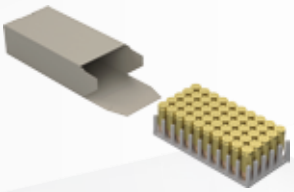
ARGE ROBOTİK

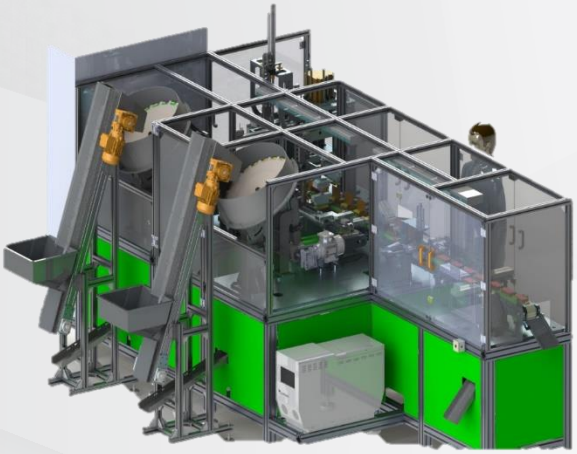
AMMUNITION ASSEMBLY LINE

VARNISHING MACHINE

VISUAL INSPECTION STACKER MACHINE



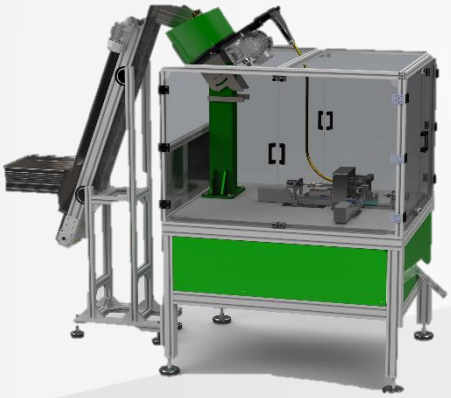
PACKING MACHINE



ARGE ROBOTİK

CASE TRIMMING MACHINE

CASE TRIMMING AND GROOVING MACHINE



FLASH HOLE DRILLING

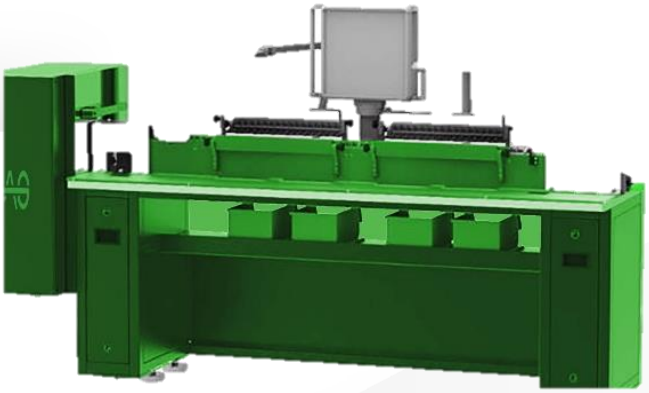
ARGE ROBOTİK

PRIMER INSERTING MACHINE

AMMUNITION LOADING MACHINE

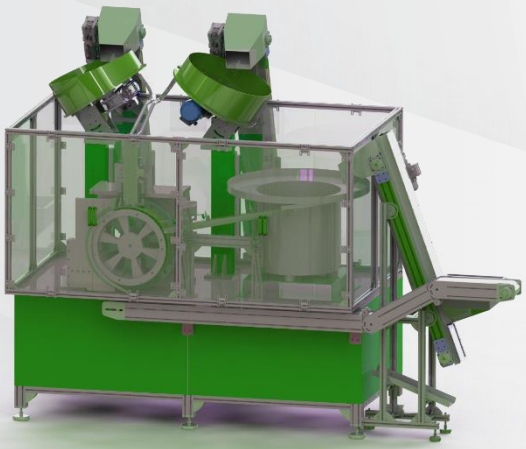
ARGE ROBOTİK

VISUAL INSPECTION MACHINE



OPTICAL INSPECTION MACHINE

BELT LINKING MACHINE



Sealing Machine

The primer pocket and case sealing machine utilize a sophisticated system, integrating servo motor and pneumatic controls. This system facilitates the injection of sealing liquid into the primer pocket and case, which are positioned on the feeding conveyor by the operator within a rotational feeder.

The operator feeds the casings onto the feeding conveyor. The conveyor moves upwards and discharges the loaded casings into the rotational feeder. The fullness of the rotational feeder is checked by the sensor inside the rotational feeder. With the rotation of the rotational feeder, the casings go up and fall into the ring lines. Sensors in the ring lines check the fullness of the line. If the line is filled, the line is closed with the help of blowers. The casings passing through the ring line descend to the feeder actuator. The feeder actuator brings the casings to the position suitable for lacquering. The casings in the appropriate position are brought to the position to be pushed into the rotating tambour by the casing slider piston and while in this position, the casing inserter piston pushes the casings into the rotating tambour. After the casings are inserted into the rotating tambour, the casing sensors check the presence of the casings, and the tambour rotates 1 turn. Then sealing liquid is injected into the primer pocket and case mouth of the casings. After completing the round, the casings are pushed down towards the exit conveyor with the help of the casing unloader piston. Fans on the top of the conveyor allow the sealing liquid injected into the casings to dry. The dried casings fall from the end of the exit conveyor.

