

Automatic & Semi-automatic Emulsion Coating Machine

Umrao Automation Pvt. Ltd. introduces the most efficient double sided Emulsion Coating Machine. Its easy to operate and maintenance free machine and can coat screen size 50" and more with accuracy, since coater is supported with linear bearings it is vibration free and smooth. Coating pressure can be applied individually on both side with the help of pneumatic cylinders which is fitted with the pressure dial indicator. We also have fine pneumatic adjustment for the toggle movements of the coating scoops on both sides. We also provide semi automatic Emulsion Coating machine with best engineering features.

Standard Features

- ♦ Motorized screen frame holder to suit various screen frame sizes. Control through foot pedal.
- ♦ Accurate productivity of coating results for direct coating process wet on wet.
- ♦ Individual controls for coating the mesh from squeegee side, printing side or both sides.
- ♦ Contact pressure of coating troughs on mesh can be adjusted separately for both sides.
- ♦ Easy screen frame clamping device.
- ♦ Optional screen frame clamping device for coating multiple screens at time.
- ♦ AC motor with AC variable frequency drive, which offers precise speed control for coating.
- ♦ Adjustable coating stroke.
- ♦ Man machine interface with two line LCD display with programmable logical controller.
- ♦ Number of coats can be easily programmed through man machine interface on both sides separately.
- ♦ Programmable flow time of emulsion.



Technical Data

	EC 3040	EC 4656	EC 7496	EC 80120
Screen Frame	30" X 40"	46" X 56"	74" X 96"	80" X 120"
Compressed Air	4 to 6 kg/sqcm (7.5 ltr/cycle)	4 to 6 kg/sqcm (7.5 ltr/cycle)	4 to 6 kg/sqcm (7.5 ltr/cycle)	4 to 6 kg/sqcm (9.50 ltr/cycle)
Coat Speed	5 Mtr/min	5 Mtr/min	5 Mtr/min	5 Mtr/min
Power Supply	230 Vac/16 Amp	230 Vac/24 Amp	230 Vac/32 Amp	230 Vac/32 Amp
Overall Dim.	90" X 24" X 80"H	106" X 24" X 96"	124" X 24" X 100"	150" X 24" X 106"

Umrao Automation Pvt. Ltd.

Unit No 3 & 4, Merchant Industrial Estate, Bldg No.4, Golani Naka, Waliv, Vasai(E)-401208, Tel: +91 250 6583351 / +91 250 6052000, Mob: +91 98902 80460 / +91 98202 38497, Email : sales@ultracuring.com, umraoautomation@gmail.com, Web : www.ultracuringsystem.com

Note: Technical Data subject to change due to our continuous product up gradation practice.

Cat.Ref:EP/00/09

METAL HALIDE LAMP VERTICAL EXPOSING MACHINE

Umrao Automation Pvt. Ltd. Vertical type exposing machine is built from square tube pipe frames. This exposing system offers remarkable combination of performance control and safety features engineered to keep the glass surface cool and uniformity in exposure from center to corner of the frame.

Standard Features

- ✦ Oil less vacuum pump 0.5 HP
- ✦ Reliable damper system (DC motor 1/6 HP operator)
- ✦ Special electronic circuit makes machine user friendly
- ✦ Digital pulse counter
- ✦ Imported vacuum (Rubber) blanket for better contact between stencil & film
- ✦ Automatic standby mode facility for power saving. Shutter release system helps screen to expose one after another without switching off the lamp.
- ✦ Metal Halide Lamp
- ✦ Air blower for lamp cooling
- ✦ Cooling system to keep glass surface cool
- ✦ Hour meter for lamp
- ✦ 12mm optically clear glass



Technical Data

Model No.	Maximum Frame Size	Machine Size	Weight (Approx.)	Metal Halide Lamp (Watts)
MHV EX 4858	48" X 58"	68" X 78" X 24"	350 Kg	3 KW
MHV EX 4868	48" X 68"	68" X 88" X 24"	415 Kg	3 KW
MHV EX 5288	52" X 88"	72" X 98" X 30"	650 Kg	5KW
MHV EX 72120	72" X 120"	96" X 144" X 36"	900 Kg	5KW

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Screen Dryer

Umrao Automation Pvt. Ltd. introduces unique horizontal drying system which helps to maintain emulsion thickness equally all over the screen. Drying cabinets mounted in roller bearing for easy emulsion portion. Humidity, air can be vent out with adjustable ventilation provided.

