

# SYNCO INDUSTRIES LIMITED



**Automatic Non-stick Cookware  
Production Line**



# PROFILE

Established in the year 1982, we, "Synco Industries Limited", are one of the leading organizations engaged in manufacturing and supplying a full range of Surface Finishing Machines. Our Range includes Shot Blasting machines, Shot Peening machines, Airless Blasting Machines, Y Hanger Type Shot Blasting machines, Tumbblast Shot Blasting Machines, Blast Rooms, Paint Booths, Automatic Multi Station Shot Blasting machines, Swing Table Type Shot Blasting machines, Customised Wet Blasting Machines, Automatic Deflashing machines, Cryogenic Deflashing Machines, Arc Spray Systems, Flame Spray Systems and Cut Wire Shots. We also manufacture customised shot blasting machines/ wet blasting equipment/ shot peening equipment with complete automation and PLC / HMI controls. We also manufacture and supply a complete range of spares to support our equipment as well as spares for equipment of other OEMs. We supply complete range of abrasive media for blasting and surface finishing applications and our range includes Steel Shots, Steel grits, Syncolox Aluminum Oxide, Syncolite Glass Beads, SyncoPlast Plastic Media, Syncolon Nylon Media, CrNi Cast SS Shots , Garnets, Copper Slag etc.

Our strength lies in providing end to end surface finishing solutions to our customers.

## Range of our Products:

- Airless & Pneumatic Blasting Machines
- Shot Peening Machine
- Fume Extractors
- Dust Collectors
- Paint Booths
- Deflashing Machines
- Industrial Ovens
- Arc spray guns
- Cryogenic Deflashing Machines
- Flame spray gun
- Ventillation and Climate Control Solutions.
- Safety Equipment's
- Consumables Abrasive Media
- Spare parts
- Blast Room
- Site Services



# www.synco.co.in

Contact Us:

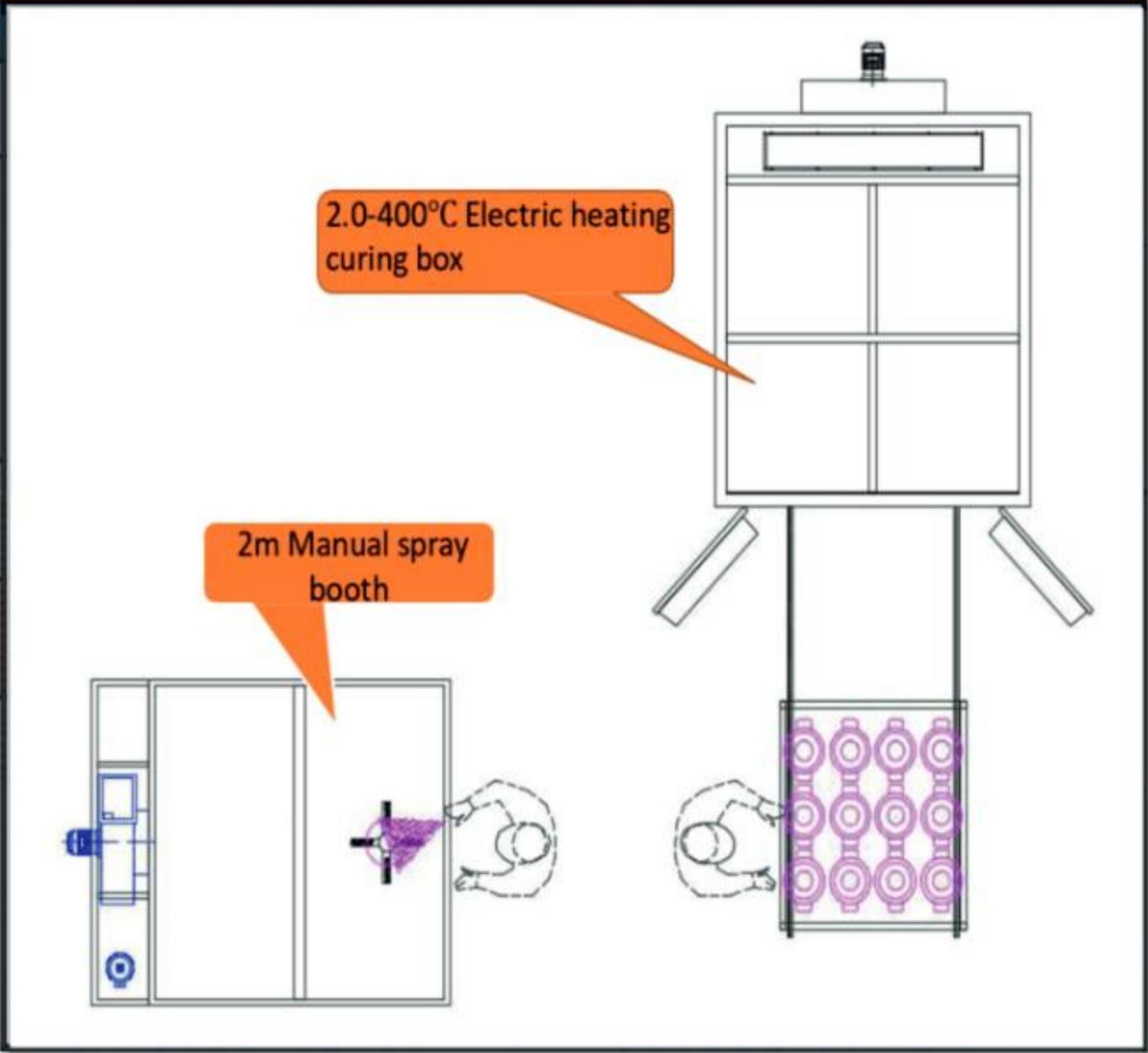
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# Non Stick Cookware Coating Line Catalogue

