







SCRATCH FREE PROCESSING POSSIBILITIES

ELECTRIC PUNCHING WITH AUTO TOOL CHANGE

THE FUSION OF AMADA'S ORIGINAL TECHNOLOGIES ENABLES HIGH SPEED, HIGH QUALITY AND HIGH PRODUCTIVITY PROCESSING

The EM-ZRe series come equipped with AMADA's unparalleled AC servo direct twin drive system and ZR turret, a major innovation for turret punch presses. Parts can be produced not only with high speed but also with no scratching of the underside. When combined with AMADA's ID Tooling system and the elimination of processing limits, the EM-ZRe series is perfect for high-mix low volume continuous production.



TYPICAL PROCESSING SAMPLES







EM ZR = series

AMADA ORIGINAL TECHNOLOGIES HIGH QUALITY, LOW RUNNING COSTS



ALL ELECTRIC PUNCHING

The EM-ZRe uses twin AC servo motors to generate 30 tons of punching force, allowing a wide range of punched and formed parts to be processed. This system uses up to 70% less electricity compared to hydraulic systems.



SCRATCH-FREE PROCESSING POSSIBILITES

The lower turret of the EM-ZRe is completely covered by the brush table. Up/down forming, high extruded forms and scratch free processing are all possible as only the required die is lifted through the brush bed.



REDUCED MANUAL TOOL CHANGING

The EM-ZRTe includes the TSU (Tool Storage Unit) to minimise manual tool loading operations. Up to 300 punches and 600 dies can be stored in the system and all tools can be automatically loaded / unloaded via a buffer turret and robot system, including 'E' station and forming tools. The EM-ZRBe consists of a buffer turret and robot, allowing more than 30 tools to be prepared for automatic loading / unloading.



LONGER TOOL LIFE

AMADA's original bridge frame design ensures that any deflection due to punching forces does not affect the alignment between punch and die as the tool is always in a central position, potentially extending tool life.

STANDARD EQUIPMENT AND FUNCTIONS

| | V-monitor Check the real-time machine status remotely on your smart device. Additionally, whenever an alarm occurs, V-Monitor will also record HD video to enable diagnosis of the issue. |
|----------|---|
| UT | ID Tooling Punches and dies are immediately identified and tracked for number of hits, sharpening amount, and remaining life, helping to minimize set up mistakes. The tool angle and appropriate die selection are also confirmed upon installation. |
| | AMNC 4ie The AMNC 4ie numerical control used on the EM-ZRe is a 21.5" HD touch screen system that provides simple, intuitive operation for higher productivity. Facial recognition, service tutorial videos and connection to AMADA's IoT service systems helps increase machine uptime. |
| | Tapping stations 4 tapping stations are integrated into the turret of the EM-ZRe. These allow M2.5 to M8 taps to be utilized in the program. When they are not required for tapping operations, they can be loaded with standard 'B' station tools. |
| | AMADA rapid forming tool (ARFT) compatibility The EM-ZRe is supplied with the ability to support the AMADA Rapid Forming Tools (ARFT) for continuous, quick forming of more complex profiles such as offsets, beading and chamfering. |
| | Auto Index Stations The Auto-Index System enables punching at any angle with a single tool, thus eliminating the need for special key angle tooling. When combined with special shaped tooling, the Auto-Index System becomes even more productive and flexible. |
| EM3612ZR | Punching without repositioning The EM-3612ZRe can process a 3000 x 1500mm sheet without a reposition. This helps to achieve fast and stable production, as well as simplifying the programming task. |

STANDARD EQUIPMENT AND FUNCTIONS



The barcode reader enables quick loading of programs directly from the network.

AUTOMATION SYSTEMS



MP SheetCat Compact, single pallet L/UL



ASIII MP Multi pallet L/UL



PR III Part removal systems



LA NTK + SR NTK Single pallet L/UL with enhanced part removal



AS NTK + ULS NTK Multi pallet L/UL with enhanced part removal



CS II Stockyard systems

PRODUCTION PLANNING AND PROACTIVE SERVICE

With the brand-new software solution LIVLOTS (LIve Variable LOT production System), AMADA demonstrates how digital transformation can make production processes more efficient and reliable.

Particularly noteworthy is the deep integration into innovative machine technologies, the VPSS 4ie CAD CAM software solution for virtual prototype manufacturing, complemented by predictive support from technical services, which reduces downtime and increases machine availability.



DIMENSIONS

EM-3510ZRBe

(L) 6157 x (W) 5120 x (H) 2367

EM-3612ZRBe (L) 6582 x (W) 6220 x (H) 2367



EM-3510ZRTe (L) 7005 x (W) 5120 x (H) 2666 EM-3612ZRTe (L) 7415 x (W) 6220 x (H) 2666

W

Unit : mm

MACHINE SPECIFICATIONS

| EM-ZR eSeries | | | EM-3510 ZRBe | EM-3612ZRBe | EM-3510ZRTe | EM-3612 ZRTe |
|--------------------------------|---|-------|--------------------------------|-------------|-------------|--------------|
| Numerical control | | | AMNC 4ie | | | |
| Punching force | | kN | 300 | | | |
| Drive system | | | AC servo, direct twin drive | | | |
| Turret | Number of stations | | 32 ZR (4 Auto Index stations) | | | |
| Controlled axes | | | 11 | | 17 | |
| Axis travel distance | ХхҮ | mm | 2500 x 1275 | 3050 x 1525 | 2500 x 1275 | 3050 x 1525 |
| Maximum simultaneous feed rate | X/Y | m/min | 144 | 128 | 144 | 128 |
| Maximum punching hit rate | 5 mm stroke / 25.4 mm pitch 5 mm stroke / 2.0 mm pitch | hpm | 500 745 | | | |
| Maximum marking hit rate | 1.4 mm stroke / 0.5 mm pitch | hpm | 1800 (X) - 950 (Y) | | | |
| Punching accuracy | | mm | ± 0.1 | | | |
| Work range without reposition | | mm | 2500 x 1275 | 3050 x 1525 | 2500 x 1275 | 3050 x 1525 |
| Maximum sheet thickness | | mm | 4.5 | | | |
| Maximum material mass | | kg | 50 (F1) / 150 (F4) | | | |
| Machine mass | | kg | 20000 | 21500 | 23500 | 25000 |

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 EM3612ZRTE. Use this registered model names when you contact the authorities for applying for installation, exporting, or financing.

The hyphenated spellings like EM-3612 ZRTe 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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