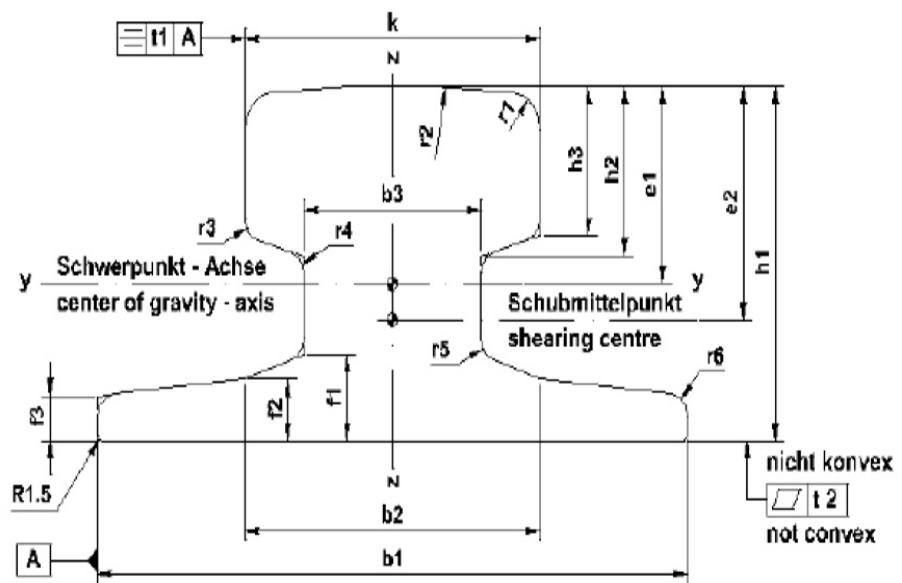


EUROPEAN RAIL A 45 – A 150 DIN 536-1

DIN is the German Industrial norm which defines the rail profile, the allowable deviations for the profile and the chemical composition.

The main feature of these crane rails is the wide and low rail web. The wide rail foot enables excellent load distribution. Ideally suited for continuously mounted rail installation. The rail is suited for equipment with guide rollers due to the vertical rail flanges.

nach DIN 536, Blatt 1
according to DIN 536, sheet 1



Nenngröße size	Abmessungen - dimensions (mm)																			
	k	b ₁	b ₂	b ₃	f ₁	f ₂	f ₃	h ₁	h ₂	h ₃	r ₁	r ₂	r ₃	r ₄	r ₅	r ₆	t ₁	t ₂		
A 45	45	125	54	24	14,5	11	8	55	24	20	4		3	4	5	4				
A 55	55	150	66	31	17,5	12,5	9	65	28,5	25	5	400	5	5	6	5	2	+0,8 0		
A 65	65	175	78	38	20	14	10	75	34	30	6			6	8			+0,8 0		
A 75	75	200	90	45	22	15,4	11	85	39,5	35	8	500							+0,8 0	
A 100	100		100	60	23	16,5	12	95	45,5	40				6						+1,0 0
A 120	120	220	120	72	30	20	14	105	55,5	47,5	10	600		10	10					+1,0 0
A 150	150		-	80	31,5	-		150	64,5	50			800	10	30	30				
PRI 85R MRS 87A	101,6	152,4	-	34,93	31,75	-	15,55	152,4	50,8	40	6,35	-	7,94	31,75	19,05	12,7	-	-		
MRS 125	120	180	-	40	40	-	21	180	64,75	52	6	-	10	32	20	10	-	-		

Chemical Composition

Note: The measurement method is decided by the manufacturer.

Profile	Tensile Strength N/mm ²	Carbon % mass	Silicon % mass	Manganese % mass	Sulfur % mass max	Phosphorous % mass Max
A45 to A150	690	0.4 – 0.6	0.35	0.80 -1.20	0.045	0.045
A75 – A100	880	0.6 – 0.8	0.5	0.80 – 1.30	0.045	0.045
A120 A150	880	0.55 – 0.75	0.5	1.30 – 1.70	0.045	0.045

Mechanical Testing

Tensile properties are determined in accordance with EN10002-1. The minimum strength requirements are as follows:

Grade	Minimum Yield MPa	Min. UTS MPa	Hardness HBN
690	335	690	204
880	440	880	260
90V	540	880	260
110 CrV	640	880	320

Tensile strength : The tensile strength may vary up to 20 N/mm² according to DIN