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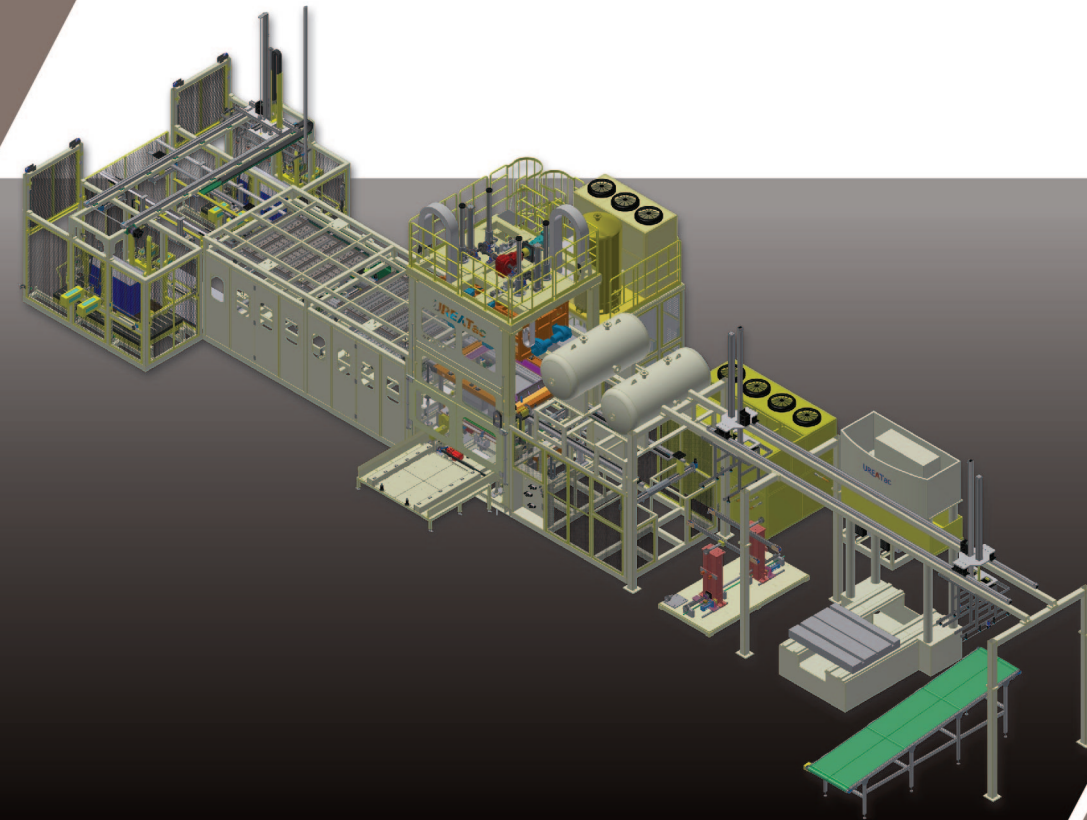
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**Vacuum Forming
machine**

In Line Thermoforming Machines Or Refrigerator Interior Case and Door

In Operation



Typical applications include the manufacture of components in HIPS / ABS.

- Refrigerator inner case
- Refrigerator–Door liners
- Refrigerator–Door exteriors

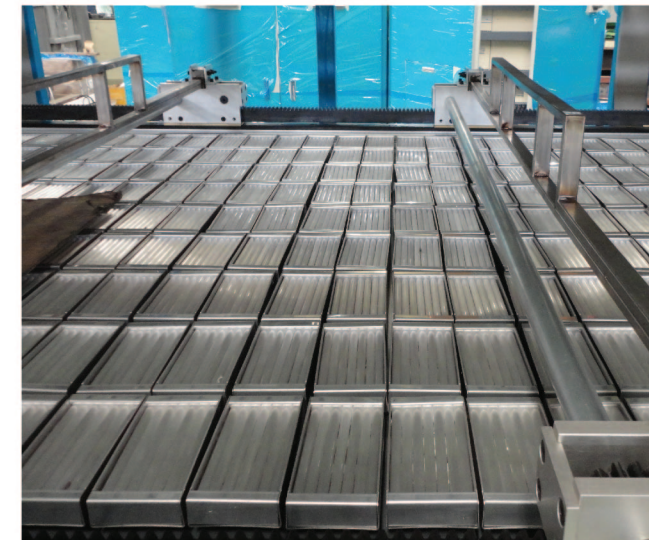
Other Possible Applications

Various plastic materials, such as PVC and PET panels, can also be processed.

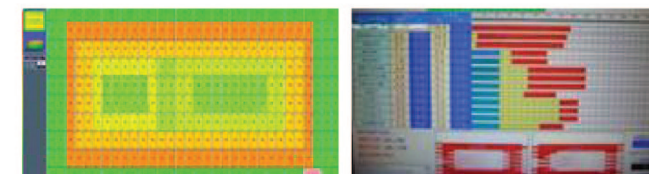
Housing and cover components can likewise be manufactured using the our machine configuration.



