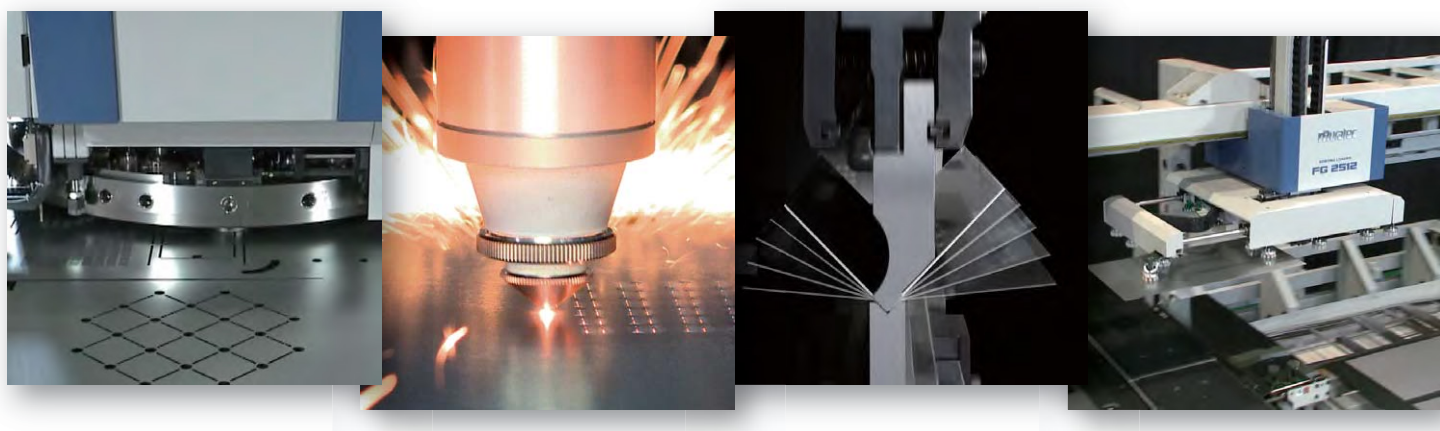


General Catalogue of
Sheet Metal Processing Machine



Wiedemann to Muratec

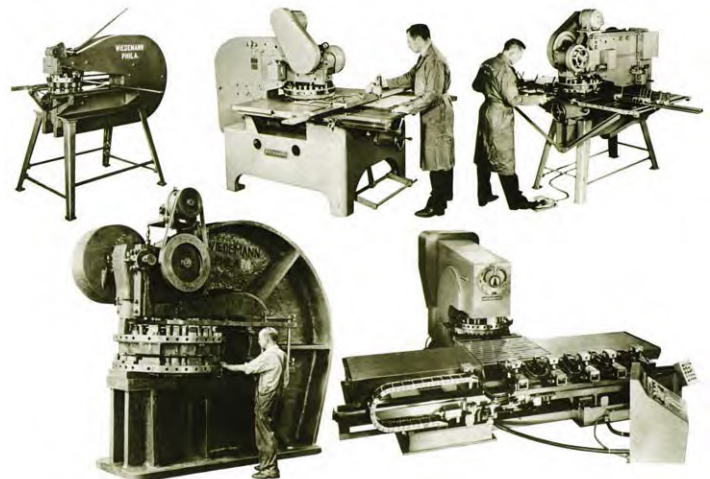
Wiedemann Company was established in Philadelphia/USA in 1916. Wiedemann has been a pioneer in the sheet metal fabrication industry and introduced world first NC turret punch press in the world at the IMTS show in Chicago in 1955.

After being purchased by Warner & Swasey they introduced the first CNC turret punch press the S series in 1964. In 1970 Muratec made joint venture with Warner & Swasey and exhibited S2550 at JIMTOF and started sales in Japan. In 1972, W4560 Mach II was introduced at the IMTS in Chicago. Muratec starts to manufacture S series punch press in Japan with technical cooperation. Murata Machinery continuously developed new designs of machines such as plasma hybrid, Laser hybrid and FMS system to the world. 1989 Muratec purchases Wiedemann and markets machines all over the world.



[History]

- 1916 Establish Wiedemann Company
- 1934 Designed first turret punch press without center post
- 1935 Establish Nishijin Jacquard Manufacture (Former company of Murata Machinery)
- 1964 Introduced S series punch press at IMTS in Chicago
- 1971 Technical cooperation agreement on NC Turret Punch press Between Warner & Swesey and Murata Machinery
- 1972 Introduced W4560 MachII at IMTS in Chicago Start manufacture and sales S2550, S4050 punch press in Japan
- 1984 Introduced first laser hybrid punch press in Japan
- 1994 Introduced worlds first electric servo driven punch press "MOTORUM 2000"
- 2004 Introduced turret changing system "NPS-01" at EuroBlech in Germany
- 2011 Introduced general Press Brake BH, BB series
- 2012 Introduced Fiber Laser machine LS3015FC
- 2017 Introduced Laser Sorting Loader Stacking System FG series
- 2018 Introduced Fiber Laser machine LS3015GC
- 2019 Introduced Fiber Laser Combination Solution LS2512HL Introduced Fiber Laser Punch Press MF3048HL Introduced Fiber Laser machine LS2512GC



The Muratec Mission

Muratec is committed to providing solution to our customer's requirements. Muratec will provide innovative sheet metal product that are flexible for today's fabrication challenges that are reliable and productive.

