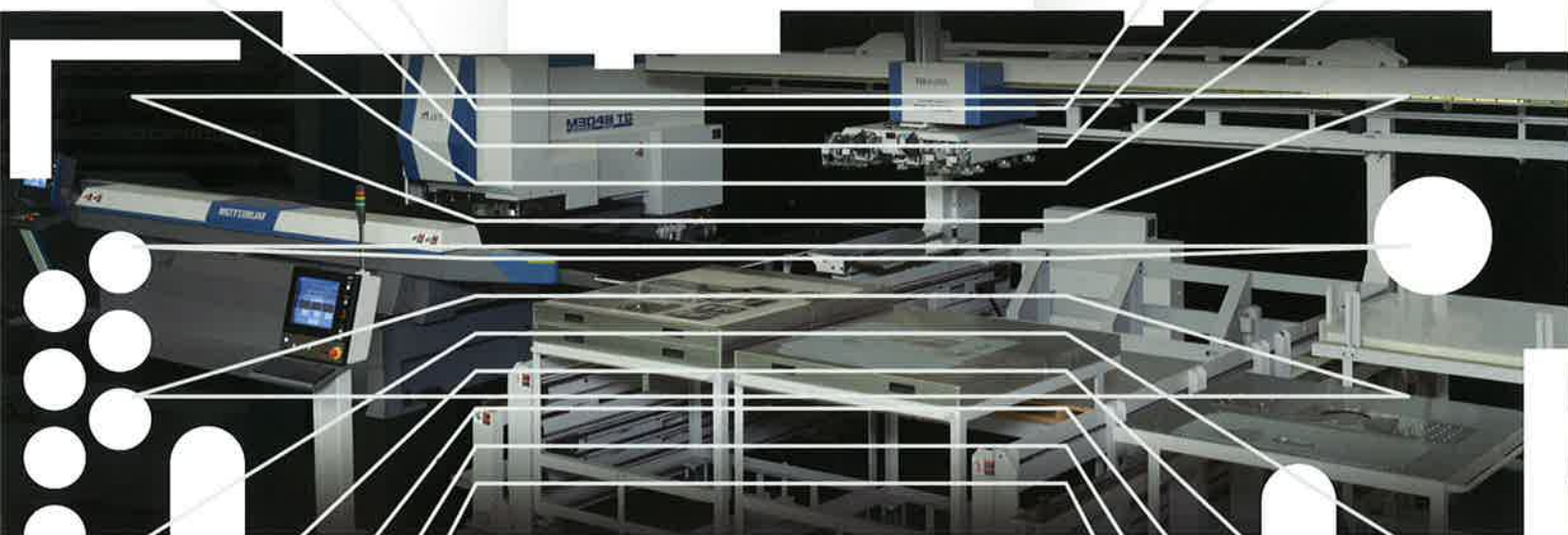


# Sheet Metal Automation



Simple and Compact design for sheet load / unload

# SL1250



# Loader

Compact, same side full sheet load / unload

# FS series

Standard Load / Unload



## ■ Magnets & air blow

For reliable blank sheet separation.



## ■ Material edge detection

Errors in X-axis material stack loading are automatically offset by scanning to the sheet edge.



## ■ Multi pads

Non-ferrous and hole intensive parts can be consistently picked and sorted in FG systems.



## ■ Single sheet confirmation

Blanks are measured to confirm a single sheet is picked up.





More flexible, longer unattended full sheet operation with blank / finished part storage

## FS series

Tower type



# Systems

Flexible finished parts sorting and stacking systems

## FG series

Sorting type



### Material positioning

Loader positioning pads locate the sheet in the work holders with a high degree of accuracy.



### Scissor lift table

Automatically adjusts the finished part stack height for smooth and accurate unloading.



### Additional finished parts carts (Option)

FG system parts can be sorted, stacked and efficiently transported to the next operation.



\*Option is included in these pictures.

# Muratec Automation will Increase your Productivity and Profits!

Muratec has a long history of industrial automation that dates back to the mid 50's. The automation offered in sheet metal processing today is a result of decades of experience delivering customer solutions.

