

# Corporate Profile and Technical Capabilities



## The ERE Group



**ERE Systems Inc.** has been overhauling, modifying, upgrading, and developing military vehicles and systems since 1998. Our strong focus on ingenuity, simplicity, durability, and overall performance is evident in our past projects.

### Vehicle systems we have worked on include:

- Deuce M35 A2, A3
- M 925, M935 Series of trucks
- Lynx Light Reconnaissance Vehicle
- Oshkosh M1120, M1075 (PLS)
- Unimog 406, U1300L
- M113 APC
- Chieftain Mk 11 Main Battle Tank
- AM General M998
- Bombardier Iltis
- Kenworth 8x8 XM 10
- MAN 8x8 XM 1074
- GMC M1009

#### **ERE Systems Inc.**

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[www.erelogistics.com](http://www.erelogistics.com)

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## ERE Designs

In addition to vehicles, we have also developed the **ERE S80T Tactical Scissor Bridge System**. Based on the Russian TMM-3 system it has been modified to be flatracked, modular, with an increased load factor from 60 to 80 Ton capacity. The bridge system also has a new remote control system and deployment method to provide for increased safety and ease of use.

## ERE Engineering

With the participation of **Tangent Design Engineering** in Calgary, ERE has added strong mechanical design and engineering expertise that spans a wide range of industrial applications. Tangent utilizes the latest 3D modeling, Finite Element Analysis and Computational Fluid Dynamics software to create computer-generated simulations and prototypes. Tangent's project experience includes pressure vessel evaluation, mechanical lift systems and oilfield processing systems. Tangent has offices close to downtown Calgary as well as a field office in Claresholm, Alberta.

## ERE Fabrication

Our 60,000 sq/ft facility in Claresholm, Alberta, is strategically located midway between Calgary and Lethbridge, Alberta on Highway 2, which situates us close to major services and suppliers. **Claresholm Welding and Fabrication** provides the specialty welding and associated services required to tackle the demanding structural requirements of rugged and military-use equipment. CWF is located near to ERE's facility to facilitate service turn-around times.

## ERE – Total Solution

We integrate engineering, fabrication, design, component assembly, and final assembly to provide our customers with the highest quality service in the following areas for any suitable IRB or DND project:

### •Equipment Overhaul



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## •Component Assembly



## •Turnkey Systems



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## ERE Systems Inc

Leaders in Vehicle Upgrading and Mechanical Design



ERE Facility near Calgary, AB

### Introduction

#### **Mission Statement:**

**Competitive, cost effective. Make the impossible, POSSIBLE!**

ERE provides durable equipment solutions through its expertise in the design and construction of rugged, specialty vehicles and related systems. **ERE Systems Inc.** has been overhauling, modifying, upgrading, and developing military vehicles and systems since 1998. Our focus on innovative design, coupled with simplicity and durability, has made ERE a leading supplier of services to industry and to the military.

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## ERE Experience

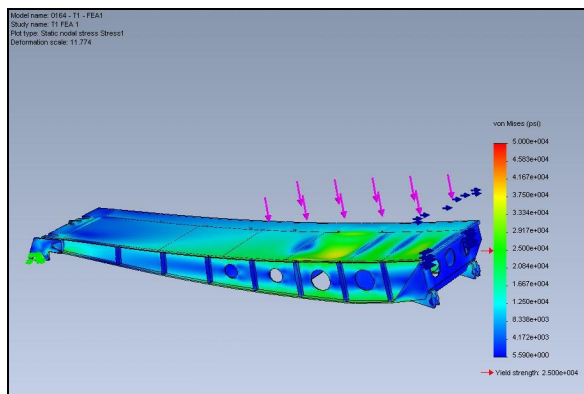
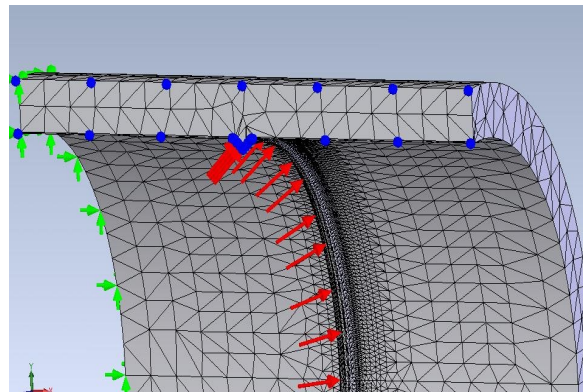
ERE has specific expertise in the upgrading, and development of specialty vehicles as well as other rugged, field equipment for military and heavy industrial applications. ERE has developed a mobile bridge system, and has designed and built heavy duty equipment for fire fighting. Due to a wide market diversity, ERE Systems continues to provide a stable business model.

