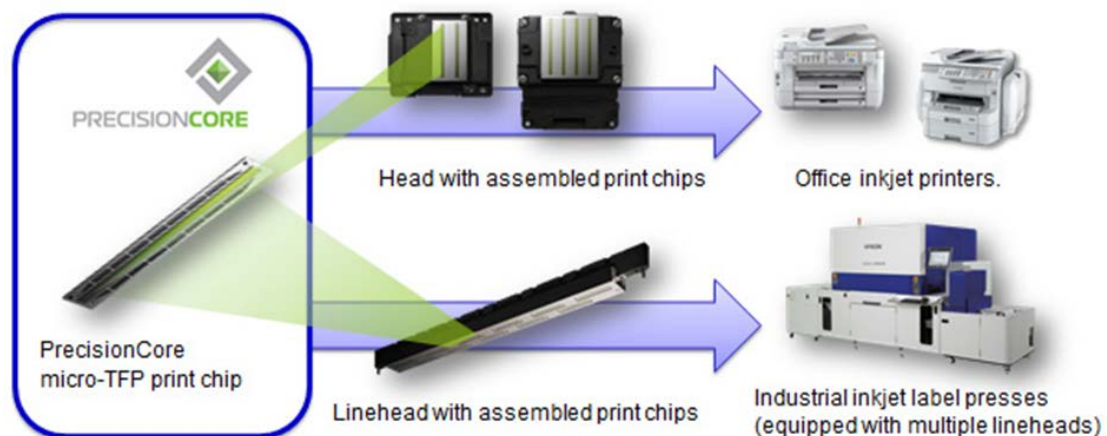


State-of-the-art PrecisionCore printheads

Micro Piezo printheads eject droplets of ink via mechanical pressure. This mechanical pressure is created when piezoelectric elements in the printheads contract in response to an applied voltage. Two main characteristics set Epson's technology apart from other inkjet printing systems. The first is that Micro Piezo printing systems do not use heat to eject the ink droplets. The second is that they precisely control the volume of ink contained in each ink droplet.

PrecisionCore printheads—the ultra-precise core devices that underpin Epson's most powerful inkjet printer products—have individually controlled nozzles, each of which is capable of firing up to 50,000 precise ink droplets per second with astonishing accuracy. This level of precision and performance makes highly sophisticated technology essential for their production. To achieve both high quality and high throughput, Epson employs fully automated production lines that capitalize on Epson's own industrial robots, as well as a combination of inkjet technologies developed over two decades and microfabrication processes that are accurate to one one-thousandth of a millimeter.



PrecisionCore are the core devices in a wide range of Epson printer products

Please see the link below for further details about PrecisionCore.

http://global.epson.com/innovation/core_technology/micro_piezo.html