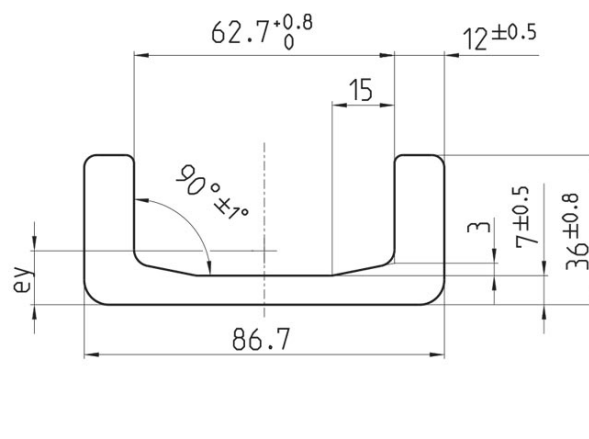


Material properties Standard U-profile **Standard 0 NbV**

- Hot rolled profile in sandblasted version.
- Profile is made from high-quality steel S450 J2 mod.
- Higher load capacity with new NbV-series
- Production-related straightness $\pm 1,0$ mm/meter.
- This profile is available as fine straightened style on request ($\pm 0,3$ mm per meter)
- L_{\max} = Maximum production length 12m

Technical drawing **Standard 0 NbV**



*The straightness for fine straightness profiles is $\pm 0,3$ mm per meter, Standard profiles $\pm 1,0$ mm per meter.



Resistance Moments Standard 0 NbV

Article number	m kg/m	A cm ²	Ix cm ⁴	Wx cm ³	Iy cm ⁴	Wy cm ³	ey cm	L _{max} in m
113.010.000	10,5	13,30	15,30	6,60	136,00	31,40	1,30	12

m = mass, A = surface, Ix = surface moment, Wx = resistance moment, Iy = surface moment, Wy = resistance moment, ey = distance measure of the y-angle, L_{max} = Maximum production length

WINKEL U-Profiles with 30% increased load capacity

- higher load capacity at same sizes by using profiles with steelgrade S450 J2 mod.
- choice of smaller sizes (price advantage)
- higher resistance against wear out effects

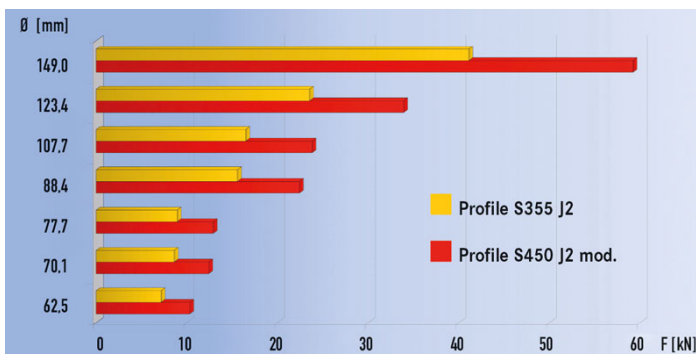
Comparison S355 J2 - S450 J2 mod.

Characteristic	S355 J2	S450 J2 mod.
Yield point 1	min 355 MPa [N/mm ²]	min 430 MPa [N/mm ²]
Yield point 2	min 345 MPa [N/mm ²]	min 420 MPa [N/mm ²]
Tensile strength	470 - 630 MPa [N/mm ²]	550 - 700 MPa [N/mm ²]
max. hertzian pressure	750 MPa [N/mm ²]	900 MPa [N/mm ²]

Notice: Yield point 1 is only valid for flange thickness < 20 mm, yield point 2 is only valid for flange thickness > 20 mm.

Because of micro alloying with Vanadium and/or Niobium the steel grade S450J2 mod. has a significantly higher tensile and yield strength and a more fine-grained structure than the customary steel grade S355 J2. In consequence of this and due to a stronger limitation of the elements P and S the steel shows a higher resistance to brittle fracture. Related to this is an increased bearing pressure which is shown by the diagram below.

Load capacity of radial bearings in comparison:





Instructional Video

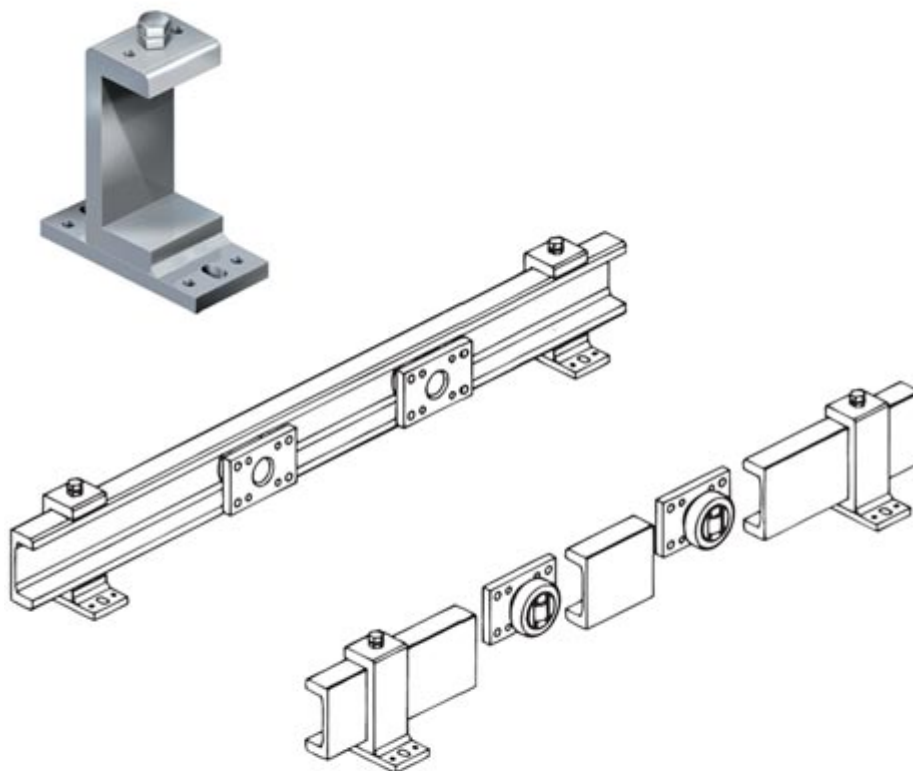
Fine straightening to U profiles





Matching Clampflange: **KF 0**

Article No. 290.003.000



Technical dimensions **Clamp flange KF 0**

H	B	L	S	J	e	g	t	a1	b1	d1	d2	d3	e1	M	Gewicht kg
121,3	60	130	10	88,5	44,5	41,0	10,8	100	40	6	11	18	20,5	M 10x30	1,6

H = Height clamp profile, B = Width clamp flange, L = Length clamp flange, S = mounting flange strength, g = Width clamp profile, t = Strength clamp profile, a1 = Distance pin hole, b1 = Distance pin hole, d1 = Diameter pin hole, d2 = Width slotted hole, d3 = Length slotted hole, e1 = Distance pin hole, M = Thread