

LIFTING
SYSTEM



samson
THE STRONGEST NAME IN ROPE

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AGILE
LIFTING SYSTEM
POWERED BY **samson**



Job Type - User

Multi-unit complex installation -
Project Manager for lifting contractor

Incumbent Sling

Steel Wire Rope Sling

Job Requirements

- 1 Complex rigging — challenging logistics
- 2 Tight project timelines
- 3 Sensitive payloads subject to damage

AGILE Enables

- 80% lighter rigging enables:
 - safer, faster handling
 - reduced rigging time
 - increase lift capacity
 - No need for auxiliary cranes to support
- Software design tools simplify lifting and logistics planning
- Short lead times

AGILE™ LIFTING SYSTEM



Samson's Next Generation Heavy-lift Synthetic Sling

When weight is the enemy, make AGILE your ally.

As today's offshore construction payloads continue to push the limits of engineered lifts, traditional rigging has become heavier—and therefore more difficult to handle. As complexity increases, so does the possibility of costly delays, safety risks, and increased operating expenses for construction contractors and lift planners.

What makes AGILE so AGILE?

AGILE Lifting System is a patented design to address the concerns for weight, safety, scheduling, and handling of engineered lifts requiring sling strengths of 50t - 4,000t. Utilizing the proven rope technology AmSteel®Blue and AS-78™ synthetic lines that Samson is known for, **AGILE** is a hybrid product that combines the advantages of both round and rope slings into one lightweight, easy-to-handle rigging system for heavy payloads.

When is AGILE the Best Solution?

Sling Product	Light Weight and Ease of Handling is Required	Lift Capacities Fall between 50mt - 4000mt	Equipment Sensitive to Rigging Damage	Cut / Snag Resistance / Durability is Required	Shorter Lengths Required	Quick Lead Times Needed
Samson AGILE	●	●	●	●	●	●
Cable-Laid		●		●		
Rope	●	●	●			
Fiber Round	●		●		●	●

AGILE Lifting System is designed to match the strength and light weight of Samson's proven synthetic rope slings—but with a form factor similar to round slings. A continuous length of high-performance synthetic rope is looped multiple times within critical length tolerances, organized to maintain balance internally, and finished with a sheath that protects the line from outside damage.



Re-Configure & Use Again

When your lifting project is complete, you may be able to have your AGILE sling reconfigured for other lifts.

Lift Capacity

AGILE slings are available in strengths ranging from 50t to 4,000t. As your lift capacity increases, AGILE scales up to meet it.

Lighter Weight

Cut the weight of your rigging by 80% as compared to steel wire.

Low Maintenance

No greasing or lubrication required. Won't rust or corrode in marine environments.



AGILE™ from the inside out.

Durable

A tough outer sheath contains and protects the inside loops from abrasion, cutting and snagging.



Easy Handling

At 1/7 the weight of steel wire, AGILE slings can be easily moved, maneuvered, and rigged by hand—without the expense and hassle of employing an auxiliary crane in most cases.

Shorter Lengths Available

When minimum length and high-load requirements are a concern, AGILE can provide you shorter length slings that can't be achieved with other synthetic rope slings. AGILE can easily address length tolerance concerns for matched sets.



INSIDE

AGILE™ LIFTING SYSTEM



Easy Inspection

Just open the protective cover to check the rope and seal it back up. You can't do that with fiber round slings.

Faster fulfillment

Fabrication and fulfillment can be achieved in just days using rope from Samson distributors' stock vs. waiting for large diameter ropes to be manufactured.



A hybrid design that pairs the strength of Samson's high-performance synthetic ropes with a protective cover to create a form similar to round slings, without the limitations.

AGILE is easy to use in multiple applications and configurations to fit your lift needs.



Dyneema® is a registered trademark of Royal DSM N.V. Dyneema is DSM's high-performance polyethylene product.

Easier Engineering, Configuration, and Customization

Our advanced, proprietary configuration software generates precise sling designs quickly with pinpoint accuracy. Through consultation with Samson's engineering team, multiple design options can be easily identified for optimization of lift plans.



