DNC

Machine Type

DNC：Single-Gantry type
DNA：Single-Gantry type with 2 Spindles
DNF：Double-Gantry type with 2 Spindles for each
DWA：Large-gantry with 2 Spindles
DFC：Unmanned, Full-Automatic

1015

Maximum Size of Workpiece

1015
X-Axis Length：1.0 meter
Y-Axis Length：1.5 meter

T

Spindle Type

X：2-drill Multiple Spindle
A：with ATC, Drilling, Tapping, long hole Milling
T：Drilling, Tapping, long hole Milling
H：Hydraulic feeding
plus：Center out coolant Spindle
HD：Large power Spindle, 8-50mm Ø
HL：Specially for large holes, 24-50mm Ø

T-type Spindle

- Z-axis is servo-controlled and stroke reaches 400mm. That can greatly improve the deficiency in stroke of old models. It not only can improve the length limit, but also can process various H-beams. (optional)
- Using servo motor can accurately control the cutting-position and the timing of heavy-cutting, light-cutting, and blank-cutting to achieve the best cutting efficiency.
- With BT-40 Quick-change Shank the same as machine tools. Just press the button to load or unload the bit within one second. The price is only one-third of the traditional Straight Shank, but the accuracy of deflected of the tool increases 10 times.
- With the patent tool length and workpiece thickness measuring device, it can achieve full-automatic feeding-stoke management.
  No need to adjust the limited switch and it can avoid wasting working-time due to poor adjustment.

H-type Spindle

- The independent hydraulic cylinder design makes maintenance more convenient. With the encoder, it makes the feeding-controlled near to the servo feeding function and achieve full-automatic feeding management almost same as the servo-controlled.
- Using the thickness-measuring encoder can accurately control the cutting-position and the timing of heavy-cutting, light-cutting, and blank-cutting to achieve the best cutting efficiency.
- With BT-40 Quick-change Shank the same as machine tools. Just press the button to load and remove the bit in one second. The price is only one-third of the traditional Straight Shank, but the deflected of the tool increases 10 times.

- With the patent tool length and workpiece thickness measuring device, it can achieve full-automatic feeding management.
  No need to adjust the limit switch that it can avoid wasting working-hours due to poor adjustment.

Drill Grinder

- Simply and fast grind drill bit
- Two models, Tk-33 and TK-60
- Can grind center point
- Patent special design. Easy to learn.

X-type Spindle

- Using the patent two-drill multi-spindle, and the distance between two holes is controlled by servo motor. When encountering a single hole, it will be single-bit-processing by retracting one of the bits. It can achieve full-automatic drilling operations.

AGP-265HH

- Two cantilever spindles with independent position can process the different workpieces respective in the same time, or they can process a large size, stack of workpieces cooperated.

DNC-1625H plus

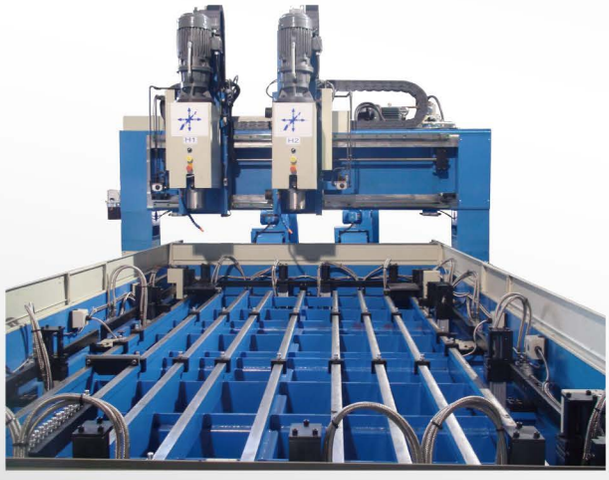
- With large power spindle + center out coolant + high-rigid-machine body
- It can use with carbide drill, oil hole drill, or twist drill bit or TTDG.
  With twist drill or TTDG, it can process 50mm diameter holes. With oil hole drill, it can fast process stainless-steel plates.

