

# MAGICK

## CATALOG 产品手册

山东麦吉克智能科技有限公司

SHANDONG MAGICK INTELLIGENT TECHNOLOGY CO., LTD

—— 以质量求生存，以服务求发展 ——  
Quality&Service



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# 企业文化

## COMPANY CULTURE

### 我们的价值观/VALUES:

思变、进取、责任、务实

Changing, Enterprising, Responsible, Pragmatic

### 我们的愿景/VISION:

用激光技术创新，助力行业进步，成就客户梦想。

Innovating with laser technology, empowering industries, fulfilling customer dreams.

### 我们的使命/MISSION:

深耕产品，持续创新，追求卓越品质；

以客户为中心，与客户共同成长，实现共赢；

提供基于激光技术的高效率提升服务方案，超越产品本身；

提供卓越品质产品，以信誉和可靠性赢得客户信任。

Cultivating products with depth, continuous innovation, pursuing excellence in quality;

Customer-centric approach, growing together with customers, achieving mutual success;

Offering efficient solutions that leverage laser technology, going beyond mere product offerings;

Providing products of exceptional quality, earning customer trust through reputation and reliability.



## 公司简介

### COMPANY PROFILE

山东麦吉智能科技有限公司是一家集激光应用、设备研发、生产、销售为一体的高新技术企业。我们的工厂位于山东省泰安市。主要产品有激光切割机、激光打标机、激光焊接机、激光清洗机等行业激光设备。我们公司包含两个品牌：Magick laser 和 Manbaykon laser。我们的机器广泛应用于金属加工行业。

我们所有的产品都通过了CE、ROHS、FDA、EAC、SGS等国际知名认证。工厂现代化管理，已通过IOS质量管理体系认证。所有设备出厂前，我们都会进行严格的QC检验，让客户能够长期稳定使用。我们是可靠的激光设备供应商，提供多年的质量保证服务承诺。

作为高新技术企业，我们与国内外知名激光及配件企业、高校有着长期深入的合作。我们拥有专业的工程师团队，可以为客户提供定制化的技术支持。高效的销售团队和具有竞争力的价格优势，吸引了来自世界各地的客户，我们出口到100多个国家和地区，包括欧洲、南美、北美、中东、东南亚。

Magick 的产品坚持质量第一的原则，始终为客户带来美好的体验，我们希望与来自世界各地的客户合作。欢迎光临！

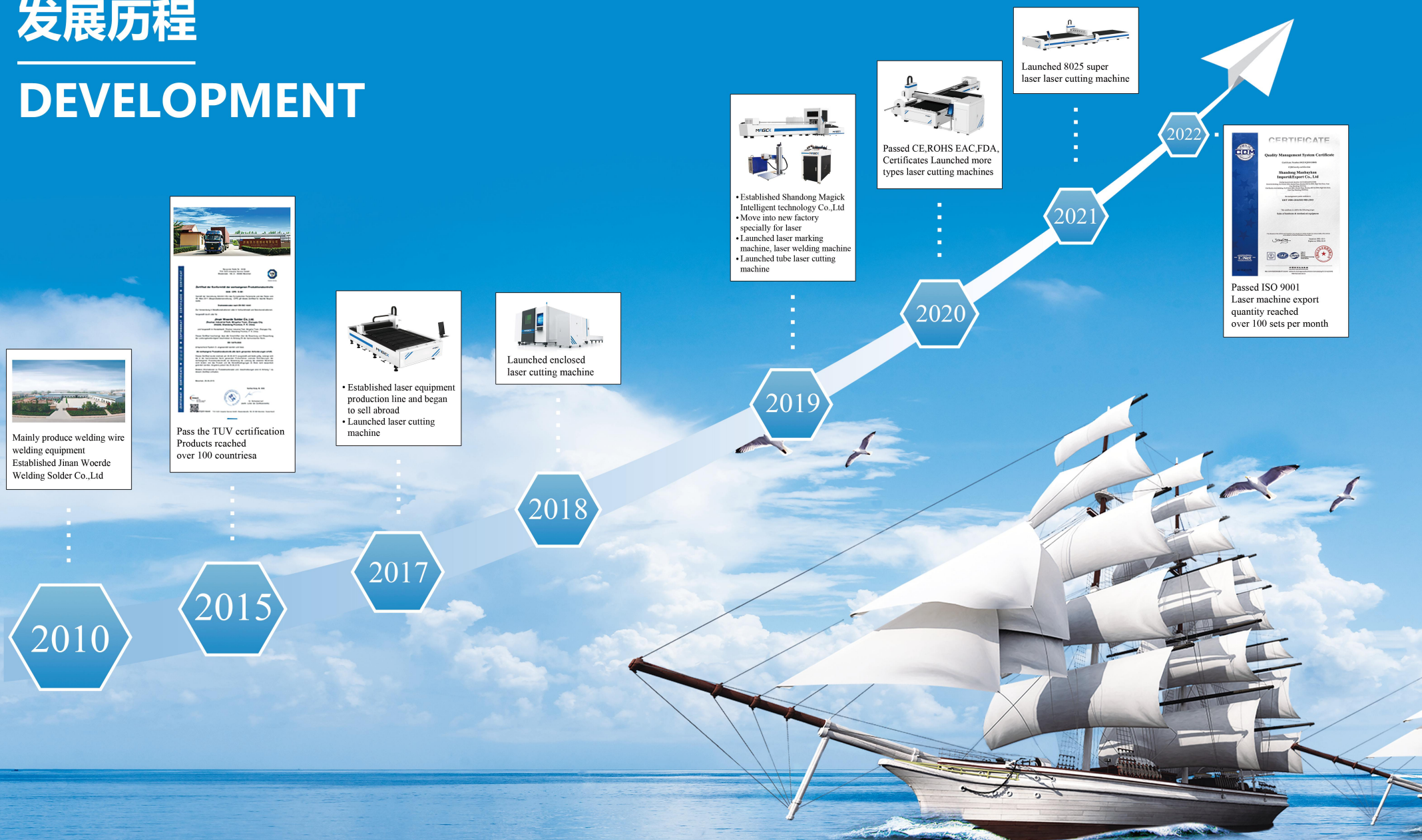
Shandong Magick Intelligent Technology Co., Ltd. is a high-tech enterprise integrating R&D, production and sales of laser application equipment. Our factory is located in Tai'an City, Shandong Province. The main products are laser cutting machines, laser marking machines, laser welding machines, laser cleaning machines and other industrial laser equipment. Our company contains two brands: Magick laser and Manbaykon laser. Our machines are widely used in the metal working industry.

