

Flat-Flex® Product Catalogue





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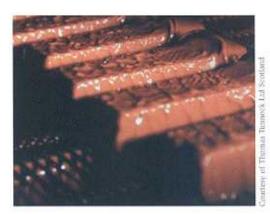


A Wide Variety of Belts to Suit your Application

Flat-Flex® is available in over 60 different pitch and wire diameter combinations

Flat-Flex® Conveyor Belting

Whatever your needs, Wire Belt Company's Application Engineers will work with you to determine the best Flat-Flex belt configuration to accommodate your product, process, application and maintenance requirements. In many cases, your needs will be met by one of the belts listed in the Catalogue. If you require a unique belt to deliver the best conveyor performance, we will not hesitate to recommend, design and deliver a totally customised solution for your application. Our aim is your complete satisfaction with the performance of our products. We are confident we can provide the right Flat-Flex belts, sprockets and other components you need.



Unique features of Flat-Flex®

- Unlimited uses: drying, washing, coating, cooking, cooling and inspection while products are on the move
- Large open area up to 85%
- · Small transfers
- · Non slip positive drive
- USDA approved
- · Hygienic design
- · Very low belt mass

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Available Mesh Sizes:-

- . 4.24 x 0.89
- 4.3 × 1.27
- 5.64 x 0.89
- 6.0 x 1.27
- 6.35 x 1.27
- 6.4 x 1.4
- 7.26 x 1.27
- 7.26 x 1.57
- · 9.6 x 2.08
- 12.0 x 1.83
- 12.7 x 1.83
- 12.7 × 2.34
- 20.32 x 2.34

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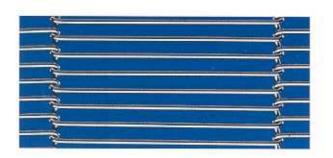


Advantages

- · Improved processing efficiency
- · Easy cleaning to high hygiene standard
- Available in widths ranging from 28mm to 4.5 meters

4.24mm x 0.89mm 77% Open Area

- · Light duty applications
- · Chocolate enrobing, bottoming, cooling
- · Seafood and meat processing
- · Icing, dusting and sugaring
- · Fruit, nut and vegetable grading, washing and sorting
- · Snack food flavouring and coatings
- · Pharmaceutical manufacturing
- · Diagnostic apparatus

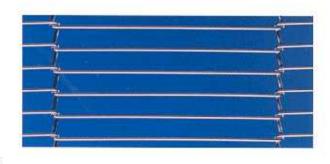




- Can carry product up to 7.3 kg/M²
- · Close Transfer
- · Seafood, poultry and meat processing
- · Fruit, nut vegetable grading, washing and sorting
- · Pasta cookers
- · Cereal processing
- · Printed circuit board cleaners

5.64mm x 0.89mm 82% Open Area

- · Light Duty Applications
- · Close Transfers
- · Chocolate enrobing, bottoming
- · Meat processing
- · Fruit, nuts and vegetable sorting and grading
- · Available in 1mm wire diameter





6mm x 1.27mm 76% Open Area

- · Seafood, meat and poultry processing
- · Fruit, nut and vegetable processing
- · Confectionery
- · Electronics



6.35mm x 1.27mm 77% Open Area

FOR BELT DATA SEE PAGE 7

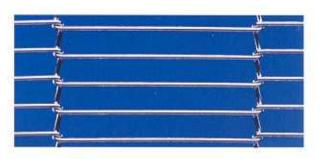


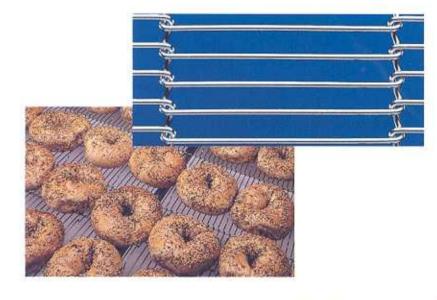
6.4mm x 1.4mm 76% Open Area

- · Medium Duty.
- · Used for Batter Enrobers & Shuttle Conveyors
- · Seafood, meat and poultry processing
- · Fruit, nut and vegetable processing

7.26mm x 1.27mm 80% Open Area

- · Seafood, meat and poultry processing
- · Fruit, nut and vegetable processing
- · Bakery
- · Snack Foods
- · Electronics processing
- · Silk screen printing





7.26mm x 1.57mm 75% Open Area

- Capable of carrying up to 11 Kg/M²
- Seafood, meat and poultry breading, battering and frying
- · Fruit, nut and vegetable processing
- · Snack food preparation
- Electronics and automotive parts manufacturing
- Textiles
- · Freezing and drying processes

