

Sakurai

Sakurai, a pioneer in the manufacture and sale of cylinder screen printing presses, to the new dimension



This photo is demonstrating the line of MSDR-30 with 30VTDRY

Direct Servo Drive Roll to Roll Cylinder Screen Press

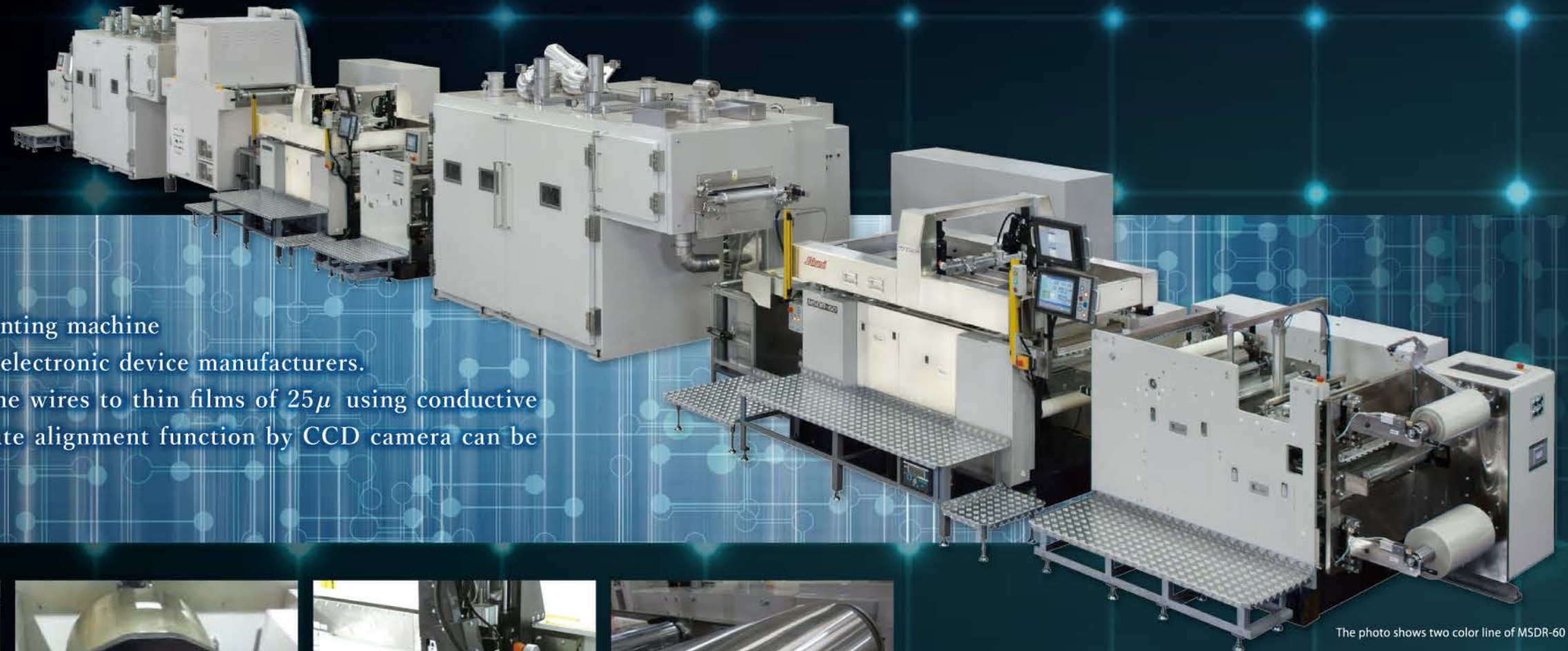
MSDR SERIES

Web width 150~300mm **MSDR-30**

Web width 300~600mm **MSDR-60**

Printing device suitable for advanced industrial printing such as electronics industry

MSDR makes it possible for 25 μ m of thickness thin film printing with automatic mode which was considered to be impossible to manage



Roll to Roll cylinder type screen printing machine of which already installed by major electronic device manufacturers. It is possible to accurately apply fine wires to thin films of 25 μ using conductive paste or functional ink, and accurate alignment function by CCD camera can be applied in various fields

The photo shows two color line of MSDR-60



Screen frame drive

Using the linear servo motor, directly drive the master frame back and forth. High precision drive control is achieved by not using gears and belts.



Vacuum Cylinder drive

Vacuum cylinder shaft is driven by servo drive motor directly, thus precision cylinder rotation control is achieved.



Squeegee/flood coater pressure control

Using the servo drive motor, one can digitally control printing pressure and flood coater pressure from the touch panel.

*MSDR-30 The flood coater Up & Down Drive is controlled by pneumatic pressure.



Vacuum Cylinder compatible to thin film

In order to be compatible with 25 μ m thickness films, the cylinder vacuum holes are specially minimized.

- Corresponding to 25 μ m film printing to meet thin material requirements in recent years in the market
- The function of position detection and position correction by CCD camera meets high level system requirements.
- High productivity is achieved due to the cylinder screen printing function.
- Various numerical settings are possible from the touch panel.
- Make ready time is drastically decreased by automating screen frame initial position setting function
- Flexible line configuration is possible with compact design dryers being developed at the same time.



