

# Universal GSM-II

## High Volume Placement Machine

### Features

- High Volume, Fine Pitch Placement Design
- Precision Linear Scales
- Brushless DC Motors
- On-The-Fly Vision System
- Two Beams - One Placement Head Mounted In Each Beam
- Graphical Interface with an On-Line Component Database
- CAD Translation
- Machine Performance Simulator



### EQUIPMENT SPECIFICATIONS

#### FLOOR SPACE REQUIREMENTS

A minimum of 3 feet (1m) around the machine is recommended to allow sufficient room for operation

#### MACHINE DIMENSIONS

66in. (1676mm) wide x 86in. (2184mm) deep x 100in. (2540mm) high

#### Approximate Shipping Weight

6,500 lb (2951 kg)

#### PNEUMATIC REQUIREMENTS

6 cfm @ 90 psi (113.3 l/min @ 6.22 bar)

#### ELECTRICAL REQUIREMENTS

230 VAC Nominal  
50/60 Hz, 3 Phase  
30 Amps

#### PLACEMENT SPECIFICATIONS

*Final Placement Performance:*

50 Defects per Million (dpm)

*Intrinsic Availability:* 98 %

*X,Y Accuracy:* +/- 0.00150 in. (0.0381mm)

*X,Y Repeatability:* < 0.000667in. (0.0169mm)

*Rotational Accuracy:* +/- 0.06 Degree

*Rotational Repeatability:* < 0.0466 Degree

#### PLACEMENT RATE

Test Board Rated at 10,000 Components per Hour

#### POSITIONING SYSTEM

X Axis Travel: 28.640in. (727.46mm)

Y Axis Front Beam Travel: 28.375in. (720.73mm)

Y Axis Rear Beam Travel: 30.000in. (762.00mm)

#### PLACEMENT HEAD COMBINATIONS

General Application Placement Heads  
Non-Contact Chip Heads, NCC8

#### BOARD PARAMETERS

*Maximum:* 20in. x 18in. (508mm x 457mm)

*Minimum:* 2in. x 2in. (51mm x 51mm)

*Board Thickness:*

0.020in.(0.508mm) to 0.200in.(5.08mm)

*Topside Clearance:* 0.500in. (12.7 mm)

*Bottomside Clearance:* Dependent on Component

Orientation 0.500in. (12.7mm)/ 1.0in. (25.4mm)

*Registration:* Top Edge Register, Front Edge Register,

Tooling Pin, Vision (PEC)

*Transfer Direction:* Left to Right



*Northern Electronics Automation, Inc.*

6 George Avenue, Londonderry, NH. USA 03053

Tel: 603. 669.6080

Fax: 603. 669.7033

Email: [Sales@neainc.com](mailto:Sales@neainc.com)

Website: [www.neainc.com](http://www.neainc.com)