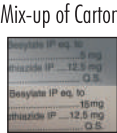
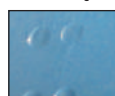
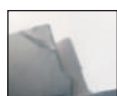
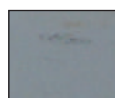
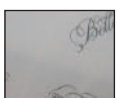


Spotting the minutest flaws
Detecting the smallest error
Nothing can escape
Autoprint Checkmate 65!



SAMPLES OF ERRORS

Print Inspection Camera	Colour Variation 	Die Cutting 	Scum 	Registration 
	Text Defect 	Mix-up of Cartons 	Scratches 	Bar Code 
Foil and Embossing Camera	Hot Foil 	Drip-off Coating 	Aqueous Coating 	UV Coating 
	Braille half-cut, Missing 	Scratches/Wrinkle on Matte Lamination 	Embossing 	
Bottom Camera	Dead Insects/ Stains 	Printing Defects 	Gross Colour Variation 	Glue Missing from Window Film 

Technical Specifications

Maximum Paper Size	: 650 x 400 mm
Minimum Paper Size	: 100 x 100 mm
Speed	: 300 meter per minute
Carton Thickness	: 180 to 400 gsm
Camera	: 3 Nos (2 top & 1 bottom) 1 Colour Camera - 5k for Checking Printing Defects 1 Monochrome Camera - 8k for Checking foil Defects 1 Bottom Camera - 4k for Checking Dead insects

Overall Size (LxWxH)	: 6600 x 2130 x 1950 mm
Total Power	: 18 kW (24 HP)



A carton-full of top-notch features!

- Bottom feeding system with vibrator
- Air jets provided to remove dust /fluff from cartons
- Vacuum belt under the camera to hold the carton firmly
- High speed fail proof pneumatic ejection system with air jets to effectively segregate good & defective cartons
- Delivery stacker with servo-control for stream stacking
- Curved conveyor for collecting rejected cartons separately
- Air jets for periodic cleaning of camera lens
- Ergonomically placed operator control with touch panel
- Separate panel with computer that allows viewing of good and rejected cartons on the run
- 4 Cameras to monitor the running of the machine, which also gives views for accept and reject conveyor
- Cooling system for computer and also for camera area
- Brush and vacuum with high speed nozzle for eliminating dust
- Full guards with CE, to provide safety for operator
- Machine with rugged frame design
- All operator touch areas are designed with corrosion free stainless steel and hard chrome plated parts
- Online UPS system with APC (automatic power control)for computer, light and camera software
- User friendly interface allows easy configuration of software
- Easy model tuning during inspection
- Different tolerance levels can be set in different sections to ensure only critical defects are rejected
- Reject image viewer for defect visualization
- Special scratch and cluster detection
- All defective print images can be archived into the database
- Powerful software algorithms enable sensitive defect detection while maintaining high yield
- Region-wise online defect statistical report generation for corrective actions
- Stop on Error: Batch Max up. If batch maxup machine will stop there and error shows
- Optional:
 - Carton counter
 - Provision for running fluted cartons



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Due to continuous development and product improvements, the company reserves the right to change/alter the specifications mentioned herein.



When you promise world-class quality
you cannot afford a single defect...

Autoprint
Checkmate 65
A Print
System
for defect-free
cartons



Inspect. Detect. Segregate. Presenting Autoprint Checkmate 65

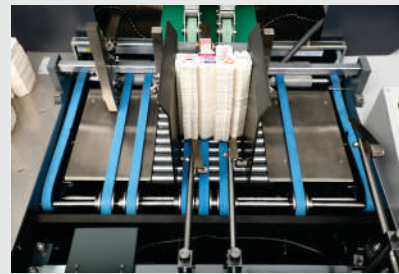
It has been Autoprint's constant endeavour to bring our customers cutting-edging technology, to raise the bar and to add value by innovating consistently. Our efforts have borne rich fruits, the latest of which is the new carton inspection system called Autoprint Checkmate 65. This revolution in imaging technology ensures defect-free print products to the end customer, with 100% accuracy. Besides inspecting print defects and foil errors, Autoprint Checkmate 65 segregates the good and defective cartons neatly into different stacks which can be further analysed to correct the previous process. This not only eliminates expensive manual labour but also enhances inspection speed and process.