Standard Features

- ♦ Unique design for proper heating and airflow all over the screen
- ♦ Maximum Five/Seven (optional) screen drying cabinets
- ♦ Cross air circulation diagonally insures constant maintained temperature at all corners
- ♦ Three layer Glass wool filled system
- ♦ Temperature Controller
- ♦ Auto timer function to control the drying time
- ♦ Solid Steel Construction ensures no heat loss
- ♦ Five individual compartments for emulsion drying
- ♦ Castor wheels for easy mobility
- ♦ Light box for screen inspection and touch-ups



Technical Data

	SD-3440	SD-3646	SD-4252	SD-4656
Max. Screen Frame Size	34" x 40" x OD	36" x 46" x OD	42" x 52" x OD	46" x 56" x OD
Max. Temperature	0~75° C	0~75° C	0~75° C	0~75° C
Light Box	Yes	Yes	Yes	Yes
Auto Timer Range	0~60° C Min	0~60° C Min	0~60° C Min	0~60° C Min
Power Supply	440 Vac 3 Ph	440 Vac 3 Ph	440 Vac 3 Ph	440 Vac 3 Ph
Power Consumption	3.5 Kw	5 Kw	6.5 Kw	6.5 Kw
Overall Dimensions	50" L x 42" D x 40" H	56" L x 44" D x 40" H	62" L x 50" D x 42" H	66" L x 54" D x 46" H

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SQUEEGEE SHARPENER

The Umrao Automation Pvt. Ltd. **SQUEEGEE SHARPENER** is the first precision, manual squeegee sharpener for squeegees 24" and above up to length 48". This manual, tabletop unit accommodates squeegees with its own squeegee holder.

The sharpener includes one indestructible abrasive sharpening wheel that will sharpen any durometer squeegee. The unit (Optional) also features a dial indicator to gauge the amount of squeegee material removed during each sharpening pass. There is no sharpener that offers such precision at such an economical price.

Standard Features

- ♦ Sharpens all squeegee materials
- ♦ Can accommodate both single and multiple durometer squeegees
- ♦ Uniform grinding pressure and adjustment for material removal
- ♦ Secures squeegee by the blade during sharpening
- ♦ Blade Height Tolerance: +/- 0.006" (0.18 mm) measured from end to end
- ♦ Power Requirement: 115-120V AC, 2Amp (220-230V AC, 1 Amp optional)
- ♦ Electrical Power connection : 220-230V AC, 1 Amp



Technical Data

	USSG-24	USSG-32	USSG-36	USSG-48
Max. SQUEEGEE LENGTH	24"	32"	36"	48"
Motor Wattage	0.76 KW	0.76 KW	1.14 KW	1.14 KW
Supply of Power	220 Volts/1A	220 Volts/1A	440 Volts/1.5A	440 Volts/1.5A
Dimensions (Overall)	1200 (L) X 600 (D) X 445 (D)	1400 (L) X 600 (D) X 445 (D)	1500 (L) X 600 (D) X 445 (D)	1800 (L) X 600 (D) X 445 (D)

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Screen Exposing Machine (Angular Contact Type)

Angular type exposing machine of **Umrao Automation Pvt. Ltd.** is built from square tube pipe frames. This exposing system offers remarkable combination of performance control and safety features. Engineered to keep the glass surface cool and uniformity in exposure from center to corner of the frame. Top Blanket frame movement via gas cylinder assists in easy, smooth & safe operation which is maintenance free. Automatic operations, you just load the frame, press start and walk away system.

Standard Features

- ♦ Oil less vacuum pump 0.5 HP
- ♦ Reliable damper system (DC motor 1/6 HP operator)
- ♦ Special electronic circuit makes machine user friendly
- ♦ Digital pulse counter
- ♦ Imported vacuum (Rubber) blanket for better contact between stencil & film
- ♦ Automatic standby mode facility for power saving. Shutter release system helps screen to expose one after another without switching off the lamp.
- ♦ Metal Halide Lamp
- ♦ Air blower for lamp cooling
- ♦ Cooling system to keep glass surface cool
- ♦ Hour meter for lamp
- ♦ 10 mm optically clear glass
- ♦ Safety switch
- ♦ Screen Frame resting mechanism (Wooden)



Technical Data

	MH 3848 (AC)	MH 4858 (AC)	MH 1856 (AC) Round
Max. Screen Size	38" x 48"	48" x 58"	18" x 56"
Lamp Wattage	1.5 Kw	2.0 Kw	2.0 Kw
Power Supply	420 VAC/10 Amp/3Ph	420 VAC/16 Amp/3Ph	420 VAC/10 Amp/3Ph
Overall Dimensions	70" L x 68" D x 65" H	80" L x 77" D x 72" H	78" L x 42" D x 72" H

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Semi Automatic Balloon Printing Machine

Introduction : We fabricate balloons printing machine. This Balloon Printing Machine can be used to print on balloons. It is a semi automated machine and pedal operated and simple to use. It works with Programed logistical control system.for trouble free operation. Single person can operate the machine and output of the machine is 2000nos/hr. It is a pneumatically operated machine. ie It works with compressed air. Balloon printing is a highly remunerative business as more and more corporates and others prefer advertisement through printed balloons as it is the cheapest and colorful advertisement to expose them to public. The machine comes as a package including