Technology With Strong Advantages



Quartz heating elements for fast, efficient heating of plastic sheets



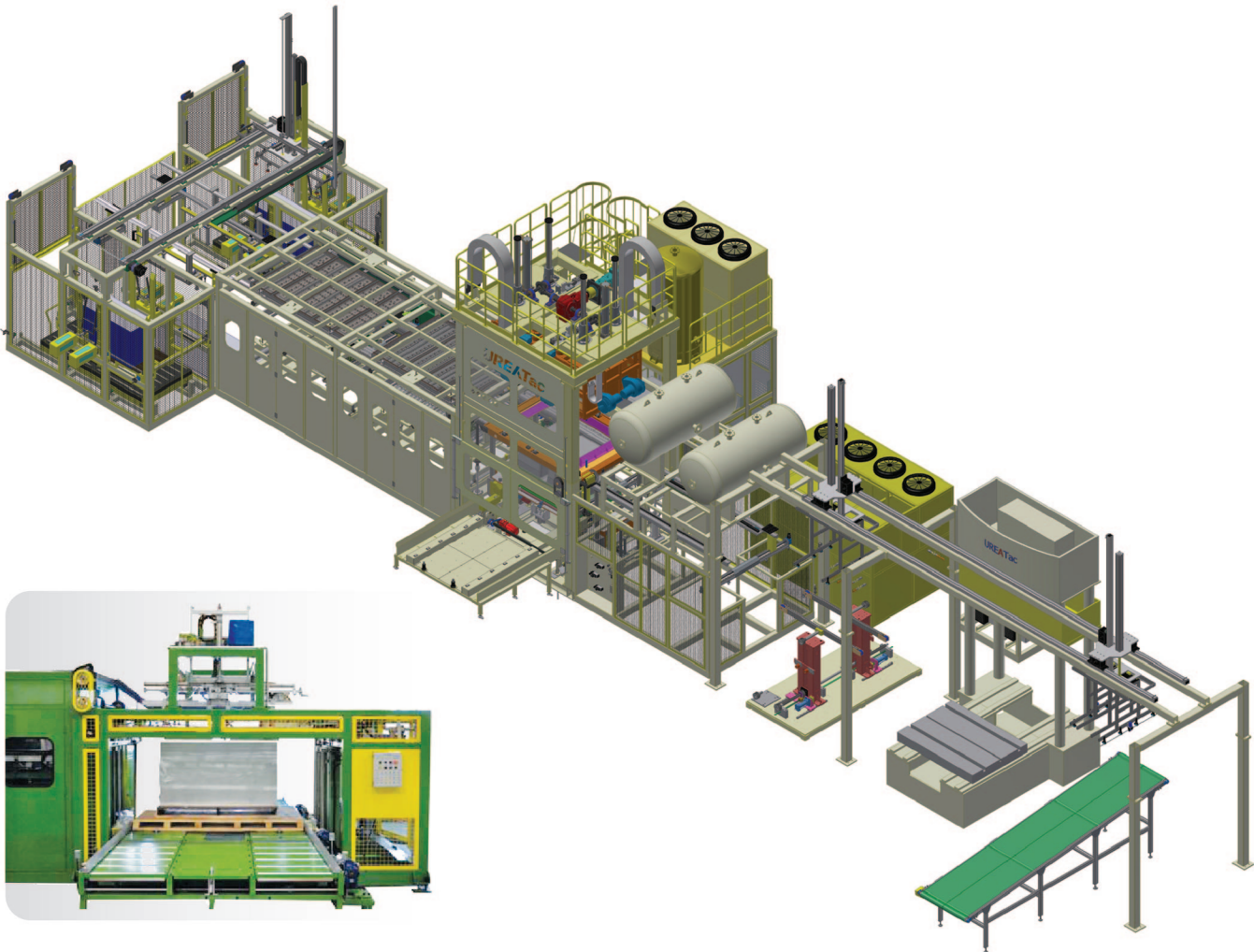
- Servo motor rising system
 - Controlled speed by model
 - No hydraulic system
- Quartz heating element or halogen lamp
- Precision shuttle system by means of special raid system
 - Without sheet dust, high speed
 - Resisted heating system
- The most effective hydraulic system
 - Cooling system
- Optimized exhausting and blowing fan system
 - Special designed modell (UREATAC Patented)
- The most effective heating system
 - Controlled heating distance between heat and sheet by servo motor control (Option Item)