Today's automated systems require diverse demands in application and production. Muratec has turnkey systems that provide the hardware and software to effectively process and manage from raw material to finished parts. Our cost effective systems can overcome variable production demands and large production runs.



## Turret Punch Press

### Wiedemann Style Tooling



### Spring Style Tooling





# Swing loader SL1250

## Simple and Compact design for sheet load / unload



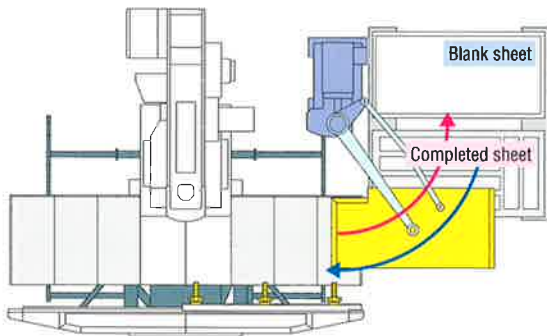
### Applicable machine model

- M2048TE
- M2048TS

## Features

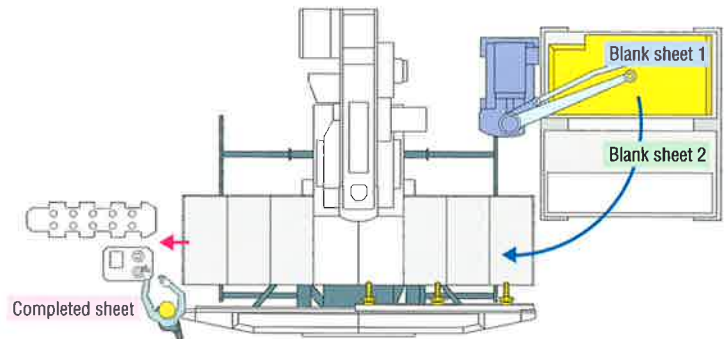
### ● Automatic loading / Automatic unloading mode

This mode is best for continuous operation of workpieces that have longer processing times per sheet.



### ● Automatic loading / Manual unloading mode

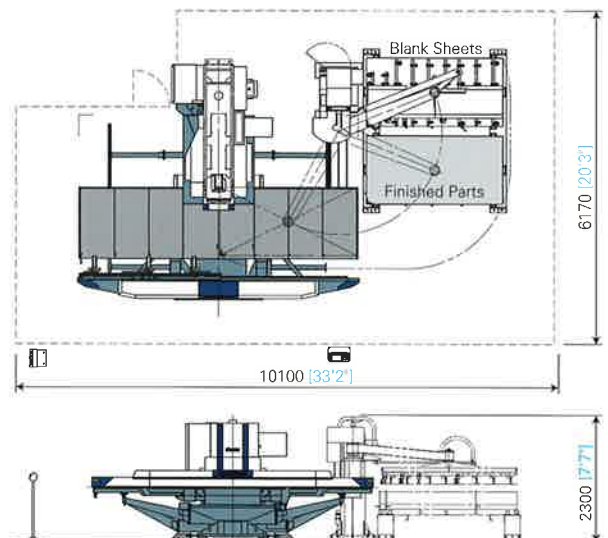
This system includes a standard mode for automatically loading material and manual unloading of the finished part by the operator. This mode is best for workpieces that are needed immediately for a post process, are not easily unloaded using vacuum pads, or are subject to damage if formed features are stacked on each other.



## Specifications

		SL1250
Sheet size (Y x X)	Maximum	1250 mm x 2500 mm [49.21" x 98.43"]
	Minimum	300 mm x 750 mm [11.81" x 29.52"]
Material thickness		0.6 mm ~ 3.2 mm [0.02" ~ 0.13"]
Max. stack weight		3 tons [3.3 US tons(6600 LBS)]
Max. stack height (including wooden pallet)		320 mm [12.6"]
Compressed air	Quantity	400 NL/min (0.4 m³/min)
	Pressure	0.49 MPa (5.0 kgf/cm²) [71 PSI]
Power supply		3 kVA

\*Above compressed air and power supply are excluding main machine's.



