

# FRC Global

## Cored Wire & Alloys





**Expert Teams.**



**Quality Products.**



**Global Networks.**

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## Who We Are

FRC Global is a leading supplier of refractories, electrodes, and high temperature combustion systems. FRC Global provides outstanding results for our clients within the iron, steel, and non-ferrous industries. Our company's reputation is built by delivering high quality products made with premium raw materials. We are more global now than ever before.

We give you a competitive advantage by offering you superior proven products that positively impact your bottom line and perform better. Our knowledgeable engineers ensure the proper application of our products to give you the maximum level of output and safety.

With over 25 warehouse facilities in the United States, Canada, Mexico, and South America we assure your products are readily available when you need them in these regions.

**Through the use of vast global resources, all of us at FRC Global are committed to being the value creators and problem solvers for our industry.**



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## Our Mission

Embrace modern technology to increase innovation, efficiency, and transparency. Inspire the next generation by driving change, promoting curiosity, and shaping sustainable solutions in the high temp world.





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# About Us

## Background Information

FRC Global is a second generation family owned company with a 30-year history.

## Global Offices

**FRC Global has offices, agents, or partners in 20 countries around the world.**

- North America: United States and Canada
- South America: Colombia
- Asia: China

We provide quality engineered products and services for all your high temperature applications.

## FRC Global facts

Our quality control employees thoroughly inspect shipments to ensure products are within specification and are properly packaged.

**Sales force and service needs are available in the following:**

- North America
- Central America
- South America
- Europe
- Middle East



# Why FRC Global?

## We show up for high-temp potential.

For over three decades, we have built strong partnerships by living up to our reputation of showing up for our customers. Our team is made up of hard-working people—many who have been in your shoes and understand the challenges you face. We are constantly thinking ahead, anticipating new barriers, and providing better solutions.

Our team knows that no two challenges are the same. When we show up to understand you and your operation, we study it to ensure we propose solutions, not just products.

As a company full of dedicated product managers and meticulous quality control teams, we travel around the

world to produce high-end products from only the best raw materials. With seasoned engineers on staff, we identify opportunities for performance and production improvements.

We are committed to excellence. Our strong relationships with global enterprises—primarily in strategic raw materials—ensure availability, performance, and consistent high quality. Our vast network serves as a cornerstone in our ability to deliver results on a global scale.

As proactive problem-solvers, we see your challenges as our own and look forward to achieving your project's greatest potential.

# Cored Wire Injection Machine

FRC Global is dedicated to producing high quality cored wire and wire feeding equipment. We offer reliable, easy to maintain and user friendly operated cored wire injection machines. They come in choices of one, two, and four strand models to best suite your operation requirements.

## The capabilities of our cored wire injection machine include but are not limited to:

- Fits wires with diameters between 5 to 20 millimeters
- Suites cored wire coils that are used through horizontal or vertical axis
- Strong and sturdy frame design made up of heavy duty components
- Making it operational in local and remote mode
- Comes with a comprehensive communication interface that enables easy data exchange with computers



## Technical data

<b>Feeding Speed</b>	0-420 m/min
<b>Motor</b>	2x9KW - two strand 4x9KW - four strand
<b>Electrical protection</b>	IP55/IP54
<b>Power Supply</b>	AC 380/400/415V, 50/60Hz Air pressure 0.5-0.8 Mpa
<b>Weight</b>	1300Kg - two strand 1900Kg - four strand
<b>Dimension</b>	L1300xW880x1400mm- two strand L1300xW880xH2400mm-four strand

## Optional Requirements

To meet the demands of a wide customer base, we are able to accommodate individual requests for: **1.** Remote control console, **2.** Extractable guide pipe, **3.** Electrically controlled trolley

# Our Core Product

## Durable strength that lasts

Cored wire provides the highest recovery rate, and increases productivity in the secondary metallurgical process.

We have a wire that improves core consistency which provides an accurate core to steel percentage. The ratio of core to steel provides instant, exact metallurgy when the core is melted and the impurities are then removed. It gives us a quality level that others can't match by providing wire products that feature a perfect appearance and a reliable quality.

Our cored wire solutions is an ideal choice for the steel industry. It comes in diameter sizes of 9, 13 and 16 millimeters, however 9 and 16 millimeter wires are manufactured based on customer's request.



## Packaging dimensions

Vertical Coil Packaging Dimension		
Length (m)	3400	4500
Inside Diameter (mm)	600	600
Outside Diameter (mm)	1150	1150
Height (mm)	800	1200

Horizontal Coil Packaging Dimension		
Length (m)	3400	4500
Inside Diameter (mm)	600	600
Outside Diameter (mm)	1150	1000- 1150
Height (mm)	800	1200

\*Coil packed in steel pallet with steel cage shrink-wrapped in plastic film for vertical and horizontal axis

# Product Range

## FRC Global considers your needs

Taking into consideration the operation needs of steel and foundry industries, FRC Global not only produces common size cored wires but goes one step ahead by accepting custom made requests as one size does not always fits all.

