



**WHITWORTH
ENGINEERS**

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STEEL STRAPPING

CATALOG 2025



Our Brands



At Whitworth, we engineer steel strapping solutions designed to meet the diverse needs of industries that demand strength, reliability, and durability. Our range of products offers tailored solutions for light, medium, and extreme-duty applications, ensuring that every load, from delicate items to the heaviest machinery, remains securely fastened during transit and storage.

Each of our brands is built with a commitment to excellence, combining advanced technology, premium materials, and precision engineering. Whitworth steel strapping not only guarantees optimal performance but also integrates seamlessly into automated systems, making it the ideal choice for modern industrial operations.



For Agile & Flexible Strapping



Whitworth AeroStrap is a cold-rolled, low-carbon steel strap specifically designed for light to medium-duty applications. Ideal for industries that require reliable strapping solutions, Aerostrap ensures the secure fastening of large or heavy items, preventing damage or accidents during transit. Its durable yet flexible construction provides excellent strength, making it a trusted choice for safely bundling and securing goods in various industrial settings.

Key Benefits

- **Increased Productivity:** Designed to integrate smoothly with automated strapping systems, AeroStrap helps industries speed up their packing processes.
- **High Strength-to-Weight Ratio:** Provides superior break strength per pound of material, reducing the amount of strapping while still ensuring secure loads.
- **Versatile Applications:** Ideal for use in industries like construction, manufacturing, and logistics, where reliable and flexible strapping solutions are necessary for safe handling of goods.
- **Safety Assurance:** Ensures that goods remain intact and securely bundled, preventing movement during transit and minimizing the risk of damage.

Applications

- Packaging and bundling light-to-medium loads.
- Securing materials in construction, such as wood bundles or pipes.
- Ensuring safe palletizing and bundling of products for shipping in industries like manufacturing and logistics.



TECHNICAL DATA SHEET

TECHNICAL SPECIFICATIONS - AERO STRAP

Strap Code	Width (mm)	Width (Inch)	Thickness (mm)	Thickness (Inch)	Break Load (Kg)	Break Load (lbs)	Elongation (Gl=150mm)	Min. UTS (Kg/mm2)	Min. UTS (N/mm2)	Bend	Yield (M/Kg)	Yield (Fy/Lb)
AS1215	12.7	1/2	0.38	0.015	362	798	1.5% max	75	735	2	26.4	39.3
AS1218	12.7	1/2	0.46	0.018	438	966	1.5% max	75	735	2	21.8	32.4
AS1223	12.7	1/2	0.58	0.023	552	1217	1.5% max	75	735	2	17.3	25.7
AS5815	15.88	5/8	0.38	0.015	453	999	1.5% max	75	735	2	21.1	31.4
AS5818	15.88	5/8	0.46	0.018	548	1208	1.5% max	75	735	2	17.4	25.9
AS5820	15.88	5/8	0.51	0.02	607	1338	1.5% max	75	735	2	15.7	23.4
AS5823	15.88	5/8	0.58	0.023	691	1523	1.5% max	75	735	2	13.8	20.5
AS3415	19.05	3/4	0.38	0.015	545	1202	1.5% max	75	735	2	17.6	26.2
AS3418	19.05	3/4	0.46	0.018	657	1448	1.5% max	75	735	2	14.5	21.6
AS3420	19.05	3/4	0.51	0.02	729	1607	1.5% max	75	735	2	13.2	19.6
AS3423	19.05	3/4	0.58	0.023	829	1828	1.5% max	75	735	2	11.5	17.1
AS3425	19.05	3/4	0.64	0.025	914	2015	1.5% max	75	735	2	10.3	15.3
AS3431	19.05	3/4	0.79	0.031	1129	2489	1.5% max	75	735	2	8.5	12.6
AS1425	31.75	1 1/4	0.64	0.025	1524	3360	1.5% max	75	735	2	6.2	9.2
AS1431	31.75	1 1/4	0.79	0.031	1881	4147	1.5% max	75	735	2	5.1	7.6



Balance between **Strength & Flexibility**



Whitworth IronGuard steel strapping is engineered with cold-rolled, low-carbon steel, designed specifically for light to medium-duty applications. Built to provide unparalleled strength and resilience, IronGuard is the ideal choice for industries that require reliable strapping solutions to secure heavy items. From manufacturing to logistics and construction, Whitworth IronGuard ensures that your loads remain stable and secure, preventing damage and ensuring safety throughout transit.