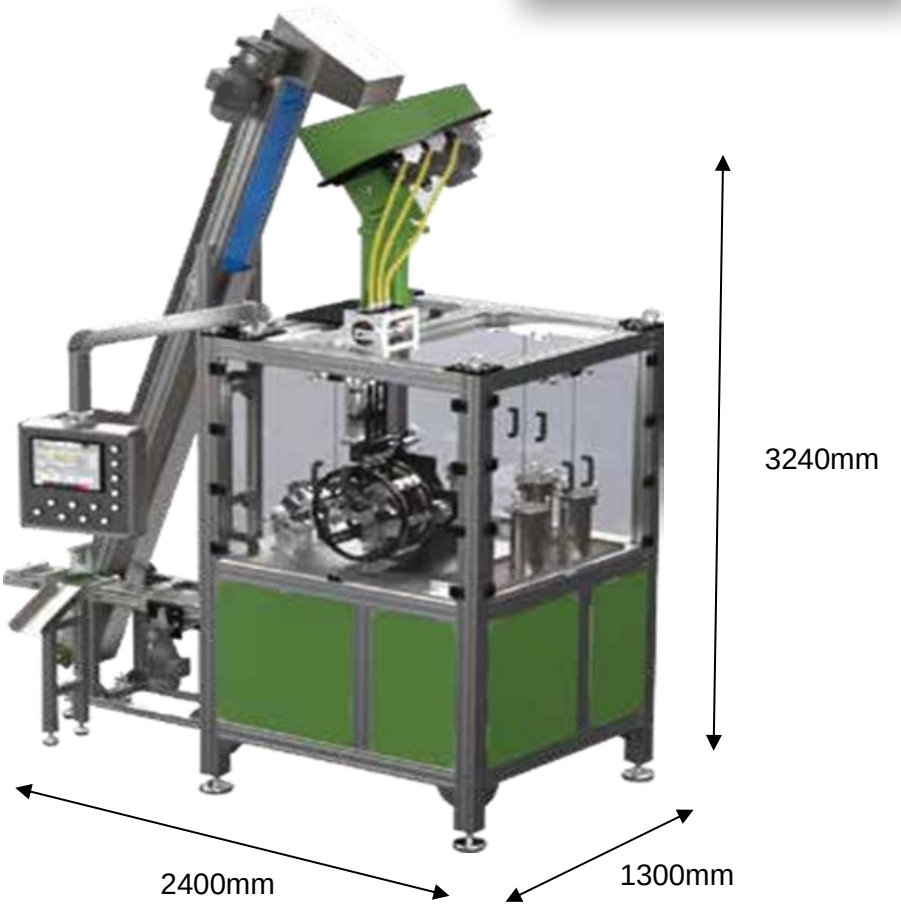
Installed Power	3 kW
Air Consumption	6 bar
Lacquering Tank Quantity	9 x 19mm, 5.56mm, 7.62mm: 6 pcs 12.7mm: 4pcs
Suitable For	9 x 19 mm, 5.56 mm, 7.62 mm, 12.7 mm

Production Speed

Description	Capacity (Quantity/Minute)
9 x 19 mm casing	180 pcs
5.56 x 45 mm casing	150 pcs
7.62 x 51 mm casing	150 pcs
12.7 x 99 mm casing	60 pcs

TECHNICAL SPECIFICATIONS

- Perfect sealant.
- Does not contaminate on the casing.
- Conveyor for feeding.
- Easy cleaning dosing equipment.
- Separate tanks for sealant.
- Seal primer pocket and case mouth in same time.
- Easy and low-cost maintenance.



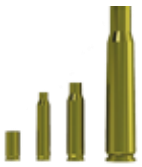
Case Trimming Machine

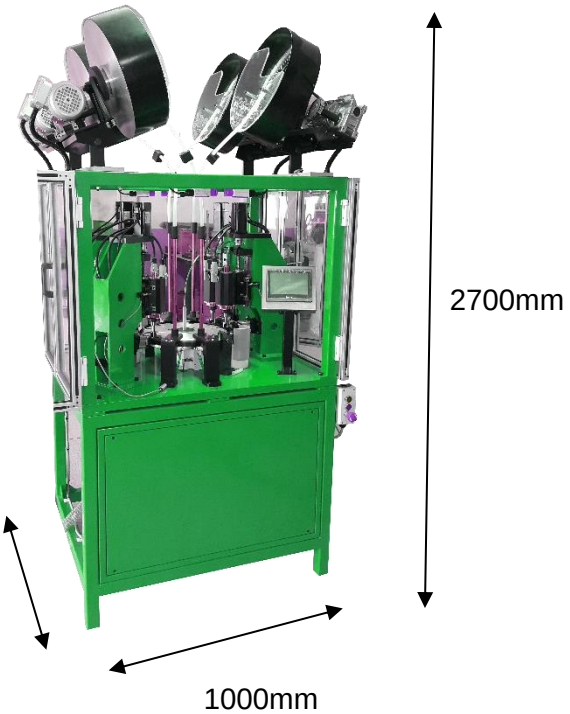
An ammo case trimming machine is a specialized tool used in the production of ammunition. It is designed to precisely trim and resize cartridge cases to meet specific length and dimension requirements. This machine helps ensure that the cartridge cases are uniform and within tolerance, improving ammunition consistency and reliability. Ammo case trimming machines are particularly essential for reloaders and ammunition manufacturers who want to recycle and reuse spent cartridge cases or ensure that new casings meet exacting specifications. They offer efficiency and precision in case preparation, contributing to the overall quality of the ammunition produced.

