

SWACHH 4.3

Hybrid **Ultrasonic** machines for making sanitary pads & 3-ply face masks

HIGH SPEED. LOW COST. MULTI-PURPOSE.

WHO ARE WE?



Saral Designs is working on increasing access to high quality sanitary napkins. Founded in 2015 by **alumni of IITs**, Saral is taking a systematic approach to address challenges in the menstrual hygiene space.

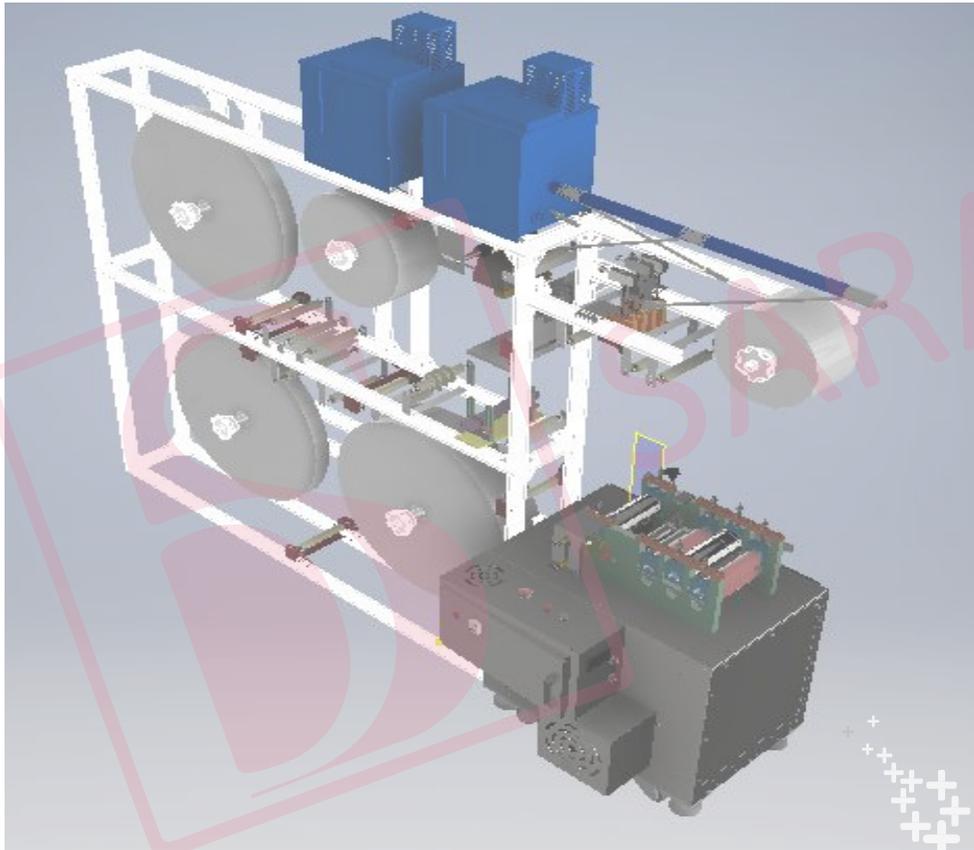
Saral has developed **India's first indigenously designed and patented** machine, 'Swachh', for producing ultra-thin sanitary napkins at a decentralised scale. While decentralization cuts down the distribution costs, the automated production ensures economies of scale and product quality. Swachh ensures production quality equivalent to that of ultra-thin napkins manufactured by multinationals at less than half of their rate, maintaining the quality parameters (of large length, high absorption using SAP gel technology, dry and soft feel).

This will enable several manufacturers to collectively solve the problem of quality, access and affordability of menstrual hygiene products.

With production units spread **across 7 different countries**, Swachh machines are robust and the best choice for long term sustainability.

SWACHH 4.3

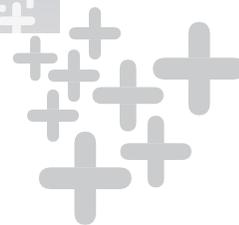
Hybrid Ultrasonic machines for making sanitary pads & 3-ply masks



Swachh 4.3 are ultrasonic machines for producing quality ultra thin sanitary napkins and high quality 3 ply masks at a faster rate.