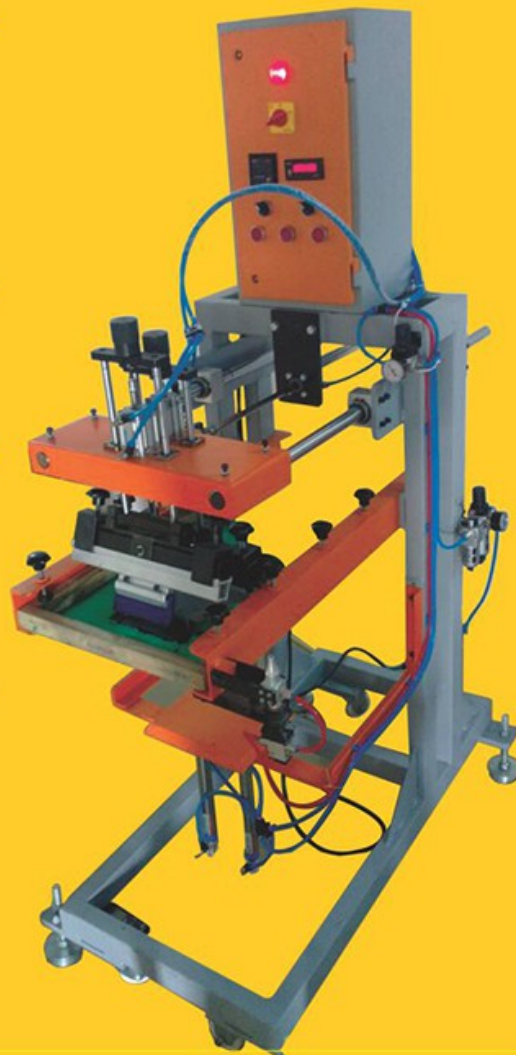
1. Air compressor
2. Balloons blower
3. A wooden screen
4. ink which you like.

Advantages:

- ♦ Lower eletric consumption, high effectivity, and easy operation.
- ♦ Linear movement construction
- ♦ Reliable electrical and pneumatic parts
- ♦ Pedal switch controlling system
- ♦ The squeegee works in two modes - front stop and backstop.

Technical Parameter

- ♦ Max Printsize : 150*150 mm
- ♦ Pallet Size : 350*350 mm
- ♦ Voltage : 220V, 50Hz, 0.75Kw
- ♦ Print Speed : 1800-2000 Pcs/Hour
- ♦ Dimension : 550*800*1000 mm



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Four Pillar (Semiautomatic Screen Printing Machine)

Umrao Automation Pvt. Ltd. introduces the fines and trouble free flatbed Screen Printing Machine. Four Pillar is easy to setup; easy to control, heavy duty and durable construction gives maximum stability at full production speed with top quality prints and with accuracy required for high quality screen printing. Squeegee head on solid steel shafts with linear bearing motion to give accurate and vibration free squeegee movement is designed with outstanding features your benefits.

Applications: Flat surface printing on Ceramic Tiles / Transfers, Printed Circuit Boards, Textile Transfers, Paper, Stickers, Metal Labels, Membrane switch Printing, Commercial screen printing, etc.

Standard Features

- ♦ Adjustable squeegee & flood speed via AC geared motor (pre-lubricated) coupled with AC frequency inverter
- ♦ Infinite variable and independent print and flood speeds
- ♦ Adjustable from 0 to max speed
- ♦ Squeegee carriage on Hard Chrome Plated solid steel shaft with linear bearing motion (IKO Japan)
- ♦ Pneumatically adjustable squeegee & flood pressure, Fine Pressure adjustments with dial indicators
- ♦ Calibrated air pressure air regulator with filters and lubricator
- ♦ Adjustable squeegee angle from 0 to 30°
- ♦ Adjustable Skew angle
- ♦ Aluminum extruded squeegee holder & coater for even pressure
- ♦ Bed movement for registration X, Y, & Rotary (+/-) 10 mm
- ♦ Selectable Print Cycles Flood First & then Print or Print First & then Flood
- ♦ Three operation modes, single cycle, auto cycle with dwell timer and inching in setting mode
- ♦ Adjustable peel off system with variable time ensures good & sharp print results
- ♦ Print cycle counter to count no of impressions / hour
- ♦ Emergency Rod / Stop for safety of operator
- ♦ Castor wheels for easy mobility
- ♦ PLC (Programmed Logic Controller) with man machine interface



Optional Features :

- ♦ Auto take off system
- ♦ With back light table

Technical Data

	FP - 2436	FP - 3040	FP - 4060
Print Area	24" x 36" (610 mm x 915 mm)	30" x 40" (762 mm x 1016 mm)	40" x 60" (1016 mm x 1524 mm)
Screen Frame Size Max. (OD)	42" x 54" (1060 mm x 1370 mm)	48" x 58" (1220 mm x 1470 mm)	58" x 78" (1473mm x 1982 mm)
Screen Frame Size Min. (OD)	26" x 38" (660 mm x 965 mm)	32" x 42" (810 mm x 1070 mm)	42" x 62" (1067 mm x 1575 mm)
Vacuum Bed Size	32" x 44" (813 mm x 1117 mm)	38" x 48" (965 mm x 1219 mm)	48" x 68" (1219 mm x 1727 mm)
Bed Movement	+/- 10 mm	+/- 10 mm	+/- 10 mm
Substrate Thickness (Printable)	10 mm	10 mm	10 mm
Impressions / Hour	840 / Hour	720 / Hour	675 / Hour
Power Supply	230 V AC / 1Ph / 50 Hz	230 V AC / 1Ph / 50 Hz	230 V AC / 1Ph / 50 Hz
Power Consumption	3 HP / 2.3 Kw	3.5 HP / 2.66 Kw	4 HP / 3.04 Kw
Overall dimensions	67" x 50"	71" x 54"	90" x 62"

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IR Curing System



Umrao Automation Pvt. Ltd. Infra-Red Dryer is designed for high speed production of plastisol, water, solvent based inks & two pack inks used in printed nameplate & metal decorating industries. High quality medium wave infrared lamps provide consistent temperature throughout the surface, controlled by PID. Electronic temperature controller with centrally located sensor, which also indicates oven temperature. Powerful vacuum holds down system throughout the oven, which also helps to remove noxious fumes.