Line up

CNC Servo Motor Driven Ram Turret Punch Press



Fiber Laser Punch Press



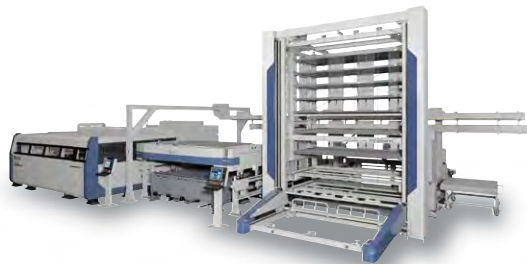
Fiber Laser Cutting System



Fiber Laser Combination Solution



Automation Option



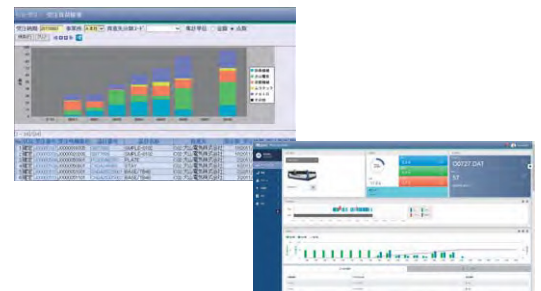
Press Brake



Deburring Machine

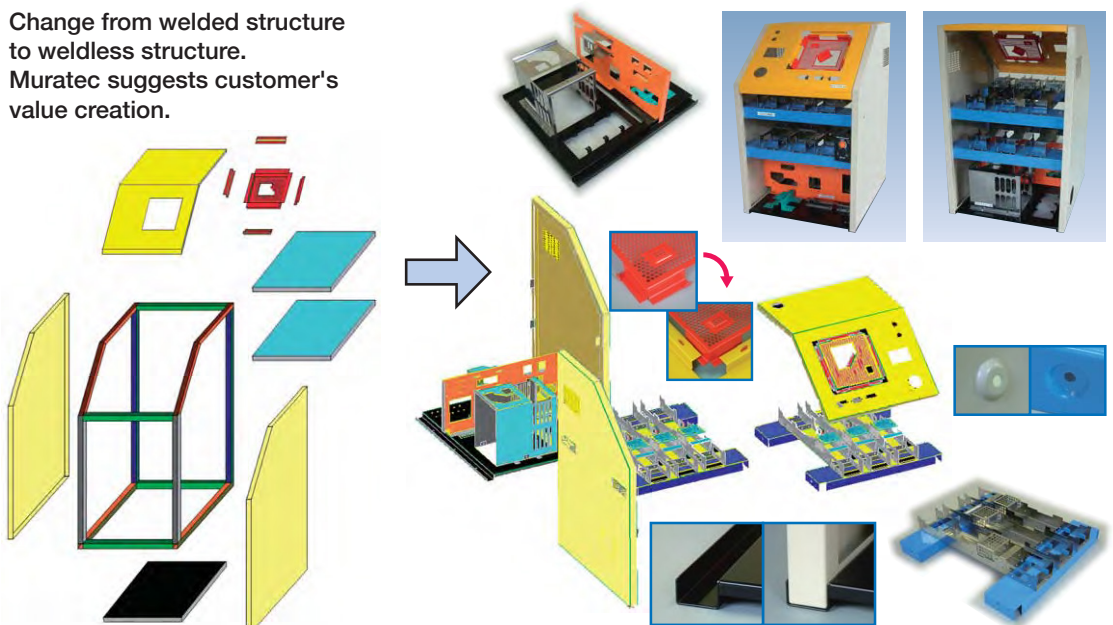


Software



Process Innovation

Change from welded structure to weldless structure. Muratec suggests customer's value creation.



MOTORUM Series

CNC Servo Motor Driven Ram Turret Punch Press

Muratec introduced the world to the first electric AC servo ram drive punch press in 1994. This technology reduces operating costs while simultaneously conserving the world's natural resources.

TG

M3048TG

300 kN (33 US)
4' x 8' size sheet
1250 x 2500 mm



	M3048TG	M3058TG	M30510TG
Punching capacity	300 kN (30.6 tons) 33 US tons		
Max. sheet thickness	6.35 mm 0.25"		
Max. sheet size (Y x X)	Without-repositioning	1250 x 2500 mm 49.21" x 98.43"	1525 x 2500 mm 60.04" x 98.43"
	With-one reposition	1250 x 5000 mm 49.21" x 196.85"	1525 x 5000 mm 60.04" x 196.85"
Simultaneous axis speed	125 m/min. 4920"/min		
No. of turret stations (Wiedemann style)	44 / 54		
No. of turret stations (Spring style)	46		

