

Model Table & Technical Details

	MA	MB	MC	ME	MF
DIES	5	5 / 6	6	6	5
MAX WIRE Ø (600N/MM²)	8 mm	11 mm	20 mm	33 mm	42 mm
CUTT OFF LENGTH	90 mm	100 mm	150 mm	230 mm	220 mm
MAX K.O. DIE SIDE	90 mm	90 mm	140 mm	210 mm	210 mm
MAX K.O. PUNCH SIDE	22 mm	30 mm	42 mm	80 mm	80 mm
MAX HEAD DIAMETER	20 mm	24 mm	32 mm	50 mm	70 mm
HEADING TONNAGE	70 ton	100 ton	200 ton	650 ton	700 ton
MAX SPEED*	370 pcs/min	280 pcs/min	160 pcs/min	110 pcs/min	90 pcs/min
POWER INVERTER	37 kw	45 kw	110 kw	200 kw	250 kw
POWER MOTOR	29 kw	38 kw	70 kw	150 kw	150 kw
WEIGHT	11 ton	13 ton	40 ton	125 ton	130 ton
DIMENSION WITH AC CABIN	2.2x3.6x2h m	2.2x3.6x2h m	3x5.7x2.8h m	4.2x8x3.5h m	4.2x8x3.5h m
DIE HOLDER	Ø50 x 165	Ø60 x 165	Ø94 x 238	Ø150 x 300	Ø180 x 300
MAX DIAMETER PUNCHES	Ø40 x 100	Ø45 x 105	Ø70 x 140	Ø120 x 220	Ø140 x 220
KNIFE	Ø26 mm	Ø32 mm	Ø56 mm	Ø92 mm	Ø110 mm
BUSHING KNIFE	Ø25 mm	Ø30 mm	Ø55 mm	Ø90 mm	Ø105 mm

Consider the types of materials you are working with and the precision required for your products.
Our sales team can help recommend the best accessories based on your specific manufacturing needs.

Accessories & Optional

Standard Equipment

- DOUBLE ENCODER VECTOR MOTOR WITH TORQUE CONTROL
- HIGH SPEED BUSHING KNIFE
- WIRE FEED: CHOICE BETWEEN LINEAR SYSTEM WITH GRIPPERS OR WIRE FEED ROLLS
- SAFETY BRAKECLUTCH ON FLYWHEEL
- POSITIVE K.O. ON EACH STATION, INDEPENDENTLY ADJUSTABLE
- DISPLAY OF K.O.PINS POSITION INSIDE DIES
- PNEUMATIC LOCK OF BACKING SCREWS
- EXTRA TRANSFER FINGER
- MOTORIZED LIFTING AND LOWERING OF TRASFER UNIT
- DOUBLE ANTIBACKFLASH SYSTEM ON WIRE FEED ROLLS
- TRIMMING STATION ON LAST DIE, WITH CAM ALWAYS INSTALLED
- 2 HAND JOG SYSTEM
- TRASFER UNIT SET UP JIG
- DOUBLE SET OF WIRE STRAIGHTENING ROLLS
- DOUBLE LUBE SYSTEM WITH FILTRATION
- SEPARATE TANKS FOR TOOL LUBE AND MACHINE LUBE
- END OF COIL SWITCH
- TOOL AREA LAMP
- SAFETY SWITCHES ON ALL DOORS
- SHORT FEED DETECTOR WITH ELETRONIC CONTROL OF 1^ FINGER
- HOUSING FOR LOAD MONITOR SENSORS
- HOUSING FOR AIR CLEANER
- SOUND ENCLOSURE

Optional add-ons

- GOOD PARTS CONVEYOR
- SCRAP CONVEYOR
- QUICK CHANGE KIT OUT OF MACHINE
- HEATING SYSTEM



Get in Touch

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Unleashing Speed,
Mastering Precision.

Driving Innovation and Excellence in Cold & Hot Forming!





Sliding Movement Without Bronze Liners | Manzoni Absolute Zero Clearance®

Differently from traditional headers, Manzoni Machinery machines do not use bronze liners. Indeed ram and transfer are mounted on special bearings specifically developed for this application. This assure the total absence of any play and, therefore, an high heading precision even at high speed. Manzoni Absolute Zero Clearance® permits to produce with great precision parts with very tight tolerances. Furthermore, thanks to the absence of plays, punches are always aligned and no adjustments are needed, drastically reducing the time of change over.

