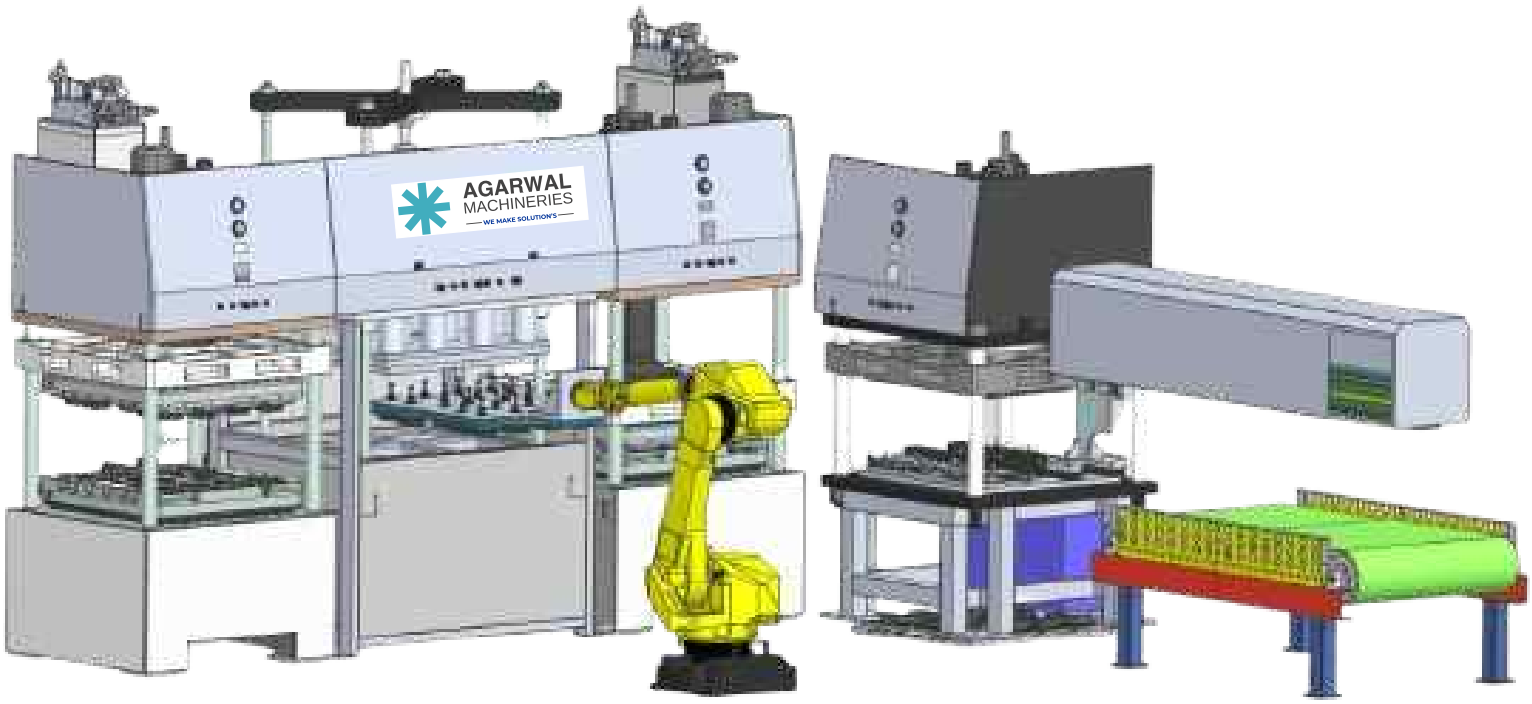
AGARWAL MACHINERIES

WE MAKE SOLUTION'S

Under One Roof

INTEGRATED SOLUTION FOR MOULDED FIBRE PRODUCTS



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Techpulp

About Us

Techpulp was Introduced by pioeers of moulded fiber industry in India in year 2019.

With a vision to meet the growing requirement of moulded fiber industry in India,we offer end-to-end solutions from project planning,supply of machinery,commissioning, sourcing of material to training & support services & sucessfull running of projects.

Developing cutting-edge solutions for a variety of applications, which are imagined, designed, manufactured and serviced domestically, while overcoming the complexities of purchasing, importing and installation, besides obtaining spare parts and after sales service support through foreign vendors.

