

The background of the image is a close-up, high-angle shot of a printing press's plate set. It features several large, white, curved metal plates arranged in a circular pattern. The plates are set against a dark, perforated metal grid. A bright yellow diagonal line cuts across the scene from the bottom left towards the top right. In the bottom right corner, a portion of a grey, rectangular plate is visible.

**Kodak**

Magnus VLF

Quantum Platesetter

# Productivity, reliability, and stability in VLF thermal imaging

## Fast imaging

You can get to press more quickly with the **Magnus VLF Quantum** Platesetter, which is one of the fastest fully automated VLF platesetters on the market. The X-speed configuration enables imaging of up to 28.2 plates per hour (2,070 mm), or 48 plates per hour (1,030 mm) at 2,400 dpi. You can achieve even faster speeds with the Automatic Pallet Loader—52.6 plates per hour (1,030 mm).

## Multiple automation options for productivity gains

Increasing the amount of time your platesetter runs unattended can provide big gains in efficiency and productivity in prepress. Less time is wasted loading plates, the platesetter is not idle awaiting attention, and operators can concentrate on other tasks. The ContinuousLoad option for the **Magnus VLF Platesetter** allows two-plate queuing and automatic plate eject to an online processor. The Multi-Cassette Unit (MCU) option allows the **Magnus VLF Platesetter** to operate with four cassettes of up to 75 plates per cassette with automatic slip sheet removal. You are able to operate continuously for longer, and the chance for errors due to manual plate loading is reduced.

The Automatic Pallet Loader (APL) option enables easy and efficient bulk loading. Simply load between one and six pallets with up to 600 plates each, and the APL does the rest. It automatically selects the correct size plate based on the job, removes slip sheets, and loads the plates with no operator intervention. The result is faster plate loading, reduced manual handling, and extremely long unattended operation.

Further productivity gains can be achieved with the dual-plate option, allowing you to load two plates concurrently, and the Side-Edge Registration option, which enables plates imaged in portrait orientation to be registered to the long edge.

## Integrated punch enhances automation

The **Magnus VLF Platesetter** features a fully integrated punch option with accurate three-point registration, helping eliminate costly errors. The punch option is available with ContinuousLoad, MCU, or APL automation options, and is fully configurable to match a wide variety of press requirements.

The inline punch automatically corrects for temperature-related plate expansion difference between platesetters for precise registration of plates.

## Choose your preferred size and speed

The **Magnus VLF Platesetter** is available in four sizes. The largest can image plates up to 1,600 x 2,083 mm, and the smallest can image plates up to 1,168 x 1,804 mm. Speed options allow you to choose the number of plates per hour your device will produce.

## Large drum, small footprint

With its large drum size, the **Magnus VLF Platesetter** is capable of imaging larger plates for new VLF presses. The device uses floor space efficiently with its linear design, including an enclosure that integrates head cooling and debris collection within the machine.

## **SQUAREspot Imaging Technology**

The **Magnus VLF Quantum** Platesetter features advanced **Kodak SQUAREspot Imaging Technology** for exceptional stability in imaging. **SQUAREspot Technology** improves press utilisation by delivering plates with excellent accuracy and repeatability, and notably better tonal consistency throughout the developer life cycle, reducing waste and improving make-ready. You can keep your large-format press operating steadily, making room for shorter run lengths and greater customisation.

**SQUAREspot Technology** also helps you maintain end-to-end data integrity, from the original file through to the press, even as process conditions fluctuate. The high-resolution laser helps ensure that the resulting dots on plate are consistent and repeatable from plate to plate, platesetter to platesetter, and day to day. Plates made on different platesetters using **SQUAREspot Technology** will match in fit, quality, and register.

## **Temperature compensation system enhances accuracy**

To improve fit and register on press, a unique temperature compensation system adjusts for changes in ambient temperature and corrects for plate expansion and contraction. This system also reduces the number of wasted plates.

## **High-fidelity Staccato Screening included**

**SQUAREspot Technology**, combined with 10 or 20-micron **Kodak Staccato Screening**, allows you to produce photorealistic prints to distinguish your business. Bundled with **Magnus VLF Quantum** Platesetters, **Staccato Screening** produces high-fidelity, artefact-free images that exhibit fine detail without halftone rosettes, screening moiré, gray level limitations, abrupt jumps in tone, or impact on RIPing or rendering time. **Staccato Screening** brings tonal and colour stability to the pressroom by reducing variations in dot gain and colour contamination from paper.

