



HCI

Suppliers Club Society

Kaizen Presentation

Productivity
Quality
Cost ✓
Delivery
EHS

Kaizen Theme: COST SAVING by Technology implementation
Date of Implementation: September – 2025.

Company Introduction



ROKI UNO Minda Co. Private Limited is a Joint Venture between UNO MINDA and Roki Co. Limited of Japan. It is a leading manufacturer of automotive Air cleaner, Carbon canisters, Customers Auto: HCIL, MSIL, Magyar Suzuki(Hungary)
MC/SC: HMSI,SMIPL, IYM,HMCIL
Certification: IATF16949 / ISO14001 / ISO45001

Team Introduction

Pankaj San
Sunil San
Ashok San
Sachin San
Naman San
Reema San
Awdhesh San
Ishwar San
Naren San



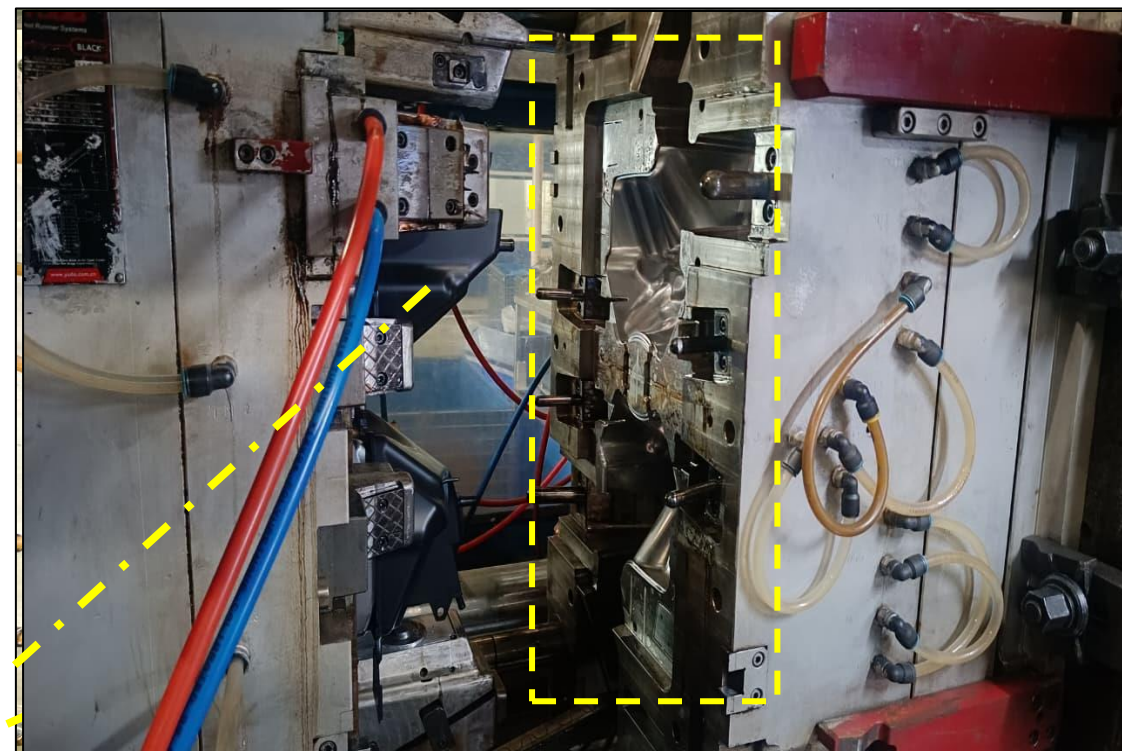
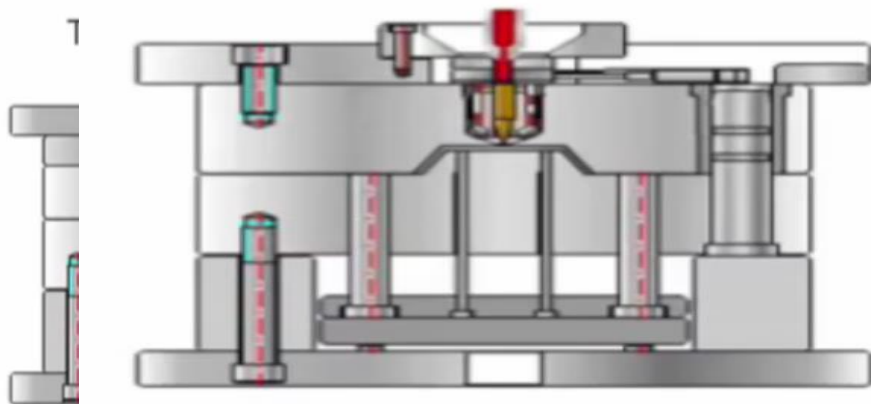
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Background of Kaizen

