

Ryertex™ is a family of thermoset laminate composites used mainly as a replacement to metal. Ryertex™ is used around the globe in a wide array of industrial applications to include processing, mills, oil and gas, mining, military, aerospace, rail, locomotive, off-road and construction equipment.

The Ryertex™ line includes all NEMA grades with substrates including paper, cotton, linen, fiberglass, and aramid fiber. The resin system can be phenolic, epoxy, silicone, or melamine.

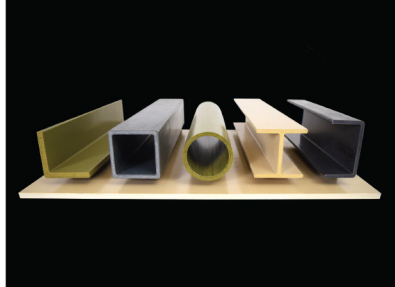
While Ryertex™ is a very commonly recognized brand name, there are several other names in the marketplace that are thermoset laminate composites. These include: Micarta, Bakelite, "Phenolic", Resiten, Garolite, Acculam, Lamitex, Gatke, Scan Pac, Spauldite, Phenolex, Tufnol, Lamigamid, Schwartz, Current, and Synthane. WS Hampshire can cross reference your requirements to the corresponding Ryertex™ offering. Ryertex™ is owned by WS Hampshire.

### BEARINGS & BUSHINGS



**High loads – Elevated Operating Temperatures – High impact.** Ryertex™ often replaces materials such as Brass, Bronze, Babbitt, and Steel in bearing and bushing applications. Less wear, longer service life, and self-lubricating features are often the benefit of using Ryertex™. Used in many applications in industrial equipment markets including – power generation, electrical, transportation, hydraulic equipment and steel, aluminum and copper mills.

### PULTRUDED FIBERGLASS



**Lightweight - Corrosion & UV Resistance - Low Conductivity.** Fiber reinforced polymer (FRP) composites utilizing the pultrusion process are increasingly replacing steel, aluminum, and wood in a wide variety of structural applications. Fiberglass offers exceptional strength to weight ratios – FRP weighs 75-80% less than Steel.

Available in sheet, square and round tube, angles, channels, and I beam configurations. Products can be manufactured in various resin types with or without flame retardants. Also available are grating, decking, railings, studs and bolts.

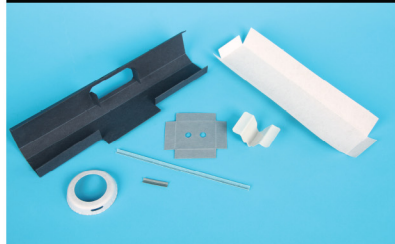
### THERMAL INSULATION



CS85™ Calcium Silicate, Glatherm®, Marinite®, Mica, and Transite® products provide excellent options for high temperature thermal insulation in applications where continuous operating temperatures range from 425° F – 1800° F. Key properties include high voltage resistance, high dielectric strength, low heat conductivity, and excellent dimensional stability (minimal shrinking).

These asbestos free materials are commonly used for press platen insulation, plastic & zinc diecasting mold insulation, arc shields, buss bar supports, numerous applications in foundries, and where industrial furnaces are used.

### DIE FORMING- FLEXIBLE MATERIALS

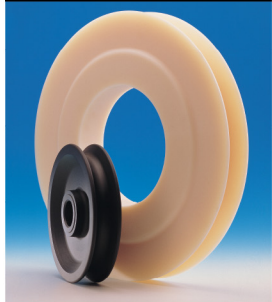


We specialize in steel rule, rotary die cutting, punch pressing, and slitting operations, as well as in-house custom die making, tooling, and hot bending. Whether you're manufacturing motors, generators, transformers or electronic devices, WS Hampshire will exactly bend, fold, form or punch your choice of flexible materials. We fabricate a wide variety of papers, laminates and films to ANSI, ASTM, CE, CSA, Mil-Spec and RoHS standards.

For LED lighting, our fabricated parts have expanded into reflective films and adhesive backed materials often with complex patterns to accommodate LED board designs.

Founded in New York in 1967 by Rudolf Walter as TIMCO (Technical Import Company), TIMCO's origins began with expertise in technical plastics such as Nylon (PA6), UHMW, Acetal (POM), and other thermoplastic materials. Today, you will find our engineered fabricated products in many industrial equipment applications, heavy lifting equipment, and steel mills.

## SHEAVES



**Weight Reduction - Extended Wire Rope Life - Corrosion & Weather Resistant.** TIMCO cast nylon sheaves are increasingly found on a wide variety of lifting equipment. They often replace sheaves made of cast iron or steel. Today, TIMCO sheaves can be found on nearly any type of crane including gantry, tower, rough terrain, and crawler, truck, and pedestal cranes. They are also used in equipment for the wire drawing and cable stranding industries, on forklifts, telehandlers, manlifts, and mobile drill rigs and in many other mechanical systems. TIMCO is the largest supplier of machined non-metallic sheaves in North America.

## WEAR PADS



**Reduced Friction, Noise, Vibration – Improved Wear Resistance – Self Lubricating Properties.**

Wear pads are used to protect surfaces and improve sliding properties in industrial applications. Wear or slider pads typically offer a combination of properties in applications such as extension booms in cranes, aerial work platforms, and even fire truck ladders.

Depending on the material chosen, wear or slide pads can be made as wide as 60", up to 8" thick, and up to 10 feet long. Different configurations (such as flat, rounded, corner) can be made. Fabricated pads can be supplied with or without inserts, which can be one of our stock standard inserts, or other commercial inserts for specific needs. Many standard and specifically modified grades of nylon and other engineering plastics are available, allowing you to balance performance and cost requirements.

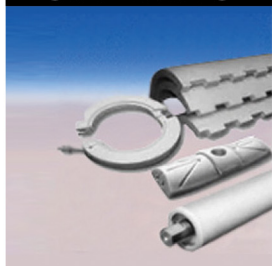
## CRIBBING & OUTRIGGER PADS



Our engineered plastic cribbing plates and outrigger pads offer lightweight, strong, and solid support for your mobile telescoping equipment and mobile cranes. Unlike other materials, TIMCOLITE™ plates can be easily handled and positioned by one person. Our plates don't warp like wood or corrode like steel. They have no pilferage value, and we are confident they won't break. Rope handles provide up to 2,000 lbs. of pulling force – four times as strong as the industry standard. Round pads are engineered to roll on edge and can be stacked completely flat.

Provided for decades to crane, concrete and paving equipment users, our high-quality cribbing plates and outriggers help keep their trucks steady. We stock a broad range of round and square cribbing plates. Custom sizes are also available up to 6 in. thick x 6 foot x 6 foot.

## STEEL MILLS



Nylon and Ryertex™ materials are commonly found in the roll shop in both hot and cold rolling mills. Our parts offer lightweight handling and installation, long part life and reduced maintenance requirements in many applications. Critical operating requirements are to absorb wear, which is frequently caused by torque load, rotation, and misalignment.

Nylon parts include table rolls with cast nylon roll bodies that are easily exchanged in existing equipment and provide quieter operation and longer wear life without the need for lubrication. Other applications include slipper pads, mandrel segments/filler plates, and thrust collars.

Ryertex™ parts (see next page) include strippers & wipers, fiber bearings, bearings & bushings, wear plates, and entry & exit guides.