TRANSFER PRODUCTION?

HERE'S the ULTIMATE SOLUTION.

Message from Chairman and President

We sincerely appreciate your interest in and support for our company.

Since incorporating in 1946, Sakurai Graphic Systems Corporation has manufactured printing equipment and provided sophisticated services to customers closely tied to the domestic and overseas printing industry under our corporate philosophy of developing and maintaining customer relationships that endure for generations.

Over this time, the information industry and information-based society across the world have grown rapidly, benefiting from the advances in information technology. The printing industry, which plays such a vital role in the communication of information, is undergoing a structural revolution in responce to increasingly diversifying and sophisticated market needs. We at Sakurai Graphic Systems Corporation intend to continue developing printing equipment with advanced technology as a total solution-oriented company that satisfies the needs of the market.

Yoshikuni Sakurai
Chairman & Ceo

Ryuta Sakurai
President

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FLAT BED Screen Printing Press
Maestro MF-80VII
TEXTILE SMART®

Sakurai

FLAT BED Screen Printing Press
Maestro MF-80VII | TEXTILE SMART®

Sakurai Graphic Systems Corporation strives to answer all industry needs and challenges with advanced technology. Our latest innovation – **The Maestro MF80VII Smart Textile** (powered with Optical Sheet Alignment ™) will revolutionise how heat transfer decorators tackle garment printing.

Sakurai's approach has always been to listen to the market and to focus on real industry demands. It's no secret that garment decorators are faced with the challenges of producing various sized runs whilst giving consistent quality and cost efficiency, in addition to being mindful of tapping into new business opportunities.

We are excited to introduce our latest development –**The MF80VII Smart Textile** is equipped with special Optical Sheet Alignment sensors (OSA), allowing the printer to match the previous digital print in perfect registration position, ensuring all run lengths are consistent whilst streamlining the process

Maestro MF80VII Textile Smart
A fully automatic flatbed screen printing press.
The printing and feeder unit are both driven independently, allowing the sheet position to be easily and precisely controlled. Grippers hold the sheets and maintain precise positioning during the printing process. All materials can be controlled on the feeder section and the air blower system on the table achieves a smoother substrate delivery. Numerical indication devices are a standard feature on the screen position adjustment and off contact adjustment. The squeegee and flood-coater pressure also benefit from digital indication. The key word for Sakurai is automation and standardisation allowing easy operation to be achieved by even a novice operator.

1 LPA Laser Pointing Assistant

Typically, multicolour printed formats can be time consuming to set-up; however, the **MF80VII Smart Textile** press is equipped with a **Laser Pointing Assistant (LPA)**, allowing the operator to set up quickly with perfect accuracy, increasing the efficiency by 50%. The LPA also allows the screen frame position to be easily set.
The frame is then fixed in a unique position on the frame holder, then the alignment mark is set with the laser line.
The screen frame position can then be immediately set up. Together with the **OSA, "Optical Sheet Alignment"** preparation time can be halved in comparison to a normal printing machine.

2 OSA Optical Sheet Alignment

A **OSA** alignment mark is printed by the first colour using sheet edge registration, this target could be printed by other printing technology such as digital or offset if part of a combined process product. The printed mark will then be recognised by the OSA and the sheet is accurately registered by the vacuum table to follow the previous print position.
Compared to a conventional registration system, high register accuracy is easily achieved and also has the ability to compensate for previous printing process movement and print in alignment with the correct printing position, as well as possible substrate shrinkage caused by the drying process.
The **MF80VII Smart Textile** is the ideal solution for Heat Transfer application, where the requirement is to print by screen a white and adhesive layer in combination with the digital process.

