

# Daikin Industrial Visit: Assembly Line & CSR Overview

On **19th February**, we visited the **Daikin manufacturing plant** to explore its **assembly line operations** and **manufacturing excellence**. The tour provided insights into key production stages, including **compressor assembly, heat exchanger production, control panel integration, and quality testing**.

We also observed **Japanese manufacturing principles** like **Kaizen and 5S**, highlighting Daikin's focus on **efficiency, precision, and sustainability** in HVAC production.



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# Daikin: A Global Leader in Air Conditioning

## History

Daikin's founding in 1924.  
Celebrating almost 100 years.

## Global Reach

Presence: North America,  
Europe, and Asia.

## Market Leader

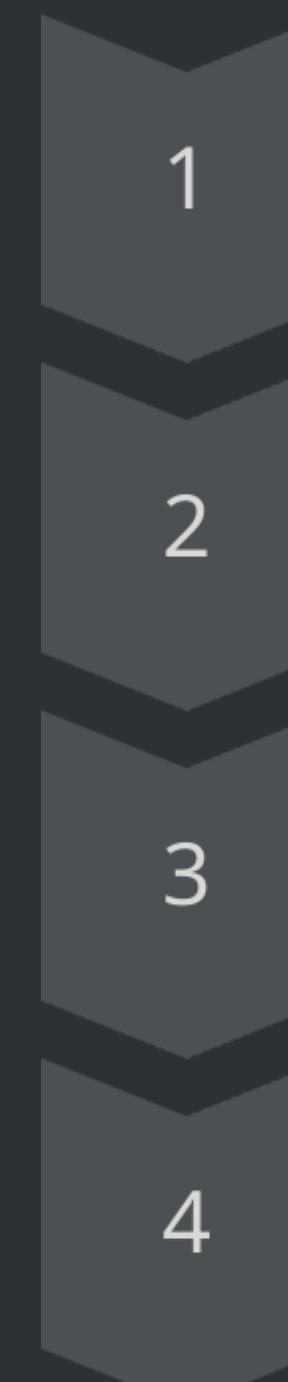
Strong market share in  
HVAC systems.

## Wide Range

Solutions for residential,  
commercial, and industrial  
needs.



# Manufacturing Process: Components to Completion



## Component Sourcing

Quality checks on compressors and control panels.

## Assembly Stages

Chassis assembly, piping, and wiring steps.

## Quality Control

Pressure and electrical safety tests.

## Lean Principles

Applications of Kanban and 5S.