General Features

Air Handling

- ♦ Forced airflow accelerates drying / curing
- ♦ High-volume circulation blower reduces energy costs
- ♦ Separate dedicated blowers for circulation & exhaust

Control Center

- ♦ After the dryer has been turned off, the blowers and belt will continue to run for 5 minutes to shut down automatically after cooling of heat chamber
- ♦ Digital keypad with digital display
- ♦ Temperature precisely controlled by PID
- ♦ Air -cooled electrical control cabinet ensures long life of electrical components

Conveyor System

- ♦ Conveyor belt is made of imported antistatic heat-resistant, Teflon-coated fiberglass coating
- ♦ Conveyor driven by a reliable, heavy-duty, variable-speed AC motor with imported variable speed drives & gear box
- ♦ Rubber lining rollers for belt
- ♦ Minimum belt speed : 0.8 mtr per minuts
- ♦ Conveyor speed & IR system are integrated with each other for safety purpose

Technical Data

Model No.	US - IR 20	US - IR 25	US - IR 30	US - IR 40	US - IR 50
Conveyor Width	20"	25"	30"	40"	50"
Curing Speed	8-12 mrt / min	8-12 mrt / min	8-12 mrt / min	8-12 mrt / min	8-12 mrt / min
Cooling System	Twin Blower Type (Independent blower for suction & delivery)	Twin Blower Type (Independent blower for suction & delivery)	Twin Blower Type (Independent blower for suction & delivery)	Twin Blower Type (Independent blower for suction & delivery)	Twin Blower Type (Independent blower for suction & delivery)
Electric Power	9 KW	10.5 KW	12 KW	14.5 KW	16 KW

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Metal Halide Lamp Exposing Machine



Angular type exposing machine of **Umrao Automation Pvt. Ltd.** is built from square tube pipe frames. This exposing system offers remarkable combination of performance control and safety features. Engineered to keep the glass surface cool and uniformity in exposure from center to corner of the frame. Top Blanket frame movement via gas cylinder assists in easy, smooth & safe operation which is maintenance free. Automatic operations, you just load the frame, press start and walk away system.

Standard Features

- ♦ Oil less vacuum pump 0.5 HP
- ♦ Reliable damper system (DC motor 1/6 HP operator)
- ♦ Special electronic circuit makes machine user friendly
- ♦ Digital pulse counter
- ♦ Imported vacuum (Rubber) blanket for better contact between stencil & film
- ♦ Automatic standby mode facility for power saving. Shutter release system helps screen to expose one after another without switching off the lamp.
- ♦ Metal Halide Lamp
- ♦ Air blower for lamp cooling
- ♦ Cooling system to keep glass surface cool
- ♦ Hour meter for lamp
- ♦ 10 mm optically clear glass
- ♦ Safety switch

Technical Data

Model No.	Maximum Frame Size	Machine Size	Weight (Approx.)	Metal Halide Lamp (Watts)
Auto Expose 1212	12" x 12"	26" (W) x 32" (L) x 40" (H)	100 Kg	1.0 Kw 440 V AC
Auto Expose 2025	20" x 25"	32" (W) x 39" (L) x 43" (H)	120 Kg	1.5 Kw 230 V AC
Auto Expose 3848	38" x 48"	52" (W) x 60" (L) x 43" (H)	135 Kg	2.0 Kw 440 V AC
Auto Expose 4040	40" x 40"	48" (W) x 48" (L) x 43" (H)	135 Kg	2.0 Kw 440 V AC
Auto Expose 4858	48" x 58"	62" (W) x 70" (L) x 43" (H)	150 Kg	3.0 Kw 440 V AC
Auto Expose 5468	54" x 68"	74" (W) x 88" (L) x 43" (H)	165 Kg	5.0 Kw 440 V AC

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Roll To Roll Screen Printing Machine

Umrao Automation Pvt. Ltd. offering roll to roll printing machines that are fabricated in compliance with international quality standards using latest technology.

Applications: These machines are suitable for printing on any roll form such as PVC, soft plastic circuit, heat transfer paper and polyester. Branded parts and servo motor are used to ensure smooth and stable run and to achieve maximum printing accuracy. We can also provide customization as required by the client. Controlled by advanced computer system; driven by Servo motor to achieve maximum accuracy of printing. Brand-named pneumatic parts are used. Precise shafts and bearings are placed in active parts of the machine to ensure smooth and stable runs. Programmable PLC system is built into the machine so that printing programs can be changed easily.

