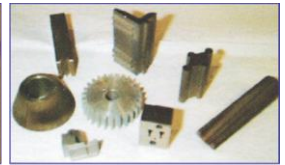
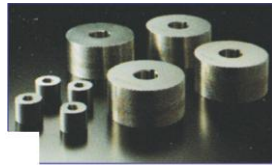


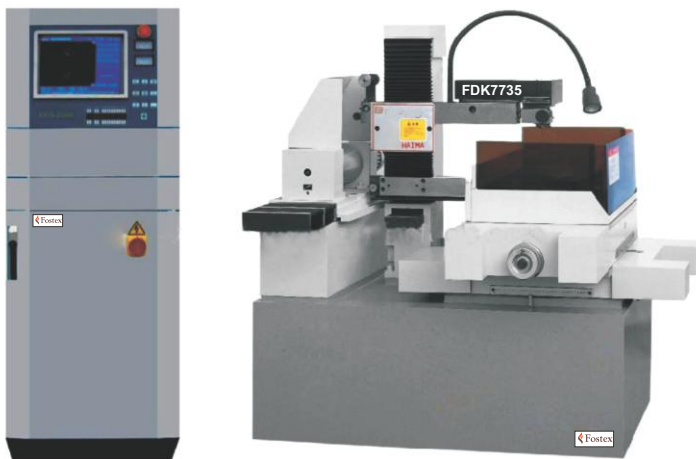
Berlin Machine Corporation



CNC Wire Cut Machine - FDK Series

Single Cut


- Lowest Running Cost
- Reusable Molybdenum wire
- Multi pass facility (optional)
- It has options of High speed and Medium speed
- High accuracy and fine surface quality can be achieved in higher speeds
- Coolant oil is used as dielectric / Low cost soap gel can be used as cutting oil
- Maximum cutting speed : 180mm²/min
- Low cost
- Low Maintenance
- Function of taper processing
- Functions of interpolation of straight line and circular arc
- Automatic centre find, edge find operation and pulse at wire break
- Function of memorizing when power off and auto-stop after processing
- Auto lock after giving run command
- Good rigidity, running placidly, strong function, convenient and reliable operation

CNC Wire Cut Machine - FDK Series

Multi Cut
CNC Pulse Generator

- Display of cutting rate
- Display of machining time
- Single block execution
- Display of operator help and error message
- Operating Platform : Window XP
- Gap Short Recovery
- Color CRT Display

Machine Tools

- Ball screw for X,Y, Table movement
- Fine Pitch screw for U,V movement
- Stepper motor for X,Y, U,V axis movement
- Flexible job stand for job mounting
- Variable speed AC motor for wire drum assembly
- Simultaneously controlled X,Y, U,V

Model	FDK7720-S FDK7720-M	FDK7725-S FDK7725-M	FDK7735-S FDK7735-M	FDK7740-S FDK7740-M	FDK7745-S FDK7745-M	FDK7740J-S FDK7740J-M
Table size (mm)	490*380	580*400	700*440	780*540	780*540	1000*540
Table travel (X×Y) (mm)	250*200	320*250	450*350	500*400	550*450	630*400
Max.Z axis travel (mm)	250	350	450	500	550	500
Max. workpiece weight (kg)	200	300	400	500	500	550
Max. cutting angle (Optional)	±3°	±3°	±3°, (15°, 30°)	±3°, (15°, 30°)	±3°, (15°, 30°)	±3°, (15°, 30°)
Positional accuracy (mm)	0.015/300					
Repeatability (mm)	0.01					
Wire moving speed (m/s)	11.5					
Cutting speed (mm ² /min)	Standard:120-140, max. cutting speed: 160-180					
Power	Single phase, 220V/50Hz / Three phase, 415V/50Hz, (2.0kw)					
Best Finish	Single Cutting ≤ 2.5					
(Ra)	Multi Cutting ≤ 1.5					
Wire Diameter (mm)	(Ø 0.12 - 0.25)					
Dimension L*W*H (mm)	1200*900*1300	1300*1200*1400	1300*1200*1400	1600*1300*1500	1600*1300*1500	1700*1300*1500
Net weight (kg)	800	900	1200	1350	1350	1400

