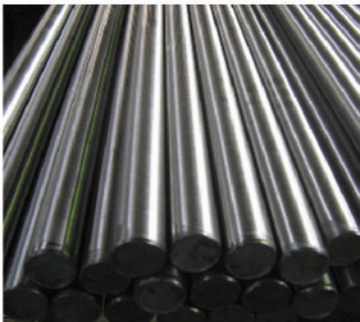
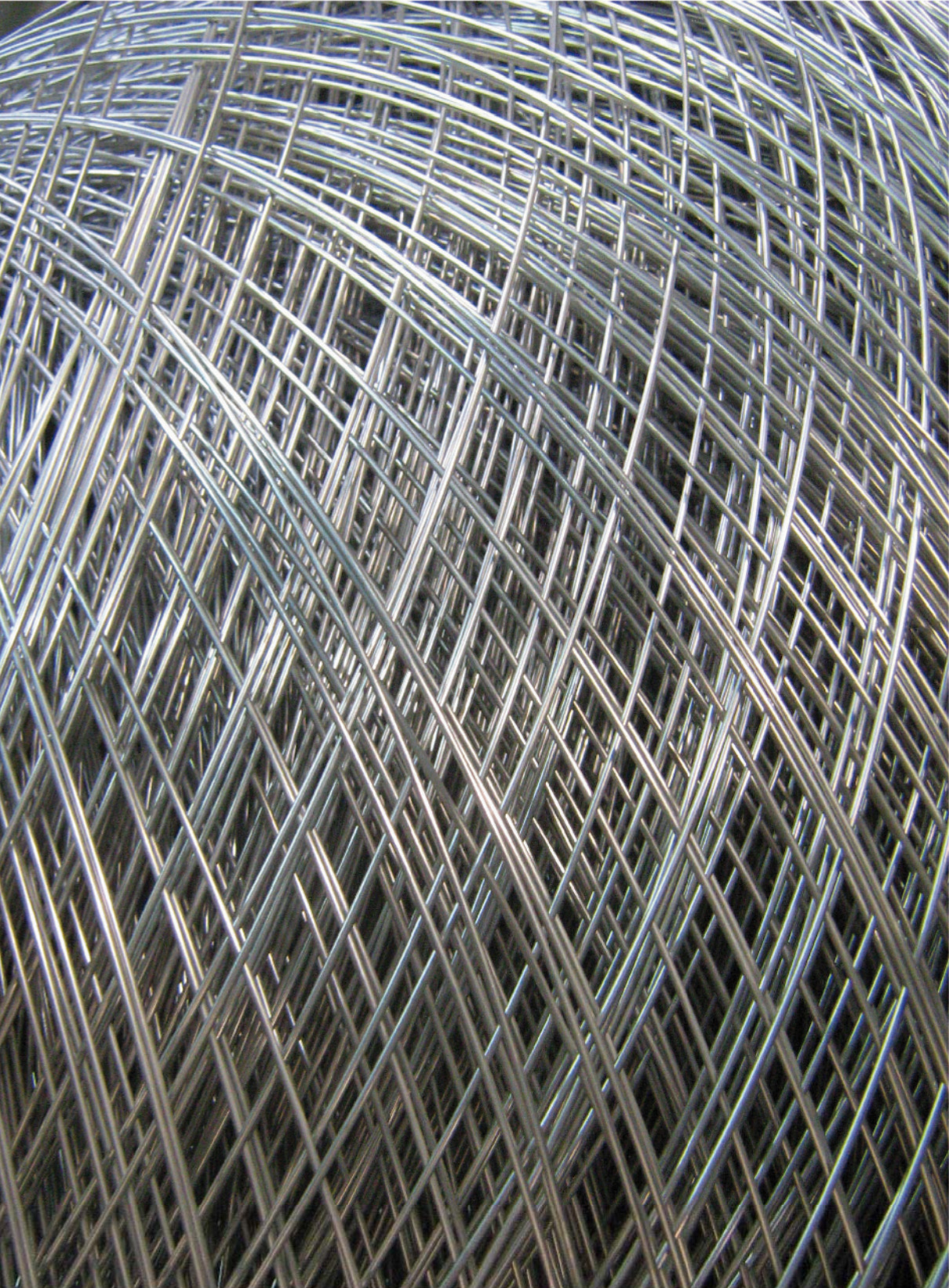