Technology enables for sustainable packaging

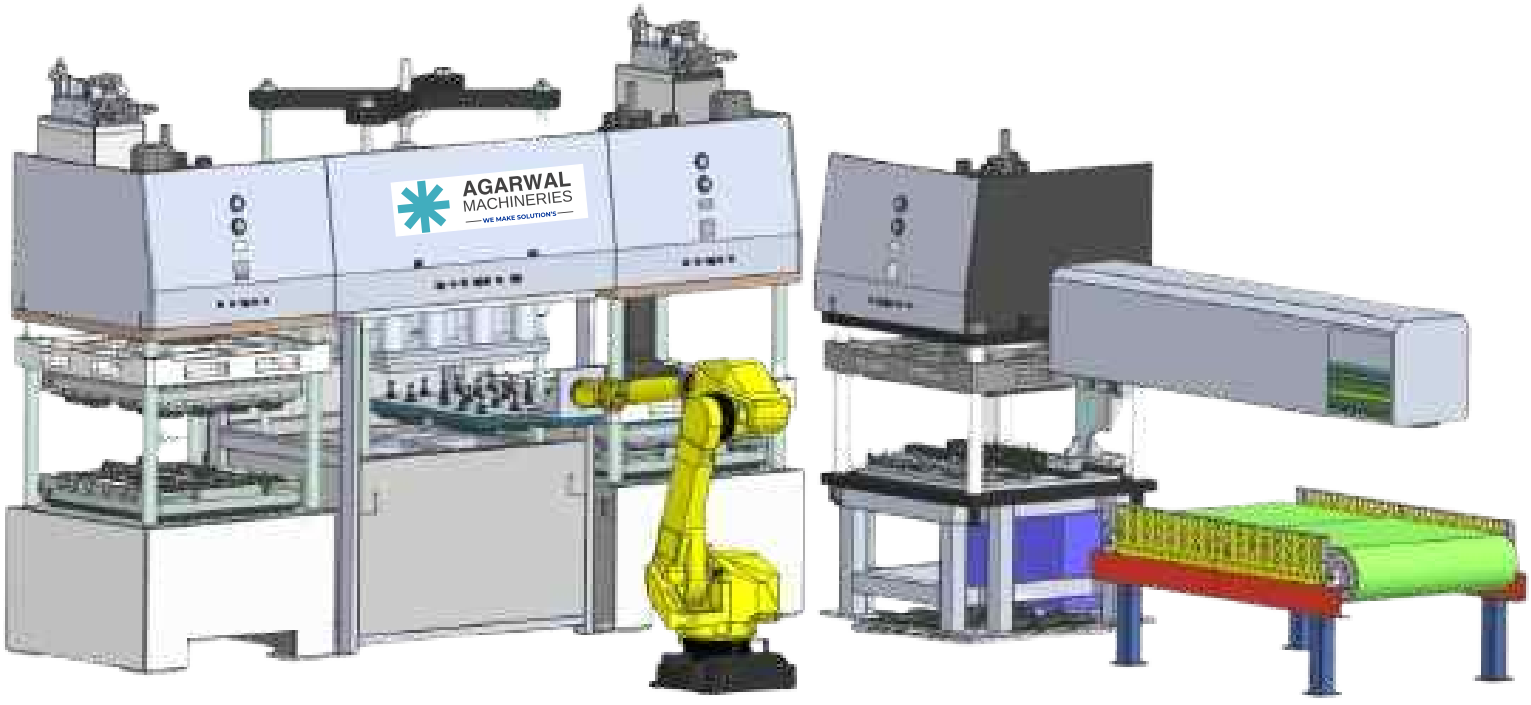
We continually upgrade the core technologies, tools, and machineries to setup high yielding units which are efficient, sustainable and easy to maintain which results in Uninterrupted production.

Why Moulded Fibre

Canefiber or Sugarcane **Bagasse** is a fibrous byproduct of sugar industry which is residue after the juice has been extracted from the sugarcane.

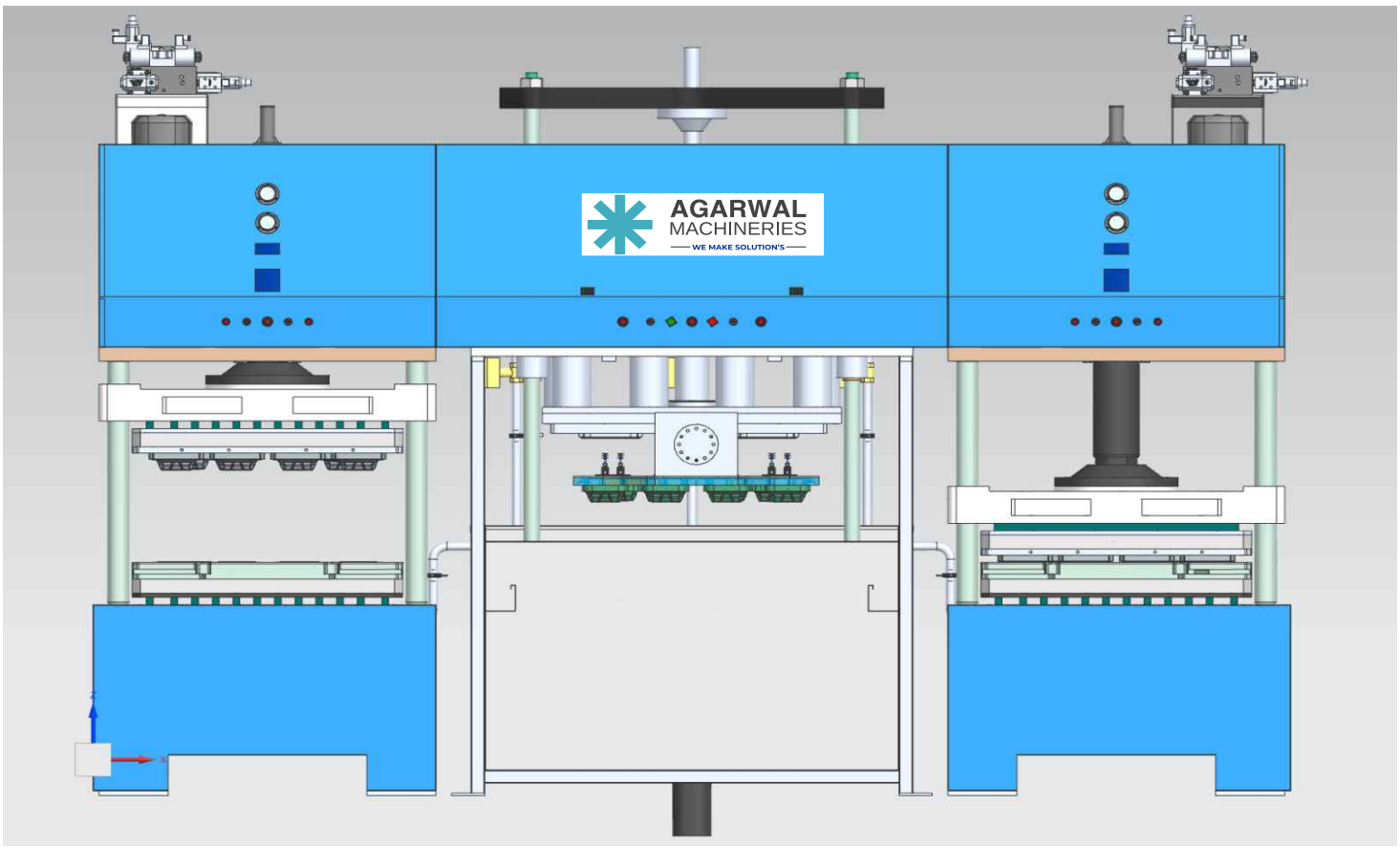
Robotic Automatic Machine With Online Trimming

