



KHK STEEL

world of steel

Tatung Holdings Group Company

BARS
STAINLESS
STEEL
& WIRES

COMPANY PROFILE

KHK Steel Industries LLC (KHK Steel) is part of the prestigious UAE based Taurani Holdings Group, who have enjoyed a growing presence in the UAE and global markets over the last 30 years. KHK's stainless steel business was set up in 2001 as a division of KHK Scaffolding & Formwork LLC. The tremendous growth of our stainless steel business led to this division being spun off as a separate Company (KHK Steel Industries LLC), and the setting up of a new, highly equipped 12,000 square meter state of the art facility. This facility is located in the Emirate of Umm Al Quwain, about a 45 minutes' drive from Dubai, and includes the finest machinery from Germany, Italy, Taiwan, India and other parts of the world. This facility has the capacity to produce 20,000 MT per year of the highest quality stainless steel bar and wire.

Location

The UAE is superbly located between The Americas and The Far East and is an ideal hub for global trade.

The UAE prides itself on its excellent infrastructure, an extensive and well developed road network that connects us to a number of neighbouring countries and onward to Europe

KHK Steel has four major ports within a two hour drive from its premises. This includes Jebel Ali, the largest man made port in the world.

KHK Steel benefits from a number of other competitive advantages that UAE provides. This includes low taxes and duties, cheap and abundant energy, easy access to massive ports that all major shipping lines call on, and access to a large pool of skilled and competitively priced labour from neighbouring countries.

KHK Steel by virtue of their location have access to all major wire rod sources in Europe, Taiwan, India, Korea, Japan...

This ultra-modern logistics framework including an unrivalled air, sea and road connectivity to all parts of the world adds to our ability to ship our products at competitive prices to all parts of the world on time, every time.



PLANT & MACHINERY

Combined Bar Drawing Machine – Danieli Italy, Schumag Aachen and Sheng Chyeon Taiwan

Centreless Grinding Machines- Cincinnati Inc. USA, Sheng Cheyan Taiwan, Schumag Germany

Wire Drawing Machine- Straight Line and Multi Block Wire Drawing Machines

Single Blocker- Bull Blocker and Inverted Vertical Drum Machines

Strand Annealing Furnace

Euro Coiler/ Spooler

Straightening and Cutting Machine



STAINLESS STEEL BRIGHT BARS

PRODUCT RANGE

Product	Size Range	Tolerance	Length	Value Addition
Round Bars (CD/PO)	3.00 – 30.00mm (1/8" to 1-3/16")	ASTM A484 , or as per requirement +/- 0.0005"	2.0 to 7.0 Mtrs (tolerance of +/- 5mm)	Chamfering of sizes 9.52mm and above
Round Bars (CG/PO)	5.00 – 30.00mm (3/16" to 1-3/16")	ASTM A484 ,or as per requirement +/- 0.0005"	2.0 to 7.0 Mtrs (tolerance of +/- 5mm)	Chamfering of sizes 9.52mm and above
Square Bars	5.00 – 25.40 mm (3/16" to 1")	ASTM A484 , or as per requirement	2.0 to 7.0 Mtrs (tolerance of +/- 5mm)	
Hex Bars	6.00 – 25.40mm (3/16" to 1")	ASTM A484 , or as per requirement	2.0 to 7.0 Mtrs (tolerance of +/- 5mm)	
Threaded Bars (Stud Bars)	6.00 – 20.00mm (1/4" to 3/4")	As per requirement	2.0 to 4.0 Mtrs (tolerance +/- 5mm)	



STAINLESS STEEL WIRES

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 - Coils or Reels

Soft Annealed Wires (CDA) - Clean / Matte

Bright Annealed - Clean / Bright

CHQ Wires - (Surface on demand)

Euro Coils (1000kg Coils)

◆ **Size range :**

Ø 0.80mm to 12.00mm

◆ (Ø 0.032" to 0.470")



