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TECHNICAL SOLUTIONS

ONEW METAL Megrez δ100s

手持激光焊接机

为贵司提供下述技术方案及详细说明。

感谢贵司对我司及我司设备的关注！

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一、 企业介绍

1. 企业简介

佛山市开景激光科技有限公司是一家集设计、制造、销售于一体专业从事金属管材类切割设备的企业。产品包括：专业三维激光切管机、圆管三维全自动激光切管机、圆管全自动激光下料机、水管管件专用激光切割机、焊管线在线激光切管机等机型多达二十多种。产品广泛应用于不锈钢管材配件、五金家具、运动器材、汽车、摩托车、电动车、自行车、空调、护栏、防盗网、货架等行业。目前在不锈钢水管管件、汽车、家具、卫浴行业得到了广泛的应用。产品服务于世界各地、得到了国内外诸多好评。

公司自成立以来，秉承着诚信经营的理念，紧紧围绕“让切管更简单”的企业愿景，坚持以“用创新寻求可持续发展，用品质捍卫尊严”的价值观，为客户提供可靠、智能、省人工的整套全自动化金属管材切割加工设备。风雨兼程 12 年，开景激光不仅在国内深受喜爱，在中国台湾、巴基斯坦、俄罗斯、印度、越南、印尼、泰国、墨西哥等海外市场有很大的市场份额，并在越南、印尼有较高的市场占有率，其中不锈钢焊管在线切割设备国内占有率接近 70%。未来开景激光将不断超越自我，提供品质更好、更省人工的产品，以回馈所有支持和给予帮助的客户和合作伙伴。



2. 企业资质及荣誉

佛山开景经过多年的不懈努力，多次获得国家及省部级科技创新荣誉：



3. 合作伙伴



二、技术方案

设备名称：

Onew Metal Megrez 6100s 手持激光焊接机

设备图片：



Onew Metal Megrez - δ 100s 设备特点介绍:

1. 学习难度低, 1 天学会
low learning difficulty, 1 day to learn
2. 焊缝美观, 速度快、无焊痕变色, 无需后期打磨
Beautiful weld seam, fast, no discoloration of weld marks, no need to polish later
3. 带送丝和摆动功能, 对焊接工件的精度要求低
With wire feeding and swinging function, low precision requirement for welding workpiece
4. 独立分体水箱更易维护保养
Separate water tank for easy maintenance
5. 使用成本低, 整机功耗 5KW, 不需要特殊保护气就能达到很好的焊接效果
low cost of use, the machine power consumption 5KW, no special protective gas to achieve good welding
6. 重量轻、体积小、整机可快速移动, 户外工作也没问题
light weight, small size, the whole machine can be quickly moved, outdoor work acceptable
7. 安全锁触碰出光, 无电离辐射更安全
Safety lock touch out of light, no ionizing radiation more safer
8. 完美取代传统氩弧焊、电焊在薄板不锈钢板、铁板、铝板等金属材料方面焊接
Perfectly replace the traditional argon arc welding, welding in the thin stainless steel plate, iron, aluminum and other metal materials welding
9. 可以对薄板进行手持切割
Can be handheld cutting of thin plates

Onew Metal Megrez - δ 100s 设备结构介绍:

1. 该手持激光焊接机配备自动摆动手持焊枪, 激光光纤长度 8 米, 极大的活动空间。The handheld laser welding machine is equipped with an automatic oscillating handheld welding gun and a laser fiber length of 8 meters, which provides great space for movement.
2. 人性化的控制系统界面, 触摸屏操作, 极易上手。Humanized control system interface, touch screen operation, easy to get started

带摆动功能手持焊枪 (可配置送丝功能)

Hand-held torch with oscillating function
(Wire feeding function optional)

