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**Falcon Eye Group** is a global steel distribution company founded in 2018. Our core business is of wide range long, flat and semi-finished distribution of steel products including all products. We also specialise in the supply of raw materials vital to the process of steel production, including iron pig iron, HBI, DRI and ferroalloys

We focus on acquiring materials from the best steel mills around the world and deliver only top quality steel to our customers. Our customers range from intermediate steel mills, products. Our strong relationship with reliable suppliers has always guaranteed to provide our customers with the product steel processors to manufacturers of specialist steel they need when they need it.



# Products DRI

Direct Reduced Iron (DRI) also known as sponge iron, is the product of the direct reduction of iron ore in the solid state by carbon monoxide and hydrogen derived from natural gas or coal. DRI is a high Fe, low residual metallic material for producing high quality iron and steel products in a wide variety of furnaces. Direct reduced iron has different sizes and forms and all of them are easy to convey in plants or transferring to other locations.



Chemical Composition	%
Total Fe	88.0+ 1.0
Metallic Fe	81.0+1.0
Metallization	91.0+0.5
C	1.8 min.
S	0.009+ 0.003
P	0.05 + 0.02
SiO <sub>2</sub>	3.5+0.7
Al <sub>2</sub> O <sub>3</sub>	0.8+0.4
CaO	0.8+0.4
MgO TiO <sub>2</sub>	2.2+0.4
TiO <sub>2</sub>	0.15 + 0.07
Size	%
0-5 mm	10





# HBI

Hot Briquetted Iron (HBI) is used as a supplement for pig iron and scrap in electric furnace steel mills. It is a compacted form of direct reduced iron (DRI), which facilitates its handling, storage, and use. Its greater mass allows rapid penetration of the furnace slag layer. HBI is 100 times more resistant to reoxidation than conventional DRI and will pick up 75% less water. The principle market for HBI is electric arc furnace steelmaking, but HBI also finds application as a trim coolant in basic oxygen furnace (BOF) steelmaking and as blast furnace feedst

Chemical Composition	%
Total Fe	85-89
Metallic Fe	78-82
Metallization	90-93
C	0.88+0.1
S	0.010+0.001





# BILLETS



Element		C	Mn	Si	P	S
—	—					

Element		C	Mn	Si	P	S
—	—					

Grade	Range	C	Mn	Si	S	P	Cr	Ni	Cu	Al	N2ppm
<u>SAE 1006</u>	Min%		0.25	0.1							
	Max%	0.08	0.45	0.2	0.05	0.04	0.15	0.15	0.3	0.02	80

Grade	Range	C	Mn	Si	S	P	Cr	Ni	Cu	Al	N2ppm
<u>SAE 1008</u>	Min%	0.05	0.3	0.1							
	Max%	0.1	0.5	0.2	0.05	0.04	0.15	0.15	0.3	0.02	80

# REBAR

Straight lengths from 10 mm to 40 mm in diameter

- Coils from 8 mm to 16 mm in diameter
- Production in accordance with international standards such as ISO-6935/2, JIS -G31 12, ASTM-A615, DIN-488, BS-4449
- Custom thread types based on order
- Many references for supply of cryogenic and others special rebars
- Approved by first-tier construction consultants and general contractors
- Full length (12 meters) for all bars in bundles
- Controlled weight per unit length for more economical use
- Mill test guarantee certificate and traceability



## \* Typical rebar chemical composition

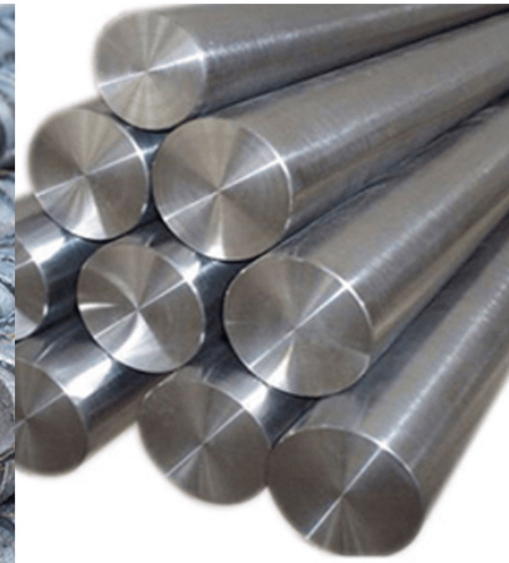
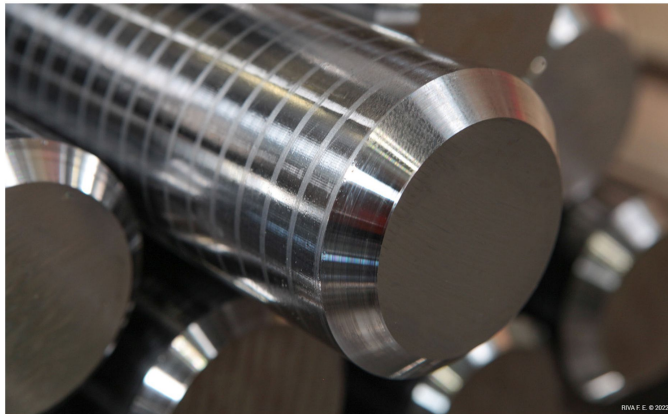
Material	C	Si	Mn	P	S	Cr	Ni
ST5SP	MAX 0.37	MAX 0.30	MAX 0.45	MAX 0.040	MAX 0.050	MAX 0.3	MAX 0.3