CAPACITY	550-650 kg per day	Heating Mode	Thermic Fluid / Electric
DRYING	2 Station	Drive Tonnage	Up to 60 Tons
Vaccum Forming	1 Station	Trimming Tonnage	100 Tons
Trimming With Conveyor	1 Station	Pneumatic Pressure	6 kg / CBM
Forming Mould Size	1040 mm X 1000 mm	Vaccume Pressure	0.4 Kg / CBM
Drying Mould Size	980mm x 940mm	Max Product Height	75 mm
Trimming Mold size	980mm x 940mm	Drying Operations	Servo Motor Hydraulic
Machine Weight	16500 Kg	Forming Operations	Servo Motor Hydraulic
Tie Bar Distance	880 mm X 990 mm	Forming Mechanism	Down / UP Forming
Minimum Mould Hieght	70 mm	Distance Daylight	520 mm
Opening Stroke	450 mm	Without Water contact Part	As per required Mechanism
Robot	6 Axis Arms	Water Contact Part	304 SS & SS Cladding



Semi Automatic Deep Forming Machine

CAPACITY	550-650 kg per day	Heating Mode	Thermic Fluid / Electric
DRYING	2 Station	Drive Tonnage	Up to 60 Tons
Vaccum Forming	1 Station	Pneumatic Pressure	6 kg / CBM
Forming Mould Size	1040 mm X 1000 mm	Vaccume Pressure	0.4 Kg / CBM
Drying Mould Size	980mm x 940mm	Max Product Height	75 mm
Machine Weight	11500 Kg	Drying Operations	Hydraulic Power Pack
Tie Bar Distance	880 mm X 990 mm	Forming Operations	Servo Motor
Minimum Mould Hieght	70 mm	Forming Mechanism	Down / UP Forming
Opening Stroke	350 mm	Distance Daylight	420 mm
Water Contact Part	304 SS & SS Cladding	Without Water contact Part	As per required Mechanism

