Building Bridges.
Connecting People.

ACROW
BRIDGE

It’s Not Just Steel that Supports an Acrow Bridge

A full-service design and engineering firm, Acrow Bridge specializes in prefabricated, modular steel bridging solutions for permanent, temporary and emergency use. For more than half a century, Acrow has supplied bridges to urban and rural locations all over the world to help customers build strong and sustainable transportation infrastructure.

Designed, engineered and manufactured in the United States, Acrow bridges are based on the firm’s proprietary, state-of-the-art technology in modular steel bridging. These bridges are engineered and manufactured to the highest quality standards in material and workmanship and supported by value-added services that leverage Acrow’s deep technical know-how and extensive project management experience in bridge manufacture, supply and installation.

Pensacola, Florida

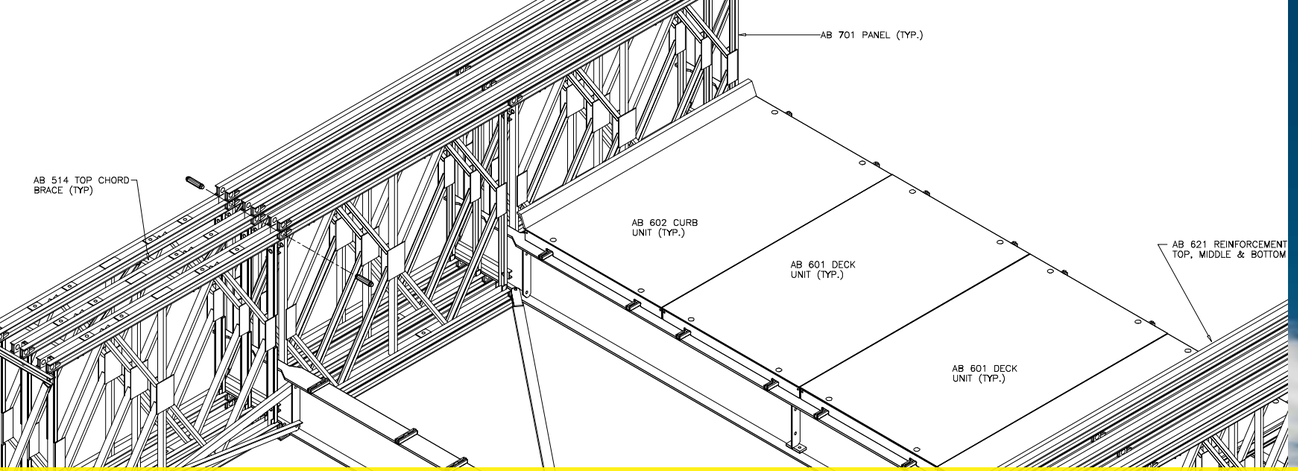
Building Bridges. Connecting People.

At Acrow, bridges are much more than an assembly of steel components. They are part of a vital lifeline linking communities around the world, from major metropolitan regions to villages in remote countrysides.

Bridging is a serious responsibility. Through its bridges, Acrow makes new connections that create opportunities by replacing aging infrastructure, rebuilding what was lost in a disaster and opening up new passageways to a better way of life.

Bridging is also a highly gratifying experience. It brings people and communities together in ways that enable each to prosper. Whether needed to transport heavy traffic across high-speed highways, farmers to neighboring markets or lifesaving supplies to distressed areas, Acrow bridges are delivered with integrity and respect for the communities they touch.

Democratic Republic of Congo

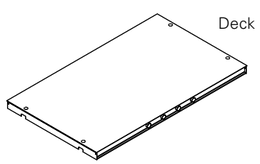


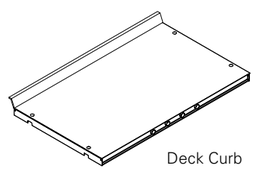
Advanced Modular Steel Technology

Prefabricated, modular steel bridging is a proven, time-tested solution that meets diverse permanent, temporary and emergency needs. From ease of customization to speed of installation, prefabricated modular steel bridges deliver many advantages over comparable conventional bridges. The Federal Highway Administration (FHWA) of the United States advocates the use of prefabricated modular systems because they offer significant time and cost savings, safety benefits, environmental advantages and convenience for travelers.