## \* Rebar mechanical properties

Grade of steel	Yield strength	Ultimate tensile strength (Mpa)	Yield strength (Mpa)
AJ-340	350-405	480-600	19-23
AJ-400	415-525	595-710	17-19
AJ-500/520	520-600	645-780	16-17

# PLAIN BAR

- Straight lengths from 10 mm to 150 mm in diameter
- Coils from 16 mm to 28 mm in diameter
- Passed through ED and UT tests







# WIRE ROD

Protective packaging for ease of use and transport

- Technical know-how for production of thermo-mechanically rolled grades
- Various steel grades such as low and high carbon steel, alloy steel, stainless steel, in all categories including construction grade, drawing grade, cold heading and welding filler material
- From 5.5 mm to 16 mm in diameter (and 16 mm to 28 mm based on order) .2 tons \coil weight
- Plain and ribbed wire rods according to standard codes
- Ability to produce most steel grades in various categories O Mesh quality (RSt34/ St37/ ST3SP/ ST5SP,..)
- \* Drawing quality, low and high Carbon (SAE 1006/ 1008/ 1010/ 1018/ SWRH62B / SWRH82B,...)
- \* Cold heading quality (SAE 1010/ 10B21 / 10B28/ 10B38,...)
- \* Welding filler materials (S2/ SG2/ SWRY 11,...)

## \* Typical wire rod chemical composition

Material	C	Si	Mn	P	S
RST34-2	MAX 0.12	MAX 0.3	0.26 0.54	MAX 0.040	MAX 0.040
SAE 1006	MAX 0.08	—	0.25 0.040	MAX 0.040	MAX 0.050
SAE 1008	MAX 0.10	—	0.30 0.50	MAX 0.040	MAX 0.050
SAE 1010	0.08 0.13	—	0.30 0.60	MAX 0.040	MAX 0.050
SWRY 11	MAX 0.09	MAX 0.03	0.35 0.65	MAX 0.020	MAX 0.020
SWRY 21	0.10 0.15	MAX 0.03	0.35 0.65	MAX 0.020	MAX 0.020
C67	0.65 0.72	0.15 0.35	0.60 0.90	MAX 0.045	MAX 0.045



# FLAT BAR

.Width from 120 to 400 mm

- Thickness of 8 mm to 40 mm (customizable)

Technical Benefits:

- No micro cracks due to lack of cutting the sheet
- Mill edges for each piece
- Straightened and ease of assembling on fixtures for welding

• Optimal weldability Economic Benefits:

- Saving on cutting costs
- Minimal wastage
- Increasing the throughput of workshop from ease of use
- Saving on additional shipping cost

## \* Flat bar dimensions and weight

Width (mm)	Thickness (mm)	Bars weight (Kg/6m)	Number of bars in each bundle	Bundle weight (Kg)
8	150	56	28	1600
8	200	75	42	3300
8	250	94	34	3300
10	150	70	23	1600
10	200	94	34	3300
10	250	117	27	3300
10	300	141	22	3300
12	150	85	19	1600
12	200	113	28	3300
12	250	141	22	3300
12	300	169	19	3300
15	150	105	31	3300
15	200	141	22	3300
15	250	176	18	3300
15	300	211	15	3300
20	200	188	17	3300
20	250	234	13	3300
20	300	281	11	3300
25	200	234	13	3300
25	250	293	11	3300
25	300	351	9	3300
30	200	281	11	3300
30	250	351	9	3300
30	300	421	7	3300



# IPE BEAM

- \* Optimal weight per unit length
- Strong tying packaging that protects the beam bundle to the point of use
- Smooth straight ends
- Straightened
- Size from 140 mm to 240 mm
- 12 meters in length or other custom lengths
- Steel grades of St37, St44 and St52
- Other beam types according to order

