

DERATECH

瑞铁机床

DAS

CNC Servo Turret Punching Machine

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PROFESSIONAL/CONSISTENT/DEDICATED/EXCELLENT



Deratech Machine Tool (Suzhou) Corp., Ltd, a giant in the field of sheet metal forming and processing in China. Located in Taicang, Jiangsu Province, adjacent to Shanghai, the company mainly produces CNC press brakes, bending centers, laser cutting machines, flexible production units and other sheet metal forming processing equipment and equipment sets, and its products are well sold in domestic and abroad. With the continuous development of the company's business, all aspects of the company's strength are stepping up to a new level.

The company has always taken it as its mission to develop more cost-effective, durable and better sheet metal forming and processing equipment, to drive product iteration with technological advancement and drive enterprise development. In recent years, the products of Deratech have become more and more recognized by the industry and favoured by customers. With the successive launch of electric servo CNC press brakes and bending centers, the company will always focus on the perfection of its products to create more value for customers.

To date, Deratech has been granted over 100 patents (including 8 invention patents). It has been awarded as "Jiangsu Province Specialized and Sophisticated SMEs", "Jiangsu Province High and New Technology Enterprise", "Jiangsu Province Provincial Enterprise Technology Centre", "Jiangsu Province High-end sheet metal CNC machine tools strategic emerging industry standardization pilot", "Jiangsu Province intelligent flexible sheet metal equipment engineering research centre" and other titles, and participated in the CNC press brake national standards, industry standards revision and other work.

Driven by the target of "Made in China 2025", Deratech will continue to move forward and work hard. Growing up with customers and staying with them for a long time is Deratech's faithful commitment to customers.



# DAS CNC Servo Turret Punching Machine

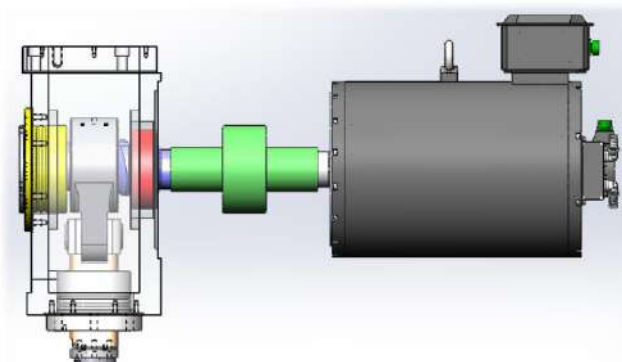


Industry leading servo drive technology, simple appearance, high energy and high efficiency.

## PRODUCT FEATURES

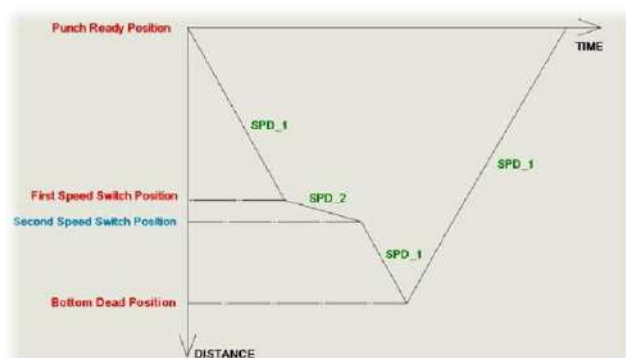
### Servo Main Drive

Adopting servo motor and crankshaft connecting rod direct drive structure, the structure is mature and reliable, and the special installation process effectively eliminates mechanical clearance, which makes it have the characteristics of high transmission accuracy, low noise and long life. The use of servo closed-loop motor can effectively improve the molding effect. The unique internal energy-saving design effectively recovers the braking energy generated during actual use and uses it again for stamping action, which minimizes the comprehensive energy consumption of the machine and effectively reduces the cost of using the machine.



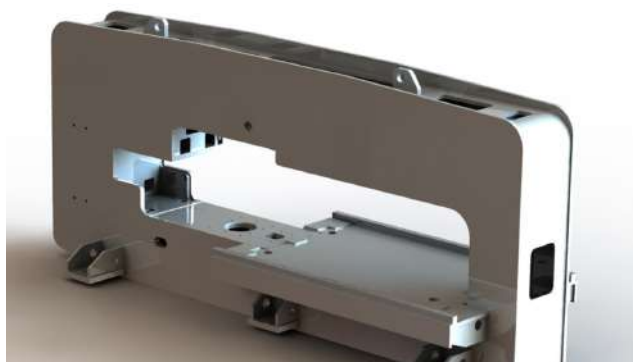
### High Speed and Mute

Under the premise of ensuring efficiency, the servo control can be used to control the speed at any position, and combined with the speed requirements of different positions in the actual punching process, you can choose to adjust the punch speed in real time to reduce the noise during the sheet punching process, which provides operators a comfortable working environment.



