

### 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  $\emptyset$ 6 ~  $\emptyset$ 80 mm (Max.  $\emptyset$ 100 mm). Standard BT shank designed for tools quick change by one touch and automatic tool change.

## **Optional Accessories:**

**Electric chip conveyor** Remove chips Coolant can be recycled

Chip bucket Remove chips



Electric chip conveyor with chip bucket

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

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

DS servo spindle

## 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.





# Auto Drill Machine Intelligent Versatile & Powerful

Drill<sup>®</sup> is an automatic, high efficiency and performance CNC drilling machine. ProArc makes drilling process friendly and simple.









ProArc *Drill<sup>\*</sup>* 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  $\mathcal{D}$ rill<sup>\*</sup> 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<sup>+</sup> 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 Iubrication device

## **Gantry only**

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







Cross line laser pointer

ting block, hydraulic clamper, atic plate thickness measuring device

Gantry type Specification								
								Model
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				
Model	Unit	DS-050	DS-080	
Drills number			1	
Drive motor	hp	15	30	
Drilling capacity	mm	Ø6 ~ 50	Ø6 ~ 80	
Speed	rpm	10 ~ 2,300		
Effective length <sup>*1</sup>	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



e type							
ecification							
del	Unit	Drill* 1020	Drill* 1640				
ole size	mm	1,000 x 2,000	1,600 x 4,000				
fter effective stroke	mm	350					
te thickness	mm	100					
sitioning accuracy	mm	± 0.1					
sitioning speed	m/min	16					
mber of spindle		1	1~2				