## \* IPE beam dimensions and mass

Dimensions and tolerances (mm)											
IPE Number	Height (h)		Width (b)		Thickness (s)		Thickness (t)		r	Weight (Kg/m)	Tolerance %
	Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance			
14	140		73		4.7		6.9		7	12.9	
16	160	+ 3.0	82	+ 3.0	5.0		7.4		9	15.8	
18	180	- 2.0	91	- 2.0	5.3	± 0.75	8.0	± 0.75	9	18.8	± 6
20	200		100		5.6		8.5		12	22.4	
22	220	± 3.0	110	± 3.0	5.9		9.2		12	26.2	

## \* IPE beam mechanical properties

Grade of steel	Minimum Yield strength	Ultimate tensile strength (MPa)	Elongation (%)
St-37	235	360-510	26
St-44	275	430-580	22
St-52	355	510-680	22





# IRON OXIDE CONCENTRATE

- Extremely low impurities
- Ideal for pelletizing
- 65 to 68 % Fe content
- Maximum phosphorus: 0.016 %
- Maximum sulfur content: 0.05 %
- Fines size: 80% under 75 microns



# REBAR TRUSS GIRDER

- Heights from 10 cm to 30 cm
- Lengths from 1 m to 14 m
- Diameter of parallel bars between 8 mm to 14 mm
- Diameter of zigzag rod from 4 to 6 mm
- Zigzag's angle at least 45 degrees with 20 cm weld intervals
- Produced from internally produced wire rod
- Customizable production based on order
- Automatic and mechanized welding in accordance with building codes



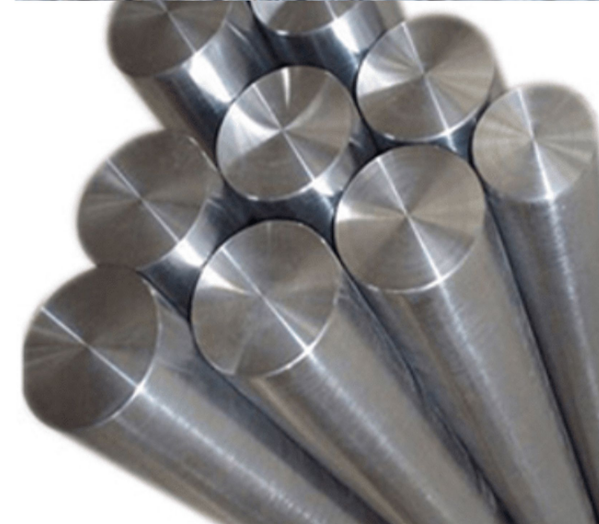
## Advantages truss girder:

- Designed to reduce steel consumption
- Geometric order in truss components in terms of distance, angle, height and length
- Ability to create custom heights to minimize waste
- Speed and ease of transportation as well as speed up the implementation of projects
- Welding by fully automated spot welding machine and thus increasing the welding quality

# GROUND BAR

.Precise dimensional tolerance control and suitable for all types of bearings

- From 7 mm to 95 mm in diameter
- Dimensional tolerances in accordance with DIN-5936/H6 & H7



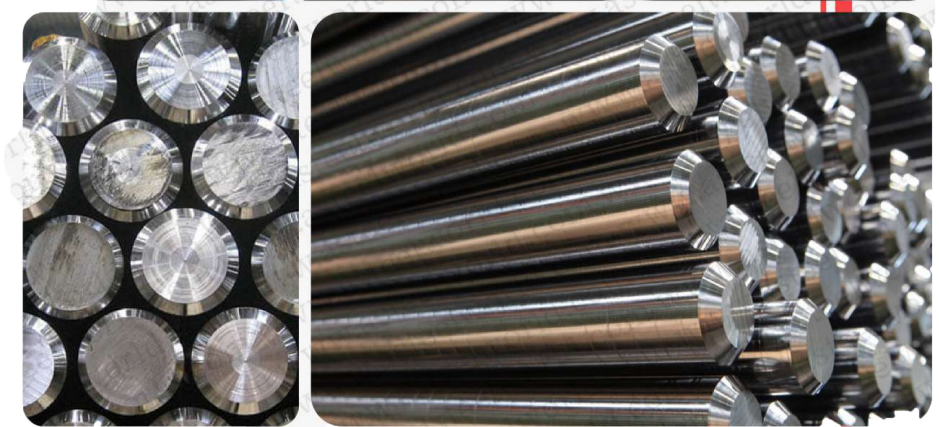
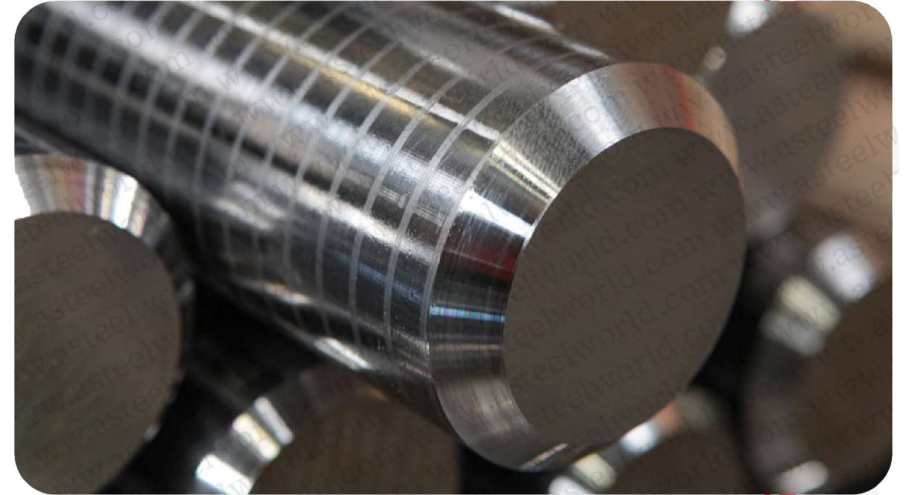




