Helping manufacturers across the globe achieve sustainable leaner manufacturing processes

Titanium Alloys

COIL, FOIL, SHEET & WIRE

ALPHA ALLOYS ALPHA/BETA ALLOYS BETA ALLOYS

> Fast Turnaround Processing



Cut to Length

> Low Width Thickness Ratio 3:1 unique to the industry (normal minimum is 8:1)

Over 75 years Experience

Knight Group

Visit our websites: Main: www.knight-group.co.uk Offcuts: www.ksmdirect.co.uk

www.pmdirect.be

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Knight Strip Metals Ltd

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Precision Metals EU

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Information

O2 Quality & Approvals









About Us

The Knight Group is a family owned business that has built a reputation for providing the highest quality products and solutions to global manufacturers since 1940. We are now one of the largest Precision Strip Stockholding and Processing facilities in Europe.

Comprised of Knight Strip Metals Ltd (KSM), with production facilities in the UK and Precision Metals EU (PM) in Belgium, the Knight Group is a multi-metal stockist and processor, providing coil, strip and wire across 6 continents.

Our reputation for quality, innovation and reliability, has led to us being the favoured supplier across a wide range of sectors and our continued growth. Whilst we have an impressive existing operation, our commitment to investing in further processing capabilities, expanding our product ranges and developing the expertise of our team, ensures the continued expansion of the Knight Group.

We offer a comprehensive range of precision strip and wire, stocking one of the biggest ranges in Europe, including: Stainless Steel, Nickel Alloys, Titanium Alloys, Aluminium Alloys, Copper Alloys, Mild Steel and Clad and Plated Metals. We have established exclusive agreements with a number of mills to offer specialist and bespoke materials.

Our Key Benefits

Our People

At the heart of any business is people. At the Knight Group we have developed a dedicated team of people with a valued wealth of knowledge and experience within the metals industry. No matter what your metal needs are, our team will provide you with individual customer support and the best customer experience in the industry.

Products

We offer a comprehensive range of precision strip and wire, stocking one of the biggest ranges in Europe. We maintain a stock 2500 individual items of the most popular materials, adapting to suit our customers production needs. With established exclusive agreements with a number of mills to offer specialist and bespoke material, we can source most materials including those outside of our standard range.

Quality

Being able to supply high quality materials, reliably and ethically sourced is key to our business and one of the reasons we are a favoured supplier of manufacturers across the globe. Our materials are fully traceable and Certificates of Conformity can be supplied on request or downloaded from our website.

Extensive Processing Capabilities

We provide bespoke processing services to help reduce our customers costs and manufacturing times. We can supply you with material cut and finished to your specifications and production ready delivered.

Competitive Pricing

We know two of the key factors in purchasing decisions are quality and cost. We have established partnerships with key mills across the globe, and as one of the largest suppliers in Europe, we can negotiate the best price for material, meaning you don't have to compromise quality for cost.

AVAILABLE AS FOIL, COIL, SHEET AND WIRE **STAINLESS STEEL ALLOYS TITANIUM ALLOYS NICKEL ALLOYS ALUMINIUM ALLOYS CLAD ALUMINIUM COPPER ALLOYS MILD STEEL** CLAD AND PLATED METALS

Global Sourcing and Distribution

Thanks to our global exports network of freight providers, you can choose from air, land or sea freight so you can have your material where you want, when you want. We deliver to over 61 countries around the globe and each year that number grows. We ha preferred carriers who can offer short lead times on most products and custom packing solutions to ensure your materials arri and on time, wherever in the world you need them.

"Expertise and Experience Combined"

Our ongoing successful partnerships can be attributed to the specialist knowledge and expertise and the ability to understand customers' materials problems and apply our resources to find the appropriate solution. We continually invest in our sales and purchasing teams, building upon their experience with ongoing training and product knowledge support.

Our focus on developing partnerships with both our customer and supplier base have led to reducing costs and maximising efficiency in both directions, without compromising on quality or lead times. Through working closely together, and using innovation, experience and expertise, allows us to tailor make solutions for your individual needs.

