

## 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<br>T250 (20-250k) full range<br>PS300 (40-300k) =< 3.2mm             | T200 X(20-200k) full range<br>T250 (20-250k) full range<br>PS300 (40-300k) =< 3.2mm | T200 X(20-200k) full range<br>T250 (20-250k) full range<br>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      |

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