# Factory Tour: Key Production Areas

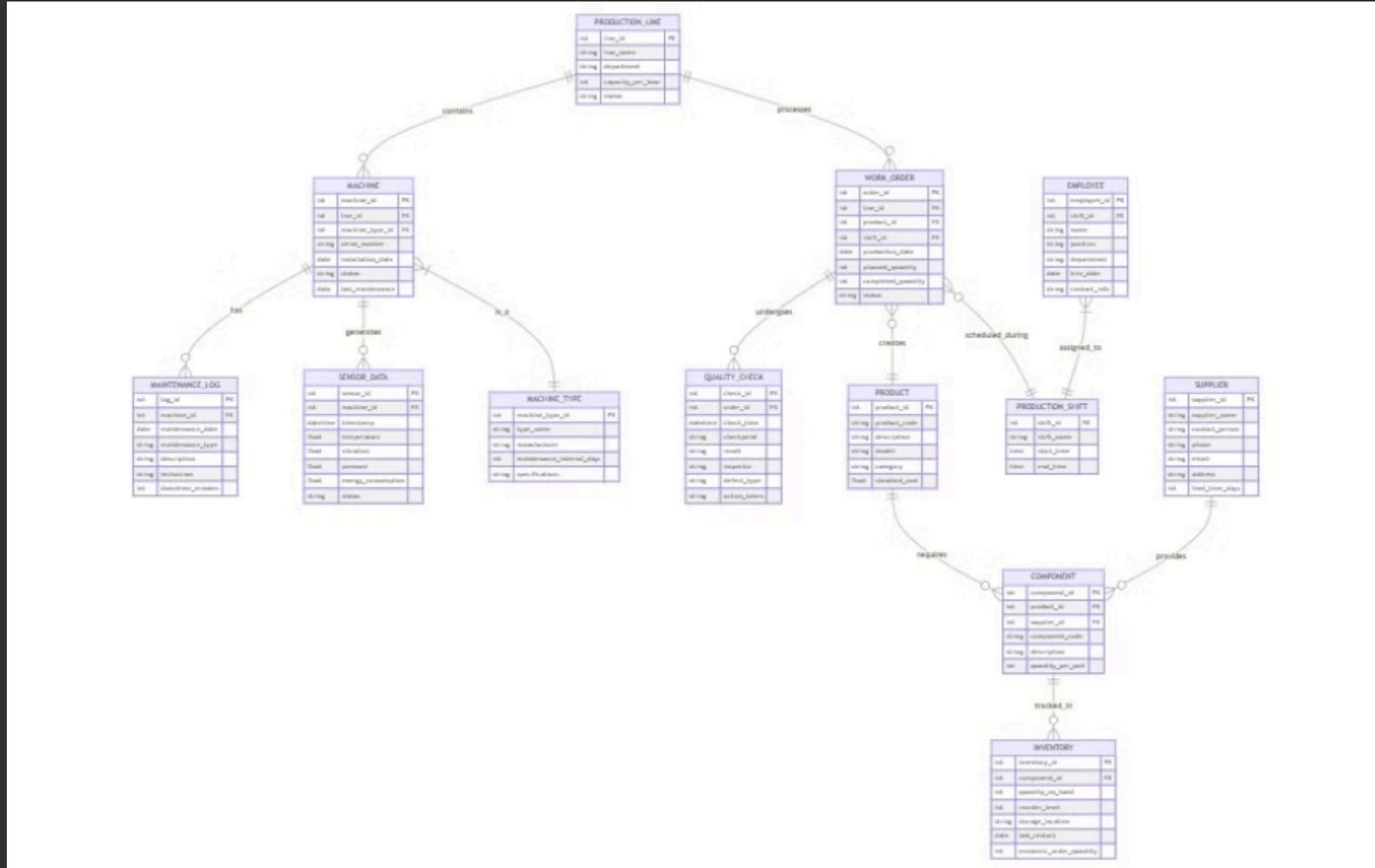


**Compressor Assembly:** Core of the HVAC system, where high-efficiency compressors are manufactured and integrated for optimal performance.

- ◆ **Heat Exchanger Production:** Precision engineering of coils and fins to ensure effective heat transfer and energy efficiency.
- ◆ **Control Panel Integration:** Advanced automation and electrical components are assembled for seamless system operation and smart controls.
- ◆ **Testing & Quality Assurance Lab:** Rigorous performance checks, safety tests, and compliance evaluations to meet industry standards.
- ⚙️ **Each stage reflects Daikin's commitment to innovation, precision, and quality in HVAC manufacturing.**



# ERD Diagram OF Daikin Neemrana Powerplant



This diagram illustrates the interconnected data points within a production line. It shows how machines, work orders, employees, and suppliers are linked through processes like quality checks, maintenance, and inventory management. Understanding these relationships is crucial for optimizing efficiency and identifying areas for improvement in the production process.



# CSR Initiatives: Community Engagement & Empowerment





# Observations and Learnings

- **Advanced HVAC Manufacturing:** Gained insights into Daikin's automated and semi-automated assembly line, lean manufacturing, and AI-driven process efficiency.
- ◆ **Japanese Manufacturing Excellence:** observed best practices like Kaizen, 5S, and quality control techniques at Daikin's facility.
- ◆ **Corporate Social Responsibility (CSR):** learned about Daikin's sustainability initiatives, skill development programs (DJIME), and commitment to green energy solutions.
- ◆ **Future Opportunities:** Understanding the link between business sustainability, ethical manufacturing, and career prospects in the HVAC industry.
- 👉 Conclusion: Daikin seamlessly integrates innovation with social responsibility, setting benchmarks in manufacturing excellence and sustainability.