

1 Q3 2025 Sales Overview

During Q3 2025, WR-ROLLS maintained stable growth in the field of roll vacuum heat treatment. Benefiting from increased manufacturing activity during the peak production season and the continued expansion of the ERW pipe industry, the Company's overall heat treatment business volume increased significantly compared with Q2 2025.

During the quarter, the Company continued to focus on vacuum heat treatment services for ERW pipe forming rolls, sizing rolls, high wear-resistant tool steel rolls, and precision tooling components.

Total heat treatment output during Q3 2025 reached:

2,241.568 tons

Representing the highest quarterly production volume in 2025 up to this stage.

Including:

- Standard Tool Steel: approximately 67.0%
- High Alloy Tool Steel: approximately 33.0%

This reflected the continuously increasing demand for high-performance vacuum heat treatment services and high wear-resistant roll products.

3 Q3 2025 Material Structure Analysis

During Q3 2025, SKD11 and Cr12 became the Company's primary processed materials, accounting for a significant proportion of the total quarterly production volume.

Among them:

- SKD11 high wear-resistant tool steel showed substantial growth during the quarter.
- Cr12 continued to be widely used for ERW forming rolls and sizing rolls.
- 65Mn remained stable in guide roll and auxiliary roll applications.
- H13 hot work tool steel continued to expand in high-temperature and heavy-load working positions.

As customers continued to demand longer roll service life, higher wear resistance, and greater dimensional stability, demand for high alloy tool steel heat treatment services further increased during Q3 2025.

6 Main Heat Treatment Products

The primary processed products during Q3 2025 included:

- ERW forming rolls
- Sizing rolls
- Guide rolls
- Straightening rolls
- High-frequency welding wear-resistant components
- High wear-resistant tooling and die components

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2 Q3 2025 Production Summary Results (tons)

Material Category	Q3 2025
Standard Tool Steel	1,501.762
High Alloy Tool Steel	739.806
Total Output	2,241.568

4 Q3 2025 Material Composition Ratio

Material	Ratio
SKD11	31%
Cr12	22%
65Mn	16%
H13	10%
GCr15	10%
9Cr2Mo	7%
Other	4%

5 Q3 2025 Sales Characteristics

- Q3 orders were mainly driven by peak-season production demand in the ERW pipe manufacturing industry.
- Demand for high alloy tool steel materials increased significantly compared with the first half of the year.
- SKD11 high wear-resistant materials showed strong growth due to increasing customer demand for longer roll service life and higher wear resistance.
- The proportion of vacuum heat treatment business continued to rise steadily, especially for high-performance tooling applications.
- Vacuum furnace operations remained stable throughout the quarter, ensuring excellent hardness consistency and dimensional stability.
- Demand for H13 hot work tool steel continued to grow in high-temperature working positions and heavy-load applications.
- The proportion of standard 65Mn materials declined slightly, reflecting the ongoing upgrade toward higher-performance roll materials.

7 Main Heat Treatment Processes

- Vacuum quenching
- High-temperature tempering
- Deep cryogenic treatment
- Stress relieving
- High-hardness stabilization treatment