\*The above illustrations show the example when combined with the turret punch press M2048TS.

# Full sheet load / unload systems

## FS2512/FS3015

Compact, same side full sheet load / unload



### Applicable machine model

- M2048TE
- M2048TS
- M2548TS / M2558TS
- M3048TG / M3058TG
- M2048HL / M2558HL
- M5000

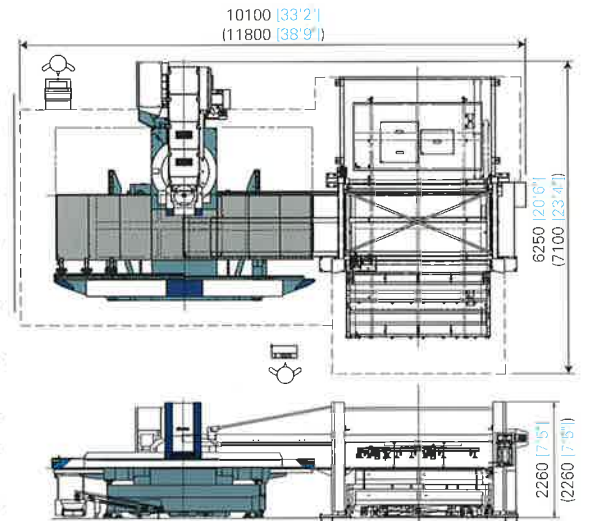
This picture shows when combined with M2048TS.

## Features

- Modular Design accommodates a Tower expansion when needed.
- Same side load / unload provides space saving compact design.
- Operator side is available for hot jobs and other manual operations.
- Multiple 2 or 4 stack configurations allow expanded automatic operation. (Option)
- Servo Motor Drive technology delivers accurate high speed blank positioning.



Specifications		FS2512	FS3012	FS3015
Sheet size (Y x X)	Maximum	1250 mm x 2500 mm [49.21" x 98.43"]	1250 mm x 3050 mm [49.21" x 120.07"]	1525 mm x 3050 mm [60.03" x 120.07"]
	Minimum		300 mm x 750 mm [11.81" x 29.52"]	
Material thickness			0.6 mm ~ 4.5 mm [0.02" ~ 0.18"]	
Max. stack weight			2 tons [2.2 US tons]	
Max. stack height (including wooden pallet)			260 mm [10.23"]	
Compressed air	Quantity	400 NL/min(0.4 m³/min)	600 NL/min (0.6 m³/min)	
	Pressure		0.5 MPa (5 kg/cm²) [71 PSI]	
Power supply			9 kVA	



( ) : M3058TG & FS3015

\*Above compressed air and power supply are excluding main machine's.

\*The above illustrations show the example when combined with the turret punch press M3048TG.



More flexible, longer unattended full sheet operation  
with blank / finished part storage

### Applicable machine model

- M2048TE
- M2048TS
- M2548TS / M2558TS
- M3048TG / M3058TG
- M2048HL / M2558HL
- M5000



## Features

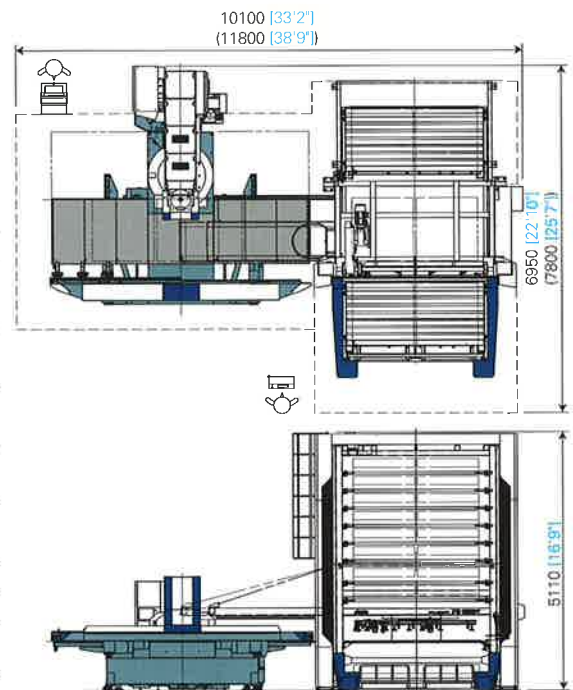
- Using the stocker elevator, material / part exchange can be done while the system is running.
- All drawers are available for material or finished parts.
- Material pallets can be scheduled for finished parts after they are emptied.  
If a material pallet empties before job completion, the system will continue to the next scheduled job.
- Multiple 2 stack configurations allow expanded automatic operation. (Option)



