



# VACUUM FORMING MACHINE



# HISTORY of **GUNYANG ITT**

**Gunyang ITT was established in 1990 and has grown to be a leading company of automotive interior machine market for 28 years.**

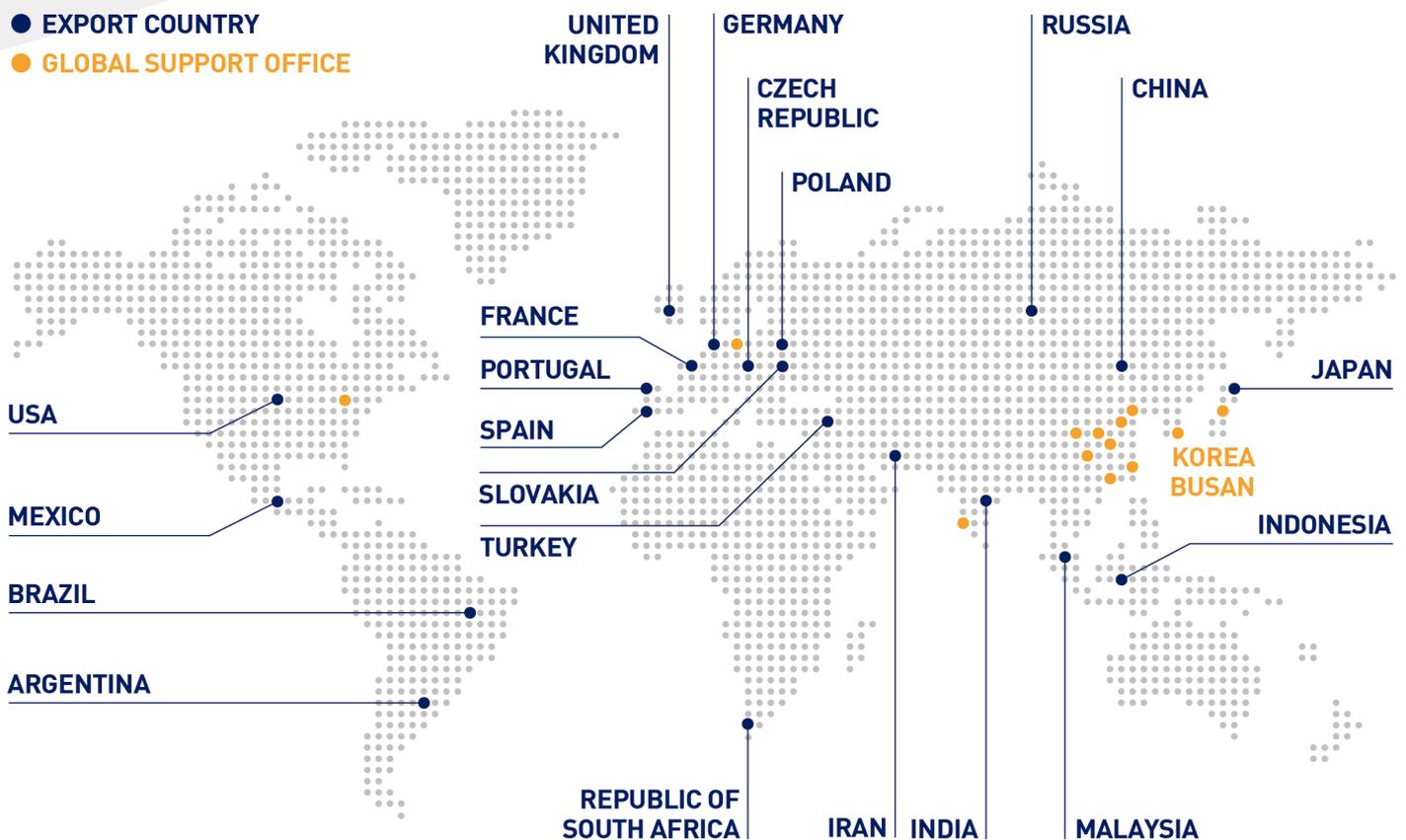
Based on our business philosophy, we'd like to create happiness for all employees and customers by providing our technology-intensive machines and long-term accumulated skills. Not only a machine manufacturer, but also a value creator, we provide complete solutions for automotive interior parts production.