All of our products have passed CE, ROHS, FDA, EAC, SGS and other internationally renowned certifications. The modern management of the factory has passed the IOS quality management system certification. Before all equipment leaves the factory, we will have strict QC inspecting, so that customers can use it stably for a long time. We are a reliable laser equipment supplier, providing years of quality assurance service commitment.

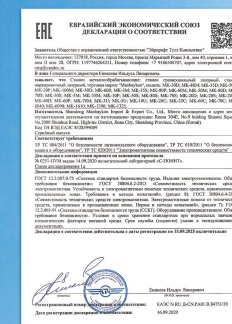
As a high-tech enterprise, we have long-term and in-depth cooperation with well-known laser and accessories companies and universities at home and abroad. We have a professional engineer team and can provide customers with customized technical support. Efficient sales team and competitive price advantage, attracting customers from all over the world, we export to more than 100 countries and regions, including Europe, South America, North America, Middle East, Southeast Asia.

Magick's products adhere to the principle of quality first and always bring customers a wonderful experience, and we hope to cooperate with customers from all over the world. welcome to visit us!

# 发展历程 DEVELOPMENT



# 产品认证 CERTIFICATES



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# M 金属板材光纤激光切割机

METAL SHEET FIBER LASER CUTTING MACHINE



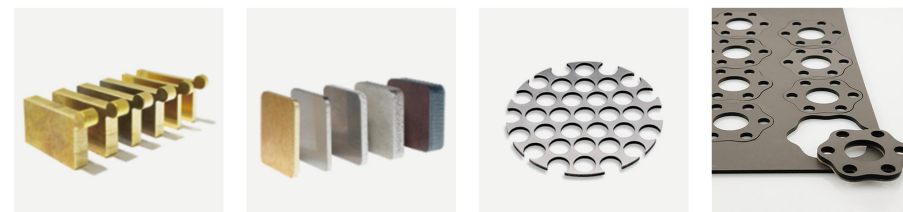
## 产品特点/Features:

1. 卓越的光束质量：聚焦光斑更小，切割线条更精细，工作效率更高，加工质量更好。
2. 极低的维护成本：无激光器工作气体；光纤传输，无需反射镜片；可节约大量维护成本。
3. 产品操作维护方便：光纤传输，无需调整光路。
4. 超强的柔性导光效果：体积小，结构紧凑，易于柔性加工要求。
1. Superior beam quality: smaller focusing spot, finer cutting lines, higher efficiency and better machining quality.
2. Very low maintenance cost: no laser working gas; Optical fiber transmission, no reflective lenses; Can save a lot of maintenance cost.
3. Easy operation and maintenance: optical fiber transmission, no need to adjust the optical path.
4. Super flexible light guiding effect: small size, compact structure, easy to flexible processing requirements.

## 适用材料/Applicable material:

专业用于切割0.5mm-50mm碳版，0.5mm-50mm不锈钢板、镀锌板、电解板、硅板，0.5mm-6mm铝合金，0.5mm-4mm黄铜等多种金属材料（厚度以及材料与激光有关）

Specially used for cutting 0.5mm-50mm carbon steel, 0.5mm-50mm stainless steel, galvanized steel, electrolytic zinc-coated steel, silicon steel, 0.5mm-6mm aluminium alloy, 0.5mm-mm brass, and red copper and other kinds of thin metal sheets (cutting material and thickness depends on laser power)



## 产品介绍/Product description:

采用高强度整体板材焊接机身，经过高温退火，大大减小机床的变形量。以进口精密齿轮齿条、直线导轨、传动运行，从而实现了机床的高精密、高效率、高稳定性。该设备采用激光专用速配系统，高性能伺服电机驱动，缩短待机时间，有效提高工作效率30%以上。

The machine body is welded with high-strength monolithic plates, and after high temperature annealing, the deformation of the machine tool is greatly reduced. We use imported precision rack and pinion, linear guide rail, transmission operation, make sure machine can realize the high precision, high efficiency and high stability. The equipment uses the laser-specific speed-matching system, driving system by a high-performance servo motor, which shortens standby time and effectively improves work efficiency by more than 30%.

型号	Model.No	MK-3015S	MK-4020S	MK-6020S	MK-6025S
工作区	Working Area	3000*1500mm	4000*2000mm	6000*2000mm	6000*2500mm
激光输出功率	Laser output power	1000W /1500W/2000W/3000W /4000W/6000W			
重复定位精度	Repeated repositioning accuracy	±0.03mm			
定位精度	Positioning accuracy	±0.02mm			
最大速度	Maximum speed	140m/min			
最大加速度	Maximum acceleration	1.2G			

# M 交换平台激光切割机

EXCHANGE PLATFORM FIBER LASER CUTTING MACHINE



## 产品特点/Features:

- 1. 机架由钢件焊接而成，具有较高的刚性及稳定性，有效消除高速切割过程中产生的震荡。
- 2. 龙门双驱结构，德国齿轮齿条传动系统，提高客户的生产效率。
- 3. 横梁采用铸造铝合金及精加工工艺制造而成。
- 4. 全闭环激光切割控制系统，具有高速穿孔及自动寻边功能，操作简单。
- 1. The frame is welded by steel parts, which has high rigidity and stability and can effectively eliminate the vibration during high-speed cutting.
- 2. Double-drive Gantry structure, German rack and pinion transmission system, improve customer's production efficiency.
- 3. The crossbeam is made of cast aluminum alloy and fine processing technology.
- 4. Full closed-loop laser cutting control system, with high-speed piercing and automatic edge-finding function, easy to operate.