Model	FDK7750-S FDK7750-M	FDK7750J-S FDK7750J-M	FDK7763-S FDK7763-M	FDK7763J-S FDK7763J-M	FDK7780-S FDK7780-M	FDK7780J-S FDK7780J-M
Working Table size (mm)	1000*650	1140*650	1140*750	1350*750	1350*980	1650*990
Stroke (X×Y) (mm)	630*500	800*500	800*630	1000*630	1000*800	1200*800
Max.Z axis travel (mm)	600	600	600	600	800	800
Max. workpiece weight (kg)	800	1000	1600	2000	2500	3000
Max. cutting angle (Optional)	±3°, (15°, 30°)	±3°, (15°, 30°)	±3°, (15°, 30°)	±3°, (15°, 30°)	±3°, (15°, 30°)	±3°, (15°, 30°)
Positional accuracy (mm)	0.015/300					
Repeatability (mm)	0.01					
Wire moving speed (m/s)	11.5					
Cutting speed (mm ² /min)	Standard:120-140, max. cutting speed: 160-180					
Power	Single phase, 220V/50Hz / Three phase, 415V/50Hz (2.0kw)					
Best Finish	Single Cutting ≤ 2.5					
(Ra)	Multi Cutting ≤ 1.5					
Wire Diameter (mm)	(Ø 0.12 - 0.25)					
Dimension L*W*H (mm)	1800*1600*1700	1800*1600*1700	2100*1800*1800	2100*1800*1800	2600*2400*2000	2600*2400*2000
Net weight (kg)	2100	2300	3000	3300	4000	4500

Model	FDK77100-S FDK77100-M	FDK77100J-S FDK77100J-M	FDK77120J-S FDK77120J-M	FDK77150-S FDK77150-M	FDK77160-S FDK77160-M	FDK77160J-S FDK77160J-M
Working Table size (mm)	1650*1150	1900*1150	2000*1300	2500*1600	2600*1780	2960*1780
Stroke (X×Y) (mm)	1200*1000	1400*1000	1600*1200	1800*1500	2200*1600	2500*1600
Max.Z axis travel (mm)	800	800	1000	1200	1200	1200
Max. workpiece weight (kg)	4000	4000	5000	6000	10000	10000
Max. cutting angle (Optional)	±3°, (15°, 30°)	±3°, (15°, 30°)	±3°, (15°, 30°)	±3°, (15°, 30°)	±3°, (15°, 30°)	±3°, (15°, 30°)
Positional accuracy (mm)	0.015/300					
Repeatability (mm)	0.01					
Wire moving speed (m/s)	11.5					
Cutting speed (mm ² /min)	Standard:120-140, max. cutting speed: 160-180					
Power	Single phase, 220V/50Hz / Three phase, 415V/50Hz. (2.0kw)					
Best Finish	Single Cutting ≤ 2.5					
(Ra)	Multi Cutting ≤ 1.5					
Wire Diameter (mm)	(Ø 0.12 - 0.25)					
Dimension L*W*H (mm)	3000*2800*2500	3000*2800*2500	3200*3000*2600	4400*4400*2800	5300*4800*3000	5800*4800*3000
Net weight (kg)	5200	5800	8500	11000	14000	14500

Standard Accessories

- PC with Windows 7 / XP
- Molly Wire - 1 Spool
- Gel- 2 kg (1 Box)
- Coolant System
- Ball Screw in X, Y Axis

- Wire Tightening Pulley
- Guide Wheel Pulley 5-Nos
- Steel Cover
- Tool Box
- Wire Vertical Setting Block,
- DRO - 2 Axis (X & Y)

Optional Accessories

- LM guide for X,Y axis
- Taper attachment for 15° & 30°
- High Pressure Coolant Tank
- Lifting Motor for Z-Axis

CNC Wire Cut Machine - FDK M+ Series

FEATURE:-

- Robust frame with "C" mast.
- Four axes independent (X/Y/U/V) work
- Taiwan LM guide & ball screw