Design Concept Trend



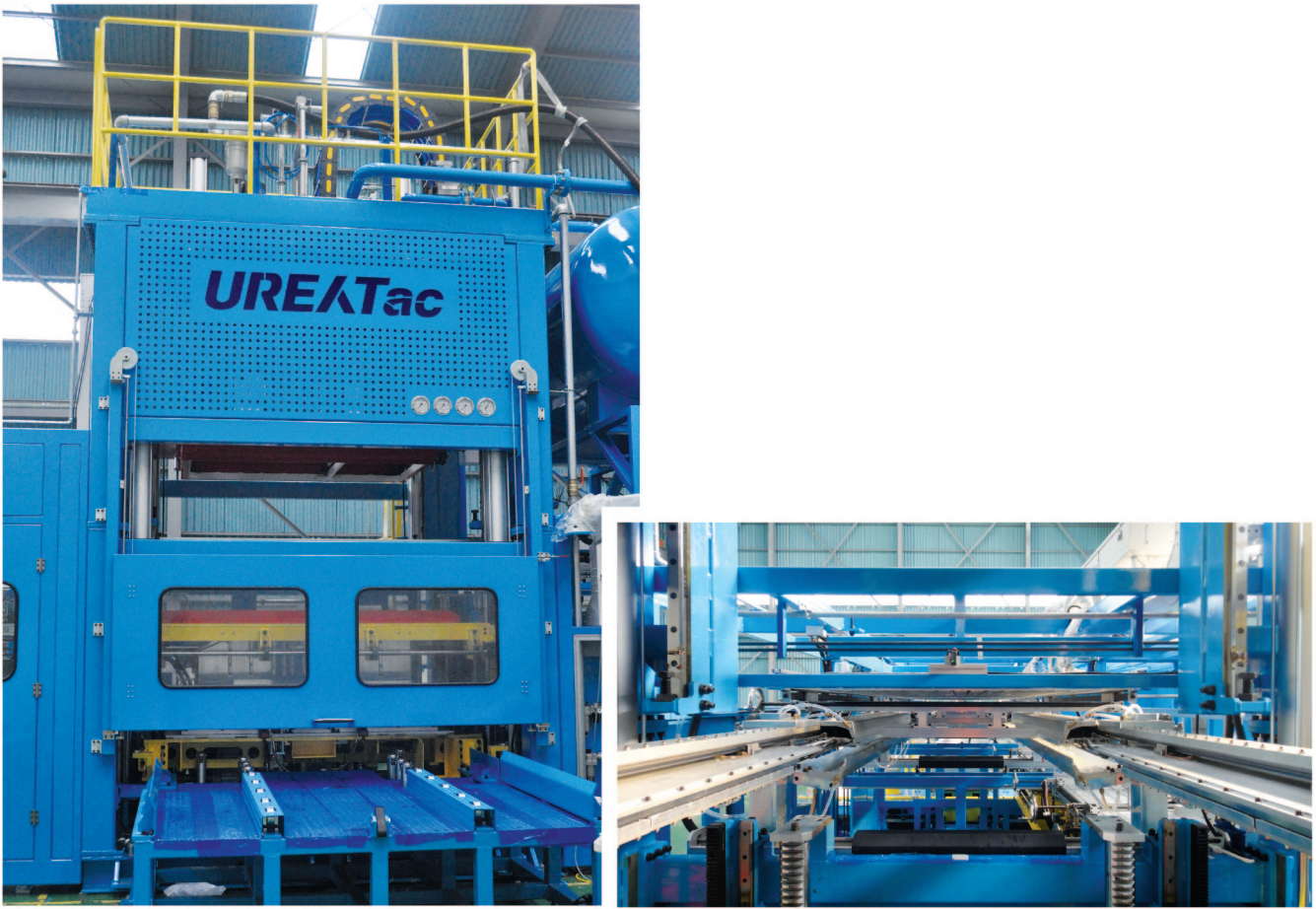
- In line concept
 - More fast processing time in the world
 - More stock in the factory
- Less energy
 - Heating system with quartz or halogen or mixed elements
 - Optimized and change heating distance
 - Optimized cooling system
- For more safety
 - Raize sensing system
- Green machine concept
 - Less noise under 78db
- Compact design
 - Special clamp
 - Special shuttle system

Inner Case Forming Part

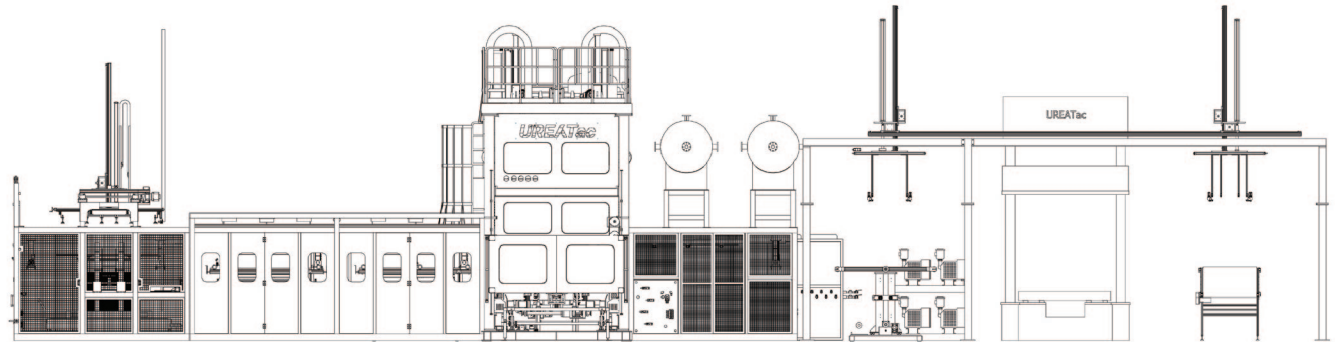


Cycle Time	24 ~ 32 sec
Number of heating station	2 station
Traveling method	Servo motor driven
Heat Type	Quartz Heater
Inner dimension of Sheet	– Length : 1,200 ~ 2,000 mm – Width : 500 ~ 900 mm – Thickness : 2.8 ~ 4.5 mm
Etc.	Pre-Heating System, Final heating
	Vacuum Forming System, Auto Bell Blowing System
	Auto Cutting System, Press
	Auto Pick-up System

