



 www.jaykayheaters.in

JAY KAY INDUCTION HEATERS

STOP WASTING
ELECTRICITY

START SAVING
MONEY

PROVIDING HEATING SOLUTIONS SINCE 1985



india

MADE IN INDIA

INDUCTION HEATING SYSTEM

SAVING ENERGY

SAVE UP TO 40% ELECTRICITY

 High-efficiency Induction Heating Systems For Plastic Extrusion, Injection & Recycling

 Typical Payback Period: 6–12 Months

 Manufactured By Jay Kay Enterprise, Noida



SMART ENERGY USE REDUCES COST AND PROTECTS THE FUTURE

WHY TRADITIONAL BAND HEATERS WASTE ELECTRICITY



Heat Loss To Air



High Surface Temperature



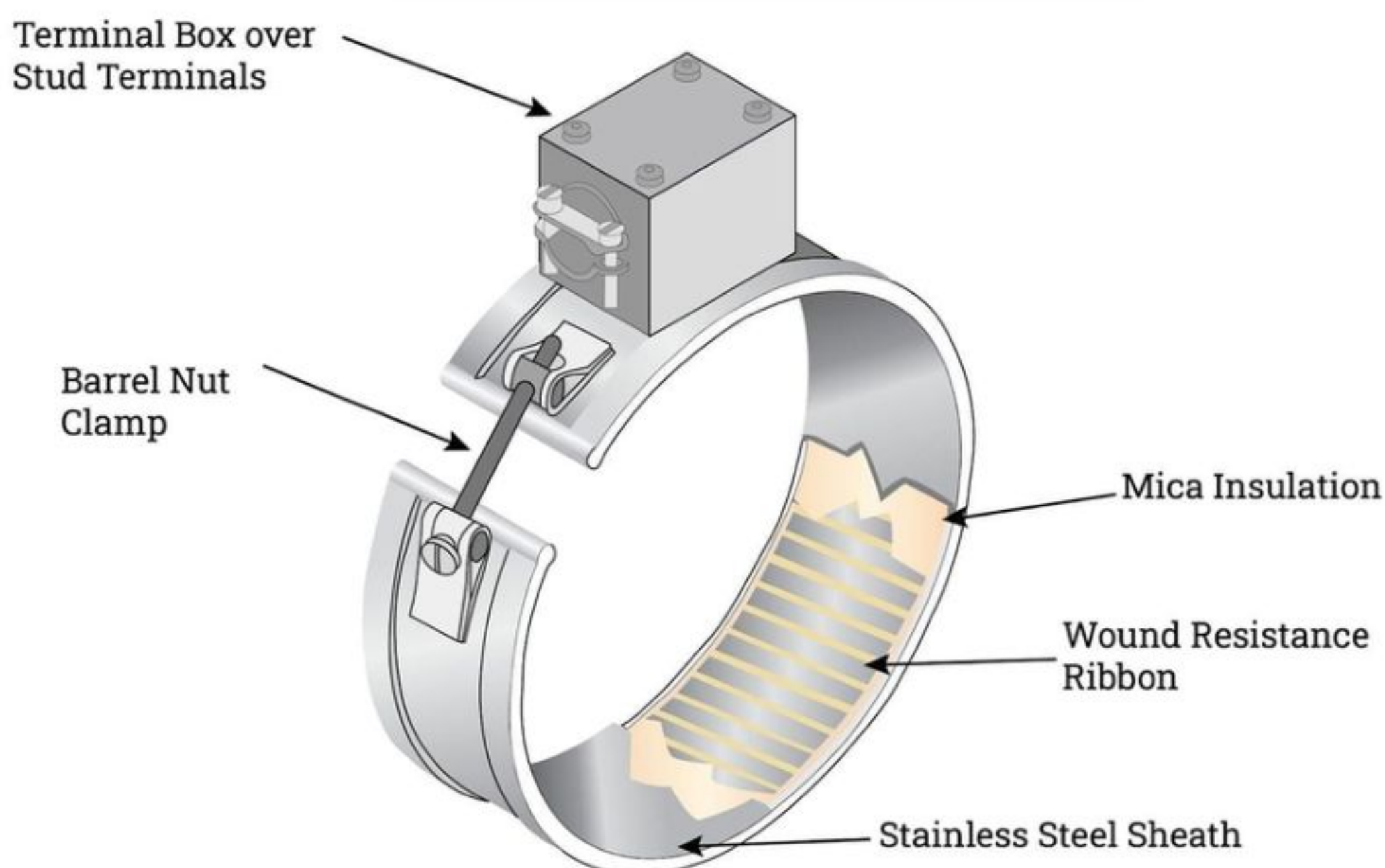
Slow Heating



Frequent Failures



Most of the power you pay for never reaches the plastic.



INTELLIGENT INDUCTION HEATING SYSTEM

DESIGNED FOR MAXIMUM EFFICIENCY, RELIABILITY & PERFORMANCE



KEY FEATURES



ENERGY EFFICIENT

Optimized power utilization for lower operating costs and a greener tomorrow.



RELIABLE PERFORMANCE

Engineered for consistent operation and long-term durability.



UNIFORM HEATING

Advanced induction technology ensures precise and uniform heat distribution.



LOW MAINTENANCE

Built for easy maintenance and minimal downtime for maximum uptime.