Manzoni Modular Steel Frame®

Manzoni Machinery machines, differently from traditional headers, are built only with special steel using the Manzoni Modular Steel Frame® concept. The machine's frame is made of steel with a special assembling technique that assures sturdiness, rigidity, and high resistance to overloads. Compared to machines with a cast iron frame, it is possible to reach higher heading tonnage while containing the machine's dimensions. This allows significant space saving on the shop floor. Headers built with the Manzoni Modular Steel Frame® are three times tougher than traditional machines.

Easy Move Control Panel® with user-friendly Touch Screen

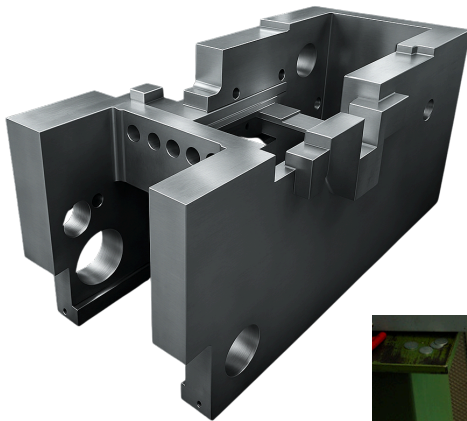
A user-friendly color touchscreen control panel, easily movable as needed, allows the operator to manage all machine functions without having to move around. Based on advanced computer technology, the interface is intuitive and easy to understand. Thanks to its large memory capacity, it can store the complete machine setup under an article number, making future production of the same part significantly quicker and easier.

Innovatime Timing Diagram

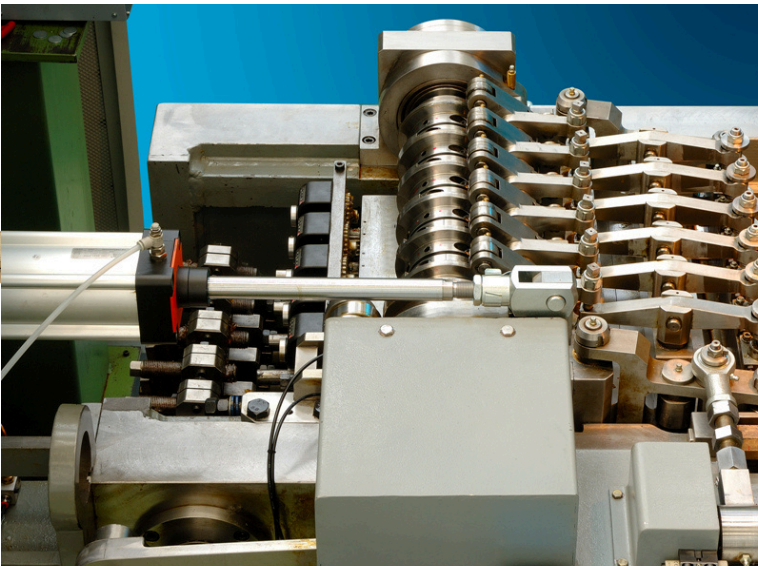
The machine is based on an innovative timing diagram that, by analyzing time and moving masses, permits it to reach high working speeds smoothly, without loss of balance and with total absence of vibrations. This great steadiness is the key factor that allows Manzoni Machinery machines to reach high speeds without mechanical stress and with very low noise emissions.

Easy and quick tool change thanks to Read, Set & Go® Tool Change System

To simplify tool changes for the operator and, above all, to reduce downtime, Manzoni Machinery machines are designed with the user-friendly Read, Set & Go® system. This system enables any operator on the shop floor, even those without prior experience, to quickly and easily set up the header. The position of all mechanical components is clearly indicated by markers, readers, and displays, allowing the machine to be configured exactly as it was the last time the same part reference was produced. This results in a significant reduction in changeover time. In addition, the ergonomic design, low frame, and excellent accessibility of all adjustment points make the operator's job both easier and more comfortable.