**GUNYANG ITT CO.,LTD.**  
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**[www.gunyang.co.kr](http://www.gunyang.co.kr)**

# GLOBAL SALES NETWORK

Gunyang ITT exported machines for automotive interior parts to 41 clients in 21 countries such as China, Japan, Russia, India, Malaysia, Indonesia, United states, Mexico, Brazil, Argentina, France, Portugal, Spain, Slovakia, Turkey, United Kingdom, Germany, Czech republic, Poland, Iran, Republic Of South Africa and so on.



- Korea head office : Busan
- Japan support office : Nagoya
- India support office : Pune
- Europe support office : Berlin
- China support office : Jinan, Guangzhou, Wuhan, Changsha, Chongqing, Zhengzhou, Shanghai, Tianjin
- North America / Canada support office : Ontario

# SERIES of VACUUM FORMING MACHINE

TYPE		S SERIES		B SERIES		C SERIES	
		STANDARD	OPTION	STANDARD	OPTION	STANDARD	OPTION
PROCESS		In-line		In-line		In-line	Single
MACHINE CYCLE TIME		45s ~		60s ~	-	60s ~	-
MOLD		Male Female (IMG)		Male Female (IMG)		Male Female (IMG)	
SKIN SIZE		Min. 600 x 800 Max. 1500 x 1250	850 x 1900	Min. 1000 x 750 Max. 2250 x 1250		Min. 1000 x 800 Max. 2250 x 1250	Customs requirement
PRESS		Hydraulic 15Ton		Servo motor + hydraulic 25Ton		Hydraulic 15Ton	
HEATER		Quartz	Ceramic	Quartz	Ceramic	Quartz	
HEATER CONTROL		Individual	Group	Individual	Group	Individual	
LOWER TABLE	TITLING	X	X	0	X	X	
	SLIDING	X	0	X	0	X	
TOOL CHANGE		Die lifter and roller	X	Die lifter and roller	Automatic tool change	X	
SKIN LOADING		Automatic sheet loading		Automatic sheet loading	Automatic roll skin loading	Automatic sheet loading	
SKIN	STRETCHING	X	0	X	0	X	
	TRIMMING	X	X	X	0	X	
SKIN CLAMP TILTING		X	X	X	0	X	
CAPABLE AUTO PARTS		Upper trim 4 cavity, lower trim 2 cavity	Upper 2 cavity	Door trim Instrument panel 2 cavity	Door trim Instrument panel 2 cavity	Door trim Instrument panel	All vacuum products