Model	FDK7732-M+	FDK7740-M+
Table Size(mm)	440x620	510x730
Table travel(X/Y) (mm)	320x400	400x500
Max. cut thickness (mm)	350	400
Travel size (U/V) (mm)	(Normal) : 24x24 (Large taper) : D-60x60 E- 130x130 T- 240x240	
Molybdenum wire Dia.(mm)	(Molybdenum wire) ϕ 0.10 - 0.30	
Wire Speed (m/Sec)	12,9,7,5,2	
Max. cutting angle	$\pm 3^\circ/100\text{mm}$ (15° & 30° is Optional)	
Positional accuracy (mm)	0.010/300	
Cutting speed (mm^2/min)	Standard:120-140, max. cutting speed: 160-180	
Process roughness(Ra.um)	Multi-cut : $Ra \leq 1.0$ & Single cut: $Ra \leq 2.0$	
Driving motor	Stepper motor /AC servo motor* (Optional)	
Guide screw and track	Precision ball screw/Linear guide way	
Tension system	Single stage spring tensioned mechanical	
Power supply	Single phase, 220V/50Hz / Three phase, 415V/50Hz, (2.5kw)	
Max. workpiece weight (kg)	450	600
Weight (kg)	1500	1700
Dimension (mm)	1700x1300x1900	1900x1450x1900

STANDARD ACCESSORIES:-

- High pressure coolant tank
- DRO (X & Y Axis)
- Ceramic nozzle
- Auto lubrication pump
- LM Guide for X & Y Axis
- Steel Cover
- Guide Wheel Pulley 5- Nos
- Tool Box
- Wire tightening pulley

OPTIONAL ACCESSORIES:-

- Guider (Z-axis)
- Diamond Nozzle
- Taper Attachment for 15° & 30°
- Lifting Motor for Z-Axis

High Speed CNC Wire Cut - FZC SERIES

FEATURE:-

- Robust frame with "C" mast
With height adjustable diamond guider.
- Four axes independent (X/Y/U/V) work.
- Taiwan LM guide & ball screw.
- Special Tensioning mechanism for Wire tightening.



TYPE	FZC7732	FZC7740	FZC7750	FZC7763
Table size (mm)	440×620	510×730	630×880	850X1200
Table travel(X/Y) (mm)	320×400	400×500	500×630	630X800
Max.cut thickness (mm)	300	300	400	400
Travel size(U/V) (mm)	(Normal):24×24 (Large taper):D-60×60 E-130×130 T-240×240			
Wire Dia. (mm)	(Molybdenum wire) φ0.10 ~ 0.30			
Wire speed (m/sec)	12,9,7,5,2			
Cutting speed (mm ² /min)	Standard:120-140, max. cutting speed: 160-180			
Max.cutting angle	±3°/100mm (15° & 30° is optional)			
Process accuracy (mm)	(Multi-cut): 10×10×30(Square)≤0.006; (Single cut)≤0.012 (Multi-cut)(Octagon)≤0.009; (Straightness)≤0.006/50mm			
Roughness(Ra.μm)	(Multi-cut):Ra≤1.0 (Micro-pulse power Ra≤0.8) (Single cut):Ra≤2.0			
Driving motor	Stepper motor / AC servo motor*(Optional)			
Guide screw and track	Precision ball screw/Linear guide way			
Tension system	three stage(0/1/2)tension adjustable			
Power supply	415V/50Hz, 2.5kw			
Max.workpiece weight (kg)	450	600	1000	1200
Weight (kg)	1500	1700	2600	3000
Dimension (mm)	1700×1300×1900	1900×1450×1900	2050×1850×2000	2250X2020X2000

STANDARD ACCESSORIES –

- High Pressure coolant tank
- DRO (X & Y Axis)
- Ceramic nozzle
- Lifting motor for Z-Axis
- Guider (Z axis)
- Steel Cover
- Tool Box
- LM guide for X & Y axis
- Wire tighten pulley

Optional Accessories

- Taper attachment for 15° & 30°
- Diamond Nozzle

CNC Wire Cut - FZT SERIES

FEATURE :-

- Robust frame with 'C' mast.
- Long travel rail installed in the bottom, Which improves the stability for heavy product.
- With height adjustable diamond guider.
- Four axes independent (X/Y/U/V) work, with Taiwan linear and ball screw.
- Special Tensioning mechanism for molybdenum wire, keep stable cutting.
- Stepper motor is standard / Servo motor is optional.
- Tolerance can be mentioned in ± 0.006 mm, Roughness Ra 0.8
- Full enclosed cover, Similar to European machine.
- New generation control cabinet, High efficient.



