Drill⁺

AC servo Z axis lifter

Adopt ball screw feeding on Z-axis with traveling speed of 6,000 mm/min at 350 mm stroke. Precise sequence control for primary, pecking and extremity drilling in high efficiency and is capable to support not only drilling but also tapping for M8 ~ M32 and nibbling for Ø8 ~ Ø32 mm.

Drill spindle - Servo motor drive
Taiwan patent number M420381
China patent number 201120309716.1

DS Spindle

From DS-050 to DS-080, drilling capacity from Ø6 ~ Ø80 mm (Max. Ø100 mm). Standard BT shank designed for tools quick change by one touch and automatic tool change.

DS servo spindle

Optional Accessories:

Electric chip conveyor
Remove chips
Coolant can be recycled

Chip bucket
Remove chips

ATC - Automatic tool change
5 tools capacity
Support automatic working process

Drilling table (for gantry type)
Modular design convenient for shipping
Save installation time

Cooling system for control box
For high temperature working environment

DG-032 Drill grinder

DG-032	
Drill size	Ø13 ~ 32 mm
Grinding shape	165˚ - 180˚
Collect	ER-40
Rotation speed	6,000 rpm
Dimension	420L x 228W x 229H in mm
Weight	20 kgs.

● Electric chip conveyor with chip bucket

● Drill grinder

ProArc
® SINCE 1966

Drill⁺

Auto Drill Machine
Intelligent Versatile & Powerful

Drill⁺ is an automatic, high efficiency and performance CNC drilling machine.
ProArc makes drilling process friendly and simple.

Table type

We love metal arts
Welding · Cutting · Drilling · · · · · · · · · · · · · Since 1966

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SD-4005IE

Drill⁺

ProArc *Drill⁺* is an automatic, high efficiency and performance CNC drilling machine. Automatic drilling process is constituted by Z axis servo lifter, tool length detector and plate height measuring device. It can increase the drilling efficiency and prevent mis-opreation. ProArc *Drill⁺* makes drilling process easy and friendly.

Features

● **Automatic tool length detector– one touch**
Save manual measurement time and avoid inaccuracy tolerance

● **Automatic plate thickness measurement device (option for gantry type)**
Hydraulic clamper with encoder to check the plate thickness after clamping.

● **Quick Tool change device**
Standard BT Shank design to support quick tool change

● **IPC based CNC control system**
Unique and intuitive GUI with 15" touch panel for easy operation

● **Multi-task process**
Multi-home positions can execute different jobs in one process

● **Multi-application**
Available for drilling, tapping and nibbling process

● **Fast marking**
Verify the first article inspection

● **Teach mode**
Create the drawing on-site by defining the coordinates

● **CAD/CAM system**
The controller is built-in Drill⁺ CAM software which can read and edit dxf file on-site

● **Safety protection design**
Spindle is prohibited moving to working area during parts loading and unloading

● **Simulation for position check**
Simulate the drilling process to prevent interference of drills with bolster and supporting block

● **Linear brake and clamp to keep stable drilling**

● **Both Coolant Through Spindle (CTS) and from side are standard**

● **Plate alignment function**

● **Auto lubrication device**

Gantry only

● Working length is extendable by increasing the rail length at actual requirement
● Drilling table and electric chip conveyor available (option)

Drill⁺ 1640

Table type

Specification			
Model	Unit	*Drill⁺* 1020	*Drill⁺* 1640
Table size	mm	1,000 x 2,000	1,600 x 4,000
Z lifter effective stroke	mm	350	
Plate thickness	mm	100	
Positioning accuracy	mm	± 0.1	
Positioning speed	m/min	16	
Number of spindle		1	1~2
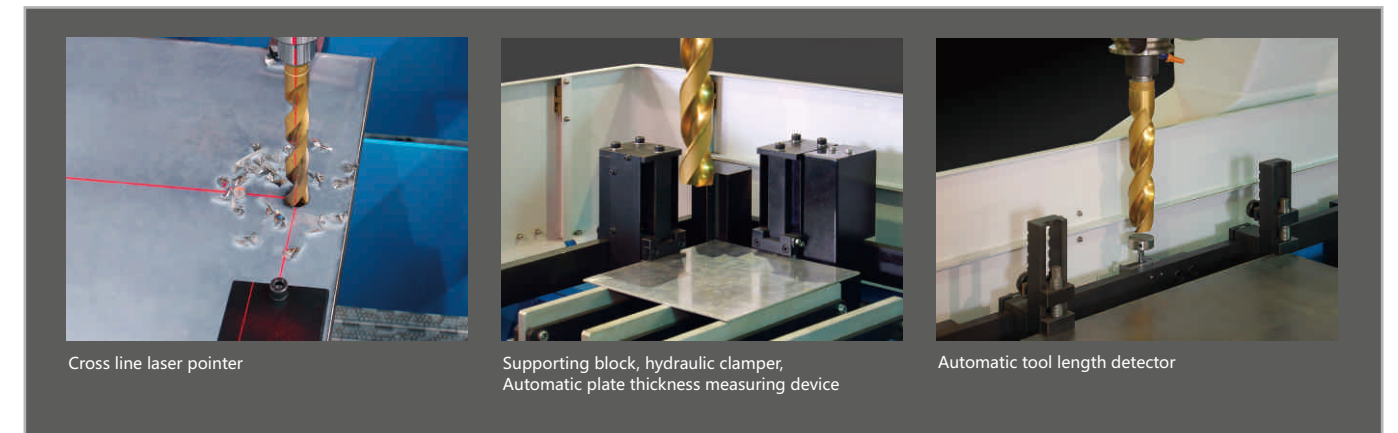
Cross line laser pointer

Supporting block, hydraulic clamper, Automatic plate thickness measuring device

Automatic tool length detector

Gantry type

Specification								
Model	Unit	*Drill⁺* 25	*Drill⁺* 30	*Drill⁺* 35	*Drill⁺* 40	*Drill⁺* 50	*Drill⁺* 60	*Drill⁺* 80
Table size	mm	1,700 x L	2,200 x L	2,700 x L	3,200 x L	4,200 x L	5,200 x L	7,200 x L
Parking space	mm	1,500				2,000		
Z lifter effective stroke	mm	350						
Track length (section)	mm	3,000						
Plate thickness	mm	100						
Positioning accuracy	mm	± 0.1						
Positioning speed	m/min	16						
Number of spindle		1 ~ 2						

Drill Spindle

Drill Spindle			
Model	Unit	DS-050	DS-080
Drills number		1	
Drive motor	hp	15	30
Drilling capacity	mm	Ø6 ~ 50	Ø6 ~ 80
Speed	rpm	10 ~ 2,000	
Effective length[*1]	mm	215 ~ 375	
Shank-standard		BT40-MT4	BT50-MT4
Shank-tapping (option)		BT40-TPM830[*2]	BT50-TPM830[*2]
		TPC830[*3]	TPC830[*3]
Shank-indexible drills (option)		BT40-SLA-OD	BT50-SLA-OD[*4]

[*1] Effective length: From spindle nose-end to drills end
[*2] Shank w/ tapping chuck
[*3] Quick change tapping collets
[*4] Shank w/ side lock holder

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