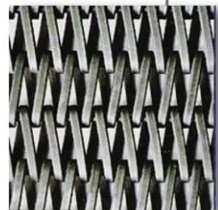


Metallic Wire Conveyor Belts For All Process Applications



# About Us

## Umda Engineering

**U**mda Engineering fuses together an essential mixture of cutting edge technology and years of industry experience, to ensure our clients get nothing but the best when it comes to the manufacturing, installation and maintenance of Metallic Belts and Conveyors and Glass Plant Equipment.

**Mr. M.D. Farooq**, the founder of Umda Engineering, brings to the table more than 35 years of expertise in the manufacturing industry. Starting from humble beginnings, today more than 350 of Mr. Farooq's Lehr machines are successfully installed around the world.

Mr. Farooq is best recognised as one of the co-founders of TNF Engineering, a company known across the industry as not only the leading manufacturers of **Metallic Conveyor belts** but also of **Glass Plant Equipment**. This mantle of superior performance and expertise has now been passed on to Umda Engineering.



# Specification of Products

## Specification of Mesh Belting:

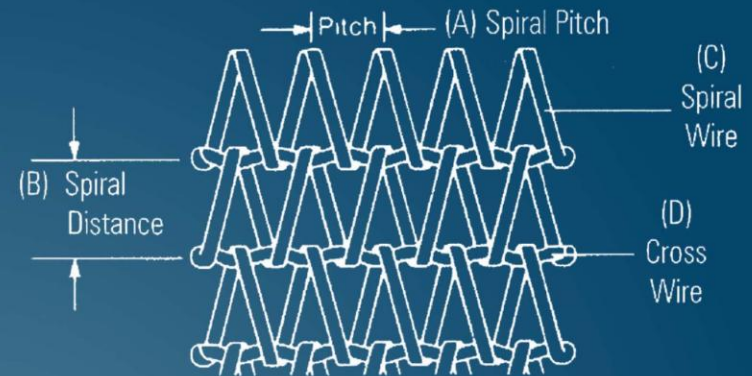
Wire Conveyor belt are specified by:

Number of spiral coils per feet of belt width. (A)

Number of cross members per feet of belt length. (B)

Specification of spiral coil wires. (C)

Specification of Cross wires. (D)



| Designation  | Chromium      | Nickel           | Iron | Carbon (Max) | Silicon (Max) | Manganese (Max) | Other Element | Max Ope. Tem. |
|--------------|---------------|------------------|------|--------------|---------------|-----------------|---------------|---------------|
| H.C. Steel   |               |                  | Bal  | 0.37- 0.44   | 0.15 - 0.30   | .60 .90         |               | 550°C         |
| Chrome Steel | 2.75 - 3.25   | -                | Bal  | 0.15         | 1.00 1.40     | .50 Max         | Mo .45 .65    | 620°C         |
| AISI 410     | 11.50 - 13.50 | -                | Bal  | 0.15         | 1.00 Max      | 1.00 Max        |               | 650°C         |
| AISI 430     | 14.00 - 18.00 | -                | Bal  | 0.12         | 1.00 Max      | 1.00 Max        |               | 680°C         |
| AISI 304     | 18.00 - 20.00 | 8.00 - 12.00     | "    | 0.08         | 1.00 Max      | 2.00 Max        |               | 700°C         |
| AISI 304 L   | 18.00 - 20.00 | 8.00 - 12.00     | "    | 0.08         | 1.00 Max      | 2.00 Max        |               | 700°C         |
| AISI 316     | 16.00 - 18.00 | 10.00 - 14.00    | "    | 0.08         | 1.00 Max      | 2.00 Max        | Mo 2.00-3.00  | 700°C         |
| AISI 316 L   | 16.00 - 18.00 | 10.00 - 14.00    | "    | 0.03         | 1.00 Max      | 2.00 Max        | Mo 2.00-3.00  | 700°C         |
| AISI 321     | 17.00 - 19.00 | 9.00 - 12.00     | "    | 0.08         | 1.00 Max      | 2.00 Max        | Ti5 x C Min   | 800°C         |
| AISI 310     | 24.00 - 26.00 | 19.00 - 22.00    | "    | 0.25         | 1.50 Max      | 2.00 Max        |               | 1000°C        |
| AISI 310 S   | 24.00 - 26.00 | 19.00 - 22.00    | "    | 0.08         | 1.50 Max      | 2.00 Max        |               | 1000°C        |
| AISI 314     | 23.00 - 26.00 | 19.00 - 22.00    | "    | 0.15         | 2.0 - 3.0     | 2.00            | Cb            | 1050°C        |
| AISI 330     | 14.00 - 16.00 | 33.00 - 36.00    | "    | 0.25         | 1.0           | 2.00            |               | 1080°C        |
| Inconel 600  | 14.00 - 17.00 | 72.00 - Min 6.10 | "    | 0.15         | .50 Max       | 1.00 Max        | Cu. .50Max    | 1150°C        |
| Ni.Chrome    | 19.00 - 21.00 | 77.00 - 79.00    | "    | 1.00 Max     | .75 -1.50 Max | 2.50 Max        |               | 1150°C        |

