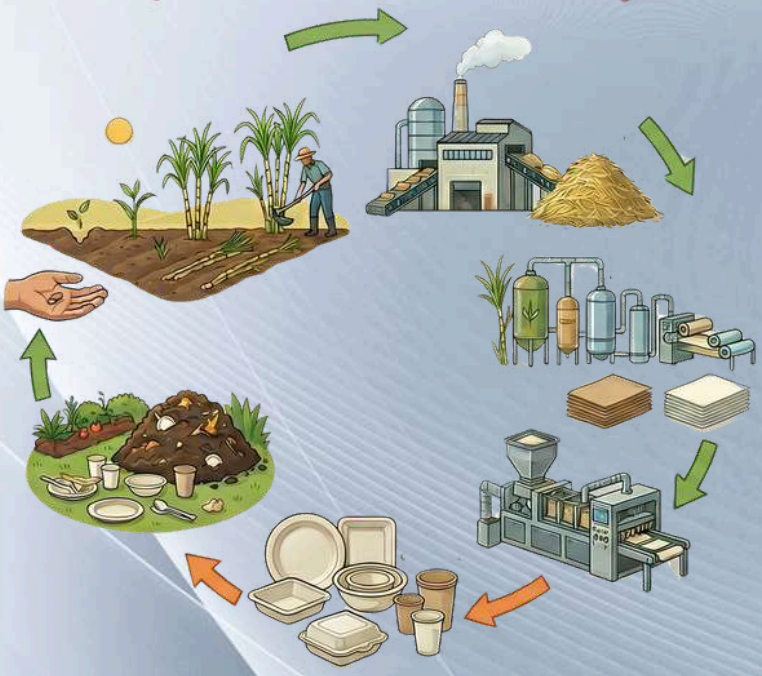
# KiNGES

## India's Most Energy Efficient Fully Automatic All Axis Servo Driven Pulp Moulding Machine Manufacturer

### SERVO-DRIVEN PRECISION

High-precision servo systems for consistent, repeatable molding performance & energy efficient .

### MORE EFFICIENT

Less labour depandcy Automatic counting and stacking, Natural edge trimming, Less maintenance

### ECO-FRIENDLY OUTPUT

Produce 100% biodegradable tableware and industrial packaging products.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# About Us

**Kinge'S Engineering** & Automation stands at the global forefront of high-performance, precision-engineered sustainable machinery manufacturing. We combine advanced engineering with robust construction to deliver industry-leading reliability that serves both business profitability and global ecology.

**Vision Statement:** To eliminate single-use plastics from the globe by engineering the world's most efficient, reliable, and technologically advanced pulp molding machinery.

**Mission Statement:** To empower manufacturers worldwide with next-gen automated solutions that reduce operational friction, eliminate labor dependency, and deliver superior product finish with absolute eco-compliance.

# Get In Touch


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**sales@kingesengineering.com**

**E19, RR INDUSTRIAL PARK ,BARDARI, INDORE (453111), MP**

# Why Choose Us

**“We possess extensive hands-on, end-to-end practical experience in pulp moulding technology. This unique combination of operational expertise and engineering knowledge enables us to design and manufacture machines and moulds entirely in-house from both an operator's and a business perspective. As a result, our customers can rely on our systems for continuous, heavy-duty production, maximum reliability, and long-term operational success.”**

## Experience & Expertise :

Our deep, real-world experience across the entire manufacturing lifecycle makes us fundamentally different from other’s. We don't just assemble components; we understand the delicate physics of pulp and the exact science of high-speed automation.

⚡ 20+ Years in Machine Manufacturing: Two decades of perfecting precision engineering, heavy machinery structural integrity, and automation logic.

🌱 10+ Years in Pulp Operations: Over a decade of direct, practical experience managing pulp processing, consistency tuning, and material behavior.

⚙️ 7+ Years Specialized in Pulp Molding: Dedicated expertise focused purely on refining the complex thermal and mechanical processes of high-end pulp molding equipment.

