

# FRC Global Cored Wire and Alloys

Innovation

High Temp

**FRC**  
Global

# Expert Teams.

# Global Networks.

# Quality Products.

## 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.**

# Mission Statement

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.



# About Us



## Background information

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

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

Global Offices:

- ◆ 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?

## Why Us

Our experts in the metals industry provide the products and services that you need to successfully treat your steel. We offer cored wire in a variety of sizes along with wire feeding equipment.

Our knowledgeable engineers ensure the proper application of our products to give you high yield and value.

Our strong relationships with global enterprises, primarily in strategic raw materials ensure availability, price stability and consistent high quality.

We have on-staff engineers, product managers and quality control teams who travel around the world to produce high-end products from only the best raw material to generate superior results for our customers.



# 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:

Feeding Speed	0-420 m/min
Motor	2x9KW – two strand 4x9KW – four strand
Electrical protection	IP55/IP54
Power Supply	AC 380/400/415V, 50/60Hz Air pressure 0.5-0.8 Mpa
Weight	1300Kg – two strand 1900Kg – four strand
Dimension	L1300xW880xH1400mm- 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	
CaSi	-	225	330	Suitable in desulphurization, deoxidation and modification of inclusions
CaFe	-	250	365	For low Si steel, modifications of inclusions, desulphurization, deoxidation and avoids nozzle clogging when casting
CaAlFe	-	150	300	Similar capabilities of CaFe with a further grain size improvement
FeTi	-	370	570	For microalloying and deoxidation
FeB	-	503	825	For microalloying
C	-	140	205	Carbon fine adjustment, trimming addition
Mg	-	140	210	Used in desulphurization and modularization
MgFeSi	-	235	330	Used in modularization
CaSiBa	-	225	330	Strong deoxidation and desulphurization agent for ultra clean steel and foundry casting
Al	-	200	300	For deoxidation and grain size improvement
S	-	190	280	Utilized in the resulphurising of engineering steels
FeSi	-	235	280	In nodularisation
PureCa	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.



# 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.

# Calcium Carbide



## Product Description

Calcium carbide is a chemical compound ( $\text{CaC}_2$ ) produced industrially in an electric arc furnace by heating (in excess of 3300 °F /1800 °C) a mixture of coke and lime. Raw calcium carbide is used as a desulfurizer in pig iron, cast iron and steel. Sometimes it is used as a deoxidizing agent in ladle treatment facilities. This product is added to liquid steel both during and after the melting state for the fast introduction of calcium into the steel which is required for sulfur removal and inclusion modification. Calcium carbide can also be used as a fuel to extend the scrap ratio to liquid iron.

## Performance Highlights

We offer calcium carbide in the sizes and packaging you require. Calcium carbide is often a more cost effective method of desulfurization and deoxidizing iron and steel. Our engineers strive to find higher efficiency products to improve your production.

# Alloys



## **Product Description**

FRC Global can supply all your alloy needs.

Our high-quality alloys have been developed to improve the properties of your steel by introducing specific elements in desirable quantities.

## **Performance Highlights**

The addition of appropriate alloys can optimize your process and increase the lifespan of your ladle refractories. Our engineers understand the thermodynamics of your molten steel and slag formation and can find you the right product for your application.

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# FRC Global

## **United States**

1000 N. West Street, Suite 1200 #3008  
Wilmington, DE 19801

## **Canada**

Montreal, Quebec

## **South America**

Cali, Colombia  
Phone: 011-57-310-826-2701

## **Asia**

Dalian, China

1-800-609-5711

[www.FRCglobal.com](http://www.FRCglobal.com)