## Capabilities

Specific technical competencies are provided by a team of participating companies that bring essential service components to each project, resulting in engineered products that have been modified, upgraded or built according to individual customer requirements

Expertise includes the following disciplines:

- **Design** – Professional mechanical designers provide 3D layouts and “as built” models of the required product or modification



- **Engineering** – Qualified mechanical engineers ensure that all components and structures meet the specified loads and operational functionality required for each project

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- **Fabrication** – All steel fabrication is carried out to the highest standards, utilizing high quality steel and hydraulic components. Certified Welders and Millwrights provide superior structural integrity throughout the construction phase



ERE S80T Bridge System



M1075 PLS

- **Assembly** – Components are installed by experienced Heavy Duty Mechanics in a well-equipped, 60,000 sq ft. facility

- **Field Testing** – All assembled units are field tested adjacent to the shop facility by qualified personnel to verify that all components and systems perform to specification



PLS Fire Package

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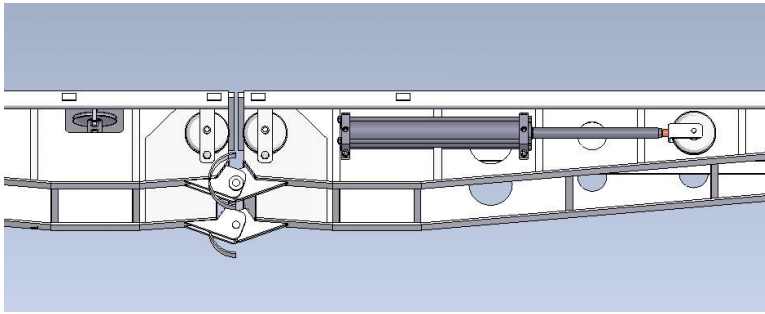
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## Design/Build Process

Each project is designed and constructed according to a proven process that ensures the end product is durable, reliable and suited to the intended application. The ERE team uses the following program to work through each project:

- Evaluation of the loads and required configuration
- Product design (if required)
- Modeling of loads and stresses
- Engineering and fabrication drawings
- Fabrication of structural components
- Assembly of components and parts
- Complete testing of assembled units



## Facilities

60,000 sq. ft. facility in Claresholm, Alberta including engineering field office  
Welding and fabrication facilities in Southern Alberta  
Component manufacturers in Alberta  
Engineering offices in Calgary



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## Products and Services

### ERE Systems

Innovators in Transportable Bridge Systems



S80T FR Bridge System

### Introduction

Mobile bridges are critical to logistical and operational efficiency in a diverse set of situations: military exercises, disaster response, emergency operations as well as transportation options in varied terrain and weather conditions. ERE Systems provides innovative solutions to operators through its expertise in designing and building transportable bridging systems.

#### **ERE Systems Inc.**

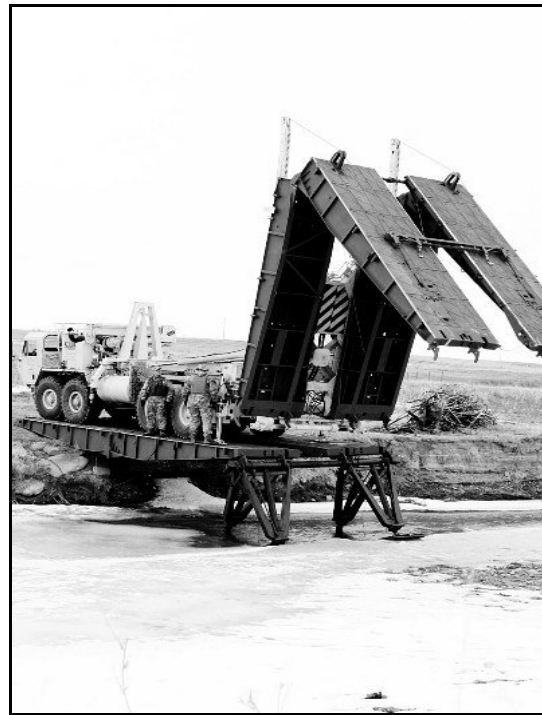
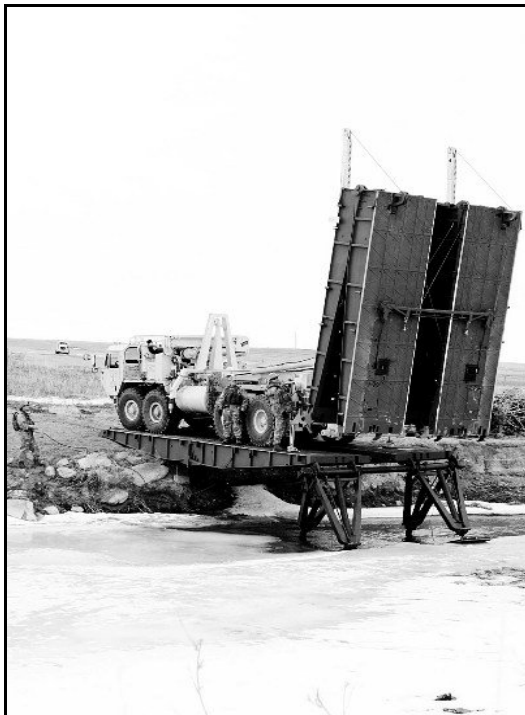
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## ERE Experience

ERE has specific expertise in the design and construction of mobile bridge systems as well as other rugged, field equipment for military and heavy industrial applications. ERE has developed the S80T Tactical Scissor Bridge System to be a flatracked, modular bridge with a capacity of 60 to 80 Tons. The system is equipped with remote control functionality and utilizes a unique, rapid deployment system that is safe and simple to operate.