8米激光传输光纤

Laser transmission fiber length 8 m

人性化操作界面

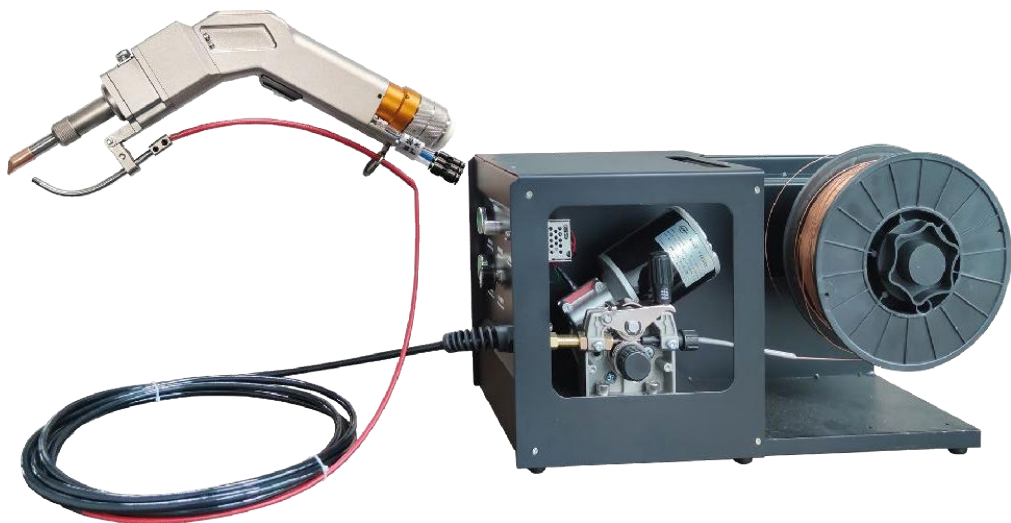
Humanized operation interface



3. 内置高性能激光发生器. Built-in high-performance laser generator
4. 分体式独立冷水机，方便检查维修. Separate independent chiller, easy to check and repair



5. 手持激光焊枪可配送丝机，提高拼缝焊接强度。Handheld laser torch can be distributed to the wire machine to improve the strength of the spar welding



6. 我公司光纤激光切割机均采用业界一流水平的锐科激光器，其性能稳定，关键部件使用寿命可达 10 万小时，设备整体质量得到安全保障。激光器可以产生卓越的光束质量，切割线条更精细，工作效率更高，加工质量更好。全封闭恒温激光器工作环境，更有效保证激光器的稳定工作。Our fiber laser cutting machines all adopt the industry's first-class Rekor laser, which has a stable performance and the service life of key components can reach 100,000 hours, and the overall quality of the equipment is safely guaranteed. The laser can produce excellent beam quality, finer cutting lines, higher efficiency and better processing quality. The fully enclosed constant temperature laser working environment ensures the stable working of the laser more effectively.



7. 设备采用汉威光纤手持摆动焊枪，该焊枪采用人体工程学的理念而设计，充分考虑焊接工艺的适用性以及长期使用的舒适度（重量 0.8kg），并且具备碰嘴接触工作出光的安全锁，防止误伤他人。采用抽屉式的保护镜片安装方式，方便客户自己进行维修。The equipment adopts Hanwei fiber optic handheld oscillating torch, which is designed with ergonomic concept, fully considering the applicability of the welding process and the comfort of long-term use (weight 0.8kg), and has a safety lock for touching the work light to prevent accidental injury to others. The drawer type protective lens installation is convenient for customers to carry out maintenance themselves.



