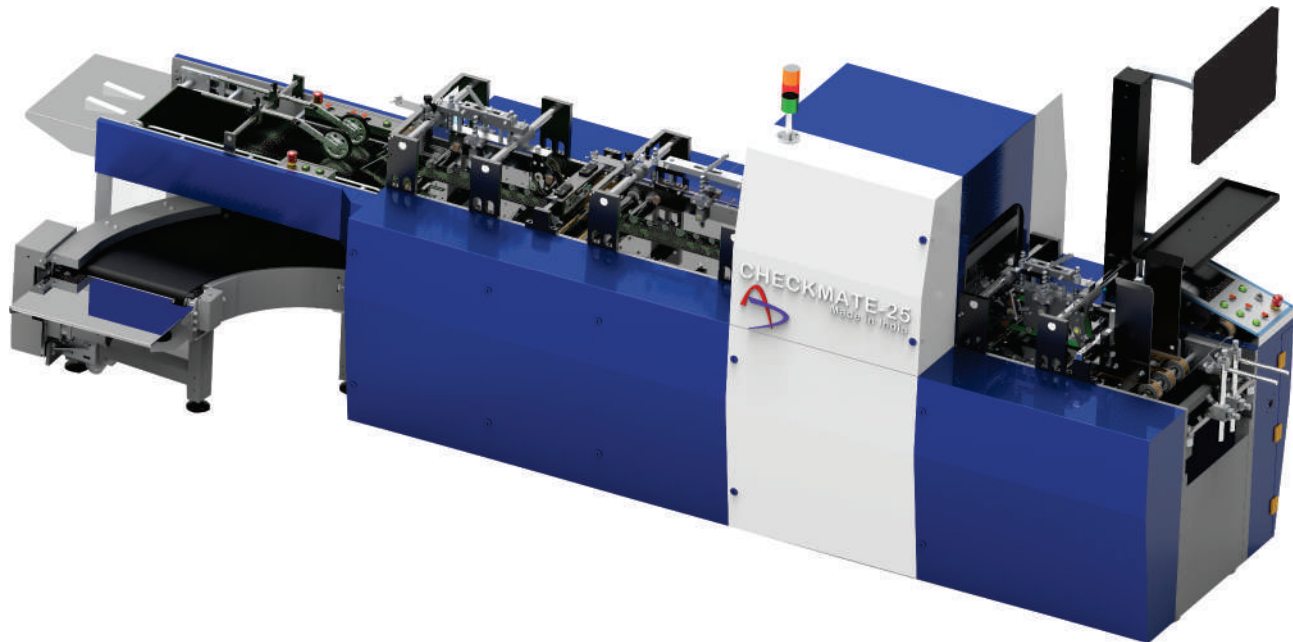


Technical Specification

|                          |                                                      |
|--------------------------|------------------------------------------------------|
| Maximum Carton Size      | 250 X 300 (W x L)                                    |
| Minimum Carton Size      | 100 X 100 mm (W x L)                                 |
| Paper Thickness          | 180 to 450 gsm                                       |
| Speed Max.               | 250 m/min.                                           |
| Productivity             | Upto 70,000 cartons/hr<br>(For 150 mm carton length) |
| Camera Resolution        | 0.13 mm                                              |
| Total Power              | 10.5 KW (14 HP)                                      |
| Overall Size (L X W X H) | 4750 X 1250 X 1600 mm                                |
| Weight                   | 1500 Kg (Approx.)                                    |



**AUTOPRINT MACHINERY MANUFACTURES PVT. LTD.**  
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Inspection System Powered by



315/A, 2nd Floor, 9th Main, 5th Block, Jayanagar, Bangalore - 560 041.  
Tel: +91 80 22448252/53, Fax: 080 - 22448253  
Email: sales@lucid-imaging.com Website: www.lucid-imaging.com

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 25  
Carton Inspection Machine**

**INSPECT | DETECT | SEGREGATE**



A Carton full of top-notch Features !

- Bottom feeding system with vibrator for trouble free feeding

Air jets are provided for removing dust/ fluff from cartons.

Ultrasonic double sheet detector to detect double sheets automatically and take them to reject bin

Vacuum belt with powerful suction under the camera for holding the carton firmly.

Camera 1 - 2K colour is a line scan colour camera for inspecting of printing defects.

Camera 2 - 2K monochrome to check foil defects.

Camera 3 - Bottom, 2K monochrome for checking presence of dead insects.

High speed fail proof pneumatic ejection system with air jets for segregating good and defective cartons separately.

Full tracking system is incorporated to track each and every carton to ensure the same carton is going to reject/accept delivery stacker
- Delivery stacker with servo control for stream stacking.

Curved conveyor for collecting rejected cartons without the chance to mix-up.

Air jets are provided for cleaning camera lens periodically to improve the image quality

Ergonomically placed operator control with touch panel and PLC for easy setup of various parameters Monitor for viewing good and reject cartons on the run.

Machine with rugged frame design

All operator touch areas, are with corrosion free stainless steel and hard chrome plated parts.