Two stacks right and left

## Specifications

		FS2512T	FS3012T	FS3015T
Sheet size (Y x X)	Maximum	1250 mm x 2500 mm [49.21" x 98.43"]	1250 mm x 3050 mm [49.21" x 120.07"]	1525 mm x 3050 mm [60.03" x 120.07"]
	Minimum		300 mm x 750 mm [11.81" x 29.52"]	
Material thickness			0.6 mm ~ 4.5 mm [0.02" ~ 0.18"]	
Max. stack weight			2 tons [2.2 US tons]	
Max. stack height (including wooden pallet)		260 mm [10.23"]		235 mm [9.25"]
Number of shelves			6 or 8	
Compressed air	Quantity	400 NL/min (0.4 m³/min)	600 NL/min (0.6 m³/min)	
	Pressure		0.5 MPa (5 kg/cm²) [71 PSI]	
Power supply			14 kVA	



( ) : M3058TG & FS3015T

\*Above compressed air and power supply are excluding main machine's.

\*The above illustrations show the example when combined with the turret punch press M3048TG.

# Individual parts pick and sort systems

## FG2512/FG3015

### Flexible finished parts sorting and stacking systems



#### Applicable machine model

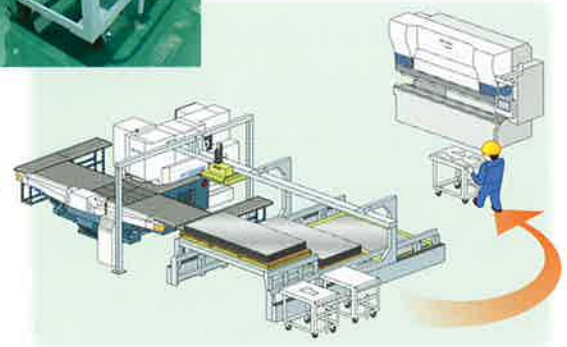
- M3048TG / M3058TG
- M2548TS / M2558TS
- M2048HL / M2558HL

#### External manual operated cart (Option)



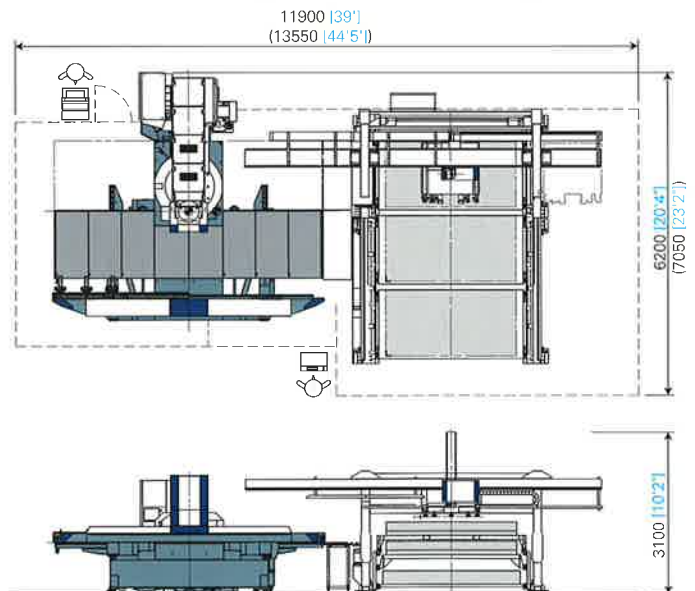
### Features

- Full Sheet or micro-jointless parts production.
- A variety of system configurations are available for customer's production requirements.
- Small parts up to full sheets can be unloaded.
- Flexible multi-pad loader configuration allows most part sizes and hole intensive parts to be picked up.
- System allows flexible stacking of parts, per nested layout, per next process, per kit, etc.