DNC-1015A

- 1.0m*1.5m is the most popular size of worktable
- Drilling, Tapping, long-hole milling function
- High-rigid-machine design.
  The fastest drilling speed is the No. 1 in Taiwan.
- High-efficiency motor of specially designed for steel structure drilling can achieve the ideal drill condition. High torque for big holes and high speed for smaller holes. For 14Ø to 50Ø mm.
- The electric chip-conveyor exports from the side to facilitate front and rear sides loading and unloading.
- ATC(Automatic Tool Change)

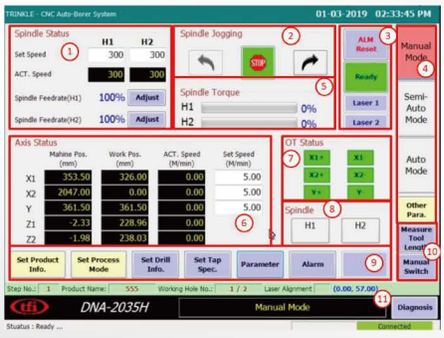
DNA-1635H

- The distance between two spindles is servo-positioning, which can process two stacks of the same workpieces in the same time, or process a large size, stack of workpieces cooperated.
  It doesn’ t need to disassemble any clamp and home point block when drill large size of plate.



Powerful Software

Easy to learn.
Suitable for no matter small-volume large-variety or mass production.

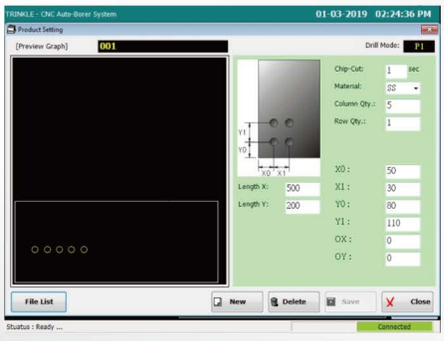


Easy to Restart

Fast restart on unfinished hole when the machine stops for some reason during auto-operation.
Press the button Previous/Next Hole to select hole-position at random to continue processing.

Graphic-Mode-Dialogue Input Method

100% graphic of steel structure hole-group
Only 0.5 Hours to learn how to input by dialogue.
Calculate accuracy to the third decimal place.



Multi-Hole-Group Processing on Bridge Plate

Fast restart on unfinished hole when the machine stops for some reason during auto-operation.
Press the button Previous/Next Hole to select hole-position at random to continue processing.

Auto Tool Change with ATC Magazine

For A series models
Replace tool when it is dull, damaged, or when drilling two or more sizes of diameter, processing big size of junction plates, needing to tap or long-hole mill.

High-Rigid-Structure Design

Particularly strengthen the intensity of main-parts and accessories design and use high-quality structure plate can ensure the holistic stability and service life.
Especially in high-speed drilling or drilling bigger holes, it can ensure the tool life and processing efficiency.

Lightweight & High-Efficiency Crane

Can match with German ABUS HB light-rail crane.
Unique Built-in Teflon wheels which friction resistance only 0.001 makes loading/unloading easily.

Fast Marking

To fast confirm the hole positions.

Hole-Positions Checking

Check before loading workpieces & adjust supports position to avoid drilling accidentally.

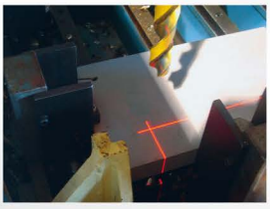
Hole-Positions Confirmation

Confirm by laser crosshair of the tool center.

Dual Hydraulic Pump

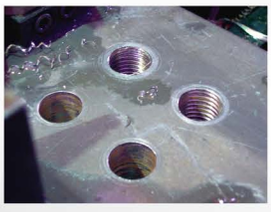
Steady the clamp thrust when another one is opened.

Checking with Laser-Center



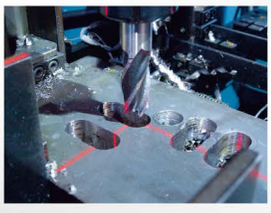
Patent design makes the cross hair of laser point at center of drill. To confirm the positions of holes/graphic-holes and teaching-input accurately, convenience, and time-saving.