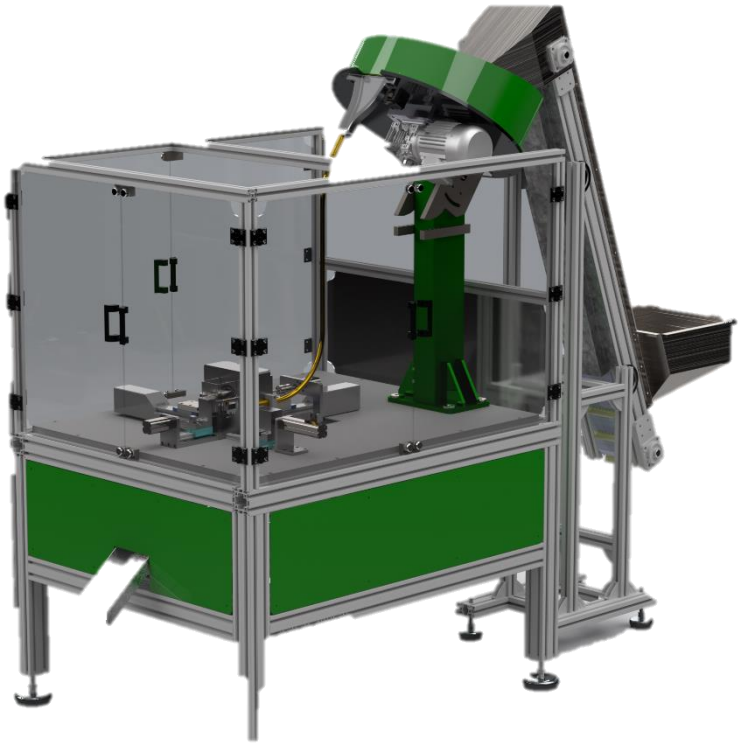
Installed Power	4 kW
Air Consumption	6 bar
Fedder Quantity	9 x 19mm: 4 pcs ,5.56mm, 7.62mm: 2 pcs 12.7mm: 1pcs
Suitable For	9 x 19 mm, 5.56 mm, 7.62 mm, 12.7 mm

Productivity

Description	Capacity (Quantity/Minute)
9 x 19 mm case	60 pcs-240 pcs
5.56 x 45 mm case	60 pcs -240 pcs
7.62 x 51 mm case	60 pcs -240 pcs
12.7 x 99 mm case	60 pcs







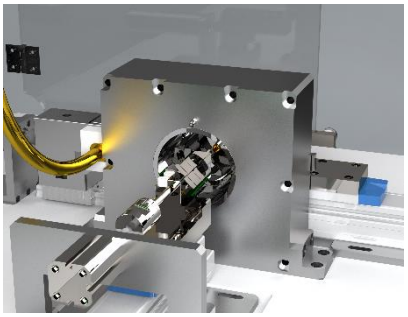
Trimming and grooving Machine

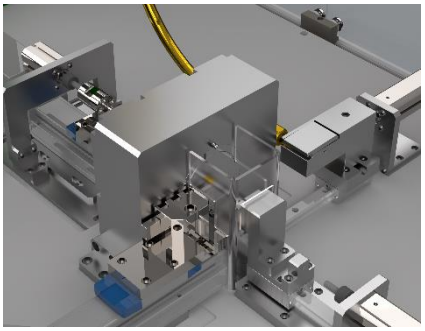
An "ammunition case trimming and grooving machine" is a specialized tool vital in ammunition production. This equipment precisely trims and grooves ammunition casings, ensuring they meet specific size and functional criteria. In trimming, the machine cuts casing edges to achieve precise dimensions, while grooving involves creating recessed cuts for structural integrity or specialized features. These machines prioritize high precision to maintain consistency in casing dimensions, contributing to the efficiency of ammunition production by automating tasks and ensuring accuracy. Given their role in maintaining strict quality control, these machines are indispensable in the ammunition industry, adapting to various ammunition types and specifications.