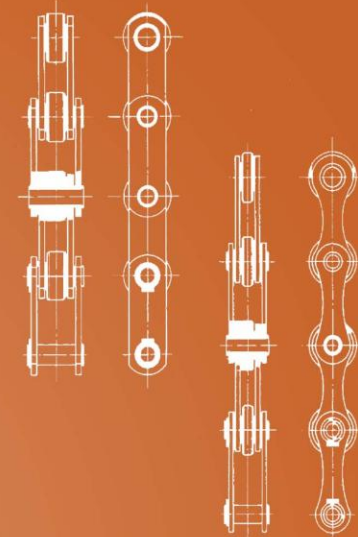


# Specification of Products

## Specification for Chain Edge Beltings:

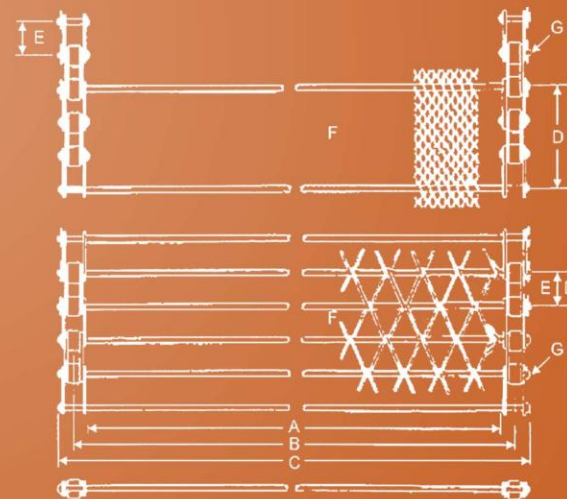
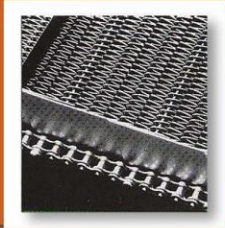
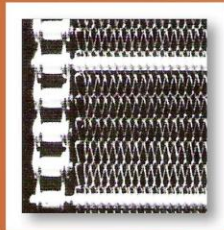
Chain edge belts are specified as under

- A. Effective belt width
- B. Chain C/C
- C. Overall belt pitch
- D. Cross rod pitch
- E. Chain pitch
- F. Mesh belting specification (See above for mesh belting specification)
- G. End connection details



## Chain Edge Beltings:

Chain edge are used with mesh belts where positive drive is needed for controlled belt tracking, where belt passes through liquid eg. Quenching, frying, or other applications.



# Specification of Products

## Z-47

articulated wire band for  
biscuit baking ovens



## Laminated Link Belting:

These are series of modules linked with cross connecting rods to form a very flat and thin surface which is useful for various food process application like baking, chilling, beer pasteurizing, etc.



## CLOSED PITCH BELTS

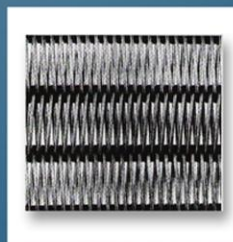
The Spirals in this type of belt design are very closely wound or pitched to form a semi closed Mesh. The closeness of the spirals results in straight cross rods being used for connection. These Belts can be effectively used in low temperature light duty jobs in high speed conveyors.