TS

M2048TS

200 kN punching (22 US)
4' x 8' size sheet
1250 x 2500 mm



	M2044TS	M2048TS	M2548TS	M2558TS
Punching capacity	200 kN (20.4 tons) 22.4 US tons		250 kN (25.5 tons) 27.5 US tons	
Max. sheet thickness (Mild steel)	6.35 mm 0.25"			
Max. sheet size (Y x X)	Without-repositioning	1250 x 1250 mm 49.21" x 49.21"	1250 x 2500 mm 49.21" x 98.43"	1525 x 2500 mm 60.04" x 98.43"
	With-one reposition	1250 x 2500 mm 49.21" x 98.43"	1250 x 5000 mm 49.21" x 196.85"	1525 x 5000 mm 60.04" x 196.85"
Simultaneous axis speed	125 m/min 4920"/min			
No. of turret stations (Wiedemann style)	44 / 54			
No. of turret stations (Spring style)	46			

TE

M2048TE

200 kN punching (22 US)
4' x 8' size sheet
1250 x 2500 mm



	M2048TE	
Punching capacity	200 kN (20.4 tons) 22 US tons	
Max. sheet thickness (Mild steel)	6.35 mm 0.25"	
Max. sheet size (Y x X)	Without-repositioning	1250 x 2500 mm 49.21" x 98.43"
	With-one reposition	1250 x 5000 mm 49.21" x 196.85"
Simultaneous axis speed	117 m/min 4567"/min	
No. of turret stations (Wiedemann style)	28 / 32	



Muratec has been contributing to protect environment by producing ECO friendly machine. MOTORUM Series has been certified MF Eco machine admitted by Japan Forming Machinery Association.

Approved Machines

- M2044TC
- M2048TE
- M2048TS, M2548TS, M2558TS
- M3048TG, M3058TG

MOTORUM Series

CNC Servo Motor Driven Ram Turret Punch Press

TC

M2044TC

200 kN (22 US)
4' x 4' size sheet
1250 x 1250 mm

		M2044TC
Punching capacity		200 kN (20.4 tons) 22 US tons
Max. sheet thickness (Mild steel)		6.35 mm 0.25"
Max. sheet size (Y x X)	Without-repositioning	1250 x 1250 mm 49.21" x 49.21"
	With-one reposition	1250 x 2500 mm 49.21" x 98.43"
Simultaneous axis speed		106 m/min 4173"/min
No. of turret stations (Wiedemann style)		18 / 22



MOTORUM Series HL Model

Laser Punch Combination Machine

HL

M2048HL

250 kN (27.5 US)
5' x 10' size sheet
1500 x 3000 mm

CO₂Laser

		M2558HL
Punching capacity		250 kN (25.5 tons) 27.5 US tons
Max. sheet thickness		6.35 mm 0.25"
Max. sheet size (Y x X)	Without-repositioning	1525 x 2500 mm 60.04" x 98.43"
	With-one reposition	1525 x 5000 mm 60.04" x 196.85"
No. of turret stations (Wiedemann style)		44 / 54
Laser oscillator		Fast axial glass flow type, CO ₂ laser
Rated laser output		2.0 kW / 4.0 kW



Hybrid series combines the best of punching and forming with the flexibility of laser cutting. This machine increases overall productivity through the integration of bending, forming, tapping and other processes with standard punching and laser cutting operation.

MF Series

Fiber Laser Punch Press

HL

MF3048HL

300 kN (33 US tons)
Rotate output 3.0 kW, 4.0 kW
4' x 8' Size sheet
1250 x 2500 mm

Fiber Laser

		MF3048HL	MF30510HL
Punching capacity		300 kN (30.6 tons) 33 US tons	
Max. sheet thickness		6.35 mm	
Max. sheet size (Y x X)	Without-repositioning	1250 mm x 2500 mm 49.21" x 98.43"	1525 mm x 3050 mm 60.04" x 120.08"
	With-one reposition		
No. of turret stations (Wiedemann style)		44 / 54 / 56	
Laser oscillator		LD excitation of fiber laser	
Rated laser output		3.0 kW / 4.0 kW	



With 30-tons of punching capacity and an added fiber laser, the MF series provides seamless value added processing in a single machine.

MAGNUM Series

Turret Punch Press



MAGNUM

M5000

441 kN (50 US)
5' x 10' size sheet
1500 x 3000 mm

		M5000	
Punching capacity		441 kN (45 tons) 50 US tons	
Max. sheet thickness (Mild steel)		9.5 mm 0.375"	
Max. sheet size	Without-repositioning	1525 x 1830 mm 60.04" x 72.05"	1525 x 2500 mm 60.04" x 98.43"
	With-one reposition	1525 x 3660 mm 60.04" x 144.09"	1525 x 5000 mm 60.04" x 196.85"
Simultaneous axis speed		91 m/min 3582"/min	56 m/min 2204"/min
No. of turret stations (Wiedemann style)		52 / 54 / 57	

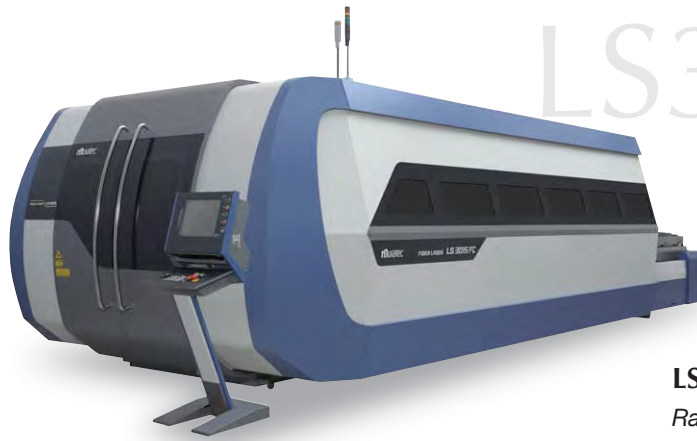
The Magnum is our heaviest tonnage turret punch press with a history of proven features with the most economical tooling style in the world.