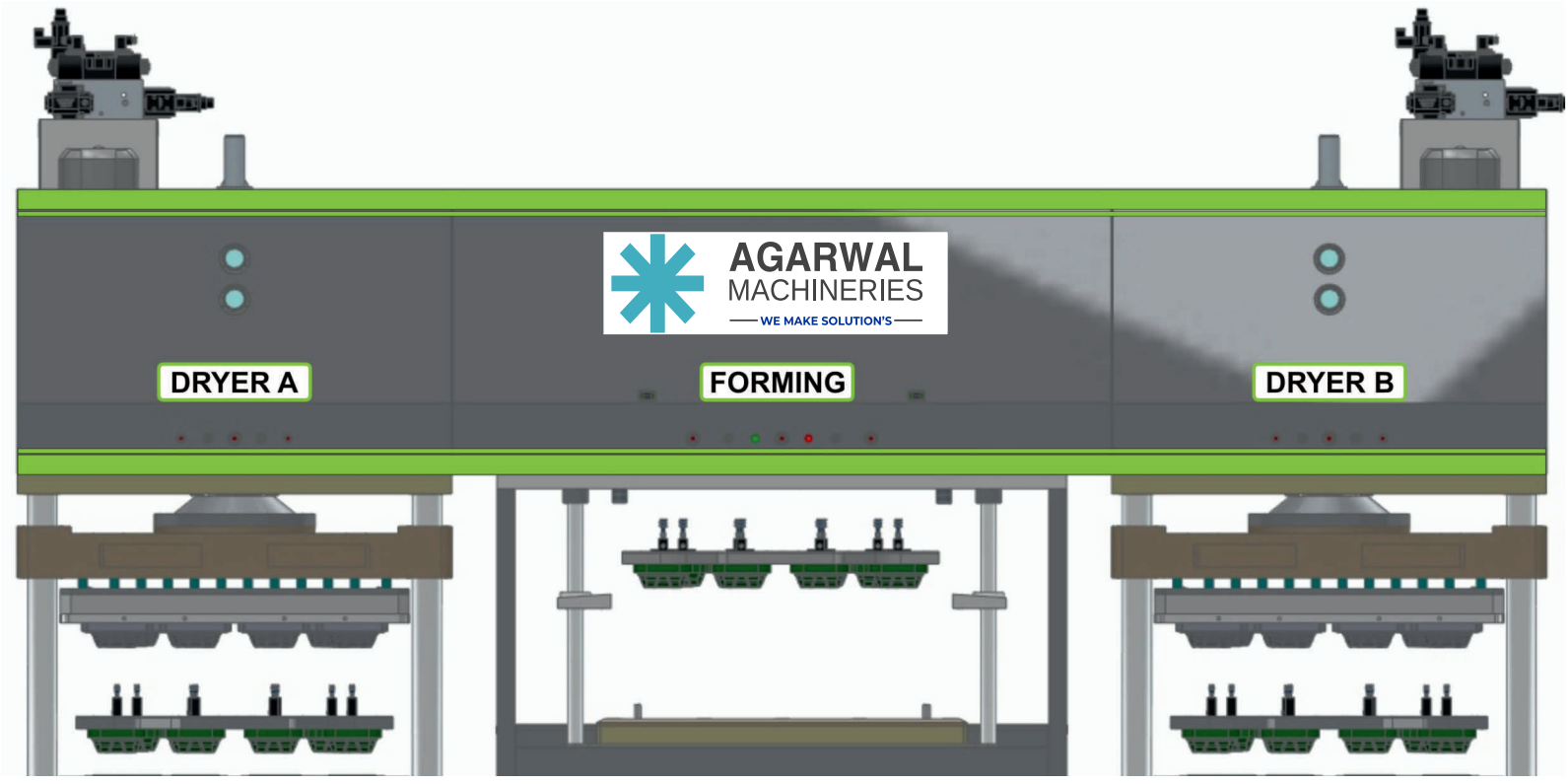


Fully Automatic Machine

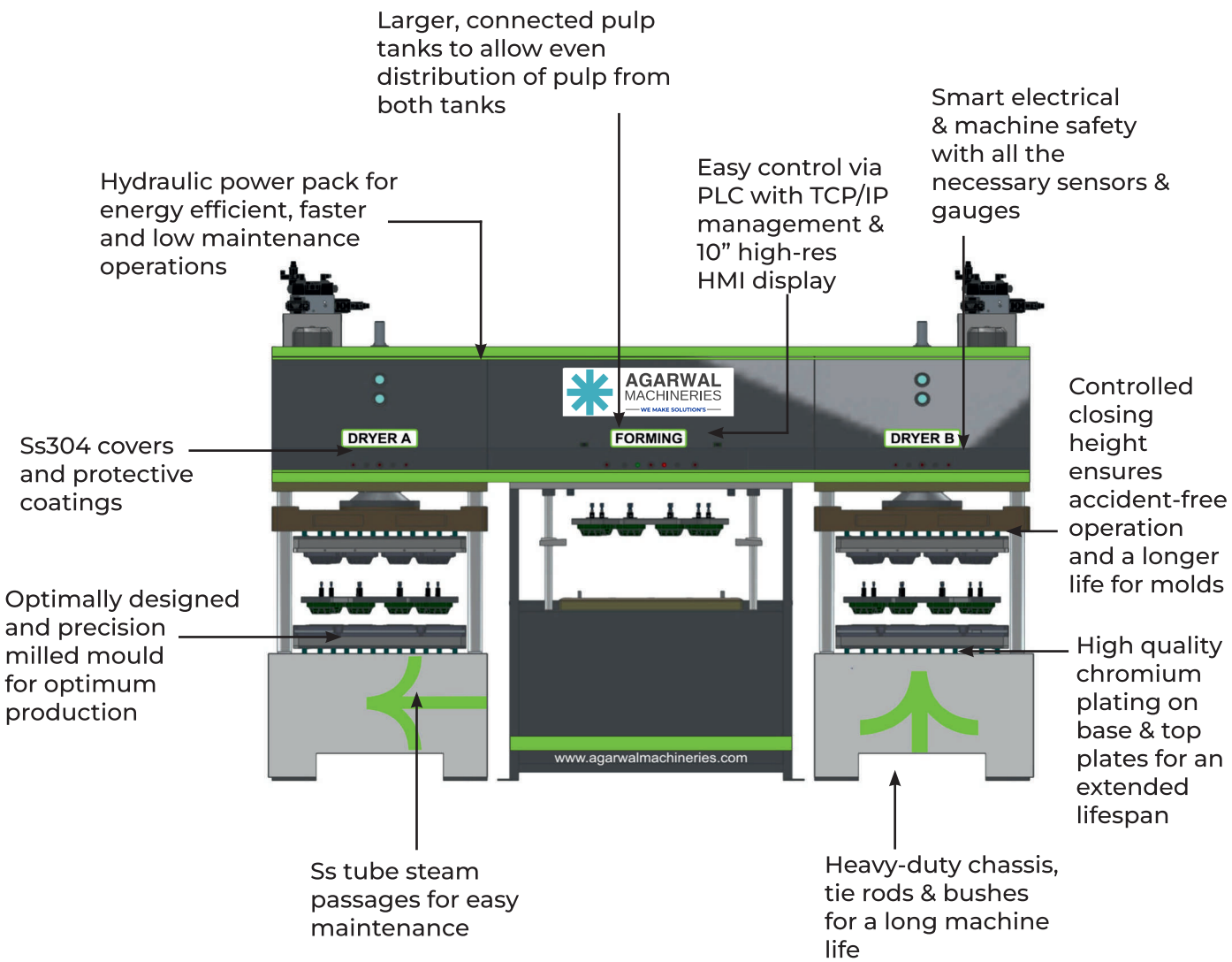
CAPACITY	1000kg to 1200 Kg per day	Heating Mode	Thermic Fluid / Electric
DRYING	2 Station	Drive Tonnage	100 Tons
Vaccum Forming	1 Station	Forming Tonnage	10 Tons
Forming Mould Size	1330 mm X 1330 mm	Pneumatic Pressure	6 kg / CBM
Drying Mould Size	1330 mm X 1330 mm	Vaccume Pressure	0.4 Kg / CBM
Trimming	Not Required	Max Product Height	100 mm
Machine Weight	25000 Kg	Drying Operations	Servo Motor Hydraulic
Minimum Mould Hieght	90 mm	Forming Operations	Servo Motor Hydraulic
Opening Stroke	350 mm	Forming	Cold Pressing
Dimension of Machine (L*W*H)	7200 mm X 2500 mm X3500 mm	Distance Daylight	440 mm
Without Water contact Part	As per required Mechanism	Water Contact Part	304 SS & SS Cladding