Stepper Control



Servo Control

Model	FZT-320BJ/SF	FZT-400BJ/SF	FZT-500BJ/SF	FZT-630BJ/SF
Table Size(mm)	700x500	820x600	1000x700	1200x800
Table travel(X/Y) (mm)	400x320	500x400	630x500	800x630
Max. cut thickness (mm)	300	300	400	400
Travel size (U/V) (mm)	(Normal) : 24x24 (Large taper) : D-60x60 E- 130x130 T- 240x240			
Molybdenum wire Dia.(mm)	(Molybdenum wire) ϕ 0.10 - 0.22			
Cutting speed (mm ² /min)	Standard:120-140, max. cutting speed: 160-180			
Wire Speed (m/Sec)	12,9,7,5,2			
Max. cutting angle	$\pm 3^\circ/100\text{mm}$			
Process accuracy (mm)	(Multi-cut): 10x10x30(Square) ≤ 0.006 ; (one time out) ≤ 0.012 (Multi-cut): (Octagon) ≤ 0.009 ; (Straightness) $\leq 0.006/50\text{mm}$			
Process roughness(Ra.um)	(Multi-cut): Ra ≤ 0.9 (Micro-pulsepower Ra ≤ 0.8) (Singe-cut): Ra ≤ 1.9			
Driving motor	Stepper motor /AC servo motor*(Optional)			
Guide screw and track	Precision ball screw/Linear guide way			
Tension system	three stage (0/1/2) tension adjustable			
Power supply	415V/50Hz, 2.5 Kw			
Max. workpiece weight (kg)	450	600	1000	1200
Weight (kg)	1500	1700	2600	3200
Dimension (mm)	1750x1300x2000	1900x1450x2000	2050x1850x2100	2250x2050x2100

Standard Accessories :-

- PC with Windows 7/xp
- Ball Screw in X & Y Axis
- BJ-Stepper Motor
- SF-Servo Motor
- LM Guide for all Models
- High Pressure Coolant Tank With Double Pump
- Ceramic Nozzle
- Lifting Motor for Z-Axis
- Guider for Z-Axis
- 2-Axis DRO for BJ Series
- Guide & Wire
- Guide Wheel Pulley 5-Nos
- Tool Box.

CNC Abrasive Wire Cut Machine - FQT Series

It is widely used for cutting graphite electrodes, epoxy plate, hard alloy, marble, jade, optical glass, ceramics, ferrite, semiconductor materials, carbonized silicon and other non-conductive material.

FEATURES :-

- Integrated programming and control software
- Graphic tracking
- Arbitrary angle rotation
- Symmetric machining
- Wire broken protection
- Power failure protection
- Automatic power off after finishing job.
- USB port for inputting dxf drawing.
- Forward and reverse processing
- Analog Processing



Model	Unit	FQT-2532	FQT-3240
X travel	mm	250	320
Y travel	mm	320	400
working table	mm	580x400	710x470
Max. load on table	kg	250	300
Max. cutting thickness	mm	250	400
Abrasive wire Dia.	mm	ø 0.18-0.35	
Movement for hand wheel per cycle	mm	1	1
Pulse equivalency	mm	0.001	0.001
Roughness	Ra	Ra 0.8~2.0	Ra 0.8~2.0
XY motor		Stepper motor	Stepper motor
Max. Cutting speed	mm /m /in	100	100
Power	KVA	2.0 AC 415V/50Hz, 3Phase	
Weight	Kg	1000	1000
Machine Dimension	mm	1450x1000x1600	1600x1250x1750
Control cabinet Dimension	mm	750x680x1650	
Software		HL/ HF / Autocut Software	
Control Cabinet		Vertical	

Standard Accessories

- PC with Windows 7 / XP
- Abrasive Wire
- Pneumatic Wire Tighten Device
- Ball Screw in X, Y Axis
- Tool Box

EDM DRILLING MACHINE

FEATURES :-

- Drilling diameter from 0.3mm to 3mm. (Optional Max. Φ 6.0mm)
- The maximum depth ratio could be 300:1.
- Blind holes can also be drilled, Precision (hole straightness) is less than 0.04 mm.
- Can drill on oblique and curved surface directly.
- Fast processing speed and low consumption.
- Can use water as coolant, low cost and no pollution.