With a diverse global customer base, the Knight Group supply materials to manufacturers across multiple sectors including: Aerospace, Automotive, Construction, Cryogenic, Defence, Energy, Oil and Gas, Telecommunications, Photo and Laser Etching, Medical and Pharmaceutical, Chemical and Precision Engineering.

Our Key Sectors Automotive Aerospace





Petrochemical, Oil and Gas





Chemical and Photo Etch



Precision Stamping & Springs



Renewable Energy



Medical

Our History

ESTABLISHED

E.A. Knight &

Sons, started

as family metals

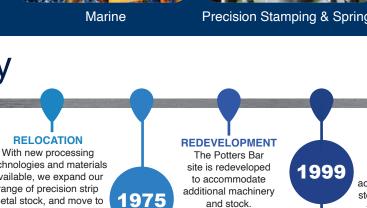
business in North

London, supplying

manufactures

across the UK.

1940



EXPANSION Our Processing and

warehouse facility is relocated to Saltley, accommodating additional stock lines and machinery and our growing team.

Today

EXPANSION Today we supply over 61 countries. As one of the largest independent Precision Strip and Wire Stock holding and Processing suppliers in Europe, we continue to invest in the skills and expertise of our team, extending out stock range and our facilities.

technologies and materials 1958 available, we expand our range of precision strip metal stock, and move to a purpose built combined warehouse processing **EXPANSION** and offices facility in

Potters Bar.

1971

Adapting to the growing metal needs of an expanding customer base, the business is relocated to a larger, combined office, warehouse and processing facility in Potters Bar,

Hertfordshire

EXPANSION Precision Metals EU was opened to provide further support and stock holding facilities to our growing European customer base.

and stock.

1985

ACQUISITION Knight Group acquired

slitting machine manufacturer and metals processing company. Charles Harbage. The increase in capability makes the Knight Group one of 2000 the largest independent precision strip processors in Europe



Approvals



Customers purchasing decisions are not driven solely by price, but factor in quality, reliability and increasingly, ethical and environmental concerns. With growing pressures for transparency of practices, the Knight Group are proud to hold multiple approvals and accreditations, granted by national and international authorities, sector manufacturers and agencies. We continue to expand our range of approvals and accreditations in line with the needs of customers.

Our memberships of a number of key institutions, including the British Stainless Steel Association (BSSA), offer further assurance of our commitment to promoting manufacturing, whilst working to the highest standards of quality and integrity. All of our approvals are available to view and download from our website www.knight-group.co.uk

We hold a number of Approvals Including:

British Standard Approvals

- BS EN ISO 9001, 9120 No. FM 02114
- BS EN ISO 9001 No. FM 611455

Customer Approvals

- Rolls-Royce: Approval No. 01679
- Rolls-Royce Deutchland No. 118990 / 02
- Airbus UK: Approval No.20099 and 228990
- BAE Systems Regional Aircraft: Approval No. RALOA/00254/2
- BAE Systems: Approval No. BAE/AG/20384/MAA Airbus UK: Approval No.20099 and 228990
- Westland Helicopters: Approval No. SQA / V00246
- Safran DK6000
- Hawker Beachcraft Approval HBIFSAS/PART2/0595
- UTC Aerospace Systems/ HS Marston Aerospace Limited Approval Certificate AS 132
- Spirit Aero Approval Certificate No: SPIRIT1298
- Meggitt Certificate: MQAG/2012/MCSD/MCSC/D/115

Specialist Accreditations

- EcoVadis Silver Award
- Forestry Commission: Wood Packaging Certificate Number FC1051

For the most up to date list of our approvals and accreditations, please see our website for details.

Quality





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Our key objective is to provide our customers complete assurance and satisfaction in the quality of our products and services. We are the favoured supplier of manufacturers across the globe, owing to the reliable quality of the products and services our customers receive and their continued confidence that our competitive cost does not compromise quality.

Our companies work to a Quality Management System, as defined in ISO 9001/9120, and approved by the BSI. We work in partnership with the BSI, who carry out regular audits to ensure compliance with these standards and that we are operating with efficiency and accountability at all times.

