

群基精密放電加工機

模具加工操作更快更簡單

视觉识别 13602606340



群基精密
放電加工機

▶ LEAD EDM



群基精密工業（蘇州）有限公司
CREATOR INDUSTRY (SUZHOU) CO., LTD.

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CREATOR INDUSTRY (SUZHOU) CO., LTD.



公司简介

COMPANY PROFILE

工厂与办公大楼

群基精密工业股份有限公司于 1986 年台湾省台中市成立，主营设计、生产放电加工机，加工中心及塑胶射出成型机，专注对应客户不同需求提供各式专业放电加工设备，CNC 相关设备的开发设计，另外针对客户特殊需求设计订制放电加工设备及轮胎模具专用放电加工机。

1997 年于江苏省苏州市高新区金山路 92 号成立苏州群伦精密机电工业有限公司；厂房占地面积 3790 平方米，建筑面积 2000 平方米，注册资本额 69.8 万美金。

2003 年于江苏省苏州市吴中区胥口镇成立群基精密工业（苏州）有限公司；注册资本额 518 万美金。

2005 年于江苏省苏州市吴中区胥口镇时进路 499 号扩建群基精密工业（苏州）有限公司新厂，厂房 2007 年 10 月落成完工，占地面积 24680 平方米，建筑物面积 19000 平方米。为了与出口产品统一商标，2010 年更换公司商标为 Lead 新商标，专注研发生产高精密机加工设备与自动化机械。

In 1986 Creator Precision Industry Co., Ltd. was established in Taichung, Taiwan. It is mainly engaged in the design and production of electrical discharge machining machines, machining centers and plastic injection molding machines. It focuses on the development and design of various specialized EDM machine and CNC related equipment corresponding to the different needs of customers. In addition, it designs and orders deep hole EDM machines and tire molds EDM machines according to the special needs of customers.

In 1997, Suzhou Lead Machinery Industry Co., Ltd. was established at No. 92, Jinshan Road, High tech Zone, Suzhou City, Jiangsu Province; The factory covers an area of 3790 square meters, with a building area of 2000 square meters and a registered capital of 698000 US dollars.

In 2003, Creator Industry (Suzhou) Co., Ltd. was established in Xukou Town, Wuzhong District, Suzhou City, Jiangsu Province; The registered capital is USD 5.18 million.

In 2005, the new factory of Creator Industry (Suzhou) Co., Ltd. was expanded at No. 499, Shijin Road, Xukou Town, Wuzhong District, Suzhou City, Jiangsu Province. The factory was completed in October 2007, covering an area of 24680 square meters and a building area of 19000 square meters. In 2010, for keeping the same trademark as export products, our company changed the trademark to the new one of Lead, focusing on the development and production of high-precision processing equipment and automatic machinery.