Online UPS system with auto power shutdown for computer, light and camera to improve the reliability of the parts

Reference scales are provided for easy setup of repeat jobs

Camera unit is independent of the machine and hence completely vibration free for excellent image quality
- Individual LED lighting for each camera with angular mirror for precise image of metpet cartons

High precision industrial encoder is used with stable mounting for getting excellent quality and accuracy of scanned images

Modular design of guards for easy accessibility

Single wide bottom belt is provided for faster make ready Acoustic enclosures are provided in guards for reduced noise level

Bottom camera is provided with dust exhaust system for preventing false rejection due to dust floating in the air

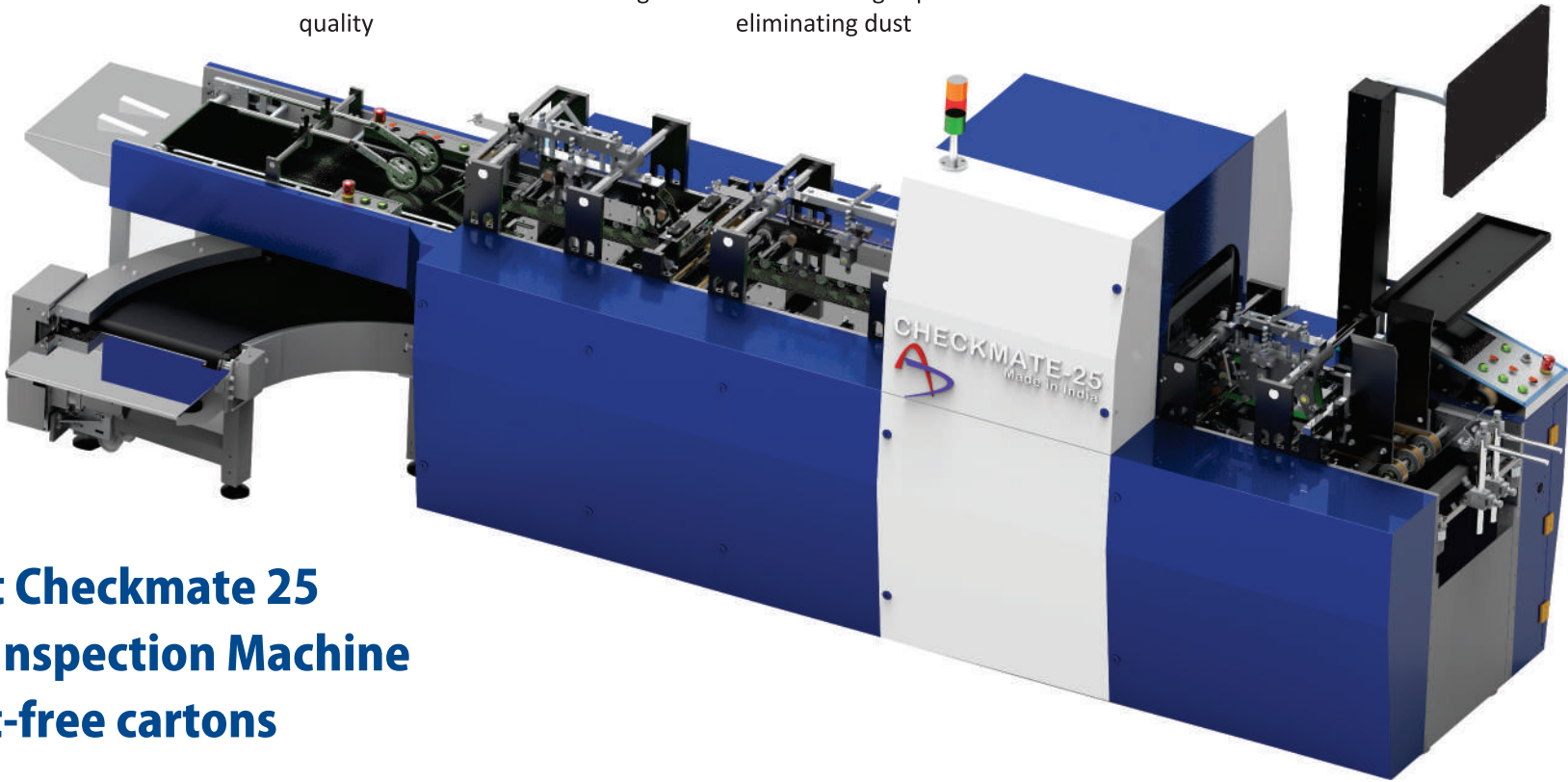
Powerful main drive with timer belt for all drive shafts for eliminating slip and enhancing efficiency of the machine

Machine is completely designed to run on sealed bearings and hence it is maintenance free

Cooling system for computer and also for camera area

Brush and high speed nozzles for eliminating dust

Autoprint Checkmate 25  
A Carton Inspection Machine  
for defect-free cartons



Software

- User friendly interface allows easy configuration of software.

Easy model turning during inspection.

Different tolerance level can be set in different regions to ensure only critical defects are rejected.

Reject image viewer for defect visualization.

Special scratch and cluster detection.

Archive all defective print images into the database.

Powerful software algorithm permits sensitive defect detection while maintaining high yield.
- Region wise online defect statistical report generation for corrective actions.

Complete integration with the mechanicals of the machine (mistake proof inspection)

Fail proof carton tracking system so that a reject carton should never go to accept bin

Automatic alignment of image with respect to key register points to adjust for small tilt 10 levels of tolerance available for setting up the master image for inspection

Powerful computer processor & software with high storage capacity to handle huge volume of images and data, backed by best in industry after sales support
- Trouble shooting by remote access through Team viewer for both machine and software

Process wise statistical inspection reports with sorting provision of customer, date, job, month etc and also additional reports can be provided based on customer requirement

All camera images can be viewed simultaneously on the run

Quick job changeover

Images and defects can be learned if required on the run

Up wise inspection is provided to improve the yield

Optional

- Antistatic unit at feeder
- Full guards
- Carton counter
- Delivery monitor

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 |
|                           |                           |                                       |                        |                               |