## 适用材料/Applicable material:

专业用于切割0.5mm-50mm碳钢板，0.5mm-50mm不锈钢板、镀锌板电解板、硅板，0.5mm-10mm铝合金，0.5mm-8mm黄铜等多种金属材料（厚度以及材料与激光器有关）  
Specially used for cutting 0.5mm-50mm carbon steel, 0.5mm-50mm stainless steel, galvanized steel, electrolytic zinc-coated steel, silicon steel 0.5mm-10mm aluminium alloy, 0.5mm-8mm brass and red copper and other kinds of thin metal sheets  
(Material and thickness are related to laser type)



## 产品介绍/Product description:

其传动系统采用大型龙门双驱动和德国研磨级齿轮齿条；整体钢件焊接机架，高刚性及稳定性，有效提高客户的切割效果和生产效率；适用于切割碳钢，不锈钢，铝合金，钛合金等金属材料，应用于厨具灯具、钣金加工、五金机柜、汽车配件、冰箱、空调、电梯、酒店金属用品等行业。  
The transmission system adopts large double-drive Gantry and German grinding gear and rack; Integral Steel Parts Welding frame, high rigidity and stability, effectively improve the cutting effect and production efficiency of customers; suitable for cutting carbon steel, stainless steel, aluminum alloy, titanium alloy and other metal materials, applied to kitchen lamps, sheet metal processing, hardware cabinets, auto parts, refrigerators, air conditioning, elevators, hotel metal supplies and other industries.

型号	Model.No	MK-3015E	MK-4020E	MK-6020E	MK-6025E	MK-8025E
工作区	Working Area	3000*1500mm	4000*2000mm	6000*2000mm	6000*2500mm	8000*2500mm
激光输出功率	Laser output power	1000W /1500W /2000W /3000W/ 4000W /6000W /8000W /12000W				
重复定位精度	Repeated repositioning accuracy	±0.03mm				
定位精度	Positioning accuracy	±0.02mm				
最大速度	Maximum speed	140m/min				
最大加速度	Maximum acceleration	1.2G				

# M 封闭式金属光纤激光切割机

FULL ENCLOSED FIBER LASER CUTTING MACHINE



## 产品介绍/Product description:

采用世界顶级的IPG激光器，移动式龙门结构机床，整体外包围结构，能保持长时间良好的稳定性、安全性；自动交换式工作台，设备科边加工边上料，方便快捷省时；伺服电机硬件运行系统与软件数控系统同为德国原装进口，兼容性好，稳定性强，维护更方便，切割功能更强大。

Adopting the world's top IPG Laser source, mobile gantry structure machine bed, and integral external enclosed structure, it can maintain good stability and safety for a long time. Automatic exchange worktable, equipment branch processes materials while loading and unloading, which is convenient, fast and time-saving. The servo motor hardware operation system and the software numerical control system are both imported from Germany with good compatibility, strong stability, more convenient maintenance and stronger cutting function.

## 产品特点/Features:

1. 封闭式加工环境，防尘、防烟、安全环保。
  2. 整体重型龙门结构机床、高强度焊接钢滑梁，整体刚性良好，性能稳定。
  3. 专业激光切割数控系统，自动寻边、自动排料、提高板材利用率和生产效率。
  4. 高速交换工作台，简化工作流程节约时间。
1. Closed processing environment, Smoke and dust proof, safe and environmental.
2. Entirely heavy gantry structure machine tool, high strength welded steel beam, good rigidity, stable performance.
3. Professional laser cutting CNC system, automatic edge finding, automatic material arrangement, improve the utilization rate of plate and production efficiency.
4. High speed exchange platform, make the work flow simply and save time.

## 适用材料/Applicable material:

专业用于切割0.5mm-50mm碳钢板，0.5mm-50mm不锈钢板、镀锌板、电解板、硅板，0.5mm-10mm铝合金，0.5mm-8mm黄铜等多种金属材料（厚度以及材料与激光器有关）

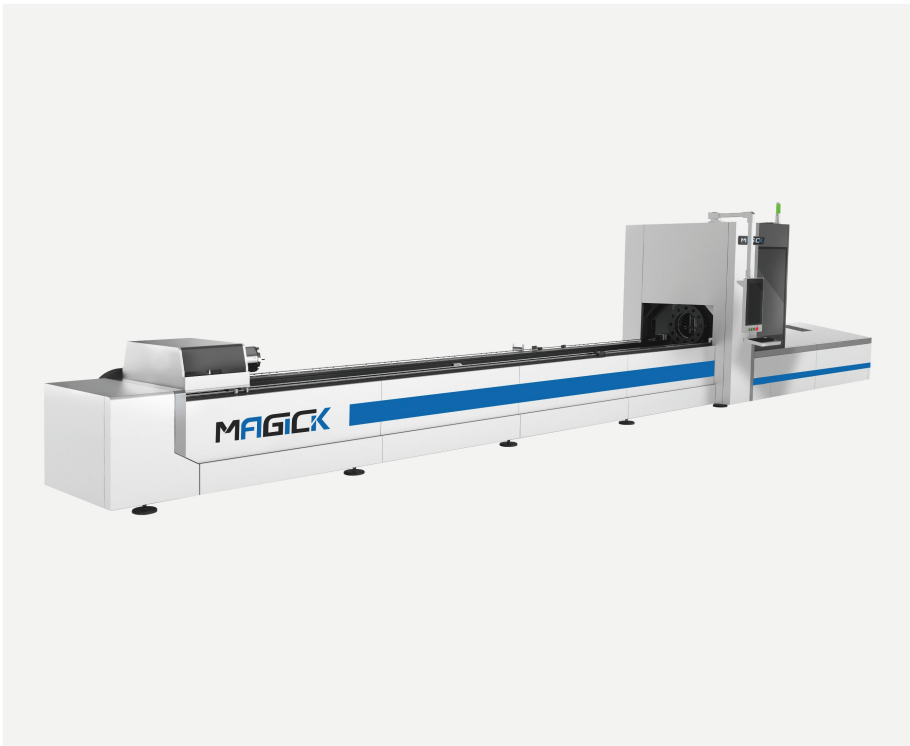
Specially used for cutting 0.5mm-50mm carbon steel, 0.5mm-50mm stainless steel, galvanized steel, electrolytic zinc-coated steel, silicon steel, 0.5mm-10mm aluminium alloy, 0.5mm-8mm brass and red copper and other kinds of thin metal sheets (Material and thickness are related to laser type)



型号	Model.No	MK-3015EC	MK-4020EC	MK-6020EC	MK-6025EC	MK-8025EC	MK-10250EC
工作区	Working Area	3000*1500mm	4000*2000mm	6000*2000mm	6000*2500mm	8000*2500mm	10200*2500mm
激光输出功率	Laser output power	1000W /1500W /2000W /3000W/ 4000W /6000W /8000W /12000W					
重复定位精度	Repeated repositioning accuracy	±0.03mm					
定位精度	Positioning accuracy	±0.02mm					
最大速度	Maximum speed	140m/min					
最大加速度	Maximum acceleration	1.2G					

# M 金属光纤激光切管机

METAL FIBER TUBE LASER CUTTING MACHINE



## 产品介绍/Product description:

该机采用伺服电机驱动，齿轮齿条传动，高精度卡盘配合高精度伺服减速系统，推进式切管的方式，并配备专用的切管软件，可用于常见的方管、圆管、矩形管的切割。  
This machine adopts servo motor drive, rack and pinion drive, high precision chuck with high precision servo deceleration system, propulsive pipe cutting way, and match professional FS cut software, It can be used for circular tube, square tube, and rectangular tube cutting.