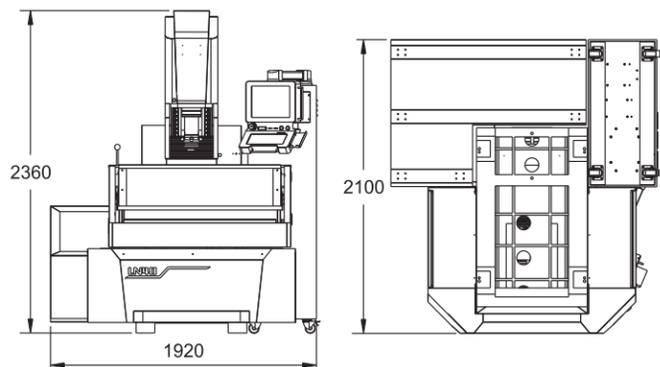
LN 镜面放电加工机 C型结构

Type C structure of LN mirror EDM machine



LN-40

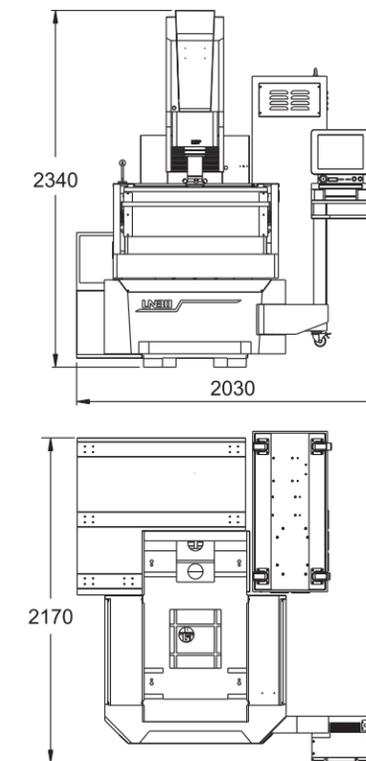
占地面积
Floor Area diagram



LN-40 (选配电极库)

LN-30

占地面积
Floor Area diagram



技术参数 Technical parameter

机型/Model	单位	LN-30	LN-40
机械结构/Mechanical structure		C型	C型
X轴行程/X axis travel	mm	330	400 (选配450)
Y轴行程/Y axis travel	mm	210	300
Z轴行程/Z axis travel	mm	300	300
工作台尺寸/Work table size	mm	600*400	700*400
加工头板距工作面最高/最低/Distance between T type grid plate and work table(Max./Min.)	mm	565/265	535/235
油槽内径尺寸/Sink size	mm	820*610*384	1040*610*384
最大油箱容量/Sink volume(Max.)	Litre	330	400
最大电极重量/Electrode weight(Max.)	kg	50	50
最大工件重量/Workpiece weight(Max.)	kg	300	400
机器尺寸/Machine size	mm	2030*2170*2340	1920*2100*2360
机器总重/Machine weight	kg	1600	2000
油槽型式/Sink type		上下拉 (手动)	上下拉 (手动)
最大加工电流/Processing current(Max.)	A	30A	30A/ (选配60A)
最细表面光洁度/Roughness(Best)	μm Ra.	≤0.07	≤0.07