### O-shaped Frame Structure

The main frame adopts an O-shaped body structure, which has good rigidity and small deformation. The overall annealing treatment after welding eliminates internal stress. The loading processing is completed at one time to ensure the stability and reliability of the machine tool for long-term work.



### Water Cooler and Air Conditioner

The servo spindle is equipped with a water cooler, and the electric control box is equipped with an air conditioner to ensure that the servo spindle can run stably and at a high speed for a long time.



### Turret

The thick turret structure made of spheroidal graphite cast iron has better guidance, higher precision, stronger loading capacity, and effectively suppresses vibration.



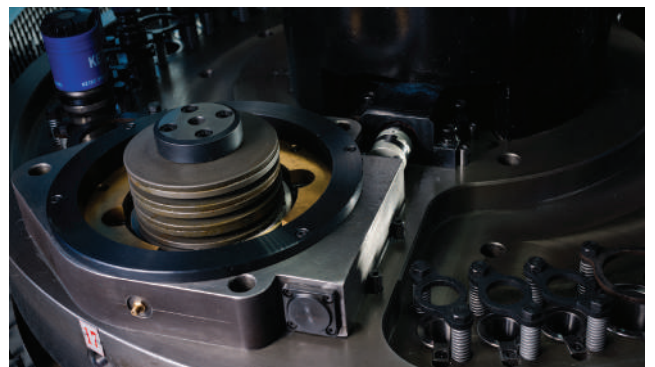
### Hardened Tooling Sleeve

The main body of the tooling sleeve is processed by fine grinding after hardening. It has better wear resistance and is easy to replace, which effectively improves the service life of the tooling and the turret.



### Auto-Index (Station)

Adopt normal mesh transmission structure, higher repeat positioning accuracy, more stable structure, standard with two B-station rotary tooling, suitable for punching and cutting of any graphics, higher efficiency.



### Turret Drive

With precision imported reducer, compact structure, small backlash, high transmission accuracy, smooth and reliable, no maintenance.



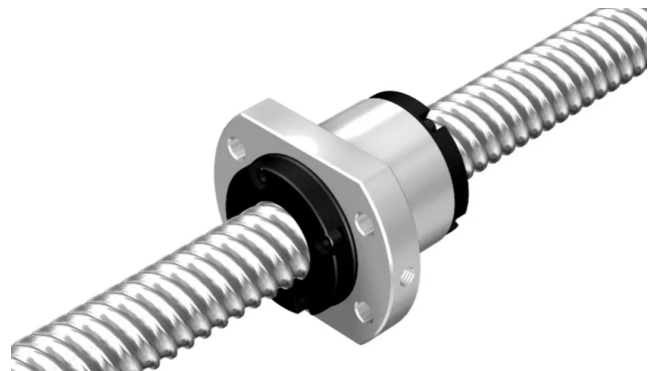
### Tooling

Standard thick turret long tooling, good guiding performance, long life and higher precision.



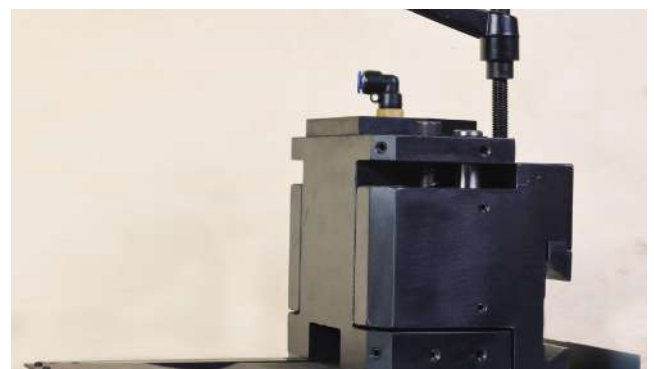
### Feeding Mechanism

The feeding mechanism adopts Japanese THK grinding grade ball screw and large diameter linear guide, servo direct drive design, higher positioning accuracy, faster running speed and lower noise.



### Gripper

Floating type pneumatic clamps can clamp workpieces stably and reliably, better adapt to different plates, and effectively improve the quality of punching.



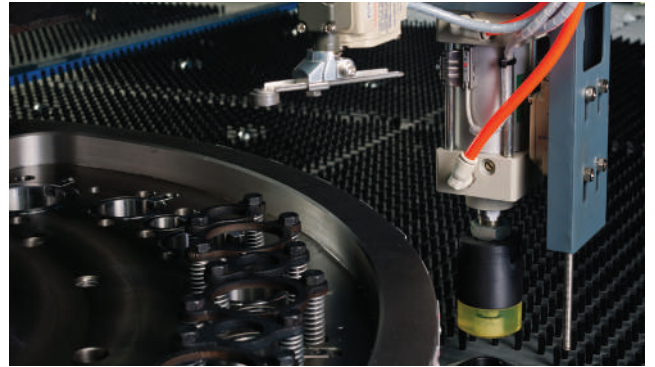
### Brush Insert Roller Ball Table

The high-density brush table inlaid with a few rolled balls makes low feeding noise and protects the surface of the board.



