Manufacturers of Material Handling and Storage Equipment

Custom products.
Versatile design.
Skilled construction.

Performance by design.

Custom Fabrication

Custom products.
Versatile design.
Skilled construction.
Custom Designed, Custom Fabrication

Many of the world’s most prestigious manufacturing, construction, and distributing companies rely on EGA Products for custom designed, custom fabricated people-access, materials-handling, and equipment-storage systems—for commercial, industrial, and military applications.

EGA designers and engineers are expert at analyzing your operational systems and processes relative to the parts you need to handle, whether for transportation, assembly, or both.

Unlike smaller firms, EGA advanced manufacturing capabilities ensure that your custom fabricated systems are built to the strictest tolerances in order to accommodate robotics and other technological, ergonomic, and environmental challenges—whether you require one or one thousand units.

The results are people-access, materials-handling, and equipment-storage systems that are fully integrated into your manufacturing, construction, or shipping processes and include:

- Increased operational efficiencies—reducing or eliminating the need for material handlers.
- Custom shapes for optimal line-side placement—enhancing time/motion efficiencies.
- Precision engineering—accommodating robotics and other technological innovations.
- Consistent quality—each built to meet or exceed required tolerances.
- Custom dunnage—protecting parts while eliminating the need for bubble wrap, tie downs, etc.
- Ergonomic designs—increasing worker safety and efficiency.
- Eco-friendliness—no packing materials means no waste to recycle or dispose.
- Code compliant—our engineers are up-to-date on all OSHA and ANSI requirements and make it their business to know the local codes in your geographical area.
ASRS ARCHIVE MODULES

EGA Products designed and manufactured these ASRS Archive Modules to interface with the automatic storage & retrieval system (ASRS) inside the library of one of America’s leading universities, doing so cooperatively with an internationally renowned manufacturer of logistics and materials handling solutions.

The module shelves must be precisely aligned to accommodate ASRS robotics reliably, a design element that is complicated by the requirement that the shelves be adjustable within precise parameters. This is why the manufacturer turned to EGA manufacturing expertise to build the modules with precise spacing to specified tolerances.

Besides library settings, these ASRS Archive Modules can be used in a wide range of ASRS environments where irregular objects must be accommodated, including but not limited to:

- Automotive
- Food
- Manufacturing
- Metalworking
- Shipping
- Military/government

These ASRS Archive Modules feature boltless construction. They are available with stainless steel construction or come in a variety of finishes, including:

- Painted enamel
- Powder coat
- Hot-dipped galvanized
- And more

Typical industrial applications:
Automotive, food, manufactured goods, metalworking, military/government, shipping

ASSEMBLY FLOOR WORK PLATFORMS

A First Tier Supplier to an internationally renowned manufacturer of industrial engines commissioned EGA to design and build a customized Assembly Floor Work Platform that could surround engines under assembly. The engines are over eight feet tall and 12 feet long, thus requiring elevated access.

EGA engineers designed a platform that closely accommodates protrusions in the overall shape of the engine, thus maximizing worker access and proximity to it. The platform can also be easily moved from engine to engine without having to be dismantled. Platforms are quickly and easily secured together to ensure continuity of platform sections. Heavy duty construction accommodates over 1000 pounds, making the platform stable for multiple workers. As well, the multi-sectional configuration with dual ladders allows for easy ingress, egress, and movement on the platform.

The custom EGA Assembly Floor Work Platform also features:

- Slip-resistant grip strut deck
- Tool trays
- Integral shelving and storage for parts

EGA Assembly Floor Work Platforms are available with stainless steel construction or offered in a variety of finishes, including:

- Painted enamel
- Powder coat
- Hot-dipped galvanized
- And more

Typical industries served:
Manufactured goods, metalworking
CUSTOM OPERATIONS PLATFORMS
EGA Products was commissioned by a world renowned manufacturer of tantalum and electrolytic capacitors. The challenge was to develop an exceptionally durable, elevated Operations Platform for their chemical wash station that could withstand heavy production schedules and multiple personnel usage. The operations platform must also be ergonomically efficient while simultaneously maintaining OSHA, ANSI, and local standards for workplace safety.