BUILT TO LAST



HIGH EFFICIENCY



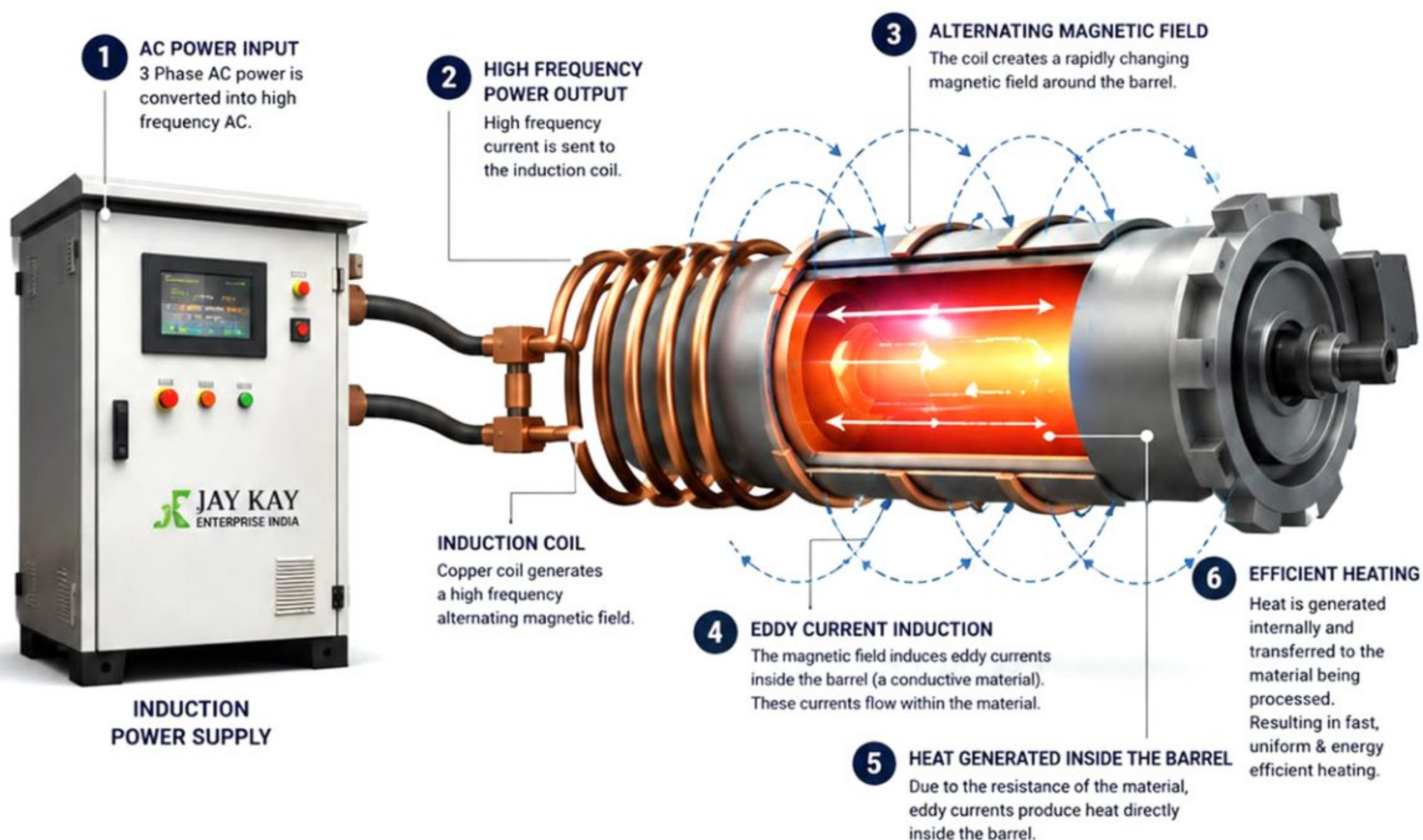
PROVEN TECHNOLOGY



SUSTAINABLE SOLUTION

INTELLIGENT INDUCTION HEATING SYSTEM

DESIGNED FOR MAXIMUM EFFICIENCY, RELIABILITY & PERFORMANCE



INDUCTION HEATING:

DIRECT ENERGY WHERE IT MATTERS

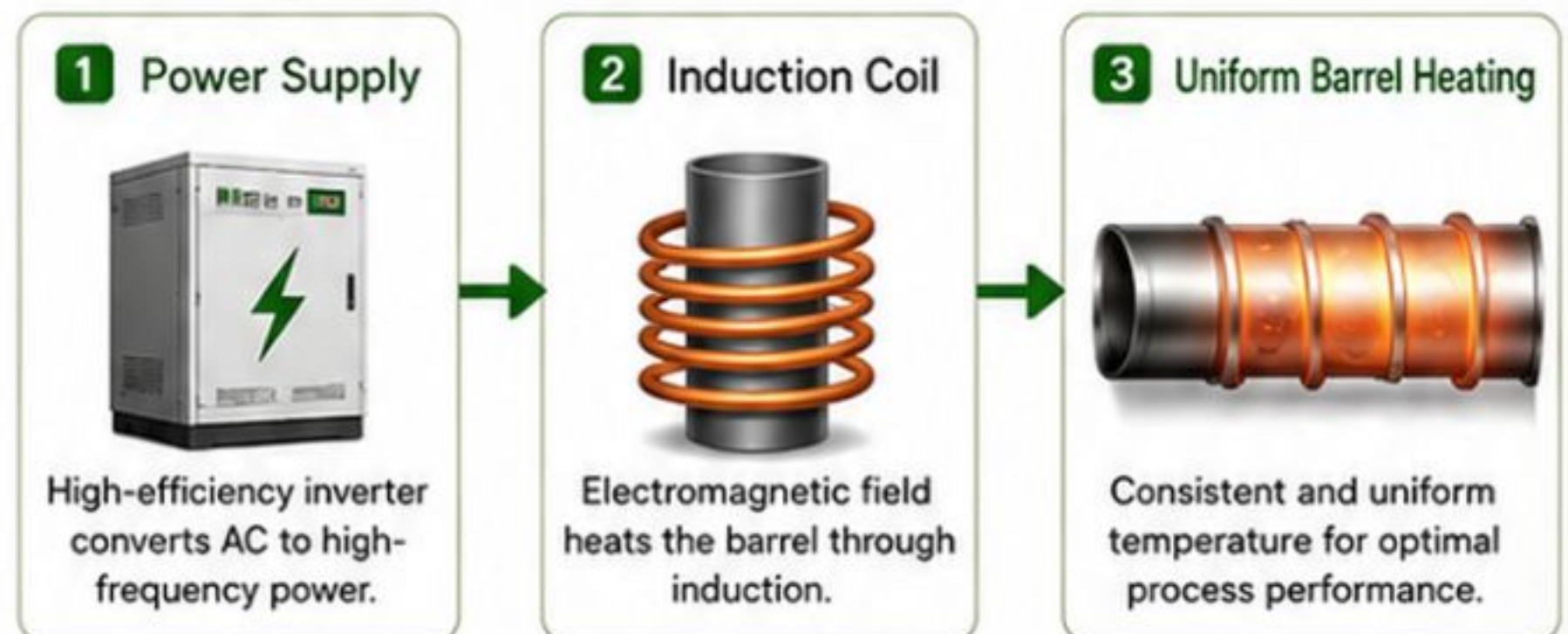
40%

-  Digital PID Temperature Control
-  Modular Zone Design
-  Heavy-Duty Industrial Cabinet
-  High-Efficiency Inverter Technology
-  Individual Zone Monitoring
-  Air-Cooled System
-  Powder-Coated Steel Enclosure
-  Easy Maintenance Access

60%

-  Energy Savings
-  Faster Heating
-  Uniform Barrel Temperature
-  Longer Screw & Barrel Life
-  Improved Power Factor
-  Cooler Working Environment
-  Low Maintenance
-  Continuous Industrial Operation

APPLICATIONS & SYSTEM OVERVIEW



IDEAL FOR



Plastic
Extrusion



Injection
Molding



Blow
Molding



Industrial
Processing

Smart Heating • Higher Efficiency • Lower Operating Cost

INVEST ONCE. SAVE EVERY DAY.

-  Up To 40% Reduction In Power Consumption
-  60 Kw Extruder Saves Approx 18–22 Kw Per Hour



-  Recover Your Investment In 6–12 Months
-  Electricity Savings Start From Day One



INDUCTION HEATING:

Our Induction Heating System converts electrical energy directly into the barrel, significantly reducing heat loss and lowering overall power consumption. Most customers achieve a payback within 6–12 months, followed by years of continuous energy savings.

Typical Energy Savings

-  Up to 45% Reduction in Electricity Consumption
-  Savings Start from the First Day of Installation
-  Improved Power Factor & Lower Operating Current
-  Reduced Heat Loss to the Surroundings
-  Lower Maintenance Cost
-  Increased Overall Plant Efficiency

Example ROI Calculation

-  **Machine Details**
-  **Application**
Plastic Extruder
-  **Installed Heater Load**
60 kW
-  **Operating Hours**
24 Hours/Day
-  **Working Days**
300 Days/Year
-  **Electricity Tariff**
₹8.00 per Unit

INDUCTION HEATING:

Lower Energy Cost. Faster Payback. Higher Profitability.



Annual Electricity
Cost (Before)

₹34.56
Lakhs



Annual Electricity
Cost (After)