# PEELED BAR

.Dimensional control in accordance with  
DIN-668/H11

- Customizable for grade
- Quick order processing
- From 16 mm to 100 mm in diameter
- Dimensional tolerances according to  
DIN-668/H11



# COLD DRAWN BAR

- \* Coil to coil, bar to bar and coil to bar drawing possibility
- Dimensional control in accordance with DIN-671 /H9
- No limitations on steel grade
- Ability to change of diameter or shape of the cross section and producing of round, square, rectangular and hexagonal bars
- Round shafts from 7 mm to 100 mm in diameter
- Coils with round section from 6 mm to 36 mm in diameter
- Hexagonal shafts from 6 mm to 70 mm
- Square shafts from 6 mm to 60 mm
- Dimensional accuracy according to DIN-671 / H9





# FERRO MANGANESE

Grade	High Carbon Ferro Manganese I	Medium Carbon Ferro Manganese II	Medium Carbon Ferro Manganese III	Medium Carbon Ferro Manganese III
Mn	70% min.	75% min.	75% min.	78% min.
Si	1.5% / 2% max.	1.5% / 2% max.	1.5% / 2% max.	1.2% / 2% max.
C	8% max.	2% max.	1.5% max.	1.5% max.
P	0.25% / 0.30% max.	0.25% / 0.30% max.	0.25% / 0.30% max.	0.25% / 0.30% max.
S	0.04% max.	0.025% max.	0.025% max.	0.025% max.
Size	10-50 mm or as per customer choice	10-50 mm or as per customer choice	10-50 mm or as per customer choice	10-50 mm or as per customer choice





# SILICO MANGANESE

Grade	Ferro Silico Manganese I	Ferro Silico Manganese II	Ferro Silico Manganese III
Mn	58% min.	60% min.	65% min.
Si	13% min.	14% min.	16% min.
C	2.5% max.	2.5% max.	2% max.
P	0.30% max.	0.30% max.	0.3% max.
S	0.04% max.	0.04% max.	0.04% max.
Size	10-50 mm or as per customer choice	10-50 mm or as per customer choice	10-50 mm or as per customer choice



# SILICON

Grade	Ferro Silicon	Grade	Silicon Chrome
Si	70% min.	Si	40-45%
C	0.15 % max.	Cr	28 % min.
P	0.5% max.	P	0.4% max.
S	0.5% max.	S	0.3% max.
Al	1.5% max.	C	0.10% max.
Size	10-50 mm or as per customer choice	Size	10-150 mm or as per customer choice





# FERRO CHROME

Grade	Low Carbon Ferro Chrome I	Low Carbon Ferro Chrome II	Low Carbon Ferro Chrome III
Cr	58-60%	60% / 65% min.	65% min.
Si	1.5% max.	1.5% max.	1% max.
C	0.10% max.	0.10% max.	0.10% max.
P	0.04% max.	0.03 / 0.04% max.	0.03% max.
S	0.03% max.	0.03% max.	0.03% max.
Size	10-50 mm or as per customer choice	10-50 mm or as per customer choice	10-50 mm or as per customer choice







# FERRO CHROME

Grade	High Carbon Ferro Chrome I	High Carbon Ferro Chrome II	High Carbon Ferro Chrome III
Cr	58% / 60% min.	60% min.	60% / 62% min.
Si	3.5% / 4.0% max.	3% max.	1.5% / 2% max.
C	8% max.	8.5% max.	9% max.
P	0.04% max.	0.035% / 0.04% max.	0.035% / 0.04% max.
S	0.05% max.	0.05% max.	0.05% max.
Size	10-50 mm or as per customer choice	10-50 mm or as per customer choice	10-50 mm or as per customer choice

