

# WE'RE NOT NEW—JUST NEW TO YOU

## LONG-TERM PARTNERS

- > BP
- > Rio Tinto
- > Chevron
- > Peabody Energy
- > Duke Energy
- > Exxon Mobil
- > Warn Industries
- > Manitowoc
- > MOL
- > Southern Cal. Edison
- > NYK
- > Crowley
- > NASA
- > Petzl
- > National Grid

Samson has already led synthetic rope innovation in aerospace, mineral mining, offshore drilling, tanker mooring, utility, vehicle winch, and other industries.

Now, as the crane industry embraces the benefits of synthetic rope solutions, Samson is the ideal partner to guide you into this new era. We've revolutionized new rope technologies for more than 130 years.

### K-100™

K-100™ is a product of joint application development between Samson and Manitowoc, supported by fiber supplier DSM. This close collaborative partnership leveraged the experience and technical expertise of each company's research and development teams to bring the market something that is completely new.

- 80% lighter than the wire it replaces
- Multiple benefits for safe and easy handling
- Torque neutral, no spinning
- Same load pull and load chart with 5:1 safety factor
- Flexible and robust spooling

An extensive lab testing and field trial program was conducted by Manitowoc and Samson to prove the viability of using synthetic rope as a crane hoist line.

- Laboratory testing at four different testing labs—two Samson labs and two third-party labs
- Over 4,000 hours of machine and sample preparation time to complete
- Over 4.6 miles of rope was used for testing and field trials

## SAMSON LEVERAGES EXPERIENCE AND INNOVATION TO BRING THE CRANE INDUSTRY A NEW LIFTING EXPERIENCE

### PERDIDO SPAR Servicing the world's deepest oil production facility

The Perdido Spar, operated by Shell on behalf of partners BP and Chevron, is part of the world's deepest oil production facility. Shell faced a problem: at water depths over 8,000 feet, a traditional wire rope drum winch system would be too heavy for the platform on which it was to rest. A revolutionary new winch/rope system was needed. Shell turned to Samson for their expertise in high-strength, lightweight synthetics and to Logan Industries for a simple, yet unique traction-style winch design. It's these all-encompassing relationships that set Samson apart to deliver the best possible products and services to any industry.

### SEAWAY Installation of 140 turbine foundation monopiles in the world's largest wind farm

Located in the sandbanks 23 km off the coast of England, the Greater Gabbard project is the world's largest wind farm. Seaway Heavy Lifting was involved in the installation of 140 turbine foundation monopiles in the demanding conditions of the British sector of the North Sea.

Seaway Heavy Lifting used lifting slings made of Samson's AmSteel®Blue for the job instead of heavy, awkward wire or cable-laid version. The flexible and pliable slings mitigated potential damage to the monopiles during their transfer from the supply barge to the deck of the installation vessel.

### BW SHIPPING Tanker replaces wire, saves \$81,000 annually

BW Shipping manages a worldwide fleet of 53 vessels. BW Shipping adopted Samson's AmSteel®Blue mooring lines for 11 of their new builds; which is a reflection of both the benefits of the product, and the superior service Samson provides.

"Ship owners are always cost conscious... In the big picture, the actual cost involved over time and the personal safety issue, switching from wire to synthetic rope make it worthwhile," according to Capt. Paul C. Jones, General Manager of the Marine Department at BW Shipping. "The cost issues were covered by an in-depth analysis that looked at all the costs involved with mooring wires that we had not previously considered in detail. Since synthetic lines are lighter and easier to handle, the analysis that Samson provided revealed that deckhands could reduce port deployment time by one hour. Over the course of the year, this added up to an annual savings of \$81,000."



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