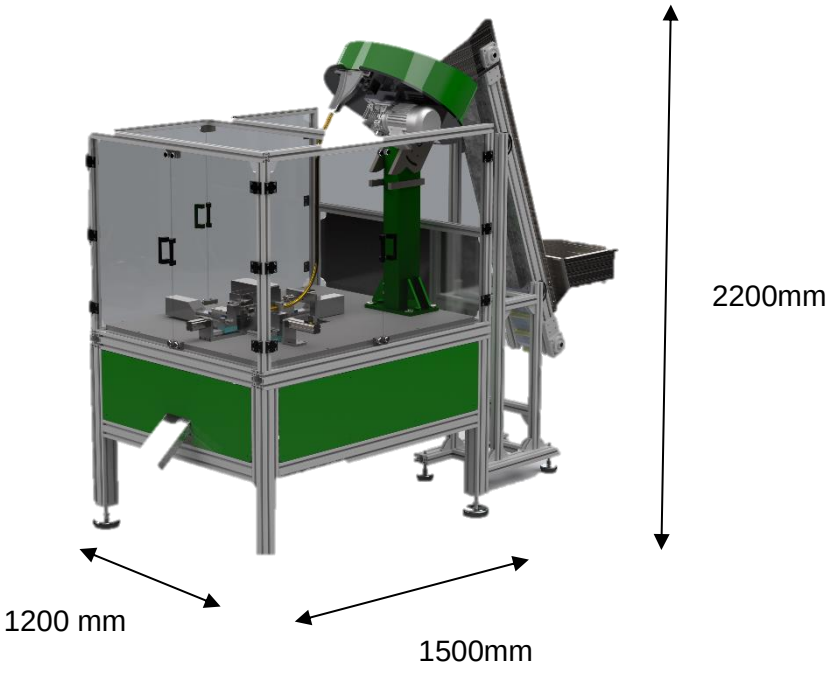
Installed Power	3 kW
Air Consumption	6 bar
Caliber Ranges	9 x 19mm, 5.56mm, 7.62mm: 12.7mm

Productivity

Description	Quantity per minutes
9 x 19 mm case	60 pcs
5.56 x 45 mm case	60 pcs
7.62 x 51 mm case	60 pcs
12.7 x 99 mm case	30 pcs







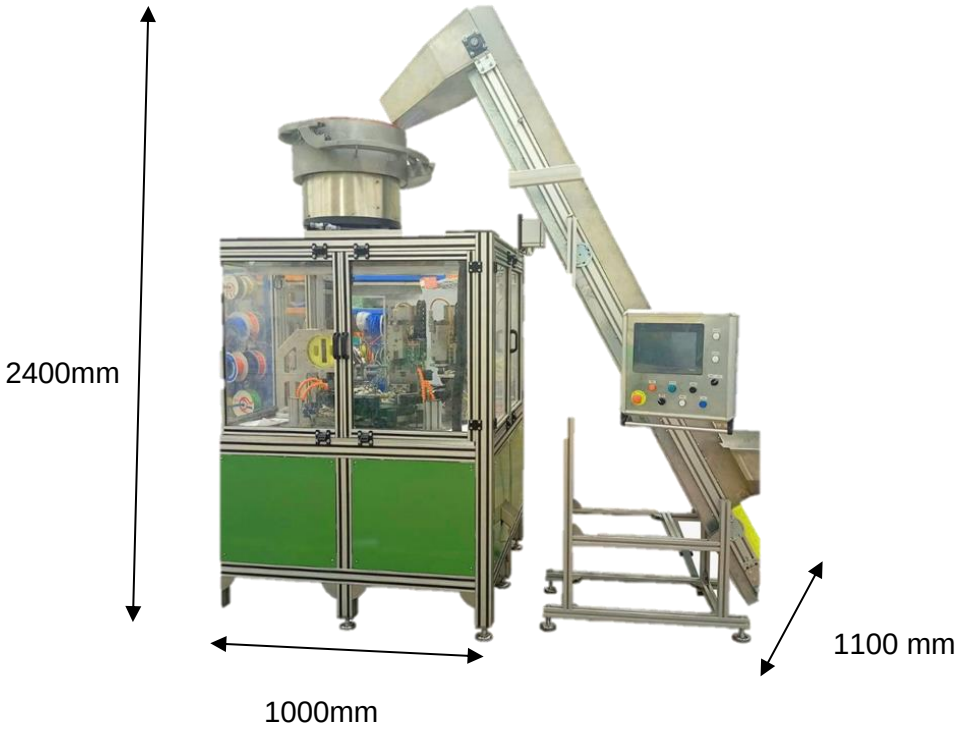
Flash Hole Driling Machine

A "flash hole drilling machine" is a specialized piece of equipment used in the manufacturing of ammunition. The flash hole is a critical component in the base of a cartridge case, serving as a pathway for ignition during the firing process. The machine is designed to precisely drill flash holes in cartridge cases, ensuring consistency and accuracy.

