



|  | 3Dn-Tabletop  | 3Dn-300   | 3Dn-500   |
|--|---|---|---|
| <b>X/Y Accuracy</b>                    | ± 10 µm   | ± 5 µm  | ± 1.5 µm  |
| <b>X/Y Bidirectional Repeatability</b> | ± 1 µm  | ± 2 µm  | ± 0.5 µm  |
| <b>X/Y Maximum Acceleration</b>        | 0.5g (no load)  | 2g (no load)  | 5g (no load)  |
| <b>X/Y Drive System</b>                | Ball Screw/Brushless Servomotor                                     | Linear Brushless Servomotor   | Linear Brushless Servomotor   |
| <b>X/Y Maximum Speed</b>               | 300 mm/s  | 500 mm/s  | 500 mm/s  |
| <b>X/Y Travel Range</b>                | 300 x 150 mm  | 300 x 300 mm  | 500 x 500 mm  |
| <b>X/Y Resolution</b>                  | 100 nm  | 5 nm  | 5 nm  |
| <b>Z Accuracy</b>                      | ± 6 µm (± 5µm*)   | ± 5 µm  | ± 5 µm  |
| <b>Z Bidirectional Repeatability</b>   | ± 1 µm  | ± 0.7 µm  | ± 1 µm  |
| <b>Z Drive System</b>                  | Ball Screw/Brushless Servomotor                                     |   |   |
| <b>Z Maximum Speed</b>                 | 50 mm/s   | 100 mm/s  | 300 mm/s  |
| <b>Z Travel Range</b>                  | 100 mm  | 150 mm  | 150 mm  |
| <b>Z Resolution</b>                    | 100 nm  |   |   |
| <b>User Interface</b>                  | Machine Tool Software, PC and Monitor Included                      |   |   |
| <b>Base Plate</b>                      | Cast Aluminum   |   |   |
|  | Cast Aluminum Risers & Cross-Bridge                                 |   |   |
|  | Category 3 Safety Enclosure   |   |   |
| <b>WorkStation</b>                     | STRONGARM Workstation Included<br>Steel Stand with Casters Included | STRONGARM Workstation Included<br>Steel Frame with Leveling Feet Included | STRONGARM Workstation Included<br>Steel Frame with Leveling Feet Included |
| <b>Dimensions</b>                      | 38 x 36 x 48"<br>97 x 92 x 122 cm                                   | 44 x 37 x 69"<br>112 x 94 x 176 cm  | 54 x 51 x 84"<br>112 x 94 x 176 cm  |
| <b>Weight</b>                          | 500 lbs<br>227 kg   | 3000 lbs<br>1361 kg   | 3000 lbs<br>1361 kg   |
| <b>Electrical Requirements</b>         | Single Phase, 120VAC, 10 A**  | Single Phase, 120VAC, 20 A**  | Single Phase, 120VAC, 20 A**  |
| <b>Compressed Air Requirements</b>     | 80 to 120 psi, Dry Filtered Air or Nitrogen                         |   |   |
| <b>Vacuum Requirements</b>             | 2 m <sup>3</sup> /h Minimum Flow Rate                               |   |   |
| <b>SMEMA Capable (Belt Feed)</b>       | No  | Yes   | Yes   |

| Additional Options                  |                                       |                           |                          |
|-------------------------------------|---------------------------------------|---------------------------|--------------------------|
| Platforms                           | Pumps                                 | Vision                    | Miscellaneous            |
| Custom Platform Size                | SmartPump™ 100                        | Real-Time Process View    | Overhead HEPA Filtration |
| Bio-Compatible Upgrade              | Heated SmartPump™ 100                 | nVision                   | UV Spot Curing Source    |
| Cleanroom Stages Upgrade            | nFD Pump                              | nVision Pro               | Pick and Place           |
| Load Capacity Upgrade               | Pneumatic Pressure Pump               | Automatic Calibration Pit | Heated Bed               |
| Up to Quad-Head Tool Plate          | Heated Pneumatic Pressure Pump        | nScan Surface Mapping     | Vacuum Chuck             |
| Heater Control System               | nPD Heated Positive Displacement Pump | nScan Surface Mapping Pro | Rotary Stage             |
| Factory Enhanced Stage Calibration* | Three-head Mixer Pump*                | Post-Process Inspection   | Laser Integration***     |

\* Only available for the 3Dn-Tabletop Platform.

\*\* Power requirements may be adjusted to meet specific customer needs.

\*\*\* Customization option subject to customer needs.

Varying system sizes may be available on request. All values listed are approximations. Pump, accessory, and configuration options may vary. Option availability is dependent on gantry size and specific customer needs - please contact [info@nscript.com](mailto:info@nscript.com) with any questions.