*制造商可能升级改进修改设计规格, 不另行通知 Specifications are subject to change without notice

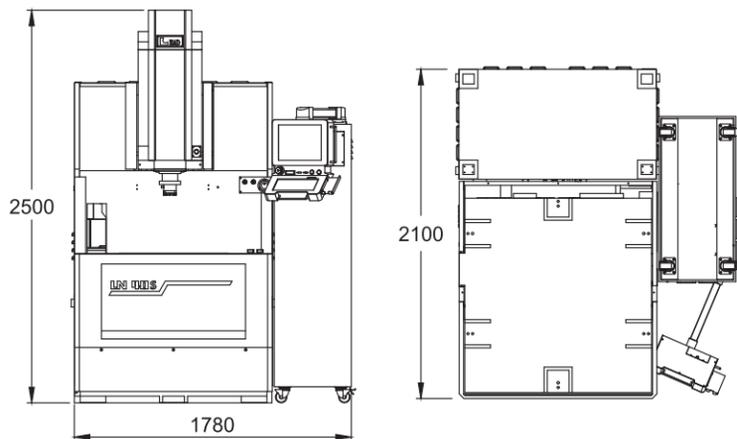
LN 镜面放电加工机 牛头式结构

LN mirror EDM machine with Tauren type structure



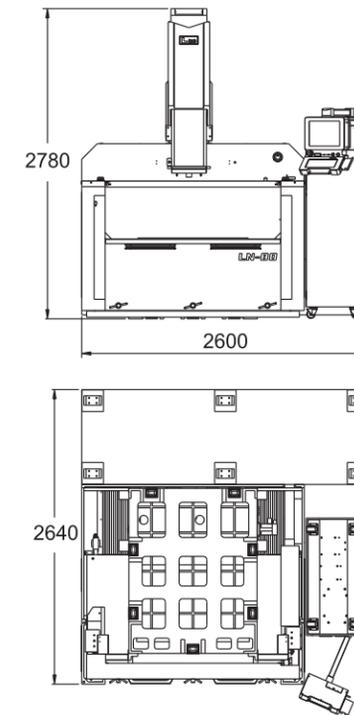
LN-40S

占地面积
Floor Area diagram



LN60/LN80/LN120

占地面积 (LN80)
Floor Area diagram



■ 技术参数 Technical parameter

机 型/Model	单 位	LN40S	LN60	LN80	LN120
机械结构/Mechanical structure		牛头式	牛头式	牛头式	牛头式
X轴行程/X axis travel	mm	400	600	800	1200
Y轴行程/Y axis travel	mm	300	400	500	500
Z轴行程/Z axis travel	mm	300	350	400	400
工作台尺寸/Work table size	mm	700*400	900*500	1000*600	1300*600
加工头板距工作台面最高/最低/Distance between T type grid plate and work table(Max./Min.)	mm	580/280	650/300	850/450	835/435
油槽内径尺寸/Sink size	mm	850*610*505	1340*830*495	1590*985*595	2000*940*595
最大油箱容量/Sink volume(Max.)	Litre	500	700	1000	2100
最大电极重量/Electrode weight(Max.)	kg	50	100	100	100
最大工件重量/Workpiece weight(Max.)	kg	400	1500	2000	4000
机器尺寸/Machine size	mm	1780*2100*2500	2200*2480*2600	2600*2640*2780	3160*3100*2800
机器总重/Machine weight	kg	3850	4150	5400	8000
最高液面高度到台面距离/The distance between oil level and work table(Max.)	mm	255	315	420	400
油槽型式/Sink type		自动升降	上下拉 (手动)	上下拉 (手动)	上下拉 (手动)
最大加工电流/Processing current(Max.)	A	30A/(选配60A)	60A	60A	60A
最细表面光洁度/Roughness(Best)	μm Ra.	≤0.07	≤0.1	≤0.1	≤0.1

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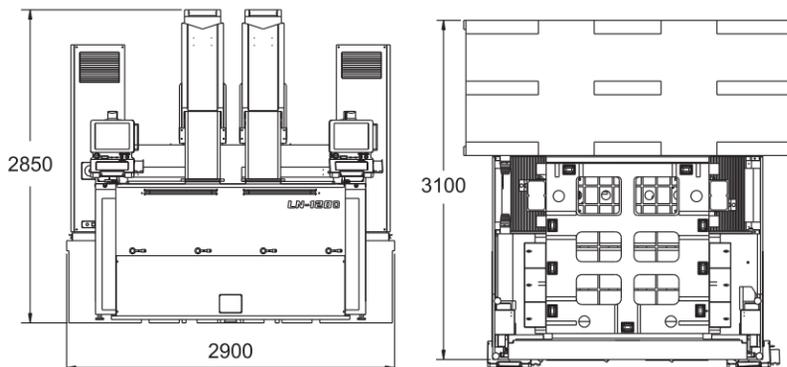
LN 镜面放电加工机 雙頭式結構

LN mirror EDM machine with Tauren type structure(2 processing spindles)



