

Sakurai

MSDR60

**Maestro Direct Servo Drive
"Roll to Roll"
Cylinder Screen Press**



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Cylinder Screen Press

Sakurai has manufactured a cylinder type of screen presses for 45 years and integrated all know-how into this new product, MSDR 60, a direct servo drive cylinder type of "Roll to Roll" screen press

IMPORTANT FUNCTIONS

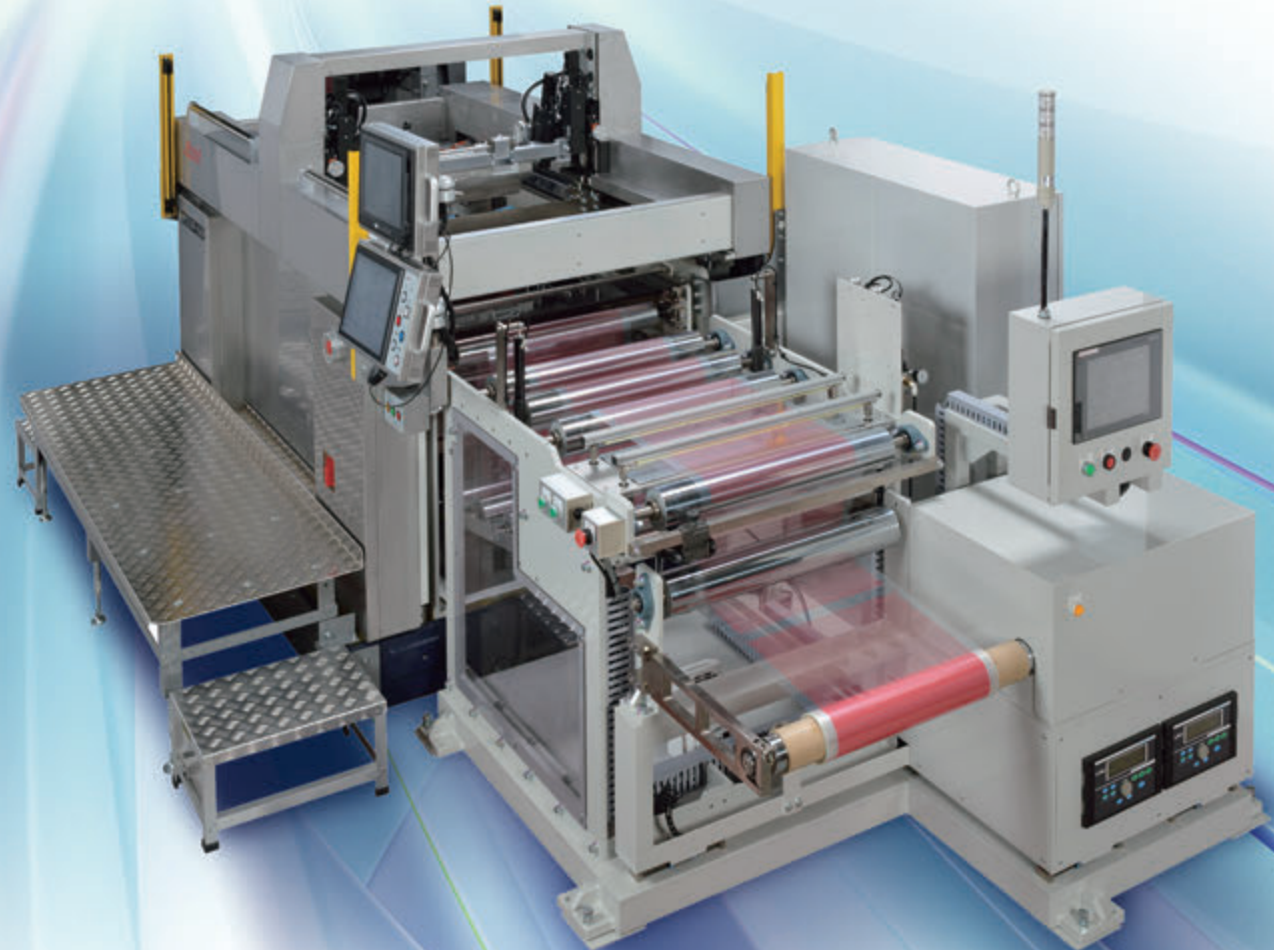
Direct servo drive

Very thin substrate printing

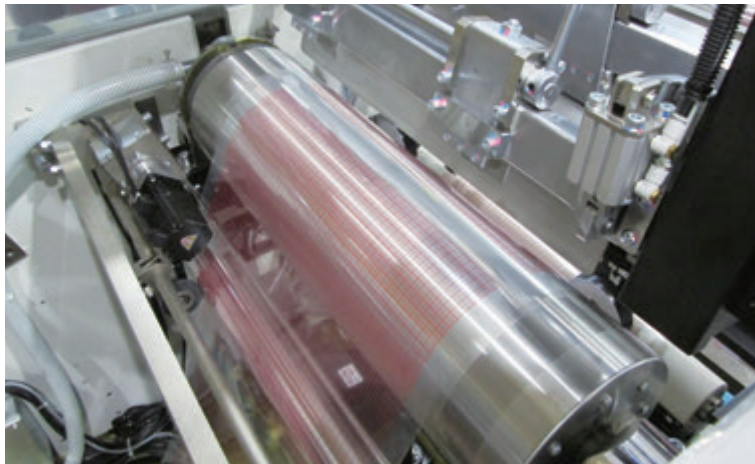
Fast tact time

Alignment accuracy

Numerical control



Because of “Direct servo drive,” there is no backlash or play in gears, belts or any other driving parts



The screen frame is driven by the linear servo motor.