### Repositioning and Sheet Metal Deformation Detection

Effectively achieves blind-free, extra-long plate processing and material saving. It can suppress collision caused by plate deformation in time, while protecting machines and parts.



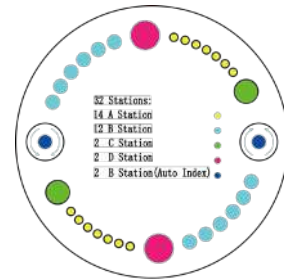
### Automatic Lubrication System

The CNC system can time the feeding mechanism and quantitatively provides oil to ensure that the screw rod and guide rail are fully lubricated. The built-in liquid level detection switch ensures that the lubrication system does not work without oil, and the CNC system makes a prompt.

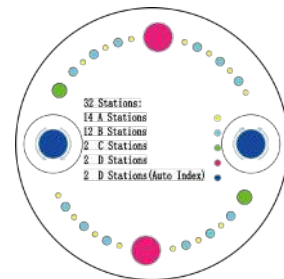


# LAYOUT OF TURRET WORKING POSITION

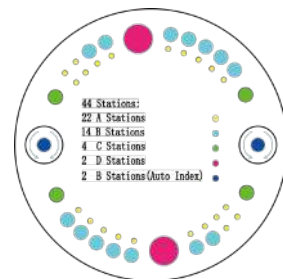
The standard is a 32-position turret, with an optional 32-position (slightly different from the standard, see the station layout) or 44-position turret.



32 workstation layout (standard)



32 workstation layout



44 workstation layout



# CNC SYSTEM AND AUTOMATIC PROGRAMMING SOFTWARE

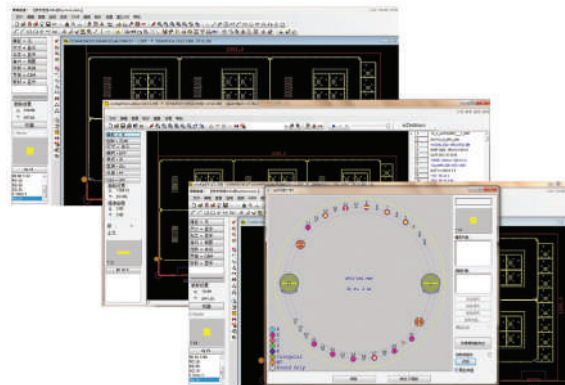
## Japan FANUC Oi-PF CNC System

- 10.4-inch colorful display control integrated control unit
- Interactive interface
- Multi-language switching
- USB port
- Ethernet communication
- RCS232 communication
- Multiple methods of program transmission



## Israel CNCKAD Programming Software

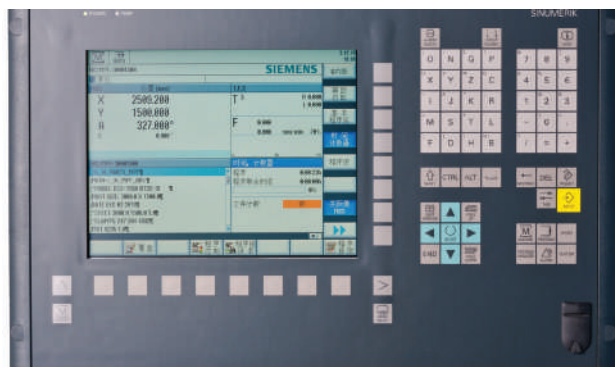
- Support multi-language
- Simple to learn, simple to operate
- Mold library management
- Automatic mold matching processing, saving time and high efficiency
- Automatic & manual path optimization
- Graphical simulation function
- Processing report generation function, conducive to production control



## OPTIONAL CONFIGURATION

### Germany SIEMENS 840Dsl CNC System

USB port, Ethernet interface, RCS232 complete set of Germany Siemens CNC system and servo motor, to achieve precise control and stable operation of the machine.



### Multi Tooling Function

The multi Toolings are installed in the rotating station, and each set of multi tooling has 3 or 8 sub toolings. The multi toolings can increase the number of turret toolings, reduce tooling adjustment time, reduce tooling use costs, and increase machine flexibility. Each sub tooling can be used as a rotating tooling. The use of a rotatable multi tooling is equivalent to adding a rotating station to the machine, expanding the function of the machine, and reducing the cost of using the tooling.



