MAGNUS 800 PLATESETTER SPECIFICATION

Product Description	The *Kodak Magnus* 800 platesetter is Kodak's top of the line 8 page Thermal CTP (830 nm). It combines *SQUAREspot* imaging technology with superior automation capabilities. The robust and highly productive *Magnus* 800 platesetter offers semi and fully automatic operation, scalability, stability, easy maintenance, exceptional imaging quality for 8 page sheet feed and web printers.
Features and Benefits	
Automation features	• Semi automatic with continuous load • Fully automatic with Single-Cassette Autoloader – The SCU is available in left or right orientation. • Fully automatic with Multi-Cassette Autoloader – The MCU is available in left or right orientation. • Inline punching – standard and customized punches • In line connectivity to straight conveyor • Automatic slip sheet removal • Automatic 3 point registration with electronic confirmation • Quick plate remake and bypass option **Note:** Semi automatic with continuous load will be available only 3 months after first early production shipment **Note:** 3 and 4 cassettes MCU will not be supported during the early production period. It will be available at full production.
Imaging performance	• 830 nm thermal imaging head with dynamic auto focus • S speed with 15[1] plates per hour • F speed with 22[1] plates per hour • V speed with 30[1] plates per hour • X Speed with 40[1] plates per hour • Quantum feature set available • Imaging resolutions of 2400/1200 or 2540/1270 dpi • Kodak *Staccato* screening 10, 20, 25 micron or up to 450 LPI of AM screening depending on the model and option **Note:** Higher throughput will be available at a later stage
Prerequisites	• *Kodak Prinergy* Evo workflow system • *Kodak Prinergy* workflow system • *Kodak Brisque* workflow system • Approved tiff file from 3rd party workflows via Xpo connectivity • Kodak "*Magnus* 800 Site Preparations and Requirements"
Product Version	• *Magnus* 800 s/w v1.02

[1] Imaging time is dependant on media sensitivity. All values are for media sensitivity of 120mj/cm² and plate width of 1030mm / 40.55"

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Configurations	• 015-00621A-01	Magnus 800, 2400 dpi, S-Speed, Semi Automatic
	• 015-00621A-02	Magnus 800, 2540 dpi, S-Speed, Semi Automatic
	• 015-00621A-19	Magnus 800 Quantum 2400 dpi, S-Speed, Semi Automatic
	• 015-00621A-20	Magnus 800 Quantum 2540 dpi, S-Speed, Semi Automatic
Optional Hardware	• **Performance options:**	
	• 015-00621A-04	Magnus 800 - Factory installed F Speed option up to 22 pph
	• 015-00621A-05	Magnus 800 - Factory installed V Speed option up to 30 pph
	• 015-00621A-06	Magnus 800 - Factory installed X Speed option up to 40 pph
	• **Automation options:**	
	• 015-00621A-09	Magnus 800 - Factory installed Single-Cassette Autoloader with Left Access
	• 015-00621A-10	Magnus 800 - Factory installed Single-Cassette Autoloader with Right Access
	• 015-00621A-11	Magnus 800 - Factory Installed Multi-Cassette Autoloader Option, 5 Cassettes Left Access
	• 015-00621A-12	Magnus 800 – Factory Installed Multi-Cassette Autoloader Option, 5 cassettes Right Access
	• 015-00621A-13	Magnus 800 - Factory or Field Installed Large Paper Bin
	• 015-00621A-16	Magnus 800 - Factory Installed Straight Conveyor
	• 015-00621A-15	Magnus 800 - Factory or Field Installed Additional Single-Cassette & Trolley
	• 015-00750A	Magnus 800 - Factory or Field Installed One Punch Hole
Optional Software	• 22-0282A	Kodak Staccato 10 micron high definition stochastic screening

Platesetter components

Standard Hardware

- *Magnus* 800 Platesetter includes:
  - *Magnus* 800 platesetter
  - Debris Removal Cabinet (external cabinet)
  - *Magnus* 800 controller PC with keyboard and mouse
  - *Magnus* 800 controller stand for the PC.
  - 15” LCD color monitor

Standard Software	• *Magnus* 800 controller software
	• 25 micron *Kodak Staccato* screening
	• Windows Server 2003 operating system
	• Multilingual graphical user interface:
	  • Supported language:
	  • English
	  • German
	  • Japanese
	  • Italian
	  • Spanish
	  • French
	  • Chinese
	• Remote access and control for both remote diagnostic and user remote view.

