

Sheet Metal Automation



* Machine appearance may differ to that shown in the catalogue pictures
 * All specifications are subject to change without advance notice

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Simple and Compact design for sheet load / unload

SL1250



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

FS series

Tower type



Loader Systems

Compact, same side full sheet load / unload

FS series

Standard Load / Unload



Flexible finished parts sorting and stacking systems

FG series

Sorting type



■ 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.



■ 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.

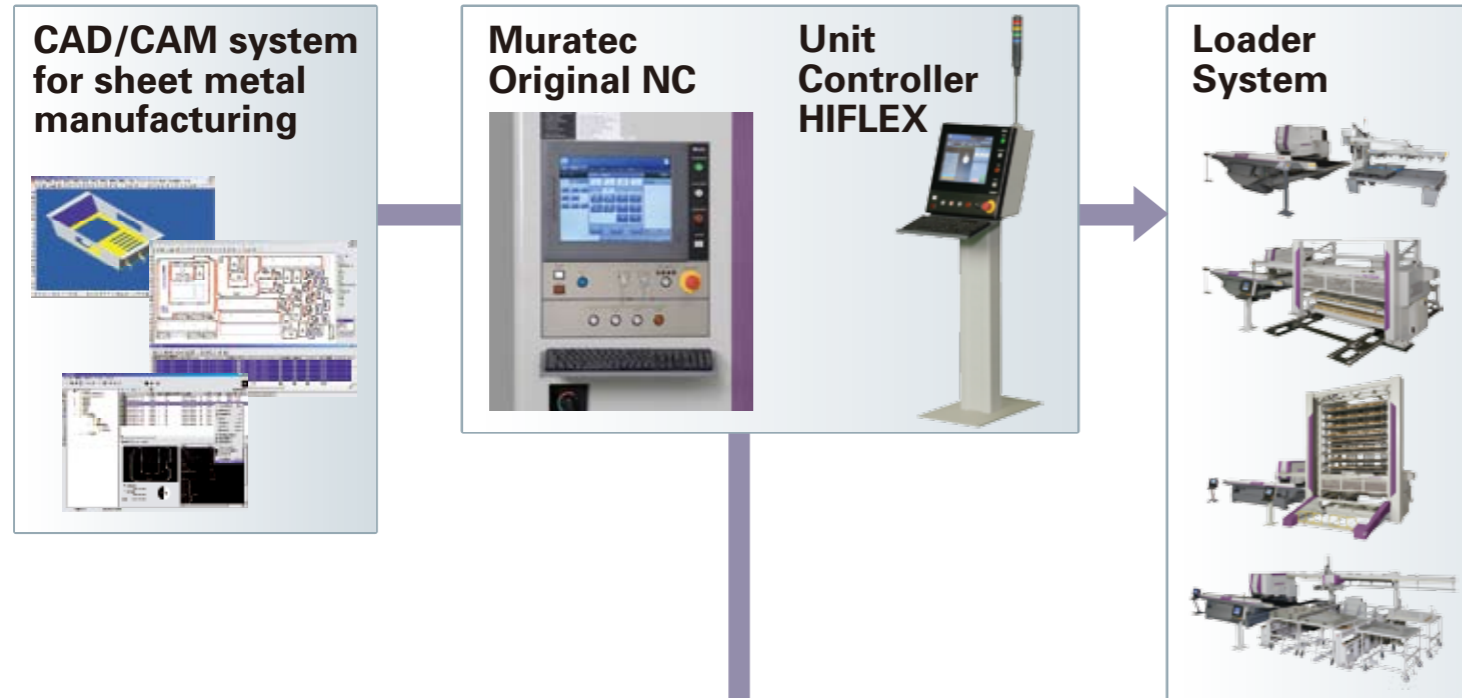


*Option is included in these pictures.