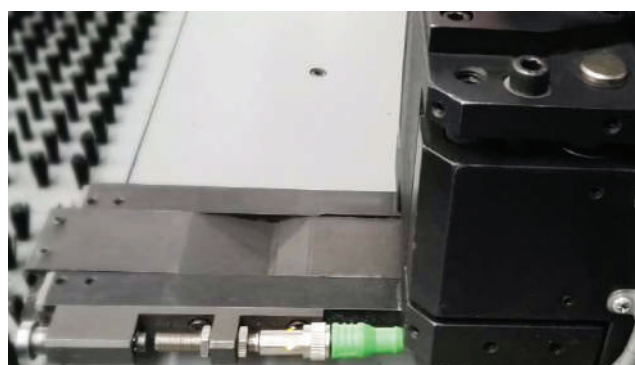
### Vacuum Waste Suction Installation

The vacuum waste suction pump will suck the waste in the lower tooling in time to prevent waste buildup and avoid damaging the parts and molds.



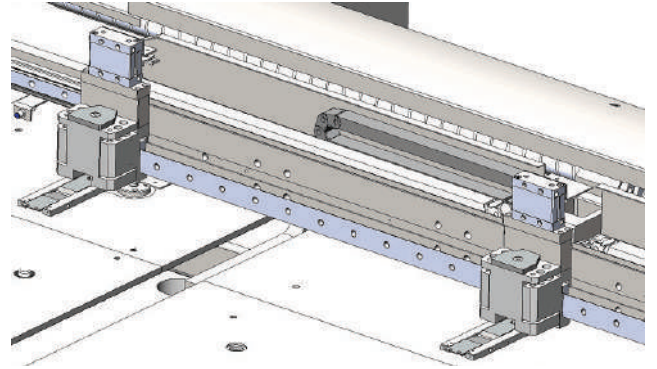
### Anti-Dropping Clamp Device

Install the clamp anti-dropping detection switch to detect whether the sheet material is off the clamp in real time, and protect the safety of materials and personnel in time.



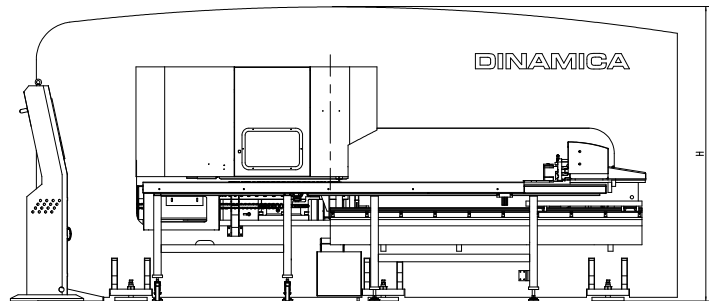
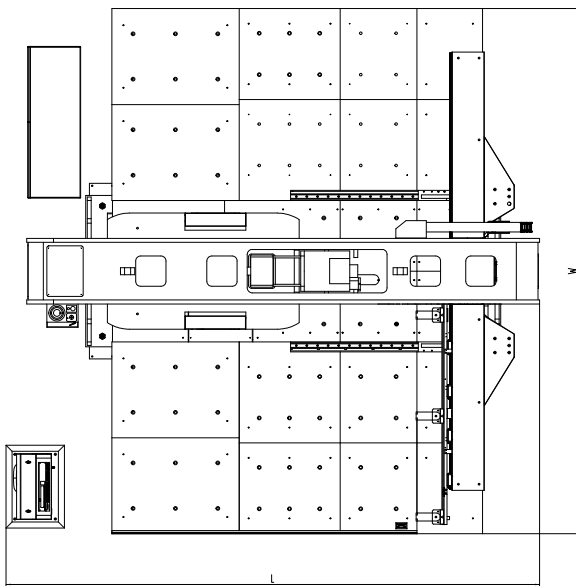
### Automatic Clamp Device

After the program is started, the clamp will automatically adjust the position according to the position in the program without manual intervention, which improves production efficiency.



## PARAMETERS - DAS

Name	DAS3-1250	DAS3-1550	DAS3-2050
Press capacity (kN)	300	300	300
The Largest thickness (mm)	6.35	6.35	6.35
one-time punching maximum hole (mm)	Φ88.9	Φ88.9	Φ88.9
The largest processing sheet size (mm/m)	1250×5000	1500×5000	2000×5000
X,Y axis stroke (mm/m)	1250×2500	1500×2500	2000×2500
Position number	32	32	32
Maximum moving speed (m/min)	100	100	100
Turret speed (rpm)	30	30	30
The punching frequency (hpm)	1500	1500	1500
Number of control shaft	5	5	5
Punching precision (mm)	±0.10	±0.10	±0.10
Integrated power (kw)	6.5	6.5	6.5
Repeat precision (mm)	±0.03	±0.03	±0.03
Dimensions (mm)	4800×5120×2330	5300×5120×2330	6300×5120×2330
Weight (kg)	14000	15500	19000



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