Installed Power	4 kW
Air Consumption	6 bar
Suitable For	12.7mmx99mm, 12.7mmx108mm, 14.5mmx114mm

Productivity

Description	Quantity per minutes
12.7x 99 mm case	25 pcs
12.7 x 108 mm case	25 pcs
14.5 x 114 mm case	25 pcs



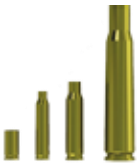
Priming Machine

An ammunition priming machine is a specialized piece of equipment used in the manufacturing of ammunition. It is designed to automatically and accurately insert primers into cartridge cases or shotgun shells. These machines play a critical role in ensuring the safety and reliability of ammunition by precisely seating primers. They are equipped with features that align, place, and secure primers with precision, ensuring consistent ignition and performance. Ammunition priming machines are available in various models to accommodate different primer sizes, calibers, and production volumes, making them essential tools for ammunition manufacturers seeking efficiency, consistency, and quality in their production processes

Installed Power	4 kW
Air Consumption	6 bar
Suitable For	9 x 19 mm, 5.56 mm, 7.62 mm, 12.7 mm

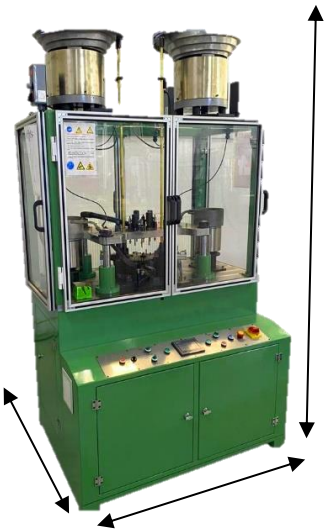
Productivity

Description	Quantity per minutes
9 x 19 mm case	60 pcs - 120 pcs
5.56 x 45 mm case	60 pcs - 120 pcs
7.62 x 51 mm case	60 pcs - 120 pcs
12.7 x 99 mm case	60 pcs



TECHNICAL SPECIFICATIONS

- Easy maintenance.
- Precise primer alignment and consistent seating depth.
- User-friendly interfaces.
- Quality control and inspection.
- Primer Depth control
- Ring type primer insertion.



2400mm

1100 mm

1000mm

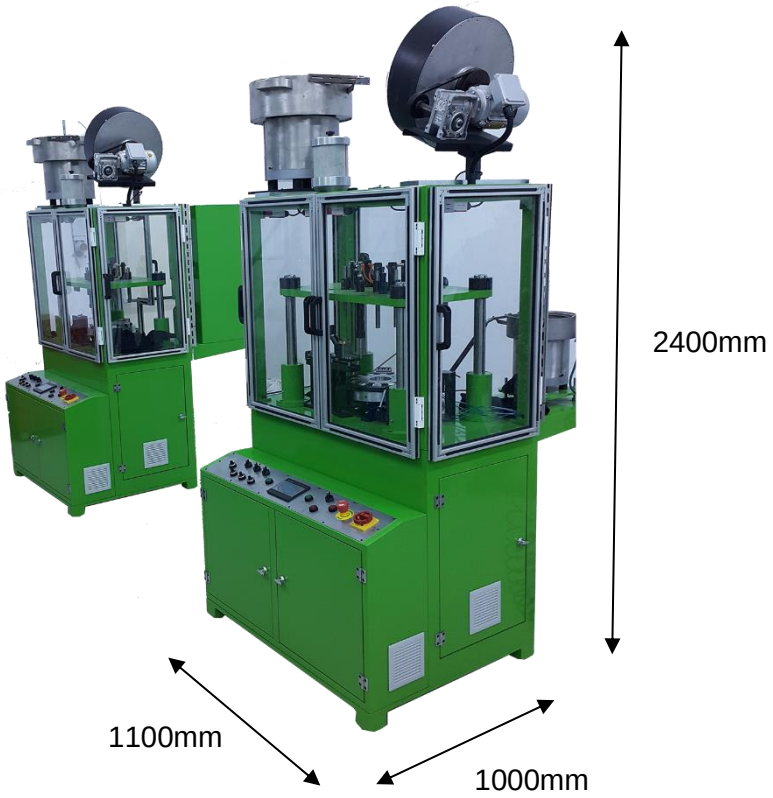
Loading&Assembly Machine

An ammunition loading machine is a specialized piece of equipment used in the production of ammunition. This machine automates the process of assembling ammunition rounds by combining components such as cartridge cases, projectiles (bullets), primers, and powder charges. It efficiently and accurately loads these components into ammunition casings, ensuring uniformity and precision in the manufacturing process. Ammunition loading machines are available in various configurations to accommodate different types of ammunition, including handgun, rifle, or shotgun rounds, and they are a vital tool for ammunition manufacturers looking to enhance productivity while maintaining the quality and consistency of their products.

Installed Power	4 kW
Air Consumption	6 bar
Suitable For	9 x 19 mm, 5.56 mm, 7.62 mm, 12.7 mm

Productivity

Description	Quantity per minutes
9 x 19 mm case	60 pcs - 120 pcs
5.56 x 45 mm case	60 pcs - 120 pcs
7.62 x 51 mm case	60 pcs - 120 pcs
12.7 x 99 mm case	60 pcs



