

### NEW MS-120DDS

The popular Sakurai DDS series is now available in a new 120 size. This state-of-the-art machine does not use gears or sprockets for drive control, and each part is directly driven and controlled by a servomotor. It was developed with these important features in mind: labor saving, ease of operation and a scratch-free conveying function even for difficult materials.



Specifications	
Dimensions (LxWxH) mm	3,937 x 3,380 x 1,782
Max. sheet size (mm)	1,250 x 788
Min. sheet size (mm)	420 x 297
Max. print size (mm)	1,200 x 766
Printable sheet thickness (mm)	0.075 – 0.8
Max. screen frame size (mm)	1,450 x 1,206
Min. Screen frame size (mm)	880 x 880
Printing speed (IPH)	200 – 2,000

#### Advantageous of direct drive system



- High printing accuracy without gear backlash etc.
- Reduced maintenance work as a significant reduction in the number of parts in the drive system
- Reduced power consumption due to reduced drive load



## NEW MS-120DDS

#### **Major New features**

• CCD camera sheet alignment system (Option)

Adjustments and settings have been simplified compared to previous models (Time for setting 2 min.)

### • CCD camera Screen frame positioning (Option)

The screen plate is automatically aligned to the reference position by center distribution. Also, align the plate positions of the second and subsequent colors so that they match the registration marks of the first color.

### Servo drive motor control squeegee/flood coater pressures

Squeegee and flood coater pressure are controlled by servo drive motors, and it can set up from the touch panel screen with numerical figures

### • Sakurai Smart Factory (SSF) Option

Utilizing the IoT, it grasps and manages the operating status of manufacturing line in real time. It can reduce costs, contribute as eco-friendly while settling the issues by "visualizing" the operation rate and work time at the site.

### • Sheet size presetting (Option)

By input of the sheet size as well as print size data, each part of the machine below is adjusted automatically. Also, the setting data can be stored and re-call it when the same job is done later stage.



Motorized screen camera moving (sheet size presetting)



Motorized feeder side guide moving (sheet size presetting)



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#### Standard accessories

- Front pick up feeder (feeder belt speed slow down device)
- Press down feed rollers and brushes
- Screen frame pneumatic lock clamp
- LCD monitor touch panel
- Adjustable R/L hand side lays while machine is running
- Fixed rebound stopper (delivery side)
- Squeegee impression digital control device
- Print elongation corrector
- Delivery board lowering device
- Suction feed belt
- Vacuum cylinder (hole diameter 0.8mm)
- Quick action squeegee lock device
- Screen frame pull-out device
- Total counter
- Fixed rebound stopper (feeder side)
- Built in front lay sensor
- Swing type Squeegee
- Ink drop pan (frame pull out)
- Preset counter



Printing condition can be controlled numerically from a large size color touch panel located at squeegee post part



Print elongation system can be adjusted the synchronization of cylinder and master frame movement. It can adjust print length to correct mismatching the image.

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#### **Optional Equipment**

- Sheet cleaning roller unit (Techniclean)
- Anti-static devices

Anti-static bars Ionized air blower device for feed board Ionized air blower device for feeder pile Ionized air blow up from the feed board

- Ultra-sonic double sheet detector
- CCD camera sheet alignment system
- CCD camera screen frame positioning system
- Mechanical double sheet detector
- Smart cover
- Screen part tensioners
- Cross over stand
- Sakurai Smart Factory (SFF)
- Sheet size pre-setting





CCD camera checks register marks for sheet alignment. This is effective to align the sheet which has no accurate corner edge



### MS-120DDS

# CCD camera sheet alignment system(Option)

Newly designed control programs
 Mark registration made easy (1-2 minutes)
 Mark registration, which took 20-30 minutes with the MS-80SD, can be completed in 1~2 minutes.

NEW

- Reduction of set-up manhours
- Increased work
  efficiency

### Significant man-hours saved by new program





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# CCD camera screen frame positioning system (option)





The screen plate is automatically aligned to the reference position by center distribution. Also, align the plate positions of the second and subsequent colors so that they match the registration marks of the first color.

Screen frame positioning

- 1. Measure the target position with the plate positioning cameras.
- 2. Calculate the amount of discrepancy from the first color plate
- 3. Motorized movement of the screen plate by the amount of discrepancy.

**MS-120DDS** 

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Machine dimensions Unit : mm



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