The machines are compact, easily operable and are best for medium to high scale production requirement.

Being modular, one can chose the add-ons according to market needs.



Specifications of Swachh 4.3

Dimensions (L x B x H)	10.5 x 3 x 8.5 (Ft)
Pad Production Rate	70 pads/min*
Pad Type	Ultrathin with wings with CORE CUTTING and deep embossing
Release Paper	Automatic application using positioning glue
Weight	550 Kgs
Air Pressure	8-10 kg/cm ²
Power Consumption	10.5 KW

For Mask Add on	
Mask Production Rate	70 masks/min
Mask Body Type	3 ply face mask without nose wire
Earloop attachment	Semi-automatic through ultrasonic spot sealing machine

Note: The production of 3 ply mask bodies is semi-automatic and the earloop welding process is manual

All product specifications are subject to change without notice as we are in the process of constant innovation and improvement in the machine

*Maximum rated capacity of the machine

Salient Features for sanitary pad unit



Compact machine



Production capacity - 70 pads /min.



Continuous rotary sealing



Pad counter



Operator friendly



Can make pads with release paper and positioning glue



Deep embossing



Modular Aluminium structure

Note:

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- Sound within safety range less than 80dB.

Mask Modification (Add-on)

98.9% Bacteria Filtration Efficiency



UV Sterilized



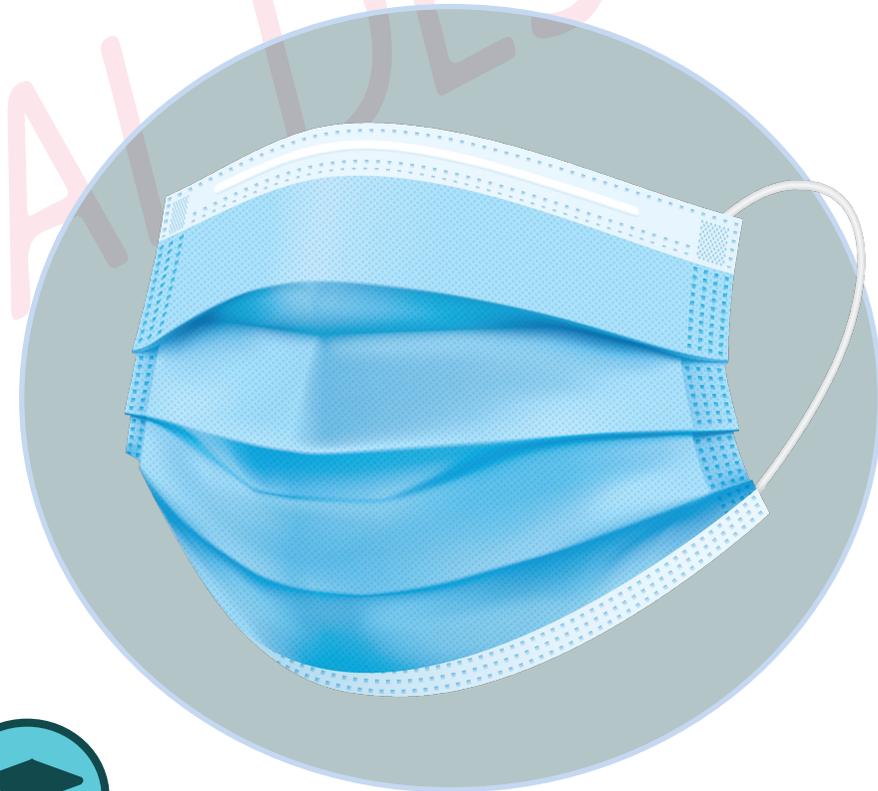
Splash-Proof



Easy Breathability



3 Layers with a Meltblown Filter



Note:

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- Please refer Add-ons for mask modification