LS series

Fiber Laser Cutting System

Fiber Laser machine, pursuing perfection in Sheet Metal Processing. Utilizing unique control system enables high precision and high speed processing.

Standard Fiber Laser machine pursuing flexibility. Perfecting low center of gravity, high rigidity frame design and unique control system enables high productivity in a wide range of field.



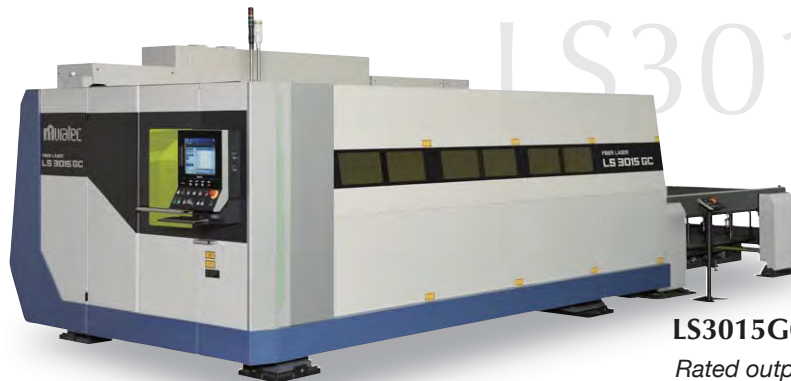
LS3015FC

Fiber Laser

LS3015FC

Rated output 3.0 kW, 4.0 kW, 6.0 kW

LS3015FC	
Maximum cutting area (X × Y × Z)	3,070 mm × 1,550 mm × 95 mm [120.86" × 61.02" × 3.74"]
Maximum material weight	600 kg [1,322 lbs]
Fast traverse speed	340 m/min (XY simultaneous) [13,385"/min]
Positioning accuracy	+/-0.01 mm [+/-0.0004"]
Repeat accuracy	+/-0.01 mm [+/-0.0004"]
Oscillation method	LD excitation of fiber laser
Rated output	3.0 kW / 4.0 kW / 6.0 kW
Laser wavelength	1.07 μm



LS3015GC

Fiber Laser

LS3015GC

Rated output 3.0 kW, 4.0 kW, 6.0 kW

LS3015GC	
Maximum cutting area (X × Y × Z)	3,070 mm × 1,550 mm × 100 mm [120.86" × 61.02" × 3.93"]
Maximum material weight	920kg [2,028 lbs]
Fast traverse speed	170 m/min (XY simultaneous) [6693"/min]
Positioning accuracy	+/-0.03 mm [+/-0.0011"]
Repeat accuracy	+/-0.03 mm [+/-0.0011"]
Oscillation method	LD excitation of fiber laser
Rated output	3.0 kW / 4.0 kW / 6.0 kW
Laser wavelength	1.07 μm

LS series

Fiber Laser Combination Solution

Leveraging the high-speed precision of fiber laser cutting and the accurate forming and tapping performance synonymous with Muratec's punch press technology, the Hybrid Laser provides superior quality and significant throughput increases.



HL

Fiber Laser

LS3015HL

Rated output 3.0 kW, 4.0 kW, 6.0 kW

	LS2512HL	LS3015HL
Maximum cutting area (X × Y × Z)	2525 mm × 1265 mm × 100 mm [99.40" × 49.80" × 3.94"]	3070 mm × 1550 mm × 100 mm [120.87" × 61.02" × 3.94"]
Maximum material weight	620 kg	920kg
Fast traverse speed	170 m/min (XY simultaneous)	[6693"/min]
Positioning accuracy	+/-0.01 mm	[+/-0.0004"]
Repeat accuracy	+/-0.01 mm	[+/-0.0004"]
Oscillation method	LD excitation of fiber laser	
Rated output	3.0 kW / 4.0 kW / 6.0 kW	
Laser wavelength	1.07 μm	
Mounting unit	Forming / Tapping	

Press Brake

BH series enables high-speed drive by Dual Drive system and BB series enables high productivity by AC servo motor and ball screw drive are possible to utilize in a wide range of field as a general press brake machine.

Dual Drive Press Brake

BH series



BH series

Muratec's Dual Drive Press Brake BH Series is mounted with a Dual Drive System which separately controls high-speed up and down movement of the ram by AC servo motor, ball screw drive and hydraulic piston down movement. The system enables high-speed drive and stable repeat-stop accuracy to realize high productivity. In addition, the Dual Drive System is superior in total energy saving because it is fitted with a assist device that stores the energy of down movement and returns it during ram up movement.

	BH8525	BH13530	BH18530	BH18540	BH25030	BH25040
Press force	85 ton (833 kN)	135 ton (1323 kN)	185 ton (1813 kN)	185 ton (1813 kN)	250 ton (2450 kN)	250 ton (2450 kN)
Bending length	2600 mm	3100 mm	3100 mm	4100 mm	3100 mm	4100 mm

Automatic Tool Tower

TT32



The Automatic Tool Tower is an optimal solution for reducing set-up change times for high variety, low volume production. The TT32 can greatly improve the amount of time and labor required of operators to carry out tool setup changes for each program, thereby increasing productivity.

