

# DDM Novastar

## Your turnkey SMT assembly solution

### Apply solder paste



Model SPR-45

#### Stencil Printers

The Gold-Print™ benchtop, semi-automated stencil printers are designed for low to medium volume assembly runs. Precise X,Y, Z and theta axis controls allow for accurate, consistent deposition of solder paste or masking material for SMT.

Controllable squeegee speed and pressure make solder paste deposition precise and repeatable; even for fine pitch applications friendly controls make stencil printing simple & easy.

DDM Novastar offer a range of printers ranging from manual systems to automatic systems to address medium volume production to prototyping applications.

### Place components



Model LS60V  
Automated  
Pick & Place

#### Pick & Place

The L-series automated pick and place includes benchtop units to full vision systems that accommodate a large range of placement applications. Place components such as 0201s, ultra micro BGAs, CSPs, QFPs & fine pitch components down to 15 mil pitch.

These units were specifically designed for facilities where quick set-up, ease of operation and high reliability are paramount.

Let DDM Novastar be the solution to your SMT challenges. We have over 25 years experience in setting up, servicing, and supporting these systems. We provide a range of manual and automatic systems to fit what-ever application you might have, from proto-typing to mid-volume production.

### Solder reflow PCBs



Model GF-120-HT  
Shown with stand option

#### Reflow Ovens

The Gold-Flow™ GF-120 series features computer controller with built in real-time, graphic temperature profiler, horizontal convection, true 3 vertical zone heating in 41" tunnel, separate cooling zone, stainless steel 12" wide conveyor and chambers, ISO 9000 SPC fault monitoring & reporting, and viewing windows with lighting throughout.

The models 1800 and 2000 have many big oven features for higher volume reflow applications.

The GF-12 & GF-B benchtop ovens fill the need for smaller production runs and prototyping, making the range of reflow products fit most soldering applications.

# Paste



# Place

# Reflow

DDM Novastar provides turnkey solutions for prototyping, pilot manufacturing, and volume PCB and SMT assembly. Below are just a few examples of configured systems for specific applications. Choose from one of these or configure a custom system to meet your specific application needs. Visit [www.ddmnovastar.com](http://www.ddmnovastar.com) for a complete listing of all our products.

Medium Volume Throughput	Low Volume Throughput	Automatic Prototyping	Pilot Manufacturing	Manual SMT Prototyping
 <p data-bbox="86 483 443 516">SPR-45VA Stencil Printer</p>	 <p data-bbox="541 488 863 521">SPR-45 Stencil Printer</p>	 <p data-bbox="961 488 1283 521">SPR-45 Stencil Printer</p>	 <p data-bbox="1339 488 1661 521">SPR-25 Stencil Printer</p>	 <p data-bbox="1711 488 2032 521">SPR-20 Stencil Printer</p>
 <p data-bbox="107 971 422 1040">LS-60V Pick &amp; Place Machine</p>	 <p data-bbox="548 971 863 1040">LS-40 Pick &amp; Place Machine</p>	 <p data-bbox="968 971 1276 1040">CS-40 Pick &amp; Place Machine</p>	 <p data-bbox="1346 971 1661 1040">LE-40V Pick &amp; Place Machine</p>	 <p data-bbox="1717 971 2032 1040">MPP-21 Pick &amp; Place Machine</p>
 <p data-bbox="107 1437 422 1469">1800 HT Reflow Oven</p>	 <p data-bbox="527 1437 877 1469">GF-120 HT Reflow Oven</p>	 <p data-bbox="989 1437 1262 1469">GF-B Reflow Oven</p>	 <p data-bbox="1333 1437 1661 1469">GF-12 HT Reflow Oven</p>	 <p data-bbox="1732 1437 2005 1469">GF-B Reflow Oven</p>