₹21.89
Lakhs



Annual Savings

₹12.67
Lakhs



Payback Period

7-8
Months

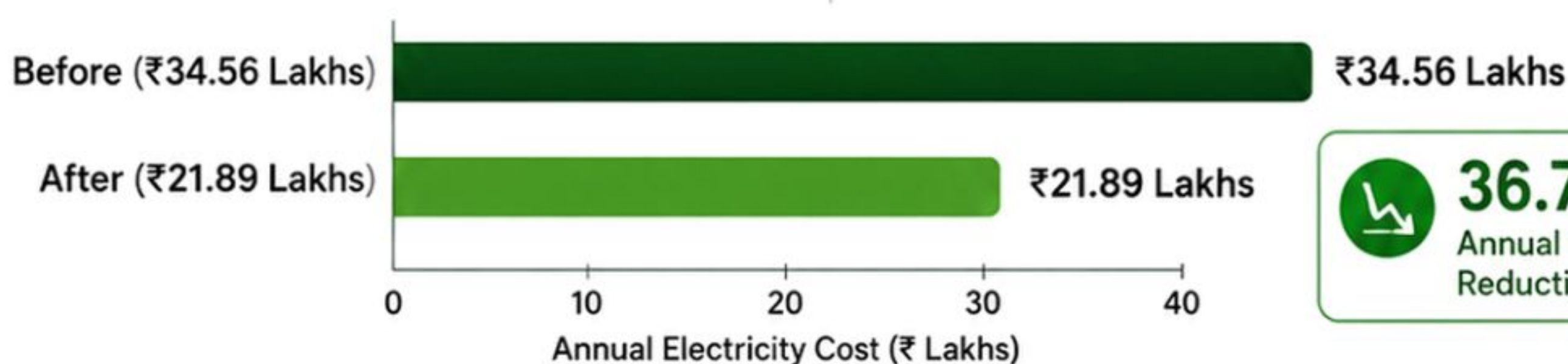
Before Induction Heating

$$60 \times 24 \times 300 \times ₹8 \\ = ₹34.56 \text{ Lakhs per Year}$$

After Induction Heating

Average Power Consumption ≈ 38 kW

$$38 \times 24 \times 300 \times ₹8 \\ = ₹21.89 \text{ Lakhs per Year}$$



36.7%
Annual Cost
Reduction

INVESTMENT & RETURN



Investment in Induction System
 $\approx ₹8.00$ Lakhs



Annual Electricity Saving
 $\approx ₹12.67$ Lakhs



Estimated Payback
Approximately 7-8 Months

CALCULATION BASIS



Operating Load Before: **60 kW**



Operating Load After: **38 kW**



Working Hours: **24 Hours/Day**



Operating Days: **300 Days/Year**



Electricity Rate: **₹8/Unit**



After recovering your investment, every unit of electricity saved directly increases your company's profitability

HEAT WAVES

SES induction heating system as an alternative to ceramic heaters, achieving faster heating, lower energy use, long-term cost savings, and environmental benefits.

ENERGY SAVING

SES transfers over 80% of generated heat directly to the extruder barrel for efficient performance.

HOW IT WORKS

SES uses helically wrapped copper wires to deliver efficient, safe heat to the barrel.

SAFE & DURABLE

SES is designed for long life, requires no special maintenance, and remains stable even under thermal stress.

EFFICIENT HEATING

SES varies wire count to provide precise, uniform heating with fewer hot spots.

ADAPTABLE & MODULAR