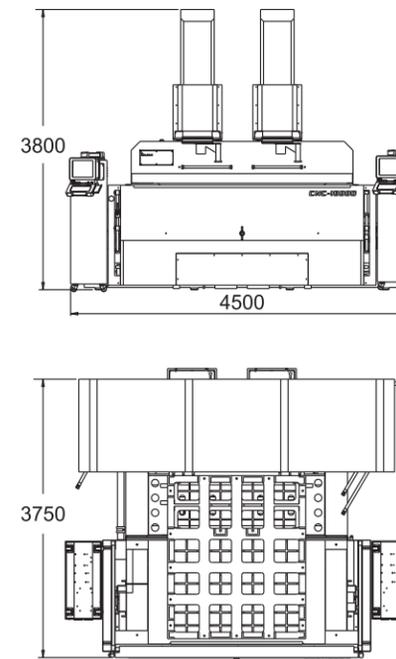
LN120D

占地面积
Floor Area diagram



LN160D/180D/230D/300D

占地面积 (LN160D)
Floor Area diagram



■ 技术参数 Technical parameter

机 型/Model	单 位	LN-120D	LN-160D	LN-180D	LN-230D	LN-300D
X轴行程/X axis travel	mm	700/700	1100/1100	1200/1200	1450/1450	2400/2400
Y轴行程/Y axis travel	mm	500	800/800	800/800	900/900	900/900
Z轴行程/Z axis travel	mm	400	500/500	600/600	600/600	600/600
工作台尺寸/Work table size	mm	1300*600	1700*1000	2000*1000	2500*1200	3200*1200
T型槽板距工作台面最高/最低/Distance between T type grid plate and work table(Max./Min.)	mm	835/435	1150/650	1200/600	1250/650	1300/700
油槽内径尺寸/Sink size	mm	2000*1000*520	2550*1500*650	3000*1500*650	3500*1800*650	4500*1800*650
最大油箱容量/Sink volume(Max.)	Litre	2100	2500	3585	5000	5520
最大电极重量/Electrode weight(Max.)	kg	80	100/(选配400)	100(选配400)	100(选配450)	100(选配450)
最大工件重量/Workpiece weight(Max.)	kg	4000	6000	6500	8000	15000
机器尺寸/Machine size	mm	2900*3100*2850	4500*3750*3800	4690*3880*3450	5400*4300*3450	5700*4450*3600
机器总重/Machine weight	kg	11000	12000	15000	17500	25500
最大加工电流/Processing current(Max.)	A	60A	60A	60A	60A	60A
最细表面光洁度/Roughness(Best)	µm Ra.	≤0.1	≤0.1	≤0.1	≤0.1	≤0.1

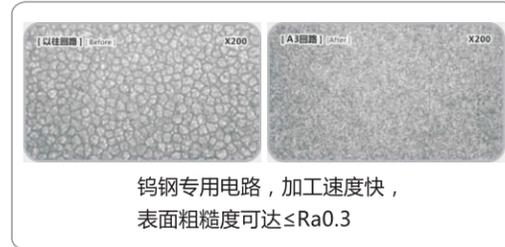
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LN 镜面放电加工机

LN Mirror EDM Machine

■ 电器特性 Electrical features

- 加工性能
 - (1) 镜面加工稳定，速度快，最适合批量生产加工
 - (2) 石墨专用加工电路，放电加工不积碳
 - (3) 采用特殊的电路设计，可使我们的机器在石墨加工方面实现高性能
 - (4) 钨钢专用电路，放电加工速度快，表面粗糙度可达Ra0.3以下
 - (5) 深孔、连接器...等各种电极，模具加工
 - 绝对式伺服驱动控制：电源启动，即开即用免归零，确保摇动或C轴放电异常断电的位置保证
 - 支持工业4.0通讯协议：I/O界面控制采用EtherCAT工业4.0通讯协议，对于IO，运动，放电等信号进行列表运算处理，大幅降低传输过程受噪声干扰影响，提高信号可靠性，正确性
 - 触控显示面板，支持USB和具备网络通信功能，可透过网线连接互联网进行远程协助调试及FTP档传输，可线上直接查看机器运行状态
 - 丰富自动化界面：具备远程指令传输，进行机器定位，加工，机器状态回传，可针对自动化加工方案，进行搭配
 - 采用工业控制主机，具有很好的信号处理及运行的稳定性
 - 具备G代码编辑功能，解决各式复杂加工路径需求
 - 控制器达到纳米级0.0001mm解析度
 - 支持C轴和刀库的全智能化无人加工（选配）
 - 支持远程诊断、监控和调试（选配）
-
- Processing performance
 - (1) With high stability and high speed in fine processing, our machine could achieve really high efficiency in volume production
 - (2) Special processing circuit for graphite, no carbon deposit during discharge machining
 - (3) With special circuit design that could make our machine achieved high performance on graphite processing
 - (4) Special circuit design for Tungsten steel improve the efficiency in processing and the surface finish quality can be achieved Ra 0.3
 - (5) Various kinds of electrode, mold processing ability.
 - Location by absolute encoder: we can operate this machine without return to zero. Ensure the location of processing when the power supply of the machine was cut off abnormally.
 - The industrial 4.0 Ethercat communication processing scheme is adopted to process IO, motion, discharge and other signals in series, greatly reducing the impact of noise interference on the transmission process, and improving the reliability and correctness of the signal.
 - Support the functions of touch panel, USB communication, and ethernet communication, it can connect to the Internet through the network cable for remote assistance debugging, and FTP file transmission, and can directly view the running status of the machine online
 - Rich automation interface: with remote command transmission, machine positioning, processing, machine status feedback, and matching for automatic processing scheme
 - Industrial control host is adopted, with good signal processing and operation stability
 - Support G code editing function to solve various complex processing path requirements
 - The positioning accuracy could reach nanometer(0.0001 mm)
 - Support the C axis and ATC (Option)
 - Support adjustment, diagnosis, and monitoring by remote control(Option)