### T-7 TYPE CLOSED PITCH BELTS



| Specifications     | Mesh Size | Spiral Wire DIA in MM | Cross Rod DIA in MM |
|--------------------|-----------|-----------------------|---------------------|
| T-7 : 72 -69-16    | 6         | 1.6                   | 1.6                 |
| T-7 : 72-60-10-14  | 6         | 1.6                   | 2.                  |
| T-7 : 60-40-14-12  | 5         | 2.0                   | 2.60                |
| T-7 : 60-24-14     | 5         | 2.0                   | 2.0                 |
| T-7 : 144-96-22-20 | 12        | 0.64                  | 1.0                 |

### T-8 TYPE CLOSED PITCH BELTS



| Specifications    | Mesh Size | Spiral Wire DIA in MM | Cross Rod DIA in MM |
|-------------------|-----------|-----------------------|---------------------|
| T-8 : 35-30-10    | 3         | 3.25                  | 3.25                |
| T-8 : 35-18-12-10 | 3         | 2.64                  | 3.25                |
| T-8 : 42-18-12    | 3-1/2     | 2.60                  | 2.60                |
| T-8 : 42-22-12-10 | 3-1/2     | 2.60                  | 3.25                |
| T-8 : 48-47-14    | 4         | 2.0                   | 2.0                 |

**Belt Specifications:** T-X : A-B-C-D

T-X = Belt Type

A = Nos. of Spiral per feet width.

B = Nos. of Crosswire per feet length

C = Dia. Of Spiral wire in MM

D = Dia. Of Crosswire in MM



## Balance Weave Belts

These are the most commonly used Belts in almost all the industries like food processing, glass, ceramic, metal working industries etc. This type of weave consists of a left and right spiral linked together with a crimped cross rod. The Stresses on both the sides are evenly balanced resulting in a smooth straight riding belt with minimum of expansion along the length or width.

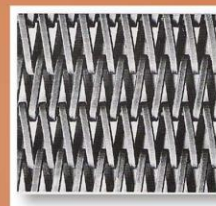
### T-3 TYPE COMPOUND BALANCED BELTS



**Note:** Circled figure denotes nos. of cross rpd set of coil.

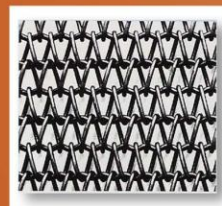
| Specifications              | Spiral Wire DIA in MM | Cross Rod DIA in MM |
|-----------------------------|-----------------------|---------------------|
| T-3 : 2 - 36 - 86 - 16      | 1.60                  | 1.60                |
| T-3 : 2 - 48 - 94 - 16      | 1.60                  | 1.60                |
| T-3 : 2 - 69 - 114 - 18     | 1.20                  | 1.20                |
| T-3 : 2 - 28 - 71 - 14      | 2.00                  | 2.00                |
| T-3 : 2 - 26 - 80 - 14 - 16 | 2.00                  | 1.62                |

### T-5 TYPE BALANCE WEAVE BELTS

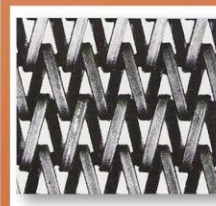


| Specifications (Round / Flat) | Mesh Size | Spiral Wire DIA in MM | Cross Rod DIA in MM |
|-------------------------------|-----------|-----------------------|---------------------|
| T-5 : 60 - 48 - 16            | 5         | 1.60                  | 1.60                |
| T-5 : 60 - 48 - 14F           | 5         | 2.00                  | 1.20                |
| T-5 : 60 - 42 - 16            | 5         | 1.60                  | 1.60                |
| T-5 : 60 - 38 - 14            | 5         | 2.00                  | 2.0                 |
| T-5 : 60 - 48 - 16 - 14       | 5         | 1.60                  | 2.0                 |

### T-16 TYPE BALANCE WEAVE BELTS



| Specifications (Round / Flat) | Mesh Size | Spiral Wire DIA in MM | Cross Rod DIA in MM |
|-------------------------------|-----------|-----------------------|---------------------|
| T-16 : 36 - 22 - 12           | 3         | 2.60                  | 2.60                |
| T-16 : 36 - 22 - 12 - 10      | 3         | 2.60                  | 3.25                |
| T-16 : 36 - 24 - 14           | 3         | 2.00                  | 2.00                |
| T-16 : 36 - 20 - 14 - 12      | 3         | 2.00                  | 2.60                |
| T-16 : 36 - 32 - 16           | 3         | 1.60                  | 1.60                |



### T-19 TYPE BALANCE WEAVE BELTS

| Specifications (Round / Flat) | Mesh Pitch | Spiral Wire DIA in MM | Cross Rod DIA in MM |
|-------------------------------|------------|-----------------------|---------------------|
| T-19 : 24 - 20 - 10           | 1/2*       | 3.25                  | 3.25                |
| T-19 : 24 - 20 - 12 - 10      | 1/2*       | 2.60                  | 2.60                |
| T-19 : 24 - 22 - 12           | 1/2*       | 2.60                  | 2.60                |
| T-19 : 24 - 27 - 12           | 1/2*       | 2.60                  | 17.20               |
| T-19 : 24 - 21 - 14           | 1/2*       | 2.00                  | 2.00                |

**Belt Specifications:** T-X : A-B-C-D

T-X = Belt Type

A = Nos. of Spiral per feet width.

