



Helping manufacturers across the globe achieve sustainable leaner manufacturing processes



Knight Group Processing

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



Over 75 years Experience

Ultrafine Width Tolerances down to +/- 0,025mm (0,001"

Fast Turnaround Processing

Cost Effective Blanking



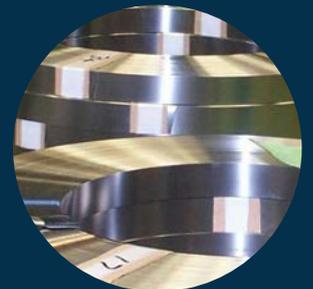
26 Slitting Lines



5 Traverse Winding Lines



8 Cut to Length Lines



5 Edge Finishing Lines

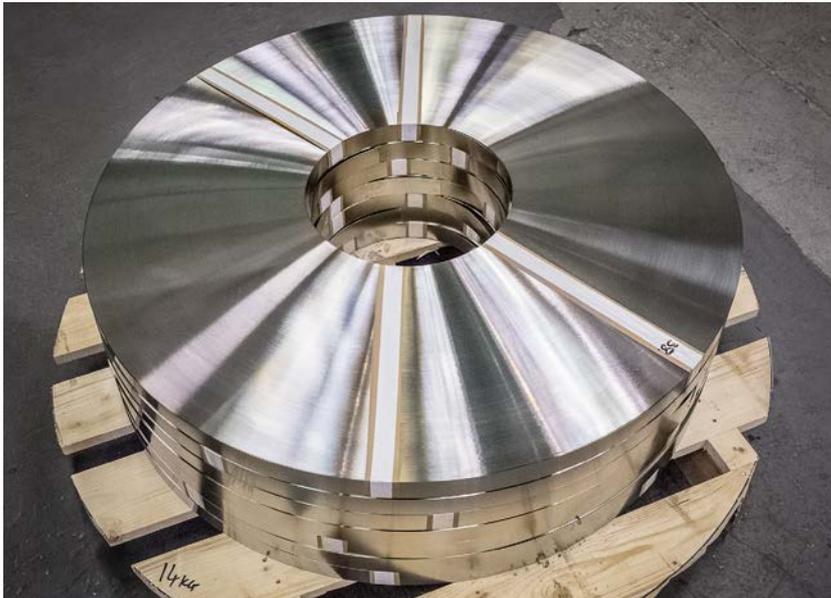
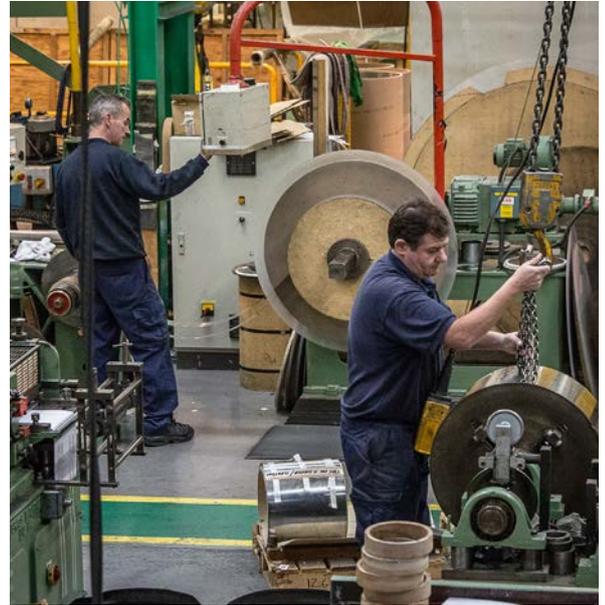


