



STRONG AND MORE SUSTAINABLE EQUIPMENT WITH STRENX® TUBES

Strenx® performance steel can make your products stronger, lighter, safer, more competitive and more sustainable. We call it performance steel, because it adds performance beyond ordinary structural steel.

The Strenx® range of high-strength structural steel tubes come as circular, square and rectangular shapes – even customized shapes are available upon request. Strenx® tubes have superior strength to weight ratio for your high-performing equipment.

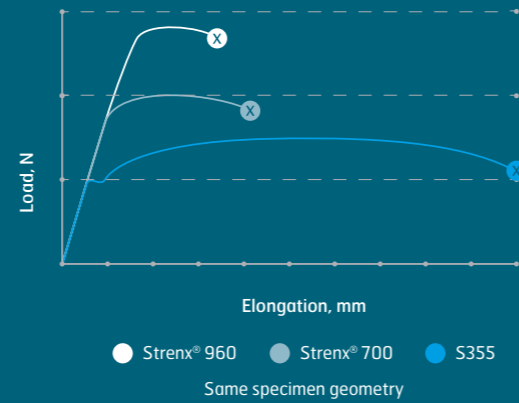
THE BENEFITS OF STRENX® TUBES

- Depending on the starting point, designers can cut up to 30% weight of steel structures by using thinner tubes with higher strength.
- Lighter equipment becomes more resource-efficient and can save energy in operation.
- Tougher when it's needed most in low temperature.
- Dimensional consistency from batch to batch.
- If the parts are welded, welding time and the amount of welding consumables will be significantly reduced.
- Weldable with conventional welding methods, easier to repair than other materials.
- Lower material costs than aluminum or carbon fiber.
- Higher specific strength than high grade aluminum.
- Less environmental impact in whole lifecycle than aluminum.
- Steel is 100% recyclable.

THE BENEFITS OF HIGH YIELD STRENGTH

Steel with a yield strength of 700 or 960 MPa can be stressed much higher than a S355 steel.

This means thinner dimensions can be used at the same load level, or the load level can be higher if the same dimensions are used. Either way, higher yield strength will improve performance.



STRENX® TUBE 700MLH

Extreme toughness for cold conditions

Toughness: 27 J at -50 °C
Circular: 42.4-323.9 mm
Square: 40x40-300x300 mm
Rectangular: 50x30-400x200 mm*
Wall thickness: 2.0-10.0 mm
Mill length: 6-12/18 m
Standard: EN 1090-2, EN 10219

STRENX® TUBE 900MH

High-strength structural tube in multiple shapes

Toughness: 40 J at -20 °C
Circular: 139.7-244.5 mm
Square: 100x100-200x200 mm
Rectangular: 120x80-250x150 mm*
Wall thickness: 4.0-6.0 mm
Mill length: 6-12/18 m
Standard: EN 10219-3

STRENX® TUBE 960MH

High-strength structural tube in multiple shapes

Toughness: 40 J at -20 °C
Circular: 139.7-244.5 mm
Square: 100x100-200x200 mm
Rectangular: 120x80-250x150 mm*
Wall thickness: 4.0-6.0 mm
Mill length: 6-12/18 m
Standard: EN 10219-3

* Other shapes and sizes are available upon request.