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# Why we are best:

- **Compounding Financial Returns:** The synergy of higher output and lower rejection rates directly maximizes your revenue potential while minimizing material waste.
- **Operational Cost Reduction:** Automating complex tasks leads to less labor dependency and lower maintenance overhead, significantly dropping your day-to-day operational expenditures.
- **Accelerated Bottom-Line Growth:** This powerful combination of increased efficiency and slashed expenses ensures a much faster ROI and higher profitability.
- **Compromise-Free Security:** These economic advantages are achieved alongside integrated human safety protocols, ensuring your facility remains secure and compliant while your business scales.

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# Elevating Industrial Efficiency: The Strategic Advantage of Servo-Driven Automation

In today's fast-paced manufacturing landscape, the transition from traditional mechanical systems to advanced automation is no longer a luxury—it is a competitive necessity. At Kinge's Engineering & Automation, we bridge this gap by delivering comprehensive, turnkey project solutions featuring fully automatic, servo-driven systems. Our engineered solutions are meticulously designed to maximize productivity, ensure operational safety, and foster long-term business growth.

## KEY BENEFITS OF SERVO -DRIVEN SYSTEMS BY KINGE'S ENGNEERING & AUTOMATION


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# SHP-75

**Production Capacity 200-250 kgs/day**
**Platen size- 750mm*650mm**


**Budget Friendly Fully Automatic All Axis Servo Driven and especially desigined for Small Product's Like Round Bowls, Square Bowls and Meal trays .**

## SHP -75 TECHNICAL SPECIFICATION SHEET

| PARTICULAR | SPECIFICATION | PARTICULAR | SPECIFICATION |
|---|---|---|---|
| **PLATEN SIZE** | 750 MM*650 MM | **PRESS MECHANISM** | CLAMP MECHANISM (TOGGLE TYPE) |
| **MACHINE SIZE (L*W*H)** | 4000 MM*1350MM*4000 MM | **DRIVE** | ALL AXIS SERVO DRIVEN |
| **OPERATION TYPE** | FULLY AUTOMATIC -SERVO DRIVEN | **OPERATION CONTROLER** | HMI |
| **FORMING TYPE** | DIP FORMING | **CYCLE TIME** | 35-40 sec. DEPENDS ON THE PRODUCT |
| **HEATING TYPE** | THERMIC /ELECTRIC HEATING | **HOT PRESS** | SINGLE HOT PRESS |
| **PRODUCT TYPE** | BOWL , PLATES , TRAYS | **STAGES** | FORMING ,TRANSFERRING-01, HOT PRESS-COUNTING .STACKING |
| **PRODUCTION** | 200-250 KGS /DAY | **PRODUCT COUNTING** | AUTOMATIC |
| **PRODUCT RAW MATERIAL** | PULP WITH CY% 0.25-0.3 | **PRODUCT STACKING** | AUTOMATIC |
| **PRODUCTION /HR(KG)** | UP TO 11 KG /HR | **MAN POWER** | 3-4 MACHINE/OPERATOR |
| **AIR CONSUMPTION** | 20-25 CFM | **TRIMMING** | AUTOMATIC (NATURAL TRIMMING FREE PRODUCTS) |
| **VACUUM CONSUMPTION** | (-)550 MM HG- POWER 8-10HP | **SAFTEY PROVISION** | SAFETY DOOR SENSOR ,AUTOMTIC LOCK |
| **CONNECTING POWER (THERMIC/ELECTRIC)** | 6KW/70 KW | **MOC** | MS,SS 304, AND ALUMINIUM MOLD(6061) T6 |
| **RUNNING LOAD** | 4 KW/42 KW | **PRESSING TONNAGE** | 30 MT |