Unmatched features that translate into unmatched benefits

With an unbeatable combination of hardware processing along with high performance multi core processors, Autoprint's Checkmate 65 enables the use of complex software algorithms to detect even the minutest printing defects such as ink smudges, spots, scratches, uneven ink, colour variation, foil stamping variation, hazing, missing print/character, filled-in character, misregistration and other fine flaws and irregularities.

Feeder Unit

Autoprint Checkmate 65 has a Carton Feeding System, which is mounted over SS rollers. The system has an in-built **Pneumatic** vibrator for smooth feeding of a wide range of carton stock ranging from 180-450 gsm. A bottom feeding mechanism in the feeder unit helps feed the cartons efficiently without them getting folded, jammed or in a cross position. The quick setting mechanism in the back stacker and side stacker allows the setting of any job in the optimum time. A scale provided at the feeder is replicated in the monitor, to set the repeat job accurately within the shortest duration. The Ultrasonic Double Sheet Detector in the feeder unit stops the machine to prevent the passage of double cartons.



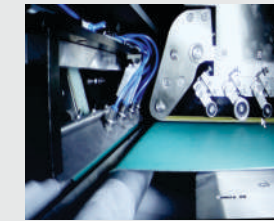
Camera Inspection System

Autoprint's Checkmate 65 comes with three different cameras which are designed to detect a variety of defects in cartons. The main camera, which is 5K colour, is used to check all print defects and colour variation. The second black and white camera detects foil presence, foil defects, embossing defects, braille defects, braille presence/absence, coating defects, coating presence/absence, etc. While these two cameras are mounted on the top of the conveyor, there is a third camera mounted at the bottom, which spots defects like insects sticking to the back of cartons.

All three cameras are provided with an independent LED light source for capturing crystal clear images of the cartons. All cameras are also provided with a pneumatic cleaning system with air nozzles for lens. The camera unit is totally independent of the machine and hence completely vibration-free which ensures excellent image quality. This conveyor is on a vacuum chamber which allows the cartons to be held firmly during inspection.

Pneumatic Ejection System

The fail-proof high-speed Pneumatic Ejection System of Autoprint's Checkmate 65 enables the effective and efficient segregation of good and defective cartons. All good cartons are collected on the top conveyor, while the defective cartons are assembled separately on a curved conveyor to prevent the mixing of the two. This system has a high-speed pneumatic solenoid with air jet nozzles.



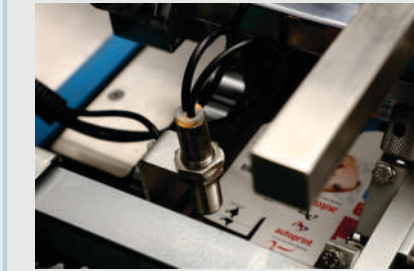
Delivery Stacker

The servo-mechanism in the Delivery Stacker enables neat stacking of good cartons at the top conveyor and defective cartons on a curved conveyor provided under the top conveyor.



Ultrasonic Double Sheet Detector

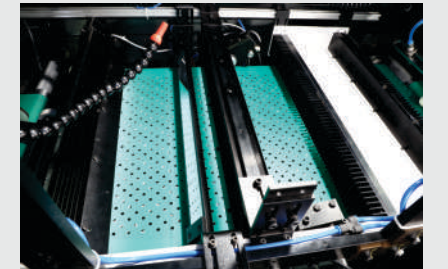
The Ultrasonic Double Sheet Detector of Autoprint's Checkmate 65 detects double sheets automatically and transfers them to reject bins.



Vacuum Belt

A Vacuum Belt with powerful suction is provided under the camera to hold cartons firmly during inspection.

Adjustable vacuum system based on the carton width we can Adjust the vacuum also. So that cartons holding in belt is to powerful.



Centralized Touch Screen Control Panel

The ergonomically placed operator controls of Autoprint Checkmate 65 have a touch panel and PLC for quick and easy set-up of various parameters. There are extra control panels provided at delivery accept and reject pile to control the entire machine operation from there.