Hot Runner Mold



Hot runner mould
part without
runner

Background-: In our process we are using two types of mould (hot runner & Cold runner).

Hot runner mould → A **hot runner mould** is an injection mould where the plastic runners are kept **hot** so the plastic does not harden. The melted plastic flows directly into the product, **reducing waste and cycle time**.

Classification: [Internal](#)

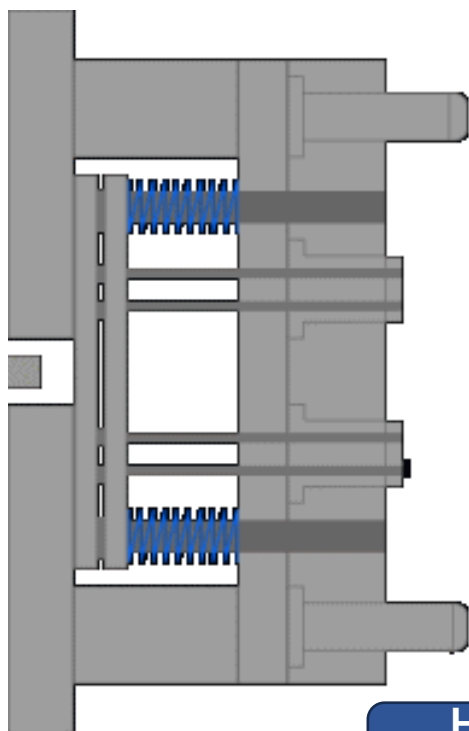


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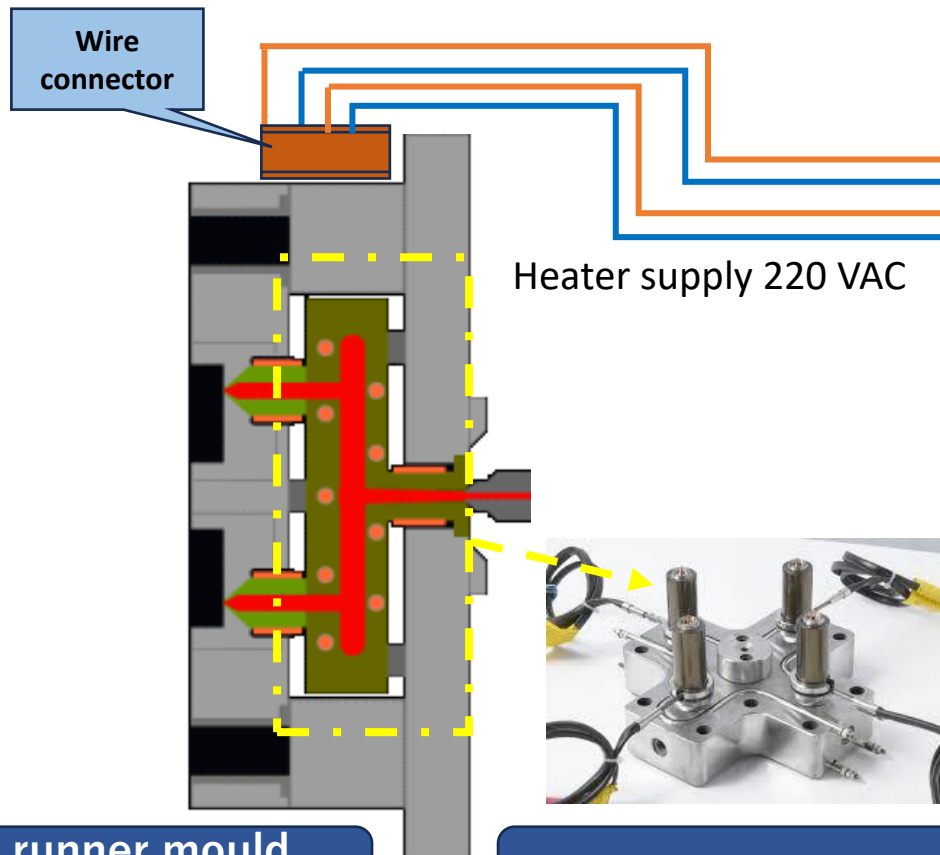
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HRTC Working