No. of tools stored (standard specification)	Upper tool: 3 racks (4 cassettes per rack)
	Lower tool: 4 racks (5 cassettes per rack)
Tool layout length	Maximum 32 m of storage
Tool layout length	20 mm to 3,060 mm

Ball Screw Press Brake

BB series



Muratec Ball Screw Press Brake BB series is driven by AC servo motor and ball screw mechanism. It has reached high productivity with a fast ram and back gauge plus extremely consistent repeat accuracy.

	BB306	BB4013	BB6013	BB6020
Press force	28 ton (270 kN)	36 ton (353 kN)	55 ton (539 kN)	55 ton (539 kN)
Bending length	630 mm	1260 mm	1300 mm	2100 mm

BB series

Deburring Machine

MURATEC DB series remove punched burrs or lasered dross, no matter what shapes they are, while minimizing scratches over the surface.

Deburring Machine

DB series

DB1000S



	DB600R	DB1000R	DB1000S	DB1500S
MAX. Workpiece size	Width	600 mm	1,000 mm	1,550 mm
	Height	50 mm	80 mm	65 mm
Dimensions	W1,050 × D1,600 × H1,660 mm	W2,170 × D2,100 × H1,950 mm	W1,900 × D2,500 × H2,266 mm	W2,298 × D2,900 × H2,260 mm

DB series

Automation Options

The Motorum series has standard automation options with auto-load/unload and sorting systems. Muratec has the automation solution for speed, productivity, flexibility in a compact design.

Cell Loader FS series

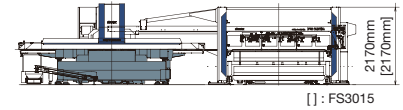
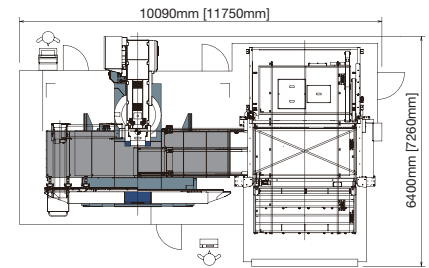
- Simple, high speed loading system
- Economical high performance system automation
- Multiple stacking options available

Standard system

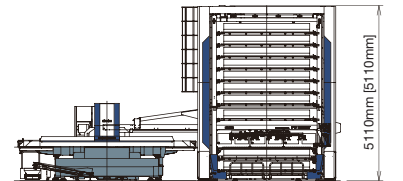
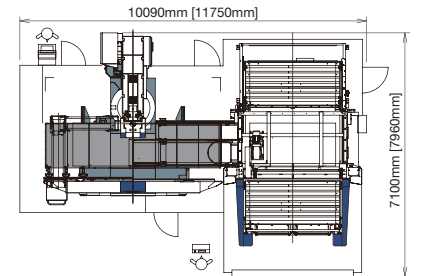


FS

Stocker system



[] : FS3015

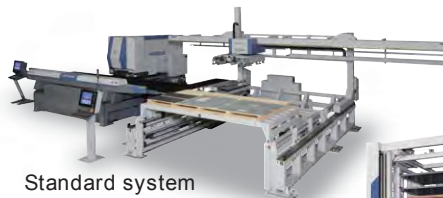


[] : FS3015T

		FS2512	FS3015	FS2512T	FS3015T
Sheet size (Y x X)	Maximum	1250 mm x 2500 mm [49.21° x 98.43°]	1525 mm x 3050 mm [60.04° x 120.07°]	1250 mm x 2500 mm [49.21° x 98.43°]	1525 mm x 3050 mm [60.04° 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	
Installation height of stocker		-		6 shelf type:4410 mm 8 shelf type:5110 mm	

Sorting Loader FG series

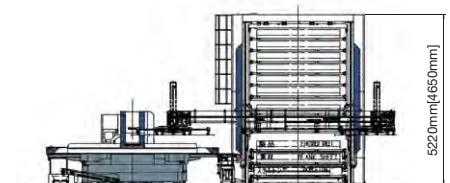
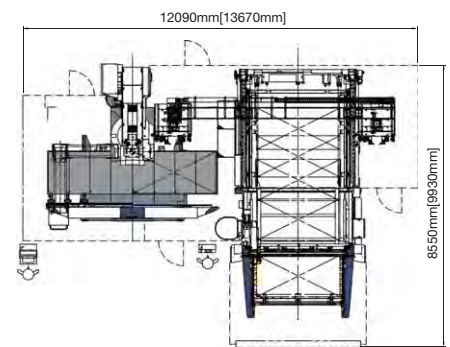
- Micro jointless parts production
- Flexible stacking system
- Reduction of work in process operation