#### Specifications

		FG2512	FG3015	FG3015
Sheet size (Y x X)	Maximum	1250 mm x 2500 mm [49.21" x 98.43"]	1250 mm x 3050 mm [49.21" x 120.07"]	1525 mm x 3050 mm [60.03" x 120.07"]
	Minimum	300 mm x 500 mm [11.81" x 19.68"]		
Material thickness		0.6 mm ~ 4.5 mm [0.02" ~ 0.18"]		
Finished part size (Y x X)	Maximum	1250 mm x 2500 mm [49.21" x 98.43"]	1250 mm x 3050 mm [49.21" x 120.07"]	1525 mm x 3050 mm [60.03" x 120.07"]
	Minimum	100 mm x 80 mm [3.94" x 3.14"]		
Max. stack weight		2 tons [2.2 US tons]		
Max. stack height (including wooden pallet)		260 mm [10.23"]	235 mm [9.25"]	
Compressed air	Quantity	900 NL (0.9 m <sup>3</sup> /min)	1300 NL (1.3 m <sup>3</sup> /min)	
	Pressure	0.5 MPa (5 kg/cm <sup>2</sup> ) [71 PSI]		
Power supply		8 kVA	13 kVA	



\*Above compressed air and power supply are excluding main machine's.

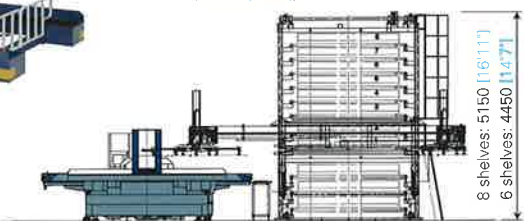
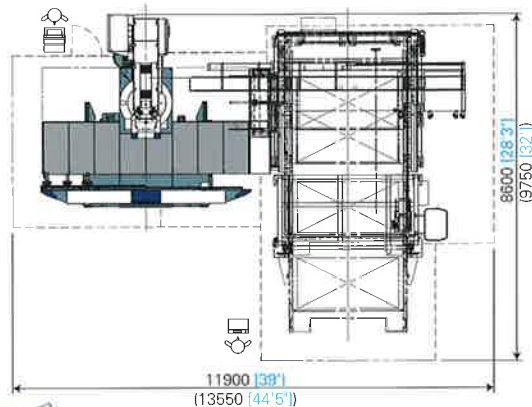
( ) : M3058TG & FG3015  
\*The above illustrations show the example when combined with the turret punch press M3048TG.