Visual Inspection Machine

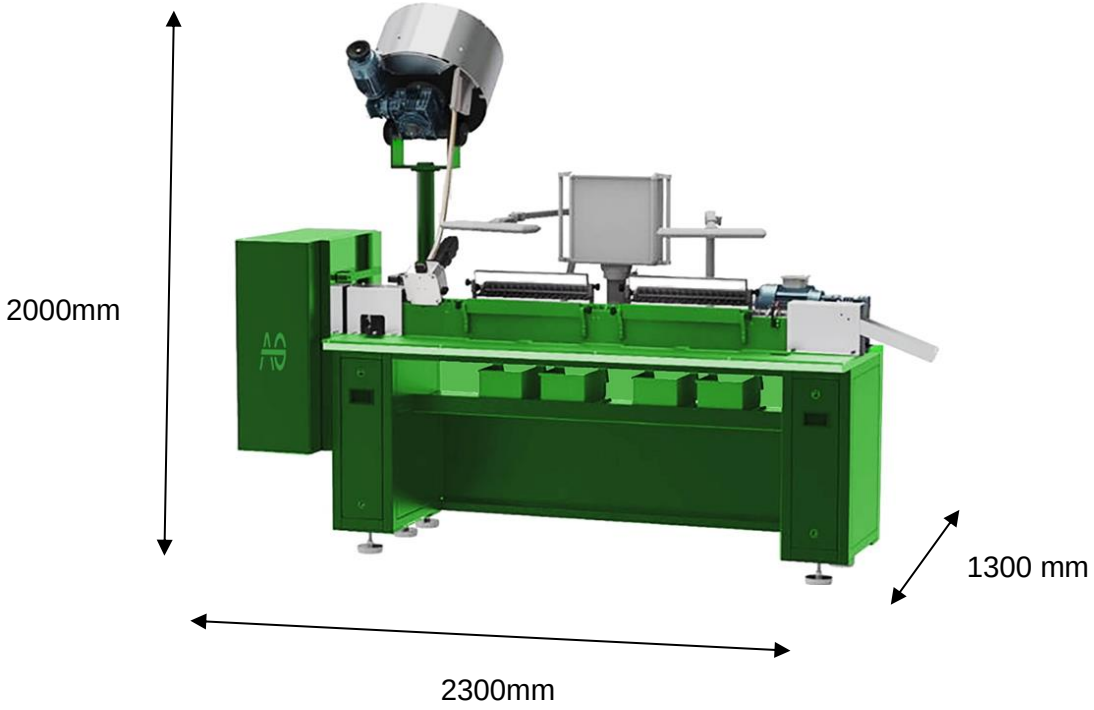
The machine is designed for thorough visual inspection of ammunition components, including casings, and overall assembly.

Define the types of visual defects or characteristics the machine is capable of detecting, such as cracks, deformities, or irregularities. The operator identifies and rejects defective components and cartridges with the assistance of mirrors integrated into the machine.

Installed Power	2.7 kW
Air Consumption	6 bar
Suitable For	9 x 19 mm, 5.56 mm, 7.62 mm, 12.7 mm
Control system	Siemens PLC

Productivity

Description	Single Feeder/Double Feeder
9 x 19 mm case-cartridg	120 pcs
5.56 x 45 mm case-cartridge	120 pcs
7.62 x 51 mm case-cartridge	120 pcs
12.7 x 99 mm case-cartridge	60 pcs



Optical Inspection Machine

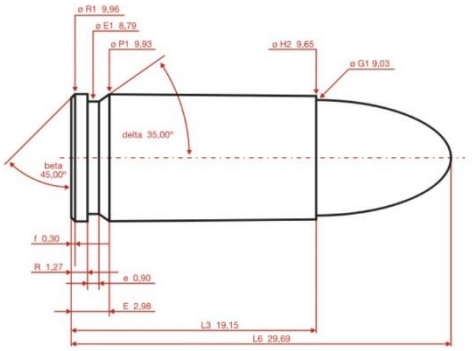
An ammunition optical inspection machine utilizes advanced optical technologies, It conducts visual inspections, precise dimensional analyses, and surface defect detection, using optical sensors to guarantee each round meets specified tolerances, it automatically sorts and rejects rounds based on inspection results, contributing to efficient production. Equipped with data logging and an intuitive user interface, the machine records results for quality control and compliance, playing a crucial role in identifying and eliminating defects before ammunition reaches end-users.

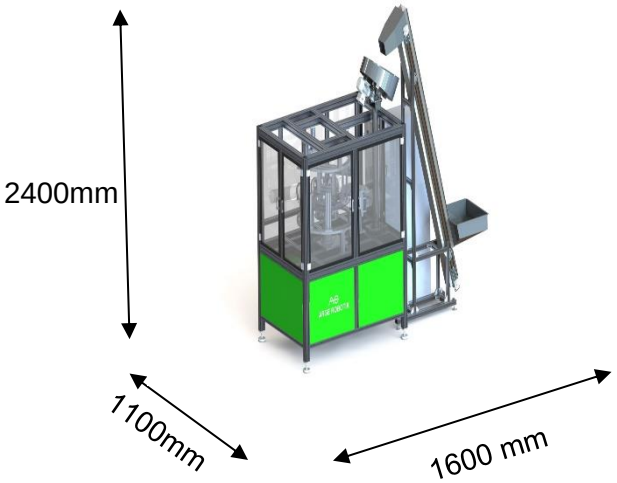
Installed Power	3 kW
Air Consumption	6 bar
Inspection	Cases&Cartridges
Suitable For	9 x 19 mm, 5.56 mm, 7.62 mm, 12.7 mm
Accuracy	±50µ