TYPE	FDD703.30	FDD703.40	FDD703.50
Working Table size (mm)	360×480	540×780	650×1000
Stroke X-Y(mm)	300×400	400×500	500×630
Electrode Diameter (mm)	Φ 0.3- Φ 3.0	Φ 0.3- Φ 3.0	Φ 0.3- Φ 3.0
Spindle Stroke W-Axis (mm)	300	400	600
Working Stroke Z-Axis (mm)	300	300	500
Max. Adjusting Speed of Spindle (mm)	200	200	200
Turn head (C axis) Speed (mm/min)	20-120	20-120	20-120
Distance between working Table & guider (mm)	300	350	500
Power	1 ϕ 220/3 ϕ 415V/50Hz/4.0kw	1 ϕ 220/3 ϕ 415V/50Hz/4.0kw	1 ϕ 220/3 ϕ 415V/50Hz/4.0kw
Max. Working Current (A)	30	30	30
Capacity of Working Fluid (L)	25	25	25
Max. Pressure of Working Fluid (MPA)	7	7	7
Dimension (LxWxH) mm	1060×950×1700	1600×1300×1800	1950×1500×1600
Weight (kg)	600	1300	1700

STANDARD ACCESSORIES

- 3-Axis DRO X,Y & Z axis
- Coolant System
- Electrode one Set
- Guide 2 Nos
- Seal
- Drill Chuck 1-Nos

OPTIONAL ACCESSORIES

- Guide-Additional
- Seal-Additional
- Electrode-Additional
- Drill Chuck-Additional

ZNC Electric Spark Discharge Machine

FEATURES :-

- NC controlled Z axis feed precise.
- Compact design for small part machining
- Rigid machine base
- Linear scales in all axes to ensure constant precision
- Imperial separate dielectric reservoir stored
- Low-maintenance and high efficiency
- DC servo-drive for precise control and system stability
- Anti-carbon automatically detection circuit.
- 10- stage program from rough to finish.
- Easy-to-learn operation.
- Direct parameter input and adjustment at the control panel
- Fire prevention and liquid level control automatically
- Different discharge system as optional
- Conform to the CE safety standard of power box



Model	FD7125	FD7130	FD7135	FD7145	FD7150	FD7170
Table Size(mm)	450x280	500x300	630x350	700x450	800x500	1200x700
Oil Groove Inside Size (mm)	800x500x280	850x550x320	900x550x380	1200x700x450	1350*800*530	1950x1050x600
X Axis Travel(mm)	250	300	350	450	500	700
Y Axis Travel(mm)	200	200	250	350	400	600
Z Axis Travel(mm)	200	200	200+200	250+250	250+250	300+300
Spindle travel (mm)	200	200	200+200	250+250	250+250	300+300
Max. distance from spindle to table (mm)	550	580	650	700	760	1000
Max.Electrode Weight(kg)	25	50	50	75	100	150
Max.Workpiece Weight (kg)	200	300	500	700	1000	2000
Power (kw)	5.5(EDM40A)	10.5(EDM80A)	10.5(EDM80A)	10.5(EDM80A)	10.5(EDM80A)	13.5(EDM100A)
Oil Tank size (mm)	1220x1000x450	1220x1000x450	1220x1000x450	1350x780x450	1450x900x450	2000x1250x580
Machine Dimension(mm)	1400x1200x2050	1400x1200x2100	1450x1200x2100	1560x1600x2160	1600x1700x2100	2100x2000x2600
Machine Weight(kg)	1050	1200	1350	1600	2100	3500

Control System

Model	ZNC-EDM40A	ZNC-EDM80A	ZNC-EDM100A
Max.Processing Current (A)	40	80	100
Max.Processing Speed (mm ³ /min)	200	500	800
Min.electrode consumption (%)	≤0.2%	≤0.2%	≤0.2%
Best surface roughness (μ)	ra<0.8(0.2 ra opt.)	ra<0.8(0.2 ra opt.)	ra<0.8(0.2 ra opt.)
Dimension (mm)	Built-in	800x540x1700	800x540x2000

STANDARD ACCESSORIES –

- Dial Gauge
- Micrometer Head
- Machine Lamp
- M. S. Leveling Pads
- Set of clamps with Nut & Studs
- Flexible Flushing Tube
- Plastic Flushing Tube
- 'V' Electrode Holder with C Clamp
- Shanks Set
- Float switch Assembly.
- Toolkit & Inst. Manual
- Orbital Head