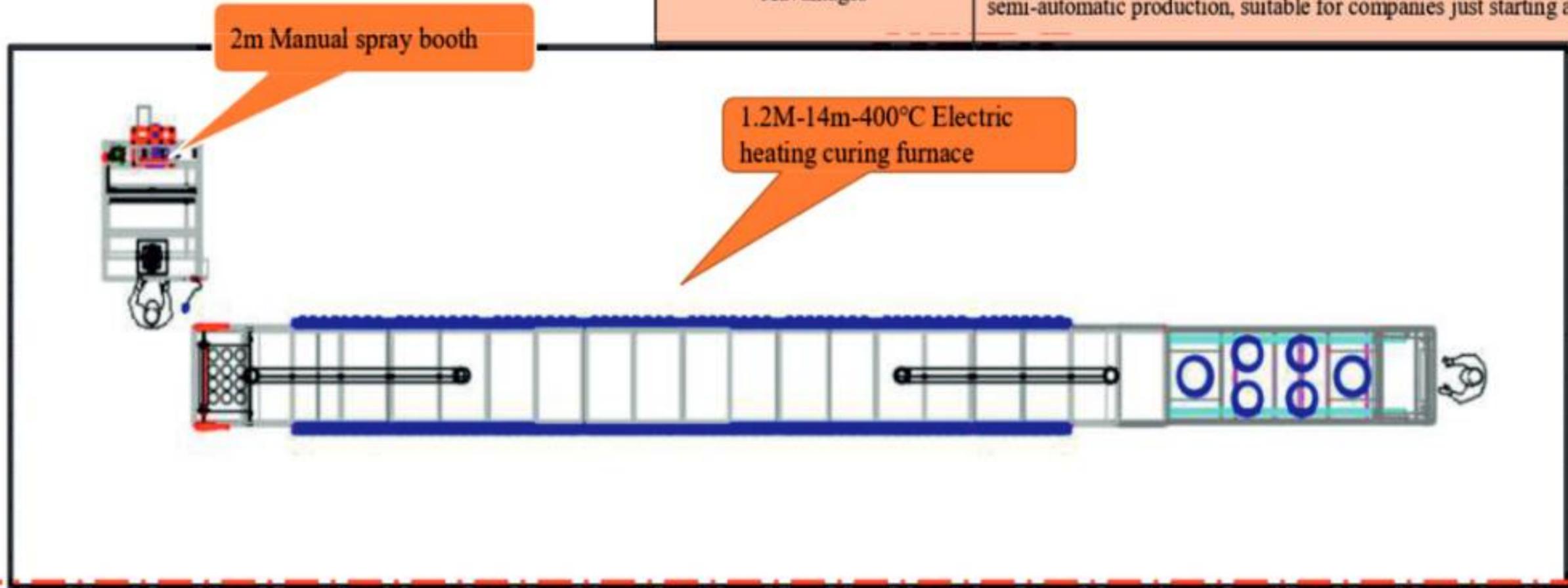
<b>SYN-100# (General configuration, 1 layer)</b>	<b>Applicable</b>	
	Hourly Capacity: 50-150pcs/One layer/Single surface	
Configuration	2m Manual spray booth*1 Manual spray gun*1 Paint supply pumps*1	One 40' Container
	2.0-400°C Electric heating curing box oven*1	
	Manual sandblasting machine *1	
Process	Manual spray, manually load workpieces on curing box rack, curing in box	
Advantages	Low cost and small floor area It is suitable for spraying in small factories that have just started a business, also suitable for spraying samples for experimental spraying.	



## Non Stick Cookware Coating Line Model



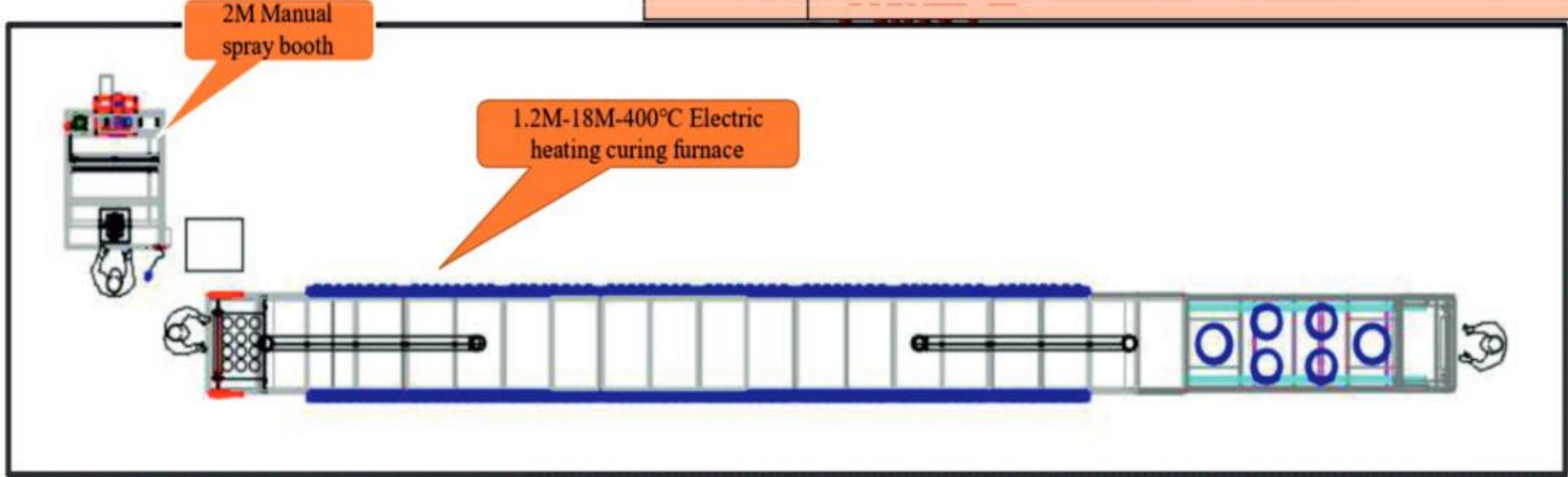
SYN-200# (General configuration, 1 layer)		Applicable
		Output/hour: 200-300PCS/One layer/Single surface
Configuration	2m Manual spray booth*1 Manual spray gun*1 Paint supply pumps*1	One 40' Container
	1.2M-14m-400°C Electric heating curing furnace	
	Manual sandblasting machine *1	
Process	Manual spray, manually move workpieces to curing furnace for curing, width of furnace meshbelt 1.2m, operating speed $\leq 0.4\text{m/min}$ , shared by inner & outer coating curing.	
Advantages	Small investment, small footprint, manual spraying and automatic curing, semi-automatic production, suitable for companies just starting a business.	