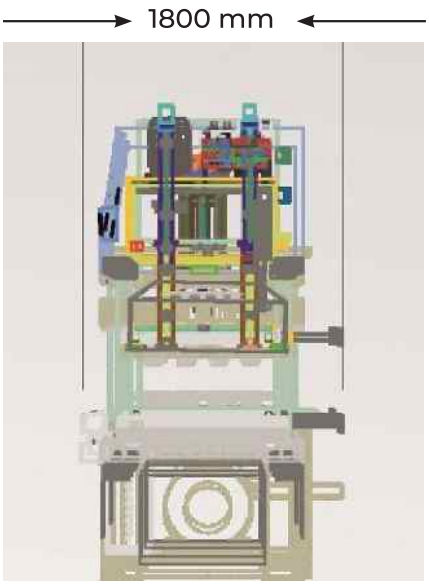
Hydraulic Upper Forming Machine

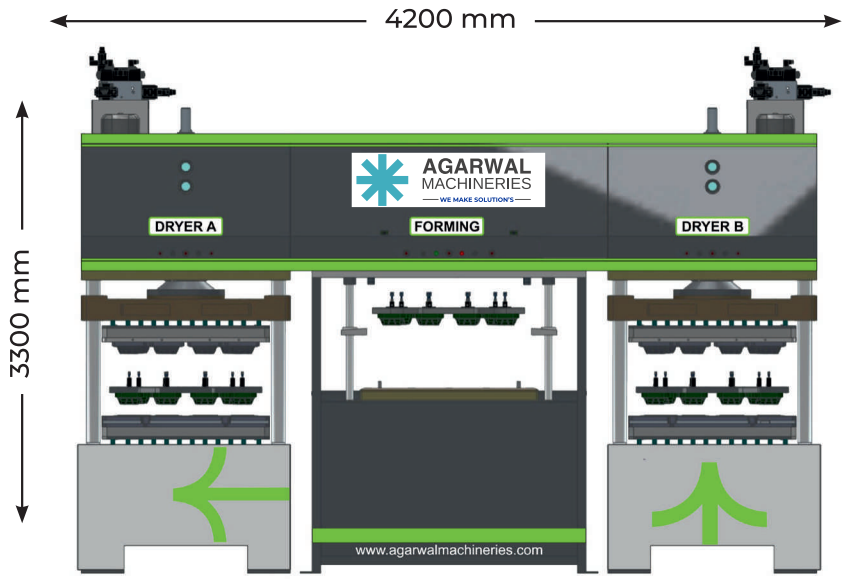
CAPACITY	550-650 kg per day	Heating Mode	Heating Mode
DRYING	2 Station	Drive Tonnage	Drive Tonnage
Vaccum Forming	1 Station	Pneumatic Pressure	Pneumatic Pressure
Forming Mould Size	1040 mm X 1000 mm	Vaccume Pressure	Vaccume Pressure
Drying Mould Size	980mm x 940mm	Max Product Height	Max Product Height
Machine Weight	11500 Kg	Drying Operations	Drying Operations
Tie Bar Distance	880 mm X 990 mm	Forming Operations	Forming Operations
Minimum Mould Hieght	70 mm	Forming Mechanism	Forming Mechanism
Opening Stroke	350 mm	Distance Daylight	Distance Daylight
Water Contact Part	304 SS & SS Cladding	Without Water contact Part	Without Water contact Part



