEL cases perform to meet the highest standards - yours. Visit GemstarCases.com/ Warranty for details. GUARANTEED FOR LIFE Removable lid (optional) Ergonomic handle



Custom designed. Purpose-built

At GEMSTAR, customization means that the SENTINEL case we build for you is engineered from the inside out to fit your purpose. We assure your custom case protects, organizes, and safely transports your valuable assets. And we provide custom design services to ensure your SENTINEL case meets all your needs.

The process begins with your GEMSTAR Technical Partner who will work closely with you to collect information. We then calculate to determine the optimal case size and the amount and type of cushioning required.

What goes into the case?

Description, dimensions, weight and fragility of the assets.

How is the case being used?

How the case is handled, transported, and the environmental conditions it will encounter.

What level of protection and containment is required?

Fragility (or "G" Factor) helps determine the protection needed. GEMSTAR builds custom cases to protect a full range of assets, from extremely fragile test instruments to rugged machinery.

15-25 G

EXTREMELY FRAGILE

- Special military equipment
- Precision aligned test instruments

25-40 G

VERY DELICATE

- Mechanical instruments and electronic equipment
- Shock mounted

40-60 G

- DELICATE
- Aircraft accessoriesComputer equipment

60-85 G

MODERATELY DELICATE

- Video equipment
- Video monitor

85-115 G

MODERATELY RUGGED

• Equipment with minimal electronic controls

115+ G

RUGGED

Machinery

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Custom Foams

GEMSTAR offers a wide variety of foam options. We determine the foam load your asset requires, which is the amount and density of the foam required to protect it.

Foam types:

- PU (Polyurethane)
- PE (Polyethylene)
- EPE (Expanded Polyethylene)
- EPP (Expanded Polyproplyne)
- XLPE (Cross-linked)
- Anti-static



Custom Interiors

There are more options than just foam to protect and organize your equipment inside a case. We can help determine which options are best suited to your application and type of items.

- Shock mounts
- Hook-and-loop straps
- Trays and thermoformed inserts
- Mounting flanges and brackets
- Compartment labeling
- Hinged compartments



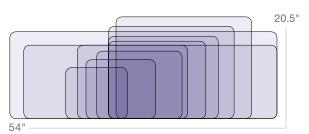


GemstarCases.com

One solution.

A range of options.





GEMSTAR stocks all standard SENTINEL models in black for quick shipping. You can customize your standard SENTINEL case with labeling, foam inserts, and a wide variety of interior and exterior options, which means you get the case you want, just the way you want it. Standard and custom colors available. And if we don't stock the size, color or configuration that meets your needs, we can custom build your case from scratch.

Smart engineering.

SENTINEL cases are lightweight yet extremely durable. Shape, form, and proprietary copolymer resin add to the integral strength of the SENTINEL case. Smartly designed features such as exterior hardware guards allow your case to withstand any type of abuse and hardware to perform flawlessly for the life of the case.

Precise fitting tongue-and-groove lid enclosures combine with our superior EPDM gasket system, making SENTINEL completely airtight. This ability to securely keep out dust and water adds another layer of protection.

SENTINEL cases cover a wide variety of sizes and are in stock for quick shipment.













Custom Exteriors

The exterior of your SENTINEL case can be equipped with a variety of accessories or graphics.

- Stock and custom color matching
- Retractable extension handles and wheels on select models
- Patented finger-friendly latches
- Automatic pressure relief valve
- Molded-in padlock brackets
- Recessed hardware
- Adhesive logo labels
- Label plates
- Case wall cutouts
- Straps
- Removable lid

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a high brand image. The product solution is engineered to be compact and lightweight, but durable as possible for reliable performance in remote operation and transport.

- Royal blue molded case exterior
- Silver latch accents
- Custom silver thermoformed interior with hinged keyboard tray and storage tub and additional machining to allow heat dissipation
- Machining to case exterior to accept exterior electronics ports
- Custom metal logo riveted to the case lid
- Custom locking stay

Tested. Perfected.

Proven tough.

We put SENTINEL cases through rigorous tests meant to emulate real-world conditions. We learn volumes from each test we conduct. Our cases are engineered to provide the ultimate protection.

- Drop and Impact
- Vibration
- Immersion
- Handle Pull
- Salt Fog Chamber
- UV Stability
- Wheel Endurance

Standards exceeded.

SENTINEL will meet or exceed the following standards:

IP67

DEF Stan 81-41 / STANAG 4280

NATO Standard

MIL-STD-2073-10

MIL-STD-C4150 J

ATA 300

MIL-STD-810F

- High/low temperatures
- Drop
- Basic transportation vibration
- Loose cargo
- Water submersion
- Wind blown rain
- Fungus growth
- Low pressure
- Wind blown sand and dust





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The GEMSTAR difference.

Dedicated to Superior Product and Service.

GEMSTAR is proud of the level of service, quality, and value we provide to our customers. Our ability to meet their wide ranging needs lies with the dedication, loyalty, and experience of our employees, many of whom have been with us since our inception.

Every case we manufacture is designed and built in Cannon Falls, Minnesota, USA, and each one represents the caliber of our entire organization. Our commitment to quality encompasses design, production and the way we conduct business, and is a testament to our Midwestern values and work ethic. Each member of our talented GEMSTAR staff is vital to the excellence we strive to deliver.

We put this dedication into action with the world's widest selection of cases, design engineering and support, unlimited customization options, and the fastest turnaround time in the industry. Please contact us with any questions and to get your custom case project started.

Toll Free **800-533-3631** Phone **507-263-4770**

Fax 507-263-3129 sales@gemstarmfg.com

Gemstar Manufacturing • 1515 North 5th Street • Cannon Falls, MN 55009

We stand behind our cases. For life.



GEMSTAR is committed to the highest quality and backs that commitment with a lifetime guarantee. We are able to offer this industry-leading protection because we work with premium materials, use the best processes for your application, and help you from design all the way through production and rollout to assure the best overall solution. If your case breaks or is defective, GEMSTAR Manufacturing will provide replacement parts or repair or replace the case. This warranty extends only to the case itself, covering any defects in materials or workmanship as described in our warranty statement. For additional information, please visit GemstarCases.com



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SENTINEL. VersaPRO. STRONGHOLD.