Acrow's proprietary technology takes the modular steel bridge to new heights. It starts with the materials Acrow uses – high strength, high quality U.S. steel from ISO-certified mills. It continues with Acrow's advanced design and engineering of its bridge components, such as orthotropic deck panels that distribute loads more efficiently across the width of a bridge. And in manufacturing, Acrow hot-dip zinc galvanizes every bridge component down to the pre-drilled holes for pins and bolts for anti-corrosion and easy maintenance.

Acrow's technology platform – the Acrow 700XS® panel bridge system – is considered a gold standard in steel bridging. Now in its third generation, the 700XS technology is used in tens of thousands of bridges around the world. And because of its unique attributes, the Acrow bridging system has been adopted by the U.S. Army, Canadian Army, Australian Defence Force and United Nations Peacekeeping operations as a standard bridge for logistical support.


Deck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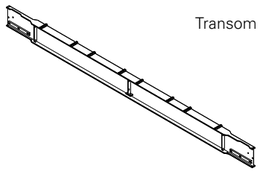
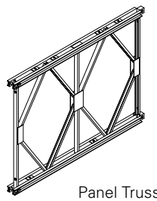

Transom


Panel Truss

The Benefits of Acrow Technology

- Diverse applications ranging from temporary detours to permanent moveable bridges
- Multifunctional, accommodating vehicle, rail, vessel, heavy haul, military and pedestrian traffic as well as providing access and support on construction and excavation sites
- Easily customized to desired length, width and strength through the simple addition of prefabricated, modular components
- Fast assembly and disassembly even under challenging conditions and when using local labor
- Flexible launch methods with minimal equipment needed to lift or roll into place
- Durable even in the most rugged conditions
- No maintenance with galvanized steel
- Easy to transport by standard truck or ocean shipping containers to anywhere in the world
- Reusable with modular components that can be readily stored, transported and reassembled
- Time-tested technology that Acrow has continuously improved to exceed even the most rigorous quality standards

Rochester, Vermont

Vehicular Bridges

Flexibility defines Acrow's bridge offering for cars, trucks and other passenger and commercial vehicles. Acrow bridges can be easily lengthened, widened and strengthened to address a full range of vehicular needs as well as different design load standards. Sidewalks and advanced safety features, such as a steel crash barrier system, can also be added.

Labrador, Canada

Long Span Bridges

Acrow can expand its bridges to accommodate up to four lanes of traffic, with spans that can exceed 400 feet (122 meters), through its partnership with Structal-Bridges. Length, width and strength are easily adjusted with Acrow's modular bridge components.

Railroad Bridges

Acrow bridges can transport both freight and passenger trains. They are designed to support American and European railway loadings, including the American Cooper E80 load, which is the heaviest train loading in the United States for main railway lines.

Columbus, Ohio

Moveable Bridges

As the industry leader, Acrow has developed some of the world's most innovative solutions in bascule, vertical lift, sliding and other moveable bridges for vessel passage. The use of modular components to build approach spans, towers and moveable spans enables Acrow to meet tight delivery schedules for even the most complex structures.

Oak Bluffs, Massachusetts

Labrador, Canada

Heavy Haul Bridges

Acrow's heavy haul bridges are designed to support a steady flow of heavy off-road trucks, machinery and equipment typically used on construction and excavation sites and by the military. Easy to erect, take down and transport for use in different locations, these bridges are capable of handling trucks with loads exceeding 550 tons (500 metric tonnes) each in gross weight.

Darwin, Australia

Military Bridges

The Acrow 700XS bridge system has been selected as a standard Line of Communication Bridge for logistical support by military organizations around the world, including the U.S. Army, Canadian Army, Australian Defence Force, National Army of Colombia, Chilean Army, Israeli Army, Indonesian Army and United Nations Peacekeeping operations. Used under a variety of conditions, Acrow bridges are valued for their ability to support large armored tanks and heavy trucks and also serve as a portable, reusable system designed for fast assembly and disassembly.