Standard Features

- Adjustable squeegee & flood speed via AC geared motor (pre-lubricated) coupled with AC frequency inverter.
- Infinite variable and independent print and flood speeds adjustable from 0 to max. speed
- Squeegee carriage on Hard Chrome Plated Solid Steel Shaft with linear bearing motion (IKO) Japan.
- Pneumatically adjustable squeegee & flood pressure, fine pressure adjustments with dial indicators.
- Calibrated air pressure air regulator with filters and lubricators.
- Adjustable squeegee angle from 0 to 30.
- Adjustable Skew angle.
- Aluminium extruded squeegee Holder & Coater for even pressure.
- Selectable print cycles flood first & then print or Print first & then flood
- Three operating modes, single cycle, auto cycle with dwell timer and inching in setting mode.
- Print cycle counter to count no of impressions /hour.
- UV system is with 300 watt/inch capacity. Air cooling System integrated with close loop feedback.
- Hole punch pilot guide system for accurate repeat pass for multiple times.
- Winder, Un winder units are specially designed for intermittent web feeding.



Technical Data

MODEL	PRINT AREA	Curing system	No. of Printing Stations
RTR 1012 1IR / 2IR	10" X 12"	IR	1 Each (3 KW) for Printing Station
RTR 1215 1IR / 2IR	12" X 15"	IR	1 Each (3 KW) for Printing Station
RTR 1520 1IR / 2IR	15" X 20"	IR	1 Each (4.5 KW) for Printing Station
RTR 1215 1UV / 2UV / 3UV	12" X 15"	UV	12" (3 KW) Curing system For each System
RTR 1520 1UV / 2UV / 3UV	15" X 20"	UV	16" (4.8 KW) Curing system For each System

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UV Curing Machine

Ultra Violet Curing Machine is built with our 15 years of experience in UV Curing technology. Engineered for high speed UV curing of Vinyl, Polyesters, Metals, Papers and other heat sensitive substrates. The dual blower cooling system minimizes heat transmission to stock. Our ozone / hot air removal system exhausts ozone and hot air from the heat source and helps to keep cool printing shop.

Standard Features

- ♦ Compact and designed machine fabrication.
- ♦ Heavy duty castor wheels for easy mobility with foundation bolts for leveling
- ♦ Medium pressure mercury vapour UV lamps 300 watt/inch.
- ♦ Individual lamp control with separate heavy duty transformer and capacitor bank
- ♦ Anti-Static PTFE Teflon coated fiber glass conveyor belt
- ♦ Conveyor driven by pre lubricated AC geared motor (Imported)
- ♦ AC frequency inverter for infinite speed control
- ♦ Digital belt speed indicator in M/Min
- ♦ Power switching through Siemens made capacitor banks
- ♦ Lamp Reflector hinged for safety and easy cleaning
- ♦ Digital Hour Meter for Lamp life record
- ♦ Individual lamp ampere meter
- ♦ Safety switched for reflectors
- ♦ Specially designed elliptical UV irradiators
- ♦ Silver coated high grade reflectors
- ♦ Teflon coated wiring form control panel to lamp
- ♦ Heavy duty switch-gears designed using constant wattage technology
- ♦ Lamps are protected with miniature circuit breakers for over load Protection
- ♦ Ampere meter (for both the lamps)
- ♦ Special extended conveyors as per requirements and applications
- ♦ Special conveyor heights as per requirements and applications

Optional

- ♦ Two Lamps System available



Technical Data

Model	US - UV 25300	US - UV 32300	US - UV 42300	US - UV 52300
UV Curing Arc Length	25"	32"	42"	52"
Max. Conveyor Width	27"	34"	44"	54"
Lamp Intensity	300W / Inch (7.5KW)	300 Watt/Inch (9.6 KW)	300 Watt/Inch (12.6 KW)	300 Watt/Inch (15.6 KW)
Power Supply	430 VAC, 3 Ph, 50 Hz	430 VAC, 3 Ph, 50 Hz	430 VAC, 3 Ph, 50 Hz	430 VAC, 3 Ph, 50 Hz
Power Consumption	9.5 KW (13 HP)	12.6 Kw (16 HP)	15.6 Kw (21 HP)	18.6 Kw (25 HP)
Overall Sizes (Std)	102" L x 45" W x 48" H	102" L x 55" W x 48" H	140" L x 60" W x 48" H	216" L x 70" W x 48" H

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UV/IR Combo Curing System

Umrao Automation Pvt. Ltd. combo dryers are very useful for small print runs on hand tables to high speed production presses. Fast drying possible through unique specially designed air handling system. A separate duct is provided to remove solvent laden air. The opening duct is easily adjustable depending upon the solvent content of the ink being dried. Air is forced at high pressure through heating elements into the drying hood and then through air curtains in hood. The twin blower cooling system is designed to take only fresh air for optimum drying efficiency.

Features

- ♦ Curing UV intensity selectable 300 Watt/Inch or 200 Watt/Inch
- ♦ Conveyor belt speed adjustable
- ♦ Independent air circulation for irradiator cooling & hold down cum hot air exhaust
- ♦ Unique Elliptical design of irradiator / reflector
- ♦ Silver Coated Reflector for Long Life and better reflection
- ♦ Efficient air cooling system for long life of curing tube.

