

# Production Time Prediction Report

This document presents the result of the production time prediction for a specific set of parameters, using the selected Machine Learning model. Additionally, a product collection recommendation is included based on the estimated time.

## Prediction Result

Production time prediction has been made using the model: **\*\*Random Forest\*\***.

Estimated production time: **\*\*11.67 hours\*\***.

## Product Collection Recommendation

The product will be ready for collection at the end of the next shift (approximately between 8 and 16 hours).

## Input Parameters Used

parametro	valor
ID de Máquina	3
Unidades Producidas	120
Cantidad de Operarios	4
Tasa de Desecho	0.015
Controles de Calidad Fallidos	1
Temperatura Promedio (°C)	23.0
Humedad Promedio (%)	58.0
Costo Mano de Obra por Hora (S/.)	12.5
Número de Defectos	2
Horas de Mantenimiento	0.8
Horas de Retrabajo	0.5
Consumo de Energía (kWh)	220
Horas de Inactividad	1.2

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Volumen de Producción (m³)	0.95
Product Type	Electrónica
Shift	Tarde