Machine Specification







Upper forming with water seperation tank

Capacity	550-650 kg per day	Mould Size	980 x 940 mm
Drying	2 Station	Drive Tonnage	Up to 60 Tons
Forming vacum	-	-	Pressure required 0.6kg
Platen Size	1220 x 1110 mm	Drive	Hydraulic Power Pack
Heating Mode	Thermic Fluid / Electric	Max Product Height	60 mm
Machine Weight	11500 kg	-	-
Electric Connecting Load	16.5 Hp	Pnumetic Connection	6 kg
Tie bar Distance	880 x 990 mm	Drying Cycle	25 Second (With Loading/unloading)
Minimum Mould Height	70 mm	Forming Cycle	20 Second (With Loading/unloading)
Opening Stroke	350	Requirement	Thermal Fluid Oil
Distance Daylight	440	Electric Consumption Load	20%
Water Contact Part	304 SS and SS Cladding	Forming	Reciprocating Type
Without Water Contact Part	Mild Steel		

Machine Specification

High-speed edge trimming machine with automatic product removal system gives the moulded fibre products a fine edge finish with dimensional accuracy. This heavy-duty machine is specifically designed for longer duration operation, maximum output, ease of use and compatible with a wide range of moulded fibre products.

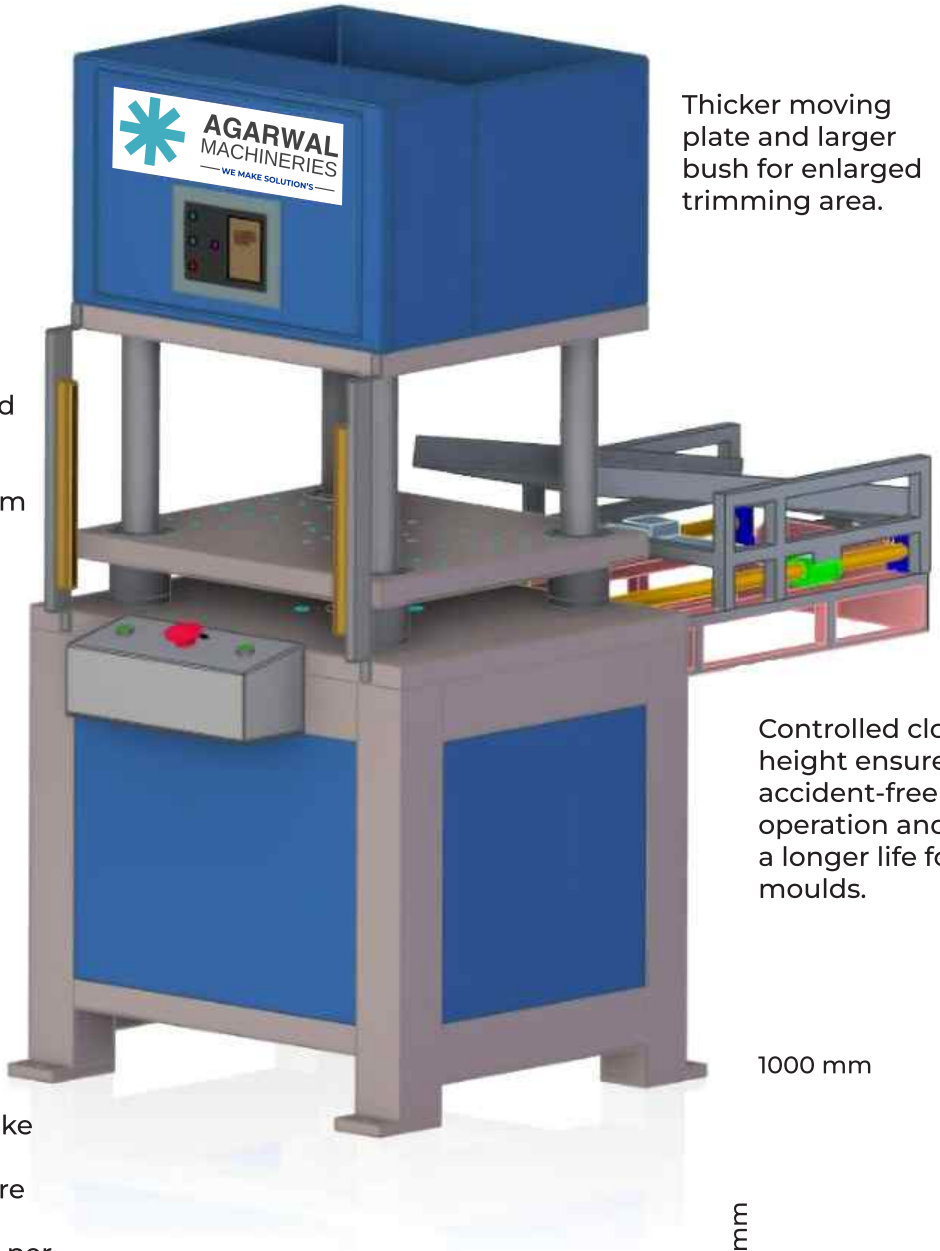
- High-speed operations for maximum output.
- Smart electrical & machine safety for hazard free operation.
- Energy efficient and low maintenance.
- SS covers and a solid built chassis for enhanced machine Life.
- Precise trimming with tolerance +/- 10 microns.
- Stepper motor based automatic product removal function.
- Trims up to 10 layers per cycle.