CCD Camera for sheet alignment system

Stable alignment is achieved due to the marking position detection, and the correction of the plate on the by CCD camera.



Numerical Control from touch panel

A large size touch panel is applied, visibility and operability have been increased.



Printing Pressure Control

The setting of squeegee origin, pressure and change-over speed can be optimized by controlling servomotor.



Numerical Controlled screen frame positioning

The fine frame positioning can be made by inputting numerical values from the panel.

Direct Drive Cylinder Roll to Roll Screen Printing Machine LINEUP

MSDR-30

- Compact size specification developed for products with high precision unique to small machines.

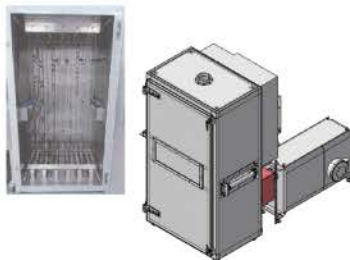
Machine Specification			
Max Web Width (W)	(mm)		300
Min Web Width (W)	(mm)		150
Web Thickness	(μm)		25 ~ 188
Max Printing Size (W x L)	(mm)		250 X 250
Max Screen Frame Size (W x L)	(mm)		650 X 650
Max Processing Speed	(Sec./shot)		3

● Printing size, Film thickness and Processing speed are subject to printing materials and printing conditions.

2 different type dryers can be offered

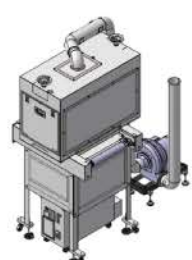
MSDR-30 Dedicated Dryer Device

Hot Air Dryer



MSDR-30VTDRY

UV Dryer



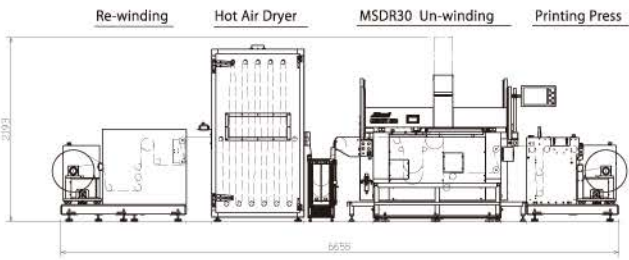
Hot Air Dryer Specification			
Max Roll Width(W)	(mm)		300
Control Temperature	($^{\circ}\text{C}$)		60 ~ 150
Machine Size	(mm)		1,351 X 1,638 X 2,100

precision requirements, and pursued the operability and high

Major features (Including Optional Equipment)	
● CCD Camera Alignment system (X.Y. θ)	
● Screen Frame Positioning by Numerical Control	
● Web Guide Devices	
● Squeegee Pressure Servo drive motor Control	
● Flood coater Pressure Manual Adjustment (Pneumatic change-over function)	
● Printing Stroke, Clearance Adjustment Servo drive motor Control	

External Dimensions

MSDR-30 Single Color Line Unit (mm)



● Multi-color printing line can be offered

MSDR-60

- CCD camera checks the marks printed by the first color printing or the previous process then the printing is performed. Thus the second or the next color will be printed with higher registration accuracy.

Machine Specification			
Max Web Width (W)	(mm)		600
Min Web Width (W)	(mm)		300
Web Thickness	(μm)		38 ~ 188
Max Printing Size (W x L)	(mm)		550 X 500
Max Screen Frame Size (W x L)	(mm)		880 X 880
Max Processing Speed	(Sec./shot)		3

● Printing size, Film thickness and Processing speed are subject to printing materials and printing conditions.

External Dimensions

MSDR-60 Single Color Line Unit (mm)



Major features (Including Optional Equipment)	
● CCD Camera alignment system (X.Y. θ)	
● Screen Frame Positioning by Numerical Control	
● Web Guide Devices	
● Squeegee and Flood Coater pressures Servo drive motor Control	
● Printing Stroke, Clearance Adjustment Servo drive motor Control	

- The technical information provided in the catalog includes many patents and patents pending.
- We have the right to make changes to the devices provided in the catalog without notice about the following matters; (1)safety, performance, improvement. (2)Improvement of design quality.
- We cannot take any responsibility arising from use other than those stated in the devices posted here and the manufacturing responsibility prescribed in the our company's regulations and other remarks.
- The processing speed posted is indicating the mechanical capability. It depends on the printing materials and printing conditions.
- Optional devices may not be fitted well depending on the combination of devices.
- The values and images are as of September 2018. They may be changed later for improvement.

Superlative products to guarantee clients satisfaction

Sakurai
Sakurai Graphic Systems Corp.
<http://www.sakurai-gs.co.jp>

Headquarters 2-2-9 Fukuzumi, Koto-ku, Tokyo 135-0032, Japan
Tel: 81-3-3643-1131 Fax: 81-3-3641-9663

London Branch Cherrywell House, Tamian Way, Hounslow, Middlesex TW4 6BL UK
Tel: 44-20-8577-5672 Fax: 44-20-8572-3942 E-mail: admin@sakurai.co.uk

Sakurai USA, Inc. 1700 North Basswood Road, Schaumburg, IL 60173, USA
Tel: 1-847-490-9400 Fax: 1-847-490-4200 E-mail: inquiry@sakurai.com



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