General Features

Air Handling

- ♦ Forced airflow accelerates drying / curing
- ♦ High-volume circulation blower reduces energy costs
- ♦ Separate dedicated blowers for circulation & exhaust

Control Center

- ♦ After the dryer has been turned off, the blowers and belt will continue to run for 5 minutes to shut down automatically after cooling of heat chamber
- ♦ Air-cooled electrical control cabinet ensures long life of electrical components

Conveyor System

- ♦ Conveyor belt is made of imported antistatic heat-resistant, Teflon-coated fiberglass coating
- ♦ Conveyor driven by a reliable, heavy-duty, variable-speed DC motor with imported variable speed drives & gear-box
- ♦ Rubber lining rollers for belt
- ♦ Minimum belt speed : 0.8 mtr per minutes
- ♦ Maximum belt speed : 45 mtr per minutes



Technical Data

Model	12"	24"	32"
Conveyor width	14"	26"	34"
Curing Speed for UV	8 to 30 meter / min	8 to 40 meter / min	8 to 30 meter / min
Curing Speed for IR	8 to 10 meter / min	8 to 22 meter / min	8 to 10 meter / min
Curing UV Intensity	300 watts / inch	300 watts / inch	300 watts / inch
Curing IR Intensity	1600 W x 6 heater/lamps	2500 W x 6 heater/lamps	3000 W x 6 heater/lamps
Switching Control for UV	50% & 100%	50% & 100%	50% & 100%
Switching Control for IR	Intensity Controller	Intensity Controller	Intensity Controller
Cooling System	Twin Blower Type	Twin Blower Type	Twin Blower Type
Electrical Power (Total)	12.0 KW 440 V AC	28.0 KW 440 V AC	32.0 KW 440 V AC
Machine Size	21" W x 5 feet L	42" W x 10 feet L	51" W x 13 feet L

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Mob: +91 98902 80460 / +91 98202 38497, Email : sales.umraov@gmail.com, umraoautomation@gmail.com, Web : www.umraov.com

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Two Pillar (Semiautomatic Screen Printing Machine)

Umrao Automation Pvt. Ltd. introduces the finest and most flexible range of trouble-free Semiautomatic flatbed Screen Printing Machine. The machine is easy to setup; easy to control gives maximum stability at full production speed with top quality prints and with accuracy required for high quality screen printing. Squeegee head on hardened steel shafts with linear bearing motion to give accurate and vibration-free squeegee movement. Pneumatic measurable squeegee pressure adjustment.

Applications: Flat surface printing on Ceramic Tiles Transfers, Printed Circuit Boards, Textile Transfers, Paper, Stickers, Metal Labels, Membrane switch Printing, Commercial screen printing, etc.



Standard Features

- ♦ Adjustable squeegee & flood speed via AC geared motor (pre-lubricated) coupled with AC frequency inverter
- ♦ Infinite variable and independent print and flood speeds adjustable from 0 to max speed
- ♦ Squeegee carriage on Hard Chrome Plated solid steel shaft with linear bearing motion (IKO Japan)
- ♦ Pneumatically adjustable squeegee & flood pressure, Fine Pressure adjustments with dial indicators
- ♦ Adjustable squeegee angle from 0 to 30°
- ♦ Aluminum extruded squeegee holder & coater for even pressure
- ♦ Bed movement for registration X, Y, & Rotary (+/-) 10 mm
- ♦ Selectable Print Cycles Flood First & then Print or Print First & then Flood
- ♦ Emergency Rod / Stop for safety of operator
- ♦ Castor wheels for easy mobility
- ♦ Printing operation by foot switch or automatic cycle with dwell time 0~10 sec
- ♦ PLC (Programmed Logic Controller) with man machine interface

Optional Features

- ♦ Auto take off system

Technical Data

	Verti Print – 1520	Verti Print – 1824	Verti Print – 2030
Print Area	15" x 20" (381 mm x 508 mm)	18" x 24" (457 mm x 610 mm)	20" x 30" (508 mm x 762 mm)
Screen Frame Size Max. (OD)	24" x 36" (610 mm x 914 mm)	29" x 39" (736 mm x 990 mm)	32" x 44" (813 mm x 1118 mm)
Screen Frame Size Min. (OD)	18" x 24" (457 mm x 610 mm)	22" x 26" (558 mm x 660 mm)	26" x 30" (660 mm x 762 mm)
Vacuum Bed Size	23" x 28" (584 mm x 711 mm)	26" x 32" (660 mm x 812 mm)	28" x 38" (711 mm x 965 mm)
Bed Movement	+/- 10 mm	+/- 10 mm	+/- 10 mm
Substrate Thickness (Printable)	10 mm	10 mm	10 mm
Impressions / Hour	900 / Hour	900 / Hour	840 / Hour
Power Supply	230 V AC / 1Ph / 50 Hz	230 V AC / 1Ph / 50 Hz	230 V AC / 1Ph / 50 Hz
Power Consumption	2 HP / 2.3 Kw	3 HP / 2.3 Kw	3 HP / 2.3 Kw
Overall dimensions	32" (W) x 50" (L) x 68" (H)	37" (W) x 55" (L) x 68" (H)	39" (W) x 66" (L) x 68" (H)