Features	• Continues loading to increase the walk away time of the operator • 3 point registration • In line punch option • automatic unloading to an on-line processor / plate stacker
Documentation Included	• *Magnus* 800 Visual Reference Guide • *Magnus* 800 User Safety Guide • *Magnus* 800 on line help
Training Included	• During installation – 1/2 day of basic training is included at the end of the installation.
Input	
Media size	• Along drum axis: 1162 mm (45.7 in.) max, 381 mm (15 in.) min • Around drum circumference: 950 mm (37.4 in.) max, 330 mm (13 in) min
Media type	• Thermal IR-sensitive aluminum plate, 830 nm • Some plates may restrict the operating range of the Platesetter system. Consult the plate manufacturer for their recommended temperature and humidity ranges for plate operations and storage. • Consult with your Kodak representative for media-specific qualification status
Media thickness	• 0.15 to 0.4 mm (6 to 16 mil)
Light Source	• Infrared laser diode
Output	
Image area	• Along drum axis: full plate coverage • Around drum circumference: 938 mm (36.9 in.) max, 318 mm (12.5 in.) min • Head gripper margin: 6 mm (0.235 in.) • Tail gripper margin: 6 mm (0.235 in.)

Resolution	• 94.4/47.2 dpmm (2400/1200 dpi) **OR** • 100/50 dpmm (2540/1270 dpi)

Approved screen sets	• *Magnus* 800 platesetter:
	  • Up to 200 lpi max
	  • Staccato 25 included
	  • Field upgrade to Quantum feature set is available
	• *Magnus* 800 Quantum platesetter:
	  • Up to 450 lpi max
	  • *Staccato* 20 included
	  • *Staccato* 10 optional

Performance	
Throughput[2,3,4]	• **S** speed imaging: **15** plates per hour • **F** speed imaging: **22** plates per hour • **V** speed imaging: **30** plates per hour • **X** speed imaging: **40** plates per hour
Repeatability[4]	• ±5 microns (±0.2mil) between two plates imaged by the same device (at largest plate size)
Accuracy	• ±20 microns (±0.8mil) absolute accuracy (at largest plate size) • 40 microns (1.57mil) absolute accuracy between two plates imaged by different a *Magnus* 800 platesetter, *Trendsetter* 800 platesetter or *Lotem* 800 Quantum platesetter (at largest plate size and same resolution)
Registration	• ±25 microns (±1.0mil) between image and punches, when customer punches are used (at largest plate size).

[2] Using Kodak workflow at 2400 DPI
[3] Imaging time is dependant on media sensitivity. All performance values are for media sensitivity of 120mj/cm² and plate width of 1030mm / 40.55”
[4] Kodak approved plates only - metallic media with nominal thickness

Options	
Single-Cassette Autoloader	
Includes:	• Fully automatic autoloader with SCU • The SCU can be configured in a left or right orientation (this option needs to be defined during the ordering process). • One single-cassette with a trolley – one autoloader can support multiple single-cassette units, which can be ordered separately. • Standard paper bin for up to 100 interleaf sheets. Larger paper bin for up to 250 interleaf sheets is optional.
Features:	• Each single cassette can hold up to 100 plates of the same size with interleave paper (0.3mm/12mil) • The cassette can contain any plate size from min to max plate sizes of the Platesetter • Manual switching between single-cassettes • Off line cassette re-fill and media definition update to shorten the non imaging time while switching between cassettes • Automatic slip-sheet removal • Automatic plate registration • An option to bypass the automatic plate loader by inserting the plate directly into the Platesetter from the loading conveyor (remake and bypass options are both available with fully automatic version)