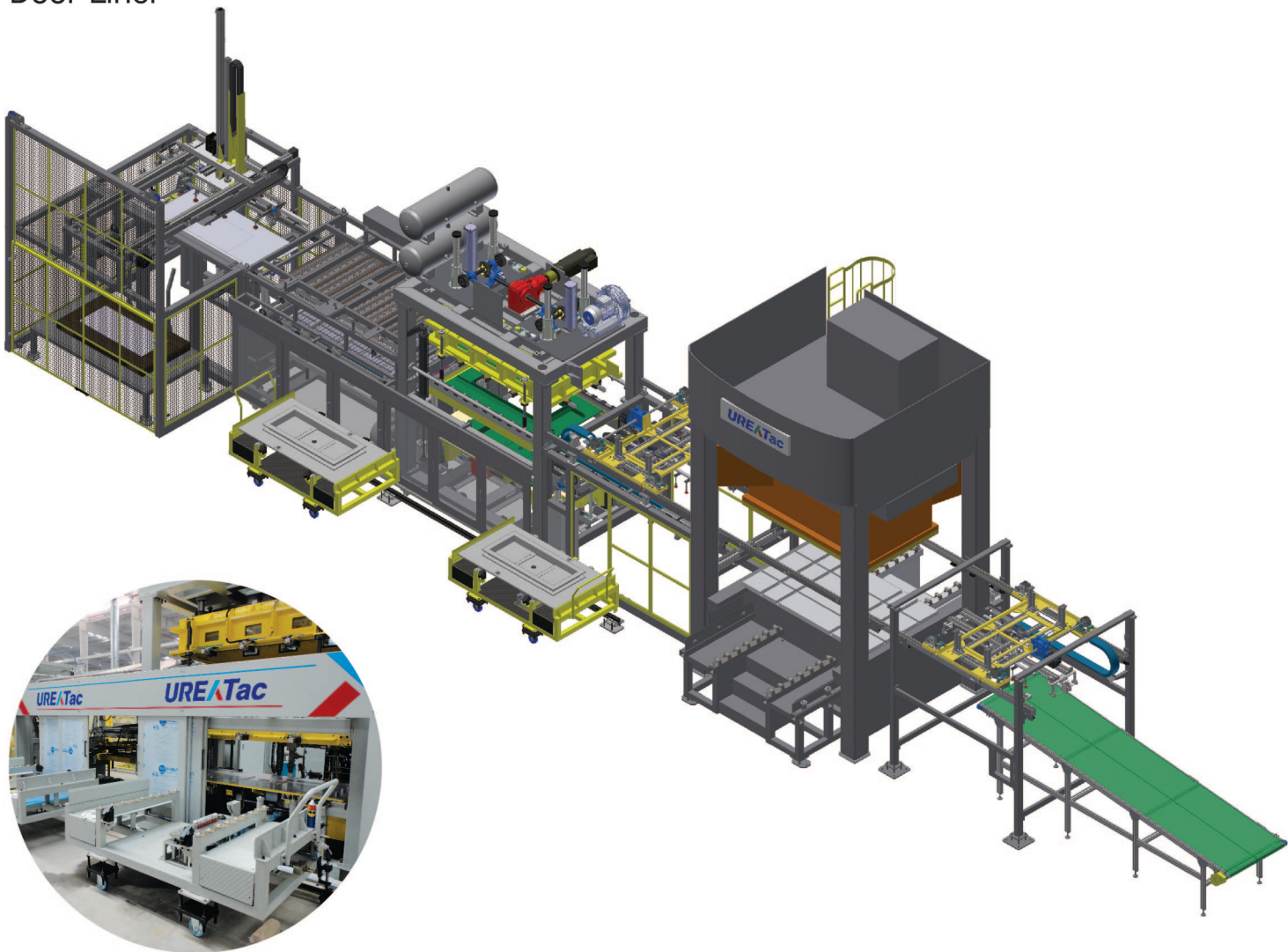
Inner Case



- The basic heater is it adopted Quartz Heater.
 - Heating Room is 2-Station and it adopted Feedback-control-system to minimize around temperature.
 - Forming region by the servo motor up/down control.
 - It minimize electric power consumption and heaters temperature are controlled independently in high accuracy.
 - It has function to protect sheet-double-check.
 - Maintaining optimal distance to sheet.
- Heater control by PID control.
 - Safety Features
 - In case of fire to process management
 - People & machine safety features addition
 - Apply safety PLC control
 - Clamp type (Cooling-only bars system)
 - Forming Zone up/down : Servo Motor structure
 - Sheet of temperature / Blowing
 - Photo sensor, Timer control