# **KHK STAINLESS**

A Division of KHK Scaffolding & Formwork LLC



**UNITED ARAB EMIRATES**

# COMPANY PROFILE

KHK Scaffolding & Formwork LLC, a Taurani Holdings Group company is an ISO 9001:2008 company established in 1991 and is part of US\$ 1 Billion, KHK Group. With their manufacturing facilities that include Steel Pipes and tubes, Scaffolding & Formworks, Precision Engineering Castings, Aluminium Extrusion etc., spread across the UAE and with offices in USA, Canada, UK and Australia, the group has emerged as one of the top industrial products manufacturing Companies in UAE, with a distinct Global vision. KHK manufacturing facilities are built on a plot measuring over 60,000 Square Meters & employ a workforce of over 1000.

In the year 2001, KHK Scaffolding & Formwork LLC set up ultra-modern facilities for manufacturing of Stainless Steel Bright Bars in AJMAN (20 miles from DUBAI) with a capacity of 500MT/month. In 2007 as a part of our expansion drive in Stainless Steel the company set up a Wire division with the purchase of new equipment from leading machine manufactures.

Superbly located between the America and the Far East, Ajman is an ideal hub for global world trade. It has smooth access to three major fully equipped ports each within 30 minutes of driving distance. A fourth port Jebel Ali, the world's largest man-made port is an hour away.

An extremely efficient international road network connects Ajman to neighboring countries and beyond to Europe.

Together, it all adds up to an unrivalled land and sea transportation network for getting our goods to markets worldwide.

KHK benefits from a number of competitive advantages, including cheap energy, an economical wage structure, easy access to a skilled work force, total exemption from all import and export duties, world class infrastructure, absence of any personal or corporate tax.

These advantages make it possible for us to offer our customers the most competitive prices while maintaining the highest standards in quality, delivery & service.

## FACILITIES

**KHK Stainless Steel Division** is equipped with the latest technology from world class leaders in Combined Drawing : Schumag of Aachen, Germany and Danieli of Italy. KHK's facilities also include state of the art machinery for wire drawing.

KHK's Production, Quality Assurance and Marketing team bring with them years of experience in Stainless Steel Bright Bars & Wires and the necessary qualification and knowledge of the quality parameters in different geographical markets.

**IT IS OUR POLICY, TO PROVIDE OUR CUSTOMERS WITH QUALITY PRODUCTS AND A LEVEL OF SERVICE THAT EXCEEDS THEIR EXPECTATIONS**

*A TAURANI HOLDINGS GROUP COMPANY*

# STAINLESS STEEL BRIGHT BARS



## PRODUCT RANGE

Product	Size Range	Tolerance	Length
Round Bar Cold Drawn Polished	3.00mm - 25.40mm 1/8" to 1"	h9 ASTM A484	2.5 to 6.0 Mtr +/-25mm 8' to 20' +/- 1"
Round Bar Cold Drawn & Centreless Ground	5.00mm - 25.40mm 3/16" to 1"	h8 & h9 ASTM A484 +/-0.0005"	2.5 to 6.0 Mtr +/-25mm 8' to 20' +/- 1"
Hexagonal Bar Cold Drawn	5.00mm - 19.05mm 3/16" to 3/4"	h11 & h12 ASTM A484	2.5 to 6.0 Mtr +/-25mm 8' to 20' +/- 1"
Square Bar Cold Drawn	5.00mm - 19.05mm 3/16" to 3/4"	h11 & h12 ASTM A484	2.5 to 6.0 Mtr +/-25mm 8' to 20' +/- 1"

# STAINLESS STEEL WIRES



- ◆ Size range :  
ø 1.50 mm to 11.32 mm
- ◆ (ø 0.059" to 0.446")

## TYPE OF WIRES

EPQ Wires – Mirror Bright

1/8Hard, 1/4Hard & BBC – (Surface on demand)

1/2Hard – (Surface on demand)