Cycle time	**8 Second (With Loading/ unloading)**	**Mould Type**	**Thrust Punch / Blade Type**
Platen Size	610 x 550 mm	Operating Pressure	Pneumatic
Trimming Area	420 x 420 mm	Control System	Micro-Controller Based
Max Product Height	60 mm	Drive	Rapid Hydro-Hydraulic Cylinder
Tie Bar Distance	430 mm		Stroke 250mm

Rapid-boost cylinder for reduced cycle times.

Complete SS 304 protective covers for an extended lifespan

Thicker moving plate and larger bush for enlarged trimming area.



Precisely designed and machined punch molds for precision & uniform trimmig

Controlled closing height ensures accident-free operation and a longer life for moulds.

1000 mm

1650 mm

Sensor for stroke counting with height, pressure and timing adjustment as per product height

4600 mm

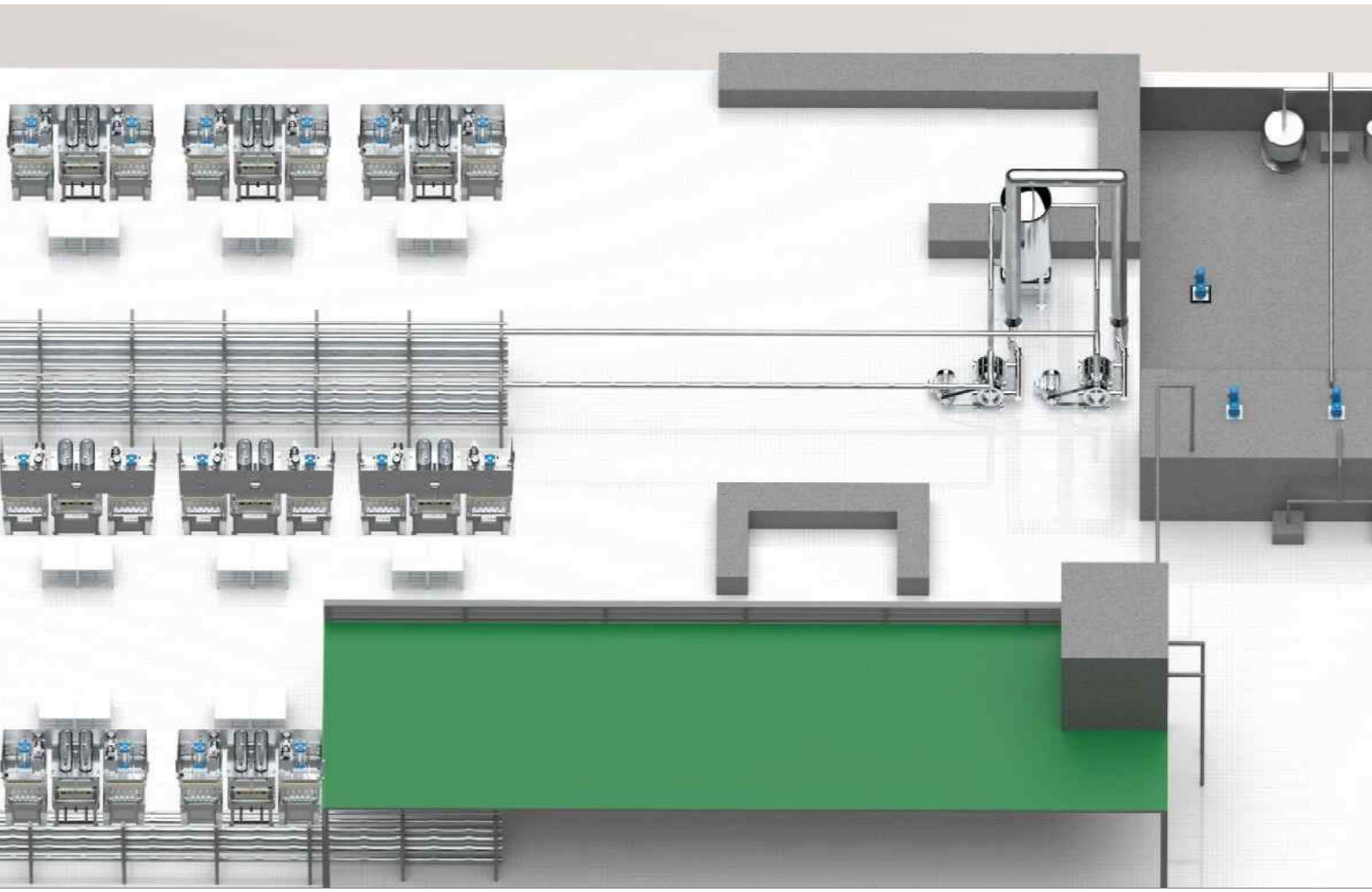
Forming, Drying & Trimming Moulds

Turnkey Solutions

We take up turnkey projects for moulded fibre tableware venture in India. Our team of expert engineers' plans, guides, trains and executes the project from foundation to finished product.