# Non Stick Cookware Coating Line Model



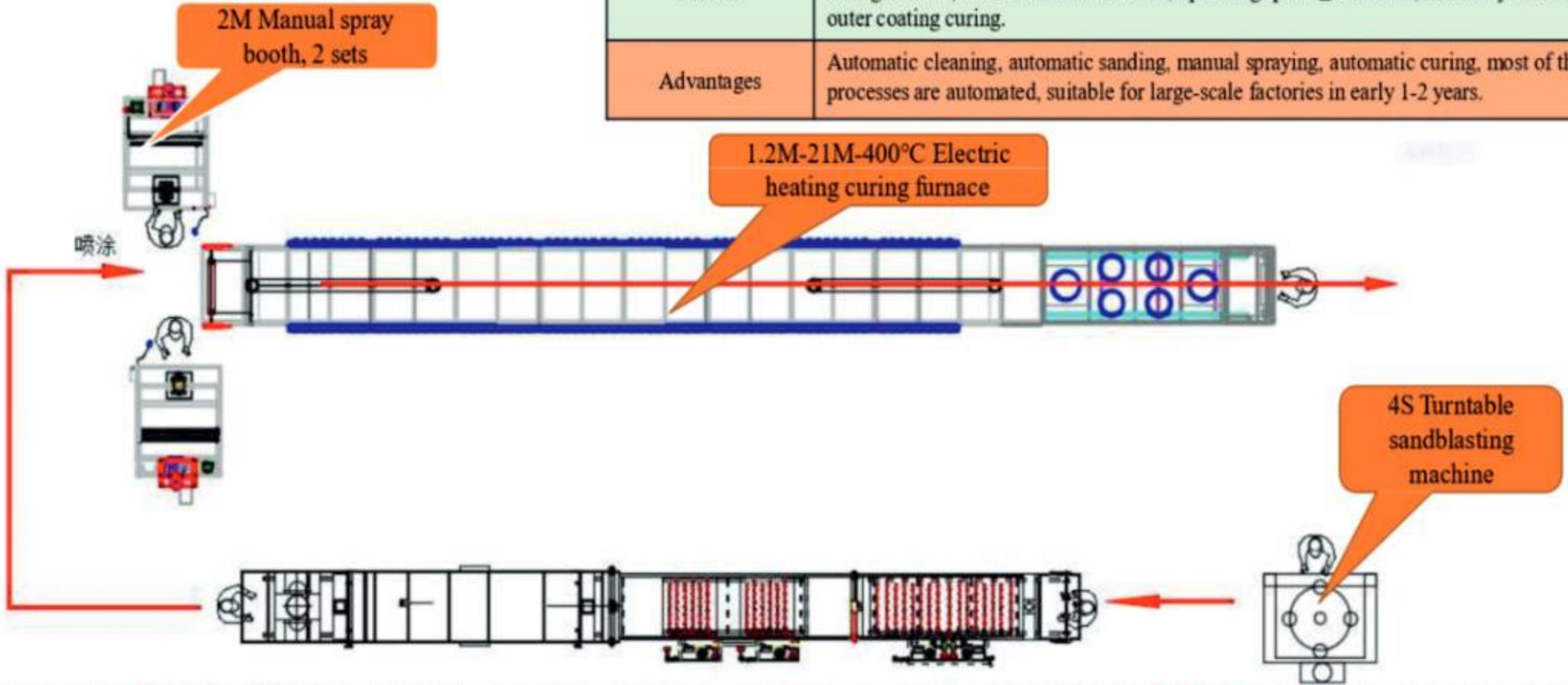
<b>SYN-300#</b> (General configuration, 1 layer)		<b>Applicable</b>	
		Output/hour: 300-400PCS/One layer/Single surface	
Configuration	2m Manual spray booth*1 Manual spray gun*1 Paint supply pumps*1	One 40' container	
	1.2M-18M-400°C Electric heating curing furnace		
	Manual sandblasting machine *1		
Process	Manual spray, manually transfer workpieces to curing furnace, width of furnace mesh belt 1.2m, operating speed ≤0.6m/min, shared by inner & outer coating curing.		
Advantages	Small investment, small footprint, manual spraying and automatic baking, semi-automatic production, suitable for small-scale factory spraying just started.		