STAINLESS STEEL WIRE SPECIFICATIONS

Product	Size Range	Tolerance	Surface	Coil Weight	Tensile Req.	Grades
1/8 Hard	0.8 – 11.80mm	Customised according to requirement	Matte Finish/ Powder Drawn or Oil Drawn/ Bright	300kg max (for 0.8 to 1.2mm) 600kg max (for 1.20-3.00mm) 800kg max (for 3.00mm & above)	650 – 750 N/mm ² or as per requirement	304/316/303/204Cu/316Ti/314 etc.
1/4 Hard	0.8 – 11.80mm	Customised according to requirement	Matte Finish/ Powder Drawn or Oil Drawn/ Bright	300kg max (for 0.8 to 1.2mm) 600kg max (for 1.20-3.00mm) 800kg max (for 3.00mm & above)	700 – 900 N/mm ² or as per requirement	304/316/303/204Cu/316Ti/314 etc.
1/2 Hard	0.8 – 11.80mm	Customised according to requirement	Matte Finish/ Powder Drawn or Oil Drawn/ Bright	300kg max (for 0.8 to 1.2mm) 600kg max (for 1.20-3.00mm) 800kg max (for 3.00mm & above)	900 – 1200 N/mm ² or as per requirement	304/316/303/204Cu/316Ti/314 etc.
3/4 Hard	0.8 – 10.00mm	Customised according to requirement	Matte Finish/ Powder Drawn	300kg max (for 0.8 to 1.2mm) 500kg max (for 1.20-10.00mm)	1100 – 1400 N/mm ²² or as per requirement	304/316/204Cu/316Ti/314 etc.
Spring Hard(reels)	0.8 – 2.00mm	Customised according to requirement	Powder Drawn	450 Kg/reels	As per EN 10270-3/ ASTM A313	304/302/316/204Cu etc.
Spring Hard (coils)	0.8 – 10.00mm	Customised according to requirement	Powder Drawn	300kg max (for 0.8 to 1.2mm) 500kg max (for 1.20-10.00mm)	As per EN 10270-3/ ASTM A313	304/302/316/204Cu etc.
Soft Annealed	0.8 – 8.00mm	Customised according to requirement	Matte Finish	600kg max	600 – 700 N/mm ² or as per requirement	304/316/303/204Cu/316Ti/314 etc.
Bright Annealed	0.8 – 8.00mm	Customised according to requirement	Bright Finish	600kg max	550 – 700 N/mm ² or as per requirement	304/316/303/204Cu/316Ti/314 etc.
EPQ	0.8 – 8.00mm	Customised according to requirement	Mirror Bright finish	300kg max (for 0.8 to 1.2mm) 600kg max (for 1.20-3.00mm) 800kg max (for 3.00mm & above)	700 – 850 N/mm ² or as per requirement	304/316/303/204Cu/316Ti/314 etc.
Euro Coils	3.00 – 12.00mm	Customised according to requirement	Oil Drawn/ Bright	800 – 1200 kg approx.	-	304/316/303/204Cu/316Ti/314 etc.
Cold Heading Wires	0.8 to 12.00mm	Customised according to requirement	Powder Drawn or Oil Drawn	300kg max (for 0.8 to 1.2mm) 600kg max (for 1.20-3.00mm) 800kg max (for 3.00mm & above)	450 – 600N/mm ² or as per requirement	302HQ/304HC/304Cu/316Cu/409 etc.

STAINLESS STEEL CHEMICAL COMPOSITION

GRADE	C	Mn	P	S	Si	Cr	Ni	Mo	Others	Equivalent
AISI	Max. %	Max. %	Max. %	Max. %	Max. %	%	%	%	%	%
AUSTENITIC STEELS										
201	0.15	5.50-7.50	0.060	0.030	1.0	16.0-18.0	3.5-6.0	-	-	-
204Cu	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	23.0-5.0	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	-	-	1.4352
310S	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	10.40-14.0	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
MARTENISTIC STEELS										
410	0.15	1.00	0.040	0.030	1.00	11.5-13.5	1.00 Max	-	-	1.4006
420	0.15 Min	1.00	0.040	0.030	1.00	12.0-14.0	1.00 Max	-	-	1.4034
416	0.13	1.25	0.060	0.15 min	1.00	12.0-14.0	-	-	-	-
FERRITIC STEELS										
430	0.12	1.00	0.040	0.030	1.00	14.0-18.0	0.60 Max	-	-	1.4016
430L	0.03	1.00	0.040	0.030	0.75	14.0-18.0	0.60 Max	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