Working within the framework of ISO 9001 and ISO 9120, our quality system meets or exceeds the criteria. We review our processes regularly to ensure an efficient and robust process is in place at all times, with necessary support and resources available. All of the Knight Group employees receive regular training to maintain familiarity and adherence to our Quality Management System. The commitment from our employees ensures the supply and processing of all material, meets the standards set. As a result, we are consistently able to comply with customers' demands, delivering quality products and processing.

To facilitate fast turnaround times, we offer in-house tensile, hardness and chemical analysis testing. We can also supply fully traceable records for our materials by request and Certificates of Conformity are issued as standard when materials are supplied. For further assurance of our integrity and longevity, we are long standing members of a number of institutions including the British Stainless Steel Association (BSSA), Institute of Spring Technology (IST), Midlands Aerospace Association (MAA) and the Photo Chemical Machining Institute (PCMI).

The Knight Group at all times complies with statutory and regulatory requirements. Additionally, we conduct our business in strict compliance with all applicable domestic and international legal standards. We strive to ensure business ethics are practiced with particular emphasis on free competition and rejection of any form of corruption.

Titanium

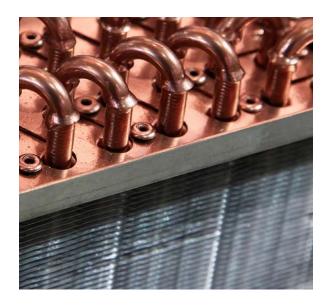
Titanium has been a known element for many years but it is only in the last 50 years or so that it has gained importance. The rapid growth of the Titanium industry has been due to the versatility of the metal and its alloys and their outstanding strength to weight ratios. The mechanical properties of commercially pure Titanium grades vary considerably with small changes in oxygen, nitrogen, hydrogen and carbon. The properties of high strength, light weight and exceptional corrosion resistance have led to traditional applications in chemical process plant, aerospace structures, jet engine components and medical implants and prostheses, nuclear power plants, food processing plants, oil refinery heat exchangers. Commercially Pure Titanium grades have outstanding resistance to seawater and salt-water attack and are used in desalination plant, seawater cooled condensers and other marine related applications.

Titanium exists in two crystallographic forms and its alloys can be classified into three categories:

- alpha
- alpha/beta
- beta alloys

TITANIUM STOCK RANGE									
	COIL STOCK		WIRE STOCK RANGE						
TYPE	Thickness (mm) Width (mm)		Round	Shaped					
ALPHA									
Grade 1									
Grade 2	0.005 0.00	3 - 1000	0.1 – 10.00 mm dia	Upto 45 mm2 area					
Grade 3	0.025 - 3.00 mm								
Grade 4									
		ALPHA/B	ETA						
Ti 6Al-4V (Grade 5)	0.025 - 3.00 mm	3 - 1000	0.1 – 10.00 mm dia	Upto 45 mm2 area					
Ti 3Al 2.5V (Grade 9)	0.025 - 3.00 mm	3 - 1000	0.1 – 10.00 mm dia	Upto 45 mm2 area					
BETA									
21S	0.025 - 3.00 mm	3 - 1000	0.1 – 10.00 mm dia	Upto 45 mm2 area					
Other specifications can be supplied upon request. Please contact us with your requirements.									





AVAILABLE GRADES

Alpha Grade 1, Grade 2, Grade 3, Grade 4

Alpha/beta Grade 5 (Ti 6Al-4V), Grade 9 (Ti 3Al 2.5V)

> Beta 21S

Pure Titanium has an alpha structure but transforms to a beta form when heated above 882°C. The addition of alloying elements influences this transformation and many alloys have been developed where beta phase is retained at room temperature, thus giving a material containing alpha and beta phases. The relative amounts of these phases give rise to variations in properties such as ductility, weldability and ease of forming Titanium alloy strip is used for demanding applications such as static and rotating gas turbine engine components. Some of the most critical and highly stressed civilian and military airframe parts are also made of Titanium alloy strip. Commercially pure, or un-alloyed Titanium strip has outstanding corrosion resistance making it the preferred material for many applications in chemical process industries.

