



MANAGING YOUR  
FEED DISTRIBUTION  
WITH FLEXIBILITY

## FLATTENED WIRE



# Technical Systems

MARKET LEADER IN  
FEED CONVEYING

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# FLATTENED WIRE

Technical Systems adds value by controlling the entire production process, from the flattening to the heat treatment stage to ensure a reliable and durable product. Flattened wire is used to produce auger spiral.

## Attributes & Dimensions

**Material type:** Tempered Flat Wire

**Quality control:**

- **Input raw material:**  
Material acceptance inspections of rod diameter, ovality and physical defects, with material steel grade verification.
- **Flat wire width & thickness dimensions:**  
Continuous measurements to ensure correct dimensions.
- **Wire heat treatment and Hardness:**  
Electronic and computerised readings to continuously measure the line speed, quenching, soaking and temper temperatures. Hardness tests per coil and re-checked at final packing.
- **Visual:**  
Checks for possible deforming of product.
- **Packing checks:**  
ISPM fumigation certificate, wrapping strength, covered in cloth to absorb excess oil, strapped.

**Lubrication:** To prevent corrosion.

**Hardness:**

| TYPE            | HRc      |
|-----------------|----------|
| 8.00 x 3.85 mm  | 40 ± 1.5 |
| 8.00 x 3.85 mm  | 43 ± 1.5 |
| 10.50 x 4.00 mm |          |
| 12.00 x 4.00 mm |          |
| 14.00 x 5.20 mm |          |

**Dimensions:**

| TYPE 8.00 x 3.85 mm |      | Tolerances (mm) | Min (mm) | Max (mm) |
|---------------------|------|-----------------|----------|----------|
| FLAT WIRE WIDTH     | 8.00 | [± 0.2]         | 7.80     | 8.20     |
| FLAT WIRE THICKNESS | 3.85 | [± 0.1]         | 3.75     | 3.95     |

| TYPE 10.50 x 4.00 mm |       | Tolerances (mm) | Min (mm) | Max (mm) |
|----------------------|-------|-----------------|----------|----------|
| FLAT WIRE WIDTH      | 10.50 | [± 0.2]         | 10.3     | 10.7     |
| FLAT WIRE THICKNESS  | 4.00  | [± 0.1]         | 3.9      | 4.1      |

| TYPE 12.00 x 4.00 mm |       | Tolerances (mm) | Min (mm) | Max (mm) |
|----------------------|-------|-----------------|----------|----------|
| FLAT WIRE WIDTH      | 12.00 | [± 0.3]         | 11.7     | 12.3     |
| FLAT WIRE THICKNESS  | 4.00  | [± 0.15]        | 3.85     | 4.15     |

| TYPE 14.00 x 5.20   |       | Tolerances (mm) | Min (mm) | Max (mm) |
|---------------------|-------|-----------------|----------|----------|
| FLAT WIRE WIDTH     | 14.00 | [± 0.3]         | 13.7     | 14.3     |
| FLAT WIRE THICKNESS | 5.20  | [± 0.15]        | 5.05     | 5.35     |



## Packing Configuration

**Pallet Flat Wire Coil Dimensions**

(depending on weight of coil):

**Inside diameter:** min 900mm,

**Outside diameter:** max 1300 mm, Height: 360 – 425mm.

**Weight:** up to 2,000kg per coil. Packed eye to the sky.

1 x 6 m (20ft) container = maximum range from 19 – 25 tons, depending on allowable tonnage permitting per country.

**Pallets are strapped, wrapped and covered with a cloth to prevent lubrication spilling.**



## Combined Shipments of Feed Chain, Auger, Corner units & Flat Wire - a competitive advantage!

To maximise shipments and assist with your flexibility, "mini pallets" of Feed Chain can be packed inside the Auger Coils. This allows for full containers of various products, combined with flat wire at no additional shipping costs, thus optimizing space and decreasing unit costs.

Please enquire about packing combinations.

Visit [www.technicalsys.com](http://www.technicalsys.com) for more specifications.