## 产品特点/Features:

- 1. 高精度，管材实现无感高效检测，实现全米段切割精度位置偏差0.15mm以内。
  - 2. 可加工市场常规的方管、圆管、矩形管。
  - 3. 数字化全程卡盘，无需人工调节。
  - 4. 专业的套料软件，支持在圆管面上加工任意曲线图形。
1. High precision pipe material, achieve sensorless and efficient detection, achieve full meter section cutting precision position deviation within 0.15 mm.
2. Processing market conventional circular tube, square tube, rectangular tube.
3. Digital chuck without manual adjustment.
4. Professional nesting software, support for processing arbitrary curve graphics on round tubes.

## 适用材料/Applicable material:

专业用于切割厚度1-10mm的圆管、方管、矩形管等异形金属管材，适用于φ20-φ350，管长最长12000mm的多种管材。  
Specially used for cutting 1-10mm steel pipes, galvanized pipes, electrolysis tubes and other thin metal material, diameter φ20mm-φ350mm, pipe length max. 12000mm.



型号	Model.No	MK-12035T	MK-12020T	MK-6020T
激光输出功率	Laser output power	1000W~30000W		
圆管直径	Diameter of round tube	φ20-350mm	φ20-230mm	
方管边长	Side length of square tube	□20-350mm	□20-230mm	
定位精度	Positioning accuracy	±0.05mm		
重复定位精度	Repeat positioning accuracy	±0.05mm		
最大移动速度	Maximum speed of movement	80m/min	110m/min	
最大加速度	Maximum acceleration	0.8G	1.5G	

# M 交换平台板管一体光纤激光切割机

EXCHANGE PLATFORM SHEET & TUBE INTEGRATED FIBER LASER CUTTING MACHINE



## 产品介绍/Product description:

该机型采用伺服电机驱动，齿轮齿条传动，高精度卡盘配合高精度伺服减速系统，推进式切管的方式，并配备专用的切管软件，可用于一般的钣金切割及常见的方管、圆管、矩形管的切割。

This machine adopts servo motor drive, rack and pinion drive, high precision chuck with high precision servo deceleration system, propulsive pipe cutting way, and match professional FScut software, It can be used for common sheet metal cutting and rectangle pipe, round pipe, and square pipe cutting.

## 产品特点/Features:

1. 能在主管上切割多个不同方向、不同直径的圆柱相关线孔，满足支管轴线与主管轴线偏心和非偏心的垂直相交条件。
  2. 能在支管端部切割圆柱相贯线端头，满足支管轴线与主管轴线偏心和非偏心的垂直相交、倾斜相交的条件。
  3. 能在圆管上切割方孔、腰形孔。
  4. 能在方管上切割各种图形。
1. It can cut multiple cylindrical wire holes with different directions and different diameters on the main pipe. Satisfy the vertical intersection condition of the branch pipe axis and the main pipe axis eccentric and non-eccentric.
2. It can cut the end of the cylindrical intersecting line at the end of the branch pipe. Satisfy the condition of eccentric and non-eccentric perpendicular intersection and oblique intersection between the branch pipe axis and the main pipe axis.
3. Can cut square hole and waist hole on round pipe.
4. Can cut all kinds of graphics on square pipe.

## 适用材料/Applicable material:

专业用于切割0.5mm-22mm碳钢板、管；0.5mm-14mm不锈钢板、管；镀锌板、管；电解板、管；硅钢等多种薄金属材料，管径 $\phi 20\text{mm}$ - $\phi 220\text{mm}$ ，方管口20mm-口160mm。

Specially used for cutting 0.5mm-22mm carbon steel sheets and pipes; 0.5mm-14mm stainless steel sheets and pipes, galvanized steel sheets and pipes, electrolytic zinc-coated steel sheets and pipes; silicon steel sheets and pipes and other kinds of thin metal sheets and pipes. The pipes diameter is from  $\phi 20\text{mm}$ -  $\phi 220\text{mm}$ , square tube width is 20mm- 160mm.



型号		Model.No		MK-3015ET	MK-4020ET	MK-6020ET
工作区		Working Area		3000*1500mm	4000*2000mm	6000*2000mm
激光输出功率		Laser output power		1000W /1500W / 2000W / 3000W / 4000W		
管道有效切割直径		Effective pipe cutting diameter		$\phi 20$ - $\phi 220\text{mm}$		
有效方管切割直径		Effective square tube cutting diameter		$\square 20$ * $20$ - $\square 160$ * $160\text{mm}$		
矩形管	最小边缘长度	Rectangular tube	Min. Edge length	$\geq 20\text{mm}$		
	最大边缘长度		Max. Outer circle diameter	$\leq 220\text{mm}$		
有效切管长度		Effective pipe cutting length		3m/6m		
X/Y轴定位精度		X/Y/U-axis positioning accuracy		0.03mm		
X/U轴重定位精度		X/Y/U-axis repositioning accuracy		0.02mm		
X/Y轴最大值联动速度		X/Y-axis Max. linkage speed		120m/min		
U轴最大移动速度		U-axis Max. moving speed		30m/min		