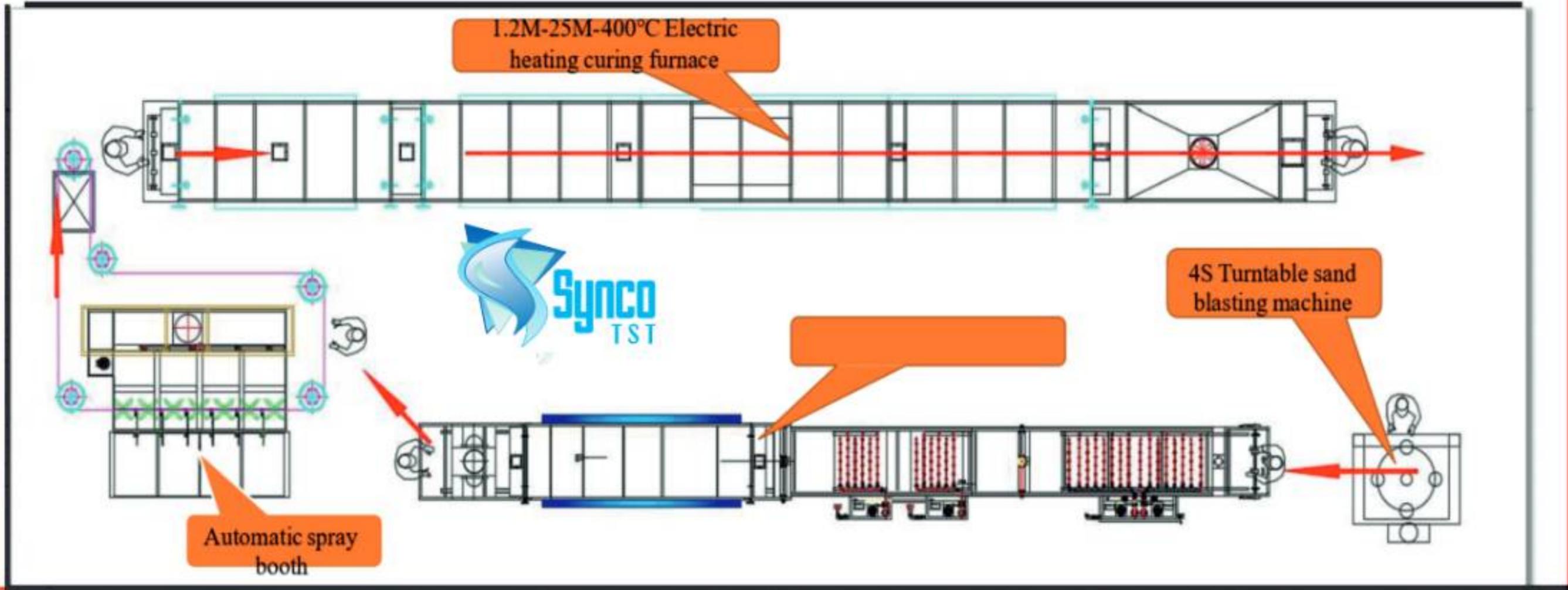
# Non Stick Cookware Coating Line Model



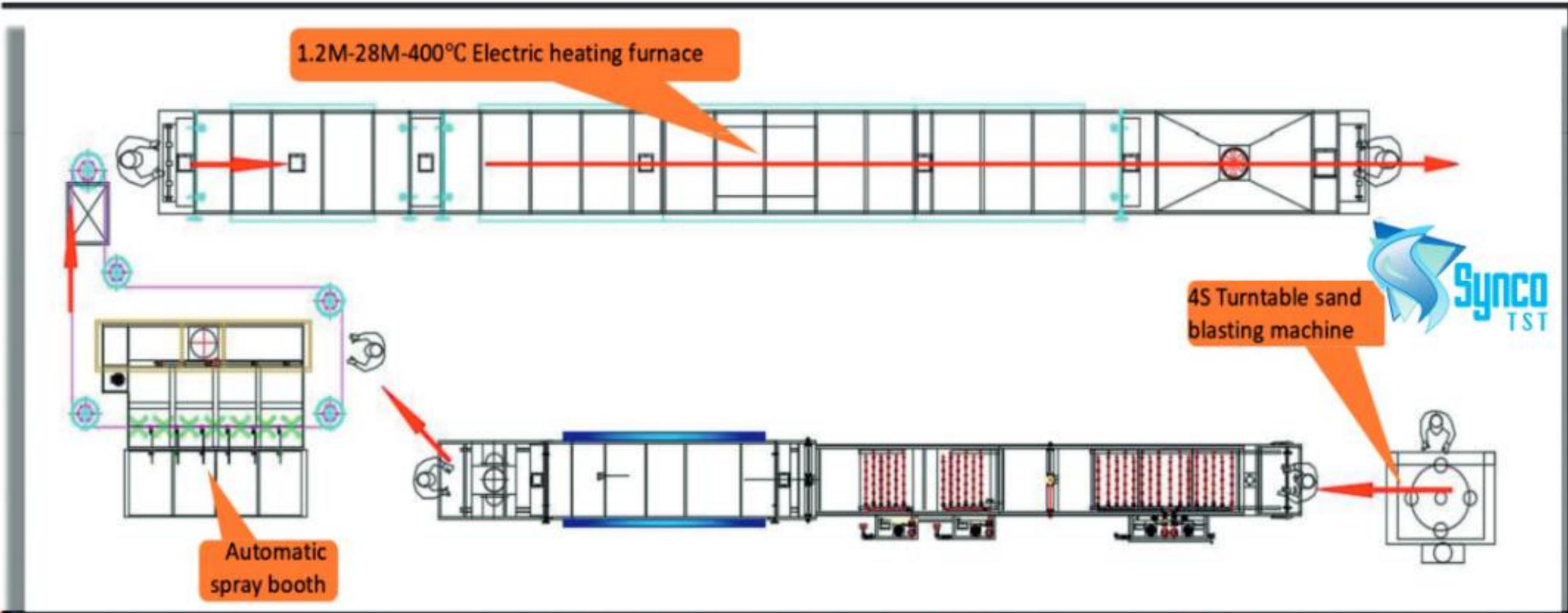
SYN-500# (General configuration, 1 layer)		Applicable	
		Output/hour: 400-500PCS/One layer/Single surface	
Configuration	2M Manual spray booth* 2 sets ; Manual spray gun*2 sets Paint supply pumps*2 sets		Two 40' containers
	1.2M-21M-400°C Electric heating curing furnace*1 set		
	4S Turntable sandblasting machine*1 set		
Process	Automatic washing, automatic sand blasting, manual spray, manually load workpieces to curing furnace, width of meshbelt 1.2m, operating speed ≤0.8m/min, shared by inner & outer coating curing.		
Advantages	Automatic cleaning, automatic sanding, manual spraying, automatic curing, most of the processes are automated, suitable for large-scale factories in early 1-2 years.		



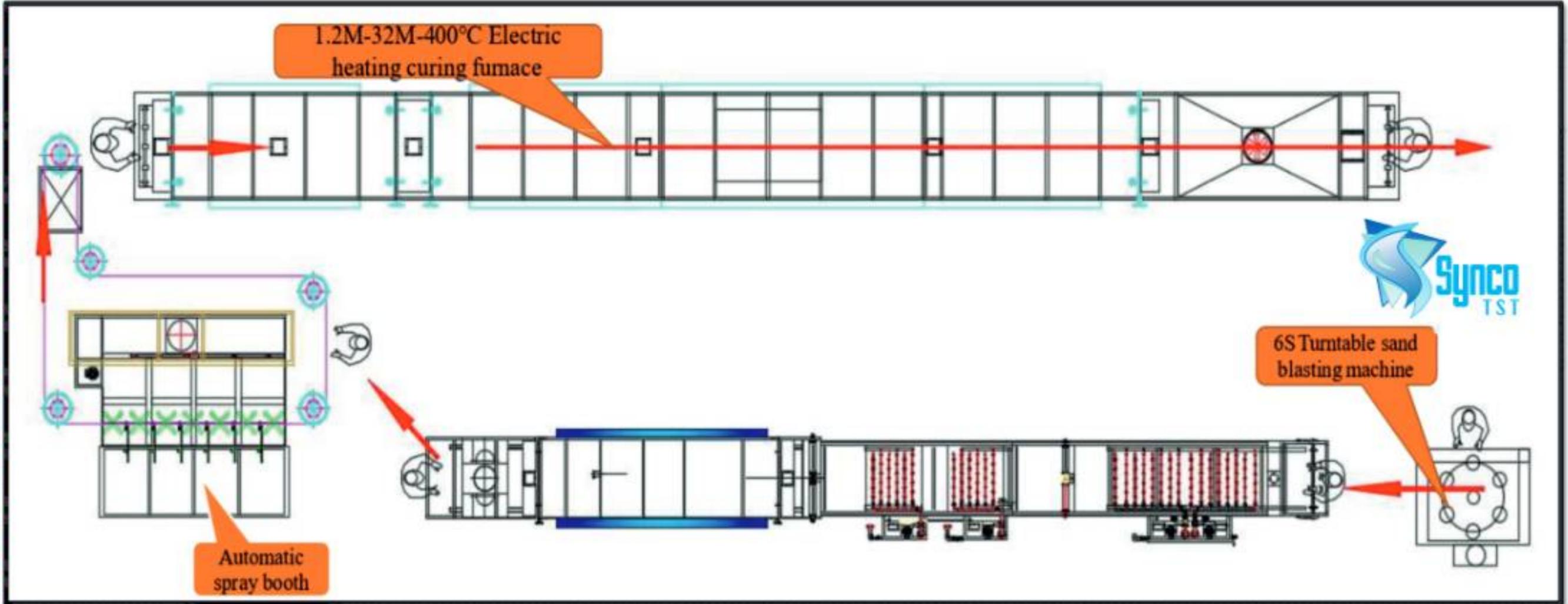
SYN-700# (General configuration, 1 layer)	Applicable	
	Output/hour: 500-600PCS/One layer/Single surface	
Configuration	3M-4P Automatic spray booth*1 ; Automatic spray gun*4 Paint supply pumps*1 (Or paint pressure tank)	Three 40HQ containers
	1.2M-25M-400°C Electric heating curing furnace*1 Mesh belt width 1.2m, operating speed $\leq 0.9\text{m/min}$ , shared by inner and outer coating curing.	
	4S Turntable sandblasting machine*1	
Process	Sand blasting → degreasing → automatic spray → transfer workpieces to curing furnace → cooling, unloading	