Features

TITANIUM FEATURES									
ТҮРЕ	Key Feat	ures	Key Markets	Applications					
ALPHA									
Grade 1	Excellent corrosion resistance, maximum formability, limited strength								
Grade 2	Grade 2Very Good formability, improved strengthNot hardenable by heat treatment. Excellent weldabilityGrade 3Good formability and increased strength over Grades 1 and 2Excellent weldability		Chemical	Heat Exchangers, Condenser, Tubing, Valves,					
Grade 3		and Marine	Pumps, Banding						
Grade 4	Highest strength of commercially pure grades, but sufficient ductility for moderate forming.								
		ALPHA/BETA							
Grade 5 (Ti 6Al-4V)	High strength to weight r resistance, can be heat trea hardened by cold work,	ated, but can only be	Medical, Aerospace, Chemical, Marine, Oil and Gas	Aerospace structural components, Turbine blades, discs and rings, medical implants and devices, sports equipment					
Grade 9 (Ti 3Al 2.5V)	May be strengthened l Hardenable by heat treatme		Aerospace	Honeycomb material for aircraft, seamless tubing, mechanical fasteners					
BETA									
21S	Substantial strength to wei oxidation resistance, elevated and creep strength. Good weldability. Extremely resistan	d temperature strength cold formability and	Aerospace	Engine exhaust plug, nozzle assemblies.					



TITANIUM CHEMICAL PROPERTIES									
ТҮРЕ	TYPICAL CHEMICAL COMPOSITION %								
	С	N	0	Н	Fe	Ti	Others		
ALPHA									
Grade 1	0.1	0.03	0.18	0.015	0.2	Balance	-		
Grade 2	0.1	0.03	0.25	0.015	0.3	Balance	-		
Grade 3	0.1	0.05	0.35	0.015	0.3	Balance	-		
Grade 4	0.1	0.05	0.4	0.015	0.5	Balance	-		
			ALPHA/	BETA					
Grade 5 (Ti 6Al-4V)	0.08 max	0.05 max	0.2 max	0.125 max	0.4 max	Balance	Al 5.5 - 6.75 V 3.5 - 4.5		
Grade 9 (Ti 3Al 2.5V)	0.05	0.02	0.12	0.015	0.3	Balance	Al 2.5 - 3.5 V 2.0 - 3.0		
BETA									
21S	0.05 max	0.050 max	0.11 - 0.17	0.02 max	0.400 max	Balance	Al 2.5 - 3.5 Si 0.15 - 0.25 Mo: 14.0 - 16.0 Nb: 2.4 - 3.2		

TITANIUM MECHANICAL PROPERTIES									
ТҮРЕ	Proof Strength 0.2% Min (N/mm2)	Tensile Strength	Elong. % Min. (50mm Gauge Length)						
ALPHA									
Grade 1	170 - 240	24							
Grade 2	275 - 345	20							
Grade 3	380 - 450	18							
Grade 4	480 - 580	15							
	ALPHA	VBETA							
Grade 5 (Ti 6Al-4V)	862	10							
Grade 9 (Ti 3Al 2.5V)	520 - 585	15							
ВЕТА									
21S	21S Available on Request								





Processing

YOUR MATERIAL YOUR WAY

The Knight Group are industry leaders in the supply and processing of strip, coil and wire, consistently exceeding expectations of quality, service and performance. With a number of accreditations, including BS EN ISO 9001 and BS EN AS 9120, we are the supplier of choice for global manufacturers where quality, reliability and lean manufacturing at the heart of their priorities. Most manufacturers are facing increasing demands for goods to be delivered with tighter time frames and even tighter margins. By selecting the processing to meet your specific needs, your material can be prepared and delivered to the exact size, length and finish you need, saving valuable production time and costs. Our processing is offered at a comprehensive price and with a flexibility to select only the services you need and want, giving you maximum versatility and minimum cost.