Processing

Your Material Your Way

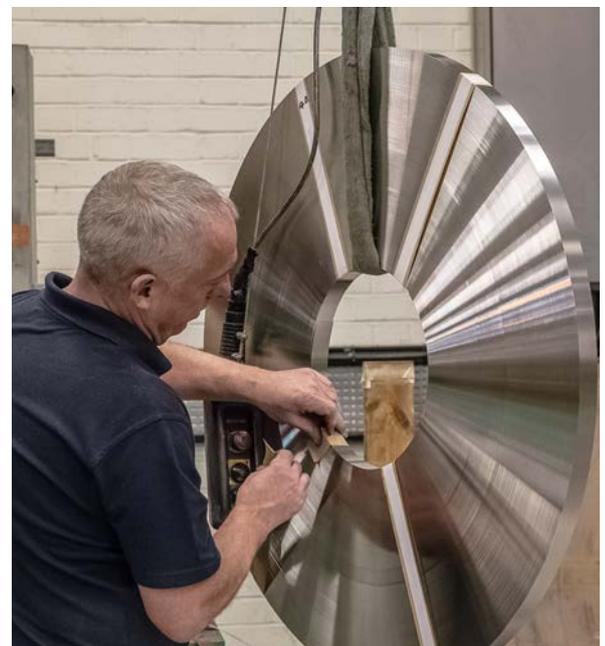
The Knight Group are industry leaders in the supply and processing of strip, coil and wire, consistently exceeding expectations of quality, service and performance. With a number of accreditations, including ISO 9001 and ISO 9120, we are the supplier of choice for global manufacturers where quality, reliability and lean manufacturing are 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 require, saving valuable production time and costs. Our processing is offered at a competitive 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.



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. Our staff receive continual, high quality training to ensure they can maximise their personal potential. Our production team are multi machine trained to allow us flexibility in processing, ensuring we can offer efficient processing even with tight turnaround time. With sustainable practices at the forefront of manufacturers' success our team can process your material with accuracy you need to cut time and costs.



Slitting & Shearing



As one of the largest independent processors in Europe, the Knight Group has 26 slitting machines, providing a large workload capacity to accommodate fast turnaround times to meet even the most demanding deadlines.

Our machines are state of the art, with ultra fine tolerances and a substantially superior width to thickness ratio of 3:1 compared to the industry standard of 8:1, capable of processing all material sizes and specifications.

We have a skilled team of experienced machine operators that ensure the efficient and safe running of our production facilities, with all materials handled with care from arrival to dispatch.



Slit Width Tolerances Dimensions in (mm)

Specified Thickness		Width			
From	Up To	<40	40 < W <150	150 < W <305	>305
0.025	0.25	± 0.10	± 0.12	± 0.15	± 0.20
0.25	0.50	± 0.12	± 0.15	± 0.20	± 0.25
0.50	1.0	± 0.15	± 0.20	± 0.25	± 0.30
1.0	2.0	± 0.20	± 0.25	± 0.30	± 0.35
2.0	4.0	± 0.25	± 0.30	± 0.35	± 0.40
4.0	6.5	± 0.30	± 0.35	± 0.40	± 0.45



26 Slitting Machines for all Sizes and Material Specifications

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")



Traverse Winding

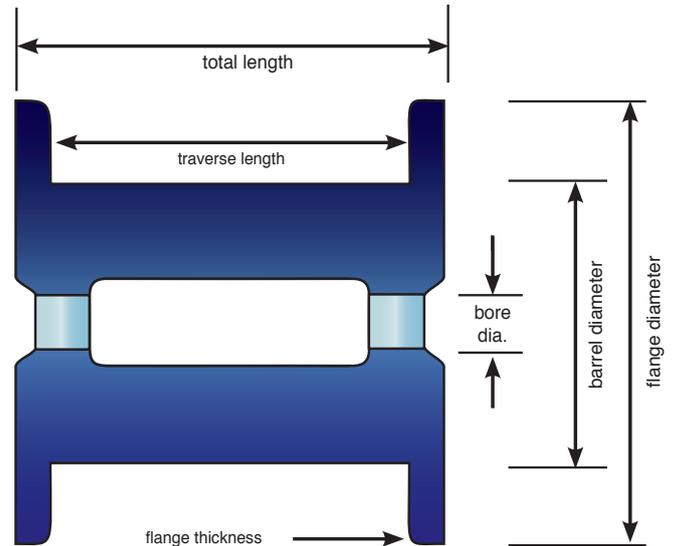
With efficiency as one of our key values at the Knight Group, we have successfully developed in-house traverse winding to support our customers in reducing their manufacturing times and costs.