As the up and down movements of the screen frame are controlled by the servo motor, accurate digital clearance adjustments are possible.

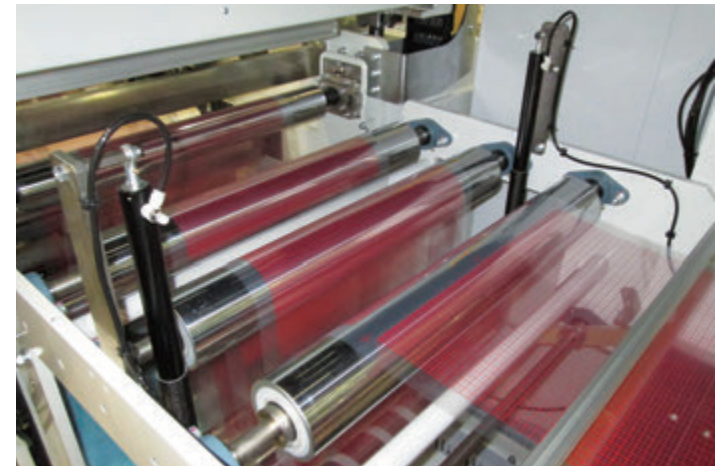


Squeeze pressure and flood bar drop-down are also controlled by a servo motor, and they are operated on the touch panel.

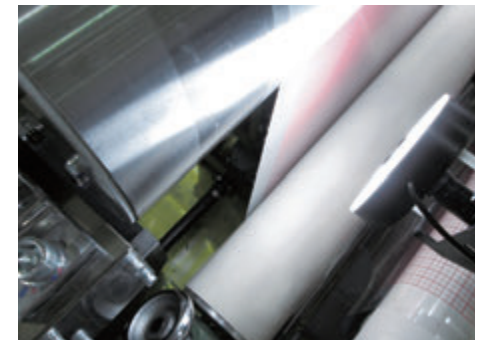
[VERY THIN SUBSTRATE PRINTING]

MSDR60 is capable of less 50 um thickness of substrate, which was not possible in the past

Well-functioned roller such as “Dancer Roller” or web guider are located in certain places in order to ensure the substrate to go into the press in proper way.

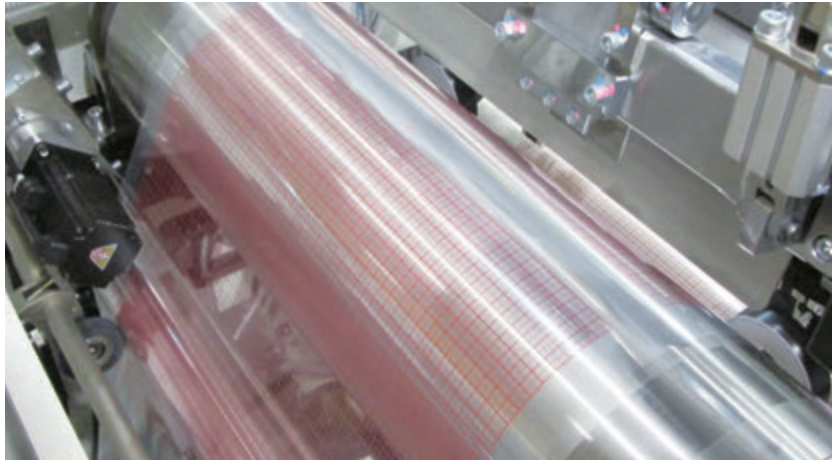


Sheet edge and tension bars are controlled by the latest sensor technology.



