



**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/mm ²) | Min. UTS (N/mm ²) | Bend | Yield (M/Kg) | Yield (Ff/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 (GL=150mm) | Minimum UTS (Kg/mm ²) | Minimum UTS (N/mm ²) | Bend | Yield (M/Kg) | Yield (Ft/Lb) |
|------------|-------|--------|-----------|--------|------------|-------|-----------------------|-----------------------------------|----------------------------------|------|--------------|---------------|
| | (mm) | (Inch) | (mm) | (Inch) | (Kg) | (lbs) | | | | | | |
| 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



TITANGRIP

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

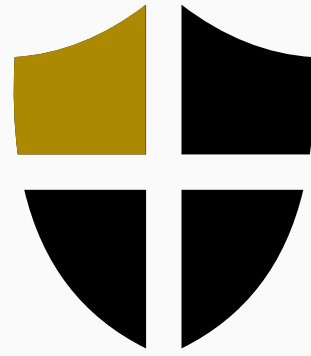
TITAN GRIP

TECHNICAL SPECIFICATIONS - TITAN GRIP

| Strap Code | Width (mm) | Width (Inch) | Thickness (mm) | Thickness (Inch) | Break Load (Kg) | Break Load (lbs) | Elongation (GL=150mm) | Min. UTS (Kg/mm ²) | Min. UTS (N/mm ²) | Bend | Yield (M/Kg) | Yield (Ft/Lb) |
|------------|------------|--------------|----------------|------------------|-----------------|------------------|-----------------------|--------------------------------|-------------------------------|------|--------------|---------------|
| 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.

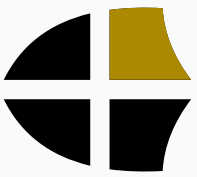
Key Benefits

- **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

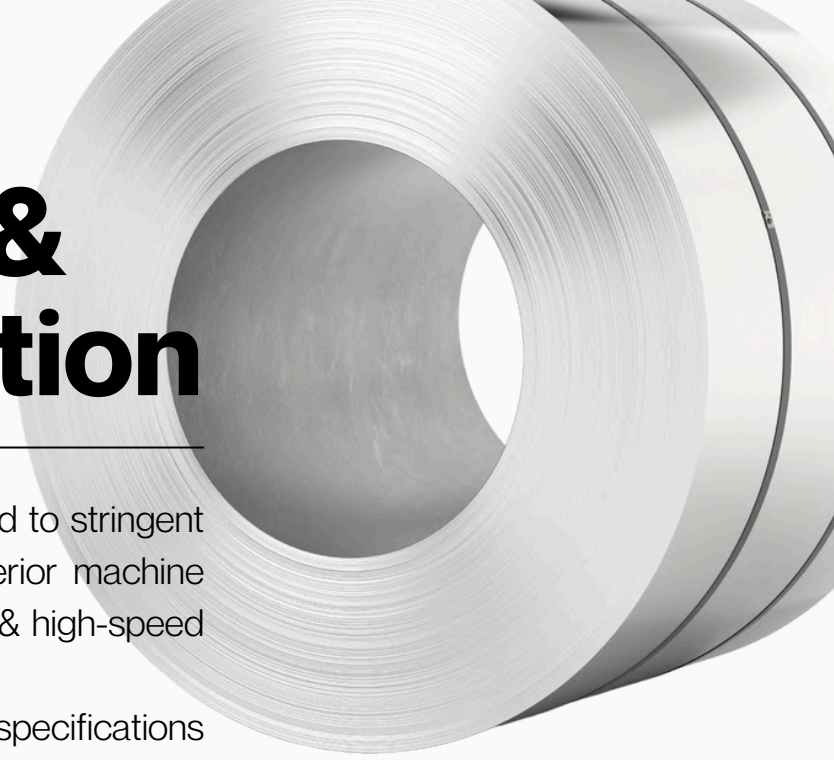
MAXSHIELD

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/mm ²) | Minimum UTS (N/mm ²) | 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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