Modular SES delivers higher energy savings on larger extruders and adapts easily to different sizes.

INDUCTION HEATING FOR PLASTIC EXTRUDERS

SMARTER HEATING FOR FASTER, STABLE EXTRUSION

-  Faster Startup
-  Stable Melt
-  Lower Cost Per Kg



ENERGY-EFFICIENT HEATING FOR INJECTION MOLDING



Savings During Cycles



Stable Temperature



DESIGNED FOR RECYCLING & TWIN SCREW EXTRUDERS



Continuous Duty



Lower Electricity Cost Per Ton





**UPGRADE WITHOUT CHANGING YOUR
MACHINE**

**REPLACE BAND HEATERS WITH
INDUCTION HEATING**



SMART ENERGY USE REDUCES COST AND PROTECTS THE FUTURE

PRECISION CONTROL. INDUSTRIAL RELIABILITY



Zone-Wise Control



Digital Regulation



INDUCTION HEATING SYSTEM for Plastic Extruder



Energy
Efficient



Up to 40%
Power Saving



Better Heating
Uniformity



Improved
Production



Low Maintenance
& Long Life



DESIGNED AND CRAFTED IN-HOUSE. QUALITY CONTROLLED AT EVERY STEP



Designed & Manufactured In-House



Quality - Controlled Production



**INSTALLED RIGHT.
BUILT CUSTOM.
SUPPORTED ALWAYS.**



WHY JAY KAY

A TRUSTED PARTNER IN ENERGY-EFFICIENT HEATING



Proven Installations



Custom Solutions



Service Support

Why **500+** Manufacturers Choose Jay Kay Enterprise India

- ✓ 30+ Years Experience
- ✓ Made in India
- ✓ In-house Manufacturing
- ✓ Custom Coil Design
- ✓ Installation Across India
- ✓ 12-Month Warranty
- ✓ Technical Support
- ✓ Spare Availability
- ✓ Buyback Guarantee



QUALITY YOU CAN TRUST



MADE IN INDIA



COMMITTED TO EXCELLENCE



Contact Us

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