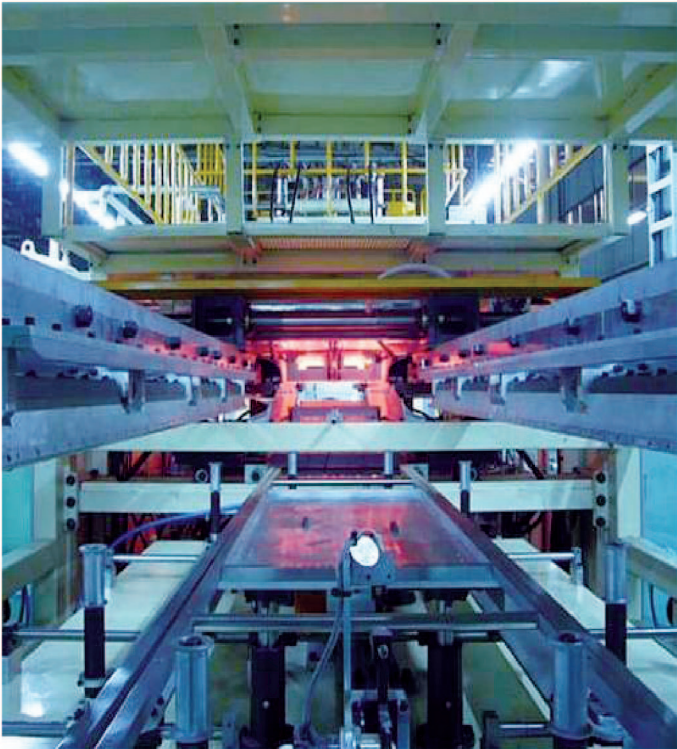


Door Liner

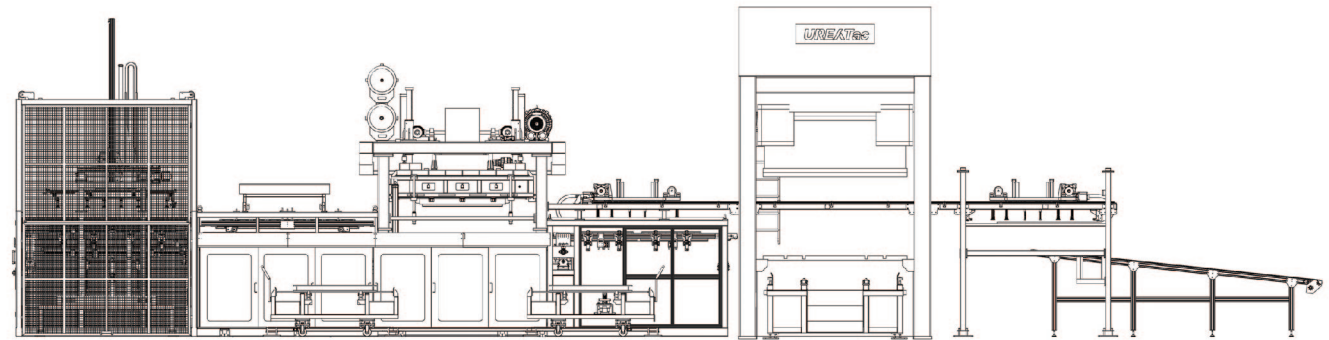


Cycle Time	18 ~ 20 sec
Number of heating station	2 station
Traveling method	Servo motor driven
Heat Type	Quartz or Ceramic
Inner dimension of Sheet	– Length : 1,200 ~ 2,000 mm – Width : 500 ~ 900 mm – Thickness : 1 ~ 1,5 mm
Etc.	Vacuum Forming System Auto Cutting System

Door Liner Forming Part



- The production capacity of this machine is widthin 2~5 min for each product base on sheet thickness.
- It consist of that sheet loader, 1th heating zone, 2th heating zone, formig, piercing and unloading.
- Heating system to up / down is structured.
- Heater Control 0~100%, PID contorl.
- Servo System consists of a sheet drive.
- Adjust the width of each part sepatately constituted by at.
- Deflection of the sheet by the photo sensor and time control is achieved.
- Automatic unloading system. (Eject Conveyor)
- Centring sheet device and perform double-sheet-check device.