Standard system

FG

Stocker system



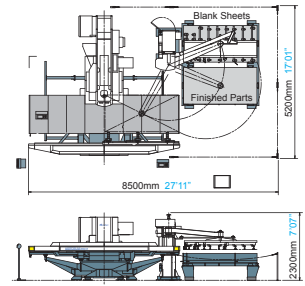
[] : FG3015T

		FG2512	FG3015	FG2512T	FG3015T
Sheet size (Y x X)	Maximum	1250 mm x 2500 mm [49.21° x 98.43°]	1525 mm x 3050 mm [60.04° x 120.07°]	1250 mm x 2500 mm [49.21° x 98.43°]	1525 mm x 3050 mm [60.04° 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°]			
Max. stack weight		2 tons [2.2 US tons]			
Max. stack height (including wooden pallet)		260 mm [10.23°]	235 mm [9.25°]	260 mm [10.23°]	190 mm [7.48°]
Number of shelves		-		6 or 8	
Installation height of stocker		-		6 shelf type:4520 mm 8 shelf type:5520 mm 6 shelf type:4050 mm 8 shelf type:4650 mm	

Automation Options

Swing Loader SL2512

- Compact system for supporting automated production
- Automatic Load / Unload operations
- Automatic Load / Manual Unload operations



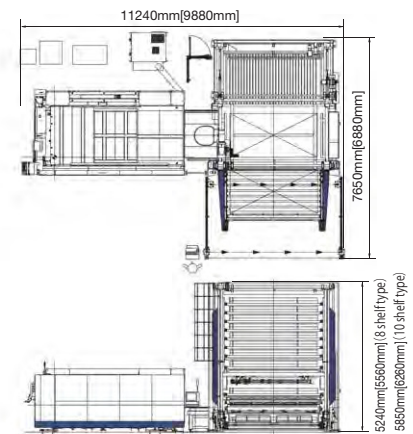
		SL2512
Sheet size (Y x X)	Maximum	1250 x 2500 mm [49.21" x 98.43"]
	Minimum	300 x 750 mm [11.81" x 29.52"]
Material thickness		0.6 mm - 3.2 mm [0.02" - 0.13"]
Max. stack weight		3 tons [3.3 US tons (6600 LBS)]
Max. stack height (including wooden pallet)		320 mm [12.6"]

		SL2512
Rated laser output	Quantity	400 NL/min (0.4 m ³ /min)
	Pressure	0.49 MPa (5.0 kgf/m ³) [71 PSI]
Power supply		3 kVA

Automation Options

Muratec, a long-time supplier of punch press automation equipment, offers stacking and sorting systems based on its accumulated technology that can also be used with fiber laser processing machines to achieve high productivity.

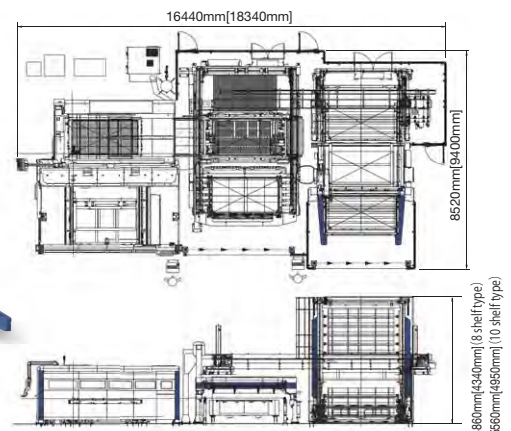
Laser Cell Loader Stacking System FS2512TL / FS3015TL



Muratec's years of automation, innovation & engineering know-how enables stable prolonged production cycle. It's suitable for prolonged laser processing and urgent manual loading.

		FS2512TL	FS3015TL
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	914 mm x 914 mm [35.98" x 35.98"]	
Material thickness		0.5 mm - 6.35 mm (Automatic loader for single sheet) [0.019" - 0.25"] 0.5 mm - 16 mm (Processing pallet operation) [0.019" - 0.62"]	
Max. stack weight		2 tons [2.2 US tons]	
Max. stack height (including wooden pallet)		260 mm [10.24"] (Including wooden pallet height 90mm - 105mm)	190 mm [7.48"] (Including wooden pallet height 90mm - 105mm)
Number of shelves		8 or 10 (Option)	
Installation height of stocker		8 shelf type: 5560 mm 10 shelf type: 6260 mm	8 shelf type: 5240 mm 10 shelf type: 5850 mm

