



# Forged tongues centre of expertise

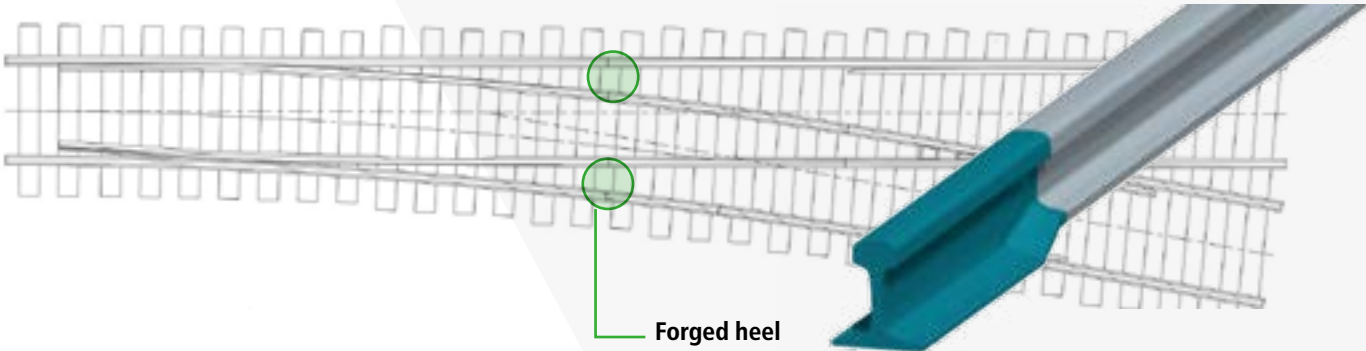
The world's largest production capacity for forged tongues

**vossloh**  
*enabling green mobility*

# Vossloh forged tongues centre of expertise

Vossloh is a world leader in production of points and crossings and their associated equipment, for all types of rail networks.

In both conventional and very high-speed rail applications, the forged tongue is a key component in track points and crossings. The profile of the switch rail is different from that of the connecting rail, which has a running profile. Forging is performed at the heel of the switch rail, enabling the intermediate railway to be welded to the adjacent rail.



Today, to meet the growing demand on the market, Vossloh can produce over 20,000 forged tongues a year

Founded in 1893, the Luxembourg site of Vossloh, Vossloh, has for decades manufactured forged tongues for the group as a whole, as well as for many national rail networks (DB, RFI, SNCF, etc.).

This is a demanding market, in terms of quality and safety, and Vossloh supplies forged tongues all over the world, to any standard required.

With this expertise, in 2007, Vossloh contributed to the record-breaking high speed railway journey by a train on the Paris-Strasbourg (France) line, crossing points at 560 km/hr.



# The forging unit brings together all the expertise and industrial excellence of Vossloh, in terms of quality, safety and environmental protection

By setting up this new, global centre of expertise, Vossloh has strengthened its position as a world leader in forged tongue manufacture.

Increasing its production capacity enables Vossloh to provide greater flexibility, and a faster response to its customers' needs.



## PRODUCTS

- Forged tongues, with long, semi-long or short heels
- Welded forged tongues

## Technical advantages

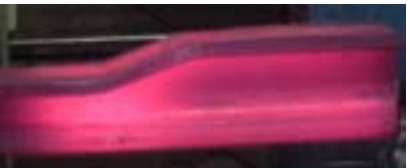
- Final non-destructive check on all parts, by ultra-sound and VTR, by qualified and certified operators
- Parts certified by independent laboratories to EN and international standards (EN 13232)

Several profiles and grades already available

| PROFIL        | GRADES                           |
|---------------|----------------------------------|
| 60E1A1/115RE  | R350HT                           |
| 60E1A1/60E1   | R260, R350HT, HH340              |
| 60E1A1/60E2   | R260, MHH                        |
| 60E1A1/AS60   | R350HT                           |
| 60E1A2/60E1   | R260                             |
| 60E1A4/60E1   | R260, R350HT, B320, 350 LHT, MHH |
| 60E1A5/60E1   | R260, R350HT, 260MN              |
| 60E1T1/60E1   | R260                             |
| 60E2A2/60E1   | R260                             |
| 60E2A2/60E2A1 | R260, R350HT                     |

| PROFIL      | GRADES               |
|-------------|----------------------|
| 54E1T2/54E1 | R260                 |
| 54E2A1/54E2 | R260, R350HT         |
| 54E4A2/54E4 | R260, R350HT         |
| 54E1A1/54E1 | R260                 |
| 54E1A1/56E1 | R260, HP             |
| 54E1A1/60E1 | R350HT               |
| 54E1A2/50E2 | R260, R350HT         |
| 54E1A2/50E3 | R260, R350HT, 350LHT |
| 54E1A2/54E3 | R260, R350HT         |
| 54E1A2/54E4 | R350HT               |
| 54E1A3/54E1 | R350HT               |

| PROFIL      | GRADES       |
|-------------|--------------|
| 49E1A1/45E2 | R260         |
| 49E1A1/46E1 | R260         |
| 49E1A1/46E2 | R260         |
| 49E1A1/49E1 | R260, R350HT |
| 49E1A1/50E2 | R350HT       |
| 49E1A1/54E3 | R260         |
| 49E1A1/54E4 | R350HT       |
| 49E1A5/49E5 | R260,R350HT  |



## MANUFACTURING PROCESS

- Induction heating
- Full computerized hydraulic forging (50,000 kN capacity)
- Heat treatment
- Straightening
- Machine-finished to required tolerance with self-adjusting clamping of the heel
- Flash-butt welding
- Grinding and shot-blasting
- Automatic feed

## Vossloh Switch Systems Luxembourg

17 Rue de l'Usine  
3754 Rumelange,  
Tel : +352 56 47 71 1



➤ Forge Schuler 2014



➤ Forge ACB 1991

## Wuhu China Railway Cogifer Track Co Ltd China

No. 558 South Jiuhua Road, Yijiang District  
Wuhu, Anhui 241131 China  
Wuhu Anhui Province 241131  
Tel : +86 553 563 7081