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



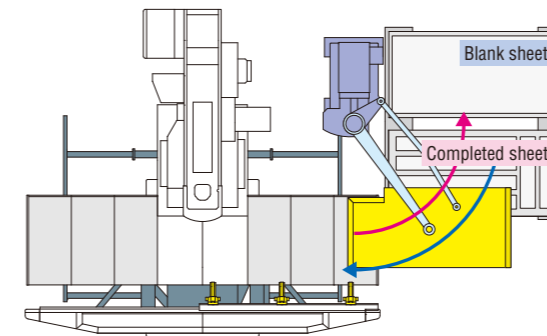
Applicable machine model

- M2048TE
- M2048TS

Features

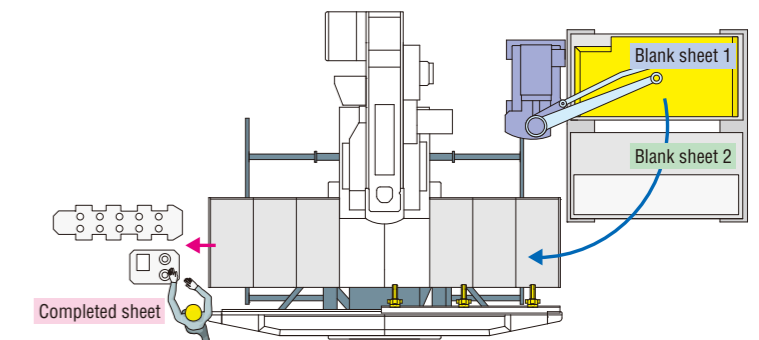
- Automatic loading / Automatic unloading mode

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



- Automatic loading / Manual unloading mode

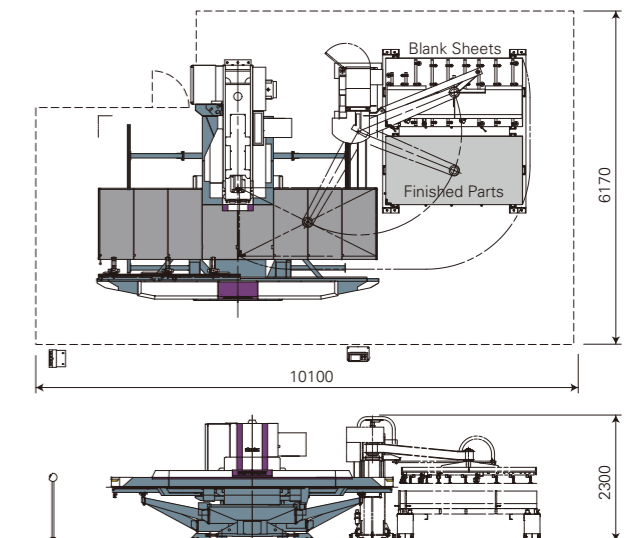
This system includes a standard mode for automatically loading material and manual unloading of the finished part by the operator. This mode is best for workpieces that are needed immediately for a post process, are not easily unloaded using vacuum pads, or are subject to damage if formed features are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



Specifications

		SL-1250
Sheet size (Y x X)	Maximum	1250 mm x 2500 mm
	Minimum	300 mm x 750 mm
Material thickness		0.6 mm ~ 3.2 mm
Max. stack weight		3 tons
Max. stack height (including wooden pallet)		320 mm
Compressed air	Quantity	400 NL/min (0.4 m³/min)
	Pressure	0.49 MPa (5.0 kgf/cm²)
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.

Compact, same side full sheet load / unload



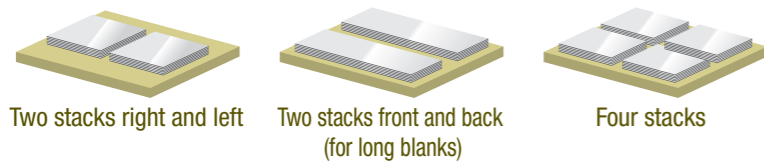
Applicable machine model

- M2048TE
- M2048TS
- M2548TS / M2558TS
- M3048TG / M3058TG
- M2048HL / M2558HL
- M5000
- NPS01

This picture shows when combined with M2048TS.

Features

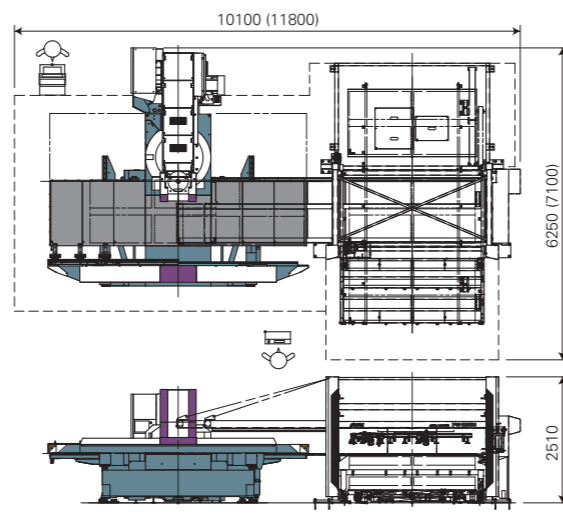
- Modular Design accommodates a Tower expansion when needed.
- Same side load / unload provides space saving compact design.
- Operator side is available for hot jobs and other manual operations.
- Multiple 2 or 4 stack configurations allow expanded automatic operation. (Option)
- Servo Motor Drive technology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



Specifications

		FS2512	FS3012	FS3015
Sheet size (Y x X)	Maximum	1250 mm x 2500 mm	1250 mm x 3050 mm	1525 mm x 3050 mm
	Minimum	300 mm x 750 mm		
Material thickness		0.6 mm ~ 4.5 mm		
Max. stack weight		2 tons		
Max. stack height (including wooden pallet)		260 mm		
Compressed air	Quantity	400 NL/min (0.4 m³/min)	600 NL/min (0.6 m³/min)	
	Pressure	0.5 MPa (5 kg/cm²)		
Power supply		9 kVA		

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



() : M3058TG & FS3015

*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

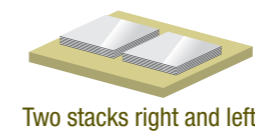
Applicable machine model

- M2048TE
- M2048TS
- M2548TS / M2558TS
- M3048TG / M3058TG
- M2048HL / M2558HL
- M5000
- NPS01



Features

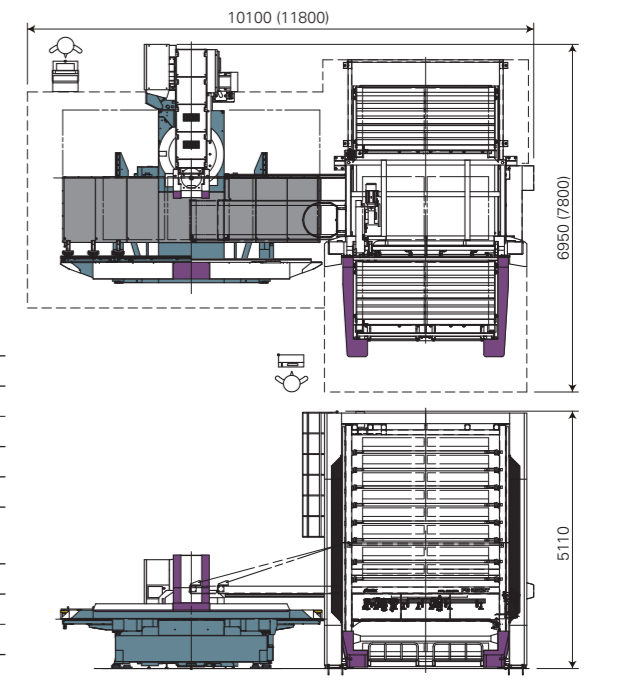
- Using the stocker elevator, material / part exchange can be done while the system is running.
- All drawers are available for material or finished parts.
- Material pallets can be scheduled for finished parts after they are emptied.
- If a material pallet empties before job completion, the system will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



Specifications

		FS2512T	FS3012T	FS3015T
Sheet size (Y x X)	Maximum	1250 mm x 2500 mm	1250 mm x 3050 mm	1525 mm x 3050 mm
	Minimum	300 mm x 750 mm		
Material thickness		0.6 mm ~ 4.5 mm		
Max. stack weight		2 tons		
Max. stack height (including wooden pallet)		260 mm	235 mm	
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)		
Power supply		14 kVA		

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



() : M3058TG & FS3015T

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

Flexible finished parts sorting and stacking systems



Applicable machine model

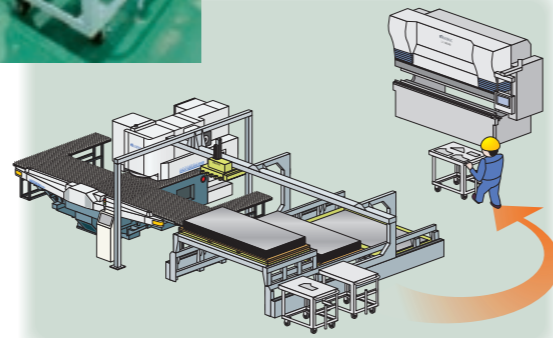
- M2548TS / M2558TS
- M3048TG / M3058TG
- M2048HL / M2558HL
- NPS01

■ External manual operated cart (Option)



Features

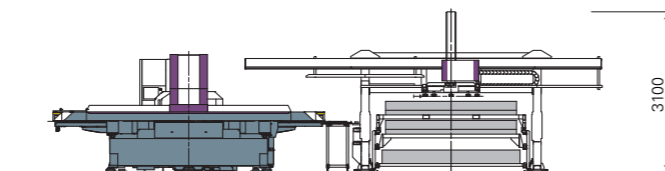
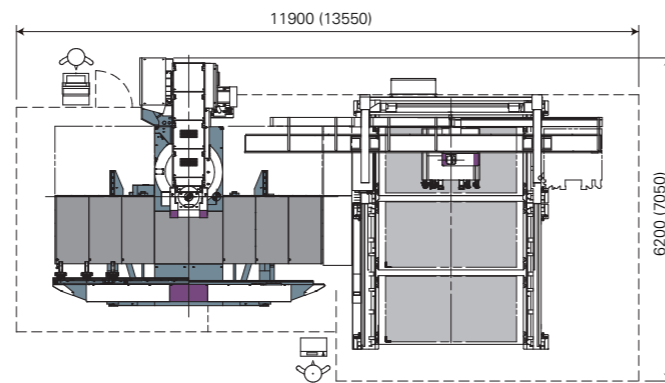
- Full Sheet or micro-jointless parts production.
- A variety of system configurations are available for customer's production requirements.
- Small parts up to full sheets can be unloaded.
- Flexible multi-pad loader configuration allows most part sizes and hole intensive parts to be picked up.
- System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



Specifications

		FG2512	FG3015
Sheet size (Y x X)	Maximum	1250 mm x 2500 mm	1525 mm x 3050 mm
	Minimum	300 mm x 500 mm	
Material thickness		0.6 mm ~ 4.5 mm	
Finished part size (Y x X)	Maximum	1250 mm x 2500 mm	1525 mm x 3050 mm
	Minimum	100 mm x 80 mm	
Max. stack weight		2 tons	
Max. stack height (including wooden pallet)		260 mm	235 mm
Compressed air	Quantity	900 NL (0.9 m³/min)	1300 NL (1.3 m³/min)
	Pressure	0.5 MPa (5 kg/cm²)	
Power supply		8 kVA	13 kVA

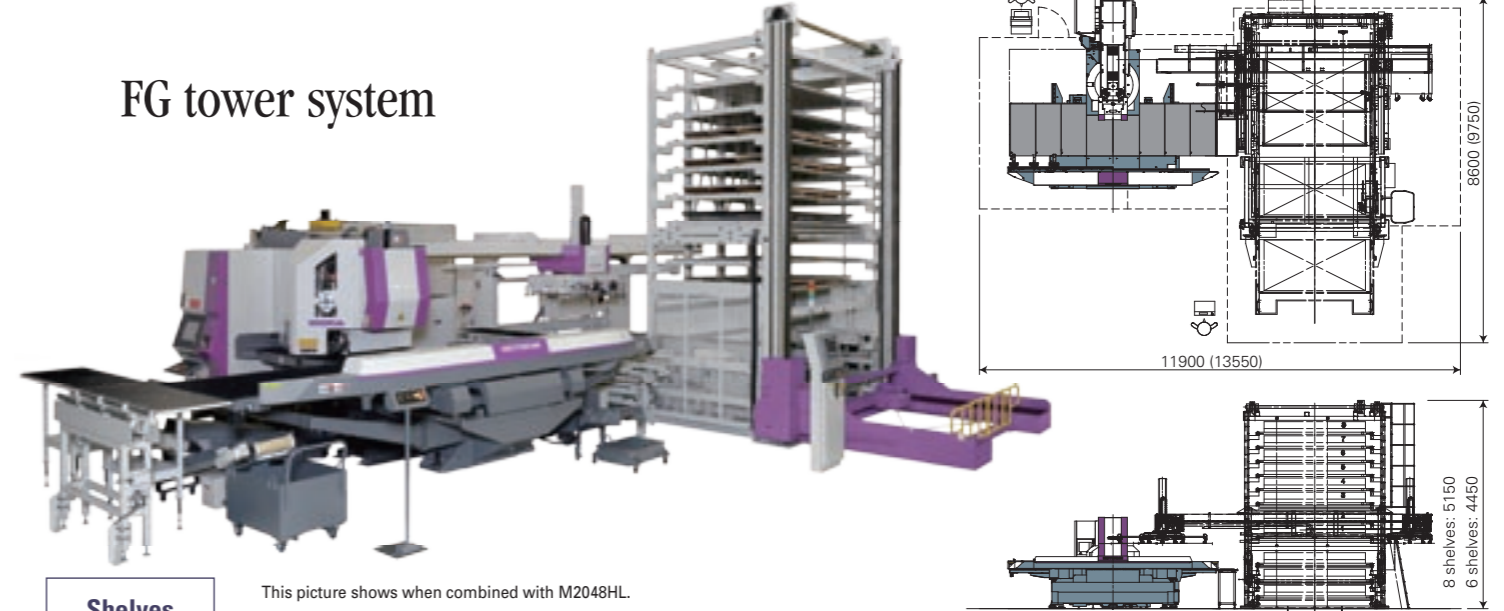
*Above compressed air and power supply are excluding main machine's.



() : M3058TG & FG3015

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

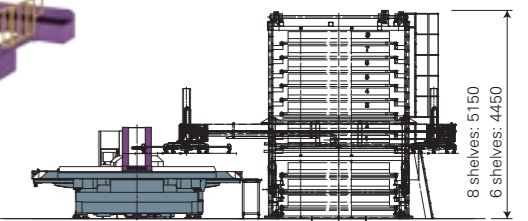
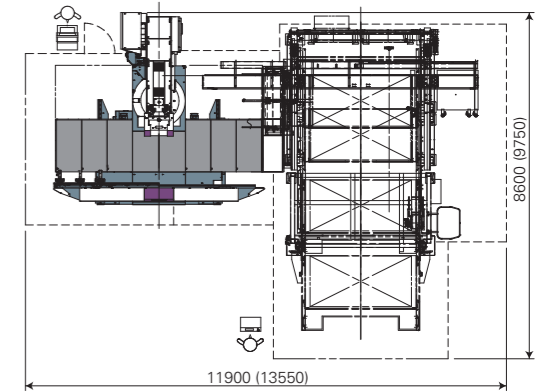
FG tower system



Shelves

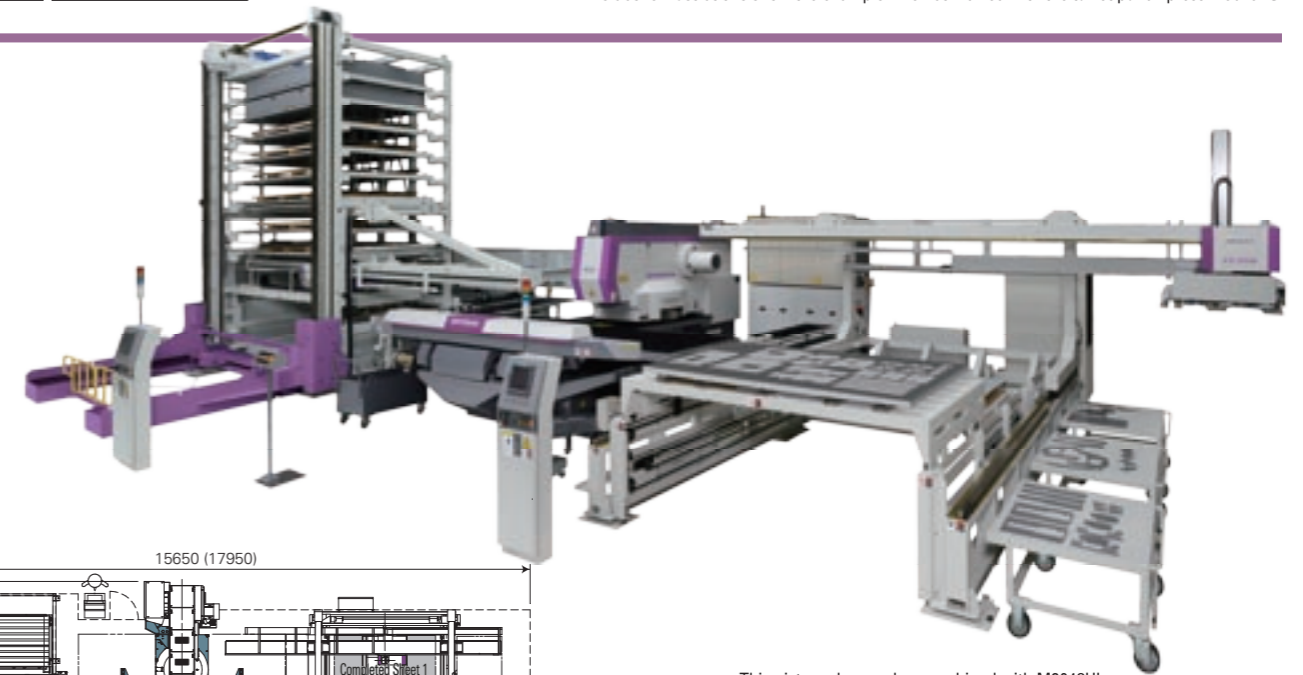
This picture shows when combined with M2048HL.

Number of shelves 6 or 8

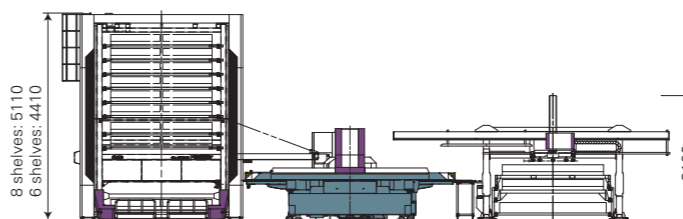
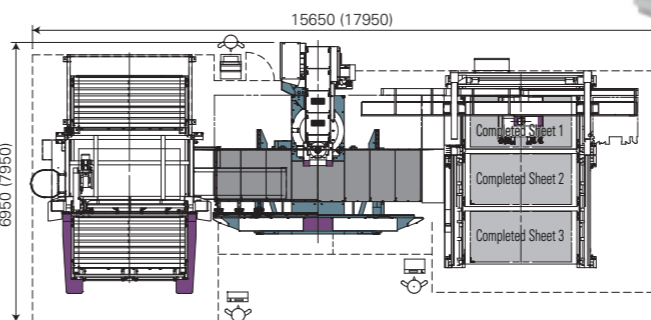


() : M3058TG & FG3015T

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



This picture shows when combined with M2048HL.



() : M3058TG & FG3015T

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

Tower for material and FG combination system

Shelves

Number of shelves 6 or 8

M2048 TE



M2048 TS



M2548 TS / M2558 TS



M3048 TG / M3058 TG



M2048 HL / M2558 HL



M5000



	M2048 TE	M2048 TS	M2548 TS M2558 TS	M3048 TG M3058 TG	M2048 HL M2558 HL	M5000	NPS 01
SL1250	●	●					
FS2512 FS3012 FS3015	●	●	●	●	●	●	●
FS2512T FS3012T FS3015T	●	●	●	●	●	●	●
FG2512 FG3015			●	●	●		●