Enquire about PTFE coated Belting

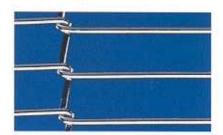
9.6mm x 2.08mm 75% Open Area

- Load carrying up to 48.8 Kg/M²
- · Speeds up to 25 mtr/min
- · Commercial fryers, broilers, ovens, toasters
- · Breading and battering machines
- · Bagel boilers
- · Pasta cookers
- · Printed circuit board reflow machines
- Dryers



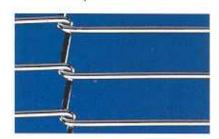
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12mm x 1.83mm 81% Open Area

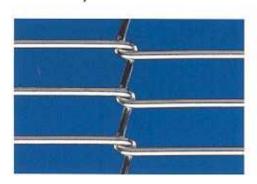


- · Commercial fryers and broilers
- · Breading and battering machines
- · Pizza ovens
- · Tiered cooling conveyors
- · Curing Ovens
- · Plastic thermoforming
- · Textile sizing

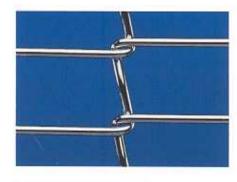
12.7mm x 1.83mm 82% Open Area



12.7mm x 2.34mm 78% Open Area



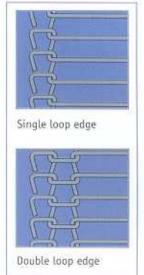




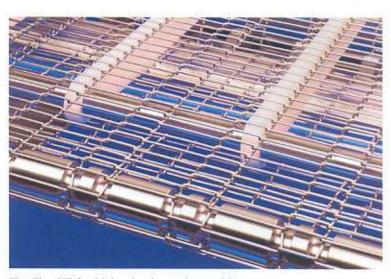
20.32mm x 2.34mm 85% Open Area

- · Fruit, nut and vegetable processing
- · Commercial pizza ovens
- · Seafood and meat preparation

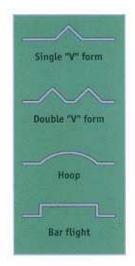
Enquire about other types of Wire Belting



FOR BELT DATA SEE PAGE 7



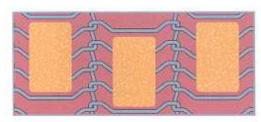
Flat-Flex XT for higher load carrying and longer conveyors. Leaflet available on request.



Flat-Flex® Special Purpose Beltings

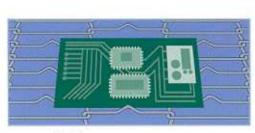
Wire Belt engineers can help you with special applications - conveying up inclines, maintaining product separation, minimising point contact or keeping product in line.

Compound belts incorporate specially formed strands in predetermined locations in the belt. 'Flights' are available in standard and custom shapes. Different shapes can be mixed to create guides or 'pockets' that isolate easily damaged products.



aligned belt

Aligned belts are used to convey products in specific rows.



compound belt



crowned belt



reverse crown belt



Standard Belt Data

This is an extract from our full range of Flat-Flex belting

| Pitch & Wire Diameter (mm) | Nominal belt thickness at joint (mm) | Average weight per sq.metre | Max. helt load per sq. metre (kg.) * | Max. belt tension per space (Newtons) | Grooved Transfer | | Min, reverse | Speed | Typical |
|----------------------------------|--|-----------------------------------|---|--|--|---|--------------------------|---|------------------|
| | | | | | Min, transfer roll diameter (mm) | Grooved Depth [mm] [Includes Clearance] | bend dianeter (mm) | range for optimum belt life (m.p.m.) | open area (%) |
| 4.24 x 0.89 | 2.4 | 1.3 | 2.4 | 13.4 | 12 | 3.0 | 43 | 0-5 | 77 |
| 4.30 x 1.27 | 3.2 | 2.6 | 7,3 | 44.5 | 12 | 3.0 | 43 | 0:10 | 67 |
| 5.64 x 0.89 | 2.4 | 1:0 | 1.7 | 13.4 | 12 | 3.5 | 57 | 0-5 | 82 |
| 6.0 x 1.27 | 3.2 | 1.9 | 4.9 | 44.5 | 36 | (40 | 60 | 0-10 | 76 |
| 6,35 x 1.27 | 3.2 | 2.0 | 4.9 | 44.5 | 16 | 4 | 64 | 0-10 | 77 |
| 6,40 x 1,40 | 3.6 | 2.7 | 7.0 | \$5.0 | 20 | 4 | 64 | 0-10 | 76 |
| 7.26 x 1.27 | 3.2 | 1.6 | 4.9 | 44.5 | 16 | 4 | 73 | 0-10 | 80 |
| 7.26 x 1.57 | 4.1 | 2.5 | 0.11 | 66.7 | 19 | 4 | 7.3 | 0-15 | 75 |
| 9.60 x 2.08 | 5,2 | 3,5 | 48.8 | 97.8 | 25 | 5 | 96 | 0-25 | 75 |
| 12.0 x 1.83 | 4.5 | 2,3 | 29.3 | 80.0 | 29 | 6.5 | 120 | 0-20 | .81 |
| 12.7 x 1.83 | 4.5 | 2.2 | 29.3 | 80.0 | 29 | 6.5 | 127 | 0-20 | 82 |
| 12.7 x 2.34 | 4.8 | 3.6 | 49.0 | 133.4 | 38 | 6.5 | 127 | 0-25 | 78 |
| 20.32 x 2.34 | 4.8 | 2.6 | 39.0 | 133,4 | 38 | 6.5 | 203 | 0-25 | 85 |

