

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

UNITED PROARC CORPORATION

No.3, Gungye 10th Rd., Pingjen Industrial Park, Pingjen Dist., Taoyuan City 32459, Taiwan
Phone: +886 3 469 6600 Fax: +886 3 469 4499
E-mail: sales@proarc.com.tw , <http://www.proarc.com.tw>

SD-4005IE

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

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-operation. ProArc Drill⁺ makes drilling process easy and friendly.

Features

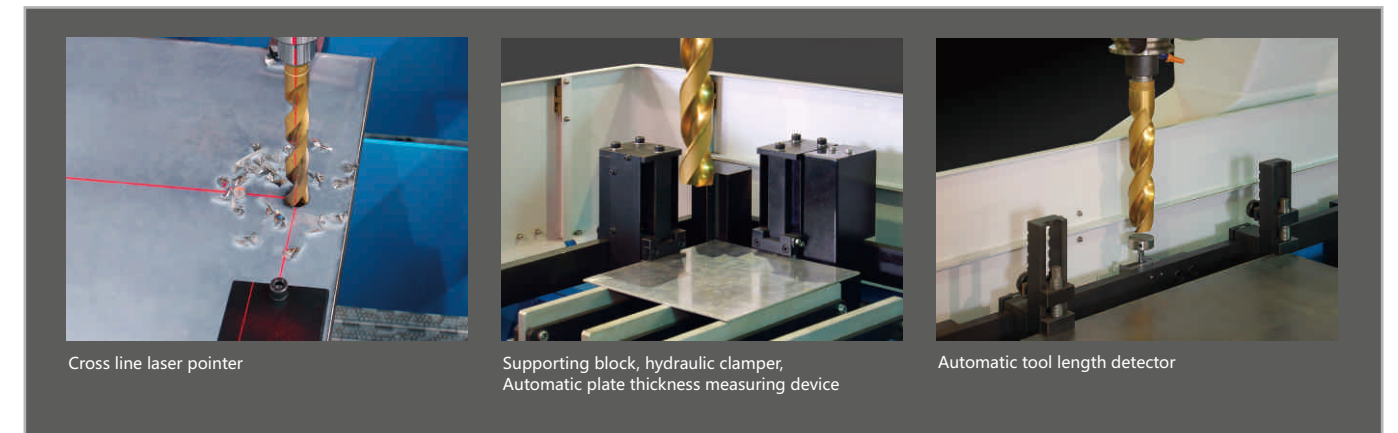
- **Automatic tool length detector- one touch**
Save manual measurement time and avoid inaccuracy tolerance
 - **Automatic plate thickness measurement device (option for gantry type)**
Hydraulic clamber with encoder to check the plate thickness after clamping.
 - **Quick Tool change device**
Standard 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 clamber, 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			
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