# S SERIES

## GYS-01 MACHINE

### PRODUCING AUTO PARTS

- Door trim



SKIN LOADING UNIT



HEATING UNIT



FEEDING UNIT



FORMING PRESS UNIT



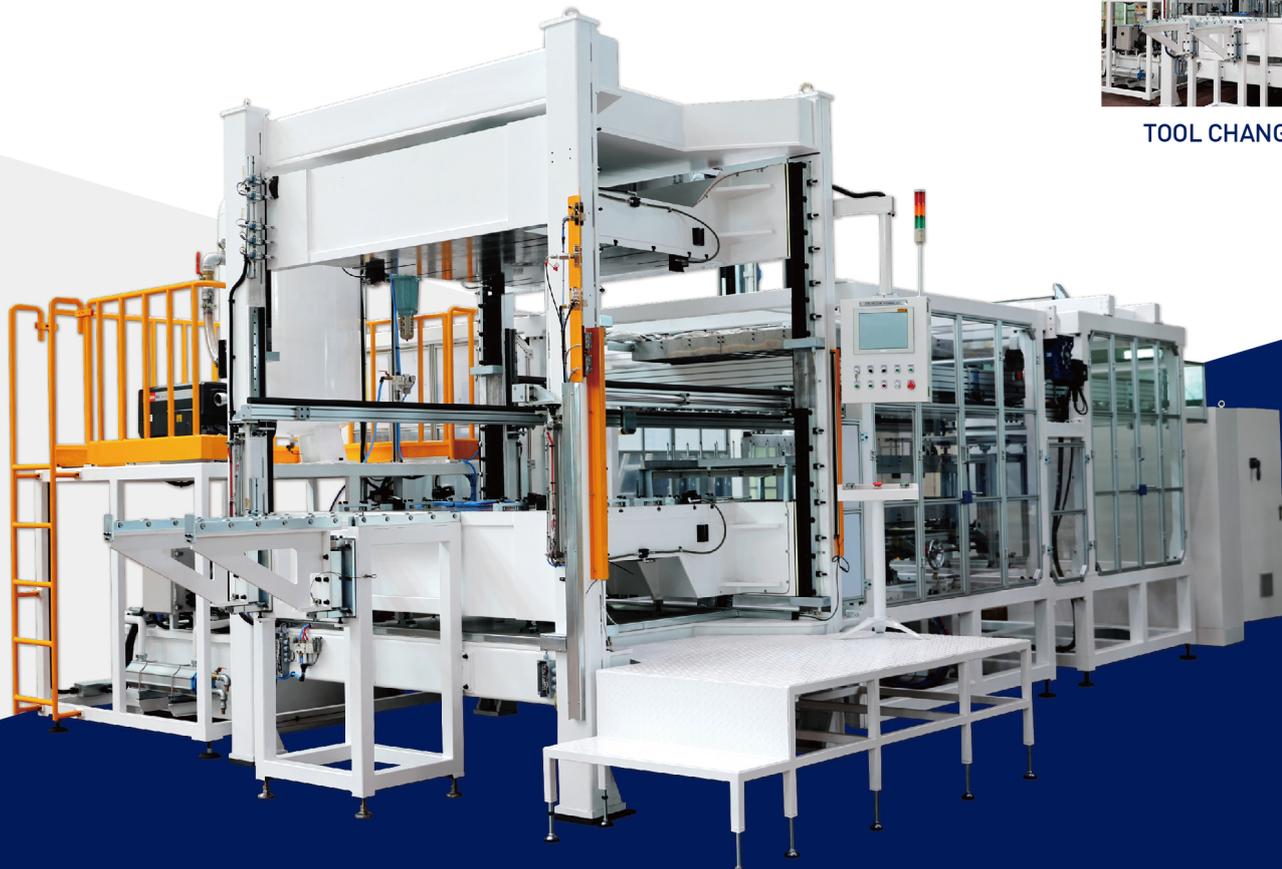
TOOL CHANGE UNIT

### SPECIFICATIONS

- Minimum skin size : 600 x 800
- Maximum skin size : 1500 x 1250
- Bolster size : 1600 x 1500
- Heating type : quartz heater
- Heater control : Individual control (2heaters/1part)
- Press power : 15ton
- Quick die change : Auto clamp + Die lifter
- Skin loading : Automatic sheet loading

### FEATURES

- Running process : loading, heating, forming, unloading
- Machine cycle tim : 60seconds



# B SERIES

## GYB-01 MACHINE

### PRODUCING AUTO PARTS

- Door trim
- Instrument panel (2cavity)



### SPECIFICATIONS

- Minimum skin size : 1000 X 750
- Maximum skin size : 2250 X 1250
- Bolster size : 2000 x 1160
- Heater type : Ceramic heater
- Heater temperature control : group control
- Press power : 25ton
- Servo motor + Rack jack with hydraulic balance cylinder
- Quick die change : automatic tool change system
- Lower table sliding and tilting