Extractive Industry Bridges

Acrow bridges are well suited to meet the specialized needs of the energy, mining, oil and gas industries, providing safe and efficient access to work sites. Acrow's on-site technicians are Mine Safety and Health Administration (MSHA) trained and certified to ensure safe and smooth installation.

Mullan, Idaho

Detour Bridges

Acrow bridges used as detours around road construction sites address two major issues. By providing a temporary roadway that is predictable and unchanging, traffic disruptions are reduced while the safety of motorists and construction workers is enhanced. Detour bridges have also been shown to reduce construction costs and help increase both productivity and profitability.

Pittsfield, Vermont

Parsippany, New Jersey

Pedestrian Bridges

As a temporary or permanent solution, the Acrow pedestrian bridge is available in galvanized steel, or weathering steel, which creates a gentle patina over time for a more natural look. These bridges can be fitted with a timber, steel or reinforced concrete deck.

Shoring Systems

Acrow's steel bridge components can provide critical support for structures potentially at risk of collapse, such as a building or bridge undergoing construction. Superprop® Shores, assembled from Acrow components, can each support up to 270 tons (245 metric tonnes) and be used in any vertical, horizontal or knee-bracing application.

North Brunswick, New Jersey

DeSabla, California

Other Solutions

Using the 700XS modular components, Acrow can also design and engineer beam bridges, pipe bridges, utility bridges and truss supports for permanent, temporary and emergency use.

Kealakaha, Hawaii

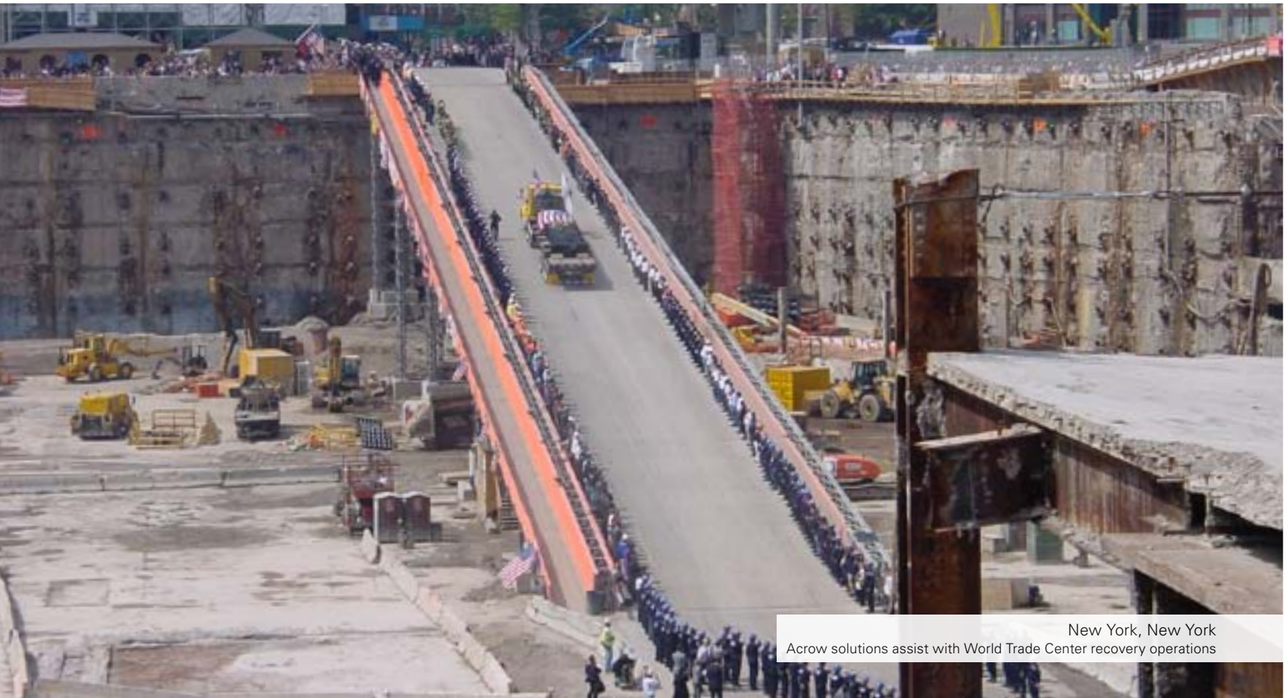
The Acrow 700XS bridge can be used to launch concrete girders on construction sites.