We have invested heavily in our bespoke machinery and training our established team of operators, so that we can offer a truly comprehensive range of processing to complement our extensive range of stocked material



Reduced Machine Downtime Longer Production Runs Reduced Storage and Scrap Safer Material Handling Reduced Production Time and Costs TRAVERSE WINDING LINES
 5 EDGE FINISHING LINES
 8 CUT TO LENGTH LINES
 27 RECOILING LINES
 26 SLITTING LINES



Low Width Thickness Ratio 3:1 unique to the industry (normal minimum is 8:1)

Ability to offer Ultrafine Width Tolerances down to +/- 0.025mm (0.001")

> Thicknesses 0.013mm to 6.5mm (0.0005" to 0.26")

> Widths 0.64mm to 1100mm (0.025" to 43")

Packaging

BESPOKE PACKAGING

If you need bespoke material sizes and processing, then you probably want bespoke packaging as well. Thanks to our in house packaging design team, we can offer bespoke packaging solutions to protect your materials in transit. Whatever processing and finishing options you have chosen, your products will packaged to arrive safely and ready to use

You can choose to have strip material as pancake coils, traverse wound coil, flat blanks and sheets. Wire can be supplied as cut lengths, coils, formers or spools to suit your needs.









CHOOSE FROM OUR TRUSTED PARTNERS OR YOUR PREFERRED CARRIER

We firmly believe that all of our customers should be able to have your material, your way. Thanks to our global network of freight providers, you can choose from air, land or sea freight so you can have your material where you want, when you want.

There is also the option to arrange your own collection from our site in Birmingham, which can be organised through our sales team.



Standard Stock

WE ARE DRIVEN TO CONTINUE BUILDING A BETTER BUSINESS, BY WORKING CLOSELY WITH OUR CUSTOMERS TO GROW THEIRS.

Our materials and processing are carefully chosen to meet the exacting needs of manufacturers around the globe. We work alongside our suppliers to ensure we are at the forefront of material innovation, ensuring the availability of the highest quality material with the most competitive pricing. With over 2500 items in stock and sourcing of an extensive range or alloy grades, you can have your material, your way.

8 Cut To Length Lines 5 Edge Finishing Lines 27 Recoiling Lines 26 Slitting Lines 5 Traverse Winding Lines

Standard Stock Range

WE STOCK IN EXCESS OF 2500 ITEMS, AVAILABLE AS CUT LENGTHS/ STRAIGHTENED, COILS, FORMERS OR SPOOLS

М	laterial	Stainless Steel								Mild Steel		
т	emper	ANNEALED						HARD F	HARD ROLLED			
European Norm			EN 10088-2:2005			EN 10151:2002				EN 10139:1998		
Thickness Tolerances			EN ISO 944	N ISO 9445-1:2010(P) (Thickness X* not within precision range)						EN10140:2006 (precision) C		
European O Spec. La AISI SS AMS		1.4541 BS S526 321		1.4404 1.4401 316/316L		1.4307 1.4301 304L/304	1.4310 +C1300 301		1.4301 +C1300 304		DC01 C590	
											-	
ESC	AMS	5510		5507		5511/5513	5519		59	13	-	
	ASTM	A-2	240	A-240, A-266		A-240, A-266	A-(666	A-	666	-	
			WIDTH (mm)									
THICK	NESS (mm)	610	980	305	610	610	305	610	305	610	610	
(0.025						√ *		1	<i>√</i>		
	0.05	√*		1	\checkmark	\checkmark	\checkmark	\checkmark	~	\checkmark	\checkmark	
(0.076	\checkmark	\checkmark		\checkmark	\checkmark	\checkmark		\checkmark	\checkmark	\checkmark	
	0.08	√*	<i>√</i> *	\checkmark							\checkmark	
	0.1	\checkmark	✓		\checkmark	√*		✓	\checkmark	✓	\checkmark	
(0.127	\checkmark	~		\checkmark	\checkmark			~	~	\checkmark	
	0.15	\checkmark	✓		\checkmark	\checkmark		 ✓ 	✓	\checkmark	\checkmark	
	0.18		~								\checkmark	
	0.2	\checkmark			\checkmark	\checkmark		~	\checkmark	\checkmark	\checkmark	
	0.25	\checkmark	~		\checkmark	\checkmark			~	\checkmark	\checkmark	
	0.3	\checkmark			\checkmark	\checkmark		~	✓	\checkmark	\checkmark	
	0.38	\checkmark						~			\checkmark	
	0.39				✓	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark		
	0.45	\checkmark				√						
	0.5	\checkmark			✓	\checkmark	\checkmark	\checkmark	~	\checkmark	\checkmark	
	0.6							\checkmark	~	~		
	0.7						\checkmark		\checkmark	<i>✓</i>		
	0.8						\checkmark		~	~		
	0.9								\checkmark	\checkmark		
	1						\checkmark	<i>✓</i>	~	<i>✓</i>	\checkmark	
	1.2						\checkmark		\checkmark			
	1.5						\checkmark	\checkmark	\checkmark			