Traverse winding provides an alternative to single coil “pancake” form of feed supply, capable of holding up to ten times more material. Each traverse wound coil increases productivity and enables longer uninterrupted production runs, by reducing the number of coils needing to be reloaded. Machine downtime and coil handling are minimised and storage and scrap can be dramatically reduced. We can offer traverse wound strip on your choice of spools from 20kg to 100kg max.



Traverse Winding Spool Dimensions			
Spool Type	Argonaut	DIN 355	DIN 500
Maximum Weight (kg)	20	50	100
Total Length (mm)	100	200	250
Traverse Length (mm)	85	160	180
Flange Diameter (mm)	300	355	500
Barrel Diameter (mm)	180	224	315
Bore Diameter (mm)	51.5 +0.5	36 +0.5	36 +0.5

Traverse Winding Tolerances		
Specified Thickness (mm)		
From	Up To	Width <19
0.10	0.25	± 0.10
0.25	0.50	± 0.12
0.50	1.0	± 0.15



5 Traverse Winding Lines

Spools offer long length coils that are difficult or impossible to handle as flat pancake coils

Spools up to 100kg in Weight

Slitting Width Range is from 3 mm up to 20mm (0.118” to 0.787”)

Slitting Thickness Range from 0.1mm up to 0.5mm (0.004” to 0.020”)

Reduced Machine Downtime

Longer Production Runs

Reduced Storage and Scrap

Safer Material Handling

Reduced Production Time and Costs



Cut to Length



The Knight Group knows that manufacturers are under constant pressure to get their products processed faster and cheaper and stay ahead of their competitors. Space is also at a premium and many manufacturers do not have onsite facilities to store large quantities of material for processing to ensure minimal machine downtime.

By offering our customers material cut and packaged to their exact specifications, we help hundreds of our customers to achieve leaner manufacturing processes to maintain a sustainable and successful business. We have 8 cut to length lines, with multiple encoders used for multi-lane cutting of narrow materials. Operated by our skilled and experienced team, you can rely on very flat, high surface quality blanks from your chosen material, cut quickly and with great accuracy. We offer highly competitive rates to make cut to length an attractive cost and time saving decision. All material is quality checked and then carefully packed in bespoke packaging. Available for both collection or delivery to suit your business needs, your material will arrive machine ready.



8 Cut to Length Lines

High Quality Surface Finish Blanks

Lengths up to 6 Metres (236.22")

Heavy Gauge Lines for 3mm Metal Stock Up to a 1000mm (39.37") Wide and Thicker

Gauges up to 6mm (2.36") at Reduced Widths

Specialist Foil Lines to Cut High Quality Flat Precision Blanks for the Chemical Etching and Laser Industries

Widths up to 1000mm (39.37")

and Gauges from 0.05mm (0.002")

Cut to Length Tolerances For widths up to 1000mm

Thickness	Thickness	Length (mm)					
		From	Up To	25 < L <1000	1000 < L <2000	2000 < L <3000	4000 < L <6000
0.1	0.5			± 0.25	± 0.4	± 0.6	± 1.0
0.5	1.5			± 0.4	± 0.6	± 1.0	± 3.0
1.5	3.0			± 0.6	± 1.0	± 3.0	± 5.0
3.0	5.0			± 1.0	± 3.0	± 5.0	± 7.0

Square thin gauge blanks up to 0.6mm in thickness and 650mm wide can have an accuracy across the diagonals of ±0.5mm