## ERE Technical Documentation S80T FR Bridge System



### **Dimensions:**

Bridge Load Capacity (point load):	80 tons
Transport Length:	6.1 meters
Transport Width:	3.3 meters
Weight per Span with legs:	5600 Kg
Bridge Section Length:	12.2 meters
Track Width:	1.5 meters
Maximum Water Depth:	3.8 meters*

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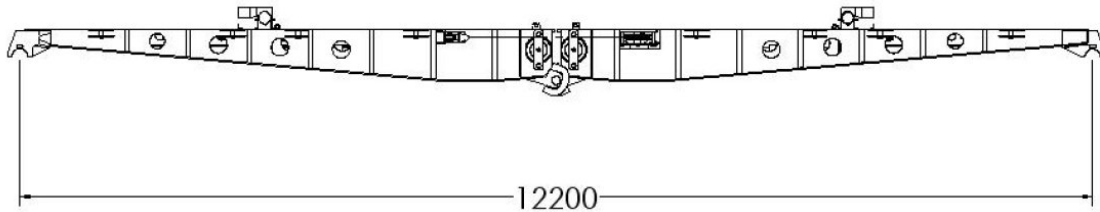


Maximum Bridge Width: 3.9 meters

\* 5 meters possible with reduced loading to 60 tons.

## **Construction:**

Entire bridge constructed of T1 steel.  
100% Made in Canada



## **S80T FR Bridge System**

### **Features:**

**Handrails** – Safety rails can be installed in a matter of minutes to ensure safe pedestrian traffic.

**Center Sections** – Once the bridge is deployed the center gap can be enclosed to facilitate multi-wheelers or pedestrian traffic.

**Flatrack System** – Each bridge segment is transported on a flatrack. This feature ensures that bridge segments can easily be transported on a Palletized Load System (PLS) or can be loaded on any flat deck truck. No specialized equipment is required to transport each segment because the bridge layer truck can unload segments from a flat deck truck and set them on the ground.

**Bridge-Layer Design** – The design of the truck enables the following tasks to be handled by a single vehicle: bridge deployment, truck-to-truck transfer of bridge segments, and utilization of empty flatrack for alternate cargo transport.



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## Benefits:

**Rapid Deployment** - This system is fast. The first segment can be deployed in as little as 30 minutes. The second and subsequent segments can be deployed in about 45 minutes with an experienced crew. All units are air transportable.

**One Vehicle, Many Functions** - Usually this type of bridge system will have one truck for each section of bridge. This is costly both in equipment and maintenance costs. ERE's system requires only one truck to lay as many pieces of bridge as are required. If the bridge has been deployed for an extended period of time, the truck can be converted to a flat deck truck in a matter of three minutes, ready to transport other types of cargo.



**Minimum Preparation Time** - With this bridge system there is no prior preparation of the banks required to deploy the bridge. If the bank of the water crossing is unstable, the bridge segment is simply deployed as far back as necessary to have stable soil, with minimal consideration to bank height.

**Multi-Purpose Modules** - The individual bridge segments can be used as portable docks, allowing barges to load/unload cargo in areas that would otherwise be too shallow. The system can be used to construct a temporary helipad in soft or uneven terrain.

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**Scalability** - There is no limit to how many bridge segments can be connected.

## ERE Systems Corporate Profiles



### ERE Systems Inc

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## TANGENT

### Tangent Design Engineering Ltd

**Tangent** ([www.tangentservices.com](http://www.tangentservices.com)) is a full service engineering design firm providing core expertise in mechanical engineering and product design. Our scope of services includes electro-mechanical system design, stress analysis, fluid flow modeling, regulatory and product compliance management, as well as testing and certification. Tangent can take your product from concept to completion, or focus on specific issues with one of our specialized engineering services.



### Claesholm Welding and Fabrication

**Claesholm Welding & Fabricating** ([www.claesholmwelding.com](http://www.claesholmwelding.com)) is located in Claesholm, Alberta, a community about 100 km south of Calgary. The company has been in operation for twenty nine years, providing complete welding services (in shop and portable) and turn-key fabrication services.



### VariSystems Inc

**VariSystems Inc.** ([www.varisystems.com](http://www.varisystems.com)) uses an innovative process to over-mold electrical cable assemblies for various industrial, manufacturing, transportation, and high tech applications. VariSystems custom builds durable, cost effective cable assemblies and related products for OEM, retail, and service industries.

Custom-built electrical cables • Complete in-house manufacture • OEM supply

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