Laser Sorting Loader Stacking System FG2512TL / FG3015TL



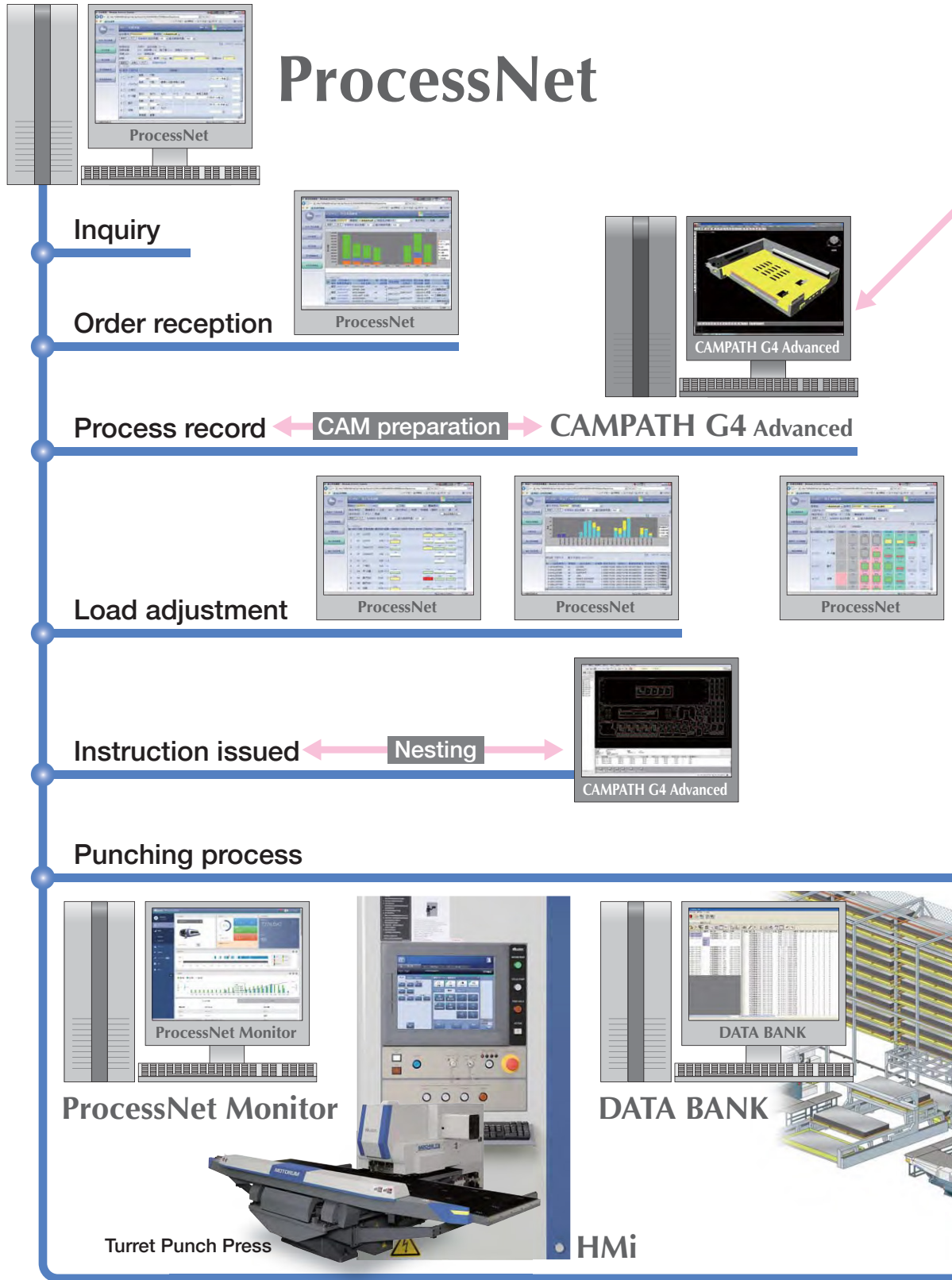
It enables joint removal and parts sorting process reduction, and reduces the scratches when joint removal and parts sorting with keeping high productivity of Fiber Laser machine.

		FG2512TL	FG3015TL
Sheet size (Y x X)	Maximum	1250 mm x 2500 mm [49.21" x 98.43"]	1525 mm x 3050 mm [60.04" x 120.07"]
	Minimum	914 mm x 914 mm [35.98" x 35.98"]	
Material thickness		0.5 mm - 6.35 mm (Automatic loader for single sheet) [0.019" - 0.25"]	
Finished part size (Y x X)	Maximum	1250 mm x 2500 mm [49.21" x 98.43"]	1525 mm x 3050 mm [60.04" x 120.07"]
	Minimum	90 mm x 200 mm [3.54" x 7.87"]	
Max. stack weight		2 tons [2.2 US tons]	
Max. stack height (including wooden pallet)		260 mm [10.24"] (Including wooden pallet height 90mm - 105mm)	190 mm [7.48"] (Including wooden pallet height 90mm - 105mm)
Number of shelves		8 or 10 (Option)	
Installation height of stocker		8 shelf type: 4860 mm 10 shelf type: 5560 mm	8 shelf type: 4340 mm 10 shelf type: 4950 mm

Software

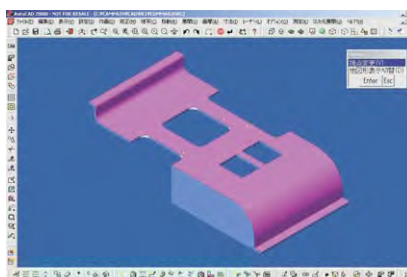
Muratec heard various customer's request and always created the best solution with the customers. Muratec always provides the best solution for the customer of various scale and business with stand-alone machine to cell loader and large systems.

ProcessNet



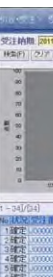
Sheet metal CAD/CAM system CAMPATH G4 Advanced CAMPATH G4 Advanced

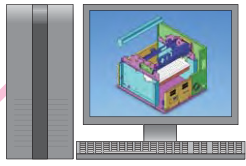
CAMPATH G4 Advanced is equipped with full drawing and editing functions for 3D unfolding figures. Integration of CAD with superior operability to improve operator efficiency and CAM reflects maker's superior knowledge of processing satisfies every needs for sheet metal.