Onew Metal Megrez - δ 100s 手持激光焊接机参数 Handheld laser welding machine parameters

LXLASER- δ 100s				
Type	Detail	1000W	1500W	2000W
焊接熔深 Welding depth	SSTEEL	2 mm	3 mm	4 mm
	Carbon steel	2 mm	3 mm	4 mm
	Galvanized sheet	2 mm	2.5 mm	3 mm
	Aluminium	1.5 mm	2 mm	2.5 mm
	Brass	1.5 mm	2 mm	2.5 mm
Machine size	L*W*H	1098*750*1233	1098*750*1233	1098*750*1233
光纤总长度 fiber length	Customizable 15/20 Meters	10 Meters	10 Meters	10 Meters
Protective Gas	Argon / Nitrogen / Air	0.1-0.2MPA	0.1-0.2MPA	0.1-0.2MPA
Wire feeder	Material	Aluminium/Carbon steel/SSTEEL	Aluminium /Carbon steel/SSTEEL	Aluminium /Carbon steel/SSTEEL
	Wire diameter mm	0.8/1.0/1.2/1.6	0.8/1.0/1.2/1.6	0.8/1.0/1.2/1.6
Light spot diameter	Optional 2.5 mm	1.5 mm	1.5 mm	1.5 mm
machine power	KW	5	6.5	8

Onew Metal Megrez - δ100s 手持激光焊接机配置清单 Handheld laser welding machine configuration list

		NO.	NAME	BRAND	TYPE	QTY	
δ100s configuration list	Lasers	1	Fiber Laser	RUIKE	1500W/2000 W	1 Set	
	Welding head	2	Fiber laser welding head	WEIYE		1 Set	
	Control System	3	Fiber optic control system	ONEW METAL		1 Set	
	Cooling System	4	Water Chillers	HANLI		1 Set	
Equipment wear parts, special accessories list							
		NO.	NAME	Size	Unit	QTY	
List of consumable items		1	Optical Lenses	Specialized	Pieces	5	
Specialized accessories		2	Welding copper nozzle	Specialized	Pieces	5	

Onew Metal Megrez - δ100s 工艺对比分析 Comparative Process Analysis

几种不同焊接方式的对比分析				
Comparative				
Type		Traditional welding	Solids	δ100s
Welding quality	Heat input	big	small	small
	Workpiece deformation	big	small	small
	Welding seam forming	fish scale pattern	fish scale pattern	Smooth
	Aftercare	Grinding	Grinding	None
Operation	Welding speed	slow	middle	fast
	Difficulty of operation	big	small	small
Environmental Safety	Personal Hazards	big	small	small
	Environmental pollution	big	small	small
Cost of Use	Consumables	Welding rod	Laser crystals, xenon lamps	None
	Energy consumption	small	big	small
	Welder Requirements	High	Normal	small
	AREA	small	big	small

Onew Metal Megrez - δ 100s Handheld oscillating wire feed welding (fillet welding) parameter table

Handheld oscillating wire feed welding (fillet welding) parameter table								
Material	THK	Laser power	Focal length	Swing speed	Protective air pressure	Wire feeding speed	Connecti on method	Whether to penetrate
SSTEEL	1MM	600W	125	60%	0.1~0.2MP a	50%	fillet welding	Penetrating
SSTEEL	2MM	900W	125	50%	0.1~0.2MP a	35%	fillet welding	Non-penetrating
SSTEEL	3MM	1200 W	125	40%	0.1~0.2MP a	25%	fillet welding	Non-penetrating
SSTEEL	4MM	1500 W	125	40%	0.1~0.2MP a	25%	fillet welding	Non-penetrating
Carbon steel	1MM	750W	128	50%	0.1~0.2MP a	40%	fillet welding	Non-penetrating
Carbon steel	2MM	1000 W	128	40%	0.1~0.2MP a	30%	fillet welding	Non-penetrating
Carbon steel	3MM	1300 W	128	35%	0.1~0.2MP a	25%	fillet welding	Non-penetrating
Carbon steel	4MM	1500 W	128	35%	0.1~0.2MP a	25%	fillet welding	Non-penetrating
AL	1MM	850W	125	40%	0.1~0.2MP a	35%	fillet welding	Penetrating
AL	2MM	1200 W	125	35%	0.1~0.2MP a	25%	fillet welding	Non-penetrating
AL	3MM	1500 W	125	35%	0.1~0.2MP a	25%	fillet welding	Non-penetrating

Onew Metal Megrez - δ 100s Handheld oscillating welding (fillet welding) parameter table