<b>SYN-800#</b> (General configuration, 1 layer)	<b>Applicable</b>	
Configuration	Output/hour: 600-700PCS/One layer/Single surface	
Process	Sand blasting → degreasing → automatic spraying → transfer workpieces to curing furnace → cooling, unloading	
3M-4P Automatic spray booth*1 set ; Automatic spray gun*4sets ; Paint supply pumps*1 set (Or paint pressure tank) 1.2M-28M-400°C Electric heating curing *1 set Mesh belt width 1.2m, operating speed ≤1.0m/min, shared by inner and outer coating curing. 4S Turntable sandblasting machine*1 set	Three 40HQ containers	



<b>SYN-1000#</b> (General configuration 1 layer)		Applicable	
		Output/hour: 700-800PCS/One layer/Single surface	
Configuration	3M-4P Automatic spray booth*1 set ; Automatic spray gun*4 sets; Paint supply pumps*1 set (Or paint pressure tank)		Three 40HQ containers
	1.2M-32M-400°C Electric heating curing furnace* 1 set Mesh belt width 1.2m, operating speed ≤1.2m/min, shared by inner and outer coating curing.		
	QXJ/14.5M-1.0M-3C-150°C Washing machine* 1 set (Optional)		
	6S Turntable sand blasting machine* 1 set		
Process	Sand blasting→degreasing →automatic spraying→transfer workpieces to curing furnace →cooling, unloading		



# SYN-400#

(High configuration 2 layers)

Applicable

Output/hour: 400-500PCS

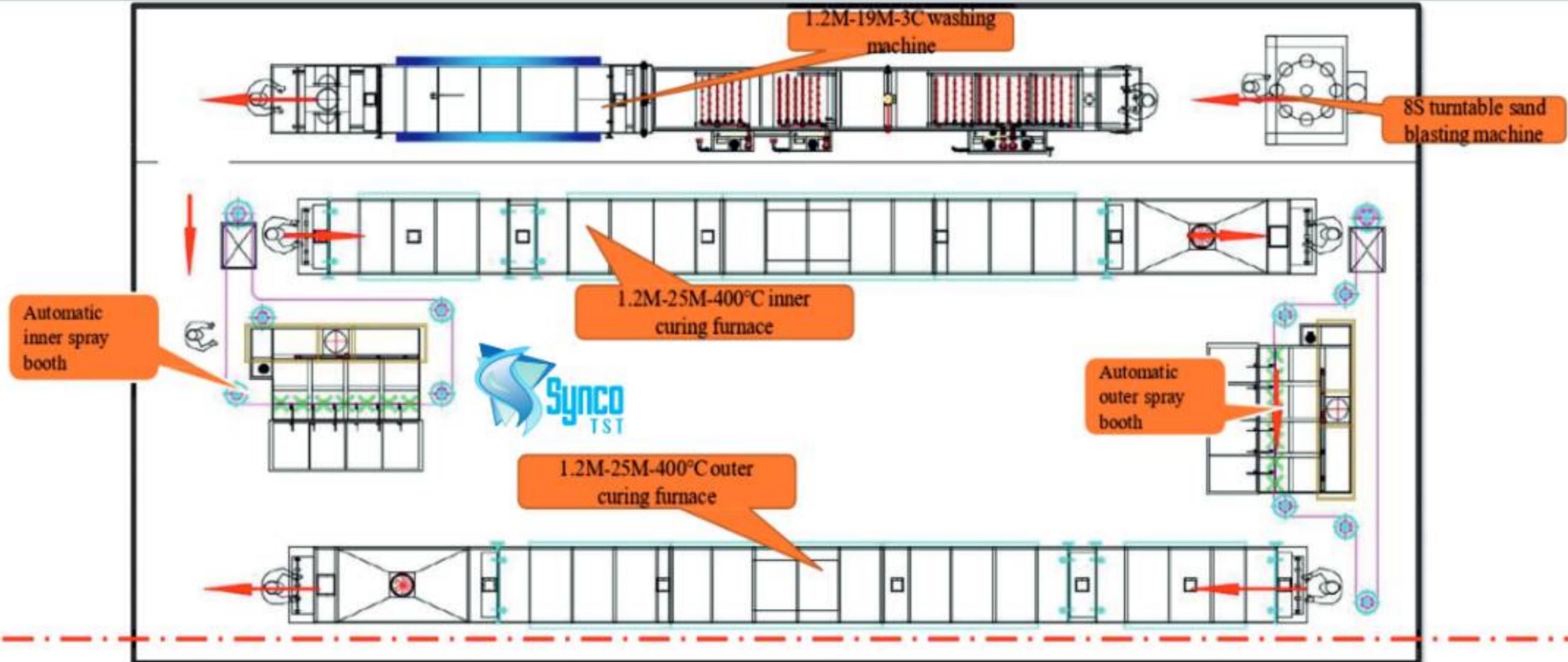
3M Automatic inner spray booth+3M Automatic outer spray booth; Automatic spray gun\*8 sets; Paint supply pumps\*2 sets (Or paint pressure tank)