優質配件更加便于操作

High-quality Accessories Are More Convenient To Operate

■ 标准配件（所有机器） Standard accessories (all machines)

- 自动灭火器
- LED工作灯
- 过滤器
- 磁性喷油座
- 三爪自定心夹头
- 通用夹具
- 工具箱与工具

- Automatic Fire Extinguisher
- LED work light
- Filter
- Magnetic fuel injection seat
- Three-jaw self-centering chuck
- Universal fixture
- Toolbox and tools



C 轴



自动换刀系统（4-6把刀）



自动换刀系统（12把刀）



冷却器



永久磁盘

■ 选配件 Options

- ATC自动换刀系统
- C轴
- 冷却器
- 永久磁盘
- EROWA 或3R夹具
- 稳压器

- ATC automatic tool change system
- C-axis
- Cooler
- Permanent disks
- EROWA or 3R fixture
- Voltage stabilizer

■ 技术参数 Technical parameter

机 型/Model	单 位	A3		
电器规格/Specification	A	30A	60A	60A(双头机*2)
输入电压/Input voltage	3ΦV	220、346、380、415	220、346、380、415	220、346、380、415
电源容量/Power capacity	KVA	8	14	16
加工电压/Processing voltage	V	90/100/120	90/100/120	90/100/120
高压选择/High processing voltage selection	V	300	300	300
最小放电时间/ON time(Min.)	μS	0.5	0.5	0.5
最小休止时间/OFF time(Min.)	μS	0.5	0.5	0.5
最大加工速度/Processing speed(Max.)	mm ³ /min	270(30A)	580(60A)	580(60A)
最细表面光洁度/Roughness(Best)	μmRa.	≤0.07	≤0.1	≤0.1
最小电极消耗比/Electrode consumption ratio(Min.)	%	0.1	0.1	0.1
最小定位分辨率/Positioning resolution(Min.)	μm	0.1	0.1	0.1
重量/Weight	kg	210	210	210
备注/Remark		(LN30、LN40、LN40S)	(LN60、LN80)	(LN120以上和双头机)

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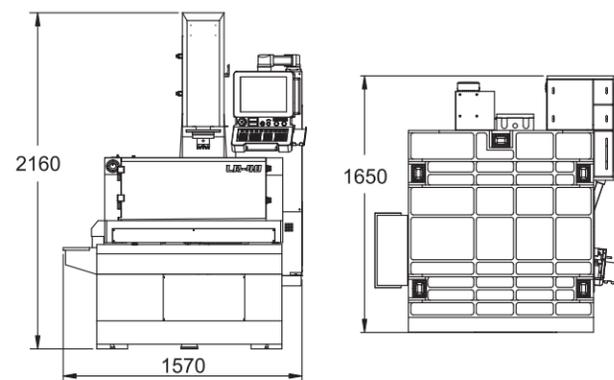
CNC 型放电加工機

CNC EDM Machine



LR40

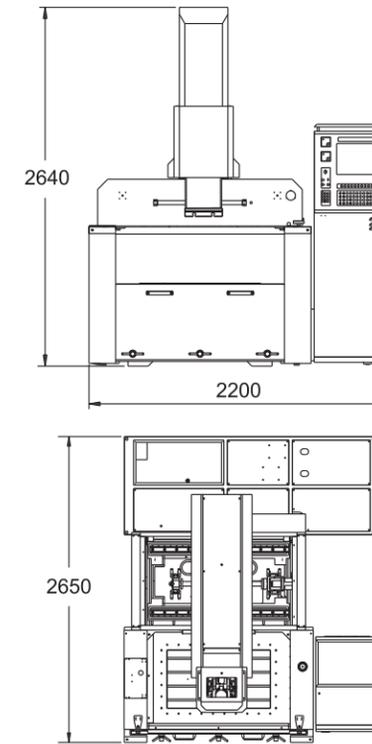
占地面积
Floor Area diagram



LR40 (选配上下拉门)