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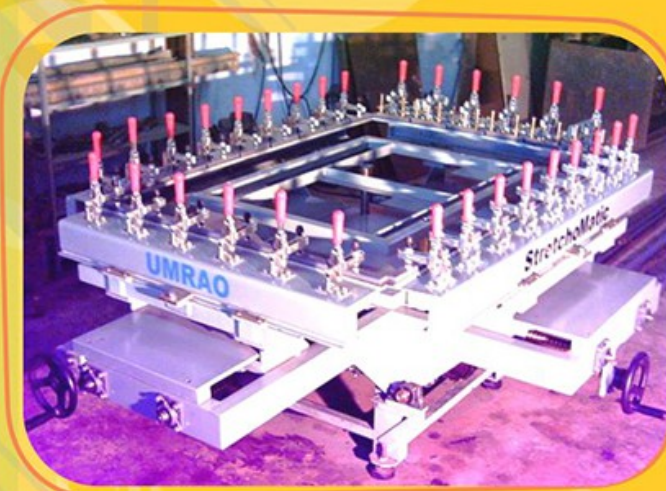
Mechanical Fabric Stretching Machine



Umrao Automation Pvt. Ltd offer mechanical / Electro-mechanical fabric stretching machine that provides easy and powerful Stretching of fabric. Fabricated using quality tested raw material, the stretching clamp is composed of fabric gripping with double groove rubber lining jaw of length 250 mm. It had adjustable weft and raft sides. These machines available with electrical Motorized controls enable up to stretching 55 N.

Standard Features

- ♦ Simultaneous stretching of fabric in four directions
- ♦ Consistent stretching results for years
- ♦ No electricity used, thus low cost of production (In manual machines)
- ♦ Low maintenance
- ♦ Multiple frames possible
- ♦ Facility for Frame stretching in angular for CD printing is available
- ♦ Designed to meet tough production requirements
- ♦ Specially designed toggle clasp and double V-groove for easy and powerful clamping of fabric
- ♦ Non-slipping silicone rubber grippers used



Technical Data

Model	Max. Screen Frame	Machine Size	Weight (Approx.)
Strechomatic 4060	40" x 60"	66" W x 90" L x 35" H	550 KG
Strechomatic 6080	60" x 80"	90" W x 110" L x 35" H	850 KG
Strechomatic 80130	80" x 130"	106" W x 160" L x 35" H	1500 KG

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Pneumatic Fabric Stretching Clamps

Umrao Automation Pvt. Ltd Pneumatic Fabric Stretching System is designed to meet high end fabric tension requirements in screen printing industry. ST 200 / ST 250 are two models available. We offer pneumatic fabric stretching clamp that provides easy and powerful clamping of fabric. Fabricated using quality tested raw material, the stretching clamp is composed of fabric gripping with double groove rubber lining jaw of length 250 mm. It had adjustable frame leveling screw for individual clamp and also has the feasibility to arrange multiple clamps of any size of frame.

Standard Features

- ♦ Pneumatic cylinder of 40 mm bore dia. With 100 mm stroke length
- ♦ Stretching capacity up to 42 N possible
- ♦ Screen fabric holder (Jaws) with silicone rubber holders
- ♦ Specially designed extruded wear-resistant rubber to prevent fabric slippage
- ♦ Available in 8" & 10" jaw width to suit various frame size
- ♦ Adjustable frame leveling screw for individual clamp



Technical Data

Model	ST 200	ST 250
Clamping Jaw with	200 mm	250 mm
Stroke	100 mm	100 mm
Air Pressure	Max. 10 Kg / Sq. Cm.	Max. 10 Kg / Sq. Cm.
Length of Unit	500 mm	500 mm

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UV Curing Machine

Ultra Violet Curing Machine is built with our 15 years of experience in UV Curing technology. Engineered for high speed UV curing of Vinyl, Polyesters, Metals, Papers and other heat sensitive substrates. The dual blower cooling system minimizes heat transmission to stock. Our ozone / hot air removal system exhausts ozone and hot air from the heat source and helps to keep cool printing shop.

Standard Features

- ♦ Compact and designed machine fabrication.
- ♦ Heavy duty castor wheels for easy mobility with foundation bolts for leveling
- ♦ Medium pressure mercury vapour UV lamps 400 watt/inch can also be run at 250 watts/inch for low production speed if required.
- ♦ Individual lamp control with separate heavy duty transformer and capacitor bank
- ♦ Anti-Static PTFE Teflon coated fiber glass conveyor belt
- ♦ Conveyor driven by pre lubricated AC geared motor (Imported)
- ♦ AC frequency inverter for infinite speed control
- ♦ Digital belt speed indicator in M/Min
- ♦ Power switching through Siemens made capacitor banks
- ♦ Lamp Reflector hinged for safety and easy cleaning
- ♦ Digital Hour Meter for Lamp life record
- ♦ Individual lamp ampere meter
- ♦ Safety switched for reflectors
- ♦ Specially designed elliptical UV irradiators
- ♦ Silver coated high grade reflectors
- ♦ Teflon coated wiring form control panel to lamp
- ♦ Heavy duty switch-gears designed using constant wattage technology
- ♦ Lamps are protected with miniature circuit breakers for over load
- ♦ Protection
- ♦ Ampere meter (for both the lamps)
- ♦ Special extended conveyors as per requirements and applications
- ♦ Special conveyor heights as per requirements and applications
- ♦ Higher intensity up to 600 Watts/Inch