Products	Fill Rate (g/m)			Applications
	Ø 9mm	Ø 13mm	Ø 16mm	
<b>CaSi</b>	-	225	330	Suitable in desulphurization, deoxidation and modification of inclusions
<b>CaFe</b>	-	250	365	For low Si steel, modifications of inclusions, desulphurization, deoxidation and avoids nozzle clogging when casting
<b>CaAlFe</b>	-	150	300	Similar capabilities of CaFe with a further grain size improvement
<b>FeTi</b>	-	370	570	For microalloying and deoxidation
<b>FeB</b>	-	503	825	For microalloying
<b>C</b>	-	140	205	Carbon fine adjustment, trimming addition
<b>Mg</b>	-	140	210	Used in desulphurization and modularization
<b>MgFeSi</b>	-	235	330	Used in modularization
<b>CaSiBa</b>	-	225	330	Strong deoxidation and desulphurization agent for ultra clean steel and foundry casting
<b>Al</b>	-	200	300	For deoxidation and grain size improvement
<b>S</b>	-	190	280	Utilized in the resulphurising of engineering steels
<b>FeSi</b>	-	235	280	In nodularisation
<b>PureCa</b>	55	-	-	This PureCa in powder form for treatment low Si-Steel, modification of inclusions, avoid nozzle clogging when casting and improvement transverse mechanical properties of the steel.





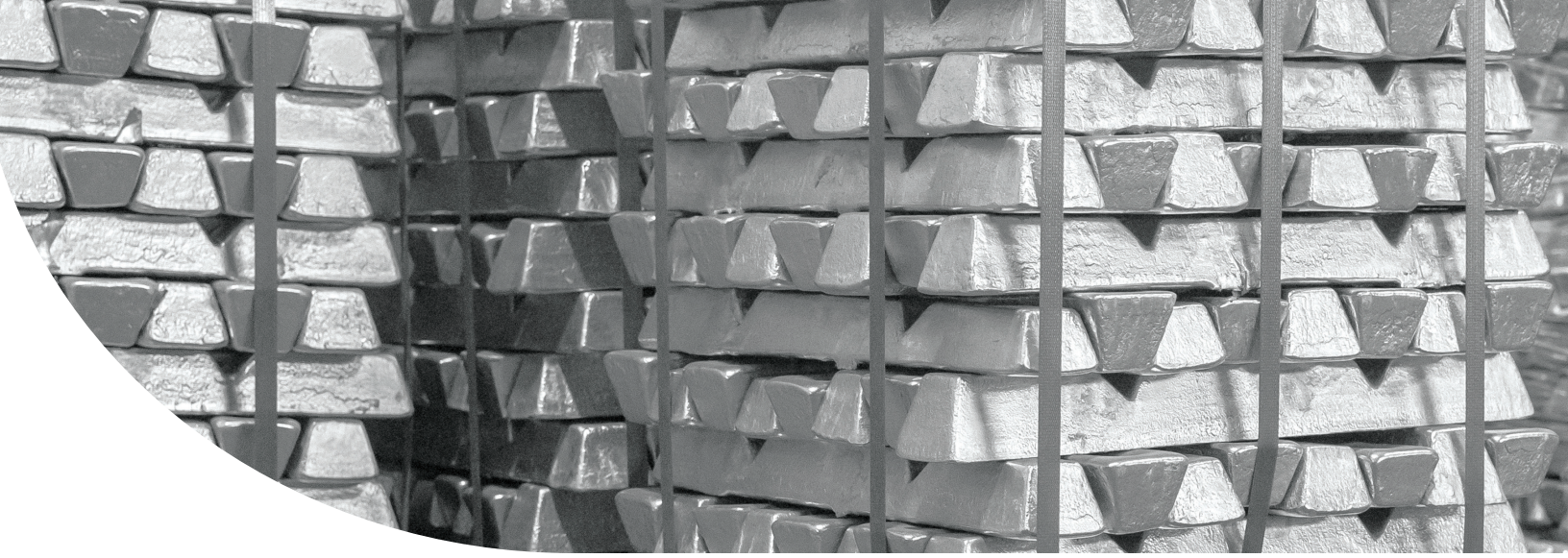
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# Cored Wire Technology

## Product Description

Cored wire technology is an integral element in secondary metallurgical treatment where the precise treatment and fine adjustment of the chemistry of molten metal is required. The continuous development of cored wire and wire feeding equipment has greatly enhanced secondary metallurgy possibilities.

We utilize our expertise in the production of cored wire and wire feeding equipment to develop and produce stringent quality control in raw materials that results in improved quality and value of our products.



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# Alloys

## Product Description

FRC Global can supply your common alloy needs. Our high-quality alloys are priced competitively, yet are fully guaranteed.

## Performance Highlights

We offer a variety of commodity alloys at different carbon levels to fit your target chemistry.

- Ferrosilicon
- Ferrochrome
- Ferromanganese
- Aluminum notch bar and ingot

## Why FRC for your alloy needs?

We do much more than just alloys, and therefore focus on being competitive by providing the highest value possible. By offering only high-quality, high-performance products at aggressive price points, we pass that value on to you.

# Working Alongside You

FRC offers advisory and consultation support for your project at any stage of the process: site viability, process and operations, technical assistance to engineering teams, equipment selection, project logistics, assistance training and supervising project personnel. FRC also provides technical support, training and supervision to project personnel in the following areas: electric arc furnace, ladle metallurgy furnace, and continuous caster.





# High Temp Innovation

## United States

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## Canada

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## South America

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## Asia

Dalian, China

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