Multi-Cassette Autoloader	
Includes:	• Fully automatic autoloader with MCU • The MCU contains 3 - 5 cassettes • The MCU can be configured in a left or right orientation (this option needs to be defined during the ordering process). • Large paper bin for up to 250 interleaf sheets. **Note:** Only 5 cassettes MCU will be available during the early production period. 3 and 4 cassettes MCU will be available at full production.
Features	• Each cassette can hold up to 100 plates of the same size with interleave paper (0.3mm/12mil) • Each cassette can contain any plate size from min to max plate sizes of the Platesetter • Replacement time between cassettes is approximately 2 minutes • Ergonomic plate loading and refilling • It is possible to load or refill all the cassettes while the *Magnus* 800 platesetter is working and imaging except for the one cassette which is in use by the autoloader • An option to bypass the automatic plate loader by inserting the plate directly into the Platesetter from the loading conveyor (remake and bypass options are both available with fully automatic version)

Unloading Conveyors	• The In line Conveyor is a bridge between the *Magnus* 800 platesetter and the plate processor. Possible configurations:
	  • Straight conveyor to a wide processor
	  • Straight conveyor with 90º rotation to a narrow processor
	  • L or T shape conveyors to allow unloading of a plate to a narrow processor
	Note: The option of 90º rotations and L/T shape conveyors will be available only at full production.

Paper bin basket	• An external container to collect interleaf paper
	  • Standard paper bin for up to 100 interleaf sheets
	  • Optional large paper bin for up to 250 interleaf sheets (this bin is included when ordering MCU)

In line punch	• Up to 10 customized punch heads selectable from a list of different punches qualified for the *Magnus* 800 platesetter. • Optional automatic punching is operated according to press profile selected from the *Kodak* workflow. • Punch is applicable on the front edge of the plate only.

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Environmental Conditions[5]	• 20 to 30° C (68 to 86° F) • 40% to 60% relative humidity (non condensing) • Staccato 10 maximum temperature variation allowed: ±2.5ºC

Electrical Requirements	• For Platesetter and Autoloader:
	  • 230V AC ±10%, 50Hz, 12Amp
	  • 208V AC (-6%+10%), 60Hz, 12Amp
	• For Multi-Cassette Unit:
	  • 230V AC ±10%, 50Hz, 5Amp
	  • 208V AC (-6%+10%), 60Hz, 5Amp

Equipment Dimensions	• Platesetter: 2495x1504x1100 mm (98.2x59.2x43.3”) (W x D x H) • Autoloader: 1690x1420x1450 mm (66.5x55.9x57.1”) (W x D x H) • Single-Cassette: 1140x1695x810 mm (44.9x66.7x31.9”) (W x D x H) • MCU: 1690x1820x1450 mm (66.5x71.7x57.1”) (W x D x H) • Conveyor: 1350x1200x855 mm (53.1x47.2x33.7”) (W x D x H) • Standard paper bin: 1400x660x610 mm (55.1x26.0x24.0”) (W x D x H) • Large paper bin: 1400x860x610 mm (55.1x33.9x24.0”) (W x D x H)
Equipment Weight	• Platesetter (incl. accessories): 1040 kg (2293 lb.) • Autoloader (incl. accessories): 800 kg (1764 lb.) • Single-Cassette (incl. 100 plates): 200 kg (441 lb.) • MCU (incl. 500 plates): 1700 kg (3748 lb.) • Output conveyor: 75 kg (165 lb.)
Regulatory Compliance	
Electrical / mechanical	• CSA 950/UL 1950 (CSA NRTL/C Mark), EN 60950/IEC 950 (CE Mark) • European Machinery Directive 98/37/EC • EN60204-1 • EN292-2
Laser	• EN60825-1 Class 1 laser product. (CE mark) • USA Federal Regulations 21CFR 1040.10 (class 1 laser product)
Electro Magnetic Compatibility	• European EMC Directive 89/336/EC as amended by 92/31/EC and 93/68/EC, • EN55022: 1998, class A. • EN61000-3-2: 1995, • EN55024: 1998. EN61000-4-2, -4-3, -4-4, -4-5, -4-6, -4-8, -4-11. (CE mark) • USA Federal Regulations FCC 47CFR part 15 subpart B class A

All product specifications are subject to changes

[5] Refer to the “*Magnus* 800 site preparation and requirements” document for details