# Individual parts pick and sort systems with stocker

## FG2512T/FG3015T

### FG tower system



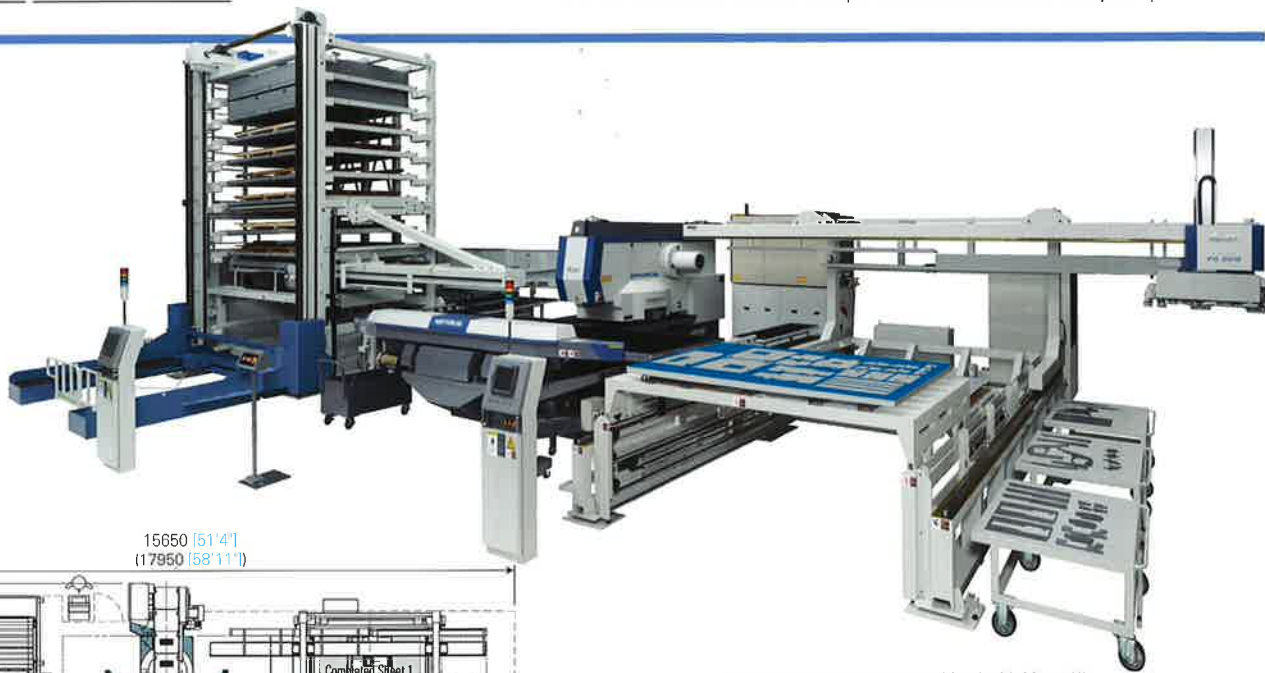
#### Shelves

This picture shows when combined with M2048HL.

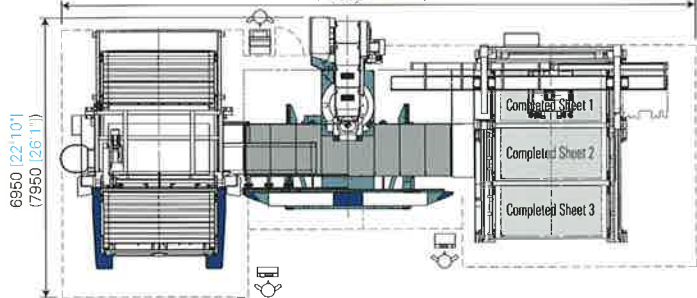
( ) : M3058TG & FG3015T

Number of shelves 6 or 8

\*The above illustrations show the example when combined with the turret punch press M3048TG.



15650 [51'4"]  
(17950 [58'11"])

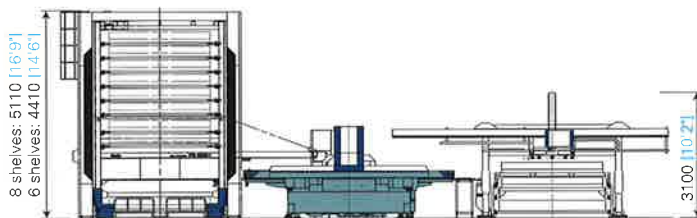


This picture shows when combined with M2048HL.

### Tower for material and FG combination system

#### Shelves

Number of shelves 6 or 8



( ) : M3058TG & FG3015T

\*The above illustrations show the example when combined with the turret punch press M3048TG.

