

# Single-blade tramway turnouts

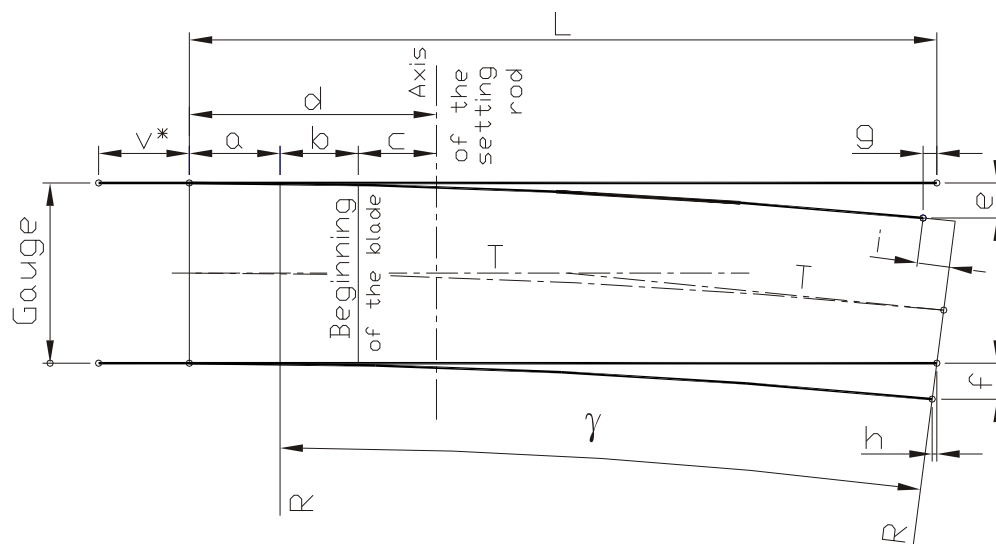
Single-blade tramway turnouts are made for right and left branching and can be used as trailing and facing, primarily in special constructions, such as gridirons in depots. They are constructed for use in the most demanding conditions of tramway tracks. They guarantee a high degree of passage safety, quiet function, are ecologically harmless and feature a long lifetime with minimum demands for maintenance.



Example of use

#### Securing:

- in cooperation with the facing or trailing direction setting system, automated or manual resetting of the turnout blade into the required direction and thus a safe tramway passage straight or in the branching direction
- the turnout construction enables the use of modern, unified setting devices with the setting and checking rod



Rail	R = 20 m		R = 25 m		R = 30 m		R = 50 m					
	Ri59, Ri59N, Ri60, Ri60N	NT1, NT3	Ri59, Ri59N, Ri60, Ri60N	Ri59, Ri59N, Ri60, Ri60N	Ri59, Ri59N, Ri60, Ri60N	Ri59, Ri59N, Ri60, Ri60N	Ri59, Ri59N, Ri60, Ri60N	NT1, NT3				
Gauge	1,000	1,435	1,000	1,435	1,000	1,435	1,000	1,435	1,000	1,435	1,000	1,435
L	4,500	4,500	3,400	3,400	4,500	4,500	4,000	4,000	5,000	5,000	4,660	4,660
v *	500	500	0	0	500	500	500	500	350	350	0	0
γ	11° 45' 11"	11° 53' 08"	9° 45' 18"	9° 45' 18"	9° 21' 16"	9° 26' 18"	7° 46' 06"	7° 49' 36"	5° 47' 14"	5° 48' 48"	5° 16' 25"	5° 16' 25"
	13.0589 g	13.2062 g	10.8390 g	10.8390 g	10.3938 g	10.4869 g	8.6322 g	8.8963 g	6.4305 g	6.4589 g	5.8595 g	5.8595 g
a	500	500	130	130	500	500	0	0	0	0	130	130
b	0	0	280	280	0	0	400	400	650	650	280	280
c	500	500	310	310	500	500	400	400	350	350	310	310
d	1,000	1,000	720	720	1,000	1,000	800	800	1,000	1,000	720	720
e	389	385	259	259	313	311	262	260	247	247	203	203
f	409	413	279	279	326	329	271	273	253	253	209	209
g	25	25	7	7	16	16	11	11	8	8	3	3
h	28	29	3	3	18	18	12	12	9	9	0	0
i	205	298	244	244	163	236	166	196	101	145	132	132
T	2,059	2,082	1,707	1,707	2,045	2,064	2,037	2,052	2,527	2,539	2,303	2,303

v \* is only in case of using electric heating type VDV

### Description:

The turnout is made of tramway rails of the profile required by the consumer (NT1, NT3, Ri60, Ri60N, Ri59, Ri59N, Ph37, NP4 etc.).

Blade half-turnout: The curved blade of the turnout can be replaced - for replacement, it is fastened with four M20x1.5 bolts and its position is secured with a tongue and groove connection, the bolt heads are secured against spontaneous release. The blade is made in UIC 900 quality or from abrasion-resistant manganese castings with 13% Mn or other similar materials. The basis of the turnout blade part forms a weldment that is welded along the entire length to the underlay steel sheet. The half-turnout rails are tightened to the sides of the frames and the underlay steel sheets with the help of M24 bolts. The rail part of the blade is tightened to the underlay steel sheet with M24 bolts and its position is fixed.

Blade-free half-turnout: The blade-free half-turnout is constructed as the weldment of rail parts and the block from rail BL 180/260 of quality UIC 800, or as a special weldment in more complicated rail constructions.

### Technical parameters:

track gauge	according to the customer's needs (1,435, 1,000, 1,600, 1,524 mm etc.)
rail profile	according to the customer's requirements (NT1, NT3, Ri60, Ri60N, Ri59, Ri59N, Ph37, NP4 etc.)
branching radius	standard is 20 m, 25 m, 30 m and 50 m or according to the customer's needs