### FEATURES

- Running process : loading, heating ,forming, unloading
- Easy loading and unloading for operator because of lower table sliding ad tilting
- Machine cycle time : 60seconds



SKIN LOADING UNIT



HEATING UNIT



FORMING PRESS UNIT



TOOL CHANGE UNIT



LOWER TABLE TILTING UNIT



LOWER TABLE SLIDING UNIT



# B SERIES

## GYB-02 MACHINE

### PRODUCING AUTO PARTS

- Door trim
- Instrument panel (2cavity)



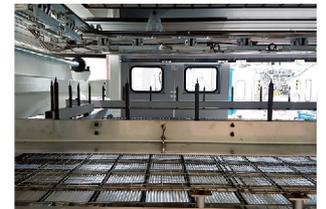
SKIN LOADING UNIT



SKIN HOTMELT COATING UNIT



SKIN 180° TURNING SYSTEM



HEATING UNIT



FORMING PRESS UNIT

### SPECIFICATIONS

- Minimum skin size: 1000 x 800
- Maximum skin size: 2250 x 1250
- Bolster size : 2370 x 1300
- Heating type : quartz heater
- Heater control : Individual control (2heaters/1part)
- Pressure power: 25Ton
- Quick die change : Auto clamp + die lifter
- Lower table tilting

### FEATURES

- Running procedure: skin sheet loading, skin hot melt coating, skin 180 degree turning, heating, forming, unloading
- Hot melt coating system
- Machine cycle time : 60seconds



# B SERIES

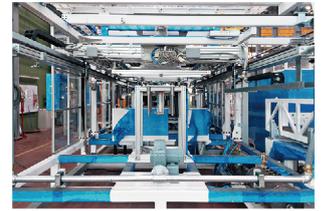
## GYB-03 MACHINE

### PRODUCING AUTO PARTS

- Door trim
- Instrument panel (2cavity)



SHEET LOADING UNIT



SHEET FEEDING UNIT



HEATING UNIT



FORMING PRESS UNIT

### SPECIFICATIONS

- Minimum skin size : 1000 X 750
- Maximum skin size : 2250 X 1250
- Bolster size : 2000 x 1160
- Heater type : Ceramic heater
- Heater temperature control : group control
- Press power : 25ton
- Servo motor + Rack jack with hydraulic balance cylinder
- Quick die change : automatic tool change system
- Lower table sliding and tilting

### FEATURES

- Working procedure: sheet loading, feeding, heating, forming
- Skin clamp tilting function - Trimming function
- Machine cycle time : 60seconds



# C SERIES

## GYC-01 MACHINE



### PRODUCING AUTO PARTS

- Door trim



### FEATURES

- Working procedure : sheet loading, feeding, heating, forming
- Machine cycle time : 60seconds

### SPECIFICATIONS

- Minimum skin size : TBD - Maximum skin size : 1500 x 1200
- Heating type : Ceramic heater - Heater control : group control (upper, lower each 12 parts)
- Pressure power : 15Ton - Quick die change : Auto clamp + die lifter



SKIN SHEET LOADING



SKIN HEATING



PRESS FORMING

## CUSTOMIZED MACHINE REFERENCES



### IN-LINE THERMOFORMING MACHINE

Roll skin feeder,  
Chain pin pinch transfer device  
Scrap rewinding unit  
Quick tool change-rotary table type  
Capable parts : cluster, door trim,  
instrument panel



### IN-LINE IMG MACHINE

Roll skin feeder,  
Chain pin pinch transfer device  
Foil cutting unit & foil centering unit  
Lower table tilting  
Quick tool change-rotary table type  
Capable parts : cluster, door trim,  
instrument panel



### IN-LINE IMG MACHINE

Roll skin feeder, foil cutting unit  
Scrap rewinding unit  
Capable parts : door trim,  
instrument panel

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