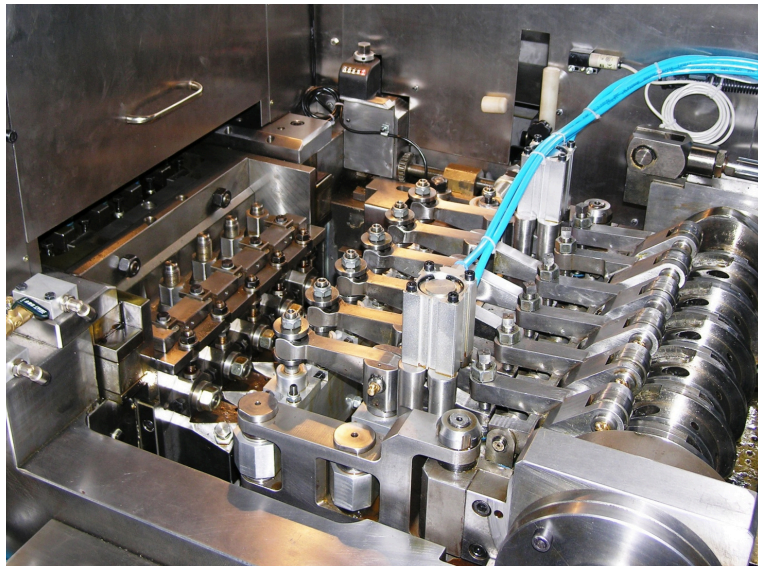


Manzoni Machinery machines are the result of a new approach that has revolutionized header construction techniques. Thanks to extensive research and development, innovative technologies have been applied for the first time on this type of machine, enabling the use of new, more resistant materials. In addition, the machine has been designed with a new timing diagram that, together with a structure optimized for moving masses, allows for high working speeds to be reached smoothly, without imbalance and with complete absence of vibrations. The result is a machine with an innovative design, entirely built in steel, compact in size, capable of producing complex-shaped parts at high speed with outstanding precision, stability, and sturdiness.



Ram with wedge

The ram movement is achieved through a new system that directs all heading forces onto the wedge, instead of applying load to the connecting rod and crankshaft. This eliminates backlash and wear, ensuring high and consistent heading precision even after many years of operation.



Punches always aligned

Thanks to the total absence of plays, punches are always aligned. Avoiding the needs of alignmentat each tools change, change over time are drastically reduced.

High-Speed Bushing Cut-Off

A special system of cams and levers produces a very high cutting speed and ensures cut-off precision and accuracy. The knife is guided throughout its entire length to avoid even minor deflections that may reduce blank precision, and it does not require any adjustment during job change. For this reason, Manzoni Machinery machines are particularly suitable for the manufacturing of high-precision parts where cut-off accuracy is necessary.



Manzoni Short Parts Holder

In case of very short parts, the short blank can be steadily held between die and punch K.O. pins while is ejected from the die, giving more time to fingers to grab it.



Manzoni Slow Motion Ram® for Tool Setup

The advanced technology inverter, combined with the vector motor, allows the operator to approach the punch and dies at extremely low speed to check and prevent any potential tool damage. A simple touch of an icon on the touchscreen activates the Manzoni Slow Motion Ram® mode.

Double Encoder Vector Motor

The main motor of the machine is another innovation in this field. For the first time, a vector motor with dual encoder and torque control has been installed on a header. Manufactured in Italy by a leading company in this sector, the motor is controlled by an advanced vector drive and is in constant communication with two encoders installed on the crankshaft and the motor. This powerful system guarantees precise torque control, allowing the header to operate at high performance even at low speeds. The new vector control supplies power to the motor only when needed, enabling low energy consumption and significant energy savings—up to 50% compared to traditional machines.



SAVING POWER 

Manzoni Teleservice Assistance®

For quick support, Manzoni's Teleservice connects technicians remotely, providing real-time diagnostics, data log checks, and PLC updates without delays.



Transfer fingers with Manzoni Extra Deep Forming® System

The transfer fingers are designed with a special movement that allows the production of particularly complex parts. The Manzoni Extra Deep Forming® system, thanks to the quick and wide movement of the fingers, enables the punch to penetrate deeply into the dies. This allows the production of parts that would normally require a larger standard header, resulting in oversized heads and higher costs. The system also makes it possible to produce extra deep holes without the need for more expensive machinery.