Configuration 25M Inner curing furnace+25M Outer curing furnace  
\*Curing furnace meshbelt width 1.2m, operating speed  $\leq 0.8\text{m/min}$ , inner and outer coating curing independently

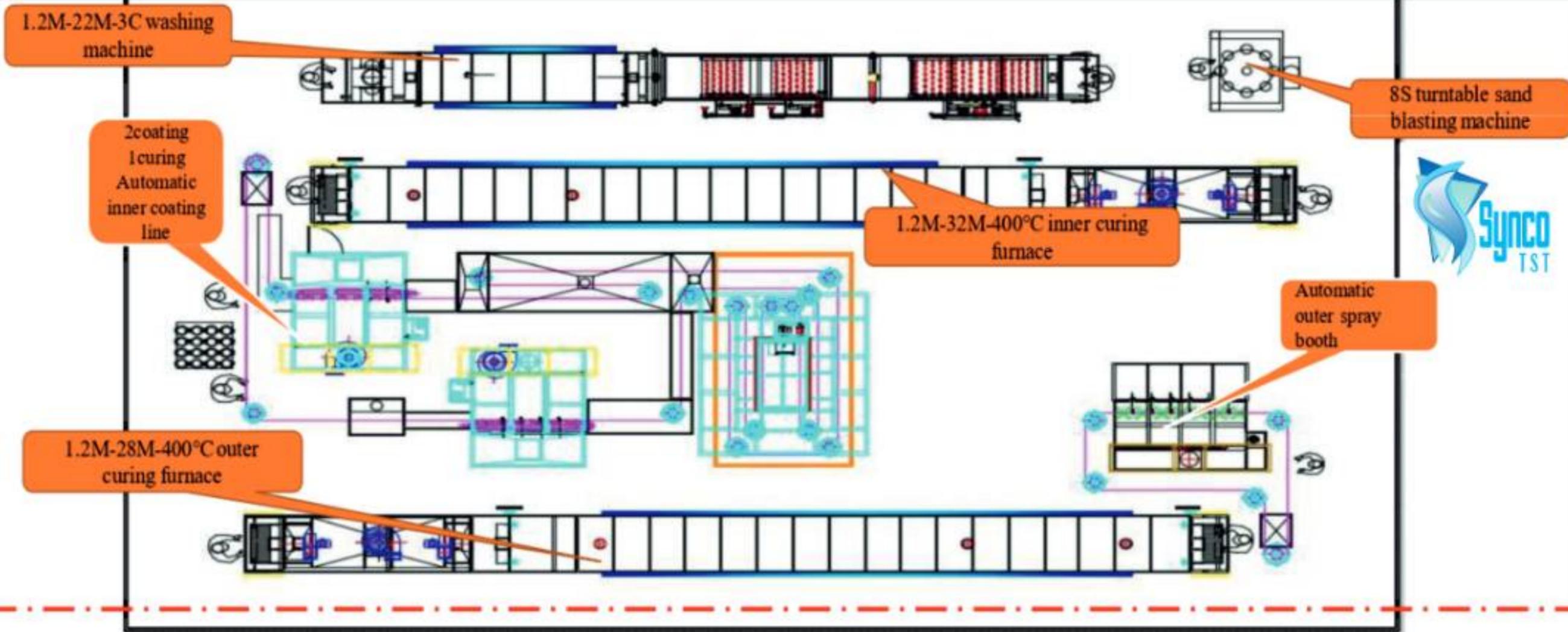
8S turntable sand blasting machine\* 1 set

Four 40 HQ Container

Process Sand blasting→degreasing→transfer workpieces →automatic inner spraying→transfer workpieces to inner curing furnace→cooling, unloading→polishing→automatic outer spraying→transfer workpieces to outer curing furnace→cooling, unloading



<b>SYN-600#</b> (High configuration 3 layers)		<b>Applicable</b>	
		Output/hour: 600-700PCS	
3M Automatic inner spray booth+3M Automatic outer spray booth; Automatic spray gun*8 sets; Paint supply pumps*2 sets (Or paint pressure tank)			
Configuration	32M Inner curing furnace+28M Outer curing furnace *Curing furnace meshbelt width 1.2m, operating speed ≤1.0 m/min, inner and outer coating curing independently	Four 40HQ containers	
8S turntable sand blasting machine*1 set			
Process	Sand blasting→degreasing→water washing→water washing→drying→transfer workpieces →automatic inner spraying→transfer workpieces to inner curing furnace→cooling, unloading→polishing→automatic outer spraying→transfer workpieces to outer curing furnace→cooling, unloading		