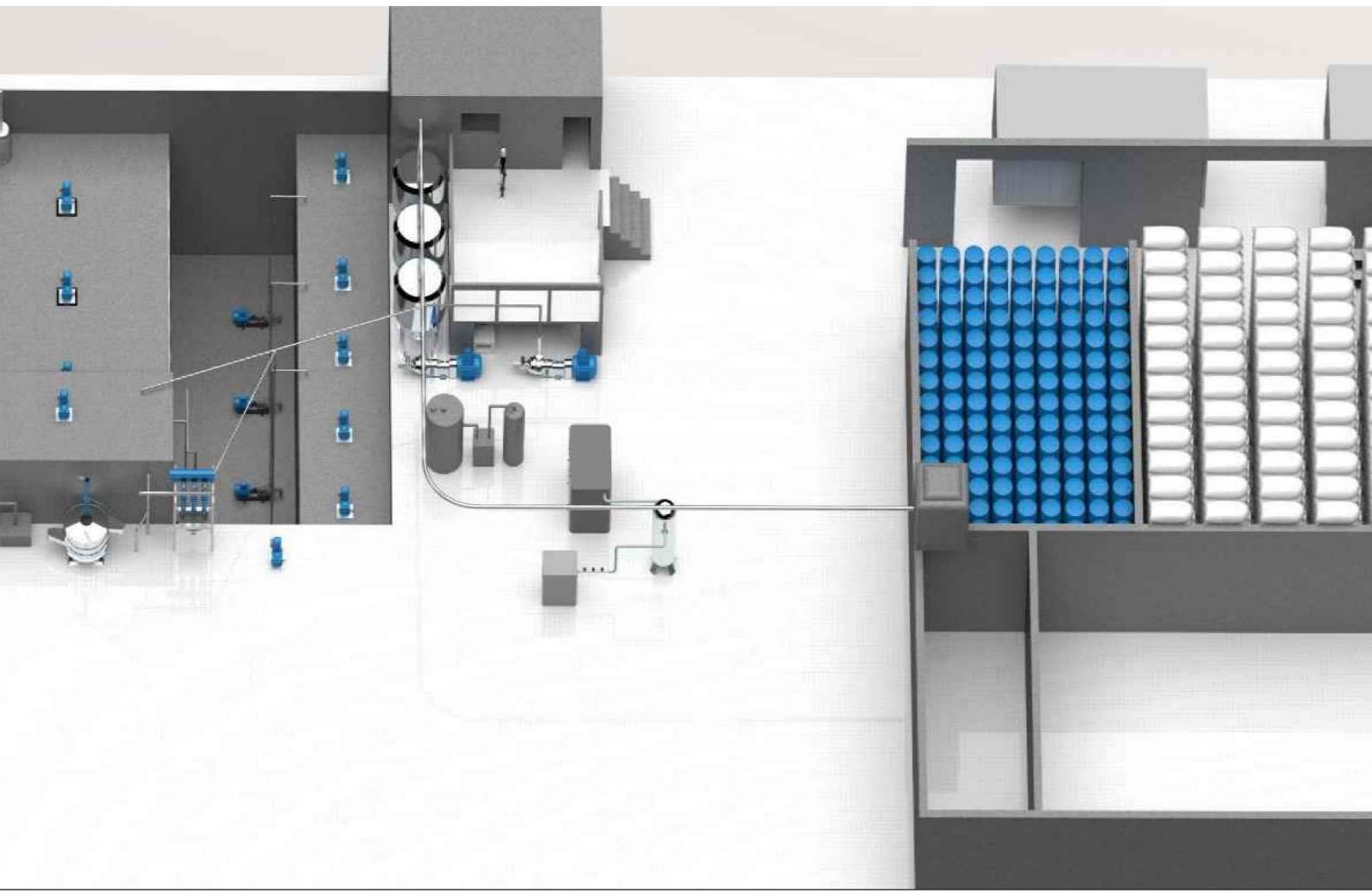
The success of a plant is not only limited to efficient machines, but also a well laid out plan for most efficient and hassle-free production at lowest cost.

- Land & civil consultancy
- Factory layout & planning
- Machinery supply
- Vendor connect
- Servicing & maintenance
- Engineering support
- Third-party equipment consultation
- Production troubleshooting
- Staff training workshops
- Quality management
- Market support
- Sales channels
- Testing & product compliance



Precision Milled Aluminium Alloy Production Moulds

Pulptech testing & production moulds are specially designed for optimized cycle outputs and reduced cost of production. We offer a wide range of products with custom platen sizes for enhanced product value generation.



www.threedotdesigns.com

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