CNC640/850/1250

占地面积 (CNC640)
Floor Area diagram



技术参数 Technical parameter

机 型/Model	单 位	LR40	CNC640	CNC850	CNC1250
机械结构/Mechanical structure		C型	牛头式	牛头式	牛头式
X轴行程/X axis travel	mm	400	600	800	1200
Y轴行程/Y axis travel	mm	300	400	500	500
Z轴行程/Z axis travel	mm	200	350	400	400
机头行程/Spindle head travel	mm	240	—	—	—
工作台尺寸/Work table size	mm	650*400	900*500	1000*600	1300*600
加工头板距工作台面最高/最低/Distance between T type grid plate and work table(Max./Min.)	mm	625/195	700/350	850/450	835/435
油槽内径尺寸/Sink size	mm	1020*640*320	1340*830*495	1590*983*595	2000*940*595
最大油箱容量/Sink volume(Max.)	Litre	400	700	800(1000)	2100
最大电极重量/Electrode weight(Max.)	kg	75	100	100	100
最大工件重量/Workpiece weight(Max.)	kg	400	1500	2000	4000
机器尺寸/Machine size	mm	1570*1650*2160	2200*2650*2640	2650*2850*2780	3160*3100*2800
机器总重/Machine weight	kg	1950	4150	5400	8000
油槽型式/Sink type		左右开门/上下拉(手动)	上下拉(手动)	上下拉(手动)	上下拉(手动)
最大加工电流/Processing current(Max.)	A	30A	50A	50A	60A
最细表面光洁度/Roughness(Best)	µm Ra.	≤0.2	≤0.2	≤0.2	≤0.2

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CNC 型放电加工机

CNC EDM Machine

■ 操作界面 Operation interface

- 对话式中文/英文操作界面
- 图形式自动寻边模式界面
- 对话式输入界面，易学易操作
- 可选2D/3D轨道设置
- 系统IO诊断界面
- 放电路径的图形显示界面
- Dialogue Chinese/English operation interface
- Graphical white work edge search mode interface
- Dialogue-type input interface, easy to learn and operate
- Optional 2D/3D track settings
- System IO diagnosis interface
- Graphical display interface of discharge path

■ CNC 控制特性 CNC control characteristics

- 控制器采用工业级主板
- 15" TFT LCD 工业级显示器
- 对话式人机操作界面
- 自动参数程序编辑，自动创建参数加工深度
- 钨钢、超硬与特殊材料的加工电路（选配）
- 软件操作功能：全中文操作系统，简单明了，学习快速上手容易，同时还有操作提示功能，设计最贴心，并支持英文和西班牙文。49组工作坐标，支持寻边球功能，自动寻边功能，多种加工参数，断电坐标记忆，功能最齐全，适合各式简单/复杂/多模多穴/深孔... 各式各样模具加工
- The controller adopts industrial grade mainboard
- 15" TFT LCD industrial-grade display (LED Ken light plate, used when saving power)
- Dialogue-type man-machine operation interface
- Automatic parameter program editing, automatic creation of parameter processing depth
- Processing circuit of tungsten copper, superhard and special materials (optional)
- Software operation function: The all-Chinese operating system is simple and clear, easy to learn and use, and also has the operation prompt function. The design is the most considerate, and supports English and Spanish. 49 sets of working coordinates, supporting the edge finding ball function, automatic edge finding function, various processing parameters, power-off coordinate recording, the most complete functions, suitable for all kinds of simple/complex/multimode multi-cavity/deep hole... all kinds of mold processing.