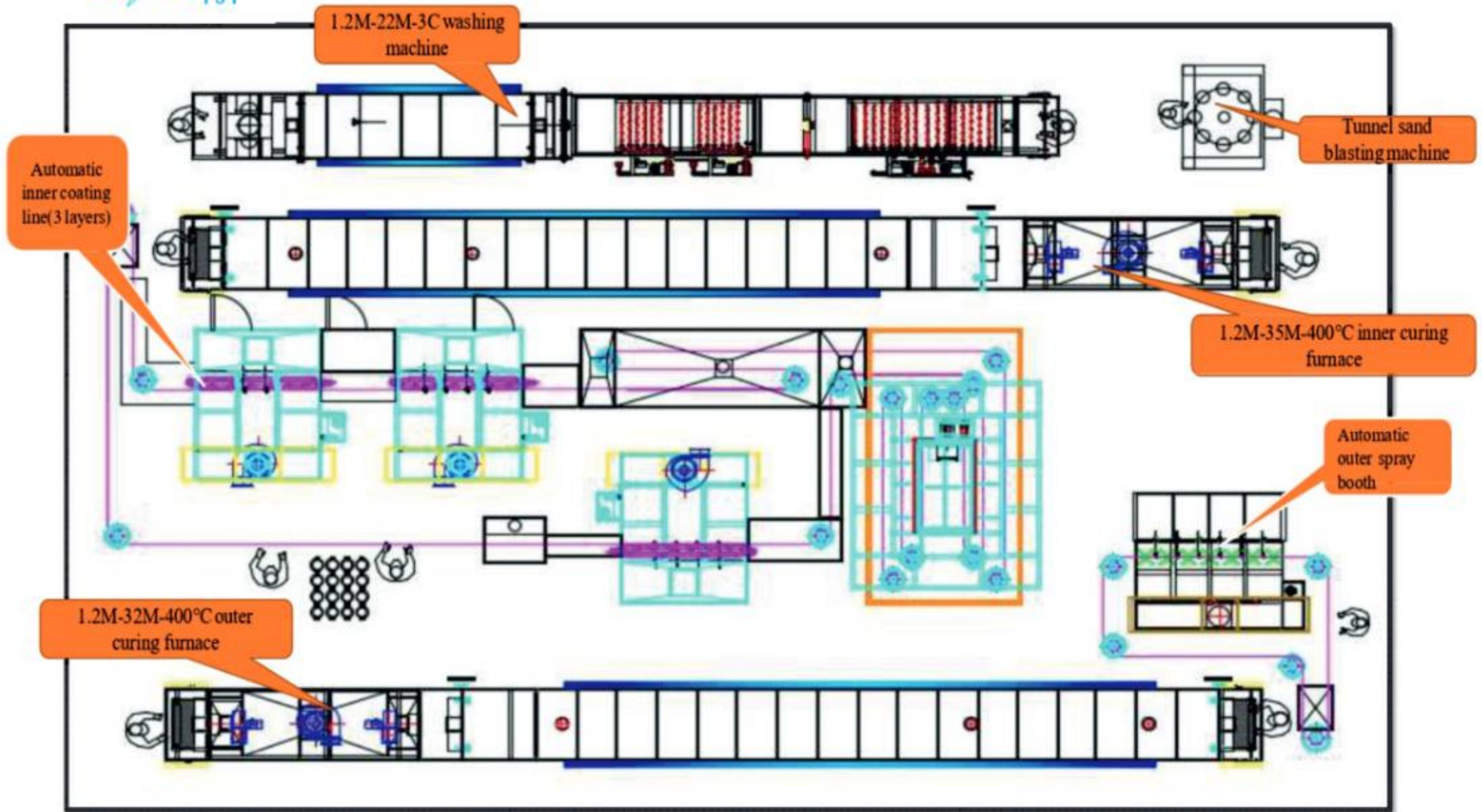




<b>SYN-800#</b> <b>(High configuration 4 layers)</b>	Applicable	
	Output/hour: 800-900PCS	
Configuration	3M Automatic inner spray booth(primer coating) * 1 set 3M Automatic inner spray booth(top coating)* 1 set 3M Automatic inner spray booth(dot coating)* 1 set 3M Automatic outer spray booth* 1 set Automatic spray gun*16 sets Paint supply pumps*4 sets (Or paint pressure tank)	Six 40HQ containers
	35M Inner curing furnace 32M Outer curing furnace *Curing furnace mesh belt width 1.2m, operating speed $\leq 1.2$ m/min, inner and outer coating curing independently	
	Tunnel sandblasting machine*1 set	
Process	Sand blasting→degreasing→transfer workpieces →auto dedusting→automatic inner spraying→surface drying→automatic top coating→dot coating→transfer workpieces to inner curing furnace→cooling, unloading→polishing→automatic outer spraying→transfer workpieces to outer curing furnace→cooling, unloading	



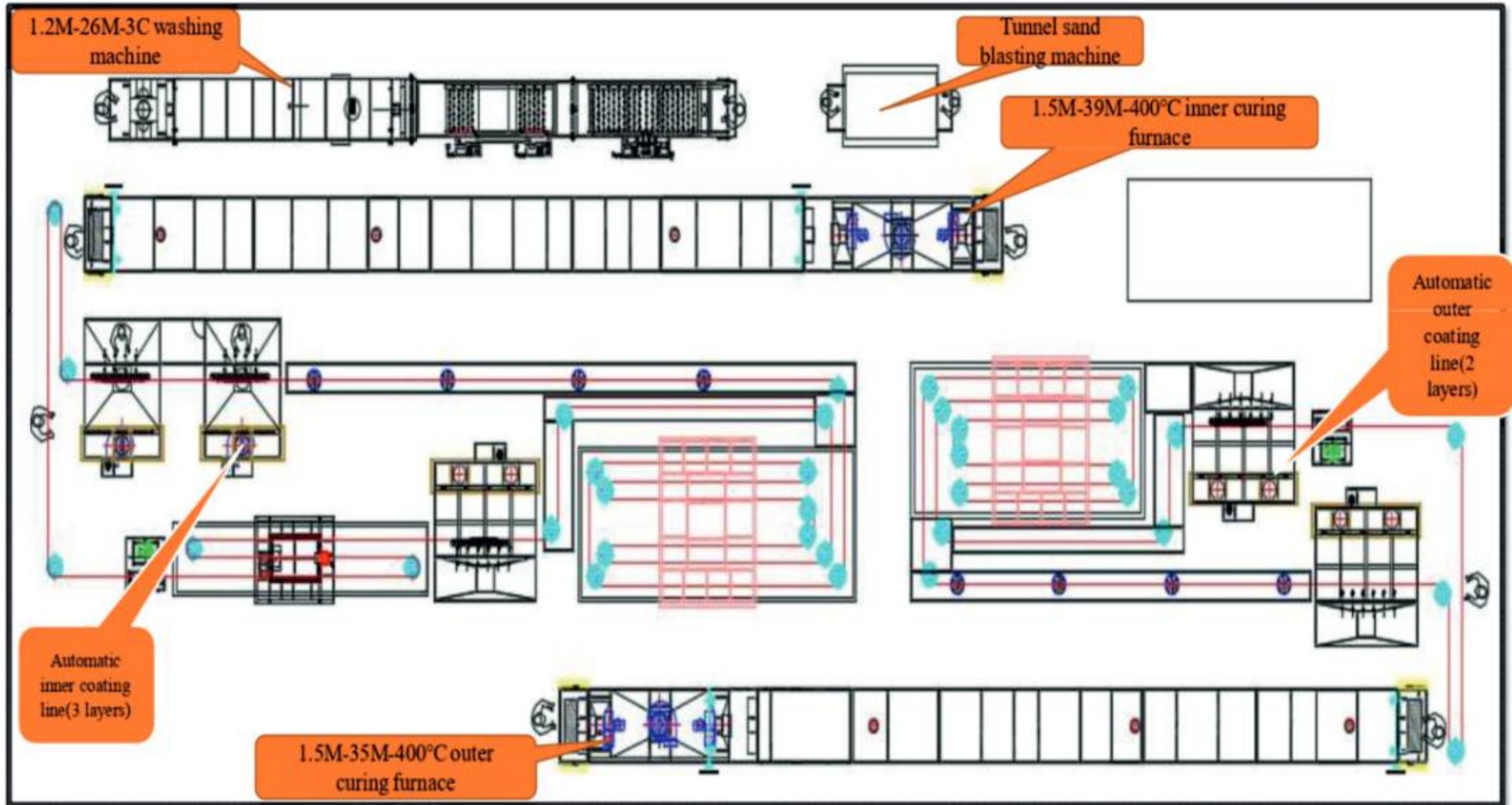
# SYN-800# (High configuration 4 layers) Layout Drawing