STRENX® TUBE 700QLH

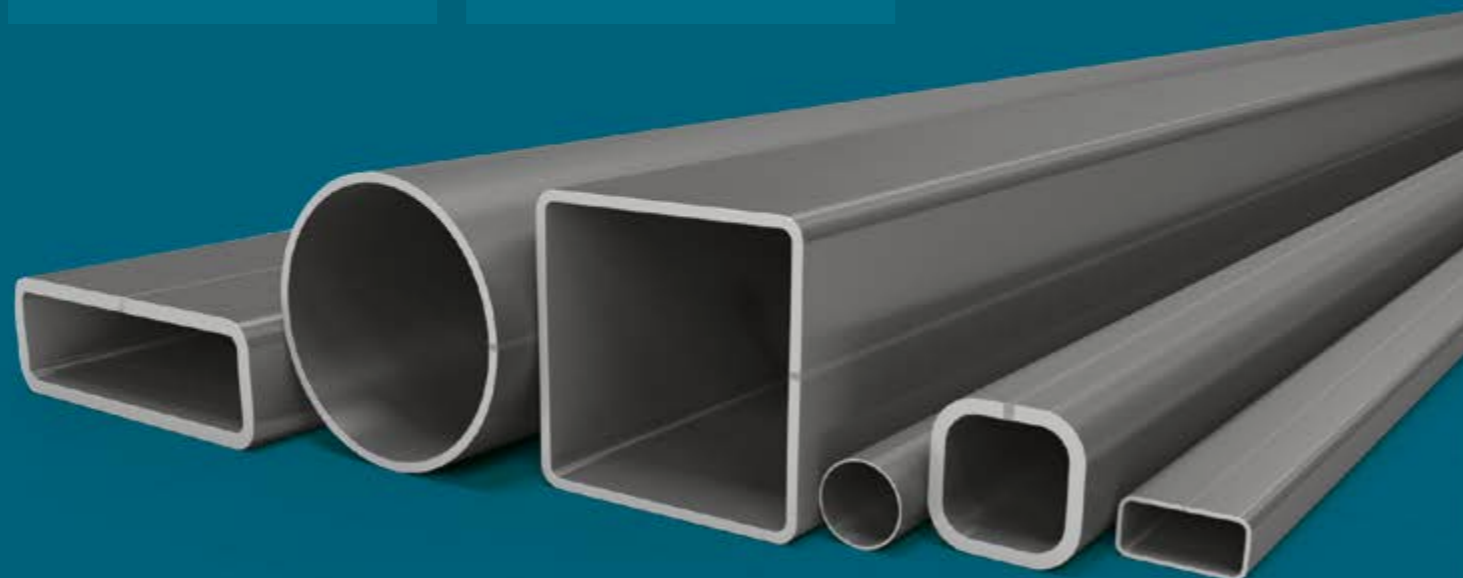
Plasma welded tube with high toughness

Toughness: 40 J at -40 °C
Circular: 76.1-133.0 mm
Wall thickness: 3.0-6.0 mm
Mill length: 6-12 m
Standard: 10210-2

STRENX® TUBE 960QLH

Plasma welded tube with high toughness and yield strength

Toughness: 40 J at -40 °C
Circular: 76.1-133.0 mm
Wall thickness: 3.0-6.0 mm
Mill length: 6-12 m
Standard: EN 10210-2



Equalizer lightens the load in farming

Our customers got a 40% lighter row planter when we upgraded to Strenx® high-strength structural steel tubes," says Gideon Schreuder, Managing Director at Equalizer.



Spierings lifts to the max with Strenx® tubes

The Dutch company Spierings Mobile Cranes designs unique mobile cranes made of Strenx® Tube 700MLH and Strenx® 700MC that outperform the competition.



Mapro Systems makes lightweight tractor with Strenx® tubes

"We have used other steels before in our chassis. When we upgraded to Strenx® some years ago we immediately could go up in size without adding any weight," says Mats Andersson, owner and inventor at Mapro Systems.

Made for predictable performance in the workshop



Thermal cutting

The properties and fine surface finish of Strenx® tubes make it perfect for laser cutting. Thermal cutting of Strenx® tubes is also possible with oxy-fuel flame and plasma.



Machining

Strenx® tubes can usually be machined without special equipment. Stable machinery fitted with high-speed steel and carbide tools is recommended.



Welding

Strenx® tubes can be welded using any conventional welding method. MAG welding is the most common technique today, since it is very easy to automate for high productivity.



Mechanical cutting

Strenx® Tubes can sawed with normal practices. Compared to mild steels tubes, saw blade wear can be lower, as the low carbon equivalent prevents the longitudinal weld seam from hardening in the welding process.

Strenx® guarantees

Strenx® Tubes and Sections meet or exceed the tolerances of European standards: EN10219 for cold formed welded steel structural hollow sections and EN10210 for hot finished steel structural hollow sections.



Get in touch for support

As a user of Strenx® steel you have access to our support resources. Contact SSAB Tech Support for technical questions and SSAB Knowledge Service Center for application and production development.



SSAB is a Nordic and US-based steel company. SSAB offers value added products and services developed in close cooperation with its customers to create a stronger, lighter and more sustainable world. SSAB has employees in over 50 countries. SSAB has production facilities in Sweden, Finland and the US. SSAB is listed on Nasdaq Stockholm and has a secondary listing on Nasdaq Helsinki. www.ssab.com.



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