Product Range

RANGE CAN BE SUPPLIED AS CUT LENGTHS/ STRAIGHTENED, COILS, FORMERS OR SPOOLS								
	OTHER GRADES AND	SPECIFICATIONS AVAILAI	BLE, PLEASE C	ONTACT OUR S	SALES TEAM		EQUEST	
ТҮРЕ		GRADES AVAILABLE		TANDARD R	ANGE	ROUND AND PROFILE WIRE STANDARD RANGE		
			Tempers Available	Thickness (mm)	Width (mm)	Tempers Available	Specifications and Forms	
	AUSTENITIC	201, 301, 304L, 304, 305, 320, 321, 347,	Annealed All Other	0.01 - 2.5	3 - 1250		Round Wire 0.1 to 10.00mm dia* Profile Wire Upto 45mm2 area	
		316, 316L, 316Ti, 904L	Tempers	0.01 - 2.0	3 - 1250		For cold worked condition, please contact us with your	
STAINLESS STEEL	FERRITIO	410S, 430, 430L, 430Ti	Annealed	0.05 - 2.0	3 - 650	Annealed	requirements. Coils from 1kg to 1000kgs Formers from 500kgs to 1000kgs	
	FERRITIC	(439), 441, 444	All Other Tempers	0.05 - 1.6	3 - 450	Light Drawn Hard Drawn		
Ŭ F	MARTENSITIC	410, 420, 431	Annealed	0.127 - 2.50	3 - 450	Specified Tensile	Spools - Wide Range Available Cut Lengths/ Straightened	
TAIN	PRECIPITATION HARDENING	17/4PH, 17/7PH	Annealed	0.02 - 1.5	3 - 620	Tensile	from 10mm to 4m *	
S			Condition 'C'	0.025 - 1.0	3 - 620	-	*Duplex Round Wire 0.8 – 8.00mm dia*	
	HEAT RESISTING STEELS	309, 310	All Tempers Available	0.025 - 3.0	3 - 1000		Cut Lengths/ Straightened from 10mm to 10m	
MU	ALPHA	Grade 1, Grade 2, Grade 3, Grade 4	A II T	0.005 0.00		Annealed (soft) 1/8 Hard 1/4 Hard 1/2 Hard Hard Spring Hard	Round Wire 0.1 to 10.00mm dia Profile Wire Upto 45mm2 area	
TITANIUM	ALPHA/BETA	Grade 5 (Ti 6Al-4V) Grade 9 (Ti 3Al 2.5V)	All Tempers Available	0.025 - 3.00	3 - 1000		Coils from 1kg to 1000kgs Formers from 500kgs to 1000kgs Spools - Wide Range Available	
	BETA	21S					Cut Lengths from 10mm to 10m	
	COMMERCIALLY PURE NICKELS	200, 201			2 - 1000	Annealed Spring Hard	Round Wire 0.1 to 10.00 mm dia Upto 45 mm2 area Coils from 0.5 kg to 1000kgs Formers from 500kgs to 1000kgs Spools - Wide Range Available Cut Lengths/ Straightened from 10mm to 10mm	
SYG	NICKEL-COPPER ALLOYS	400		0.025 - 2.5				
NICKEL ALLOYS	NICKEL-CHROMIUM & NICKEL-CHROMIUM-IRON ALLOYS	alloy K500, alloy X, C22, alloy C2000, alloy 600, alloy 601, alloy 625, alloy C 276, alloy 718, alloy X750	All Tempers Available					
ž	IRON-NICKEL-CHROMIUM ALLOYS	alloy 800, alloy 825						