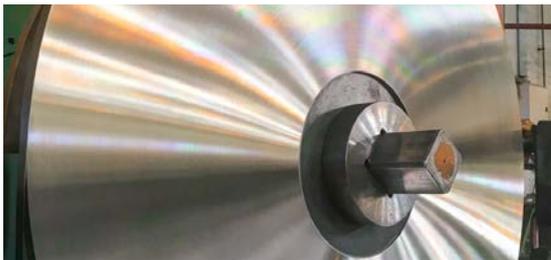
Edge Finishing

Edge-Dressing: Cutting Risks and Cutting Costs

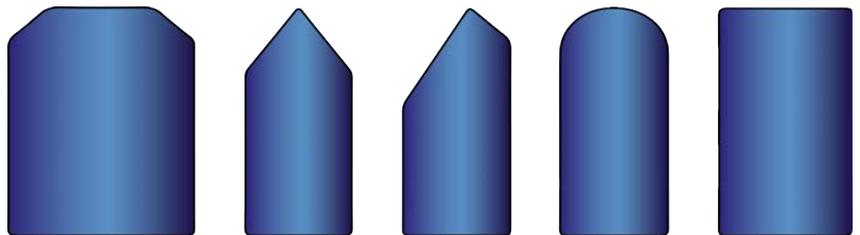
During the production process of strip and coil, the material develops a sharp edge, commonly referred to as a burr. This sharp edge has both safety and manufacturing implications, as it poses a health and safety hazard and the material can be more difficult to work with, increasing manufacturing time and ultimately costs.

The Knight Group offers manufacturers the flexibility to choose the processing that meets your needs and we can supply material edge-dressed to your specifications, whether it is the commonly requested rounded or square edge shapes or you need a contoured edge shape tailored specifically to you. We design and use Bespoke Tungsten Carbide Tooling to meet the most exacting custom edge requirements on precision strip.

With the heavy investment in our bespoke machinery and a wealth of experience in our team, our machines can offer precision processing in high volumes, with fast turnaround times.



Edge Dressing				
Edge Type	Width Range		Thickness Range	
	mm	inches	mm	inches
De-burred Safe	4.5 - 110	0.18 - 4.33	0.15 - 3.0	0.006 - 0.118
Fully Rounded	4.5 - 110	0.18 - 4.33	0.15 - 2.0	0.006 - 0.080
Dressed Square	7.0 - 80	0.28 - 3.15	0.15 - 2.0	0.006 - 0.080
Chamfered	10.0 - 80	0.39 - 3.15	0.30 - 2.0	0.012 - 0.080
Rolled Round	8.0 - 75	0.32 - 2.95	0.80 - 3.50	0.032 - 0.138



Typical Edge Profiles

5 Edge Finishing Lines

Bespoke Tungsten Carbide Tooling

Simple de-burring
Rounded Edges
Chamfered Edges
Square Edges

Available in:
Pancake Coils or Spools

Edge Profiling Size Range						
Size Range	Profiling (Metal Removal)		Edge Rolling		Roll Deburring	
	mm	inches	mm	inches	mm	inches
Thickness	0.1 - 3.0	0.004 - 0.12	1.2 - 4.0	0.05 - 0.16	0.2 - 2.0	0.008 - 0.08
Width	3.0 - 80.0	0.12 - 3.15	8.0 - 80.0	0.32 - 3.15	3.0 - 600	0.12 - 23.62
Coil Types	Pancake, Open Traverse, Spool Wound		Pancake		Pancake	



Warehouse



With one of the widest ranges of precision strip in Europe, the Knight Group are able to supply most strip metal requirements from an extensive range of stock at our major facilities in the UK and Belgium. The warehouse racking at our expansive facility in Birmingham can accommodate a range of coil sizes up to 5 tonnes in weight and up to 73" (1855mm) in diameter. With the use of turret trucks, we can use the full height of the building and ensure a maximum level of stock can be stored. We use a computerized stock management system to ensure all incoming materials are accurately net weighed and given allocated positions, allowing our team real-time information on stock levels to ensure we can provide accurate responsive customer service.



Over 40,000 sq.ft Warehouse

**Widest Range throughout Europe
of Alloys and Thicknesses
of Precision Strip Metals
Held in Stock**

**Fully Barcoded and
Computerised Stock
Management System**

Short Lead Times

Bespoke Packing

Worldwide Distribution



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