Requirements of SWACHH 4.3

Power Requirement	<ul style="list-style-type: none"> i. 220 VAC, Single phase with 10.5 KW load capacity ii. 420 VAC, Three phase for 5HP Compressor iii. If electricity supply is irregular in the factory, it is advisable to purchase a generator iv. IGBT based Static Voltage Stabilizer- 15 kVA
Air Requirement	5Hp Compressor, 16 CFM
Space Requirements	<p>Total space requirement of 4000 square feet including</p> <ul style="list-style-type: none"> i. Clean and dry storage facility for raw materials and finished goods of 3000 square feet ii. Clean closed room of at least 1000 square feet needs to be maintained for the production floor and packaging of pads
Staff requirements per shift	<ul style="list-style-type: none"> i) 2-3 skilled labour for operating the machine ii) 8-10 semi- skilled labours for packaging of the product per shift **Trifolding machine is available which can reduce the number of people in trifolding to only 2. Please see the brochure for Saral Pad Trifolder for more details. iii) 1 Production Manager (optional) for ensuring supply chain and managing production staff
Process Guidelines	Once the machine's possession is given to the buyer, detailed guidelines for production will be provided and they must be followed

Training

The training will be in 2 parts

Part 1

This training will require the production manager to travel to Mumbai for a 2 days training program at Saral office.

The following modules will be covered:

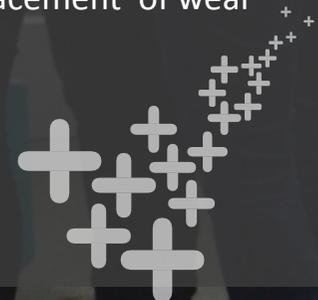
1. Overview of the industry and Swachh technology
2. Sales and Marketing strategies
3. Pad composition
4. Keeping stock and accounts of raw materials as well as finished goods

Part 2

After installation at the buyer's site, Saral's Engineer will provide a 3-days training on the following topics on-site to all the staff members involved in production including the production manager.

This training will cover the following modules:

1. Operating the machine
2. Loading and unloading of raw materials on machine
3. Best practices to be followed for production
4. Regular maintenance of the machine including replacement of wear and tear parts
5. Managing basic breakdown



Installation & Warranty

Installation details

Once the machine is received at the buyer's premises, one staff members of Saral will travel to the installation site.

The purpose of this one week-long visit will be as follows:

1. Installation of the machine
2. Inspection of the production facility
3. Make sure that the machine is commissioned properly

The cost of travelling, lodging and boarding of the Saral staff needs to be borne by the buyer. Before the installation, the buyer should procure relevant licenses, carpentry, air requirements, and electricity work at their own expense.

Note: At the time of commissioning, two personnel from the buyer's end should be present to assist Saral's engineer according to regular shift timings (8hours).

Warranty

1. Each machine comes with a one-year warranty against manufacturing defects, damages during transportation and installation.
2. Critical Spares for regular maintenance for 1 year are provided for free at the time of installation.
3. Any component failure or part replacement beyond the Critical spares, will be payable by the buyer as per actuals. Saral can ship components as required to the buyer as per actual costs.
4. If Saral staff needs to travel to the production site for repair during the warranty period, the cost of travel, lodging and boarding needs to be borne by the buyer.
5. Regular free consultation (via audio or video calling) shall be available to the Production Engineer for any questions.



Project Financing:

For promoting menstrual hygiene and Entrepreneurship, Government of India has multiple loan schemes available by NABARD (upto INR 5Lac) and nationalized bank schemes like Mudra loan (upto INR 10Lac).

Find details here: <https://saraldesigns.in/how-to-finance-your-sanitary-napkin-business/>

Saral Designs Automatic machines are now registered under **TUFS scheme**. In future, if you decide to upgrade your machine to an automatic machine, subsidy scheme upto 15% can be availed. Please check the TUFS website for more details and eligibility criteria.

<http://texmin.nic.in/schemes/technology-upgradation-fund-scheme>





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