■ 电控箱特性 Characteristics of electric control box

- 独立式模块电路设计，提升了电路维护便利性与稳定性
- 全数位式放电控制，FPGA超大型IC元件
- 高效能放电控制，最小化设计，可大幅提升放电加工效率
- 30A-250A加工电流
- 石墨专用电路：（CR6C）新增石墨专用加工电路，针对大面积、薄片加工，速度更快更稳定，并能有效避免加工积碳等问题。
- 电极、模具加工能力范围广泛：深孔、镜面、连接器、超硬合金、粉末冶金、石墨电极...，各式各样电极，模具加工能力。
- 超硬合金加工电路：（选配）
铜->钨钢：群基独家发明专利LC放电加工电路，有效控制电极损耗和加工效率，电极消耗最佳可控制在6%以下，速度更快更细，钨钢表面裂纹更小，抛光更轻松。



- Independent modular circuit design improves the convenience and stability of circuit protection
- Full-digital discharge pulse control, FPGA ultra-large IC components
- High-efficiency discharge pulse control, minimized design, can greatly improve the efficiency of discharge machining
- 30A-250A processing current
- Special circuit for graphite: (CR6C) The special processing circuit for graphite is added, aiming at the processing of large area and thin sheet, which is faster and more stable, and can effectively avoid the problems of carbon deposition during processing.
- Wide range of electrode and mold processing capabilities: Deep hole, mirror surface, connector, superhard alloy, powder metallurgy, graphite electrode, various kinds of electrode, mold processing ability.
- Superhard alloy processing circuit: (optional)
Copper -> tungsten steel: The patented LC discharge machining circuit invented by Creator can effectively control the electrode consumption and processing efficiency. The electrode consumption can be controlled below 6%, with faster and finer speed. The surface crack of tungsten steel is smaller, and polishing is easier.

■ 技术参数 Technical parameter

机 型/Model	单 位	CR6F	CR6C		CR6C		
电器规格/Electrical specification	A	30	50	75	*100	*150	*250
输入电压/Input voltage	3ØV	220.346 380.415	220.346 380.415	220.346 380.415	220.346 380.415	220.346 380.415	220.346 380.415
电源容量/Power capacity	KVA	5	7	10	15	20	30
加工电压/Processing voltage	V	100	100	100	100	150	250
高压选择/High voltage selection	V	210	140or250	140or250	140or250	140or250	140or250
最小放电时间/Minimum discharge time	µs	2	1	1	1	1	1
最小休止时间/Minimum rest time	µs	2	1	1	1	1	1
最大加工速度/Maximum processing speed	mm ³ /min	220	480	720	1050	1500	2500
最佳表面光洁度/Optimum surface finish	µmRa	0.3	0.2	0.2	0.2	0.2	0.2
最小电极消耗比/Minimum electrode consumption ratio	%	0.5	0.3	0.3	0.3	0.3	0.3
重量/weight	kg	210	210	248	360	490	700

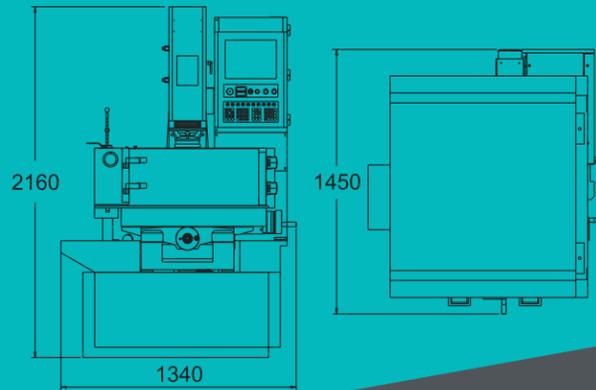
*制造商可能升级改进修改设计规格，不另行通知 Specifications are subject to change without notice