3/4Hard – Powder Drawn

Spring Hard (Full Hard) Wires as per BS EN 10270-3 or  
ASTM A313 – Powder Drawn

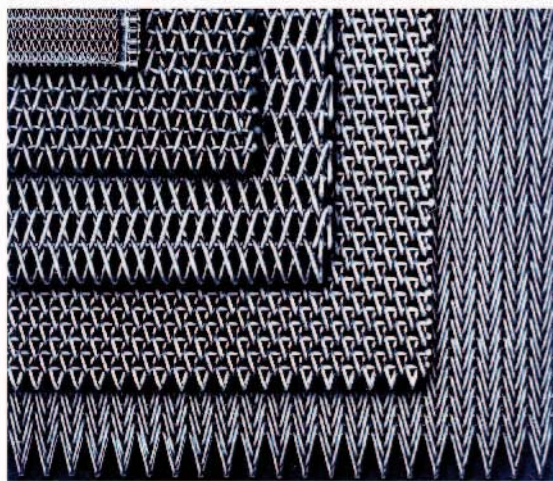
Soft Annealed Wires (CDA) – Clean / Matte

Bright Annealed - Clean / Bright

CHQ Wires - (Surface on demand)

# STAINLESS STEEL WIRE SPECIFICATION

Supply Condition	Surface Condition	Tensile Strength (N/mm <sup>2</sup> )	Coil Weight (LBS) max
EPQ	Mirror Bright	700 - 850 (100 - 120 KSI)	1200 (OR) as per request
1/8Hard, 1/4Hard & BBC	Surface on demand	700 - 900 (100 - 130 KSI)	1200 (OR) as per request
1/2Hard	Surface on demand	900 - 1200 (130 - 175 KSI)	1200 (OR) as per request
3/4Hard	Powder Drawn / Matte	1200 - 1400 (175 - 200 KSI)	1200 (OR) as per request
Spring Hard	Powder Drawn / Matte	As per ASTM A 313 or BS EN 10270 - 3 JIS G 4314 WPA & WPB	1200 (OR) as per request
Soft Annealed	Matte / Clean	600 - 700 (85 - 100 KSI)	1200 (OR) as per request
Bright Annealed	Mirror Bright	550 - 700 (80 - 100 KSI)	1200 (OR) as per request



STAINLESS STEEL CHEMICAL COMPOSITION

GRADE	C	Mn	P	S	Si	Cr	Ni	Mo	Others	Equivalent W.NiC
	Max %	Max. %	Max. %	Max. %	Max. %	Max. %	Max. %	Max. %	Max. %	
AIISI										
<b>AUSTENITIC STEELS</b>										
201	0.15	5.50-7.50	0.060	0.030	1.0	16.0-18.0	3.5-6.0	-	-	-
201Cu	0.15	6.50-9.00	0.060	0.030	1.0	15.5-17.50	1.5-3.5	1.0	Cu-2.0/4.0	-
302	0.15	2.00	0.045	0.030	1.0	17.0-19.0	8.0-10.0	-	-	1.4310
302HQ	0.03	2.00	0.040	0.030	0.75	18.0-20.0	8.0-10.0	-	Cu-3.0/4.0	1.4567
303	0.15	2.00	0.200	0.15-0.35	1.0	17.0-19.0	8.0-10.0	-	-	1.4305
304	0.08	2.00	0.045	0.030	1.00	18.0-20.0	8.0-10.5	-	-	1.4301
304L	0.03	2.00	0.045	0.030	1.00	18.0-20.0	8.0-12.0	-	-	1.4306
ER 304L	0.03	2.00	0.030	0.030	0.30-0.65	18.0-20.0	9.0-11.0	-	-	-
304HC	0.08	2.00	0.040	0.030	0.75	18.0-20.0	8.0-10.0	-	Cu-2.0/3.0	-
305	0.12	2.00	0.045	0.030	1.0	17.0-19.0	10.5-13.0	-	-	1.4303
ER 308	0.08	1.0-2.5	0.030	0.030	0.30-0.65	19.0-22.0	9.0-11.0	0.75	-	-
ER 308L	0.03	1.0-2.5	0.030	0.030	0.30-0.65	19.0-22.0	9.5-11.0	-	-	1.4331
ER 309	0.12	1.0-2.5	0.030	0.030	0.30-0.65	23.0-25.0	12.0-14.0	-	-	-
ER 309L	0.03	1.0-2.5	0.030	0.030	0.30-0.65	23.0-25.0	12.0-14.0	-	-	1.4332
3105	0.08	2.00	0.045	0.030	1.5	24.0-26.0	19.0-22.0	-	-	1.4845
ER 310	0.08-0.15	1.0-2.5	0.030	0.030	0.30-0.65	25.0-28.0	20.0-22.5	-	-	1.4842
ER 312	0.15	1.0-2.5	0.030	0.030	0.30-0.65	28.0-32.0	8.0-10.5	-	-	1.4337
314	0.25	2.00	0.045	0.030	1.50-3.00	23.0-26.0	19.0-22.0	-	-	1.4841
316	0.08	2.00	0.045	0.030	1.00	16.0-18.0	10.0-14.0	2-3.0	-	1.4401
316L	0.03	2.00	0.045	0.030	1.00	16.0-18.0	10.0-14.0	2-3.0	-	1.4404
316TI	0.08	2.00	0.045	0.030	1.00	16.0-18.0	10.0-14.0	2-3.0	Ti 5xC%-0.80	1.4571
ER 316	0.08	1.0-2.5	0.030	0.030	0.30-0.65	18.0-20.0	11.0-14.0	2-3.0	-	-
ER 316L	0.03	1.0-2.5	0.030	0.030	0.30-0.65	18.0-20.0	11.0-14.0	2-3.0	-	1.4430
321	0.08	2.00	0.045	0.030	1.00	17.0-19.0	9.0-12.0	-	Ti 5xC%-0.80	1.4541
<b>MARTENSITIC STEELS</b>										
410	0.15	1.00	0.040	0.030	1.00	11.5-13.5	1.00Max.	-	-	1.4006
420	0.15Min	1.00	0.040	0.030	1.00	12.0-14.0	1.00Max.	-	-	1.4034
416	0.15	1.25	0.060	0.15 min	1.00	12.0-14.0	-	-	-	-
<b>FERRITIC STEELS</b>										
430	0.12	1.00	0.040	0.030	1.00	14.0-18.0	0.60Max.	-	-	1.4016
430L	0.03	1.00	0.040	0.030	0.75	14.0-18.0	0.60Max.	1.00	-	-
430F	0.12	1.25	0.060	0.15 min	1.00	16.0-18.0	-	-	-	1.4104
434	0.12	1.00	0.040	0.030	1.00	15.0-18.0	-	0.75-1.25	-	-
434A	0.03	1.00	0.04	0.020	1.00	15.0-18.0	-	0.30	-	-