Emergency Solutions

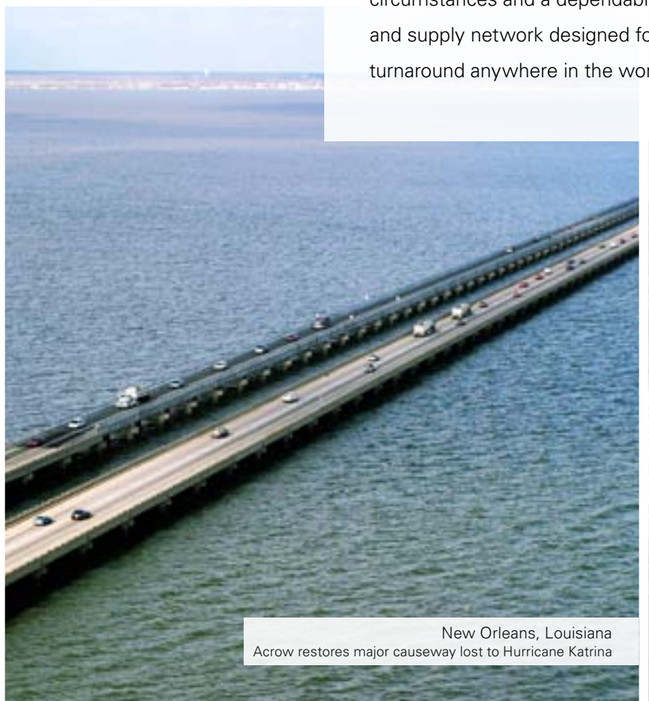
Acrow's unmatched ability to provide emergency bridging solutions is built on years of experience in restoring transportation lifelines under extreme circumstances and a dependable service and supply network designed for quick turnaround anywhere in the world.

All over the world, Acrow has replaced bridges lost to natural catastrophes and man-made disasters. From hurricanes, earthquakes and floods to major highway accidents and military conflict, Acrow has earned a reputation as the bridge company of choice in times of crisis.

Bio Bio River, Chile
Acrow reconnects Chile's second largest city after 2010 earthquake



New York, New York
Acrow solutions assist with World Trade Center recovery operations



New Orleans, Louisiana
Acrow restores major causeway lost to Hurricane Katrina

Pittsfield, Vermont
Acrow replaces bridge washed away during Hurricane Irene

Three Options for Fast Installation

One of the distinct advantages of Acrow prefabricated modular steel bridging is in the ease and speed of installation. With or without skilled labor and sophisticated equipment, an Acrow bridge can be built and erected in a matter of hours or days.