Key Benefits

- **High Breaking Load:** IronGuard's higher break strength ensures the secure fastening of medium-to-heavy loads without risk of the strap breaking or loosening during transit.
- **Tough & Resilient:** Withstands varying environmental conditions and handling, making it a reliable choice for outdoor and rough industrial use.
- **Durable & Cost-Effective:** Built to last, reducing the need for re-strapping and replacement, leading to cost savings over the long term.
- **Flexible for Various Industries:** Suitable for manufacturing, construction, and industrial bundling, where reliable medium-duty strapping is required.

Applications

- Strapping for medium-heavy loads in construction sites, such as securing steel beams or concrete blocks.
- Palletizing raw materials or finished products in factories and manufacturing units.
- Ideal for securing bundles of pipes, timber, or industrial machinery.





TECHNICAL DATA SHEET

TECHNICAL SPECIFICATIONS - IRON GUARD												
Strap Code	Width		Thickness		Break Load		Elongation	Minimum UTS	Minimum UTS	Bend	Yield	Yield
	(mm)	(Inch)	(mm)	(Inch)	(Kg)	(lbs)	(GL=150mm)	(Kg/mm2)	(N/mm2)		(M/Kg)	(Ft/Lb)
IG5823	15.88	5/8	0.58	0.023	783	2070	3% min	85	833	2	13.8	20.5
IG3423	19.05	3/4	0.58	0.023	939	2070	3% min	85	833	2	11.5	17.1
IG3425	19.05	3/4	0.64	0.025	1036	2284	3% min	85	833	2	10.3	15.3
IG3431	19.05	3/4	0.79	0.031	1279	2820	3% min	85	833	2	8.5	12.6
IG1425	31.75	1-1/4	0.64	0.025	1727	3807	3% min	85	833	2	6.2	9.2
IG1431	31.75	1-1/4	0.79	0.031	2132	4700	3% min	85	833	2	5.1	7.6



Reliable & Tough, Ideal for Automation



Whitworth TitanGrip is engineered for heavy-duty applications, designed to handle the toughest jobs. With superior break load capacity, it ensures safe strapping of heavy industrial loads like steel coils, metal pipes, or large machinery. TitanGrip's high tensile strength and minimal elongation make it ideal for securement during long-distance transportation. TitanGrip allows for seamless integration into fully automated strapping systems, reducing downtime and maximizing efficiency in high-volume industrial environments, where speed and reliability are critical.

Key Benefits

- **Extreme Tensile Strength:** TitanGrip offers exceptional tensile strength and break load capacity, making it perfect for the heaviest loads.
- **Minimal Elongation:** Reduces the risk of shifting or movement in the strapping, ensuring that even the most valuable or sensitive loads remain stable.
- **Designed for Automation:** Easily integrates into fully automated strapping systems, reducing downtime and increasing efficiency in high-volume industrial operations.
- **Long-Lasting Durability:** Built for longevity, TitanGrip's durability reduces the frequency of re-strapping, making it a cost-effective option over time.

Applications

- Heavy-duty strapping for large industrial loads such as steel coils, large metal pipes, and heavy machinery.
- Ideal for high-volume strapping operations that require speed and reliability.
- Used in industries like logistics, steel manufacturing, and construction where extreme load stability is necessary.





