

Screen Printing Supplies



All frames are crafted from high-hardness aluminum alloy T6063, processed through automatic laser welders in conjunction with manual TIG welders. The surface of welding corners are smooth, with secure welding at internal corners, and the long sides exhibit less expansion and contraction.

All screens are made through advanced large-scale electric mechanical stretching machines and using glue from KIWO (in Germany) or SAATI (in Italy).

- Uniform wall thickness for maximum rigidity and bow resistant
- Welded corner joints that are ground smooth for flat surface
- Deep ground or sandblasted adhesive surface for good mesh, glue and frame adhesion
- Stretch multiple screens simultaneously, ensuring uniform tension



Alum Frame



PET Mesh



PU Squeegee



Alum Handle



Emulsion Trough



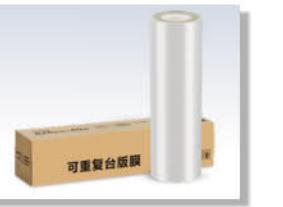
Digital Tension Gauge



Inkjet/Laser Film

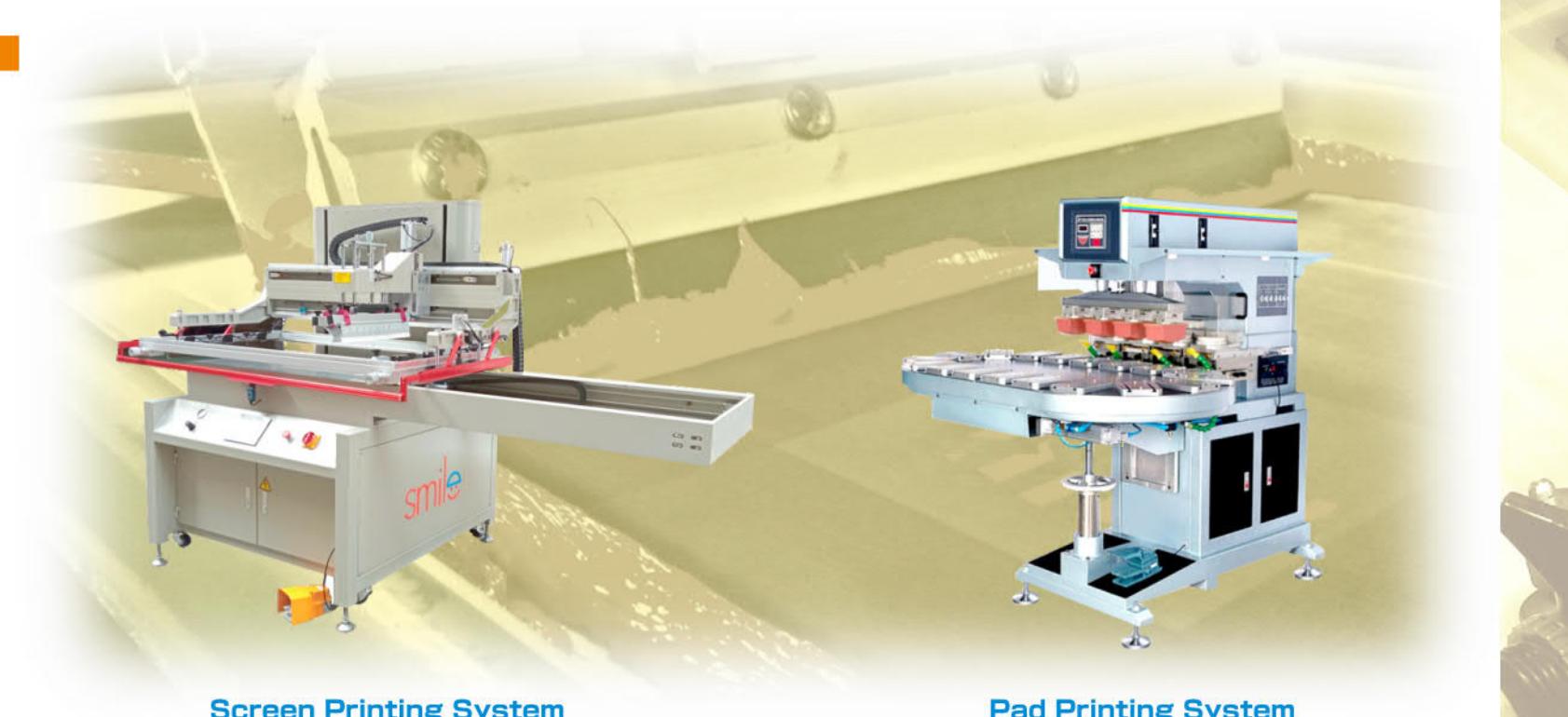


DTF Roll



Reusable Platen Tape

exp@padeen.cn / WhatsApp: +8613507313600



Screen Printing System



Pad Printing System



Digital Ctrl. Squeegee Grinder



IR Drying Tunnel



Screen Printing Cart



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**FOCUS ON SCREEN-MAKING EQUIPMENT
MANUFACTURING**

smile
printing system innovation

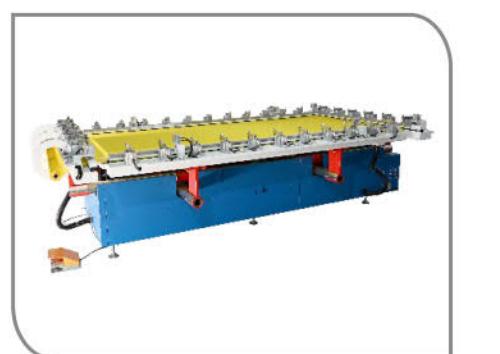
Screen-Making System



LASER DTS System

This LASER DTS (direct-to-screen) system is the latest product developed, which is a laser direct imaging device based on a Digital Micro-mirror Device (DMD). It is primarily used for making various screen printing stencils. During the pattern formation process, graphics are converted into machine data by a computer and transmitted to the DMD, which then directly projects the graphics onto the photosensitive material (emulsion) to complete exposure.