	CONTROLLED EXPANSION ALLOYS	29/18			3 - 610			
	PURE ALUMINIUM	1000 SERIES		0.01 - 3.0	3 - 1000 Sheet up to	Annealed	Round Wire 0.1 to 10.0 mm dia Upto 45mm2 area	
	ALUMINIUM COPPER ALLOY	2000 SERIES				(soft) 1/8 Hard		
N N	ALUMINIUM MANGANESE ALLOY	3000 SERIES				1/4 Hard	Coils from 1kg to 1000kgs Formers from 500kgs to 1000kgs	
NIW	ALUMINIUM MAGNESIUM ALLOY	5000 SERIES	All Tempers Available	0.01 - 1.5	2000mm	1/2 Hard Hard	Spools - Wide Range Available Cut Lengths/ Straightened	
ALUMINIUM	ALUMINIUM MAGNESIUM + SILICON ALLOY	6000 SERIES		0.01 - 3.0		Spring Hard	from 10 mm to 10m	
	ALUMINIUM ZINC ALLOY	7000 SERIES		Please cor		ntact us with your requirements		
	CLAD ALUMINIUM	n/a		Please cor		ntact us with yo	ur requirements	
8 S	COMMERCIALLY PURE HIGH CONDUCTIVITY COPPER	C101, C102, C103, C106				Annealed	Round Wire 0.1 to 10.00 mm dia	
3AS ZE	BRASS	CZ106, CZ107, CZ108				(soft) 1/8 Hard	Upto 45 mm2 area	
, BF ONZ	PHOSPHOR BRASS	PB102, PB103	All Tempers Available	0.01 - 3.0	3 - 1220	1/4 Hard	Coils from 1kg to 1000kgs Formers from 500kgs to 1000kgs	
COPPER, BRASS & BRONZE	NICKEL SILVERS CUPRONICKEL & HIGH COPPER CONTENT ALLOYS	NS103, NS104, NS106, NS107, C72500				1/2 Hard Hard Spring Hard	Spools - Wide Range Available Cut Lengths/ Straightened from 10mm to 4m	
0	COPPER BERYLLIUM ALLOYS	CB101						
BON	LOW CARBON STEEL	DC01, DC03, DC04, DC05, DC06	Annealed All Other Tempers	0.01 - 3.0	3 - 1220 3 - 1000	Annealed (soft)	Round Wire 0.1 to 10.00 mm dia Upto 45 mm2 area	
SAR EEL		C558 C608 C678	Annealed	0.05 - 3.0	3 - 650	1/8 Hard 1/4 Hard	Coils from 1kg to 1000kgs	
MILD & CARBON STEEL	HIGH CARBON STEEL	C55S, C60S, C67S, C75S, C85S, C90S, C100S, C125S, 48Si7, 56Si7, 51CrV4, 80CrV2, 75Ni8, 125Cr2, 102Cr6	All Other Tempers	0.05 - 1.6		1/2 Hard Hard	Formers from 500kgs to 1000kgs Spools - Wide Range Available Cut Lengths/ Straightened	
W			Hardened &	0.127 - 3.0	3 - 610	Spring Hard	from 10mm to 10m	

Tempered CLAD METALS AND PLATED METALS AVAILABLE, PLEASE CONTACT US WITH YOUR REQUIREMENTS

Knight Group Head Office

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Visit our websites: Main: www.knight-group.co.uk Offcuts: www.ksmdirect.co.uk www.pmdirect.be

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