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## Process Stability and Business Benefits from CTP Automation



# Why automate prepress production?

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Productivity

Cost Savings / Business Efficiency

Quality & Reliability

Manpower reduction / re-deployment

Process Control

Extended operational hours



# Productivity

- Efficient use of facilities and resources
- Maximize speed to market and customization
- Eliminate process dependency on operator availability and priority
- Reduce waste



# Reduce the 7 Forms of Waste

<b>Waste Type</b>	<b>Automation reduces it by...</b>
<b>Transportation</b>	Simpler movement of plates / pallets, and fewer handling operations required.
<b>Inventory</b>	Automatic plate loading equipment enables multiple size presentation online (kanban) for continuous plate supply.
<b>Motion</b>	Plate loading is easy and can be done by 1 person in 1 load – including large sizes with “Automatic Pallet Loader” (APL) options.
<b>Waiting</b>	Decreased machine and operator waiting time, increased CTP uptime and actual productivity.
<b>Over processing</b>	Reduced manual handling activities for plates drastically reduces the number of human touch points in the production process. An APL can also dramatically reduce package preparation activities and waste streams.
<b>Overproduction</b>	Greater CTP uptime means plates can be imaged later, Just In Time.
<b>Defects</b>	Having fewer production touch points reduces or eliminates manual plate handling damage and operator error-induced spoilage and rework.

# Quality and Reliability

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- Fewer handling errors, spoilage, and damages
- Consistent, predictable and efficient plate making



# Process Control / Process Stability

- Eliminate operator-induced plate handling errors
- Reduce or eliminate plate damages due to handling
- Ensure consistent plate performance by removing handling variability



# Cost Savings and Business Efficiency

- Reduce staffing requirements
- Reduce overall floor space usage (online storage) and duplicate storage
- Higher productivity due to elimination of machine and operator waiting
- Unattended operation
- Reduce or eliminate plate damages, spoilage, and associated pressroom waste



# Manpower reduction or re-deployment

- Fewer staff required to attend CTP operation – only for exception handling and occasional reloading
- Staff can better multi-task – no need to be dedicated to plate loading/unloading



- Systems can include exception reporting and automatic notification, enabling fully unattended operation (including pager / SMS / email notification)

# Extended Operational Hours



- Systems can include exception reporting and automatic notification – enabling fully unattended operation (including pager / SMS / email notification)
- Larger automation systems can run unattended for extended periods – often enabling full-shift “hands off” operation

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# Kodak's Automation Options

Multiple options to suit your needs and future growth

# Auto Unload

- New option available in 2010 with the new **Trendsetter News** Platesetter and **Trendsetter 800** Platesetter
- Manual plate loading
- CTP automatically unloads imaged plates directly to processor or stacker

## Benefits:

- Low-cost automation, small footprint



# ContinuousLoad Automation

- Operator places plate on load table
- CTP automatically loads plate and images
- Next plate can be pre-staged on load table during imaging, for automatic loading once first plate is complete
- CTP automatically unloads imaged plates directly to processor or stacker

## Benefits:

- Low-cost automation, small footprint
- Pre-loading of next plate can be done at any time
- Ensures continuous operation of the CTP, not dependent on exact operator timing to beginning/end of cycle



# Single-Cassette Unit (SCU) Automation

- One cassette, with one plate size and type
- CTP automatically loads plates from the cassette, images them, and unloads them directly to a processor or stacker
- Operator changes cassettes, or reloads cassette (depending on model) to change sizes, or when cassette is empty

## Benefits:

- Small footprint, economical automation
- Some models upgradable to Multi-Cassette Unit
- Continuous unattended operation for up to 60 plates
- Frees operator for other duties for extended periods



# Multi-Cassette Unit (MCU) Automation

- Multiple cassettes, with one plate size and type each
- CTP automatically loads plates from the cassette, images them, and unloads them directly to a processor or stacker.
- CTP automatically switches cassettes to select different plate sizes or types, based on the job requirements
- Operator changes cassettes, or reloads cassette (depending on model) to change sizes, or when cassette is empty

## Benefits:

- Flexible automation for multiple formats
- Continuous unattended operation for extended periods, including format changing
- Frees operator for other duties for extended periods



# Automatic Pallet Loader (APL)

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- Up to 6 uniquely sized pallets (3600 plates) online for **Magnus VLF Platesetter**
- 1 pallet of up to 600 plates for **Magnus 800 Platesetter**