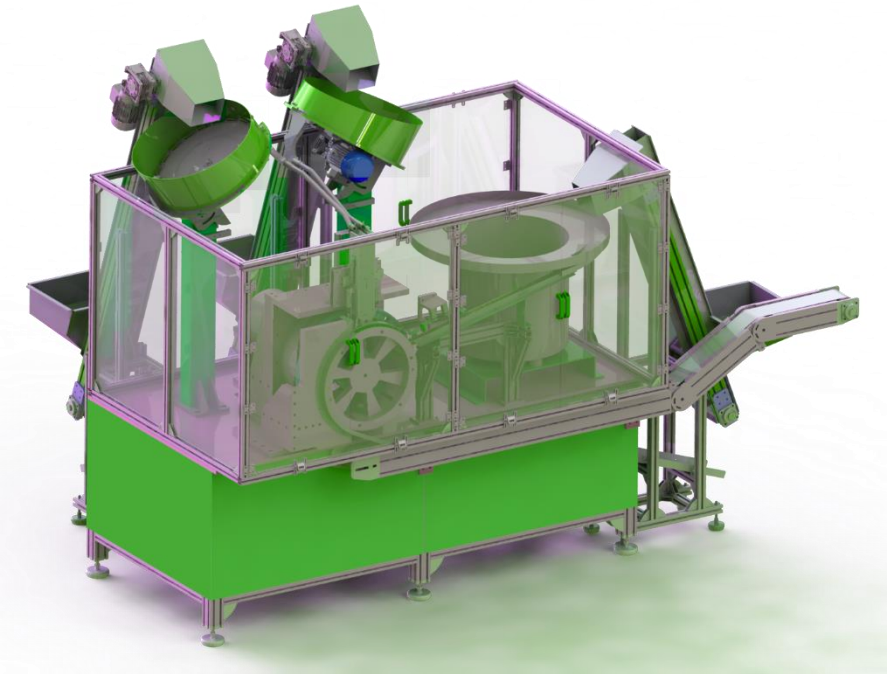
Productivity

Description	Quantity/Minute
9 x 19 mm case-Cartridge	250 pcs
5.56 x 45 mm case-Cartridge	200 pcs
7.62 x 51 mm case-Cartridge	200 pcs
12.7 x 99 mm case-Cartridge	120 pcs

- Full Form,
- Cartridge Length,
- Cartridge Diameters,
- Surface Quality





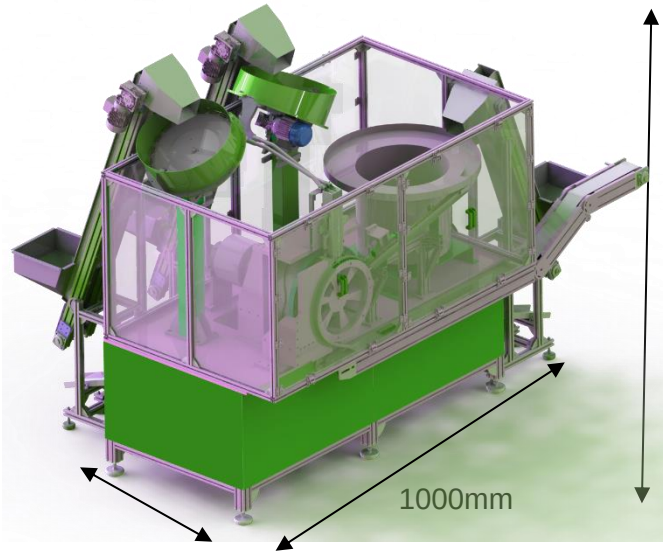


Belt Linking Machine

This machine is designed to link together individual rounds or cartridges into a continuous belt, creating a feed mechanism that allows for efficient loading and firing in firearms. The machine comprises two ammunition feeders—one for tracers and the other for cartridges. Additionally, a separate feeder with a hopper conveyor is integrated into the machine for efficient link feeding.

Productivity

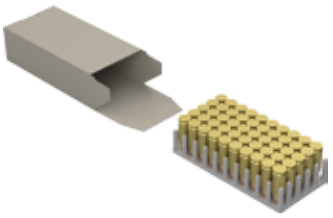
Description	Quantity/Minute
5.56 x 45 mm case	120 pcs
7.62 x 51 mm case	120 pcs
12.7 x 99 mm case	60 pcs



Visual Inspection Stacker Machine

Ammunition Visual Inspection / Stacker Machine This machine has been specifically engineered for the purpose of packaging 9x19mm pistol cartridges through the stacking of 50 cartridges into each block. The apparatus systematically organizes these 50 cartridges into plastic trays, which are subject to **visual inspection** by the operator stationed in front of the machine. Cartridges are advanced along the conveyor through a rotating mechanism. The operator is responsible for manually segregating any cartridges that are found to be defective during the inspection process. Furthermore, these operators are tasked with the placement of fully loaded trays into cardboard packages. It is worth noting that our machine is fully compliant with the safety requirements stipulated under ATEX Zone 2 regulations.