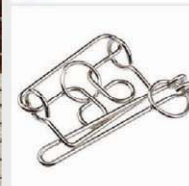
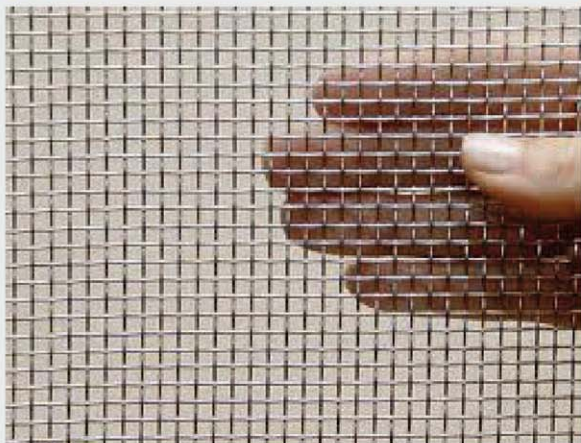
Please specify if any other grade or different chemistry required

# PRODUCT APPLICATIONS



KHK Stainless Steel Bright Bar & Wires are used in valve fittings, flanges, fasteners, kitchenwares, welding electrodes, springs, conveyor belts, re-draw wires and machine components in a variety of industries that include Aerospace, Automotive, Electronics, Chemical Processing, Food & Beverage, Medical & Pharmaceutical, Power generation, Paper & Pulp machineries, Textile and numerous consumer products.

# PRODUCT FEATURES



We at KHK Stainless by virtue of our ultra modern facilities, care in vendor selection (buying raw material only from leading Mills in Taiwan, Europe & India), managerial expertise and a skilled workforce, guarantee to deliver superior product features time after time, every time. These include, superior Ra/RMS values, tighter length, diameter, out-of-roundness and straightness tolerances, all of which are controlled in narrow bands within the prescribed ASTM, EN standards. Our EPQ, CHQ & Spring wires are accepted world-wide meeting specific requirements of customers.

We have worked closely with our raw material suppliers in fine tuning individual product chemistry to satisfy respective customer needs and end-users particularly those of the precision machined part manufacturers throughout the world.