Hot runner mould mechanism



Hot runner Structured



YUDO Make Hot runner temperature controller (HRTC)

Background -: In our injection moulding machines, we use a YUDO make Hot Runner Temperature Controller (HRTC) to regulate the temperature of the hot runner system. The HRTC is a critical device that ensures precise control of individual heating zones & maintaining the plastic melt in a flowable state for consistent moulding quality.

However, the YUDO HRTC comes at a high cost of ₹1.95 lakh, and its repair expenses are also significantly high.



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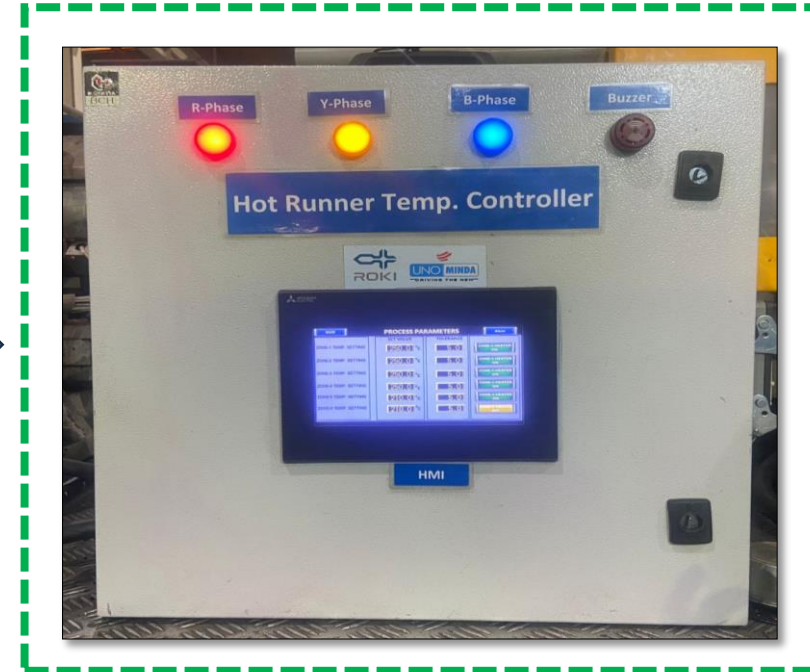
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AFTER KAIZEN



YUDO Make HRTC



PLC based inhouse Make HRTC

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Before	After
1. High cost of YUDO HRTC	1. Low cost of in-house HRTC
2. Limited functionality	2. Advanced functionality with HMI and PLC
3. No real-time monitoring	3. Real-time monitoring and control
4. No alarm system	4. Integrated alarm system with buzzer
5. No data logging	5. Data logging and analysis

AFTER- We have developed an in-house (HRTC) using a PLC and HMI system with same operating concept as the original controller, and additional enhancements:

Integrated Alarm System: Provides real-time alerts for abnormal conditions with buzzer system for easy troubleshooting. This HRTC cost approximate 45,000 INR (In-house made).



