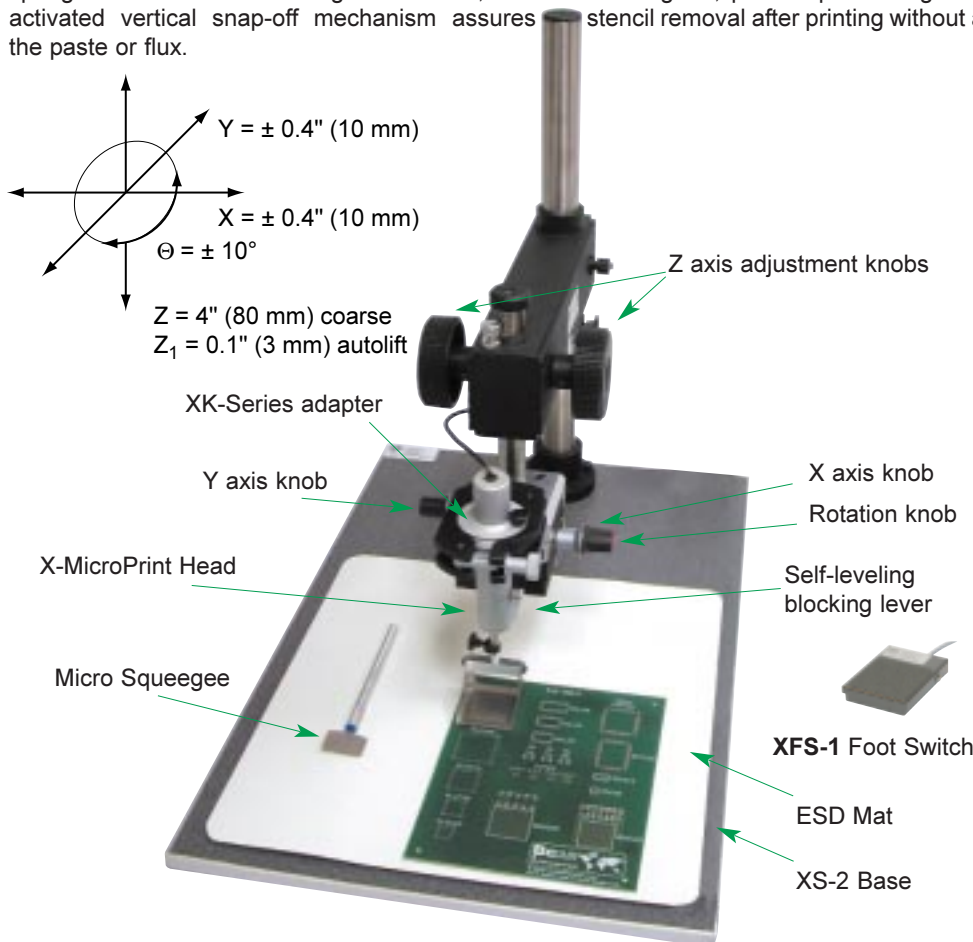


X-MicroPrint System

(Patent Pending)

The System is designed to allow for precision printing of small amounts of paste or printing flux on the land pattern of an SMD Component.

Like no other systems known to date, X-MicroPrint System includes precision X-Y adjustment and Θ (theta) rotation. It includes spring loaded and self-leveling mechanism, which assures good, parallel positioning to the PCB with land pattern. Foot switch activated vertical snap-off mechanism assures stencil removal after printing without any sideways motion, which could smear the paste or flux.



Application of paste



Paste applied with Micro Squeegee.
 Press XFS-1 Foot Switch to snap-off the stencil.



XMP-1 MicroPrint Head and **XK-A1** MicroPrint Head XK-Series adapter are sold separately for use by customers who already have **XK-4** tool holder.

System includes:

- ◆ - **XB-1** ESD Safe work base 12" x 17"
- ◆ - ESD Mat 12" x 12"
- ◆ - **XK-4** Tool Stands with fine X-Y positioning, rotation and up/down Z-axis movement
- ◆ - 12V DC power supply
- ◆ - **XmP-1** Micro Print Head
- ◆ - **XK-A1** Micro Print Head XK-Series adapter
- ◆ - **XMS-1** Micro Squeegee set (includes 6 squeegees) & Cleaning brush set
- ◆ - **XFS-1** Foot Switch

Optional equipment and spares:

- ◆ - Single component stencil (see table below)
- ◆ - **XMS-1** Micro Squeegee set (includes 6 squeegees) and Cleaning brush
- ◆ - **XmP-1** MicroPrint Head
- ◆ - **XK-A1** MicroPrint Head XK-Series adapter

Custom stencils are available upon request. Please supply IC and pattern with dimensions to get a quote.

Standard Stencils: (Please note that matching micro-squeegee is supplied with each stencil)

Part Number	Description	Stencil Footprint size	Component pitch	Aperture Size	Stencil thickness	Metal Squeegee Blades	
		W x D (mm)	(mm/inches)	(inches)	(mm/inches)	Width (mm)	Thickness (mm)
X-B169-1.5	BGA 169 1.5mm pitch	24x24	1.27 / 0.060"	0.030 dia.	0.15 / 0.006	0.880	0.012
X-B225-1.5	BGA 225 1.5mm pitch	27x27	1.50 / 0.060"	0.030 dia.	0.15 / 0.006	1.000	0.012
X-P44-1.27	PLCC 44	22x22	1.27 / 0.050"	0.023 x 0.073	0.2 / 0.008"	0.800	0.012
X-P68-1.27	PLCC 68	30x30	1.27 / 0.050"	0.025 x 0.100	0.2 / 0.008"	1.120	0.012
X-P84-1.27	PLCC 84	37x37	1.27 / 0.050"	0.025 x 0.098	0.2 / 0.008"	1.320	0.02
X-Q100-B	BQFP 100	29x29	0.635 / .025"	0.013 x 0.088	0.15 / 0.006"	1.080	0.012
X-Q100	QFP-100	30x24	0.65 / 0.025"	0.013 x 0.075	0.15 / 0.006"	0.880	0.012
X-Q208	QFP-208	36x36	0.5 / 0.020"	0.010 x 0.060	0.15 / 0.006"	1.370	0.02

How to order complete system:

X-MicroPrint	Single Component printing System
X- - - -	Single Component Stencil

How to order options or parts:

XmP-1	MicroPrint Head
XMS-1	Micro Squeegee set and Cleaning brush
XK-A1	MicroPrint Head XK-Series adapter