

# Prodigy™

## Dispensing System FAQ

### Prodigy Dispensing System

The Camalot Prodigy dispenser enables breakthrough technology to enable higher process speeds, more precise accuracies, and higher yields. A state-of-the-art XY gantry system is the heart of this next generation dispenser. Linear drive technology, refined motion control architecture, and a rigid, innovative frame design provide unmatched performance and reliability.



Q: How does the Prodigy compare to other Camalot dispense systems?

A: Prodigy is an entirely new platform, but incorporating many of the leading features of the FX-D and XyflexPro systems. Prodigy is faster, more accurate, and occupies a smaller footprint.

Q: Why the reduction in size?

A: A smaller space-saving footprint provides greater flexibility in line configurations. Prodigy's footprint is 830mm wide x 1729mm deep yet offers a comparatively large dispenser area..

Q: What is the size of the dispenser area?

A: 440mm x 558mm with a single head. But Prodigy's innovative board staging option can double or even triple the dispense area in the X direction, allowing product of >900mm to be processed.

Q: Can the Prodigy be configured for Dual Lane processing?

A: Yes, the Prodigy can be configured as a 6 zone dual lane system upon order.

Q: What's the smallest dot size the Prodigy can dispense?

A: <300 microns with the NanoShot pump at a cycle rate of up to 600 Hz. With the NanoShot, single shot weights <0.005mg are obtained. Prodigy achieves 1.5g peak XY acceleration.

Q: How accurate is Prodigy?

A: Prodigy holds a +/- 35µm 3 Sigma specification for dot placement accuracy.

Q: What pumps can be used with the Prodigy?

A: NanoShot, SmartStream, 635SD and 680SD auger pumps.

Q: What is 'Dual Head Mode'?

A: Independent or 'Asynchronous' dual head configurability allows dispensing of different materials within one process. Synchronous dual head mode operates both pumps simultaneously and reduces dispense time by approximately 50%.