Analyzing the time/motion and proprietary requirements surrounding the chemical wash operation, EGA engineers designed an elevated platform made of heavy gauge steel with welded construction. Guard railing is placed as necessary to protect workers, but careful design attention ensures that select areas adjacent to the machinery are left open and unencumbered for ease of operation.

Other features include:
• Slip-resistant grip-strut decking and stair treads
• Customized paint scheme to complement both the company’s internal and external branding

EGA Operations Platforms are available with stainless steel construction or offered in a variety of finishes, including:
• Painted enamel
• Powder coat
• Hot-dipped galvanized
• And more

Typical industrial applications:
Chemical, electronic, manufactured goods, metalworking

CUSTOM STORAGE LOCKERS
Designed and manufactured for U.S. armed forces, these Custom Storage Lockers meet special requirements for soldiers at major military base. Significantly larger than anything available “off the shelf” from conventional suppliers, they’re also specially ventilated with expanded metal grids and hinged louvered doors to accommodate damp or wet clothing, backpacks, and other military paraphernalia.

Special features of these EGA Custom Storage Lockers also include:
• Integral locking systems make them easily secured—because military gear includes personal property as well as guns and ammunition
• A unique framework system allows for attractive, continuous, and virtually seamless rows of lockers for the length of your designated space
• Two-tier example (pictured) accommodates two personnel
• Three-tier lockers can be custom designed to accommodate particular personnel requirements

EGA Custom Storage Lockers are also:
• Offered in a variety of finishes including painted enamel
• Available with stainless steel construction
• Available with hot-dipped galvanized steel to thwart rust in coastal or other damp environments

Typical industrial applications:
Construction, military/government
FLAT MEDIA TRAY CARTS
EGA advanced design expertise and manufacturing capabilities were tapped by a well-known national provider of material handling systems when they required a line of custom tray carts with 25 levels for storing and transporting flat media. That was because in addition to sizing and durability considerations, the tray cart shelving must be precisely aligned from unit-to-unit to accommodate ASRS robotics, a design element that is additionally complicated by the need for the 25 levels to be adjustable.

EGA engineers designed a Flat Media Tray Cart that can be used in a wide range of ASRS environments where flat media need to be accommodated. For example:

- Automotive
- Food
- Manufacturing
- Metalworking
- Shipping
- Military/government

These EGA Flat Media Tray Carts additionally feature:

- Boltless construction
- 5-inch casters for effortless mobility

EGA Flat Media Tray Carts are available with stainless steel construction or offered in a variety of finishes, including:

- Painted enamel
- Powder coat
- Hot-dipped galvanized
- And more

Typical industrial applications:
Automotive, food, manufactured goods, metalworking, military/government, shipping

GALVANIZED INDUSTRIAL STAIRWAYS & LANDINGS
A national distributor and installer of commercial and industrial storage equipment turned to EGA Products when they needed a Custom Stairway & Landing that would allow access to the upper level of their facility while meeting all applicable OSHA, ANSI, and local codes.

EGA engineers designed a custom galvanized industrial stairway featuring:

- All-welded construction for superior strength
- Hot-dipped galvanized finish for exceptional rust resistance
- Grip strut stairs and landing deck for slip resistance in wet conditions

EGA Custom Stairway & Landings are offered in a variety of painted finishes with your choice of treads and decking constructed of:

- Bar grating
- Floor plate
- Fiber glass

Typical industrial applications:
Automotive, chemical, construction, food, manufactured goods, metalworking, military/government, mining, shipping, steel, textiles, energy
INDEXING TOWER RACKS

Custom designed and custom fabricated for one of Germany’s premier luxury vehicle manufacturers and their Tier One suppliers, these custom manufactured **Indexing Tower Racks** cradle delicate stamped-metal parts and body panels so that they can be shipped densely, without marring their paint-ready finishes and with no need for bubble wrap, tie downs, etc.

Precision engineered and manufactured to the most exacting tolerances to accommodate robotic loading and other technological considerations, the spring-loaded pintle release mechanism, for example, is accurate to as little as 2mm on all three axes. The rack can be oriented in virtually any position to accommodate different manufacturing requirements, eliminating the need for replacement relative to product changes or modified assembly procedures.