Installed Power	2 kW
Air Consumption	350 lt / min
Ammo Tray Capacity	50 pcs
Production Speed	110 pcs / min
Suitable For	9 x 19 mm Carteidge

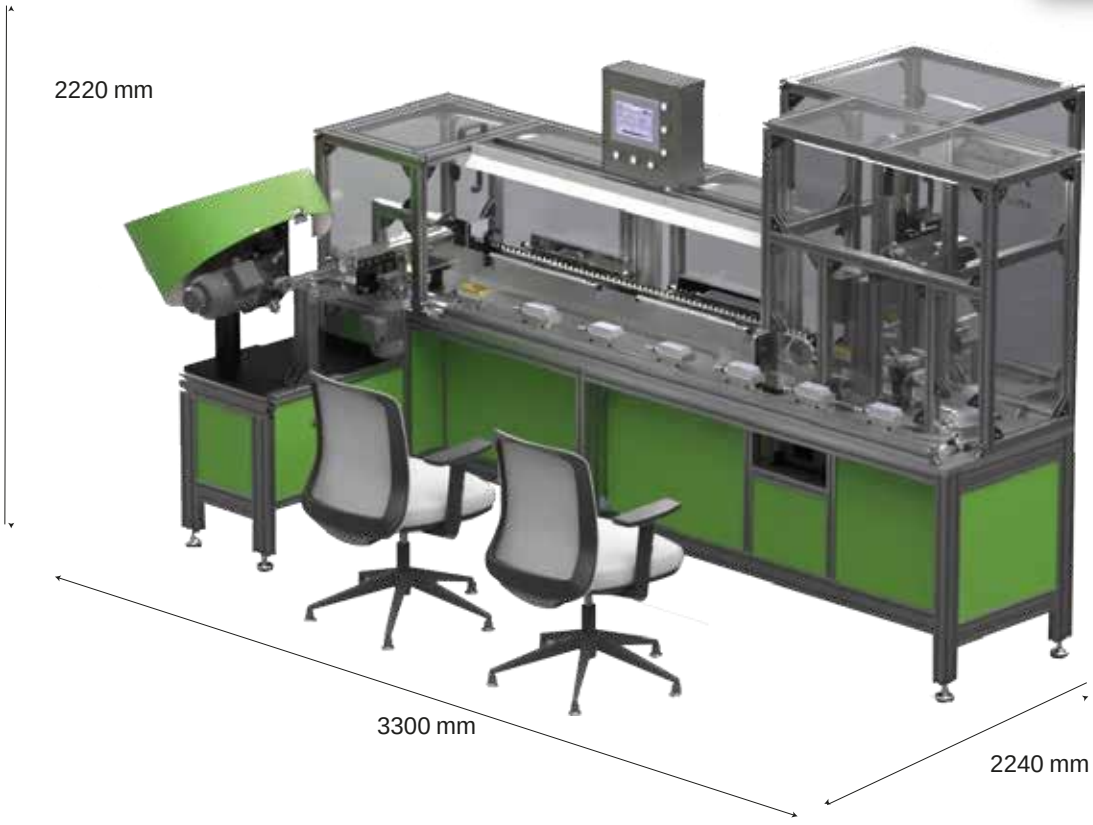


Productivity

Description	Capacity (Quantity/Minute)	Quantity in Trays
9 x 19 mm Cartridge	110-pcs	50

TECHNICAL SPECIFICATIONS

- The ammo stacker machine is a servo controlled system The
- Cartridges that pass the visual inspection arrive at the stacking area.
- Visual quality control includede in the machine.

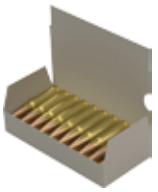


Packing Machine

The ammunition packing machine is a servo motor and pneumatically controlled system which the cartridges placed by the operator in the feeding conveyors are automatically packed with cartons placed by the operator in the box form unit.

The cartons placed flat on the box form unit of the machine are formed into boxes here and dropped onto the main conveyor. The cartridges dropped into the feeding conveyors pass through the cartridge stairs and are placed on the cartridge conveyors. From here, they are pushed to the cartridge taking position with the help of a piston. The cartridges lined up in the cartridge taking positions are picked up by the ammunition carrier arms and dropped into the box waiting on the conveyor. The boxes are glued and closed and then delivered to the product check unit. In this unit, the boxes are weighed and underfilled boxes are discharged in this unit. Boxes with correct weight are pushed back to the main conveyor and discharged at the end of the conveyor.

Installed Power	6 kW
Maximu Air Consumption	2000 lt / min
Ammo Box Capacity	5.56 mm : 30 pcs 7.62 mm : 20 pcs
Suitable For	5.56 mm, 7.62 mm, 12.7mm



Production Speed

Description	Capacity (Quantity/Minute)	Quantity in Package
5.56 x 45 mm Caertridge	200- pcs	30
7.62 x 51 mm Caertridge	180 - pcs	20
7.62 x 39 mm Caertridge	180- pcs	20