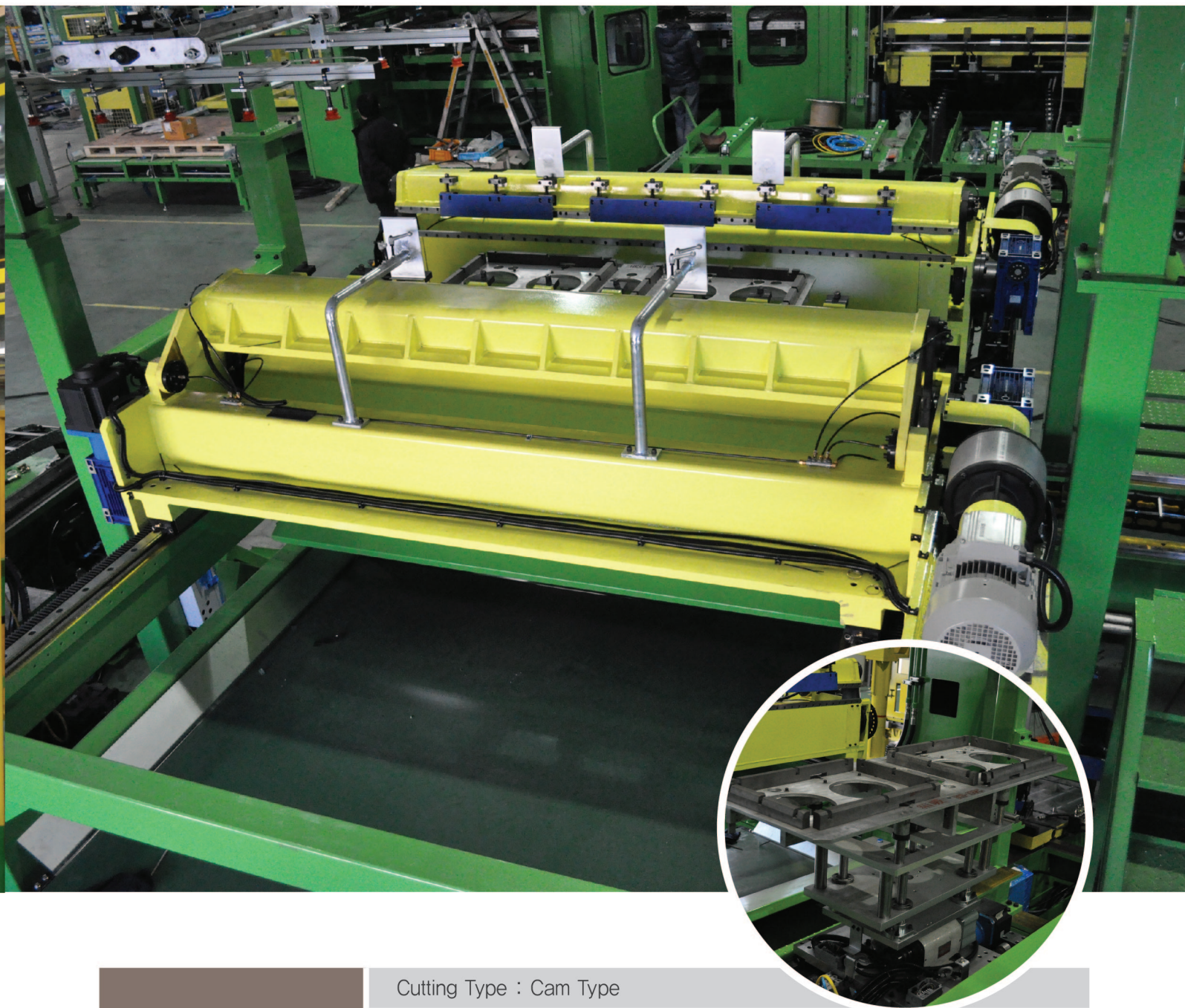
Door Liner Forming Part

- Auto Press System



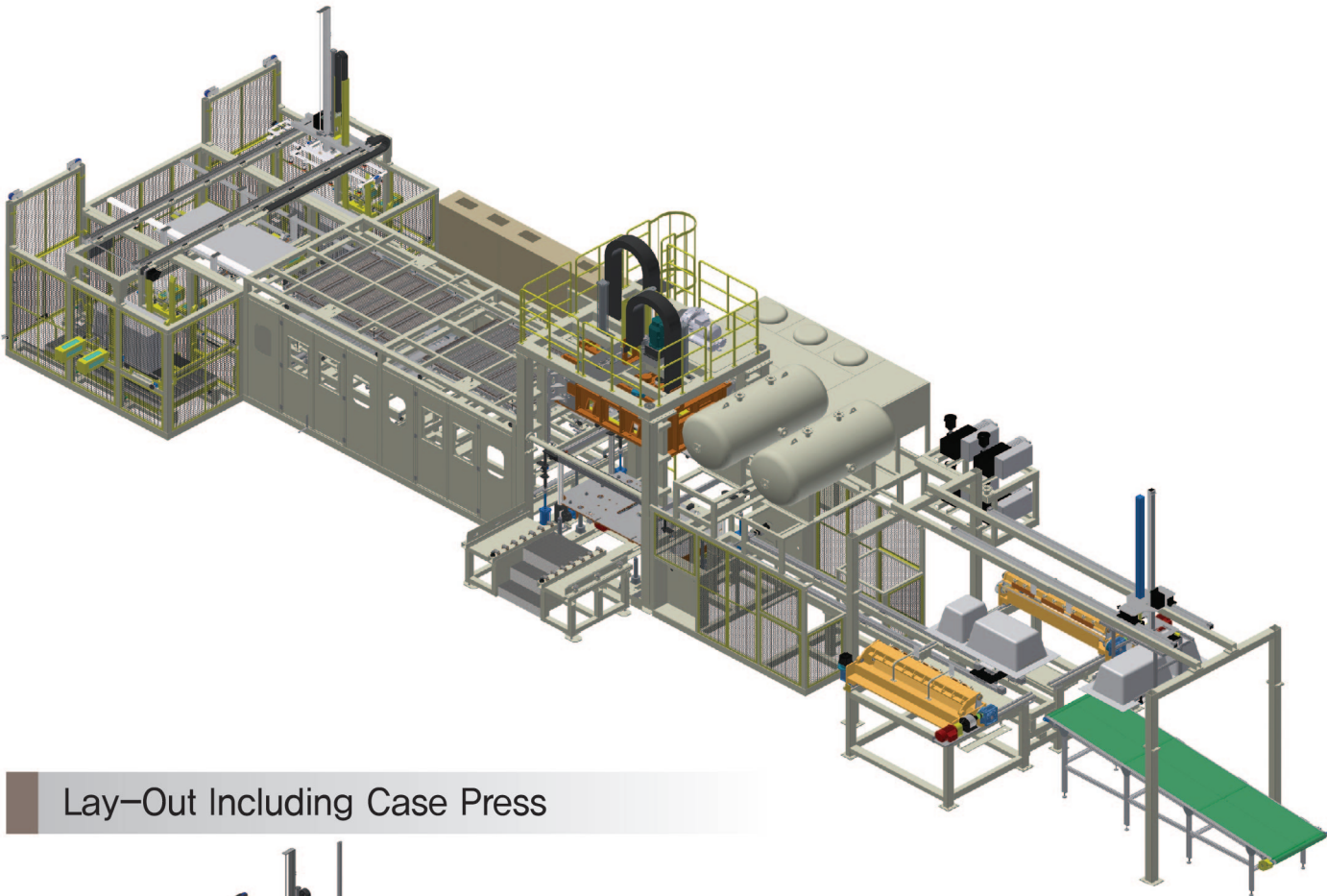
Cycle Time	12 ~ 15 sec
Capacity	20 Ton
Open Hight	1600
Type	Gate Type
Dimension	– Strock : 350 mm – Slide : 2400*1400 mm – Bolster : 2550*1400 mm