Cantilevered

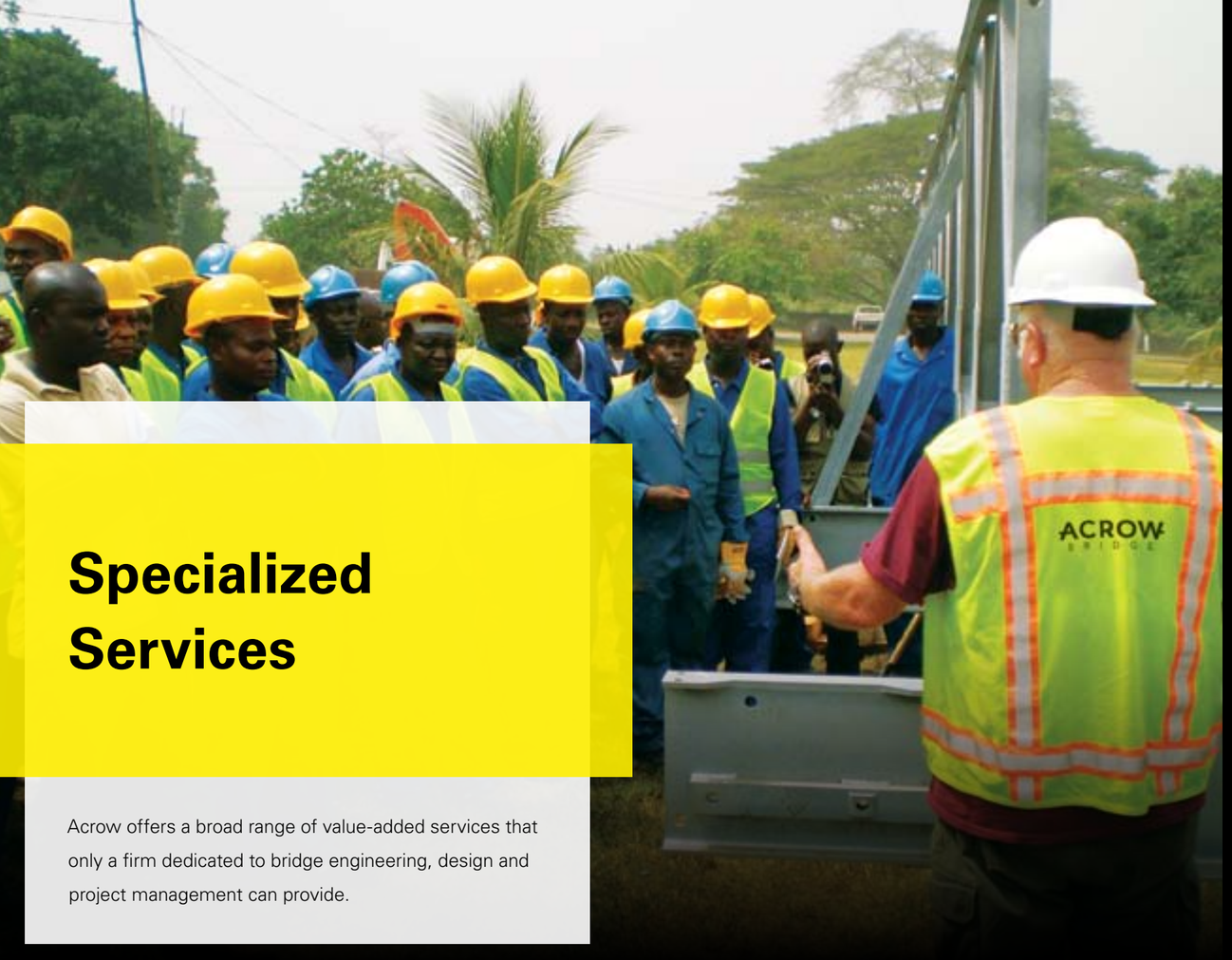
A full cantilever rolling launch allows for an Acrow bridge to be rolled into place without the use of a crane. This method is ideal in locations where heavy machinery and other resources are limited or unavailable.

Crane Assist

An Acrow bridge can also be launched using a crane if the required equipment is available. This method is fast and easy and requires less counterweight than a cantilevered launch.

Lift In

With the right size crane, an Acrow bridge can be lifted into place. This type of installation, which is the fastest, may be required in exceptionally demanding situations, where, for example, timing and speed are critical or space is tight.



Specialized Services

Acrow offers a broad range of value-added services that only a firm dedicated to bridge engineering, design and project management can provide.

Design & Engineering Consulting

Behind every one of the tens of thousands of Acrow bridges across the globe is a highly experienced, licensed team of Acrow engineers, who are available for on-site consultation anywhere in the world.

Technical Support

In an Acrow bridge installation, customers typically use local labor. Acrow provides a dedicated on-site engineer to oversee the installation, working with the customer's assembly crew.

Training

For large-scale infrastructure development projects, Acrow provides a unique training opportunity for both private and public sector customers to receive critical knowledge transfer. Graduates of the 2-3 week training program gain the technical skills needed to not only participate in bridge assembly, but also to manage future maintenance and repair.

Financed Development Projects

Leveraging a global network of financial institutions and other sources of capital, Acrow can arrange financing for qualified bridge projects and also facilitate the process of securing a guarantor to obtain below market interest rates and fees.

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