

RT, VT, ET Series CNC Turret Punching Machine



RT SPECIFICATION



VT SPECIFICATION



ET SPECIFICATION

The RT series CNC turret punching machine with international advanced technology is produced in cooperation with Switzerland RASKIN.

* It is equipped with hydraulic system manufactured in Germany, numerical proportionate servo valve. Full loop control, good dynamic and static response characteristics. High resolution, low hysteresis. No middle dead zone. Resistance to temperature variation and interference. Punching speed up 1000 times per minute. Punching speed up to 390 times per minute at 25mm pace.

* The turret adopts the specialized fixture for pair processing, ensuring the coaxiality of the upper and lower dies, which can extend their service life greatly. The inlay structure simplifies the structure of the turret, which also helps to extend its service life.

* The pneumatic, hydraulic and electric components are all famous brand products like Festo, Schneider, SMC, SMB and Turck, thus ensuring the reliability of the whole unit.

* The pressure adjustable hydraulic clamp is used to hold materials of different nature and thickness at different press, thus ensuring that the plates can be held tightly while leaving no dent on the soft and thin plates.

* The vacuum waste collector is installed to ensure that waste can drop through the waste hole during high speed cutting, eliminating waste rebounding, which can extend the service life of the die.

* The worktable with hard brush and ball is wide enough to reduce the noise and vibration when the machine is running, and protect the plates from getting scratched.

* The large lead ball screw and linear guide from Japan THK, NSK, NTN, German Bosch Rexroth and INA are used to ensure processing accuracy.

* The O-type body welded with steel plate has gone through second aging treatment to eliminate stress to a large extent.

* The imported die ensures long service life.

* The CNC system has clamp self protection function, which can ensure that the protected area is not punched to avoid damaging the die and clamp.

* The auto-index adopts high precision wormwheel and worm mechanism. The maximum die diameter can reach 88.9mm and the auto-indexes can be expanded to four.

* The concentrated lubricating mechanism can lubricate directly the various points to reduce work load and pair friction, thus improving its service life.

* The integrated beam and carriage structure enhances the rigidity and accurate positioning, which ensures stable feeding at high speed and prevent Axis X and Y of the worktable having dynamic offset.

* The Japan FANUC CNC punching machine specialized system is configured to realize field and background programming. RS232 standard port is for connecting and communicating with computer conveniently. It also features pulse encoder semi loop feedback, numerical AC servo driver and motor, strong self diagnostic and protection function to realize remote diagnosis.

VT series are modified to meet Chinese market on the basis of RT series. Plain and economic, it can be regarded as the elite of RT series. With German numerical hydraulic system, its punching speed can reach 600 times per minute and 350 times per minute at 25mm pace.

* Similar to RT series, it features O-type closed body, inlay turret, integrated beam, high precision wormwheel and worm auto-index, brush and ball mixed worktable. In addition, the control system, large lead ballscrew, linear guide, pneumatic, hydraulic and electric components are made by world famous manufacturers, thus ensuring the reliability of the whole unit. What is more, it is equipped with float pneumatic clamp with large holding force and stable feeding characteristics. The integrated swallowtail type carriage is high in rigidity. The clamp is easy to move.

The traditional ET series CNC punching machine, the representative of the basic CNC turret punching machine in China, adopts the mechanic main drive with simple structure, stable and reliable performance and easy maintenance. The maximum punching speed can reach 300 times per minute.

* Similar to RT and VT series, it features O-type closed body, inlay turret, integrated beam, and brush and ball mixed worktable. In addition, the control system, large lead ballscrew, linear guide (HIWIN), pneumatic and electric components are made by world famous manufacturers, thus ensuring the reliability of the whole unit. It is equipped with float pneumatic clamp with large holding force and stable feeding characteristics. The main drive adopts imported clutch with the service life of the friction disk much longer than that of the domestic ones, ensuring more stability. It is also equipped with Spain FAGOR 8055 CNC system with high calibration.

The frame is a closed O style to ensure rigidity and prevent the yawing possible with C frame designs. This assures better punch & dies alignment, less tool wear, and better uptime.

The high precision ram stroke is controlled by a hydraulic system that is the heart of the punching system for the machine. The ram speed and stroke are variable with the capability of 600 HPM. There is full punch force throughout the full stroke, and it is adjustable to make louvers, emboss, and extrusions.

The machine comes equipped with precision ground ball screws for positioning accuracy and linear guides for table & carriage travel and support. Both are products of Japan and Germany to ensure the highest quality and years of reliable operation.

The machine is controlled by a FANUC CNC system which includes the CPU and digital AC servo motors. G code programming, self diagnostic function, clamp auto protection zones, and manual pulse generator.

The fully high precision turret is fully bushed for longevity and available in 24 and 32 tool styles. The upper and lower turrets are machined together for precision station alignment.

Auto indexing is handled by combined synchronization of belt and worm gear for highest accuracy. Sectionalized worm and gear construction allow for extremely good repeatability. Maximum tool diameter is 88.9 mm (3.5").

Pneumatic clamping is standard and hydraulic clamping optional. The floating pneumatic clamp is built to have room for up and down sheet motion. There is a small "dead zone" between clamp and punch, increasing the utilization of sheets.

Combination of brushes and roller balls fully supports the sheet, but lowers the noise, vibration, and scratching of the material.

Flexible configuration of the machine can be achieved with thick or thin tooling styles selected by the requirements of the customer.