

MOTORUM SERIES

M2558 HL

Laser Punch Combination Machine



First to offer the NC turret punch in 1955 and the CNC in 1970, Muratec has been a continuous innovator in sheet metal processing.

Muratec developed a punch-laser combination in 1984. Since then Muratec has strived to offer high quality, high-speed performance Hybrid machines with user friendly technology providing the highest return on investment.

The M2558 HL combines the best of punching and forming with the flexibility of laser cutting. The M2558 HL uses advanced technology incorporating a high performance CNC control and laser oscillator. This system provides a high quality edge cut using many advanced functions such as a cutting monitor, user friendly laser cutting head with crash protection function, non-contact height sensor and laser power control function for complicated edge cutting.

Non-contact type height sensor



Double Part Chute



Small :
235 x 550 mm
[9.2" x 21.7"]



Large :
600 x 550 mm
[23.6" x 21.7"]

One touch lens unit



The Key to Reduced Lead Time

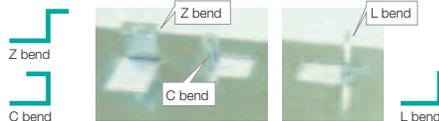
The M2558 HL provides high speed processing with reliability and accuracy. This machine increases overall productivity through the integration of bending, forming, tapping and other processes, with the standard punching and laser cutting operations.

Bending Option

In Turret Bending

The servo drive allows precise stop positioning of the RAM punch, which in turn gives accurate angle control, for Z-bending via index-station processing. Increase in turret feed clearance takes the in turret bending height to a maximum of 20 mm. [0.79"]

- Stations used: Auto-index (F-Station)
- Process types



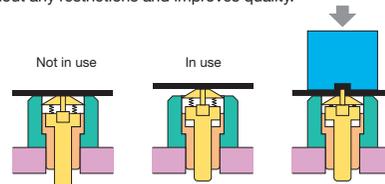
- Sheet thickness: 0.5 mm-1.6 mm [0.02"-0.06"] (Mild Steel)

Forming

Optimum control of RAM speed leads to fast and accurate forming of the highest quality, with minimal distortion of the workpiece.

Retractable forming die function (Option)

Upward forming tool dies are retracted to die height when not in use. This is to avoid interference of the forming die with the workpiece and workholders. This allows free movement of the sheet without any restrictions and improves quality.

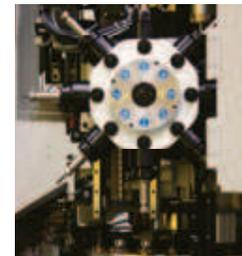


Tapping Option

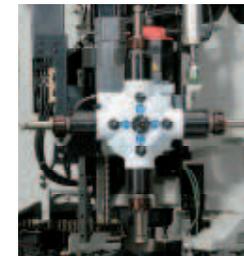
Tapping Units

Two choices of tapping units are available. Synchronization of RPM and feed speed using a servo motor allows tapping with a full range of tapping tools.

- Tap size: M2 ~ M10
- Tapping methods: Machine thread / Rolling thread
- Max. sheet thickness: 6.35 mm [0.25"]



8-Station Tapping Unit



4-Station Tapping Unit

*Specifications vary, depending on type of material, hole diameter, etc.

Tapping Vacuum Unit

Machined cuttings are suctioned away beneath the tapping tool for improved quality.

Tapping Tool Life Monitor

The number of tapping operations is monitored and the operator is notified when a preset count is exceeded.

Deburring operation Option

One tooling. All round deburring operation

Deburring and pinching operation using the ball bearing manufactured originally by Muratec. Two bearings from top and bottom sides removes the burr of the edge both sides, upper and lower, of the punched parts simultaneously by pinching the edge of the punched sheet along with the path.