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Comparison between both
HRTC

VS

YUDO MAKE HRTC

High Initial cost : YUDO make OEM HRTC cost is ₹1.95 lakh and lead time is more approx. 1.5 Months.

Limited Alarm & Fault indication: Conventional controller so, Limited OEM defined system.

Specific Number of heating zones: As per OEM specification.(8 Zones,6 Zones)

High Repair & Maintenance cost: Very high, OEM dependent in case any fault inside the card it need to be send outside .

Down time impact : Higher due to service delays because of dependency of 3rd party.

**76 % Cost
reduction**

**Faster
troubleshooting
& reduced
downtime**

Flexible & Scalable

**Major lifecycle cost
saving**

**Improved Machine
availability**

INHOUSE MADE HRTC

Low Initial cost : Inhouse made HRTC cost is ₹ 45,000 and can ready withing 2-3 days

Real time Alarm & Fault Indication: Integrated real-time alarm system with buzzer.

Flexible in Number of heating zones: Configurable based on PLC can increase as per requirement . (As per requirement)

Low Repair & Maintenance cost: Low , Maintained internally.

Very Low downtime impact : Minimal due to in house expertise.

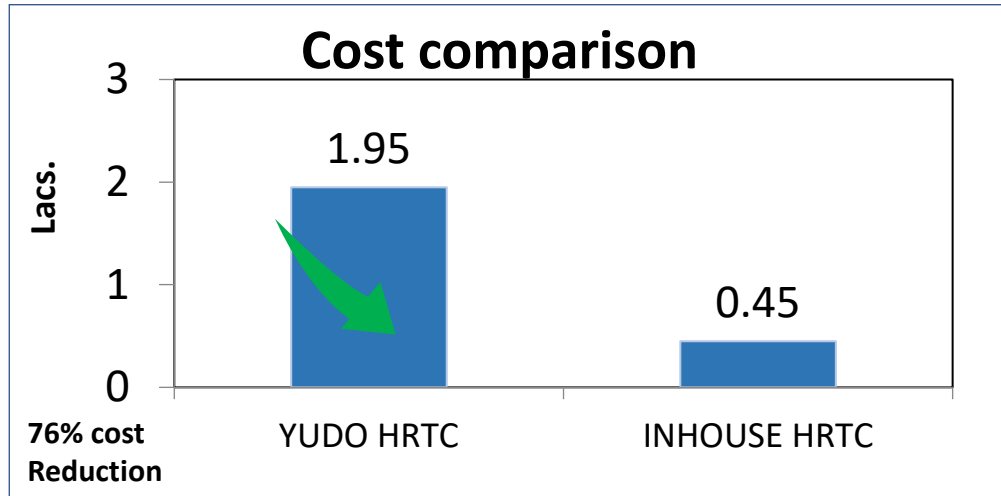


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Kaizen Presentation Benefits

Pls. tick ✓ the benefits in below heads

Productivity up %				Quality			Cost Saving In Rs/month		Delivery			EHS			
Process	Material yield improvement	Space saving (sq. ft.)	Other	Rejection reduction (%)	Poka yoke	Others	Direct	Notional	Lead Time reduction	Customer delivery rating improvement	Others	Effect on Environment	Human Safety	Machine safety	Others
							✓							✓	



TANGIBLE BANEFITS:

- Cost Saving from 3 Nos. HRTC – ₹ 1,50,000*3 = 4,50,000
- Total Investment – ₹ 1,35,000 (3 Nos.)
- In 24~25 repairing cost approx.-. ₹ 65,000
- ROI – 4.5 Months.

TANGIBLE BENEFITS:

- Direct Cost saving (76% Cost reduction).
- Significant reduction in repair & maintenance cost. (No single issue reported since startup)
- Flexibility to customize as needed.

INTANGIBLE BENEFITS:

- Reduced dependency on external suppliers.
- Team skill & knowledge improvement.
- Pride and motivation from in-house innovation.
- Faster troubleshooting.



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THANK YOU