Optional

- ♦ Intensity of 300 Watts/Inch available
- ♦ Two Lamps System available



Technical Data

Model	US – UV 25400	US – UV 32400	US – UV 42400	US – UV 52400
UV Curing Arc Length	25"	32"	42"	52"
Max. Conveyor Width	27"	34"	44"	54"
Lamp Intensity	400 Watt/Inch (10.0 KW)	400 Watt/Inch (12.8 KW)	400 Watt/Inch (16.8 KW)	400 Watt/Inch (20.8 KW)
Power Supply	430 VAC, 3 Ph, 50 Hz	430 VAC, 3 Ph, 50 Hz	430 VAC, 3 Ph, 50 Hz	430 VAC, 3 Ph, 50 Hz
Power Consumption	12.5 Kw (16.5 HP)	15.3 Kw (20.2 HP)	19 Kw (25 HP)	23 Kw (30 HP)
Overall Sizes (Std)	102" L x 45" W x 48" H	102" L x 55" W x 48" H	140" L x 60" W x 48" H	216" L x 70" W x 48" H

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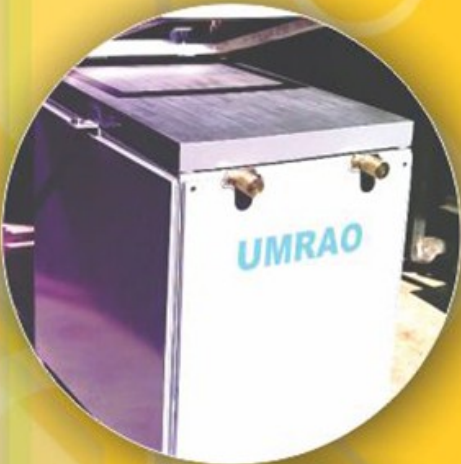
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Vacuum Printing Table

Umrao Automation Pvt. Ltd. innovative air flow vacuum hold-down and flotation systems for flat or 3D substrates, components and parts is fitted on these vacuum printing tables. This unique system can be incorporated blowback of flotation mechanism on request (Optional). As a result, friction and static are reduced. This also minimizes scratching the part as it is removed from the vacuum system.

Very rigid and compact design. Useful to entrepreneurs, for sample printings, short lot productions, proof printings.



General Features

- ♦ Flat perforated aluminum bed for quality printing
- ♦ Strong vacuum provides firm grip on printing material
- ♦ Frame with flexing clamps height adjustment
- ♦ Micro registration bed movement in X, Y-axis (+/- 10 mm)
- ♦ Leak proof valve for faster production
- ♦ Vibration free blower motor design
- ♦ Up-front vacuum control
- ♦ Aluminum, Warp resistant, Rust resistant vacuum table provides a completely flat surface for fine quality hand printing

Advantages

- ♦ Faster make ready
- ♦ Improved print quality
- ♦ Easy mobility

Optional

- ♦ Up front vacuum control with blowback system



Technical Data

Model	Max Print area	Max frame size	Machine size
USVT - 1520	15" x 20"	21" x 26"	32" L x 26" W x 32" H
USVT - 1824	18" x 24"	24" x 30"	36" L x 26" W x 32" H
USVT - 2436	24" x 36"	30" x 42"	44" L x 32" W x 32" H
USVT - 3040	30" x 40"	36" x 46"	48" L x 38" W x 32" H

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Washing Tank with Back Light



Screen Plays an important role in screen printing technology. Improper washing system and inadequate light causes higher percentage of rejection of screens. Considering the above factors in mind **Umrao Automation Pvt. Ltd** Introduces Screen Washing Tank with Back Light system. The complete body of the tank is made of stainless steel (SS-304) to avoid corrosion. Galvanized bodied economical models and also available. Yellow back-light prevents pre exposure of the stencil while washing the screen and eliminates the chances of ghost image been left due to insufficient light.

Standard Features

- Stainless steel (SS 304) construction helps to work with all kinds of chemical generally used in screen reclaiming and avoids corrosion.
- Yellow back-light avoids pre exposure while washing the screen
- Good drainage system ensures no water and any residues left in the tank
- Recycling washing liquid tank (Optional)

Technical Data

Model No. of Stainless Steel Body	WT - 3440	WT - 3646 S	WT - 4252 S	WT - 4656 S
Model No. of Galvanized Body	WT - 3440 G	WT - 3646 G	WT - 4252 G	WT - 4656 G
Model No. of Poly Propylene Body	WT - 3440 PP	WT - 3646 PP	WT - 4252 PP	WT - 4656 PP
Max. Screen Frame Size	34" x 40" OD	36" x 46" OD	42" x 52" OD	46" x 56" OD
Power Supply	230 Vac 1 Ph	230 Vac 1 Ph	230 Vac 1 Ph	230 Vac 1 Ph
Power consumption	0.37 Kw	0.37 Kw	0.37 Kw	0.5 Kw
Overall Dimensions	64" L x 30" D x 65" H	70" L x 30" D x 65" H	76" L x 30" D x 72" H	80" L x 30" D x 74" H

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