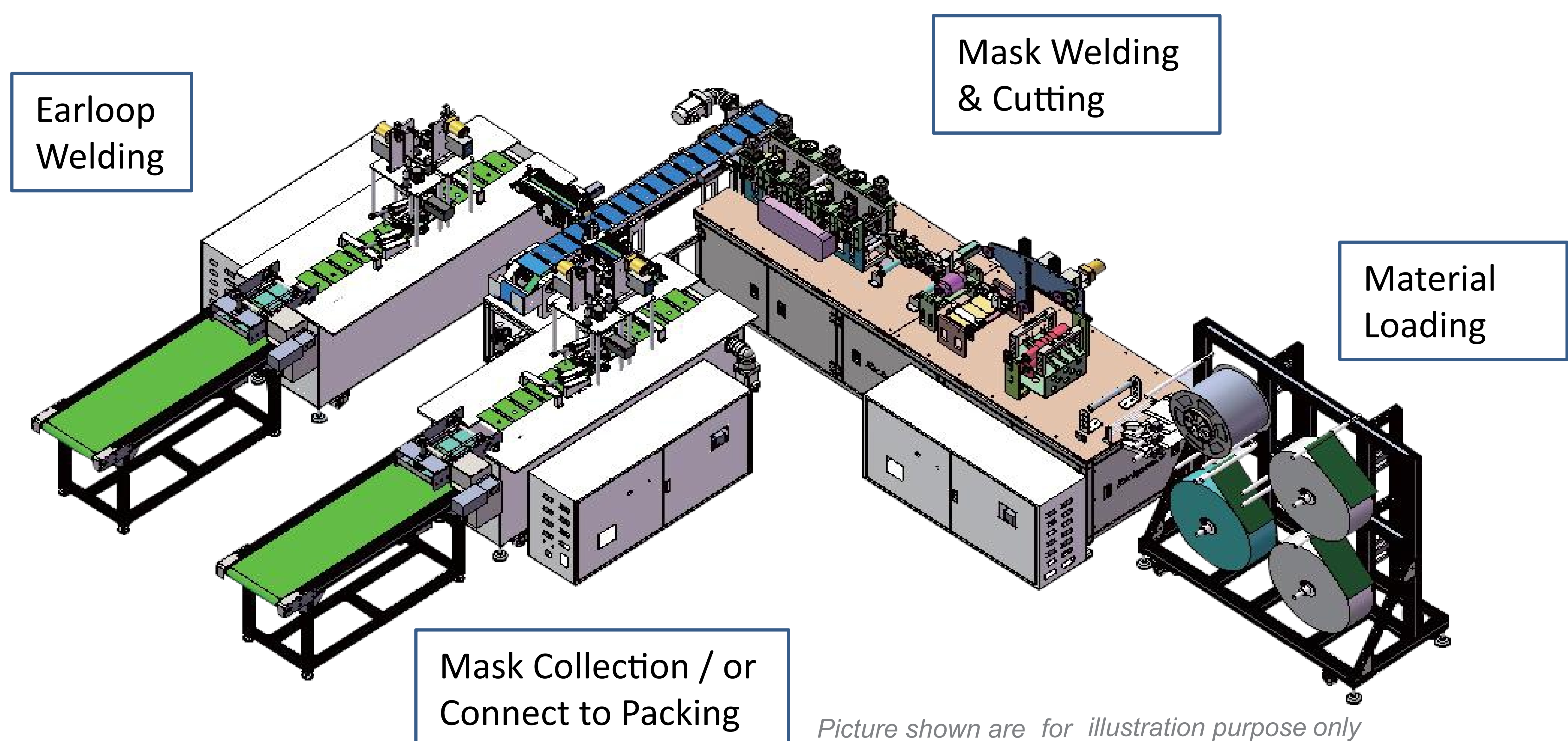


RIGO Surgical Mask Automatic Production Line



Application:

The production line is designed to produce 3 layers Surgical Mask.

