

ACCURACY, PRODUCTIVITY AND RELIABILITY



# dynamic

THE ART OF UNIVERSAL DRILLING



## **New table design**

Highest accuracy and productivity

## **Full range PX220S or PX170S synchronous spindles**

The right cutting speed for every tool diameter

## **Linear motors on X, Y and Z axes**

Higher accuracy, productivity and reliability

## **Extremely accurate depth control drilling**

Precise blind hole drilling and back-drilling

## **Merge stations**

Ability to drill large panels and back-panels

*UltraSpeed*

Choice of synchronous spindles (on air bearings) Full range high torque	PX220S	PX170S
Rotation speed	20 - 200 krpm	8 - 160 krpm
Drilling capacity	Max. 6.35 mm (1/4")	Max. 6.35 mm (1/4")
Tool shank diameter	3.175 mm (1/8")	3.175 mm (1/8")
One individual spindle drive for increased reliability	✓	✓

Choice of the tool management	
Cassette type	220 tools / station
Chain type	6000 tools load by central station
Tool change time including diameter and length measurement	17s

Machine features	
Number of stations	6
Workpiece format on X axis	546.0 mm (21.5")
Workpiece format on Y axis	685.0 mm (27.0")
Velocity of Y axis	75 m/min (2952" min <sup>-1</sup> )
IPF - Automatic change of the pressure foot aperture	✓
Mineral cast base specially designed for linear motors	Coefficient of linear expansion: 12µm·°K <sup>-1</sup> ·m <sup>-1</sup> (same as steel)
Accuracy Check - Fast check of the alignment between clamping system and the spindles	±5 µm (0.2 mil")

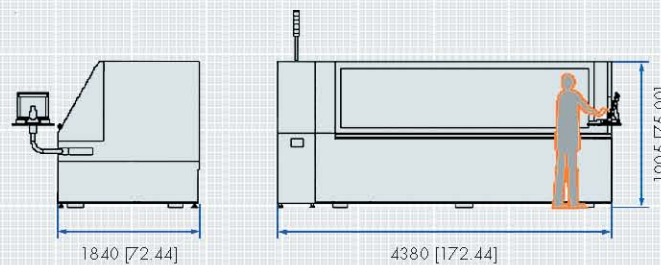
Measuring and monitoring of the tool
DL - Tool diameter and length measuring station
BBD - Real time broken bit detection by contact drill

Posalux CNC 3000 controller
Real time UNIX operating system
Graphical man-machine interface with touch screen
All software developed by Posalux

Linear motors on all axes	X-Axis	Y-Axis	Z-Axis
Velocity	50 m/min (1968" min <sup>-1</sup> )	75 m/min (2952" min <sup>-1</sup> )	30 m/min (2952" min <sup>-1</sup> )
Acceleration	12 m/s <sup>2</sup> (1.22g)	21 m/s <sup>2</sup> (2.1g)	40 m/s <sup>2</sup> (4.1g)
Resolution of measuring system	0.1 µm (0.004 mil")	0.1 µm (0.004 mil")	0.1 µm (0.004 mil")

Options
Software for stretching or shrinking
SPC - Statistical process control
BDE - production data logging (DNC system is needed for data processing)
Blind hole drilling by contact drill (back-drill included) ±10 µm (±0.4 mil")
Merge station - To drill large size panels across multiple stations
Tool cleaning station
Joker - This function avoids good tools from being discarded

Quality assurance (according to Posalux standard)	
Drilling accuracy	±18µm (±0.7 mil")



Mass: approx. 8'250 Kg [18'208 lb]  
Localized load: 3 leveling points on the floor

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