**EGA Custom Fabricated Indexing Tower Racks** features also include:
- Precisely placed, sequentially numbered stenciling to accommodate production flow and other unique requirements
- Fork pockets
- Label holders
- Skid runners

**EGA Custom Fabricated Indexing Tower Racks** are available in a variety of finishes, including:
- Painted enamel
- Powder coat
- And more

**EGA Custom Fabricated Indexing Tower Racks** are available with choice of dunnage, including:
- Rubber
- Vinyl
- Polyurethane
- UHMW
- HDPE
- Stainless steel
- And others

**Typical industrial applications:**
Automotive, construction, manufactured goods, shipping

PORTABLE STORAGE MODULES

EGA Products designed and manufactured 14 versions of these **Portable Storage Modules** for one of America’s leading manufacturers of household cabinets and cabinetry components—over one thousand units in all. Each is precisely constructed to interface with the company’s existing fleet of Automated Guided Vehicles (AGV) as well as with its Automated Storage & Retrieval System (ASRS).

Working cooperatively with the company’s internal project team, EGA designers and manufacturing experts engineered a system of portable storage modules that accommodates the various sizes and configurations of cabinet components that travel through the plant daily, while at the same time reliably interfacing with the existing AGV and ASRS technologies.

**Among other custom features, these EGA Portable Storage Modules** have:
- Powder-coated wire dividers to protect cabinet finishes from mars and scratches
- Corrugated polycarbonate sides for lighter weight with superior durability
- Push handles for easy movement and positioning independent of the AGS and ASRS

**Typical industrial applications:**
Automotive, manufactured goods, military/government
COLLAPSIBLE BINS

Custom designed and manufactured for a nationally known engineering and technology company, Collapsible Bins provide for easy storage and improved return shipping density when not in use.

They are purpose designed to cradle delicate parts so that they can be shipped densely, without marring paint-ready finishes, and with no need for bubble wrap, tie downs, etc. Bins have dual half-dropdown gates and solid steel decks.

Additional features of EGA Collapsible Bins include:
- Precisely placed, sequentially numbered stenciling to accommodate production flow and other unique requirements
- Fork pockets
- Label holders
- Gates
- Doors
- Skid runners

EGA Collapsible Bins are available with stainless steel construction or offered in a variety of finishes, including:
- Painted enamel
- Powder coat
- Hot-dipped galvanized
- And more

EGA Collapsible Bins are also available with your choice of dunnage, including:
- Rubber
- Vinyl
- Polyurethane
- UHMW
- HDPE
- Stainless steel
- And others

Typical industrial applications:
Automotive manufacturers and First Tier suppliers

SHIPPING & RECEIVING PACKAGING BENCHES

EGA Products was commissioned by a world renowned manufacturer of agricultural and construction equipment to design and manufacture customized Shipping & Receiving Packaging Benches for handling small tractor parts. Along with ergonomic design and exceptional durability, these benches also need to integrate a computer keyboard and hard drive that are central to the company’s barcode inventory control system.

Analyzing the time/motion requirements surrounding the company’s shipping & receiving operations, EGA engineers designed a packaging bench with an exceptionally durable work surface, and ergonomically placed compartments for boxes and other packaging materials.

The design integrates an adjustable swing arm that optimally positions the computer keyboard relative to the height of the operator and also includes:
- Roll stock dispensers
- Organized storage areas
- Optimally sized compartment to accommodate the hard drive and keep out of harm’s way

EGA customized Shipping & Receiving Packaging Benches are available with stainless steel construction or offered in a variety of finishes, including:
- Painted enamel
- Powder coat
- Hot-dipped galvanized
- And more

Typical industrial applications:
Automotive, manufactured goods, shipping, military/government
RETURNABLE BUMPER RACKS
EGA advanced design and manufacturing capabilities were called upon by one of Germany’s premier luxury vehicle manufacturers to create these Returnable Bumper Racks. They’re used to transport various configurations of completed bumpers from the First Tier supplier to the sequencing center at the automaker’s assembly plant.

EGA engineers designed a low-profile rack that uses polyurethane dunnage bars, vinyl pads, fold-down support pins, and securing swing trays to cradle the front bumpers so that they can be shipped densely, without marring their delicate finishes. This eliminates the need for bubble wrap, tie downs, and other conventional dunnage that adds to production time and requires time-consuming recycling and disposal processes. Fold-down support pins additionally serve as locators; stack racks are precision manufactured to hairline tolerances in order to interface with the automaker’s advanced robotic systems.

