



# SOLUTION

## **EM** **MT** SERIES

NEXT GENERATION SERVO ELECTRIC PUNCH MACHINE



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### FURTHER EVOLUTION OF THE EM NT SERIES: SETUP TIME REDUCTION AND PROCESS INTEGRATION

#### AC SERVO DIRECT TWIN DRIVE AND PROCESS INTEGRATION

New technologies have been added to the EM-NT series utilising the world's unparalleled AC servo direct twin drive system. The result is faster, more productive, and higher-grade sheet metal processing. ID tooling and MPT tapping tool options can also drastically reduce setup time and achieve blanking process integration.



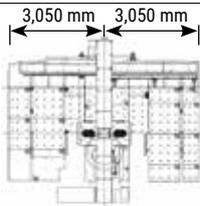
Photograph may include optional equipment

## NEW FEATURES OF EM MII SERIES



### Z/King turret

With the Z turret using upper and lower disks of different diameters, dies can easily be changed from the top of the lower disk, therefore reducing setup time. The Ø 1200mm King turret can accommodate a large range of tools to reduce the number of tool setups required.



### Punching of 3m x 1.5m sheets without repositioning

An X-axis travel distance of 3050 mm (EMZ-3612MII and EMK-3612MII) allows 3m x 1.5m sheets to be punched without repositioning. This helps to achieve fast and stable processing and to reduce complicated programming tasks.



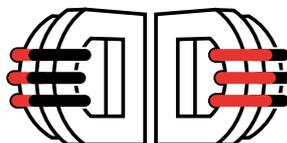
### ID tools

Tool installation mistakes are prevented by digital tool management using a Barcode 2D (Data Matrix code) technology. Combining ID tools with the EM-MII helps to achieve stable tool conditions and improve part quality.



### MPT tapping tools and dedicated tapping stations

Dedicated MPT tapping stations are installed in the turret. Holes can be punched and tapped in the same area. This means that workpieces can be punched and tapped without repositioning. The processing time and program time can be reduced as a result.



AC Servo direct twin drive

## DIMENSIONS \*

Unit : mm

### EMZ-3510MII

(L) 4998 x (W) 5128 x (H) 2342

### EMZ-3612MII

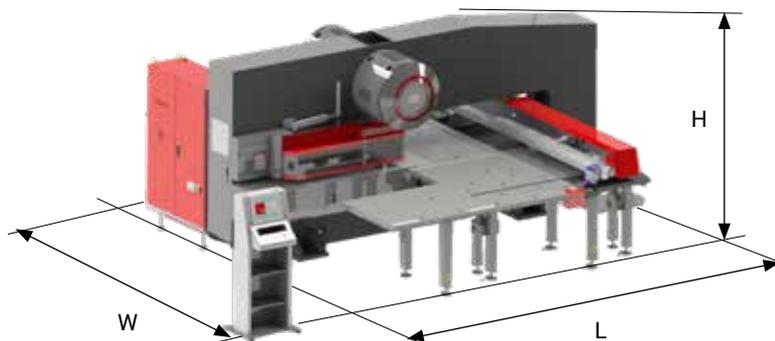
(L) 5436 x (W) 6212 x (H) 2342

### EMK-3510MII

(L) 4998 x (W) 5128 x (H) 2342

### EMK-3612MII

(L) 5436 x (W) 6212 x (H) 2342



\* Without safety equipments

## MACHINE SPECIFICATIONS

| EM-MII Series                  |  |                                    | EMZ-3510MII                            | EMZ-3612MII | EMK-3510MII       | EMK-3612MII |
|--------------------------------|--|------------------------------------|--|-------------|-------------------|-------------|
| Numerical control              |  |                                    | AMNC 3i                                |             |                   |             |
| Punching force                 |  | kN                                 | 300                                    |             |                   |             |
| Drive system                   |  |                                    | AC servo, direct twin drive            |             |                   |             |
| Turret                         |  | Number of stations                 | 45 (4 Auto Index)                      |             | 58 (4 Auto Index) |             |
| Controlled axes                |  |                                    | X, Y, C, T + A                         |             |                   |             |
| Axis travel distance           |  | X x Y<br>mm                        | 2500 x 1270                            | 3050 x 1525 | 2500 x 1270       | 3050 x 1525 |
| Maximum simultaneous feed rate |  | X/Y<br>m/min                       | 144                                    | 128         | 144               | 128         |
| Maximum punching hit rate      |  | 25.4 mm pitch / 5 mm stroke<br>hpm | 500 (X)                                |             |                   |             |
| Positioning accuracy           |  | mm                                 | ± 0.1                                  |             |                   |             |
| Work range without reposition  |  | mm                                 | 2500 x 1270                            | 3050 x 1525 | 2500 x 1270       | 3050 x 1525 |
| Maximum sheet thickness        |  | mm                                 | 4.5                                    |             |                   |             |
| Maximum material mass          |  | kg                                 | 50 (F1) / 150 (F4)                     |             |                   |             |
| Work chute size                |  | mm                                 | 300 x 300 (option - not retrofittable) |             |                   |             |
| Machine mass                   |  | kg                                 | 19000                                  | 21000       | 19500             | 21500       |

Specifications, appearance, and equipment are subject to change without notice by reason of improvement.



For Your Safe Use

Be sure to read the operator's manual carefully before use.

When using this product, appropriate personal protection equipment must be used.

The official model name of the machines and units described in this catalogue are non-hyphenated like EMZ3612 MII. Use this registered model names when you contact the authorities for applying for installation, exporting, or financing.

The hyphenated spellings like EMZ-3612MII are used in some portions of the catalogue for sake of readability. This also applies to other machines.

Hazard prevention measures are removed in the photos used in this catalogue.

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