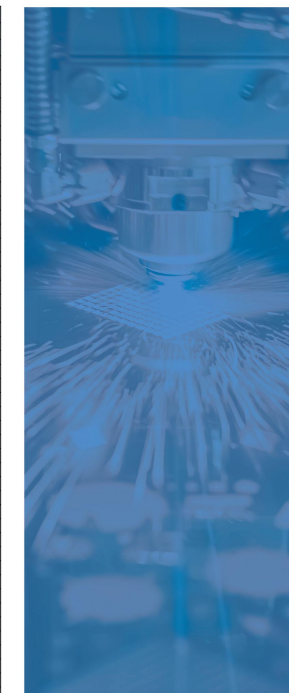
## 激光切割工艺参数参考表

Reference table of laser cutting process parameters

光纤激光切割厚度及速度参数 Technical Parameters

材料 Material	厚度(mm) Thickness	1000W 切割速度Speed (m/min)	1500W 切割速度Speed (m/min)	2000W 切割速度Speed (m/min)	3000W 切割速度Speed (m/min)	4000W 切割速度Speed (m/min)	6000W 切割速度Speed (m/min)	8000W 切割速度Speed (m/min)
碳钢 carbon steel	1	20-22	26-29	35-38	47-50	63-65	58-62	61-63
	2	6-7	7-8	10-12	21-23	31-33	31-36	33-37
	3	2.8-3	2.9-3.2	3.4-3.6	6-12	12-15	19-22	21-25
	4	2.2-2.4	2.4-2.6	3.1-3.2	3.4-3.6	7-9	11-13	15-17
	5	1.5-1.7	1.8-2.0				8-10	11-13
	6	1.2-1.4	1.6-1.8	2.4-2.5	2.7-2.8	2.8-2.9	5.5-6.5	8-10
	8	1.0-1.1	1.1-1.3	1.5-1.7	2.1-2.3	2.3-2.4	2.5-2.6	5-6
	10	0.75-0.85	0.9-1.0	1.2-1.4	1.4-1.6	1.8-1.9	2.2-2.3	2.2-2.3
	12	0.6-0.65		1-1.1	1-1.1	1.3-1.5	1.8-2.0	1.9-2.0
	14		0.6-0.7	0.9-1.0	0.9-0.95	0.9-1.0	1.4-1.7	1.5-1.7
	16		0.5-0.6	0.8-0.85	0.8-0.85	0.8-0.9	1.2-1.3	1.4-1.6
	18			0.7-0.75	0.7-0.72	0.7-0.8	0.7-0.8	1.1-1.3
	20			0.55-0.6		0.6-0.65	0.6-0.65	0.8-1.1
	22				0.55	0.55-0.6	0.55-0.6	0.75
	25					0.5	0.5-0.55	0.5-0.55
	30							0.28-0.3
	35							
	40							
	45							
	60							
	70							
	80							
不锈钢 Stainless steel	1	21-23	27-30	37-40	50-53	60-65	59-65	61-63
	2	6.5-7	8-9	11-13	23-25	26-28	32-38	32-37
	3	2.3-2.5	4.2-4.5	5.5-6	10-12	13-16	20-24	21-25
	4	1.4-1.6	2.0-2.2	3.5-4	6-8	8-10	12-15	15-17
	5	0.6-0.7	1.5-1.7	2-2.2		9-11	11-13	
	6	0.5-0.6	1.0-1.2	1.3-1.5	2.9-3.1	3.9-4.3	6-7.5	8-10
	8		0.5-0.6	0.6-0.7	1.2-1.3	1.5-1.8	4-4.5	5-6
	10			0.45-0.5	0.75-0.8	1-1.2	2.2-2.4	3.5-4
	12				0.5	0.8-0.9	1.3-1.5	2.2-2.5
	14					0.4	0.9-1.0	1.7-2
	16						0.8-0.85	1-1.2
	18							0.8-1.0
	20						0.5-0.6	0.8
	22							
	25							0.2
	30							
	35							
	40							
	50							
	60							
	70							
铝 aluminum	1	15-17	21-23	24-27	40-43	50-55	43-46	45-47
	2	3.5-4	5-7	10-11	16-18	17-19	26-28	30-32
	3	1.4-1.6	3.2-3.5	4.5-5	8-10	11-13	14-17	17-19
	4		1.5-1.7	1.7-2.0	5-6	6-7	10-11	12-13
	5		0.8-0.7				6-6.5	8-9
	6			0.7-0.9	1.5-2	2.2-2.5	4.5-5	6-7
	8				0.6-0.7	1-1.2	2.8-2.9	3.5-4.5
	10					0.5-0.6	1.7-1.8	2-3
	12						1.0-1.2	1.7-2
	14						0.7-0.9	1-1.2
	16						0.5-0.6	0.9
	18							0.7
	20							
	22							
	25							
	30							
	40							
	50							
黄铜 brass	1	13-15	18-20	27-30	37-40	48-50	41-43	42-45
	2	3-3.5	4-5	10-11	14-16	16-18	24-26	28-30
	3	0.9-1.1	2.3-2.5	4-4.5	7-9	9-11	13-14	15-17
	4		1.2-1.4	1.5-1.7	3-4	4-6	9-10	11-12
	5						5-6	7-8
	6			0.5-0.7	1.2-1.5	2.1-2.4	4-4.5	5-6
	8				0.5-0.6	0.9-1.1	2.3-2.5	3-4
	10						1.5-1.6	1.6-1.8
	12						1.0-1.2	1.2-1.4
	14						0.7-0.9	0.8-1.0
	16						0.5-0.6	0.8
	18							0.6
	20							
	22							
	25							

