



NeoSpark B 500 is shown



See this machine
in action on
YouTube



- The NeoSpark CNC Electric Discharge Machine delivers excellent cutting performance, is cost-effective, and operating cost is extremely low
- The cast-iron machine frame features a modern C-frame with T-base, multiple reinforcing ribs, precision-machined surfaces and thermal stress-relief
- Rigid linear guides and precision preloaded ballscrews on all axes ensure permanent mechanical precision
- The IPC-based control system with servo drives is fine-tuned to the manufacturing process requirements, plus, it is user-oriented and reliable
- 2-step filtration system in the dielectric tank ensures uninterrupted operation and high machining quality



The NeoSpark allows production of delicate contours with superior surface quality



In additive production (3D-Printing) the produced complex parts are attached to a metal plate, where the metal plate subsequently will have to be separated from the component (Neospark 500 B Continental Engineering Services)

High-Speed Wire EDM Cutting Technology for 3D Metal Printing

- Compared to mechanical divisions, there is virtually no pressure on the component
- Delicate structures can be machined without the risk of deformation or microcracking in the cut surface
- Perfect balance between cutting accuracy and high cutting speed
- Significantly more cost-efficient than conventional wire EDM
- Long wire life ensures high productivity and minimal downtimes

Standard Equipment

erosion wire 0.18 mm, Dielectricum 10 kg, electronic manual control unit, constant wire tensioner, Draht-einrichtungshilfe, generator, USB port, Ethernet port, standard wire guides, dielectric tank with pump, work lamp, warning beacon, AC power stabler, leveling plates and jacks, central lubrication, operating tools, operator manual

Specifications

		NeoSpark B 300	NeoSpark B 500
Working area			
Table dimensions	mm	620x440	820x535
Workpiece, length x width x thickness (max.)	mm	960x550x300	1.190x650x400
Workpiece weight (max.)	kg	500	800
X-axis travel	mm	400	600
Y axis travel	mm	300	400
Travel U / V-axis	mm	70 / 70	70 / 70
Z-axis travel	mm	250	350
Cutting angle (with guide)		± 10° / 80 mm	± 10° / 80 mm
Cutting capacity (max.)	mm ² /min	200	200
Generator	A	10	10
CNC control			
Display size / type		15" / LED	15" / LED
Controlled axis		4	4
Input increment (min.)	mm	0,001	0,001
Dielectric system			
Dielectric, tank capacity	l	180	180
Feed			
Rapid feed X / Y axis	mm/min	1.000	1.000
Accuracies			
Positioning accuracy X / Y axis	mm	0,01	0,01
Positioning accuracy U/V axis	mm	0,02	0,02
Repeatability X / Y axis	mm	0,005	0,005
Repeatability U / V axis	mm	0,01	0,01
Best surface roughness	µm Ra	0,8	0,8
Drive capacity			
Motor rating X / Y axis	kW	0,15	0,2
Motor rating U / V axis	kW	0,02	0,02
Motor rating Z-axis	kW	0,02	0,02
Total power consumption	kVA	2	2
Measures and weights			
Overall dimensions (length x width x height)	m	2,04x1,6x1,83	2,4x1,89x2,06
Weight	kg	2.000	2.600
Part No.		180558	180559