



SKU : 180562

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

TECHNICAL SPECS

WORKING AREA

| | |
|--|--------------------------|
| Table dimensions | 680 mm x 480 mm |
| Workpiece, length x width x thickness (max.) | 1000 mm |
| Workpiece weight (max.) | 500 kg |
| Travel X-axis | 400 mm |
| Travel Y-axis | 320 mm |
| Travel U / V-axis | ±35 mm |
| Z-axis travel | 300 mm |
| Rapid feed X-/ Y-axis | 12 m/min |
| Cutting angle (with guide) | ± 12° / 80 mm |
| Cutting capacity (max.) | 300 mm ² /min |
| Generator | 10 A |

CNC CONTROL

| | |
|------------------------|-----------|
| Display size / type | 15" / LED |
| Controlled axis | 4 |
| Input increment (min.) | 0.001 mm |

DIELECTRIC SYSTEM

| | |
|---------------------------|-------|
| Dielectric, tank capacity | 100 l |
|---------------------------|-------|

FEED

| | |
|-----------------------|-------------|
| Rapid feed X / Y axis | 1000 mm/min |
|-----------------------|-------------|

ACCURACIES

| | |
|----------------------------------|-----------|
| Positioning accuracy X- / Y-axis | ≤0.01 mm |
| Positioning accuracy U/V axis | ≤0.025 mm |
| Repeatability X- / Y-axis | ≤0.005 mm |
| Repeatability U / V axis | ≤0.01 mm |
| Best surface roughness | 0.8 μm Ra |

DRIVE CAPACITY

| | |
|-------------------------|---------------------------|
| Motor rating X / Y axis | 0.75 kW |
| Motor rating U / V axis | 0.2 kW |
| Motor rating Z-axis | 0.2 kW |
| Total power consumption | 2.3 kVA |
| Supply voltage | 380 (±10%) / 50 or 60Hz V |

MEASURES AND WEIGHTS

| | |
|--|------------------------|
| Overall dimensions (length x width x height) | 1.68 m x 1.2 m x 2.3 m |
| Weight | 2200 kg |



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, precision-machined 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
- Aluminium cutting function
- USB port
- Ethernet port
- Standard wire guides
- Dielectric tank with pump
- Work lamp
- Leveling plates and jacks
- Central lubrication
- Operating tools
- Operator instructions