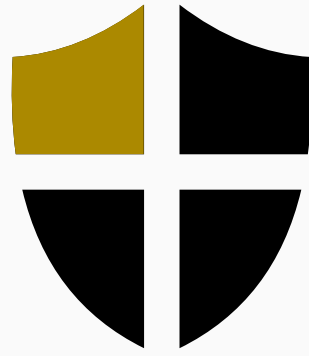
TECHNICAL DATA SHEET

TITAN GRIP

TECHNICAL SPECIFICATIONS - TITAN GRIP												
Strap Code	Width		Thickness		Break Load		Elongation	Min. UTS	Min. UTS	Bend	Yield (M/Kg)	Yield (Ft/Lb)
	(mm)	(Inch)	(mm)	(Inch)	(Kg)	(lbs)	(GL=150mm)	(Kg/mm2)	(N/mm2)			
TG5823	15.88	5/8	0.58	0.023	848	1870	5% min	92	901.6	2	13.8	20.5
TG3425	19.05	3/4	0.64	0.025	1122	2474	5% min	92	901.6	2	10.6	15.8
TG3431	19.05	3/4	0.79	0.031	1385	3053	6.5% min	92	901.6	2	8.5	12.6
TG3433	19.05	3/4	0.84	0.033	1473	3247	6.5% min	92	901.6	2	7.9	11.8
TG3435	19.05	3/4	0.89	0.035	1560	3439	6.5%min	92	901.6	2	7.5	11.2
TG1025	25.4	1	0.64	0.025	1496	3298	5% min	92	901.6	2	7.8	11.6
TG1031	25.4	1	0.79	0.031	1846	4070	6.5% min	92	901.6	2	6.3	9.4
TG1050	25.4	1	1.27	0.05	2968	6543	6.5% min	92	901.6	2	3.9	5.8
TG1425	31.75	1-1/4	0.64	0.025	1870	4123	5% min	92	901.6	2	6.4	9.5
TG1431	31.75	1-1/4	0.79	0.031	2308	5088	6.5% min	92	901.6	2	5.1	7.6
TG1435	31.75	1-1/4	0.89	0.035	2600	5732	9% min	92	901.6	2	4.6	6.8
TG1440	31.75	1-1/4	1.01	0.04	3038	6698	9% min	92	901.6	2	3.9	5.8
TG1444	31.75	1-1/4	1.12	0.044	3245	7154	9% min	92	901.6	2	3.6	5.4
TG1450	31.75	1-1/4	1.27	0.05	3710	8179	9% min	92	901.6	2	3.2	4.8
TG1457	31.75	1-1/4	1.45	0.057	4235	9337	9% min	92	901.6	2	2.7	4.0



Exceptional Strength, For Critical Operations



MAXSHIELD

Whitworth MaxShield is the highest grade of steel strapping, built for extreme-duty applications. With exceptional tensile strength and break load, MaxShield ensures the highest level of safety and security for the heaviest, most valuable loads. Its robust strength is ideal for securing valuable cargo, such as in shipbuilding, aerospace, and other critical sectors. With minimal elongation, Whitworth MaxShield prevents any movement in the strapping, maintaining the integrity of the load even under the most strenuous conditions.

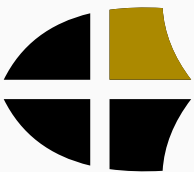
Key Benefits

- **Maximum Break Strength:** Provides the highest level of safety and security for extreme-duty loads, such as in critical industries like shipbuilding.
- **Minimal Elongation:** Prevents any movement during transportation, maintaining the integrity of the load even under the most strenuous conditions.
- **Perfect for High-Value Cargo:** Ideal for securing high-risk, high-value cargo where load integrity and safety are critical, ensuring safe transit
- **High-End Performance:** MaxShield performs reliably in high-stakes environments where performance cannot be compromised.

Applications

- Strapping heavy-duty loads where safety and reliability are paramount, such as large equipment or high-value shipments.
- Suitable for industries that deal with hazardous materials, providing peace of mind during long-distance transit.
- Securing high-value loads in shipbuilding, aerospace, and other high-risk industries.





TECHNICAL DATA SHEET

MAXSHIELD

TECHNICAL SPECIFICATIONS - MAX SHIELD

Strap Code	Width (mm)	Width (Inch)	Thickness (mm)	Thickness (Inch)	Break Load (Kg)	Break Load (lbs)	Elongation (GL=150mm)	Minimum UTS (Kg/mm2)	Minimum UTS (N/mm2)	Bend	Yield (M/Kg)	Yield (Ft/Lb)
MX3431	19.05	3/4	0.79	0.031	1655	3649	5% min	110	1078	1R	8.5	12.6
MX3433	19.05	3/4	0.84	0.033	1760	3880	5% min	110	1078	1R	7.9	11.8
MX3435	19.05	3/4	0.89	0.035	1865	4112	5% min	110	1078	1R	7.5	11.2
MX1025	25.4	1	0.64	0.025	1788	3942	5% min	110	1078	1R	7.8	11.6
MX1031	25.4	1	0.79	0.031	2207	4866	5% min	110	1078	1R	6.3	9.4
MX1425	31.75	1 1/4	0.64	0.025	2235	4927	5% min	110	1078	1R	6.4	9.5
MX1431	31.75	1 1/4	0.79	0.031	2759	6083	5% min	110	1078	1R	5.1	7.6
MX1435	31.75	1 1/4	0.89	0.035	3108	6852	5% min	110	1078	1R	4.6	6.8
MX1440	31.75	1 1/4	1.01	0.04	3527	7776	5% min	110	1078	1R	3.9	5.8
MX1444	31.75	1 1/4	1.12	0.044	3912	8624	5% min	110	1078	1R	3.6	5.4
MX1450	31.75	1 1/4	1.27	0.05	4435	9777	5% min	110	1078	1R	3.2	4.8
MX1457	31.75	1 1/4	1.45	0.057	5064	11164	5% min	110	1078	1R	2.7	4.0



Tolerance & Customisation

Whitworth Steel Strap is manufactured to stringent dimensional tolerances, ensuring superior machine compatibility, operational consistency, & high-speed performance.

