



CIMP: Cartridge Inspect, mark Pack Machine

A fully automatic stand alone **LASER** marking and packing machine
LIVE Cartridges

Features:

- 300 cartridges per min
- Vision inspection for colour coded cartridges
- 10 watt air-cooled Yb Fibre Diode pump laser
- Final Inline Box assy, fill weigh and seal for total security
- Full diagnostic history for "pass & fail" and process verification

The **CIMP: Cartridge Inspection, Marking and Packing machine**, is sub divided into 4 modules,

Cartridges feeder

A hopper fed dual track vibratory bowl 3 off, orientates and feeds the cartridges into 6 off gravity fed stacker / ejector

Inspection station

Vision camera, to check colour of cartridge, wrong colour is rejected .

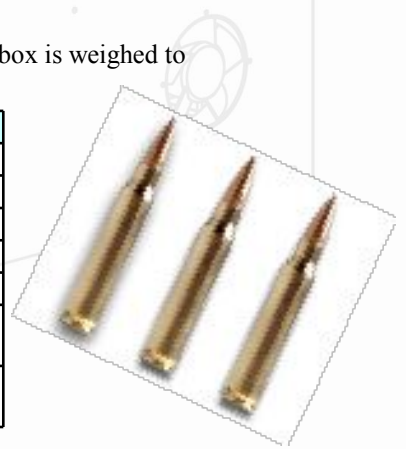
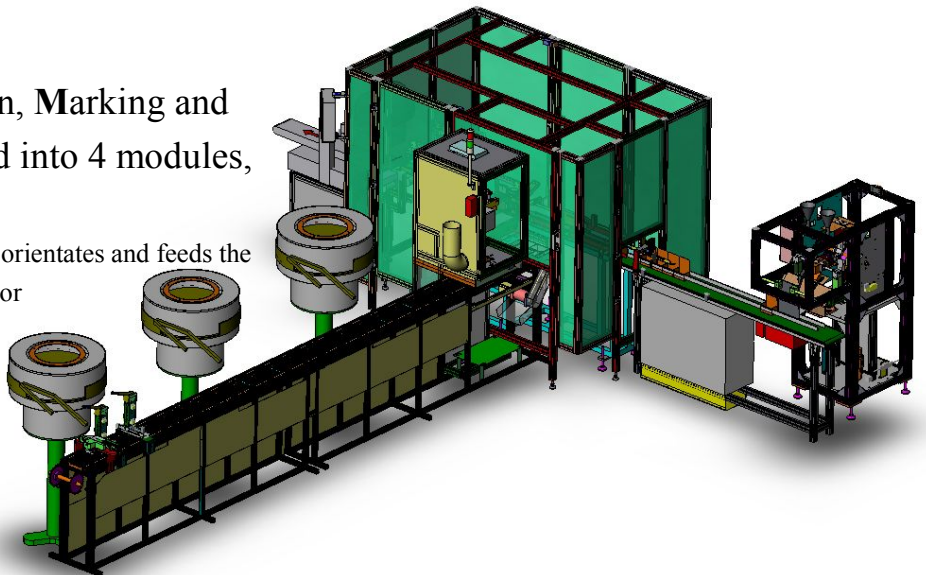
Laser marking station

Cartridges individually marked with a Diode laser, up to 900 characters per sec.

with a working area 157mm x 157mm with focal length of 254mm giving a spot diameter of 25µm. A camera is fitted to verify marking is positive.

Packing Station (sealed)

Passed Cartridges are then of loaded and transferred into boxes each containing 50 rounds. Each box is weighed to check quantity and sealed.



Machine general specifications	
Cycle time per Cartridge	<0.2 seconds
Number of vibratory bowls	3 (each with dual track)
Number of indexing tracks	10 track, each with continual process monitoring.
Indexing Speed position	200mm per sec. Positional 0.1mm
Laser chamber	10 watt air-cooled Yb Fibre Diode pump laser 1065nm wave length
Security	Final marking inspection, final box weight check Off loading, boxing and sealing in enclosed area for security
Diagnostics	diagnostic "one cycle" run to check all sensors and actuators are functioning, with full error history

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