材料 Material	厚度(mm) Thickness	10000W 切割速度Speed (m/min)	12000W 切割速度Speed (m/min)	15000W 切割速度Speed (m/min)	20000W 切割速度Speed (m/min)
碳钢 carbon steel	1				
	2				
	3	25-30	32-38	34-39	35-40
	4	18-20	22-26	25-29	26-30
	5	13-16	17-20	18-22	25-28
	6	10-13	12-14	16-18	22-24
	8	7-8	8-10	10-11	13-15
	10	3.5-4.8	5-6	7-8	10-12
	12	2.8-3.2	4.2-5	5.5-6.5	8-9
	14	1.5-1.6	3.5-4.2	5-5.5	5.5-6.5
	16	1.4-1.6	1.4-1.6	1.4-1.6	3-4
	18	1.4-1.5	1.4-1.5	1.4-1.5	3-3.5
	20	1.3-1.4	1.4-1.5	1.4-1.5	2-3
	22	1.1	1.2	1.2-1.3	1.3-1.5
	25	0.8	1	1.2-1.3	1.2-1.4
	30	0.35	0.4	0.8-0.9	1-1.3
	35	0.3	0.35	0.4	0.9-1.2
	40	0.2	0.3	0.35	0.5-0.8
	45		0.2	0.25	
	50			0.2	0.3-0.5
	60				0.1-0.2
	70				0.1-0.2
	80				0.1-0.2
不锈钢 Stainless steel	1				
	2				
	3	25-30	32-38	34-39	35-40
	4	18-20	22-26	25-29	28-32
	5	13-16	17-20	18-22	25-28
	6	10-13	14-16	17-20	20-24
	8	6.5-8.5	10-12	12-14	14-16
	10	5-6	8-9	8-10	11-13
	12	3-4	6.0-6.5	7-7.5	8-10
	14	2.5-3.3	3.7-4	4.8-5	6.5-7
	16	2-2.5	2.7-3	3.4-3.8	4.5-5.5
	18	1.7-1.9	2.2-2.5	3-3.3	3.5-4.5
	20	1.2-1.4	1.6-1.8	2-2.2	2.3-2.6
	22				
	25	0.9	0.8-1	1.2-1.5	1.8-2.2
	30	0.16	0.65	0.6-0.7	0.8-1.3
	35				0.3-0.6
	40	0.1	0.15	0.25	0.2-0.3
	50		0.1	0.15	0.1-0.2
	60			0.1	0.1-0.2
	70			0.06	0.1-0.15
	80				0.1-0.15
	90				0.05-0.1
	100				0.05-0.08
铝 aluminum	1				
	2				
	3	19-24	27-30	28-32	29-34
	4	14-17	19-21	20-22	21-26
	5	10-13	14-16	16-18	16-20
	6	8-10	10-12	12-14	13-17
	8	5-6.5	7-8	8-9	10-13
	10	3-4	4-5	5.5-6	6-8
	12	2-2.5	2.5-3	3.5-4	4-6
	14	1.5-1.7	2.3-2.5	2.5-3	3-4
	16	1.0-1.3	1.6-1.8	1.8-2	2-3
	18	1	1-1.2	1.4-1.6	1.5-2
	20	0.6	0.8	0.9-1.0	1-1.5
	22		0.5	0.8	
	25			0.5	0.8-1
	30				0.5-0.8
	40				0.3-0.5
	50				0.2-0.3
黄铜 brass	1				
	2				
	3	17-22	25-28	25-29	28-30
	4	12-15	16-18	18-20	21-26
	5	9-11	12-14	13-16	14-18
	6	7-9	9-11	11-13	11-15
	8	5-6	6-7	7-8	8-10
	10	2.5-3.5	3.5-4.5	5-5.5	5-7
	12	1.9-2.2	2.2-2.8	3.2-3.5	4-6
	14	1.2-1.5	1.8-2	2.3-2.8	2-3
	16	0.8-1.0	1.4-1.6	1.5-1.8	1.8-2.5
	18	0.8	0.8-1.0	1.1-1.3	
	20	0.5	0.7	0.7-0.9	1.5-2
	22		0.4	0.7	
	25			0.4	



注意：本参数仅供参考，现场各种情况（板材质量，气体质量等等）影响较多，因此不能作为验收或质量追溯的依据，以上数据仅供参考！

Note: the data in this table is for reference only! The various conditions (sheet quality, gas quality, etc.) on the spot have a lot of influence, so it can not be used as the basis for acceptance or quality traceability. The above figures are for reference only!

# M4合1手持激光焊接机

4 IN 1 HAND-HELD LASER WELDING MACHINE



## 产品介绍/Product description:

激光手持式激光焊接机，采用最新一代光纤激光器，配置自主研发的wobble焊接头，填补激光设备行业手持式焊接的空白，具有操作简单、焊缝美观、焊接速度快、无耗材的优势，在薄不锈钢板、铁板、铝板等金属材料方面焊接，可完美取代传统氩弧焊、电焊工艺。

可广泛应用于橱柜厨卫、楼梯电梯、货架、烤炉、不锈钢门窗护栏、配电箱、不锈钢家居等行业复杂不规则的焊接工序。

Using the latest generation fiber laser source and Independent research and development wobble welding head, it filled in the blank of hand-held welding in laser equipment industry. Widely used in cabinets, kitchen, staircase elevator, shelf, oven, stainless steel door and window guardrail, distribution box, stainless steel home and other industries complex and irregular welding procedures.

It is especially suitable for applications such as marking of food and pharmaceutical packaging materials, micropores, high-speed division of glass materials, and complex graphic cutting of wafers.

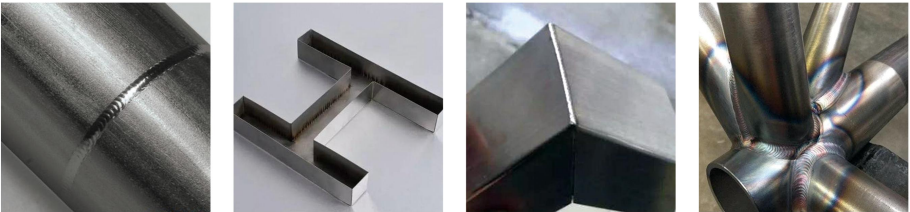
## 产品特点/Features:

- 1.焊接速度快，比传统焊接快2-10倍，一台机器一年至少可以省2个焊工。
  - 2.操作简单，无需上岗证即可上岗，不用老师傅也能焊出漂亮产品。
  - 3.焊缝平滑漂亮，减少后续打磨工序，节省时间和成本。
  - 4.焊接工件无变形，无焊疤，焊接牢固。
  - 5.激光焊接耗材少，寿命长。
- 1.Fast welding speed, 2~10 times faster than traditional welding.
  - 2.Easy operate without training.
  - 3.Beautiful welded seams, reducing polishing processes, save time and cost.
  - 4.No deformation or welding scar, firm welding of the workpiece.
  - 5.Laser welding has less consumables and long service life.

## 适用材料/Applicable material:

适用于不锈钢、碳钢、铜、铝、金、银、铬、镍、钛、银等多种金属或合金，也可用于多种异种材料间的焊接。

Applicable to stainless steel, carbon steel, copper, aluminum, gold, silver, chromium, nickel, titanium, tantalum and other metals or alloys; also can be used welding between a variety of dissimilar materials.