# Applicable machine model

## M2048TE



## M2048TS



## M2548TS / M2558TS



## M3048TG / M3058TG



## M2048HL / M2558HL



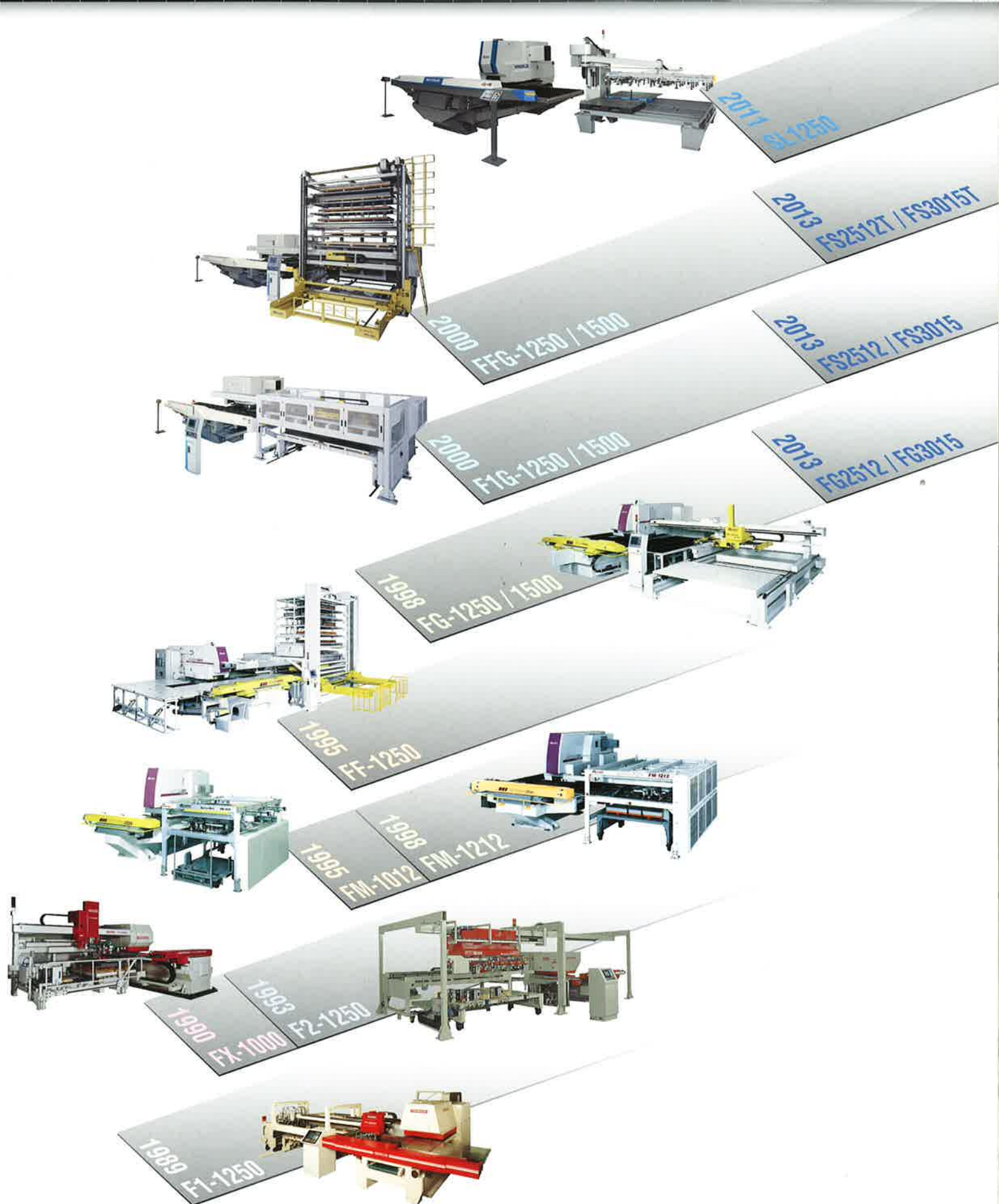
## M5000



	M2048TE	M2048TS	M2548TS M2558TS	M3048TG M3058TG	M2048HL M2558HL	M5000
SL1250	●	●				
FS2512 / FS3012 / FS3015	●	●	●	●	●	●
FS2512T / FS3012T / FS3015T	●	●	●	●	●	●
FG2512 / FG3012 / FG3015			●	●	●	



# History of Sheet Metal Automation





● **Safety Specification**

Machines built with CE-safety conformity are available as option.

\* Machine appearance may differ to that shown in the catalogue pictures

\* All specifications are subject to change without advance notice

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