Tapping



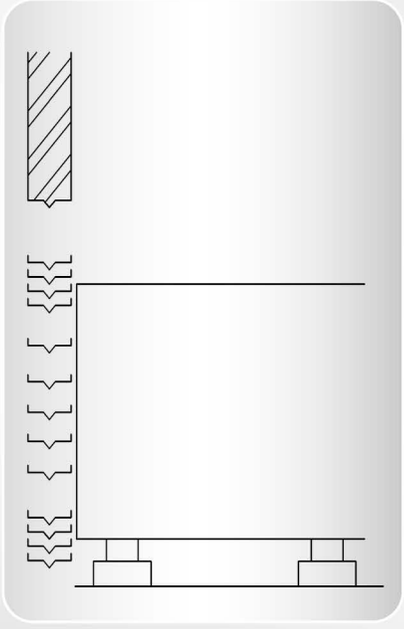
NC auto-tapping, M6~M32

Long Hole Milling



14~32 mm
for various length of holes

Servo-feeding



Servo-controlled ensures the tool stability during high-speed work. It' ll decelerate automatically to improve the tool life and efficiency when the tool is on the surface of the steel plate.
H-type spindles also can do it.

Special Auto-Chip-Cutting

The high-steel machine with special drill grinder (optional) can achieve high efficiency continuous-drilling operations with automatic chip-breaking, which can reach the same drilling speed as the latest Japanese machine.

Automatic Tool Length Measurement

Fast and accurately measure the tool length. Substantially reduce the time for setting the tool and the work-hours wasting by setting error.

Protection Button

Ensure the spindle operating on the other side won' t move to working area when there is loading/unloading.

High Speed Drilling

High-steel machine and high-efficiency coolant system make feeding achieve above 0.35 mm rev. in often, above 2.0 mm rev. when drilling 28Ø.

Multi-Home-point Processing

Process 10 kinds of same/different jobs or 20 home points for smaller workpieces.
Auto-process more 20 stacks of workpieces after working-hours

Auto Power-Off

Programmed auto power-off after the last process cycle.

Auto Lubrication

Greatly increase the life of both linearity sliding blocks and ball screws.

High-Efficiency Motor

TECO high-efficiency motor specially designed for tfi drilling machine realizes the ideal drill condition of high torque in bigger holes and high speed in smaller holes.

Auto Height-Measuring

The devices at four home points measure the thickness of the workpieces automatically.
The drill can operate without setting the limit button.

Advanced Hydraulic-feeding

The independent hydraulic cylinder design makes maintenance more convenient.
With the encoder, it makes the feeding-controlled near to the servo function and achieve full-automatic feeding management the same as the servo-controlled.
Decelerating distance, penetrating distance, knife-raising height, and chip-cutting duration all can be parameter-adjusted to increase the efficiency.

Machine Specification

Models		AGP-265HH	DNA-2035H	DNC-1020H	DNC-1625Hplus	DNC-2040HHE
Capacity	Hole Diameter mm	14 - 40Ø			Twist drill : 8 - 50 TTDG : 14 - 50 Oil drill : 14 - 40 (Max Workpiece Thickness : 80 mm)	14 - 40Ø
	Max Work Size mm	2600 x 600	2000 x 3500	1000 x 2000	1600 x 2500	2000 x 4000
	Home Points	1 or 2 or 4				
	Workpiece Thickness	Total 100mm (hydraulic clamp stroke:105mm)	100mm (optional 120mm) Four home points auto/manual individually input workpiece thickness			
Hydraulic Device		50 kg/cm2 2.2 kw/50L with chiller				
Coolant		Water-bass coolant, Forced recycle				
Chip Conveyor		Electric conveyor				
Spindle Motor		5.5Kw x 2		5.5Kw	11kw	5.5kw
Spindle	Spindle	Independent 2-spindle	2	1	1	2-spindle copy-type
	Shank	BT-40 Fast tool change	BT-40 Push-button shank change	BT-40 Fast tool change		BT-40 Spindle x 2
	Speed Control	Reducer + Inverter control				
	RPM	120 ~ 450 rpm			120 ~ 1000 rpm	150 ~ 450 rpm
	Tool Length	100 ~ 370 mm				
Clamp	Clamp	Hydraulic clamp (Manual auxiliary)				
	Thickness	5-100 mm	5 ~ 100 mm (25-120mm optional)			
	Amount	12	16	12	16	16
	Force	Approximately 6kN (600kgf)				
Dimension	Worktable Height	800 mm				
	L x W x H mm	----	4615 x 2814 x 2760 mm	3015 x 2150 x 2760 mm	3200 x 2150 x 2760 mm	2500 x 5300 x 2800 mm
	Weight	----	9300 kg	3700 kg	6500 kg	7800 kg

◎ The specification is for reference only.
The real specification shall be based on quotation.