EGA Returnable Bumper Racks additionally include:
- Precisely placed, sequentially numbered stenciling to accommodate production flow and other unique requirements
- Fork pockets
- Label holders
- Skid runners

EGA Returnable Bumper Racks are available with stainless steel construction or offered in a variety of finishes, including:
- Painted enamel
- Powder coat
- Hot-dipped galvanized
- And more

Typical industrial applications:
Automotive manufacturers and First Tier suppliers

RETURNABLE EQUIPMENT RACKS (COLLAPSING)
Custom designed and manufactured for Tier One suppliers to the automotive industry, these Collapsing Returnable Equipment Racks offer large capacities for storing and transporting components such as mufflers, catalytic converters, and suspension pieces but automatically fold down for economical return shipping when the last part is removed.

Absence of the last part instigates a controlled collapse of the rack, allowing for its fast and easy removal from the workspace and clearing the way for the next rack—enhancing your time/motion workflow efficiencies.

EGA Returnable Equipment Racks can accommodate multiple dunnage systems. Multiple dunnage systems can be incorporated into each rack that precisely fit the shapes, sizes, and proprietary requirements of your parts:
- Rubber
- Vinyl
- Polyurethane
- Polyurea
- UHMW
- HDPE
- Stainless steel
- And others

EGA Returnable Equipment Racks are offered in a variety of finishes, including:
- Painted enamel
- Powder coat
- And more

Typical industrial applications:
Automotive, manufactured goods, metalworking, military/government, plastics, shipping, steel, textiles, pulp/paper, energy.
RETURNABLE EQUIPMENT RACKS (NON-COLLAPSING)
Custom designed and manufactured for brand leaders in the international HVAC market, these Returnable Equipment Racks transport delicate fan blades from building to building or point-to-point within a manufacturing environment.

Each features a unique arm & hook system that can nest two rows of 20 proprietary blades for a total capacity of 40 units - without tie downs or any waste-producing packaging. The open design leaves parts easily assessable to assemblers.

EGA Returnable Equipment Racks are also available with stainless steel dunnage and are offered in a variety of finishes including:
- Painted enamel
- Powder coat
- And more

Typical industrial applications:
 Automotive, manufactured goods, military/government

CAROUSEL RACKS
Custom designed and custom manufactured for one of Germany’s premier luxury vehicle manufacturers and their Tier One suppliers, these Carousel Racks cradle delicate stamped-metal parts and body panels so that they can be shipped densely, without marring their paint-ready finishes and with no need for bubble wrap, tie downs, etc. Integral swing arms are especially designed for specific parts and keep them secure in transit.

Upon delivery, placed line-side, the carousel configuration allows one side to be loaded as the opposite side is emptied, either robotically or by material handlers. This eliminates the need to reposition racks as parts are expended. The smoothly turning carousel is easily rotated by a single person, and a one-step latching mechanism locks it in place.

EGA Custom Fabricated Carousel Racks Features Also Include:
- Precisely placed, sequentially numbered stenciling to accommodate production flow and other unique requirements
- Fork pockets
- Label holders
- Skid runners

EGA Custom Fabricated Carousel Racks Are Available In A Variety Of Finishes, Including:
- Painted enamel
- Powder coat
- And more

EGA Custom Fabricated Carousel Racks Are Available With Choice Of Dunnage:
- Rubber
- Vinyl
- Polyurethane
- Polyurea
- UHMW
- HDPE
- Stainless steel
- And others

Typical industrial applications:
 Automotive manufacturers and First Tier suppliers
PURPOSE-BUILT PLATFORM TRUCKS
EGA Products was commissioned to design and manufacture a **Purpose-Built Transport Truck** by one of the country’s largest suppliers of racks, trucks, and carts to business and industry. The end user is one of North America’s most famous retail chains. They wanted to reduce product damage to mattresses during warehouse handling.

Analyzing the warehouse operations surrounding the mattresses and working in cooperation with the retailer’s internal team, EGA engineers designed a transport truck with a larger deck and taller support sides. This configuration vertically accommodates mattresses rather than stacking them, causing less stress and potential damage to them as they’re loaded and unloaded from the platform truck.