## **Renowned worldwide service and support from Kodak**

**Kodak Service and Support** offers a network of global response centres, an easy-to-use Internet support portal, and over 3,000 geographically dispersed, factory trained professionals.

**Kodak Service Wire** remote support allows our response centre to directly interact with your **Kodak Platesetter**, saving you time and helping ensure maximum uptime. With our flexible service programmes, you can optimise your operations by taking advantage of our fast response times, preventive maintenance services, extensive parts inventory, and comprehensive global coverage.

## **Complete solution from Kodak**

Kodak is the one vendor that can offer you a complete and truly unified workflow solution, including CTP device, plates, plateline equipment, and workflow. With over 15,000 thermal CTP installations, six plate manufacturing plants located throughout the world, and a highly skilled and responsive support network, Kodak is an ideal partner for your VLF plate making needs.



**Magnus VLF Platesetter**

# Kodak Magnus VLF Quantum Platesetter

## Automation options

- Semi-automatic: Utilising static load/unload tables, plates are electronically 3-point registered to the imaging engine.
- ContinuousLoad: While one plate is being imaged, the second plate is placed in standby and loads automatically after the plate on the drum unloads to an online processor.
- Multi-Cassette Unit: Holds up to 300 plates in four cassettes, each with up to 75 plates with slip sheets. The required cassette is automatically selected according to the job definition. Empty cassettes can be reloaded while the platesetter is running.
- Automatic Pallet Loader: Loads plates directly from shipping pallets into the **Magnus VLF Platesetter**. Capable of holding between one and six pallets of up to 600 plates each for very high capacity and no operator handling of plates.

## Performance for Kodak Thermal Gold Digital Plates and Kodak DITP Gold Thermal Plates

Model number	4570/5570	5183/6383
<b>1,030 mm plates</b>	pph = plates per hour	
S-speed	12.5 pph	13.7 pph (dual plate)
F-speed	20.5 pph	23.8 pph (dual plate)
V-speed	25.8 pph	31.3 pph (dual plate)
X-speed with CL/MCU	39.9 pph	48.0 pph (dual plate)
X-speed with APL	39.9 pph	52.6 pph (dual plate)
<b>1,524 mm plates</b>		
S-speed	9.1 pph	
F-speed	15.6 pph	
V-speed	20.4 pph	
X-speed	33.2 pph	
<b>2,070 mm plates</b>		
S-speed	7.0 pph	
F-speed	12.4 pph	
V-speed	16.6 pph	
X-speed	28.2 pph	
Repeatability	15 microns between two plates imaged by the same device (at largest plate size and over full temperature range)	
Accuracy	35 microns between two plates imaged by the same device (at largest plate size and over full temperature range)	
Registration	25 microns between image (near registration points) and registration points (for all plate sizes over the full range of temperature)	
Imaging specifications	<b>Magnus VLF Quantum Platesetter: squarespot</b> Imaging Technology, 17.7 lines/mm maximum resolution and optional 20- or 10-micron <b>Kodak Staccato</b> Screening	
Resolution	S-speed: 96 dpmm (2,400 dpi) or 100 dpmm (2,540 dpi) F-speed: 96 dpmm (2,400 dpi) or 100 dpmm (2,540 dpi) V-speed: 47.2 dpmm (1,200 dpi), 96 dpmm (2,400 dpi) or 100 dpmm (2,540 dpi) X-speed: 96 dpmm (2,400 dpi)	

## Media Specifications

Model number	4570	5183	5570	6383
Media type	830 nm thermal IR-sensitive aluminium plate			
Plate sizes minimum to maximum, around drum x along drum (Minimum plate size for APL is 483 x 584 mm in either portrait or landscape)	483 x 394 mm to 1,168 x 1,804 mm	483 x 394 mm to 1,296 x 2,083 mm	483 x 394 mm to 1,422 x 1,804 mm	483 x 394 mm to 1,600 x 2,083 mm
Plate thickness	Semi-automatic: 0.15 - 0.4 mm ContinuousLoad / Multi-Cassette Unit / Automatic Pallet Loader: 0.2 - 0.4 mm			

The platesetter is a Class 1 Laser Product and fully complies with EN60825-1 and US Federal Regulations 21 CFR 1040.10 - CDRH.

To learn more about solutions from Kodak,  
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