Handheld oscillating welding (fillet welding) parameter table							
Material	THK	Laser power	Focal length	Swing speed	Protective air pressure	Connection method	Whether to penetrate
SSTEEL	1MM	500W	123	60%	0.1~0.2MPa	fillet welding	Penetrating
SSTEEL	2MM	800W	123	50%	0.1~0.2MPa	fillet welding	Non-penetrating
SSTEEL	3MM	1200W	123	40%	0.1~0.2MPa	fillet welding	Non-penetrating
SSTEEL	4MM	1500W	123	30%	0.1~0.2MPa	fillet welding	Non-penetrating
Carbon steel	1MM	450W	128	50%	0.1~0.2MPa	fillet welding	Non-penetrating
Carbon steel	2MM	900W	128	50%	0.1~0.2MPa	fillet welding	Non-penetrating
Carbon steel	3MM	1500W	128	50%	0.1~0.2MPa	fillet welding	Non-penetrating
AL	1MM	600W	125	60%	0.1~0.2MPa	fillet welding	Penetrating
AL	2MM	1000W	125	50%	0.1~0.2MPa	fillet welding	Non-penetrating
AL	3MM	1500W	125	50%	0.1~0.2MPa	fillet welding	Non-penetrating
BRASS	1MM	800W	126	40%	0.1~0.2MPa	fillet welding	Penetrating

Onew Metal Megrez - δ 100s Hand-held oscillating wire feed welding (Spell welding) parameter table

Hand-held oscillating wire feed welding (Spell welding) parameter table								
Material	THK	Laser power	Focal length	Swing speed	Protective air pressure	Wire feeding speed	Connection method	Whether to penetrate
SSTEEL	1MM	800W	125	40%	0.1~0.2MPa	50%	Spell welding	Penetrating
SSTEEL	2MM	1000W	125	40%	0.1~0.2MPa	30%	Spell welding	Penetrating
SSTEEL	3MM	1500W	125	40%	0.1~0.2MPa	25%	Spell welding	Penetrating
Carbon steel	1MM	700W	128	40%	0.1~0.2MPa	40%	Spell welding	Penetrating
Carbon steel	2MM	1000W	128	40%	0.1~0.2MPa	30%	Spell welding	Penetrating
Carbon steel	3MM	1500W	128	40%	0.1~0.2MPa	25%	Spell welding	Penetrating
AL	1MM	800W	127	40%	0.1~0.2MPa	40%	Spell welding	Penetrating
AL	2MM	1000W	127	40%	0.1~0.2MPa	25%	Spell welding	Penetrating
AL	3MM	1500W	127	40%	0.1~0.2MPa	25%	Spell welding	Penetrating

Onew Metal Megrez - δ 100s Handheld spell welding (Spell welding) parameter table

Handheld spell welding (Spell welding) parameter table							
Material	THK	Laser power	Focal length	Swing speed	Protective air pressure	Connection method	Whether to penetrate
SSTEEL	1MM	600W	125	50%	0.1~0.2MPa	Spell welding	Penetrating
SSTEEL	2MM	1000W	125	40%	0.1~0.2MPa	Spell welding	Penetrating
SSTEEL	3MM	1500W	125	40%	0.1~0.2MPa	Spell welding	Penetrating
Carbon steel	1MM	800W	128	45%	0.1~0.2MPa	Spell welding	Penetrating
Carbon steel	2MM	1200W	128	30%	0.1~0.2MPa	Spell welding	Penetrating
Carbon steel	3MM	1500W	128	30%	0.1~0.2MPa	Spell welding	Non-penetrating
AL	1MM	550W	126	50%	0.1~0.2MPa	Spell welding	Penetrating
AL	2MM	1000W	126	40%	0.1~0.2MPa	Spell welding	Penetrating
AL	3MM	1500W	126	40%	0.1~0.2MPa	Spell welding	Non-penetrating
BRASS	1MM	900W	126	50%	0.1~0.2MPa	Spell welding	Penetrating
Purple Copper	1MM	1500W	125	50%	0.1~0.2MPa	Spell welding	Penetrating

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