

## Motion Specifications

X/Y Accuracy  
 $\pm 2.5 \mu\text{m}$

X/Y Bidirectional Repeatability  
 $\pm 1 \mu\text{m}$

X/Y Maximum Acceleration  
5000 m/s (no load)

X/Y Drive System  
Brushless Linear Motor

X/Y Maximum Speed  
500 mm/s

X/Y Travel Range  
700 x 700 mm

X/Y Resolution  
10 nm – 20 nm

Z Accuracy  
 $\pm 3 \mu\text{m}$

Z Bidirectional Repeatability  
 $\pm 1 \mu\text{m}$

Z Drive System  
Ball Screw/Linear Stage

Z Maximum Speed  
200 mm/s

Z Travel Range  
200 mm

Z Resolution  
.5  $\mu\text{m}$

RS:  
210 °

RT:  
App.  $\pm 90^\circ$

RR:  
360° infinite continuous  
revolution (w/o heated bed)

# The 3Dx-700



nScript's 3Dx-700 offers an all in one product manufacturing solution. The 3Dx-700 is a high precision, material agnostic, gantry-based system offering a 5/6 axis motion platform with multi-tool and processing capabilities. Relying on pneumatic ports along with pneumatic clamps, the system's tool changer switches seamlessly between the SmartPump™, nFD™, nMill™ and nPnP™. Using an advanced software package, nStudio™, the 3Dx-700 moves the toolheads along a path normal to multi curved surfaces, allowing for true 3 dimensional manufacturing.

Enabling the user to go directly from CAD file to a complete, fully functioning product, including electronics, the 3Dx-700 transforms the 3D printing of parts into the 3D manufacturing of electrically functional structures, a complete finished product.

Features include 8 Bay Tool Changer, Rotary Heated Bay, 150 x 100 Printable, SmartPump™, 100 Real Time Process View, nVision, AutoCal Pit, Auto Clean Pit



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