SUBSTRATE

MICRO LED

MICRO DRILLING

schmoll asia pacific

S80 Next Gen High Speed Controller
NEW

Durable High Performance **Spindles**

High Speed **AI- Drives**
NEW

Smart **Climate Control**
NEW



NEW
Industry 4.0 Connectivity

Solid **Granite Structure**

NEW
Automated Collet Cleaning

NEW
Active **Process Monitoring**

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FALCON

Substrate Drilling Machine

MADE IN GERMANY

Rev. 02/2025

SPECIFICATIONS

schmoll asia pacific

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"x27.0" (572x685 mm)	22.4"x27.0" (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

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