

**KEILIND**

**FLAT WIRES  
SQUARE WIRES  
RECTANGULAR &  
TRAPEZOIDAL WIRES**

**Kalpatech Engineers &  
Industries Ltd.**

An IATF 16949:2016 Certified Company



# Description

## Flat Wire

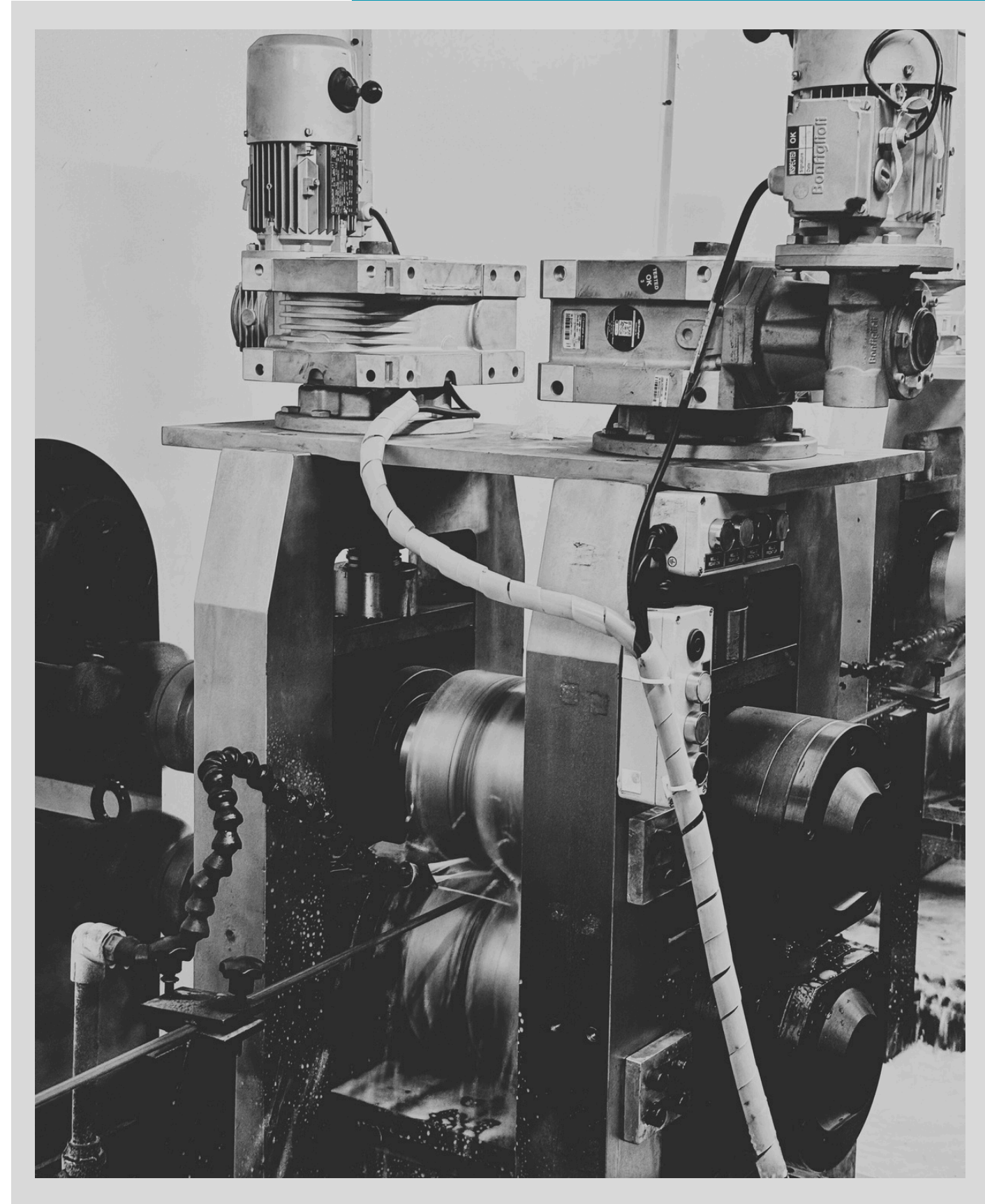
Flat wire has a rectangular cross-section with natural round radius and are used in springs, automotive systems, and medical devices where space is limited.