- * Assuming correct belt support and subject to limiting belt tension
- ** Recommended for optimum belt life Note: Belt Width available up to 4.5 meters

Flat-Flex® belts are available in over 60 different combinations of pitch and wire diameter. Most belts can usually be supplied either in Stainless Steel 1.4310 (302) or Music Wire (carbon steel). Other materials are available; also belts can be supplied coated with PTFE.



Spreading and Converging conveyors can be designed to suit most situations. Our Technical Sales department would be pleased to discuss your particular requirements.



Flex-Turn* conveyors are available as standard with inside radii of 406mm or 812mm and as 90° or 180°. Custom angles from 45° can be produced.

Contact Technical Sales Tel: +44 (0)1795 421771 Fax: +44 (0)1795 428905 e-mail: sales@wirebelt.co.uk

Selection of standard sprockets & blanks for Flat-Flex belts

| Pitch (mm) | Wire Dia. (mm) | Outside Dia. (A) (mm) | Root Dia. (B) (mm) | Bore Dia. (C) (mm)* | No. of Teeth |
|----------------------|----------------------|--|--|--|--|
| 4.24 4.30 4,30 | 0.89 1.00 1.27 | 50,80 | 46,99 | 20 | 34 |
| 5.64 | 0.89 1.00 | 50.80 76.20 76.20 | 45.72 70.00 70.00 | 20 20 25 | 25 39 39 |
| 6.0 | 1,27 | 50.70 74.83 | 45.66 69.75 | 20 25 | 24 36 |
| 6.35 | 0.89 1,00 1.27 | 50.80 76.20 76.20 | 44.19 71.12 71.12 | 20 20 25 | 22 35 35 |
| 6,4 | 1.4 | 50.27 74.85 | 45.19 69.77 | 20 25 | 22 34 |
| 7.26 1.27 1.57 | | 31.75 50.80 50.80 57.15 76.20 76.20 | 27.43 45.72 45.72 50.80 68.58 68.58 | 16 20 25 20 20 20 25 | 12 20 20 20 22 29 29 |
| 9.6 | 2.08 | 74.88 | 67.26 | 25 | 22 |
| 12.0 1.83 | | 49.25 72.00 | 41.63 64.39 | 20 25 | 11 17 |
| 12.70 1.83 2.34 | | 50.80 50.80 76.20 76.20 | 44.95 44.95 68.58 68.58 | 20 25 20 25 | 11 11 17 17 |
| 20.32 | 2,34 | 76.20 76.20 | 65.53 65.53 | 20 25 | 10 10 |

Outside diameter of blank = Root diameter of sprocket

Standard Material Available:

Enquire about joining tools

(1) Polyacetal

(2) Stainless Steel

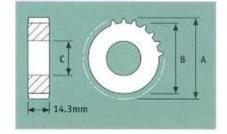
"Imperial equivalent also available

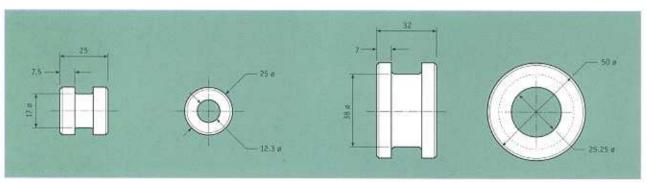
Standard

All sprockets are precision made, deburred and finished. Sprockets have two tapped holes, provided at a nominal 90° to each other. Blanks have a single tapped hole. Both sprockets and blanks are fitted with socket head set screws.

Non standard

Special sprocket and blanks in alternative materials and sizes may be supplied on request. We undertake sprocket reboring and keyway cutting at extra cost.





To Suit 12 mm dia, shaft*

Transfer Roller

To Suit 25 mm dia. shaft*

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