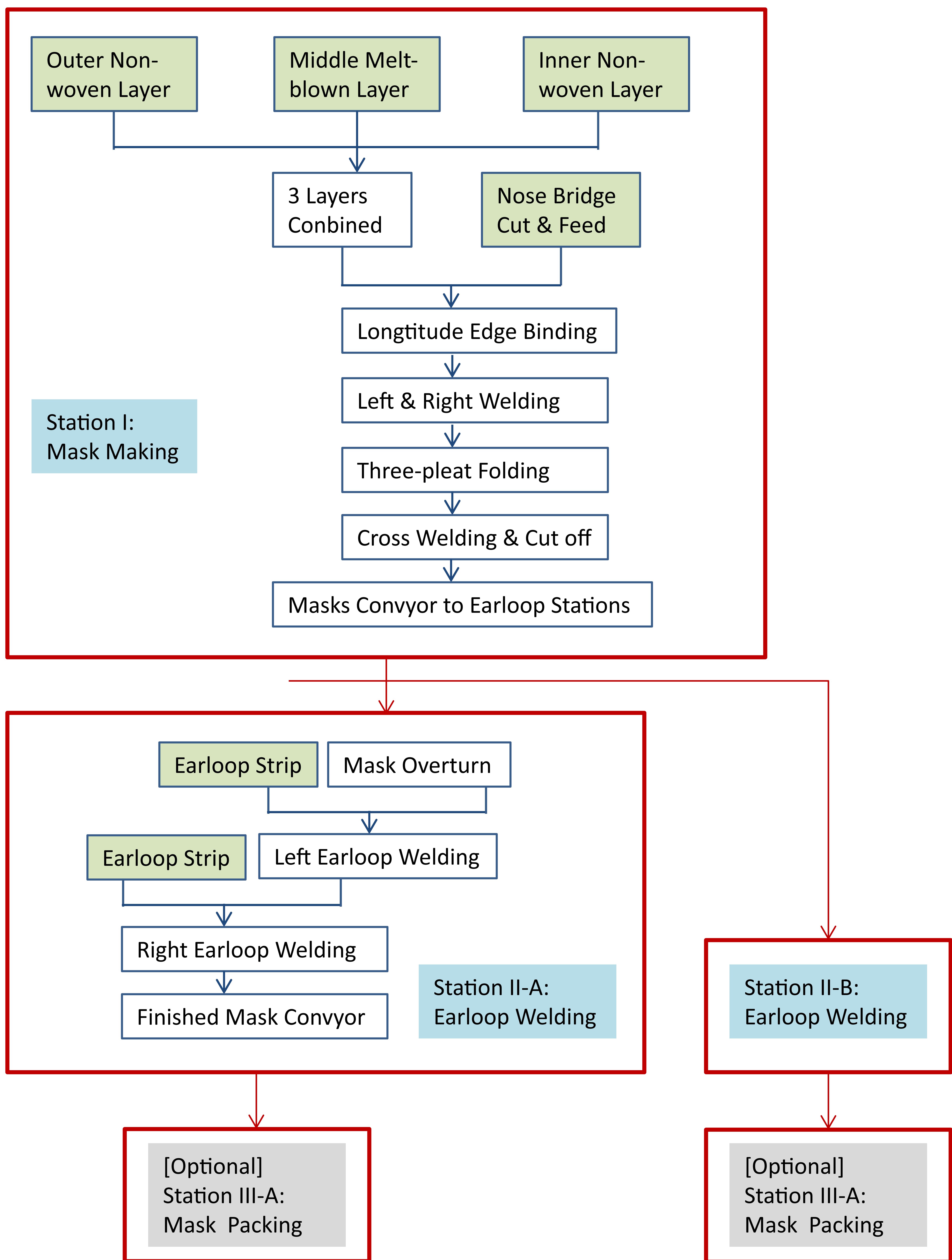
The surgical mask is the most commonly worn cheap and disposable masks, will limit the chance of inhaling large, infectious particles circulating near the face.



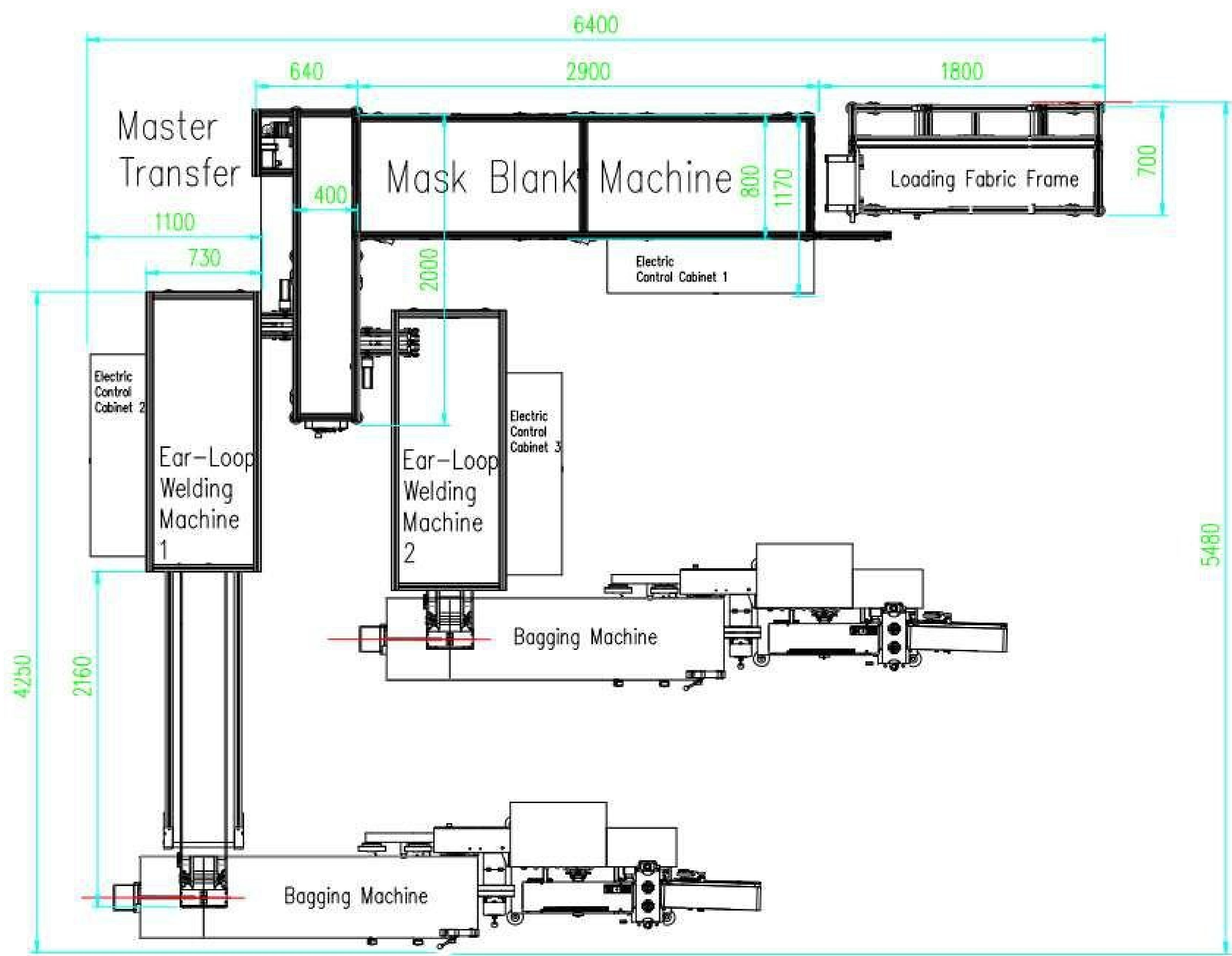
Main Features:

- Production adopted the 1-to-2 design, one set of mask making station connects two sets of earloop welding station.
- Auto-align three material rolls to be feed in machine, the Outer, Filter and Middle layers.
- Automatically fold and make mask pleats, which offer more room when wearing.
- Continuously welding the both side of 3 layers of material together by ultrasonic welding rollers, then cut into mask pieces.
- Nose-bridge can be integrated into mask with auto feeding, cutting and ultrasonic welding.
- Distribute the mask panels to welding stations separately, with two earloop welding stations working at full speed to reach the higher productivity.
- Cut Earloop strip and fix to mask by ultrasonic welding automatically.
- Collect finished masks from the conveyors
- [Optional] Stack up finished mask on conveyor as per the designed number then send into Packing machine to pack masks automatically.

Working process of Surgical Mask Production Line:



Layout of RIGO Automatic Face Mask Production Line



Installation Area: 6400x54800mm

Parameter & Configuration :

Mask Type :	Disposable Medical Mask General Surgical Mask	Servo Motor	PANASONIC/ SCHNEIDER
Specification	175mm x 95mm	Control System	RIGO
Speed	100pcs/min	Ultrasonic Generator	RIGO 220V,20kHz,1.5kW
Material	PP Nonwoven Fiber/ Meltbrown Fiber/	Sensor	OMRON/SICK
Layer Quantity	3 Layers	Pneumatic Component	SMC/FESTO
Processing Mode	Ultrasonic Welding	Belt	SAMSUNG/ BANDO
Air pressure	0.6MPa	Main Structure	Assembly with welded steel & aluminium profiles
Power	10 KW	Bearing	NSK
Voltage	220V/50HZ	Ball Screw	HIWIN
Area	5000mm x 7000mm X 1800mm	Safty Device	SICK

RIGO Automatic Packing Machine



Application:

The Packing Machine is designed for automatic bagging operation for various mask. Connect to the automatic mask line or use as an independent packing machine.

Suitable for heated sealing film PVC, BOPP, OPP, CPP, PET aluminized film, aluminum-plastic film, paper film, paper glue and other single-layer or multi-layers heated sealing dialyzable material etc.

Main Features:

- Three-servo motor control system, which can automatically set the bag length (within 400mm) to achieve specified length packaging;
- With its own anti-air bag, it can automatically identify the material position by detecting the product's base point, machine stops when the material is ran out and starts when there is material.
- Human-machine interface, parameter setting is convenient and easy, multi-specification products parameters can be stored and choose according to products sizes.
- Fault self-diagnosis function, clear fault and reset in one step.
- High-sensitivity photoelectric eye color mark tracking, digitally input sealing and cutting position, making sealing and cutting position more accurate.
- Independent PID control of temperature, suitable for various packaging materials.
- Positioning stop function, material won't stick on the blade, no waste of packaging films.
- Minimum complexity of the transmission system, stable and easy to maintain.
- All controls are realized by programs, convenient for function adjustment and technology upgrading, and meets intelligent operation.

Parameter & Configuration:

Length of Packaging Bags	≤ 400mm
Width of Packaging Bags	100-165mm
Product Height	Max. 55mm
Film length	Max. 360mm
Film roll diameter	Max. 320mm
Package speed	40-230bags/min (support 1-20pcs/bag)
Power supply	220V, 50/60Hz, 2.4kW
Machine dimension	4050mm×750mm×1450mm
Machine weight	≈300kg

About Surgical Mask:

The production line is for produce 3 layers surgical mask, here is the mask specification:

