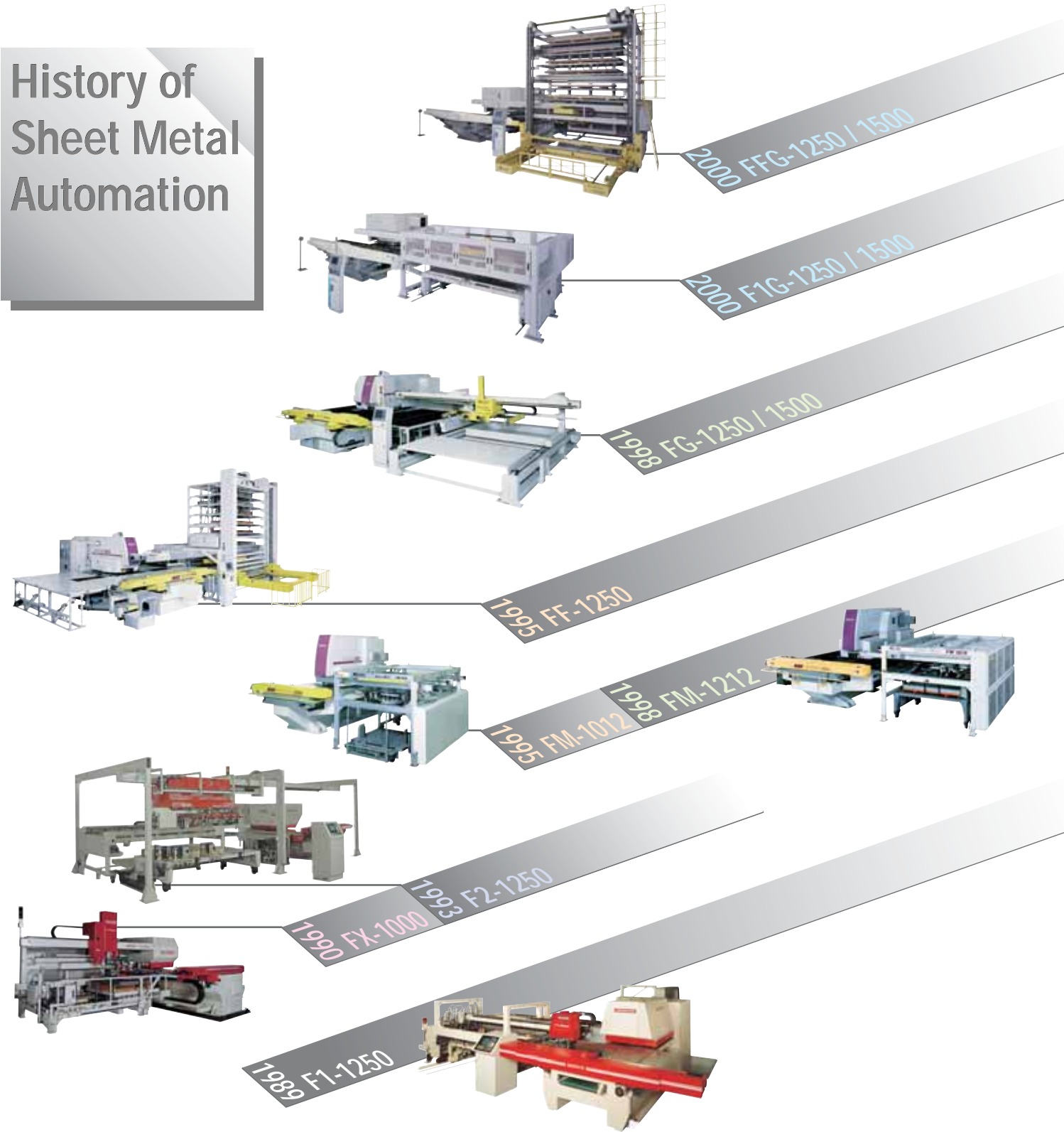


History of Sheet Metal Automation



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

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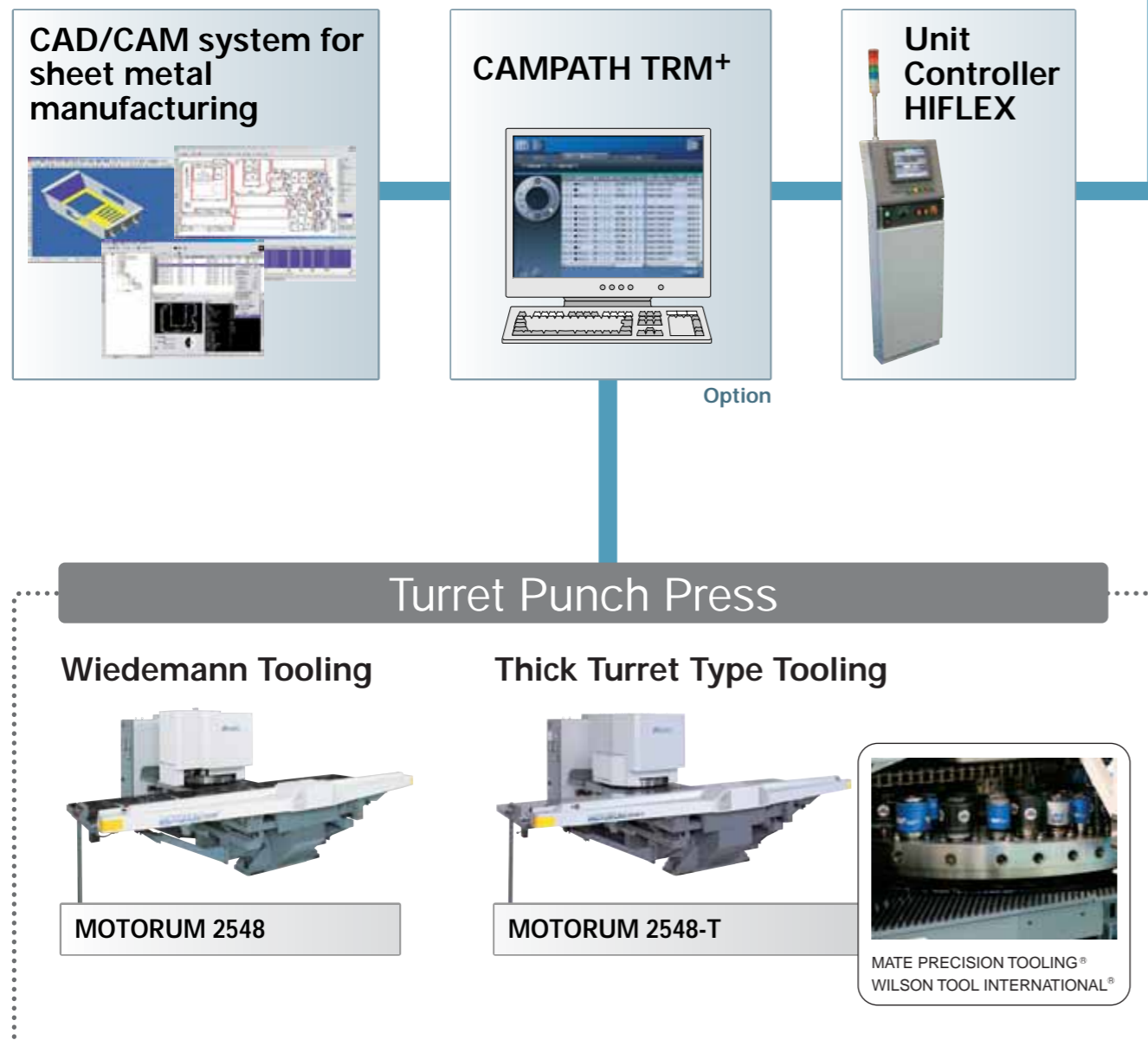
Sheet Metal Automation



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 years of experience of 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.



Standard Loader Systems

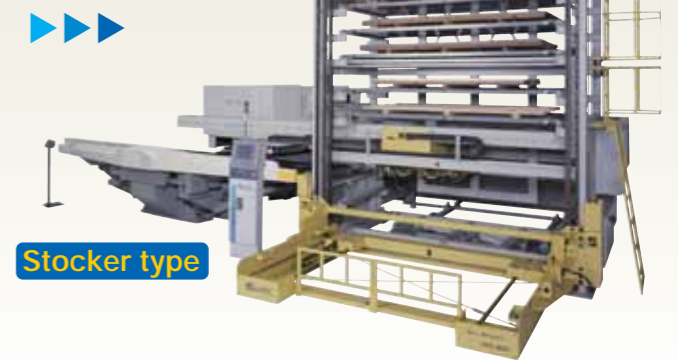
Compact, same side full sheet load / unload

F1G series



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

FFG series



Flexible finished parts sorting and stacking systems

FG series



*Option is included in these pictures.

■ Magnets & air blow

When picking up material, these assist in blank sheet separation.



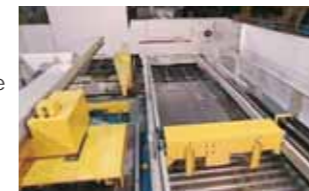
■ Single sheet confirmation

Blanks are measured for material thickness to confirm single sheet pick-up.



■ Stock conveyor

Finished parts are transferred onto the finished parts pallet to minimize scratching.



■ Scissor lift table

Automatically adjusts finished part stack height for gentle and accurate unloading.



■ Material edge detection

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



■ Material positioning

Loader positioning pads locate sheet on the turret with a high degree of accuracy.



■ Multi pads

For FG pick and sort operations, allows pick-up of non-ferrous and hole intensive parts.



■ Additional finished parts carts (Option)

Additional locations for FG parts to be sorted and stacked. Carts can be used to transport parts.



Full sheet load / unload systems F1G-1250/F1G-1500

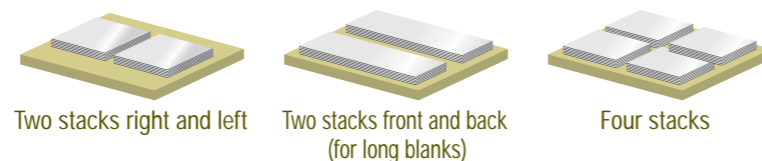
Compact, same side full sheet load / unload



- Applicable machine model**
- MOTORUM 2548 / MOTORUM 2558
 - NPS-01
 - MAGNUM 5000

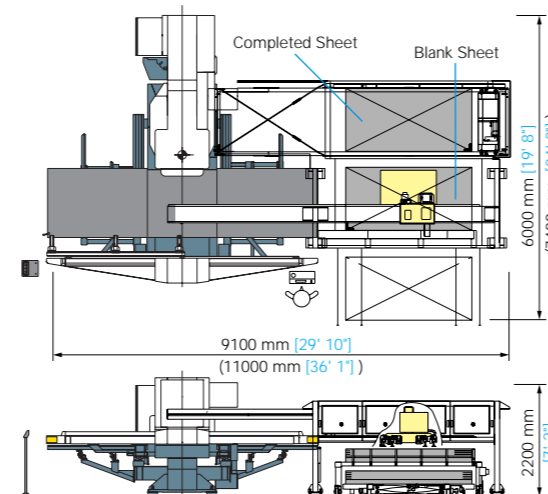
Features

- 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.
- Multiple stack operation allows parts with forms to go from 1 or 2 to 2 or 4 stacks.
- Fanuc control system uses servo motor drives for high speed accurate positioning.



		F1G-1250		F1G-1500
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 (0.4 m ³ /min)		
	Pressure	0.5 MPa (5 kg/cm ²) [71 PSI]		
Power supply		8 kVA		10 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 MOTORUM 2548.

Full sheet load / unload stocker systems FFG-1250/FFG-1500

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



- Applicable machine model**
- MOTORUM 2548 / MOTORUM 2558
 - NPS-01
 - MAGNUM 5000

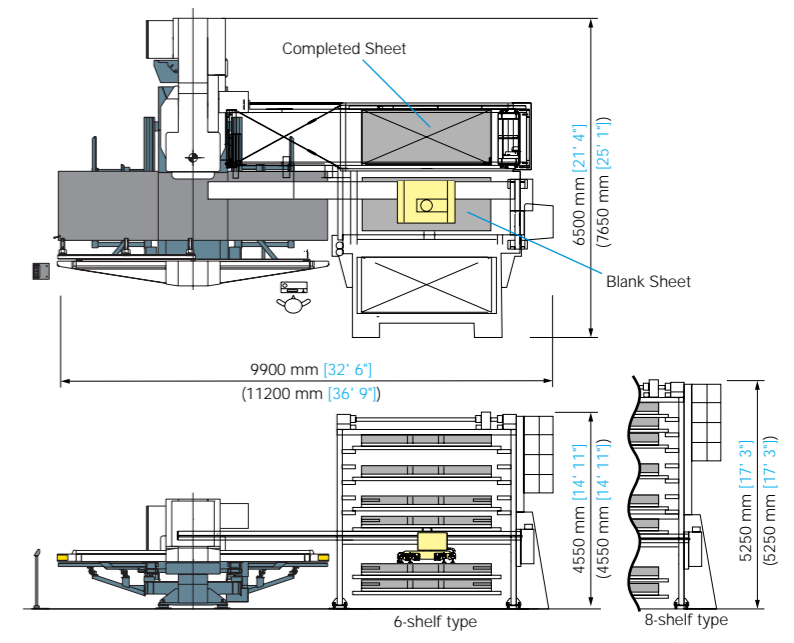
Features

- 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.

Specifications

		FFG-1250	FFG-1500
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"]
	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 (0.4 m ³ /min)	
	Pressure	0.5 MPa (5 kg/cm ²) [71 PSI]	
Power supply		13 kVA	14 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 MOTORUM 2548.

Individual parts pick and sort systems FG-1250/FG-1500

Flexible finished parts sorting and stacking systems



Applicable machine model

- MOTORUM 2548 / MOTORUM 2558
- NPS-01

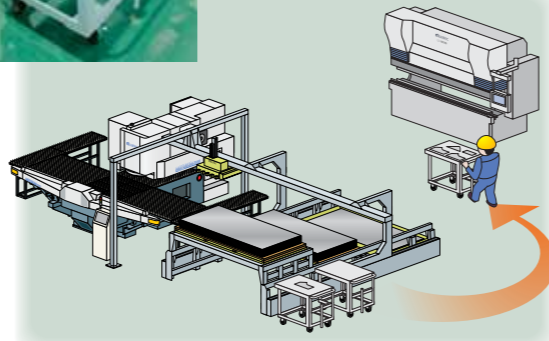
This picture shows when combined with MOTORUM 2558.

External manual operated cart (Option)



Features

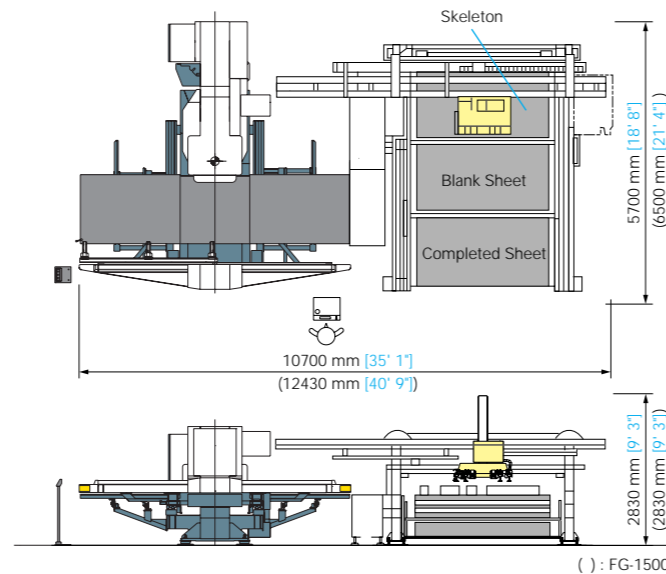
- Full Sheet or micro-jointless parts production.
- A variety of system configurations are available for customer's production requirements.
- Small parts up to full sheets can be unloaded.
- Flexible multi-pad loader configuration allows most part sizes and hole intensive parts to be picked up.
- System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



Specifications

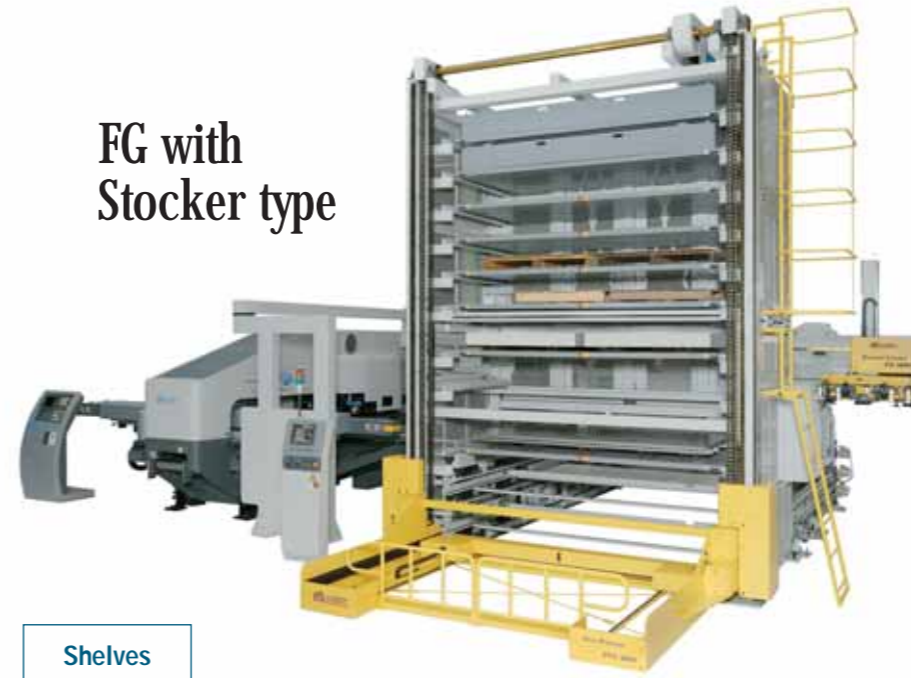
		FG-1250	FG-1500
Sheet size (Y x X)	Maximum	1250 mm x 2500 mm [49.21" x 98.43"]	1525 mm x 3050 mm [60.03" x 120.07"]
	Minimum	300 mm x 500 mm [11.81" x 19.68"]	
MATERIAL THICKNESS		0.6 mm ~ 4.5 mm [0.02" ~ 0.18"]	
Finished part size (Y x X)	Maximum	1250 mm x 2500 mm [49.21" x 98.43"]	1525 mm x 3050 mm [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 ³ /min)	1300 NL (1.3 m ³ /min)
	Pressure	0.5 MPa (5 kg/cm ²) [71 PSI]	
Power supply		8 kVA	13 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 MOTORUM 2548.

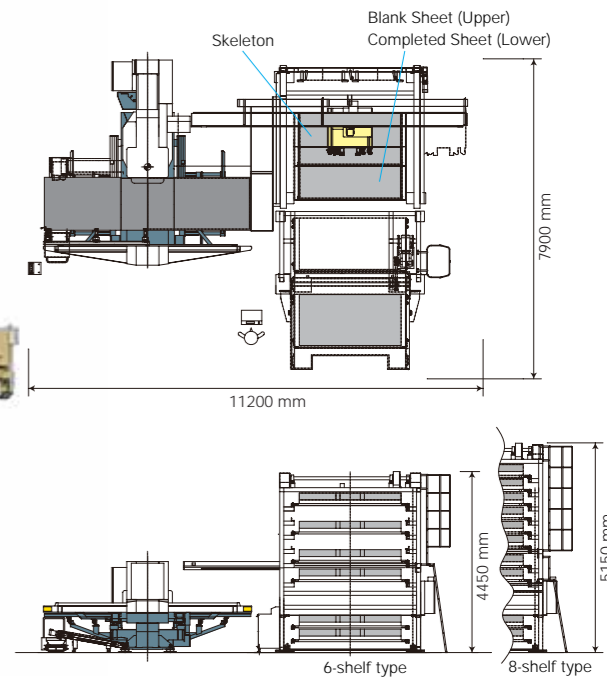
FG with Stocker type



Shelves

Number of shelves	FG-1250/1500 FG with Stocker type
	6 or 8

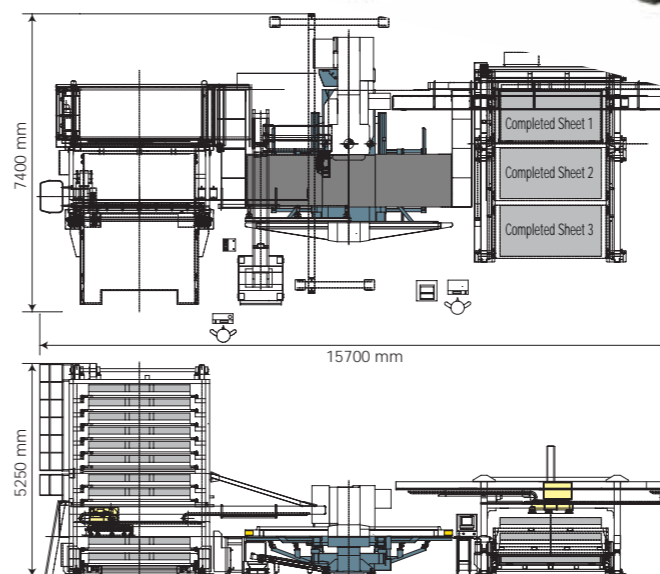
This picture shows when combined with NPS-01.



*The above illustrations show the example when combined with the turret punch press MOTORUM 2548.



Stocker and FG combination



Shelves

Number of shelves	FG-1250/1500 Stocker and FG combination
	6 or 8

*The above illustrations show the example when combined with the turret punch press MOTORUM 2548.