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| SHP-75 PRODUCTION SHEET | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Product** | **Cavity (nos)** | **Product wt. (gms)** | **Cycle time(sec)** | **Production /hr (pcs)** | **Production /hr (kgs)** | **Production /day (pcs) 23 hrs** | **Production /day (kgs)** |
| 180 ml round bowl | 20 | 5 | 38 | 1895 | 9.5 | 43579 | 218 |
| 3cp meal tray | 4 | 30 | 40 | 360 | 10.8 | 8280 | 248 |
| 5cp meal tray | 4 | 32 | 40 | 360 | 11.5 | 8280 | 265 |
| 11'' 4cp Round Plate | 4 | 23 | 38 | 379 | 8.7 | 8716 | 200 |
| 120 ml bowl | 30 | 4 | 38 | 2842 | 11.4 | 65368 | 261 |
| 104*104 square bowl | 25 | 4.5 | 38 | 2368 | 10.7 | 54474 | 245 |

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# SHP-95

## Platen Size-950mm*700mm
## Production Capacity 300-350 kgs/day.


## Designed For Tableware Products like Plates, Bowls, and Trays

## SHP - 95 TECHNICAL SPECIFICATION SHEET

| PARTICULAR | SPECIFICATION | PARTICULAR | SPECIFICATION |
|---|---|---|---|
| PLATEN SIZE | 950*700 MM | PRESS MECHANISM | CLAMP MECHANISM (TOGGLE) |
| MACHINE SIZE (L*W*H) | 4200 MM*1800 MM*4000 MM | DRIVE | ALL AXIS SERVO DRIVEN |
| OPERATION TYPE | FULLY AUTOMATIC -SERVO DRIVEN | OPERATION CONTROLER | HMI |
| FORMING TYPE | DIP TYPE-RECIPROCATING | CYCLE TIME | 35-40 SEC |
| HEATING TYPE | ELECTRIC/THERMIC | HOT PRESS | SINGLE HOT PRESS |
| PRODUCT TYPE | PLATES ,BOWLS,TRAY | STAGES | FORMING ,TRANSFERRING, HOT PRESS |
| PRODUCTION | 300-350 KG/S /DAY | PRODUCT COUNTING | AUTOMATIC |
| PRODUCT RAW MATERIAL | PULP | PRODUCT STACKING | AUTOMATIC |
| PRODUCTION /HR (KG) | UP TO 17.5KG /HR | MAN POWER | 3-4 MACHINE/OPERATOR |
| AIR CONSUMPTION | 30 -35 CFM | TRIMMING | AUTOMATIC (NATURAL EDGE TRIMMING) |
| VACUUM | (-)550 MM HG-POWER 10-12 HP | SAFTEY | SAFETY DOOR SENSOR ,AUTOMTIC LOCK |
| POWER LOAD WITH ELECTRIC HEATERS | 7/103 KW | MOC | MS,SS 304, AND ALUMINIUM MOLD(6061) |
| POWER LOAD IN THERMIC FLUID HEATING | 4/62 KW | PRESSING TONNAGE | 40 MT |

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## SHP-95 PRODUCTION SHEET

| Product | Cavity (pcs) | Weight (gms) | Cycle Time | Cycles/hr | Production/hr (Pcs) | Production/day (Pcs) | Production/ day (kgs) |
|---|---|---|---|---|---|---|---|
| 5'' Square Plate | 30 | 5 | 40 | 90 | 2700 | 62100 | 311 |
| 7'' Square Plate | 20 | 8.5 | 40 | 90 | 1800 | 41400 | 352 |
| 9'' Square Plate | 12 | 15 | 40 | 90 | 1080 | 24840 | 373 |
| 11'' 5cp Meal tray | 6 | 32 | 40 | 90 | 540 | 12420 | 397 |
| 6'' round plate | 20 | 6.5 | 38 | 94.7 | 1895 | 43579 | 283 |
| 9'' round plate | 8 | 17 | 38 | 94.7 | 758 | 17432 | 296 |
| 9'' 3cp round plate | 8 | 17 | 38 | 94.7 | 758 | 17432 | 296 |
| 11 '' round plate | 6 | 22 | 38 | 94.7 | 568 | 13074 | 288 |
| 11'' 4cp round plate | 6 | 23 | 38 | 94.7 | 568 | 13074 | 301 |
| 180 ml round bowl | 30 | 5 | 38 | 94.7 | 2842 | 65368 | 327 |
| 220 ml round bowl | 20 | 6 | 40 | 90 | 1800 | 41400 | 248 |
| 350 ml round bowl | 20 | 8.5 | 40 | 90 | 1800 | 41400 | 352 |
| 4'' square bowl | 30 | 4.5 | 38 | 94.7 | 2842 | 65368 | 294 |