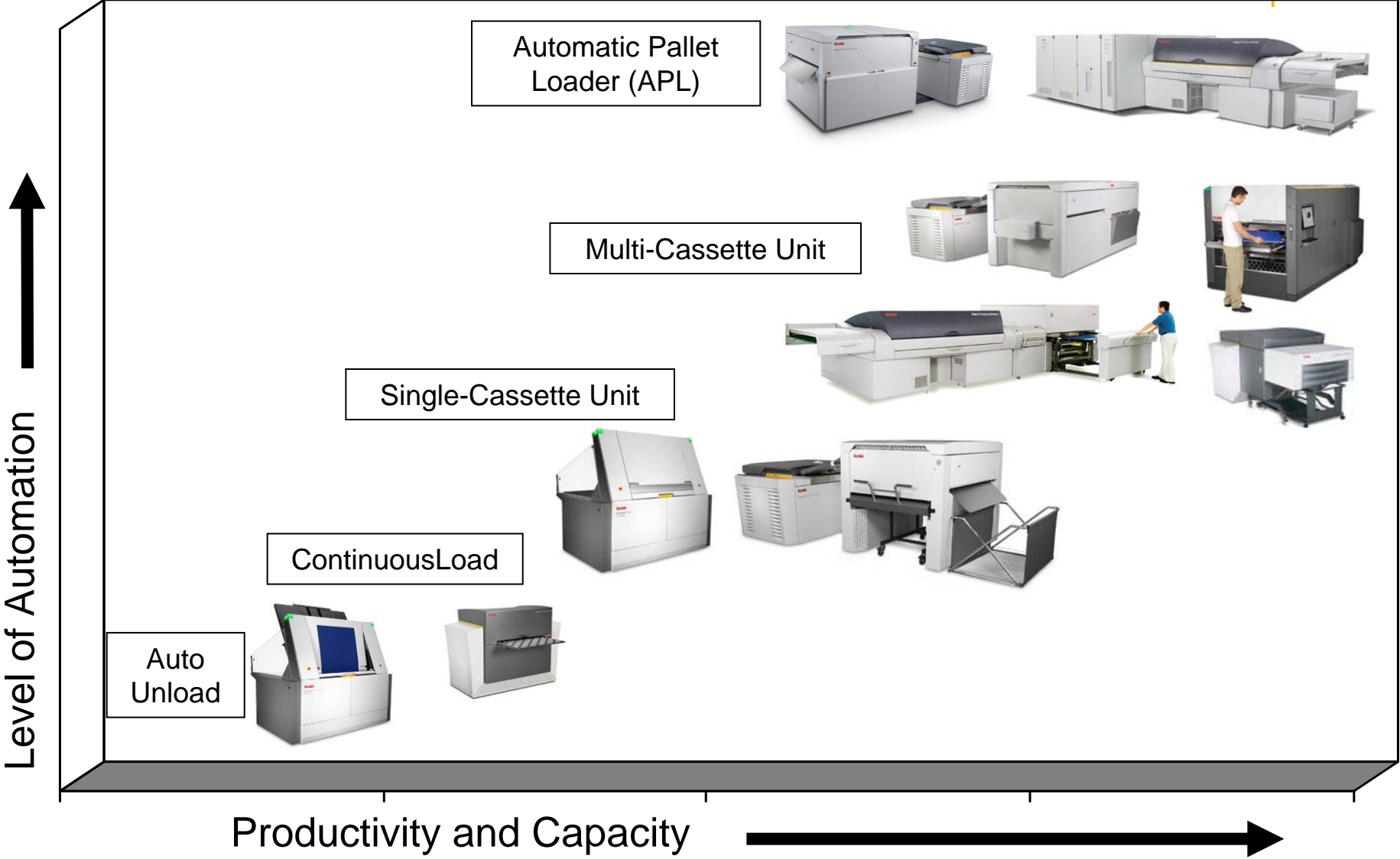
## Benefits:

- No manual handling of plates from the aluminum in Kodak's factory until the imaged plate is output from the processor – less risk of handling damage
- Continuous unattended operation for extended periods
- Unattended format changes for VLF Platesetter



Available for **Magnus VLF Platesetter** & **Magnus 800 Platesetter**  
(only APL for 8-page CTP in the industry)

# Kodak's Automation Options



The image features the word "Kodak" in its signature red, bold, sans-serif font. The text is positioned to the right of a vertical yellow line. A horizontal yellow line intersects the vertical one, extending across the entire width of the page. The background is plain white.

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