

The nFD™ device is driven by a high-precision computer controlled system that allows the user to precisely place materials in a specified XYZ location. The size of the nFD™ was also designed with the approach that size matters and therefore this device has an intentionally narrow profile to allow multiple devices to be utilized on a single hardware platform. The nFD™ was designed to print thermoplastics utilizing a flexible approach that allows the user to choose pen tip shapes and sizes. The interchangeable nozzles, nTips™, allow users to print parts more accurately than any other 3D printing system. With a wide operating temperature range, the nFD™ is capable of printing a variety of materials including but not limited to ABS, PLA, and ULTEM. The nFD™ also features two thermocouple slots, one for the temperature control loop and a second for a safety limiter. A heater control system and heated bed are required.

**SIZE:**

H 180 x W 25 x D 64.8MM  
(H 7.09 x W 0.98 x D 2.55 IN)

**WEIGHT:**

0.41 KG (0.9 LB)

**MATERIAL NEEDED:**

1.75MM FILAMENT  
(+/- 0.1MM)

**TEMPERATURE RANGE:**

UP TO 400° C  
(UP TO 752° F)

**PARTS INCLUDED:**

NFD™ PUMP WITH DOVETAIL  
K-TYPE THERMOCOUPLE (2)  
NOZZLE HEATER  
HEAT BREAK  
HEATING ELEMENT  
CERAMIC NTIP

**FEATURES:**

- LIGHT WEIGHT AND SMALL FACTOR
- INTERCHANGEABLE NOZZLES
- REDUCED RESOLUTION
- BROAD MATERIAL COMPATIBILITY

**STANDARD CERAMIC NTIP SIZE CHART**

(Contact us for larger or custom sizes)

NTIP PART#	I.D. (µM)	O.D. (µM)
900-4000-014	10	25
900-4000-015	15	25
900-4000-002	25	50
900-4000-003	50	75
900-4000-004	50	100
900-4000-005	75	125
900-4000-006	100	150
900-4000-007	125	175

