

Wire Cut EDM Neospark T 500



TECHNICAL SPECS

WORKING AREA

Table dimensions	31 in x 20 in
Workpiece, length x width x thickness (max.)	47 in
Workpiece weight (max.)	1320 lbs
Travel X-axis	20 in
Travel Y-axis	16 in
Travel U / V-axis	±1,38 in
Z-axis travel	12 in
Rapid feed X-/ Y-axis	39 fpm
Cutting angle (with guide)	± 12° / 3,15 in
Cutting capacity (max.)	0.46 in²/min
Generator	10 A

CNC CONTROL

Display size / type	15" / LED
Controlled axis	4
Input increment (min.)	0.00004 in

DIELECTRIC SYSTEM

Dielectric, tank capacity 26 gal

FEED	
Rapid feed X / Y axis	39 in/min

ACCURACIES

Positioning accuracy X- / Y-axis	≤0,0004 in
Positioning accuracy U/V axis	≤0,001 in
Repeatability X- / Y-axis	≤0,0002 in
Repeatability U / V axis	≤0,0004 in
Best surface roughness	0.8 µm Ra

DRIVE CAPACITY

Motor rating X / Y axis	1 Нр
Motor rating U / V axis	0.27 Hp
Motor rating Z-axis	0.27 Hp
Total power consumption	2.3 kVA
Supply voltage	380 (±10%) / 50 or 60Hz V

MEASURES AND WEIGHTS

Overall dimensions (length x width x height)	72 in x 54 in x 91 in
Weight	6160 lbs

SKU: 180563

The machines of the NeoSpark CNC series are among the most precise wire EDM machines with reciprocal wire guidance on the market. They offer excellent performance when machining electrically conductive materials in mold and tool making. The NeoSpark series is a popular choice for companies that specialize in additive manufacturing and want to separate the finished part from its base plate with high precision. High speed wire cutting guarantees deformation-free and burr-free cutting of even the most delicate 3-D printed metal structures with the best surface quality

- Electrical discharge machining with highest cost-efficiency
- C3 class ballscrew transmission on XYUV axis
- Easily programmable CNC control with integrated CAD/CAM software
- Real-time system diagnostics, high process reliability
- Time-saving programming during the machining process











PRODUCT DETAILS

- The NeoSpark T Electric Discharge Machine delivers excellent cutting performance, is very cost-effective, and operating costs are extremely low
- The cast-iron machine frame features a modern C-frame with T-base, precisionmachined surfaces and has undergone multiple thermal stress-relief processes
- Rigid linear guides and precision preloaded ballscrews on all axes ensure permanent mechanical precision
- The IPC-based 4-axis control system is fine-tuned to manufacturing process requirements, plus, it is user-oriented and reliable
- The two-directional wire guide system is the heart of the machine, featuring perfect wire feed even with workpieces with large tapers or heights
- Easy maintenance due to central lubrication system
- Handheld control for quick machine setup

NeoSpark T cutting function for aluminum

• Due to its chemical properties, aluminum can generate very hard oxide particles at high temperatures, which may adhere to the molybdenum wire during machining. This results in a contact between wire and workpiece and increases the risk of a wire break. This option improves the aluminum cutting process and results in a significantly longer wire life.

STANDARD EQUIPMENT

IPC-based control system Electronic manual control unit Aluminum cutting function USB port Ethernet Standard wire guides Dielectric tank with pump Work lamp Leveling plates and jacks Central lubrication Operating tools Operator instructions