Descriptions	Parameters
Max Screen Size	1200 x 1800 mm
Max Exposure Size	1100 x 1300 mm
Frame Thickness	20-40 mm
Cooling Method	by water
Light Source Power	15-30 watt
Uniformity of Light Spot	≤ 3%
DOF of Lens	±330 um
Magnification of Lens	1.9X/ 2.052X
Process Line Width	40 um
Imaging Speed	150 s/m ²
Line Width Uniformity	± 10%
Imaging Size Error	within 1 meter (50 um) within 2 meters (100 um)
Repeat Accuracy	± 10um
Number of Grid Lines	133 LPI
Emulsion Thickness	solvent-based: 200 μm water-based: 600 umm
Input File Format	Gerber274X TIFF
Indoor Lighting	yellow light
Power Supply	220V/ 50HZ/ 4.0 Kw
Air Supply	1.0 Mpa



Mechanical Screen Stretching Machine

This high-precision mechanical screen stretching machine perfectly combines the application of pneumatics and electrics in equipment, and is mainly used for the production of high-precision and high-tension screens in screen printing fields such as solar photovoltaics, electronic circuit boards, liquid crystal touch screens printing and dyeing textile printing, and glass.

The available mesh includes polyester (PET), nylon and stainless steel mesh.

- Max Tension: 50 N/cm
- Difference of Tension: ± 1 N/cm

General Model:

- SMS-1628AS (1600 x 2800 mm)
- SMS-1640AS (1600 x 4000 mm)
- SMS-2040AS (2000 x 4000 mm)
- SMS-2640AS (2600 x 4000 mm)
- SMS-2660AS (2600 x 6000 mm)

Screen-Making System

Automatic Screen Coating Machine

This automatic screen coating machine is suitable for large-size and high-precision photosensitive (emulsions) coating on screens.

