

3DM SERIES







	3Dn-Tabletop	3Dn-300	3Dn-500	
X/Y Accuracy	± 10 μm (± 5μm*)	± 5 µm	± 1.5 μm	
X/Y Bidirectional Repeatability	± 1 µm	± 2 μm	± 0.5 µm	
X/Y Maximum Acceleration	0.5g (no load)	2g (no load)	5g (no load)	
X/Y Drive System	Ball Screw/Brushless Servomotor	Linear Brushless Servomotor	Linear Brushless Servomotor	
X/Y Maximum Speed	300 mm/s	500 mm/s	500 mm/s	
X/Y Travel Range	300 x 150 mm	300 x 300 mm	450 x 450 mm	
X/Y Resolution	100 nm	5 nm	5 nm	
Z Accuracy	± 6 μm (± 5μm*)	± 5 μm	± 3 μm	
Z Bidirectional Repeatability	± 1 µm	± 0.7 µm	± 1 μm	
Z Drive System	Ball Screw/Brushless Servomotor			
	50 mm/s	100 mm/s	300 mm/s	
Z IVIAXIMUM Speed			, ,	
Z Maximum Speed Z Travel Range	100 mm	150 mm	150 mm	
Z Travel Range Z Resolution	100 mm	150 mm 100 nm	150 mm	
Z Travel Range Z Resolution User Interface		achine Tool Software, PC and Monitor Included	150 mm	
Z Travel Range Z Resolution		achine Tool Software, PC and Monitor Included Cast Aluminum	150 mm	
Z Travel Range Z Resolution User Interface		lachine Tool Software, PC and Monitor Included Cast Aluminum Cast Aluminum Risers & Cross-Bridge	150 mm	
Z Travel Range Z Resolution User Interface	N.	lachine Tool Software, PC and Monitor Included Cast Aluminum Cast Aluminum Risers & Cross-Bridge Category 3 Safety Enclosure		
Z Travel Range Z Resolution User Interface Base Plate		lachine Tool Software, PC and Monitor Included Cast Aluminum Cast Aluminum Risers & Cross-Bridge	150 mm STRONGARM Workstation Included	
Z Travel Range Z Resolution User Interface	N.	lachine Tool Software, PC and Monitor Included Cast Aluminum Cast Aluminum Risers & Cross-Bridge Category 3 Safety Enclosure	STRONGARM Workstation Included Steel Frame with Leveling Feet Include	
Z Travel Range Z Resolution User Interface Base Plate WorkStation	N STRONGARM Workstation Available	lachine Tool Software, PC and Monitor Included Cast Aluminum Cast Aluminum Risers & Cross-Bridge Category 3 Safety Enclosure STRONGARM Workstation Included	STRONGARM Workstation Included	
Z Travel Range Z Resolution User Interface Base Plate	STRONGARM Workstation Available Steel Stand with Casters Available	lachine Tool Software, PC and Monitor Included Cast Aluminum Cast Aluminum Risers & Cross-Bridge Category 3 Safety Enclosure STRONGARM Workstation Included Steel Frame with Leveling Feet Included	STRONGARM Workstation Included Steel Frame with Leveling Feet Include	
Z Travel Range Z Resolution User Interface Base Plate WorkStation Dimensions	STRONGARM Workstation Available Steel Stand with Casters Available 38 x 36 x 48"	lachine Tool Software, PC and Monitor Included Cast Aluminum Cast Aluminum Risers & Cross-Bridge Category 3 Safety Enclosure STRONGARM Workstation Included Steel Frame with Leveling Feet Included 44 x 37 x 69"	STRONGARM Workstation Included Steel Frame with Leveling Feet Included 54 x 51 x 84"	
Z Travel Range Z Resolution User Interface Base Plate WorkStation	STRONGARM Workstation Available Steel Stand with Casters Available 38 x 36 x 48" 97 x 92 x 122 cm	lachine Tool Software, PC and Monitor Included Cast Aluminum Cast Aluminum Risers & Cross-Bridge Category 3 Safety Enclosure STRONGARM Workstation Included Steel Frame with Leveling Feet Included 44 x 37 x 69" 112 x 94 x 176 cm	STRONGARM Workstation Included Steel Frame with Leveling Feet Included 54 x 51 x 84" 112 x 94 x 176 cm	
Z Travel Range Z Resolution User Interface Base Plate WorkStation Dimensions	STRONGARM Workstation Available Steel Stand with Casters Available 38 x 36 x 48" 97 x 92 x 122 cm 500 lbs	lachine Tool Software, PC and Monitor Included Cast Aluminum Cast Aluminum Risers & Cross-Bridge Category 3 Safety Enclosure STRONGARM Workstation Included Steel Frame with Leveling Feet Included 44 x 37 x 69" 112 x 94 x 176 cm 3000 lbs	STRONGARM Workstation Included Steel Frame with Leveling Feet Included 54 x 51 x 84" 112 x 94 x 176 cm 3000 lbs	
Z Travel Range Z Resolution User Interface Base Plate WorkStation Dimensions Weight	STRONGARM Workstation Available Steel Stand with Casters Available 38 x 36 x 48" 97 x 92 x 122 cm 500 lbs 227 kg	achine Tool Software, PC and Monitor Included Cast Aluminum Cast Aluminum Risers & Cross-Bridge Category 3 Safety Enclosure STRONGARM Workstation Included Steel Frame with Leveling Feet Included 44 x 37 x 69" 112 x 94 x 176 cm 3000 lbs 1361 kg	STRONGARM Workstation Included Steel Frame with Leveling Feet Included 54 x 51 x 84" 112 x 94 x 176 cm 3000 lbs 1361 kg	
Z Travel Range Z Resolution User Interface Base Plate WorkStation Dimensions Weight Electrical Requirements	STRONGARM Workstation Available Steel Stand with Casters Available 38 x 36 x 48" 97 x 92 x 122 cm 500 lbs 227 kg	lachine Tool Software, PC and Monitor Included Cast Aluminum Cast Aluminum Risers & Cross-Bridge Category 3 Safety Enclosure STRONGARM Workstation Included Steel Frame with Leveling Feet Included 44 x 37 x 69" 112 x 94 x 176 cm 3000 lbs 1361 kg Single Phase, 120VAC, 20 A**	STRONGARM Workstation Included Steel Frame with Leveling Feet Included 54 x 51 x 84" 112 x 94 x 176 cm 3000 lbs 1361 kg	

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.

NCS TECHNOLOGIES

Joe Andrews • Director, 3D Print & Services

(703) 848-5169 (mobile) • jandrews@ncst.com • www.ncst.com

Vacuum Requirements

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@nscrypt.com with any questions.

^{**} Power requirements may be adjusted to meet specific customer needs.

^{***} Customization option subject to customer needs.