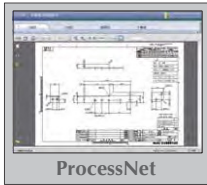
Process management system ProcessNet ProcessNet

The system supports from order reception, process decision, workload adjustment, nesting, processing instruction, result record, progress check and shipment. Automation of record and result analysis shortens operator's work time and achieves high efficiency.

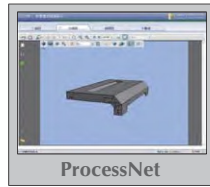




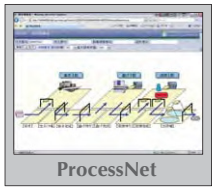
Design CAM



ProcessNet

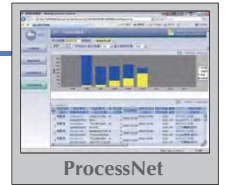


ProcessNet



ProcessNet

Shipping process



ProcessNet

Assembling process

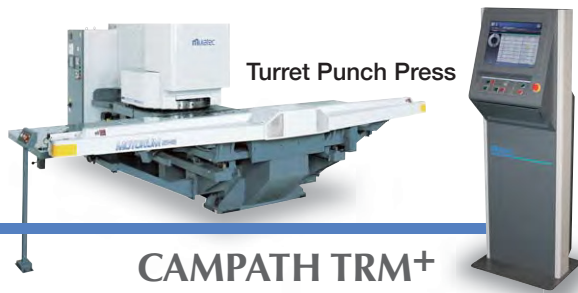
MOS
(Muratec Operating System)



Bending process



Press Brake

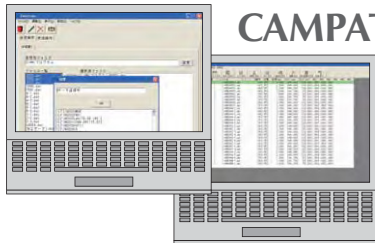


Turret Punch Press

CAMPATH TRM+

CAMPATH TRM

Easy Trans

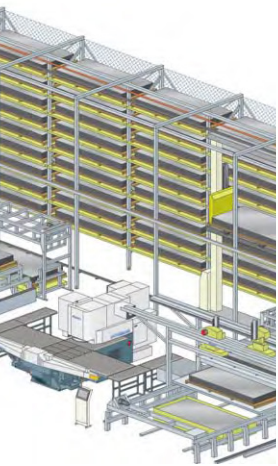


Middle process



Deburring Machine

Sorting process



Turret Punch Press



system

Obtain Operating Conditions

ProcessNet Monitor

ProcessNet Monitor

The system monitors the machine state, alarm history and power consumption.

The machine state can be obtained remotely from a PC connected to the systems network.



項目名	項目番号	材料名	材料	計測日時	消費電力
00727	00727	00727	00727	2011/08/08	410.00.000
00727	00727	00727	00727	2011/08/08	410.00.000
00727	00727	00727	00727	2011/08/08	190.00.000
00727	00727	00727	00727	2011/08/08	170.00.000
00727	00727	00727	00727	2011/08/08	240.00.000
00727	00727	00727	00727	2011/08/08	240.00.000

MURATEC CREATES TECHNOLOGICAL WEALTH

Muratec Machinery is active internationally as a comprehensive factory automation and office automation equipment manufacturer in the fields of textile machines, automated systems, clean systems, machine tools, and communication equipment. Our machine tools offer high speed and precision by implementing the latest control technology in the various types of turning machines, sheet metal machines, punch laser combination machines, and highly automated sheet metal FMS systems. The multitude of applications we offer allow us to respond to increasingly diverse and complex customer needs. In this way Muratec continues successfully to contribute to the streamlining of production systems in many different fields.

MACHINE TOOLS DIVISION

Sheet Metal Machinery

- Turret punch press
- CNC servo motor driven ram turret punch press
- Laser punch press
- Fiber laser cutting system
- Press brake
- Automatic CAD/CAM system for sheet metal working
- Sheet metal FMS



Turning Machinery

- Twin spindle CNC chucker
- Single spindle CNC chucker
- CNC turning center
- In-line opposed twin spindle CNC turning machine
- CNC shaft turning machine
- Self-loading chucker



COMMUNICATION EQUIPMENT

From the very beginning of Japan's entry into the facsimile market, Muratec has been continuously developing facsimile machines that stand on the leading edge of contemporary technology.



TEXTILE MACHINERY



Muratec was the first company to develop for the production of knotless yarn. As a manufacturer of comprehensive textile machinery for everything from yarn to fabric, Muratec is a leading supporter of the world's fashion industry.

LOGISTICS & AUTOMATION



Muratec's Automated Systems range from high rise warehouses, unmanned transporting systems and industrial robots to leading edge factory automation systems.

CLEAN FA



Muratec clean system provides highly automated material handling system for semiconductor industry to improve the precision and reliability of semiconductors, and to enhance productivity.



Inuyama Factory

Location Inuyama-shi, Aichi
Dimension 388,428m²

Company profile

Company name Murata Machinery, Ltd.
Establishment July, 1935
Capital 900,000,000yen
Number of employees 3,700

Headquarters



* The machines shown in the catalogue include some optional items and may vary in appearance from the actual machines.
* Specifications and designs are subject to change without prior notice.

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