- The entire machine adopts a combination of touch screen and pedal control, enabling coating in fully automatic mode
- Any size of screens within the design range can be coated
- The action of clamping/releasing the frame is controlled by a pedal and executed by pneumatic clamps allowing the operator to conveniently catch the screens by hands
- The coating thickness can be controlled by setting the coating pressure and the number of coating times
- It is optional to apply coating separately on one side or both sides simultaneously, and the number of coating can be independently adjusted for both the front and backside
- It is possible to coat 2 or 3 screens simultaneously (customized model)
- Imported brand electric and pneumatic components are used

General Model:

- SMC-1014 (1000 x 1400 mm)
- SMC-1212 (1200 x 1200 mm)
- SMC-1525 (1500 x 2500 mm)
- SMC-2030 (2000 x 3000 mm)



Screen-Making System



Manual Screen Stretching Machine

- Mainly suitable for stretching screens with a small quantity and small size
- The stretching range of the machine can be manually and freely adjusted
- It can stretch 4 sides separately
- With sliding type mesh clamps
- Aluminum frames are lifting by pneumatic cylinders

General Model:

- SMS-1115 (1100 x 1500 mm)
- SMS-1515 (1500 x 1500 mm)
- SMS-1520 (1500 x 2000 mm)
- SMS-2025 (2000 x 2500 mm)



Screen Exposing Machine

- Suitable for screen exposure of high-precision lines, dots, patterns, etc.
- The processes of vacuum, exposure and releasing vacuum are automatically completed
- Touch screen control, with 5 sets of memory functions
- It's with Chinese made metal halogen lamps and Korean UV lamps are optional
- Oil-free, silent vacuum air pump
- 1.8mm thick UV-resistant rubber

- General Model:
- SME-9012A (900 x 1200 mm)
 - SME-1212A (1200 x 1200 mm)
 - SME-1215A (1200 x 1500 mm)
 - SME-1518A (1500 x 1800 mm)



Automatic Screen Washing Machine

The automatic screen washing machine is suitable for cleaning photosensitive (emulsions) or inks on screens

- All-stainless-steel body: wear-resistant, corrosion-resistant, and suitable for acidic, alkaline and other cleaning solutions
- Fully pneumatic operation, no electricity required, no safety hazards such as fires
- The cleaning pressure can be independently adjusted, suitable for screen plates of any materials
- The unique S-shaped exhaust device design results in lower cleaning chemical liquid consumption
- Utilizing a precision six-stage filtration system ranging from 100um to 10um, with solvent recycling

Washing Process:

Cleaning starts – Air pump pressurization – 10um filter – Nozzle spraying – Rinse the screen – Recovery filtration – Degreasing liquid tank – Rinse water filling – Rinse starts – Air pump pressurization – Nozzle spraying – Rinse the screen – Dry the screen.

General Model:

- SMW-1212AS (1200 x 1200 mm)



Screen Drying Cabinet

- The outer body and inner tank are made of stainless steel
- Can dry 10 screens simultaneously
- With stainless steel heating tubes, equipped with P.I.D. thermostat protection device, create a long service life
- The bottom adopts a roller design, making it easy to place screens
- The sliding door made of aluminum alloy and tempered glass is convenient for observation

General Model:

- SMD-1010S (1000 x 1000 mm, 9 Kw)
- SMD-1212S (1200 x 1200 mm, 9 Kw)

Manual Screen Washing Machine

- Suitable for the cleaning and development of screens
- It is made of entirely of stainless steel materials
- Equipped with a high-pressure water pump
- Equipped with lights on the back

- General Model:
- SMW-6080 (600 x 800 mm)
 - SMW-8010 (800 x 1000 mm)
 - SMW-1212 (1200 x 1200 mm)
 - SMW-1215 (1200 x 1500 mm)