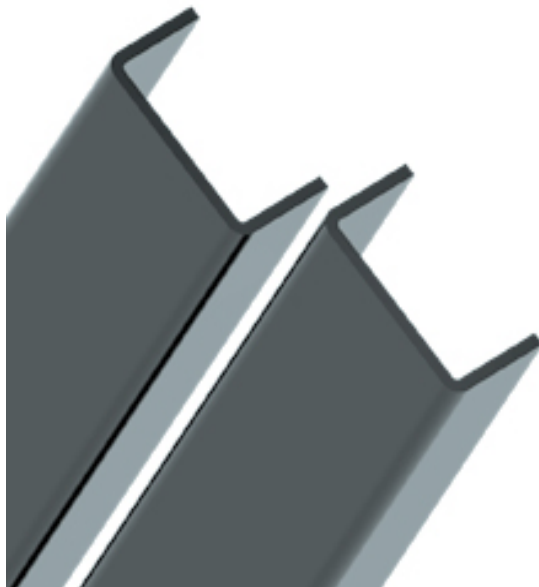


U sections Optim 700



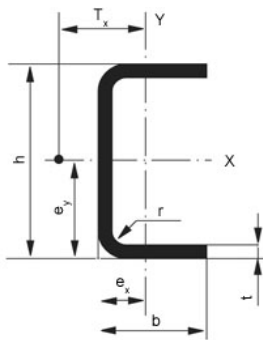
Ruukki's cold-formed steel sections are suitable for practically any kind of steel structure, whether for commercial or residential buildings, machines, or appliances.

The accuracy of the cross-sectional form and good formability for high-strength material make it possible to create long-lasting and light structures.

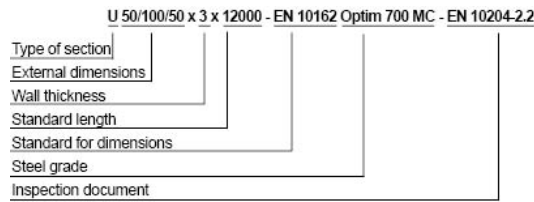
Applications:

- Building frames, composite and truss structures
- Frames, sub-frames and bodies of vehicles and trailers
- Railway wagons
- Warehouse equipment
- Masts for data transmission, TV and radio, power line pylons

Dimensions



Example of marking



h	b	t	r	A	A _u	M	X-X		Y-Y			
mm	mm	mm	mm	mm ² x 10 ²	m ² /m	kg/m	I mm ⁴ x 10 ⁴	W mm ³ x 10 ³	i mm x 10	I mm ⁴ x 10 ⁴	W mm ³ x 10 ³	i mm x 10
100	50	3	4	5.68	0.38	4.46	87.90	17.58	3.93	14.05	3.90	1.57
140	60	4	6	9.81	0.50	7.70	285.5	40.79	5.39	33.57	7.59	1.85
180	70	5	8	15.05	0.61	11.82	705.0	78.33	6.84	68.06	13.01	2.12

A = Cross-sectional area
A_u = External area

M = Weight
I = Second moment of inertia

W = Section modulus
i = Radius of gyration

h	b	t	I _d	I _w	S _y	i _p	e _x	e _y	T _x
mm	mm	mm	mm ⁴ x 10 ⁴	mm ⁶ x 10 ⁶	mm ³ x 10 ³	mm x 10	mm x 10	mm x 10	mm x 10
100	50	3	0,17	220	10,24	5,26	1,39	5,00	3,12
140	60	4	0,52	1030	24,08	6,71	1,57	7,00	3,53
180	70	5	1,25	3453	46,67	8,19	1,77	9,00	3,96

I_d = Torsion modulus S_y = Static moment, in direction y, of a cross-sectional area left on one side of the axis through the centroid

I_w = Inertia of warping T_x = Distance of centre of twist from centre of gravity (T_y = 0)

i_p = Radius of gyration, polar
Density = 7850 kg/m³

The table above shows the sections in stock.

Initial material	mm	Sections	mm
Thickness:	3.0-7.0	Width:	40-650
		Height:	15-180
		Length: (line-specific differences)	≤ 21 000

The table above shows dimension ranges for Optim 700 U-sections. Processibility of other than stock sections should be checked from technical support.

Tolerances

Ruukki manufactures this product according to tolerances specified in standard EN 10162. Customer-specific tolerances can be agreed on separately.

For the products not stocked, availability must be checked from the technical support.

- Our sales and technical support are happy to give you more information. Visit www.ruukki.com/contact-us.

The information on our web site is accurate to the best of our knowledge and understanding. Although every effort has been made to ensure accuracy, the company cannot accept any responsibility for any direct or indirect damages resulting from possible errors or incorrect application of the information of this publication. We reserve the right to make changes.

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