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# SHP-120

**Platen Size (1200 mm*800 mm),**
**Production 400-500 kgs / day**


**Designed for mass production of tableware products .**

## SHP -120 TECHNICAL SPECIFICATION SHEET

| PARTICULAR | SPECIFICATION | PARTICULAR | SPECIFICATION |
|---|---|---|---|
| **PLATEN SIZE** | 1200 MM*800 MM | **PRESSING TONNAGE** | 50 MT |
| **MACHINE SIZE (L*W*H)** | 4500 MM*1850MM*4000 MM | **PRESS MECHANISM** | CLAMP MECHANISM (TOGGLE ) |
| **OPERATION TYPE** | FULLY AUTOMATIC -SERVO DRIVEN | **DRIVE** | ALL AXIS SERVO DRIVEN |
| **FORMING TYPE** | DIP FORMING | **OPERATION CONTROLER** | HMI |
| **HEATING TYPE** | THERMIC /ELECTRIC | **CYCLE TIME** | 35-42 SEC DEPENDS ON THE PRODUCT |

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| | | | |
|---|---|---|---|
| **PRODUCT TYPE** | PLATES,TRAYS | **STAGES** | FORMING ,TRANSFERRING-01, HOT PRESS- COUNTING ,STACKING |
| **PRODUCTION** | 400-500 KGS /DAY | **PRODUCT COUNTING** | AUTOMATIC/MANUAL |
| **PRODUCT RAW MATERIAL** | PULP (.25-.3 CY%) | **PRODUCT STACKING** | AUTOMATIC/MANUAL |
| **PRODUCTION/HR** | 21 KGS/HR | **MAN POWER** | 3 AUTOMATIC MACHINES /OPERATOR |
| **AIR CONSUMPTION** | 40-45 CFM (5-7HP) | **TRIMMING** | AUTOMATIC NATURAL/MANUAL |
| **VACUUM** | -550 MM HG (12-15 HP) | **SAFETY** | SAFETY DOOR SENSORS PROVIDED |
| **CONNECTING POWER LOAD (THERMIC/ELECTRIC)** | 8/125 KW | **MOC** | MS,SS304,ALUMINIUM MOULD 6061 T6 |
| **RUNNING LOAD** | 5/75 KW | **PRESSING TONNAGE** | APPROX 50 MT |

**SHP-120 PRODUCTION SHEET**

| Product | Cavity (nos) | Product wt (gms) | Cycle time(sec) | Production /hr (pcs) | Production /hr (kgs) | Production/ day (pcs) 23 hrs | Production/ day (kgs) |
|---|---|---|---|---|---|---|---|
| 12'' 4cp Plate | 6 | 26 | 38 | 568 | 14.8 | 13074 | 340 |
| 3cp meal tray | 8 | 30 | 40 | 720 | 21.6 | 16560 | 497 |
| 5cp meal tray | 8 | 32 | 40 | 720 | 23 | 16560 | 530 |
| 11'' 4cp Round Plate | 8 | 23 | 38 | 758 | 17.4 | 17432 | 401 |
| 10'' round plate | 11 | 20 | 900 | 990 | 19.8 | 22770 | 455 |
| 9'' round plate | 13 | 14 | 1137 | 1232 | 17.2 | 28326 | 397 |

# SHP-IP80
# (INDUSTRIAL PACKAGING MACHINE )

**The SHP-IP 80 is a high-performance pulp moulding machine specifically designed for the production of thick-gauge industrial packaging products.**