[FAST TACT TIME]

Accomplishment of high tact time because of the cylinder type of screen press



MSDR60 feeds substrates while printing, so printing speed is twice faster than flat bed type of screen presses.



High sophisticated numerical controls allow the press to run automatically and to shorten the tact time, resulting in higher productivity.

[ALIGNMENT ACCURACY]

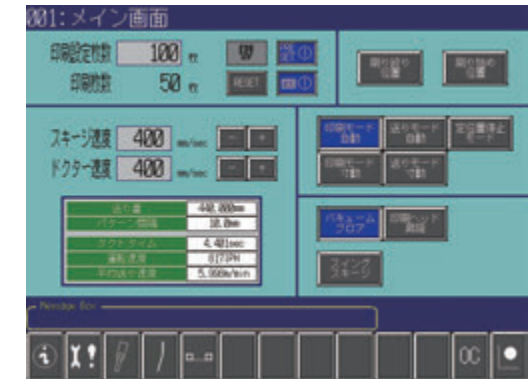
CCD Camera aligns substrates accurately



CCD Camera reads the register mark which is pre-printed on the substrate and feeding length of the roll is adjusted automatically, or the master frame moves to side ways for correct alignment. The CCD camera is moved by the touch pane.

[Numerical control]

Production management by numbers, not by operator's feeling



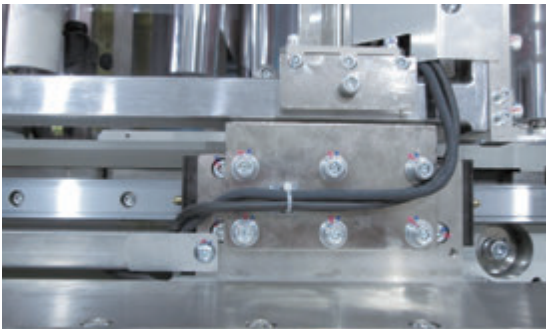
The press operation is user friendly and controlled on the touch panel.

- Speed setting
- Squeegee and flood bar speed setting
- Frame side, printing position setting
- Squeegee stroke setting
- Flood bar stroke setting
- Counter
- Squeegee pressure setting
- Substrate roll feeding speed setting
- Pattern space setting

High accuracy machining and assembling of the press guarantees high quality printing



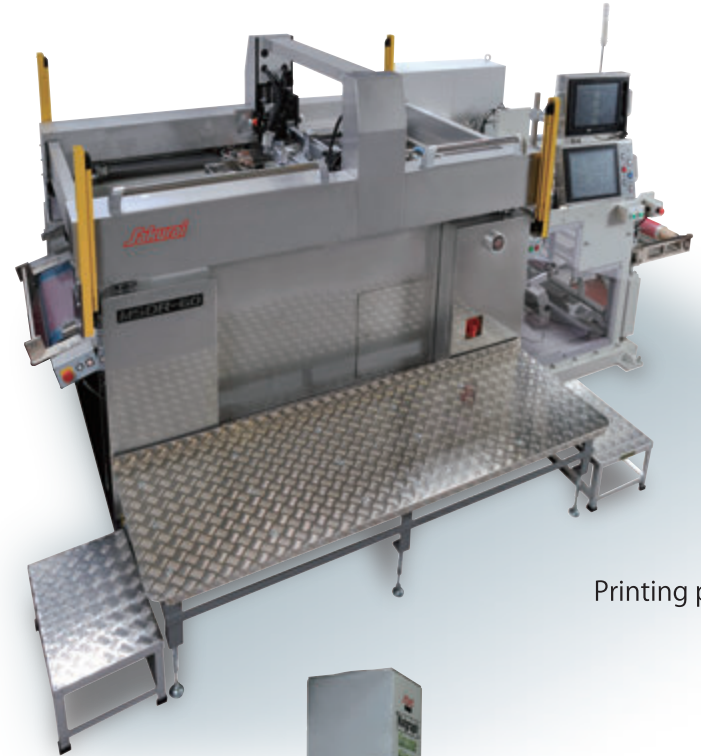
The printing cylinder is machined with less than 0.01mm accuracy (this is the utmost high level of accuracy equivalent to flat bed table surface accuracy).