AmSteel®-Blue



AS-78™



Used in the fabrication of AGILE slings.

Precision Matched Lengths

Matched length AGILE slings can be fabricated within exacting tolerances of +/- .25% OAL or better. This level of precision isn't available in traditional rope sling manufacturing.

Gentle on Equipment

Unlike steel wire that can scratch and damage sensitive equipment, AGILE sling covers are made of a non-abrasive, but still tough, material.

TESTED

AGILE™ LIFTING SYSTEM

Tried and True Foundation — AmSteel®-Blue and AS-78™

AGILE Lifting System is built on a foundation of proven synthetic rope performance: AmSteel®Blue and AS-78™. For over 25 years, Samson has been the predominant supplier of ropes made with Dyneema® in industries as diverse as offshore energy, vessel mooring, tug assist, mining, utility, recreational marine, arboriculture, commercial fishing, and, most recently, crane. **AGILE** technology leverages this unprecedented track record. In addition, extensive testing has been done to understand these ropes' behavior performance characteristics beyond strength; like abrasion, tension fatigue, cyclic bend over sheave (CBOS), UV resistance, shock loading, and more.

Configuration Design Built from Experience and Technology

AGILE uses Samson's advanced proprietary performance modeling software that empowers engineers to meet complex lift requirements quickly and with pinpoint accuracy. Samson has invested substantially to create a predictive model: building, testing and characterizing 50+ full scale slings over a 2-year period.

Testing included alternate rigging configurations, along with deliberate mis-rigging to determine what effect misuse would have on the slings' performance. The results verified that, even in the case of mis-rigging, **AGILE** slings retained greater than 85% of design strength in all cases.

After extensive field trials and tests, **AGILE** Lifting System is a proven strong and durable option. After a 10-month trial that comprised hundreds of lifts per sling, inspections revealed no significant damage other than cosmetic scuffing of the covers, and residual strength tests have shown that **AGILE** slings retained 90%-100% of their rated strength.

Using your design requirements and specifications, we can generate a sling model customized to fit your exacting parameters. Moreover, the configurator generates additional lift options and design solutions for cost or schedule considerations.

Unbreakable Bond of DSM Dyneema and Samson

AGILE Lifting System is one of many industry-firsts in a long line of such innovations created from the strong and successful partnership between Samson—*The Strongest Name in Rope*, and DSM Dyneema, creator of Dyneema®—*The World's Strongest Fiber*. Our collaborative product development efforts result in the best combinations of fibers, rope constructions, and coatings, delivering safer working conditions, improved performance, reliability, and long service life to customers around the world.



“We saw the need for a better way to explore and evaluate heavy-lift sling engineering before fabrication. The result is a powerful optimization tool that helps our customers find the best solution for complex engineered lifts.”

Greg Mozsgai, R&D Manager - AGILE Innovator

Job Type - User

Single, challenging lift - Engineer at subsea installation contractor

Incumbent Sling

Synthetic Rope Sling

Job Requirements

- 1 Light weight of rigging to enable maximum payload
- 2 Short Lengths
- 3 Extremely tight length tolerances for matched sets

AGILE Enables

- Easy to handle & no snagging
- Capacities up to 4000T MBS in straight pull
- Short lengths at high capacities (i.e. 1000T MBS at 1.6m overall)
- Matching sets easily achieved

Global Distribution Partners



What's one of your big lifting challenges?

Connect with Samson or one of our AGILE certified distributors to see if the AGILE Lifting System is right for your offshore projects. We're looking forward to demonstrating what a next generation synthetic sling can do to shave off weight, shorten-lead times, provide ease of engineering, and improve handling of heavy lift slings.



SamsonRope.com

We've put all our information here for easy downloading. We think it is the best resource for information on high-performance synthetic ropes available anywhere.

- Rope specifications
- Product details by application and industry
- Technical bulletins
- Case studies
- Splicing instructions

Samson App

For the iPhone and iPad this handy app features:

- Inspection and retirement criteria
- Internal and external abrasion inspection information
- Splice instructions
- Case studies
- Splicing instructions



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