- Side Cutting System

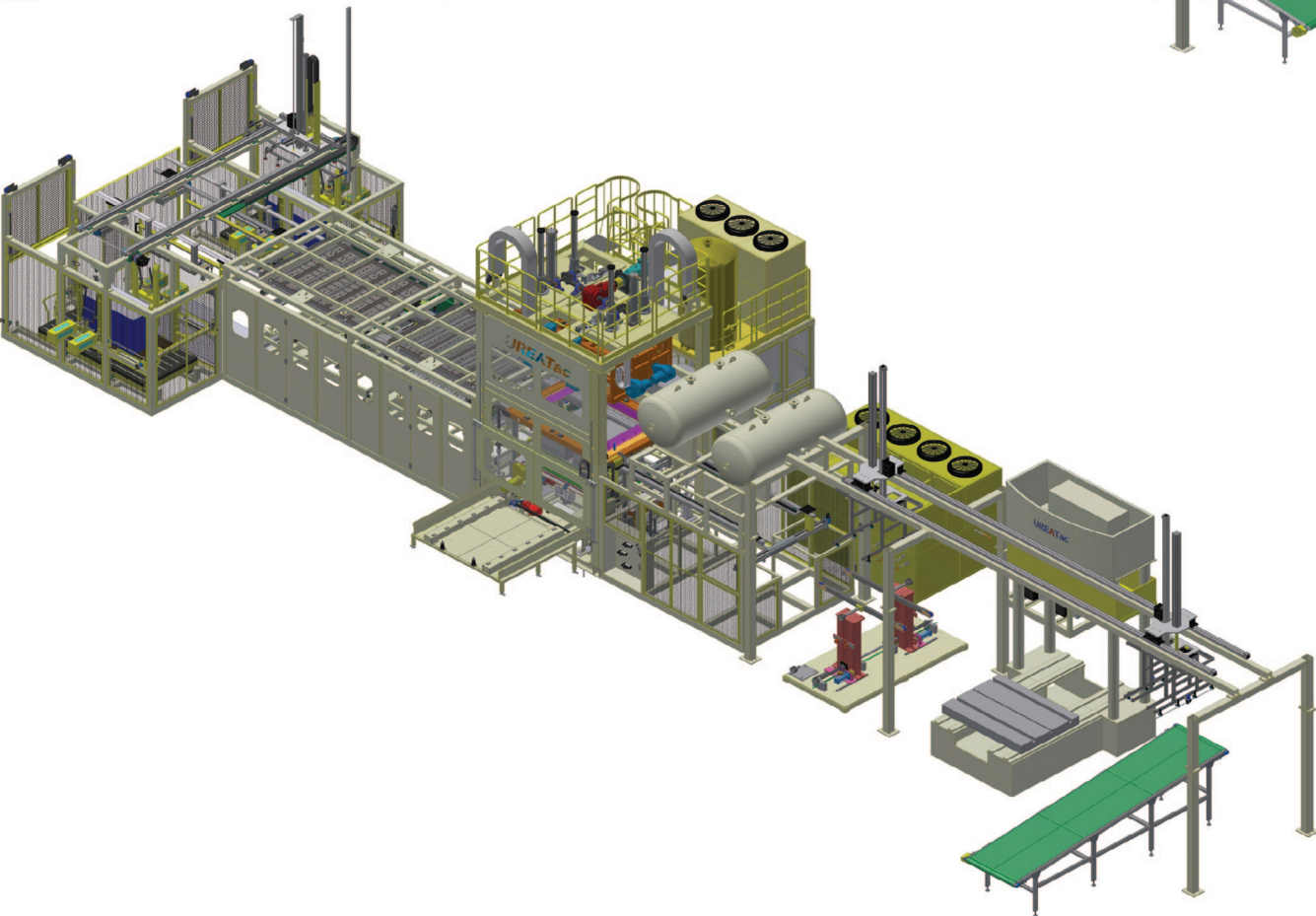


Side Cutting M/C	Cutting Type : Cam Type
	Moving Tpye : Servo Motor
	Index Type

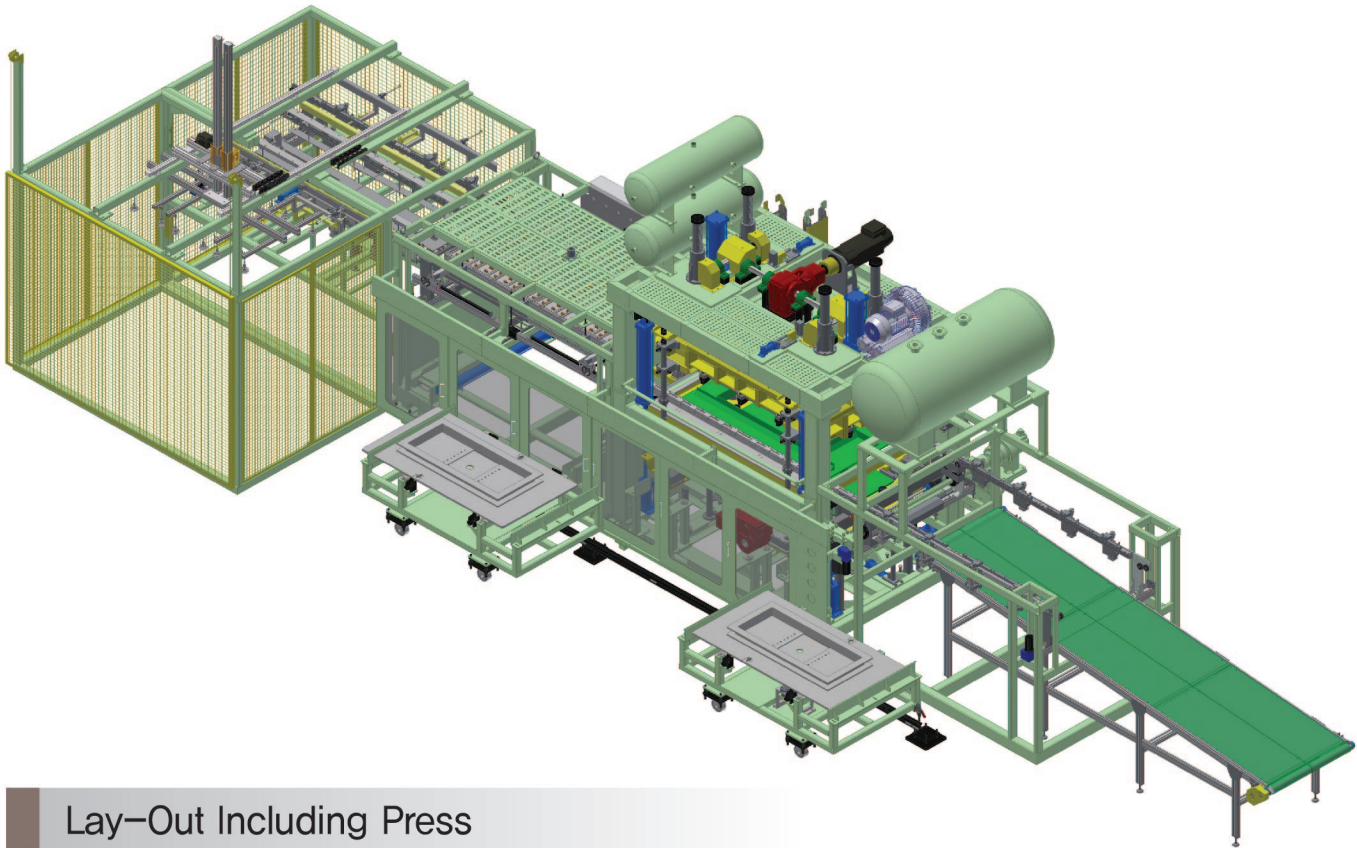
Inner Case Basic Lay-Out



Lay-Out Including Case Press



Door Linner Basic Lay-Out



Lay-Out Including Press