Repeating positioning accuracy of the linear servo for master frame movement is ± 0.001 mm, which duplicate original screen image on to the substrate.



Since repeating positioning accuracy of the actuator for squeeze and flood bar up & down movement is ± 0.005 mm, it is perfectly suitable for the printing jobs required for the sensitive pressure.



Printing part

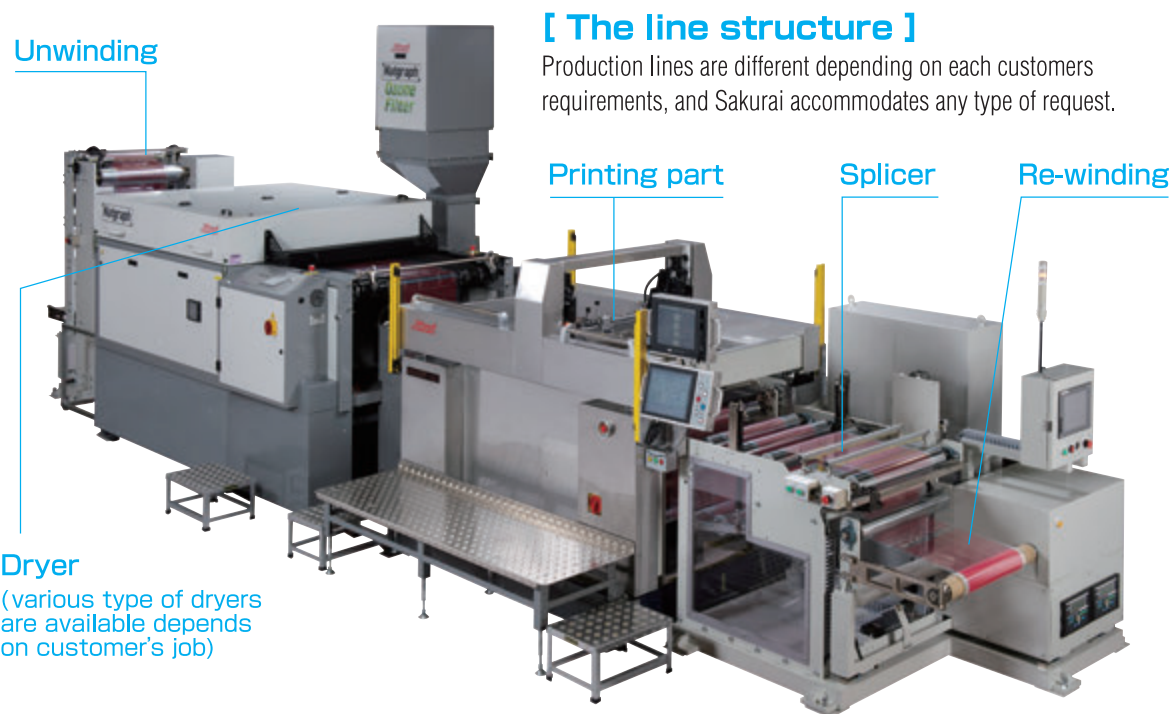
Unwinding



[Standard Specifications]

Maximum sheet width	(mm)	600(W)
Minimum sheet width	(mm)	300(W)
Sheet thickness	(μ m)	38~188*
Maximum roll diameter	(mm)	600
Maximum printing size	(mm)	550(W)×500(L)
Minimum printing size	(mm)	260(W)×100(L)
Maximum frame size	(mm)	880(W)×880(L)
Minimum frame size	(mm)	440(W)×480(L)
Screen frame thickness	(mm)	30~40
Maximum speed	(second/shot)	3
Pattern space	(mm)	10mm~

*Printing size and speed are subject to variation according to the printing conditions.



[Single Line]



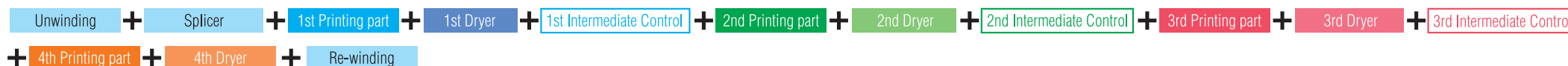
[Two Color Line]



[Three Color Line]



[Four Color Line]



Superlative products to guarantee clients satisfaction

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MS JAB CM007
ISO 9001-14001
PRODUCTION & TECHNOLOGY DEPT.

※The specifications given are as of May, 2014 and are subject to further change for improvement together with the content of the photographs