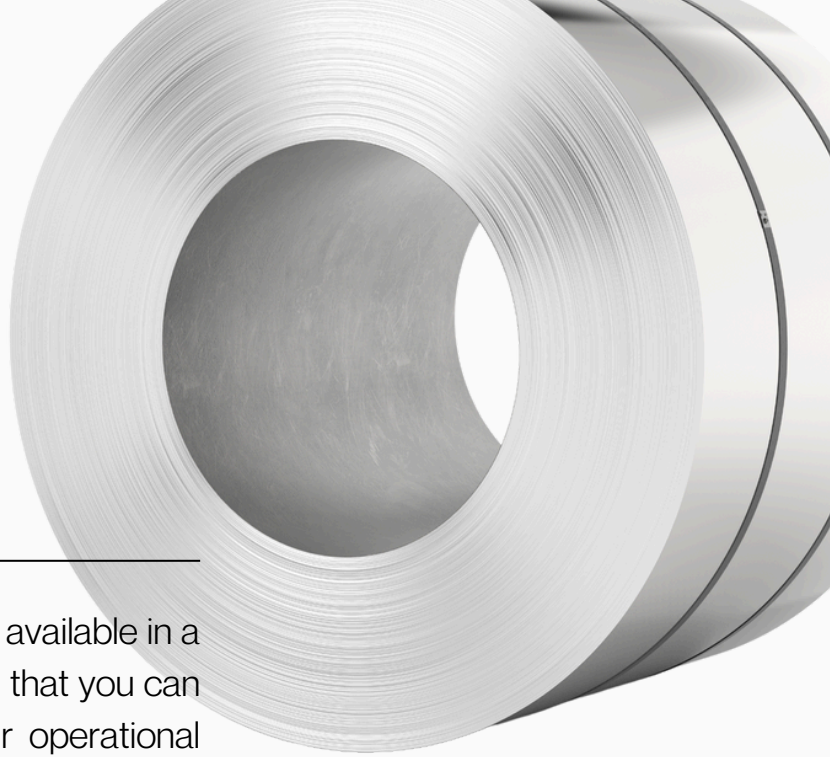
Note: We can supply custom-made specifications such as tensile strength, elongation, and coil weight to meet your specific application requirements.

Width	±0.1 mm
Thickness	±0.05mm
Paint Thickness	Colored: 5.0 microns Zinc Coated: 7.0 microns Hot Dipped Galvanised: 12 microns
Coil Weight	Regular: 45-50 Kgs approx Jumbo/Super Jumbo: 150-500 Kgs approx:
Curl	≤ 25.4mm per 2440 mm
Camber	≤ 12.7mm per 2440 mm
Twist	≤ 20° per 2440 mm
Slippage	Maximum 7Kg
Winding Type	Ribbon, Mill, Jumbo
No Joint	Weldless Joint



Packaging Options

Whitworth steel strapping products are available in a variety of packaging solutions, ensuring that you can choose the option best suited to your operational needs:



Ribbon-Wound Coils

Compact and easy to handle, ideal for light- to medium-duty applications.



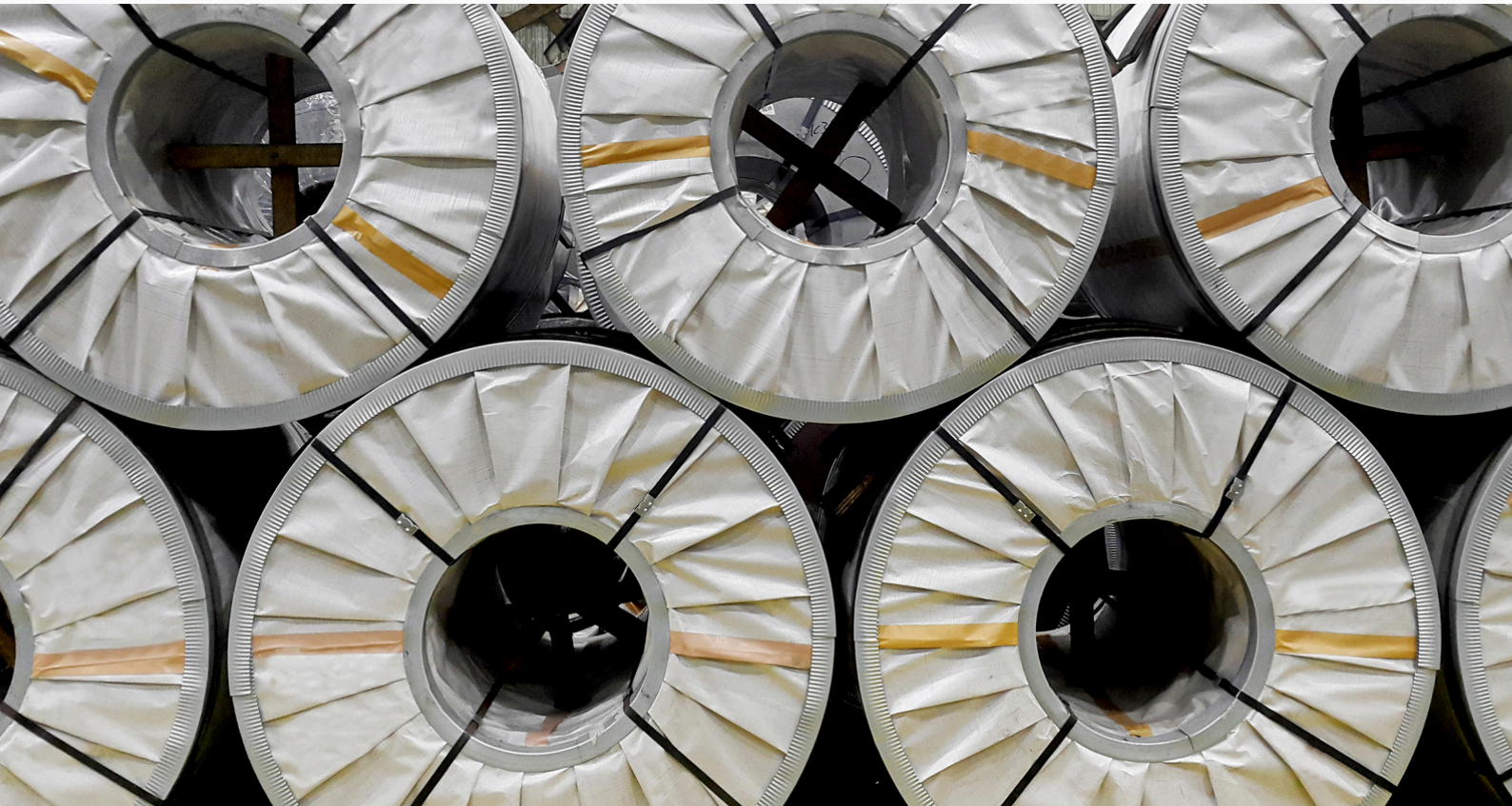
Mill-Wound Coils

Larger coils for high-volume operations, reducing the need for frequent coil changes.



Jumbo-Wound Coils

Best suited for automated systems in high-demand industries.

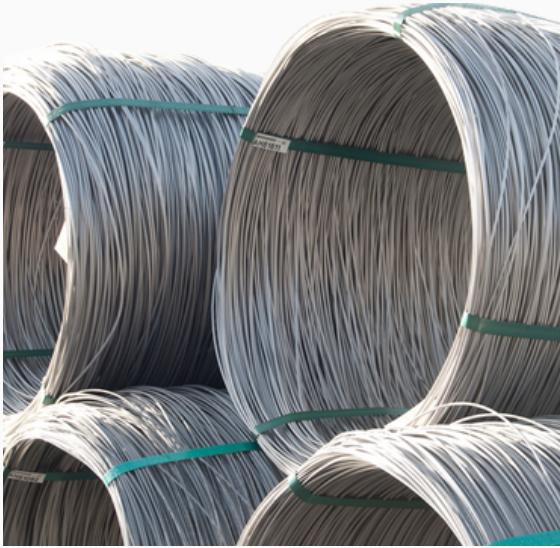


Applications of Steel Strapping

Whitworth's steel strapping solutions are trusted across a wide range of industries for their exceptional strength, durability, and versatility. Our high-performance strapping ensures that loads, whether light, medium, or heavy-duty, remain securely fastened, providing peace of mind throughout transportation and storage.

Whether stabilizing industrial equipment, securing construction materials, or protecting high-value cargo in shipping, Whitworth steel strapping is engineered to withstand the most demanding environments. Each product is designed to meet the unique challenges of various sectors, delivering reliability, safety, and cost-effectiveness.

Explore how Whitworth steel strapping can enhance the efficiency and safety of your operations



Manufacturing

Ensure that machinery, equipment, and raw materials are securely strapped for safe transit and storage.



Logistics & Shipping

Prevent damage to goods during long-distance transportation with our high-tensile steel straps.



Construction

Heavy-duty strapping solutions for stabilizing materials like steel beams, pipes, and construction equipment.



Aerospace & Shipbuilding

Extreme-duty applications where load integrity is paramount, ensuring that valuable cargo remains intact.

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