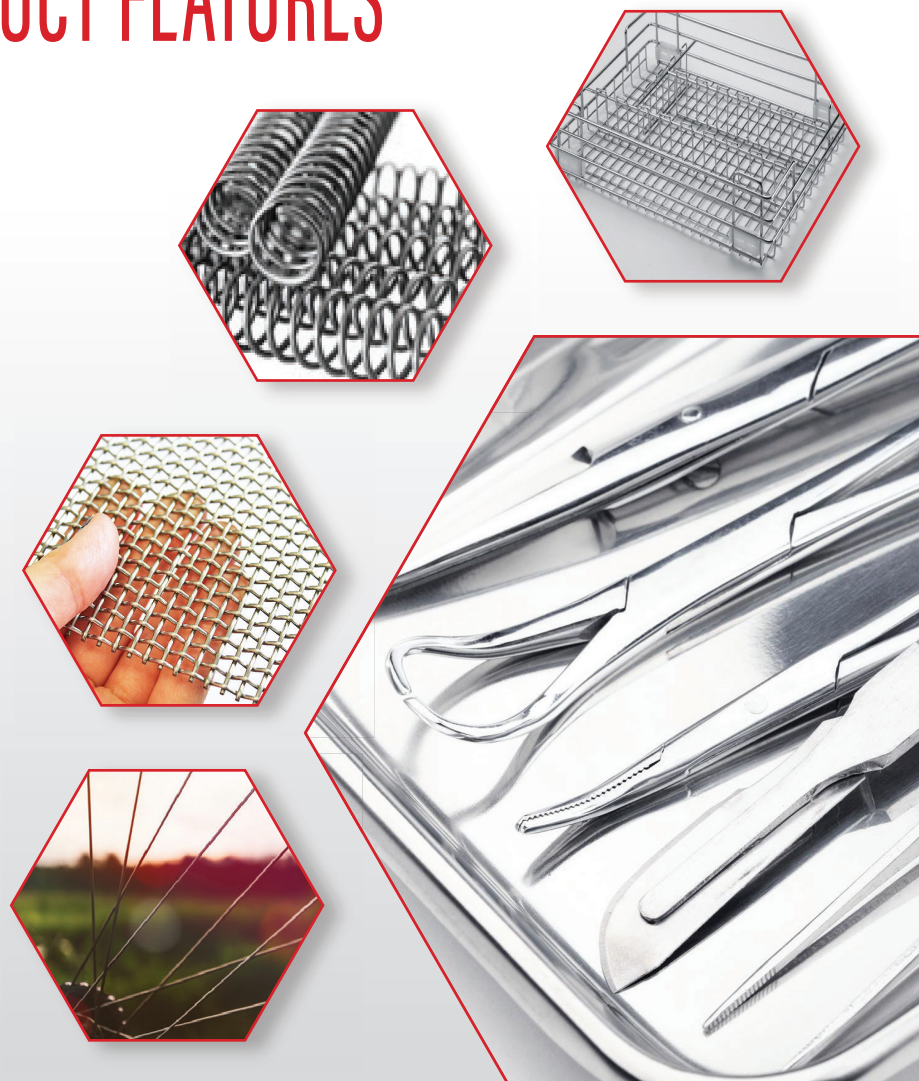


KHK Steel Bright Bar & Wires are used in valve fittings, flanges, fasteners, kitchenwares, welding electrodes, springs, conveyor belts, re-draw wires and machine components in a variety of industries that include Aerospace, Automotive, Electronics, Chemical Processing, Food & Beverage, Medical & Pharmaceutical,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

PRODUCT FEATURES

We at KHK Steel, 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.

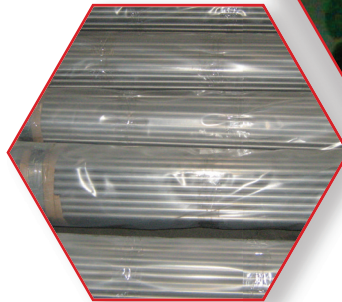
We have worked closely with our raw material suppliers in fine tuning individual product chemistries to satisfy respective customer needs and end-users particularly those of the precision machined part manufacturers throughout the world.



PACKING

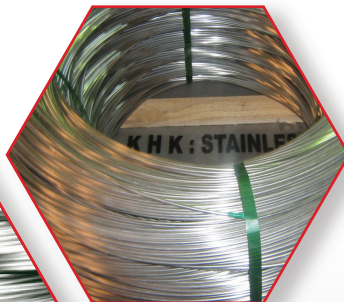
SS BRIGHT BARS

Bright Bars are packed in bundles of 500/1,000Kgs (1,000/2,000lbs) strapped at four places & wrapped with transparent LDPF 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 made in Max. 600 Kg (1,300lbs) coils strapped with plastic strap at four places & placed on M.S. PipeCarriers/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 customer's request. Higher Coil Weight above 600kg (1,300lbs) upto 900kg (2,000lbs) can be provided upon customers request.



DELIVERY

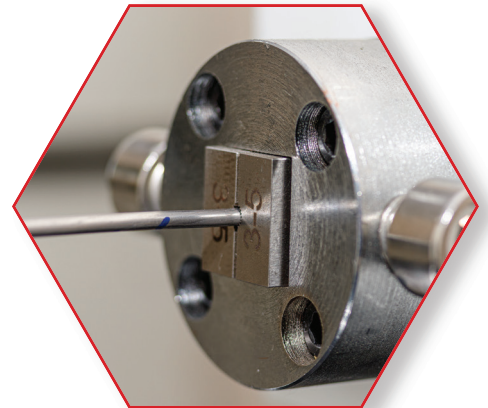
Deliveries are made in containers 20' or 40' standard (box type), pen-top or flat-rack to suit the customers off-loading arrangements and product length. UAQ benefits from an efficient road network and four major international shipping ports with world-class facilities and quick and hassle-free processing. 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 on the ISO 9001: 2015 Quality Management System, complete traceability is maintained at all levels for all the materials that are being produced in the Factory

Quality Inspections and Instruments

- ◇ Spectrometer for Chemical Analysis
- ◇ Universal Testing Machines for Tensile, Yield, Proof, E% & %RA values
- ◇ Hardness Tester
- ◇ Metallurgical Microscope for grain size and structure
- ◇ Surface Roughness Testing Machine for checking Ra and RMS values
- ◇ Grade Testing Kit for all grades
- ◇ Three point micrometers for out of roundness testing
- ◇ Digital Micrometer for Measuring Diameters upto four decimals
- ◇ Bend Test Machine
- ◇ Wrap Test Machine
- ◇ Torsion Test Machine
- ◇ NDT (Eddy Current Detector)
- ◇ Slip Gauge Set





OUR SALES OFFICES

North America:

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