3 Durable Frame and machine structure

Our MF80VII Smart Textile press is built around a solid cast iron frame with precise machine processing technology, specialised for large sized machinery. This process is based on methods cultivated from decades of manufacturing offset printing machines, meaning reliability and durability to enable stable and precise printing in high speed running processes.
Thanks to our **Zeiss 3D Measuring Machine**, located in our factory in Gifu – Japan, we measure each part of our machine with micro-level accuracy. This enables us to ensure that the finished product achieves a high level of accuracy while ensuring exceptional quality and consistent quality control.
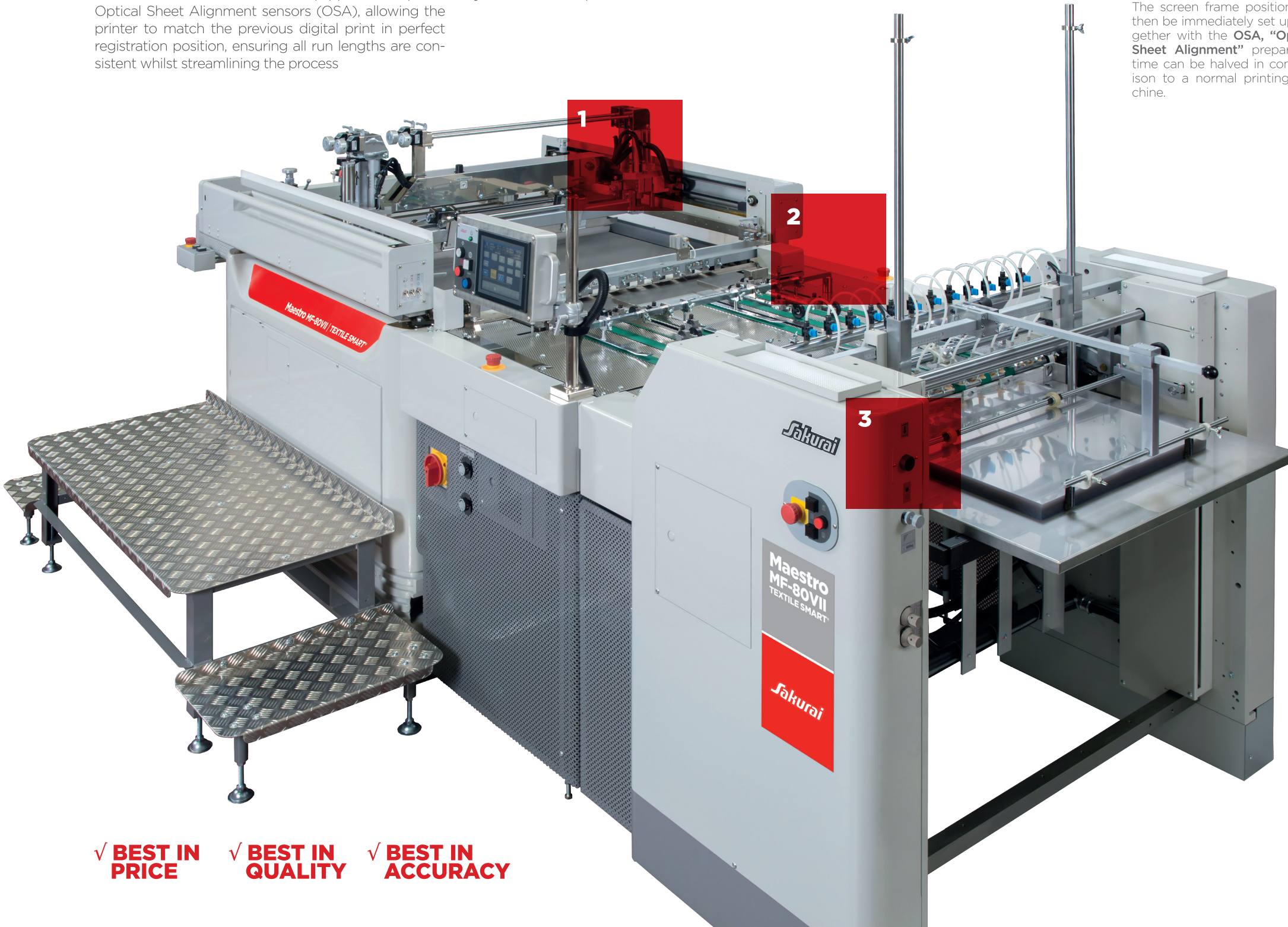
MF80 VII Optical sensor sheet alignment system

Machine size (mm)	3965(L)×2148(W)×1550(H)
Machine weight (kg)	2900(Press), 900 (feeder)
Max. sheet size (mm)	800 (W)×600 (L)
Min. sheet size (mm)	420 (W)×270 (L)
Sheet thickness (mm)	0.1-3 (*1)
Max. print size (mm)	800 X 585
Printing speed (IPH)	Standard 100-1000
	With OSA 100-650 Interim (*2)
Sheet positioning accuracy (mm)	±0.05
Sheet control subjects	Sheet edge & Printed marks
Sheet control method	3 axis stage
Sheet control drive	Servo Motor
Confirmation of sheet control	Digital RGB sensor (x 3)
Maintaining of sheet positioning	Vacuum Table
Sheet feeding	Belt Feeding
Power	7 Kw
Option mounting	LPA
Ionized air blow up	Possible

*1: Depending on the printing conditions and materials
*2: Max. Figures are interim. Printing speed should be determined from total line configuration, and it is depending on the printing condition
*3: Alignment accuracy is depending on the printing condition, register mark condition, etc.

√ **BEST IN PRICE** √ **BEST IN QUALITY** √ **BEST IN ACCURACY**

Sakurai