

SUBSTRATE

MICRO LED

MICRO DRILLING



# FALCON

## Substrate Drilling Machine



## FALCON Substrate Drilling Machine

Models	FS-6-2227	FT-6-2227	FXY-6-2227
Description	Speed Substrate Drilling	Precision Substrate Drilling	Aligned Substrate Drilling
Axis Drive Concept	Standard	Tandem Y-Axis	Multi XY
Axis Drive Speed	XY 100 m/min – Z 50 m/min	XY 100 m/min – Z 50 m/min	XY 100 m/min – Z 60 m/min
Spindles	T200 X(20-200k) full range T250 (20-250k) full range PS300 (40-300k) =< 3.2mm	T200 X(20-200k) full range T250 (20-250k) full range PS300 (40-300k) =< 3.2mm	T200 X(20-200k) full range T250 (20-250k) full range PS300 (40-300k) =< 3.2mm
Panel Size	22.5" x 27.0" (572x685 mm)	22.5" x 27.0" (572x685 mm)	22.4" x 27.0" (570x685 mm)
CCD Registration (Optional)	Not applicable	Not applicable	High Resolution Cameras
Basic Accuracy (Schmoll Standard Test)	+/- 15 µm (18 µm @ CPK 1.67)	+/- 13 µm (17 µm @ CPK 1.67)	+/- 12 µm (15 µm @ CPK 1.67)
Automation Concept (Recommended)	DTE (2 Level) or QLB (4 Level)	DTE (2 Level) or QLB (4 Level)	DTE (2 Level) or QLB (4 Level)
Weight (Net/Gross)	11,600kg/ 12,300kg	11,600kg/ 12,300kg	11,900kg/ 12,600kg
Air Consumption	Pressure 7 - 7.5 bar, Consumption l/min (avg/max), T200X 660/825, T250 618/978, PS300 1068/1133		
Dimension (w/o Automation)	4,180 x 2,000 x 1,770 mm	4,180 x 2,000 x 1,770 mm	4,180 x 2,050 x 1,770 mm

### Common Specifications

Machine Base	Full Body Granite
Controller	S80 – Latest Technology High Performance Controller with Industry 4.0 connectivity
X/Y/Z – axis drive	AI-driven wear and maintenance free linear motor
Tooling System	Prism-Slot Tooling pin Ø 3-5mm with Online Accuracy Check (OAC)
Tool Cassette	JTC 6 x 50 tools (optional 6 x 100 ringless UT)
Contact Bit Detection (CBD)	Real time broken bit detection, Quick Drill Function, Z-stroke optimization
Pressure Foot	3 PPF (3 position pressure foot) with 2 mm, 3.6 mm or 8 mm – Easy clean function
Temperature Control	Smart Climate Control
Required Room Conditions	Room Temperature 22 +/- 1°C - Humidity 55% - 65%
Power Connection	380/400 V ± 5% (machine input power), 50/60Hz, 3 phase, avg10 kVA, max 16 kVA

### Schmoll Maschinen HQ

Schmoll Maschinen (Germany)  
Odenwaldstraße 67  
D-63322 Rödermark/Ober-Roden  
Germany  
☎ +49 60 74 89 01-0  
✉ info@schmoll-maschinen.de  
🌐 www.schmoll-maschinen.de

### Schmoll Asia Pacific

SAP Hong Kong (Head Office)  
☎ +852-28505909  
✉ sales@schmoll-asia.com  
🌐 www.schmoll-asia.com  
SAP Taiwan  
☎ +886-3-3583808  
SAP Dongguan  
☎ +86-769-22419199  
SAP Kunshan  
☎ +86-512-57371850

SAP Korea  
☎ +82-31-4978779  
SAP Thailand  
☎ +66-2-711-7349-50  
SAP Japan (Head Office Osaka)  
☎ +81-6-6531-2127  
SAP Malaysia  
☎ +60 (0)4 588 7396

Schmoll-asia.com



Schmoll WeChat