Other custom features include:
- Solid steel deck and welded support sides—providing durability and accommodating larger capacities
- Integrated push handles and heavy-duty swivel casters—allowing for easier handling and greater mobility for heavier loads
- Corner bumpers—protecting carts from one another during warehouse operations
- Towing eyes and optional couplers—making them easily towable by warehouse tractors
- Easy breakdown for improved out-of-service storage

EGA Purpose-Built Transport Trucks are available with stainless steel construction or offered in a variety of finishes, including:
- Painted enamel
- Powder coat
- Hot-dipped galvanized
- And more

Typical industrial applications:
Automotive, food, manufactured goods, military/government, shipping

CUSTOM PURPOSE BUILT ROOF LADDER
A National roofing supply chain distributor approached EGA Products with the need for a roof ladder to access office building mechanical equipment. They were seeking a ladder uniform in design and application that would be affordable and functional as this ladder would be used on multiple buildings in various locations. EGA Products was able to meet these requirements and design – build a ladder that was cost effective with a quick turn-around time from order placement to ship date.

Features include
- All-welded steel construction
- Round tube construction utilizing only (2) tube diameters
- Simple, clean design
- Easily constructed to meet a variety of heights requirements
- Flared pass-thru at top of ladder for ease in entrance/egress of ladder

EGA custom designed vertical ladders are available in stainless steel construction or in a variety of finished including:
- Painted enamel
- Powder coat
- Hot-dipped galvanized
- And more
MAN-ABOARD ORDER PICKING MODULES
EGA Products designed and manufactured these Man-Aboard Order Picking Modules for the U.S. Department of Defense (DOD) for use at their warehouse locations, doing so in cooperation with one of America’s premier materials-handling equipment manufacturers.

Effectively a shopping cart with 3-dimensional access, these modules increase the efficiency of DOD staging and packaging operations by enabling man-aboard forklift operators to pick many more items per hour than they could with single-level conventional pallets.

Special features of the EGA Man-Aboard Order Picking Modules designed for the DOD include:
• Sides, tops, and lockable double doors constructed of expanded metal grid work to secure ordnance and other sensitive military materiel while leaving it easily visible to the operator
• Adjustable flat or inclined shelving levels allow flexibility and better item segregation
• Expanded metal grid work-provides necessary ventilation
• Heavy-duty swivel casters-make it easy to position the module and connect to the forklift
• Push handles-allow for easy movement on the ground
• Clamp blocks and attachments easily secure to module for unloading and other operations.

EGA Person-Aboard Order Picking Modules are available with stainless steel construction and in a variety of finishes, including:
• Painted enamel • Powder coat • Hot-dipped galvanized • And more

Typical industrial applications:
Automotive, manufactured goods, military/government, shipping

PORTABLE BIN CART MODULES
EGA Products designed and manufactured these Portable Bin Cart Modules to meet strict requirements for use in U.S. Government aircraft maintenance facilities. In addition to sizing and durability considerations, these portable bin cart modules must be precisely constructed to interface with existing fleets of Automatically Guided Vehicles (AGV) and for use with Automated Storage & Retrieval System (ASRS).

EGA Portable Bin Cart Modules features include:
• HDPE plastic bins-provide for easy loading and unloading of parts from two sides
• Corner bumpers-protect carts from one another during staging, transit, and other warehouse operations
• Heavy duty casters-allow for easy movement and positioning independent of the AGS and ASRS
• Ergonomically correct push handles-avoid operator fatigue and repetitive stress injuries

EGA Portable Bin Cart Modules are available with stainless steel construction or in a variety of finishes, including:
• Painted enamel • Powder coat • Hot-dipped galvanized • And more

Typical industries served:
Military/government
About Us

Whether your application requires custom or off-the-shelf components, EGA Products is your one-stop manufacturing source for people-access, materials-handling, and equipment-storage systems. Our advanced design and manufacturing processes include our square-tube technology, which enhances structural stability, resiliency, and strength. Our engineering and manufacturing teams will custom design equipment to suit your unique facility or process. Look to us for:

- Industrial Rolling Ladders
- Mobile Work Platforms
- Fixed Ladders
- Stationary Platforms
- Security
- Storage

Manufacturing facilities in Wisconsin and North Carolina

PERFORMANCE BY DESIGN