# PLANT & MACHINERY

Combined Bar Drawing & Polishing Machines (suitable for 3.0 - 10mm & 8.0 – 25.4mm) : Danieli & Schumag

Centreless Grinders : Cincinnati & Schumag

Reeling Machines

Wire Drawing Machines (Multiple Passes )

Bull Blockers & Singles Blockers

Strand Annealing Furnace for SS Wires

Take-up un-coilers (Pattern-laid)





# PACKING



## SS BRIGHT BARS

Bright Bars are packed in bundles of 500/1000Kgs (1000/2000lbs) strapped at four places & wrapped with transparent LDPE sheets. Special packing is carried out on customers' request. This includes wooden boxes (as per ISPM-15 regulation) as also individually wrapping each bar, if requested

## SS WIRES

Wires are packed in max 600kg (1300lbs) coils strapped with plastic strap at four places & placed on M.S. Pipe Carriers/Stems with protective film to avoid metal to metal contact. Loaded Carriers/Stems are wrapped with thin stretch film. Coils are packed in Plywood Boxes on customers request. Higher Coil Weight above 600kg (1300lbs) upto 900kg (2000lbs) can be provided upon customers request.



# DELIVERY

Deliveries are made in containers 20' or 40' standard (box type), open-top or flat-rack to suit the customers off-loading arrangements and product length.

Ajman benefits from an efficient road network and four major international shipping ports with world-class facilities and quick and hassle-free processing. All these add up to provide an exceptional infrastructure for getting our products to all parts of world, on time, every time.

# QUALITY



All processes are based strictly on the ISO 9001 : 2008 Quality Management System, complete traceability is maintained of every pound, every shipment, every time.

KHK Stainless have a fully equipped laboratory with modern testing facilities to take care of all metallurgical, mechanical & chemical evaluation.

## These include:

- ◇ Spectrometer for chemical analysis.
- ◇ Universal Testing Machine for Tensile, Yield, Proof, E% & %RA values.
- ◇ Hardness Tester.
- ◇ Metallurgical Microscope for grain size & structure.
- ◇ Surface Roughness Tester for Ra / RMS values.
- ◇ Grade Testing Kit for typical grades.
- ◇ Three point micrometer for out-of-roundness testing.
- ◇ Digital Micrometers for measuring diameters upto four decimals.



# MARKETS



## HEAD OFFICE

Post Box # 2701, New Industrial Area, AJMAN, United Arab Emirates

Tel: +971 6 7439013, Fax: +971 6 7439017

Contact Person: Shyam Nair, Mobile: +971 50 4825128, shyamnair@khk-scaffolding.com  
www.khk-stainless.com, www.khk-scaffolding.com

## SALES OFFICES

### **North America :**

#### **A-Val Metal Resources, Inc.**

5925, Airport Road, Suite 200,  
Mississauga, Ontario, L4V 1W1, Canada  
Tel: +1 905 4056245  
Fax: +1 905 6728630  
Contact Person : Rakesh Hasija  
Mobile: +1 4166024616  
hasija@khk-scaffolding.com

### **United Kingdom:**

#### **Brisko Metal Resources**

Unit# 16, Kingsmill Business Park  
Chapel Mill Lane,  
Kingston Upon Thames,  
Surrey KT1 3GZ, United Kingdom  
Tel: +44 208 9746923, Fax: +44 208 5496850  
Contact Person : Lalit Premchandani  
Mobile: +447971401471  
lalit@brisko.co.uk

### **Prime Metal Corp-USA**

Address:  
653 State Route 52  
Walden, New York 12586  
United State of America

Tel: +845 778 4545  
Fax: +845 778 4218  
peter@primemetalcorpusa.com

### **Winston Scaffolding Pvt. Ltd.**

Address:  
44-46 Gould Street,  
South Strathfield  
NSW 2136, Australia.

Tel: +61 - 99758 8700  
Fax: +61 - 99758 7263  
rafael@winstonscaffolding.com.au



## **KHK STAINLESS**

**Manufacturers of Stainless Steel Bright Bars & Wires**

**Factory Address:**

**KHK Scaffolding & Formwork LLC**

Plot # 123, New Industrial Area, Post Box # 2701, AJMAN, United Arab Emirates

Tel: +971 6 7439013, Fax: +971 6 7439017

Web: [www.khk-stainless.com](http://www.khk-stainless.com), [www.khk-scaffolding.com](http://www.khk-scaffolding.com)