## Square / Rectangular Wire

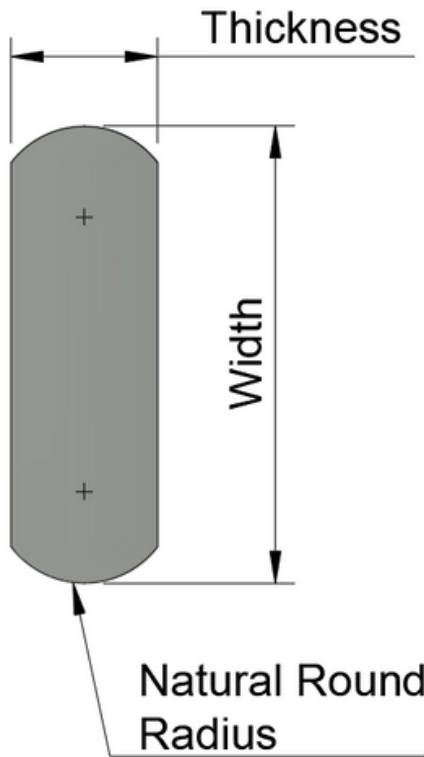
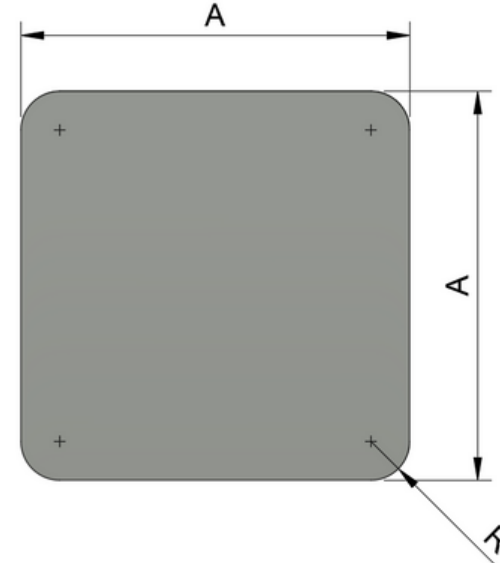
Square and rectangular wires are 4 side rolled and are used in mechanical springs, electrical motor cores, continuous transposed conductors etc.

## Trapezoidal Wire

Trapezoidal wire has a trapezoid-shaped cross-section for making tightly packed springs, circlips, retainer rings & keystone wires etc.



# Our Range of Flat & Square Wires

Flat Wire	Thickness*	Width*	Typical Uses	Square Wire	Side(A)*	R*
	0.20	0.70	Spring		1.00	0.15
	0.20	1.60	Side Rail of Piston		1.50	0.20
	0.25	1.90			1.60	0.20
	0.30	2.70	Wave Spring		2.20	0.30
	0.40	3.00			3.00	0.40
	0.50	4.00	Dipstick		3.20	0.40
	0.60	5.00			4.00	0.40
	0.70	3.50	Wiper Vertebra		5.00	0.40
	0.80	2.50			6.00	0.50
	1.60	9.00	Helical Torsional Spring		6.50	0.50
	7.00	12.00			7.00	0.50
Materials	Stainless Steel, High Carbon Steel, Low Carbon Steel, Copper & Copper based alloys, Aluminum & more.					
*Dimensions in mm.						

# Our Range of Rectangular Wires

Rectangular Wire	Thickness*	Width*	R*	Typical Uses	Supply Condition
<p>The diagram shows a rectangular wire cross-section with rounded corners. The dimensions are labeled as follows: 'Thickness' is the horizontal width of the flat top portion; 'Width' is the vertical height of the wire; and 'R' is the radius of the rounded corners. There are four small '+' symbols on the wire, two on the top edge and two on the bottom edge.</p>	0.70	1.50	0.15	Springs or Other Automotive Uses	In Coils, Spools or Cut-toLength Form
	1.00	1.70	0.20		
	1.30	2.85	0.20		
	1.60	2.60	0.30		
	2.00	3.85	0.40		
	2.85	7.30	0.40	Continuous Transposed Conductor	
	1.00	3.00	0.30		
	2.00	4.00	0.50		
	2.00	8.00	0.50		
	2.00	12.00	0.50		
3.00	12.50	0.70			
Materials	Stainless Steel, High Carbon Steel, Low Carbon Steel, Copper & Copper based alloys, Aluminum & more.				
*Dimensions in mm.					

# Our Range of Trapezoidal Wires

Trapezoidal Wire	Width*	T1*	T2*	R1,3*	R2,4*
	2.00	1.03	0.95	0.15	0.40
	5.00	2.55	2.41	0.10	0.35
	5.00	3.05	2.91	0.10	0.35
	6.00	2.55	2.41	0.10	0.35
	4.00	3.06	2.90	0.15	0.10
	4.00	2.03	1.93	0.15	0.10
	4.50	3.08	2.88	0.15	0.15
	4.50	3.60	3.36	0.20	0.20
	8.00	4.69	4.27	0.25	0.25
	6.17	3.05	2.72	0.35	0.35
	8.28	2.56	2.20	0.35	0.35
Materials	Stainless Steel, High Carbon Steel, Low Carbon Steel, Copper & Copper based alloys & more.				
*Dimensions in mm.					

# Certificates For Every Lot

1

## Mill Test Certificate

Document from Mill confirming material compliance with specifications, detailing composition and mechanical properties.

2

## Chemical Test Certificate

Verifies the material's exact chemical composition, ensuring it meets required standards and grades.

3

## Mechanical Test Certificate

Provides results from tensile, surface roughness and hardness tests to confirm the material's physical strength.

4

## VMM Test Certificate (Profile)

Validation report from Visual Measuring Machine (VMM) confirming accurate profile and dimensional adherence.

5

## Inspection Report for Each Coil

Comprehensive record of visual and dimensional checks performed on individual coils before release.

6

## Measurement Gauge Data

Width & Thickness data for each coil is recorded through the in-line measurement gauge and this data is provided in .csv format.

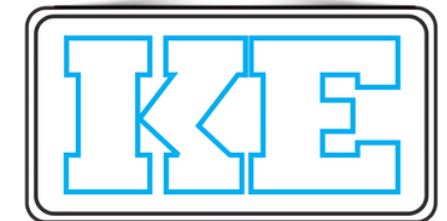
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## Profile Wires

### Dancerless Wire Flattening & Profiling Mills

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