<b>SYN-1000#</b> <b>(High configuration 4 layers)</b>	Applicable	
	Output/hour: 1000-1200PCS	
Configuration	3M Automatic inner spray booth(primer coating) * 1 set 3M Automatic inner spray booth(top coating)* 1 set 3M Automatic inner spray booth(dot coating)* 1 set 3M Automatic outer spray booth* 1 set 3M Automatic outer spray booth(dot coating)* 1 set Automatic spray gun*20 sets Paint supply pumps*5 sets (Or paint pressure tank)	
	39M Inner curing furnace 35M Outer curing furnace *Curing furnace meshbelt width 1.5m, operating speed $\leq 1.2$ m/min, inner and outer coating curing independently	
	Tunnel sandblasting machine*1 set	
Six 40HQ containers		
Process	Sand blasting→degreasing→transfer workpieces →dedusting→automatic inner premier oil spraying→dot spraying→surface drying→automatic inner surface oil spraying→dot spraying→transfer workpieces to inner curing furnace→cooling, unloading→polishing→automatic outer premier oil spraying→dot spraying→transfer workpieces to outer curing furnace→cooling, unloading	

# SYN-1000# (High configuration 4 layers) Layout Drawing





# Automatic Cookware Blasting Machine



Indexing machine is an extremely economical machine suited to a wide range of working operations. The machine works on the suction blasting principle. Blast cabinet is fitted with a bearing mounted indexing turntable with number of indexing positions. One indexing satellite stands outside the blast cabinet for job loading and unloading while other satellites rotate with job inside the blast cabinet. Rotary indexing machines are incorporated with a reclaimer that ensure uniform cleaning and finishing each time and in every operation. This is achieved by an automatic abrasive cleaning system built into the reclaimer. The dust and debris are separated and only clean and sized abrasives are carried to blast ensuring a homogeneous finish. Machine comes with both horizontal and vertical reciprocation systems for guns.

How its Works -

- With help of job fixtures on turntable , the job rotating as blast gun clean the surface .
- Only Loading & Unloading of the job is carried out by operator.

## Product Specification

Product Type	Automatic Table Type
Usage/Application	Industrial
Material To Be Blasted	Non-Stick Cookware/ Utensils
Reciprocation	Horizontal and vertical
Brand	Synco
Models	4/5/6/8/10 Satellite
No. of Guns	6/8/10/12/14/16 Guns





## MANUAL COOKWARE BLASTING MACHINE

- Cleaning of Pistons, Cylinder Heads, valves.
- Cleaning of Tyre, Glass, Shoe and other moulds and dies.
- Surface preparation of cookware prior to Teflon coating.
- Deburring and Deflashing of Thermoset Plastic Parts.
- Finishing of Surgical and Medical Instruments.
- Cleaning and stripping of old paint before repainting.
- Ceaning, finishing & surface texturing of Die Cast Aluminium and non-ferrous metal parts.
- Surface texturing of Stainless steel, utensils, Dairy equipments etc.
- Finishing of metal handicrafts.
- Finishing of Sanitary Fittings.
- Glass Etching.
- Deflectors for anti glare finish.



## SYNCO SUPER BLASTER STANDARD MODELS

	SSB-9182	SSB-12090	SSB-150120
Height	775	900	900
Width	910	1200	1500
Depth	820	900	1200
Abrasive Storage Capacity Ltr. (CFT)	28(1.0)	42(1.5)	42(1.5)
Orifice (mm)	*8, 10, 12	8, *10, 12	8, 10, *12
Compressed Air Required (CFM@80 psi)	25	35	70

(\* Nozzle of this size will be supplied unless specified)

## Popular Accessories Available On Request For Increased Convenience And Efficiency

### TURN TABLE

The Turn Table can be fitted inside the cabinet for blasting the job of uniform shape / heavy weight or blasting multiple jobs at a time. Turn Table is available in manual or motorized version with fixed and variable speeds.

### WORK CAR WITH TROLLEY

**MOUNTED TURN TABLE ON TRACK EXTENSION**  
Track extension can be attached with the cabinet if jobs to be placed in cabinet are heavy. The turntable can be dragged outside on track extension and job can be loaded easily using overhead crane Motorized winch can be provided for trolley movement.

### TUMBLE BASKET

Tumble basket is used for batch blasting of small parts like nuts, bolts, screws, rings etc. It can be fitted on side door of the cabinet.

### GUN RECIPROICATION

Gun reciprocation can be provided to achieve automation and uniformity of blast finish.

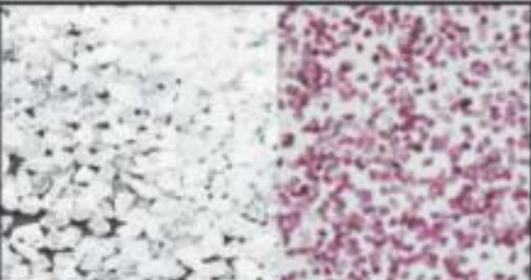


Customized machines with multiple nozzles, customized object handling fully automated with PLC controls can be provided.





## Recommended Blasting Media

	<p>Syncoshot gives more life as compared to grits. It is widely used for Casting sand removal, preparing steel before painting, metal/powder coating, Mould Cleaning, providing deep profiles to metallic components before further treatment.</p>	<p><b>9</b></p>	<p><b>5-7%</b></p>
	<p>Preparing surface before coating, removal of sand from castings, descaling of strips, bars, pipes etc.</p>	<p><b>9</b></p>	<p><b>5-7%</b></p>
	<p>Syncoloxwt / Syncoloxpink is a 99.5% ultra pure grade of blasting media. Syncolox is being more and more preferred for use in critical, high-performance applications particularly where no ferrous contamination of the job is tolerable.</p>	<p><b>9</b></p>	<p><b>5-7%</b></p>