型号	Model.No	MK-1000HW	MK-1500HW	MK-2000HW	MK-3000HW
操作模式	Operating mode	Continuous /Modulation			
激光波长	Laser wavelength	±2%			
功率要求	Power requirements	220V/380V			
机器功率	Machine power	≤7KW	≤9KW	≤11KW	≤12.5KW
工作环境温度范围	Operating environment temperature range	15-35℃			
工作环境湿度范围	Working environment humidity range	<70%No condensation			
焊接厚度范围	Welding thickness range	0.5-0.8MM			
焊接线要求	Welding line requirements	≤0.5mm			
焊接速度	Welding speed	0-120mm/s			

# M 光纤激光打标机

FIBER LASER MARKING MACHINE



## 产品特点/Features:

- 1.采用先进的数字式高速扫描振镜，速度快无偏差，体积小，稳定性好，性能达到国际先进水平。
  - 2.模块化设计，激光发生器和升降器分开，更加灵活，可在更大面积和复杂表面上打标。内部风冷，占地面积小，易于安装。
  - 3.光电转换效率高，操作简单，结构紧凑，支持恶劣的工作环境，无消耗品。
  - 4.MK型光纤激光打标机便携式，易于运输，由于其体积小且加工小件效率高，因此在某些购物中心特别受欢迎。
- 1.Adopts advanced digital high speed scanning galvanometer, quick speed without deviation, small volume, good stability, and performance reached the international advanced level.
- 2.Modular design, separate laser generator and lifter, more flexible, can mark on bigger area and complicated surface. Air-cooled inside, small occupation, easy to install.
- 3.High efficiency for photoelectric conversion, simple operation, Compact in structure, support harsh working environment, no consumables.
- 4.MK-Style fiber laser marking machine is portable and easy for transportation, especially popular in some shopping malls due to its small volume and high efficiency on working small pieces.

## 适用材料/Applicable material:

适用于高硬合金、电镀产品、镀膜产品、ABS、环氧树脂、油墨涂覆产品，陶瓷、工程塑料等。  
Hard alloys, plated products, coated products, ABS, epoxy resin, ink coated products, ceramics, engineering plastics and so on.



## 产品介绍/Product description:

光纤激光打标机是利用激光束在各种不同的物质表面打上永久的标记。打标的效应是通过表层物质的蒸发露出深层物质，或者是通过光能导致表层物质的物理变化而"刻"出痕迹，或者是通过光能烧掉部分物质，显出所需刻蚀的图案、文字、条形码等各类图形。

Fiber laser marking machine uses laser beam to make permanent marks on the surface of various materials. The effect of marking is to expose the deep material through the evaporation of the surface material, or to "carve" traces through the physical change of the surface material caused by light energy, or to burn off part of the material through light energy to reveal the pattern to be etched, Text, bar code and other graphics.

产品类型	Product type	Fiber laser marking machine
激光功率	Laser power	30W~300W
激光波长 (nm)	Laser Wave-Length (nm)	1064nm
激光重复频率	Laser Repetition Frequency	≤50kHz
标准标记区域 (mm)	Standard Marking Area (mm)	110*110mm or Can be customized for larger
打标深度(mm)	marking Depth (mm)	≤2mm
打标速度 (mm)	Marking Speed (mm)	7000~12000mm/s

# M CO2激光打标机

CO2 LASER MARKING MACHINE



## 产品介绍/Product description:

CO2 激光飞行打标机采用 CO2 射频激光器和高速扫描振镜系统。整机系统打标精度高、速度快、性能稳定可应用于大批量在线加工流水生产线上。

The CO2 laser flight marking machine uses a CO2 RF laser and a high-speed scanning galvanometersystem. The marking system of the whole machine has high precision, high speed and stable performance, and can be applied to large-scale online processing flow production line.

## 产品特点/Features:

- 1.可靠性高，连续运行时间长，打印清晰完整。
- 2.借助丰富的软件支持，可以收集和制造各种标签，进行非接触式处理。
- 3.确保工件表面的原始精度达到最大极限。
- 4.适用于各种材质的雕刻，预磨时间长，安装简单，方便。
- 5.光学系统完全密封，可以防止灰尘进入激光机体，降低设备故障率。
- 1.high reliability, long continuous operation time, clear and complete printing.
- 2.Supported by rich software, enable to collect and manufacture various labels, non-contact processing
- 3.Ensure original precision of the surface of work piece to the maximum limit.
- 4.Ensure original precision on the surface of work piece to the maximum limit.
- 5.The optical system is fully sealed, it can prevent the dust from entering laser body and reduce the equipment failure rate.

## 适用材料/Applicable material:

适用于亚克力、有机玻璃、竹木器、树脂、塑料、橡胶、纸张、布料服装、皮革、陶瓷、人造石等材质的打标、雕刻、镂花。  
Applicable to marking plexiglass, bamboo and wood, resin, plastic rubber, paper, cloth clothing, leather, ceramics, artificial stone and other materials.



产品类型	Product type	CO2 laser marking machine
激光功率	Laser power	30W 50W 100W (Optionl)
激光波长 (nm)	Laser Wave-Length (nm)	10.64μm~9.2μm
激光重复频率	Laser Repetition Frequency	20KHz ≤30KHz ≤60KHz
标准标记区域 (mm)	Standard Marking Area (mm)	110*110mm or Can be customized for larger
打标深度(mm)	marking Depth (mm)	0.01-0.1mm
打标速度 (mm)	Marking Speed (mm)	7000-12000mm/s

# M UV激光打标机

UV LASER MARKING MACHINE



## 产品介绍/Product description:

紫外线激光打标机属于一系列激光加工技术。它使用355nm紫外激光作为光源。该机采用三阶腔内倍频技术与红外激光（脉冲光纤激光器），355紫外聚焦点进行比较。体积小，因为它主要用于超细标记，雕刻，切割，所以可以大大减少材料的机械变形，并且对加工热量的影响很小。

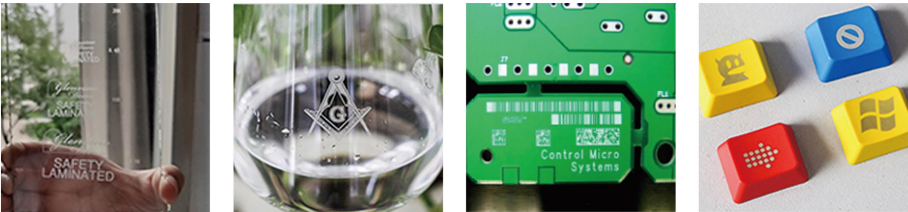
Ultraviolet laser marking machine belongs to a series of laser processing technology. It uses 355nm UV laser as the light source. The machine uses third-order intracavity frequency doubling technology to compare with infrared laser (pulsed fiber laser), 355 ultraviolet focusing spot. Small, can greatly reduce the mechanical deformation of the material and has little influence on the processing heat, because it is mainly used for superfine marking, engraving, cutting.