B = Nos. of Crosswire per feet length

C = Dia. Of Spiral wire in MM

D = Dia. Of Crosswire in MM

## ROD REINFORCED BELTS

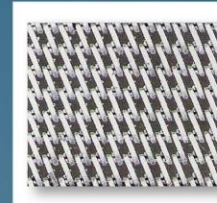
The Rod reinforced Belts consists of relatively elongated spiral woven together and reinforced by inserting a straight cross rod between them. These belts can withstand high tensile strength at elevated temperatures with very little elongation length wise or width wise.

### T-9 TYPE ROD REINFORCED BELTS



| Specifications     | Mesh Size | Spiral Wire DIA in MM | Cross Rod DIA in MM |
|--------------------|-----------|-----------------------|---------------------|
| T-9 : 11 - 12 - 08 | 1"        | 4.0                   | 4.0                 |
| T-9 : 11 - 8 - 12  | 1"        | 2.60                  | 2.64                |
| T-9 : 12 - 12 - 8  | 1"        | 4.0                   | 4.0                 |
| T-9 : 12 - 12 - 10 | 1"        | 2.60                  | 3.25                |
| T-9 : 12 - 14 - 10 | 7/8"      | 3.25                  | 3.25                |

### T-11 TYPE ROD REINFORCED BELTS



| Specifications      | Mesh Size | Spiral Wire DIA in MM | Cross Rod DIA in MM |
|---------------------|-----------|-----------------------|---------------------|
| T-11 : 21 - 24 - 10 | 1/2"      | 3.25                  | 3.25                |
| T-11 : 23 - 22 - 12 | 1/2"      | 2.60                  | 2.60                |
| T-11 : 24 - 36 - 12 | 3/8"      | 2.60                  | 2.60                |
| T-11 : 26 - 28 - 12 | 3/8"      | 2.60                  | 2.60                |
| T-11 : 28 - 30 - 14 | 3/8"      | 2.0                   | 2.0                 |

### Conventional Link Belts

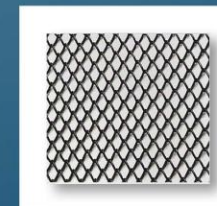
Conventional links belts are a series of right or left hand spirals each turned into the previous spiral to form a continuous belt. These type of belts are basically low load bearing belts and can be used in low temperature only. These belts are generally used in pharmaceutical, confectionery, fishery industry, where high air circulation and water drainage through belt is required.

### T-1 TPYE CONVENTIONAL INK BELTS



| Specifications | Mesh Size | Spiral Wire DIA in MM |
|----------------|-----------|-----------------------|
| T-1 : 16/08    | 3/4       | 4                     |
| T-1 : 16/10    | "         | 3.25                  |
| T-1 : 16/12    | "         | 2.6                   |
| T-1 : 16/14    | "         | 2.0                   |
| T-1 : 16/16    | "         | 1.6                   |

### T-2 TPYE CONVENTIONAL INK BELTS



| Specifications | Mesh Pitch | Spiral Wire DIA in MM |
|----------------|------------|-----------------------|
| T-2 : 8/12     | 1-1/2"     | 2.6                   |
| T-2 : 8/12     | 1-1/2"     | 3.25                  |
| T-2 : 8/8      | 1-1/2"     | 4.00                  |
| T-2 : 8/6      | 1-1/2"     | 5.00                  |
| T-2 : 8/4      | 1-1/2"     | 4.75                  |

**Belt Specifications:** T-X : A-B

T-X = Belt Type

A = Nos. of Spiral per feet width.

B = Nos. of Crosswire per feet length



## Office & Works

Plot No. A – 581, TTC Industrial Area,

MIDC Mahape, Navi Mumbai – 400 710, MS, India.

Tel.: 022-2778 20 41/42, Fax : 022-2778 13 38

e-mail: [info@umdaengg.com](mailto:info@umdaengg.com) | [www.umdaengg.com](http://www.umdaengg.com)