ZNC 型放电加工機

ZNC EDM Machine

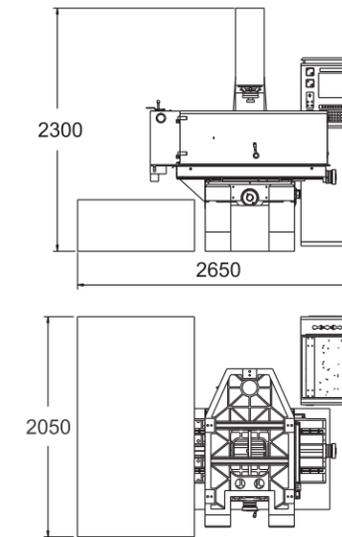
LD-35

占地面积
Floor Area diagram



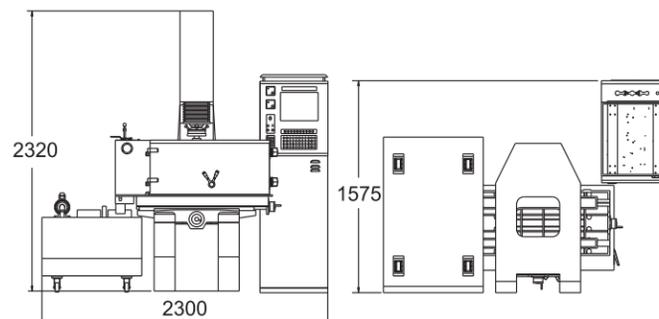
CJ560

占地面积
Floor Area diagram



CJ345

占地面积
Floor Area diagram



技术参数 Technical parameter

机型/Model	单位	CJ150	LD35	CJ345	CJ560
X轴行程/X axis travel	mm	200	350	450	600
Y轴行程/Y axis travel	mm	150	250	350	500
Z轴行程/Z axis travel	mm	160	200	200	220
机头行程/Spindle head travel	mm	—	170	240	260
工作台尺寸/Work table size	mm	350*150	600*320	700*400	900*500
油槽内径尺寸/Sink size	mm	624*316*217	840*550*345	1040*620*444	1455*875*505
最大油箱容量/Sink volume(Max.)	Litre	90	400	380	865
最大电极重量/Electrode weight(Max.)	kg	25	50	75	75
最大工件重量/Workpiece weight(Max.)	kg	100	500	1000	1500
机器尺寸/Machine size	mm	950*780*1910	1340*1450*2160	2300*1575*2320	2650*2050*2300
机器总重/Machine weight	kg	700	1060	1380	1950
加工头板距工作台面最高/最低/Distance between T type grid plate and work table(Max./Min.)	mm	362/202	535/160	675/215	775/325

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ZNC 控制器電櫃特性

Characteristics Of ZNC Controller Electric Cabinet

CR5C/CR5F:

- Pentium工业级控制器
- 15" TFT LCD显示器
- 对话式中文/英文操作界面
- Z轴自动靠边与重置归零功能
- 预设十种常用的加工参数记忆模组
- 拥有从粗加工到精细处理的十段深度参数
- 自动存储位置参数与机械归零, 不受断电影响
- 积碳预防系统
- Pentium industrial-grade controller
- 15-inch LCD computer display
- Talkative User Interface
- Z-axis automatic touching and set the coordinate of the position to zero function
- Reserve 10 commonly used processing parameters modules
- Automatically store location coordinates ,parameters and have a mechanical reset function, without being affected by a power failure
- Carbon deposit prevention system

CR5F 专有

- 适用于钢钨超硬材质专用的电箱
- 功能齐全, 品质稳定, 操作简便
- PCB板模组化, 易于维护
- With high efficiency in tungsten steel processing
- With many useful functions and easy to operate
- Modular PCB board, easy to maintain



■ 技术参数 Technical parameter

机 型/Model	单 位	CR5F	CR5C				
电器规格/Electrical specification	A	30	50	75	*100	*150	*250
输入电压/Input voltage	3ØV	220,346 380.415	220,346 380.415	220,346 380.415	220,346 380.415	220,346 380.415	220,346 380.415
电源容量/Power capacity	KVA	5	7	10	15	20	30
加工电压/Processing voltage	V	100	100	100	100	150	250
高压选择/High voltage selection	V	210	140or250	140or250	140or250	140or250	140or250
最小放电时间/Minimum discharge time	µs	2	1	1	1	1	1
最小休止时间/Minimum rest time	µs	2	1	1	1	1	1
最大加工速度/Maximum processing speed	mm ³ /min	220	480	720	1050	1500	2500
最佳表面光洁度/Optimum surface finish	µmRa	0.3	0.2	0.2	0.2	0.2	0.2
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企業榮譽證書

Enterprise Honorary Certificate