## 产品特点/Features:

- 1.水冷设备，体积小，免维护20,000小时（理论使用寿命20,000小时）。
  - 2.焦点极小，加工热影响区小（冷光），使材料受热面积更小。不易受热变形，超精细打标，特殊材料打标。
  - 3.使用成本低，光束质量更好，效率高，功耗低，更加节能环保。
  - 4.可适用于高端市场，超精细的打标环境，化妆品，药品，LCD液晶，电子零件，通讯设备，食品和药品包装，玻璃事业部电子零件，金属珠宝首饰的打标。
1. Water-cooling device, small size, 20,000 hours maintenance-free (theoretical 20,000 hours of service life).
2. The focused spot is extremely small, and the processing heat affected zone is small (cold light), making the material heat-receiving area smaller. Not susceptible to heat deformation, ultra-fine marking, special material marking.
3. Low cost of use, better beam quality, high efficiency, low power consumption, more energy saving and environmental protection.
4. Can be applied to high-end market, ultra-fine marking environment, cosmetics, pharmaceuticals, LCD liquid crystal, electronic components, communication equipment, food and medicine packaging, glass division, electronic components, metal jewelry marking.

## 适用材料/Applicable material:

适用于玻璃、高分子材料等物体表面打标，微孔加工。  
Applicable to the surface marking of glass, polymer materials, etc., micro-hole processing.



产品类型	Product type	UV laser marking machine
激光功率	Laser power	3W-15W(Optional)
激光波长 (nm)	Laser Wave-Length (nm)	355nm
激光重复频率	Laser Repetition Frequency	100kHz
标准标记区域 (mm)	Standard Marking Area (mm)	110*110mm or Can be customized for larger
打标深度(mm)	marking Depth (mm)	0.01-0.1mm
打标速度 (mm)	Marking Speed (mm)	7000-12000mm/s
冷却	Cooling	Water Cooling

# M 焊接机-其他机型

LASER WELDING MACHINE-OTHER MODELS



激光焊接一体机  
Laser Welding All-in-one Machine



激光焊接机  
Laser Welding Machine



激光焊接一体机  
Laser Welding All-in-one Machine



激光焊接一体机  
Laser Welding All-in-one Machine



激光焊接一体机  
Laser Welding All-in-one Machine



风冷激光焊接机  
Air-Cooled Laser Welding Machine

# M 打标机-其他机型

LASER MARKING MACHINE-OTHER MODELS



UV龙门激光打标机  
UV Gantry Laser Marking Machine



紫外激光打标机  
UV Laser Marking Machine



飞行激光打标机  
Flying Laser Marking Machine



CCD视觉定位激光打标机  
CCD Visual Positioning Laser Marking Machine



便携式激光打标机  
Portable Laser Marking Machine



光纤便携手持激光打标机  
Optical Fiber Portable Handheld Laser Marking Machine



分体光纤激光打标机  
Split Fiber Laser Marking Machine



CO2激光打标机  
CO2 Laser Marking Machine



封闭式激光打标机  
Closed Laser Marking Machine



封闭式激光打标机  
Closed Laser Marking Machine



半封闭式台式激光打标机  
Semi-enclosed Desktop Laser Marking Machine



激光打标机  
Laser Marking Machine



桌面激光打标机  
Desktop Laser Marking Machine



台式激光打标机  
Desktop Laser Marking Machine



台式激光打标机  
Desktop Laser Marking Machine



2.5D激光打标机  
2.5D Laser Marking Machine

# M手持激光清洗机

HAND-HELD LASER CLEANING MACHINE



## 产品介绍/Product description:

清洗机，用于冲洗过滤液压系统在制造、装配、使用过程及维护时生成或侵入的污染物;也可以适用于对工作油液的定期维护过滤，提高清洁度，避免或减少因污染而造成的故障，从而保证液压系统设备的高性能、高可靠度和长寿命。  
The cleaning machine is used to flush and filter the pollutants generated or invaded during the manufacturing, assembly, use and maintenance of the hydraulic system; it can also be used for regular maintenance and filtration of working oil to improve cleanliness and avoid or reduce pollution caused by In order to ensure the high performance, high reliability and long life of hydraulic system equipment.

## 产品特点/Features:

- 1.基材非接触式清洗，无损坏。
- 2.高精度清洗，位置清洗精度高，选择性清洗。
- 3.无化学清洗液，不消耗材料，安全环保。
- 4.操作简单，手持清洁或用机械手清洁。
- 5.良好的清洁效果，节省时间。
- 1.Substrate non-contact cleaning, without damage.
- 2.High precision cleaning, good precision of position cleaning, selective washing.
- 3.Without any chemical cleaning fluid and no consume materials,safe and environment protecting.
- 4.Simple operation,hand-hold clean or with a mechanical hand to clean .
- 5.Good cleaning effect and save time.

## 适用材料/Applicable material:

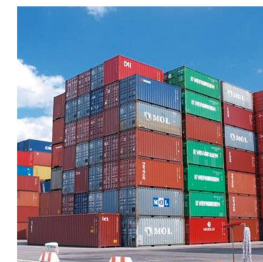
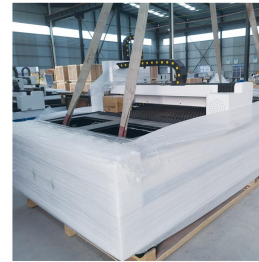
适用于金属表面除锈、表面除漆脱漆处理、表面油污、污渍、污垢清洗、表面镀层、涂层清除、焊接面预处理、喷涂面预处理、石像表面灰尘及附着物清除、橡胶模具残留物清理。  
Removal the rust of the metal、oil,removal the coating of the products,removal the welding surface,re-moval the painting surfaceremoval the dust of the statues,removal the residue of the rubber molds.



产品类型	Product type	Hand-Held Laser Cleaning Machine
激光功率	Laser power	100W~3000W
输入功率	Input Power	220V, 50/60H
镭射型	Laser - Type	LD-Fiber
平均功率 (W), 最大	Average Power (W), Max	100
平均功率 (W)	Average Power (W)	0-100
输出范围 (如果可调)	Output Range(If adjustable)	0-100
扫描宽度(mm)	Scanning Width (mm)	10~80
预期焦距(mm)	Expected Focal Distance(mm)	160mm
冷却方式	Cooling Type	Air cooling

# DELIVERY

Standard wooden cases with sponge filled inside for packing protection.  
The Wooden case is fumigation free which is suitable by sea & by air.  
Customized Packing as per Customer's requirement.



# M展会 EXHIBITION

