

watts[®]

Leading manufacturer of Resistors
Celebrating over 45 Years of Excellence

Visit us at www.wattselectronics.in

About watts

Established in 1979, **watts Electronics Pvt. Ltd.** is a leading manufacturer of resistors in India.

Located in Kochi, in the Indian state of Kerala, **watts** initially started with the production of 1/4W Carbon Film Resistors.

Today we manufacture a full range of Carbon Film, Metal Film, Metal Oxide, Metal Glaze & Wire Wound Resistors.

With a manufacturing capacity of over 1 Billion resistors annually, we are now operating from our new & larger factory so as to meet the demands of both the domestic and global electronics market.

Today the **watts** portfolio has expanded from Resistors to include components such as Rectifiers and Capacitors.



We are an ISO 9001:2015 certified company, supplying to the leading brands in the Industry across various segments...



Medical



Automobile



Inverter



Lighting



Industrial



Energy Meters



BLDC Fan



Home Appliances



EV Battery Management

Our Factory



Process

- We are an ISO 9001:2015 Certified company
- Raw Materials are from top tier suppliers, with stringent IQC
- Automated Machines are used in production to ensure accuracy and repeatability
- Production Management systems ensure complete traceability

Quality

- Fully equipped lab & trained engineers to ensure compliance to our Quality Objectives
- Driving excellence with strict compliance to the PPAP process

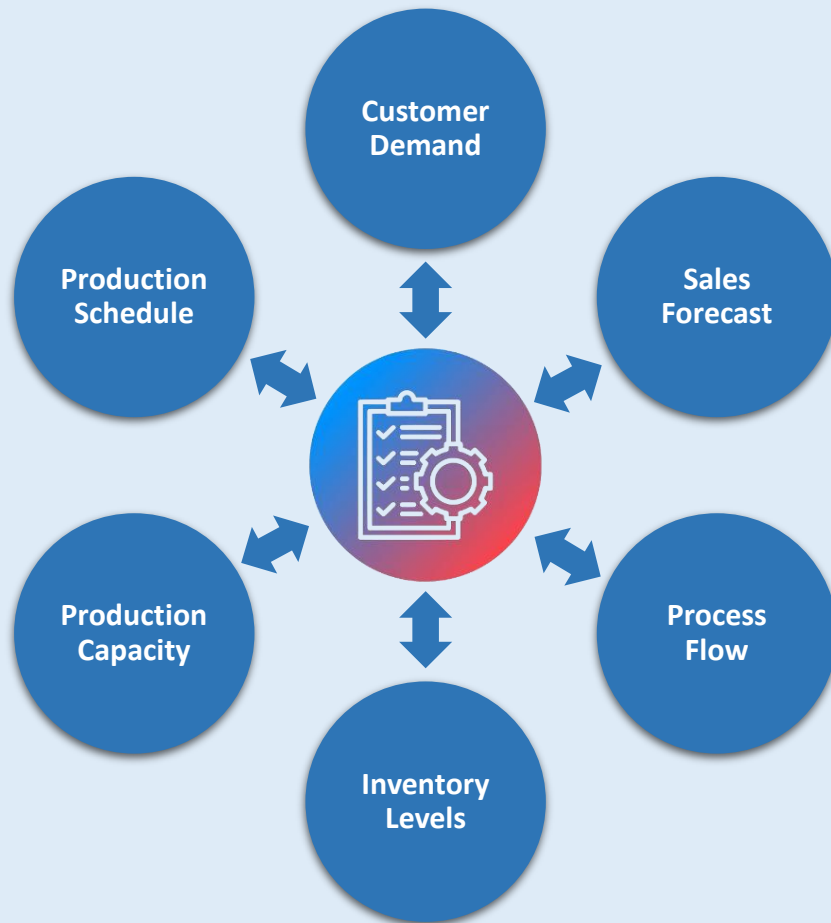
Capacity

- We have relocated to new larger factory in 2023, giving us significant growth potential
- Current capacity is 1 Billion Resistors per year, at 70% utilization
- Targeting 15% capacity increase by Dec'25.
- MELF production expansion planned for 2025.

CHALLENGES & OPPORTUNITIES

1. Production Planning

Problem Statement: Inefficiencies in Production Planning in a continuously changing environment



Suggestion: Build an Intelligent system to continuously monitor the various parameters that affect production planning and recommend optimal production schedules.

Caveat:

- Inputs to the processes are always changing (e.g. customer priority, unplanned downtime, etc.). So the system has to be vigilant enough to identify these changes and recommend course corrections.
- The solution has to be Budget-Friendly and Flexible enough for MSMEs to adopt and integrate easily with their existing systems.

Benefits:

- Delivery lead time reduction
- Efficient use of plant, machinery, material & manpower
- Maintaining optimal Inventory levels

2. Visual Inspection

Problem Statement: Unavailability of off-the-shelf & easy-to-implement Visual Inspection Systems.



Suggestion: Develop a programmable/customizable system (primarily software) to go through continuous video streams from inspection cameras fitted on to the production line and perform visual inspections such as:

- a. Product Identification
- b. Validating product markings
- c. Dimensional checks
- d. Check for surface aberrations

Caveat:

- The system has to provide output signals back to the production line so as to take appropriate actions
- The solution has to be Budget-Friendly and Flexible enough for MSMEs to adopt and integrate easily with their existing systems.

Benefits:

- Lead-Time reduction due to faster in-line inspection
- Significant reduction in errors
- Lower operating costs

THANK YOU

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