**Engineered for reliability, precision, and cost-effective manufacturing, the machine is ideal for producing sustainable industrial packaging solutions using recycled paper-based raw materials.**

**Platen Size - 800 mm *600 mm**
**Hot press Platen Size - 600 mm *600 mm**
**(depend on the Mould Geomatery )**
**Production Capacity- 800-1000 kgs /day**


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# Key Features

- Fully automatic forming section with complete servo-axis control
- Designed for thick-gauge industrial packaging products
- High precision forming with consistent product quality
- Utilizes recycled waste paper and sustainable raw materials
- Low operating cost and reduced labor dependency
- Faster return on investment (ROI) with lower initial capital investment.
- Robust construction for long-term reliability
- Flexible hot press heating options available: Electric Heating
- Thermic Fluid Heating (recommended for larger-scale production)

# OUR COMMITMENT TO CUSTOMER SUCCESS

## Delivering Value Beyond Machines

At Kinge's Engineering & Automation, we believe that customer success is the foundation of our success. From project planning to long-term production support, we stand beside our customers at every stage of their journey.

### PRE-SALES SUPPORT

We help customers make informed investment decisions by providing:

- Product & Application Consultation
- Capacity Planning & ROI Analysis
- Plant Layout & Utility Guidance
- Machine & Mould Selection Support
- Process & Production Recommendations
- Customized Turnkey Project Solutions
- Result: The right solution tailored to your production and business goals.

### ON-SALES SUPPORT

Our experienced team ensures smooth project execution through:

- Detailed Engineering & Design
- Precision Manufacturing
- Quality Inspection & Testing
- Project Coordination & Management
- Installation & Commissioning Support
- Operator & Maintenance Training
- Result: Hassle-free implementation with timely project delivery.

### AFTER-SALES SUPPORT

Our relationship continues long after installation:

- Technical Troubleshooting Support
- Spare Parts Assistance
- Preventive Maintenance Guidance
- Process Optimization Support
- Remote Technical Assistance
- Production Improvement Recommendations
- Result: Maximum machine uptime and enhanced productivity.

### 24×7 CUSTOMER SUPPORT

Our dedicated service team remains available 24 Hours × 7 Days to provide prompt technical assistance and ensure uninterrupted production.
Fast Response Time Remote & On-Site Support, Expert Technical Assistance
Long-Term Partnership Commitment

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## WHY CUSTOMERS TRUST KINGE'S?

- Turnkey Project Solutions
- In-House Machine & Mould Manufacturing
- Fully Automatic Servo-Driven Technology Practical Industry Experience
- Reliable After-Sales Service
- Focus on Customer Profitability & ROI

## OUR COMMITMENTS AT KINGE'S

- Kinge's Engineering & Automation -Engineering Reliability. Delivering Productivity. Building Long-Term Partnerships.
- Our commitment to quality is reinforced by globally trusted component partners known for precision, reliability, and performance.

| SPARES | MAKE | ORIGIN | LOGO |
|---|---|---|---|
| SERVO MOTOR & DRIVE | **OMRON** | JAPAN | OMRON |
| LINEAR GUIDE AND BALL SCREW | **HIWIN** | TAIWAN | HIWIN Motion Control and System Technology |
| LM BLOCKS AND LM GUIDE | **HIWIN** | TAIWAN | HIWIN Motion Control and System Technology |
| PLANTERY GB | **NIDEC SHIMPO** | JAPAN | Nidec All for dreams |
| BEVEL HELICAL GEAR BOX | **BONFIGLIOLI** | ITALY | Bonfiglioli |
| ANGLE VALVE | **CAMOZZI / FESTO** | ITALY/GERMANY | CAMOZZI |
| SOLENOIED V/V | **FESTO** | GERMANY | FESTO |

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KINGES

Kinge's Engineering & Automation

**Manufacturer of:-**

Pulp Moulded Tableware & Packaging Machines | Moulds & SPM Solutions

## "Redefining Sustainability & Efficiency with our Cutting Edge Technology"

# KINGE'S ENGINEERING & AUTOMATION


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