OPTIONAL ACCESSORIES –

- Side sparking attachment
- Travel extension slide
- Electrode rotating attachment
- AC Servo motor
- LCD Monitor Optional

CNC Electric Spark Discharge Machine

FEATURES :-

- New generation FUZZY intelligent parameter editing function, adaptive discharge machining control.
- Multi-segment parameter setting and different segments can be switched over easily
Adaptive discharge machining control
- Quick speed lifting for spindle and the height can be adjusted
- Spindle can be controlled by fixed point, and the discharge gap can be detected
Oil level control, Fireproof control
- Anti-carbon deposition function
- Mirror surface processing
- Remote Control Unit (RCU)

Digital control Discharge Generator :-

- AUTO processing function unit
- Automatic positioning function unit
- High speed and high precision machining system.
- Automatic arc cleaning circuit unit
- Mirror processing circuit unit
- Hard material (such as Tungsten, Titanium) processing circuit unit.
- Fill the parameter in the process code easily
- Data restore in case of power failure
- warning with error message if abnormal operation.



CNC Electric Spark Discharge Machine

Specification	Unit	FCNC-430	FCNC-540	FCNC-650	FCNC-850	FCNC-1060	FCNC-1260
Work Tank Internal Size	mm	980x630x410	1370x720x450	1650x900x540	1650x1100x600	2000x1300x700	2000x1300x700
X,Y & Z Travel size	mm	400x300x300	500x400x300	600x400x350	800x500x400	1000x600x450	1200x600x450
Working table size	mm	600x400	850x450	900x550	1000x600	1250x800	1250x800
Distance from Electrode Plate to work table	mm	270-570	390-690	350-700	500-900	550-1000	550-1000
Max. Electrode weight	kg.	50	150	150	200	300	300
Max. Workpiece weight	kg.	1200	1800	2000	3000	3500	3500
Oil Tank Capacity	Ltr.	470	800	1000	750x2	900x2	900x2
Controller Use		FCNC-30A	FCNC-60A	FCNC-60A	FCNC-60A	FCNC-60A	FCNC-60A
Machine Power	kw.	2.5	2.5	2.5	2.5	2.5	2.5
Total Power	kw.	7.5	12.5	12.5	12.5	12.5	12.5
Dimension (mm)	(L x W x H)	1860x2000x2500	1890x2160x2500	2000x2340x2530	2320x2540x2600	2920x2860x2720	3180x2920x2850
Overall weight	kg.	2000	2500	4000	4500	5500	5500

Electric Control Cabinet

Specification	Unit	FCNC-30A	FCNC-60A
Max. Processing Current	A	30/60	
Max. Processing	mm ³ /min	300	300
Optimum Roughness	μm	0.1	0.1
Min. Electrode Consumption		≤0.1%	≤0.1%
Controller power	kw.	5.0	10.0

Standard Accessories :-

- 15" LCD Screen
- Auto Fire Extinguisher
- Halogen Work Lamp
- Clamping
- Leveling Pad
- Flushing Nozzle
- Patented Electrode Holder
- Paper Filter
- Drill Chuck
- Tool Box
- Remote Control Unit (RCU)

Optional Accessories :-

- 3R/ EROWA ATC 4/6T
- Measuring Probe
- Dielectric Cooler
- Permanent Magnetic Table
- EZ-SPARK for Super Hard Work Piece

About us

“**Berlin Machine Corporation**”, we are based in Pune, Maharashtra, India, established in **2008**, are a widely recognized engineering house engaged in **Exporting, Importing, Wholesaling, and Trading** of a wide range of **Industrial Machine and Accessories** that are widely used in diverse industrial applications and processes. Our range of machines includes EDM machines, Screw Compressor, Vertical turret milling Machine, Radial drilling Machine, surface grinders, All geared high precision lathe Machine, Shearing Machine, Bending Machine and our range of accessories. All these conform to international quality standards and widely acknowledged for their sturdy design, robust construction, and durable finish standards. We deal with our own brand “**Fostex**” under the dynamic leadership of our mentor, **Mr. Sunil Dubey**, we have earned a distinctive recognition all across the India. His rich business acumen with a clear vision and exceptional management skills have helped us to win the trust of many leading companies and brands in a very limited time span.

Our Clients

