

YAG Laser Overlay & Welding Device

TechnoCoat Laser



STL-150 Specification						
Beam Source	Nd: YAG	Laser Head Movable Stroke		X (Electromotion) :145mm Y (Electromotion) :1100mm Z (Electromotion) :505mm		
Wavelength	1064nm	Table Movable Stroke		Turn Around : ± 45° X :130mm Y :85mm		
Laser Power	150W	Table Load Capacity		Z (Electromotion) :150mm 30kg		
Pulse Energy	100Joules	Size	Main Unit Include Laser Head Main Unit Box	W550 × L1400 × H1270mm W550 × L830 × H620mm		
Pulse Width	0.1~20ms(0.1ms Step)		Laser Head Fume Collector	W110 × L1100 × H140mm W420 × L240 × H460mm		
Pulse Frequency	1.0~200Hz(0.1Hz Step)		Chiller Work Table Table Board	1.5P W420 × L580 × H730mm W410 × L510 × H635mm W350 × L450mm		
Spot Diameter	Ф 0.15~2.0 mm	Weight	Main Unit & Laser Head Fume Collector (Optional)	150kg 14kg		
Electrical Supply	3 Phases AC 380V 50HZ Single Phase 220V 50HZ		Chiller Work Table	60kg 45kg		

[Image of Max Stroke]



- Straight Wires:
- Better Handling
- Less Loss
- Tip Color to Avoid Mixing

Overlay / Welding Wire

e certain, it estatus greater						
Material (Size: φ0.1~0.5mm)						
SKD-61	Maraging Steel	BeCu				
NAK-80	Stainless	Al				
Cr-Mo Steel	SKD-11	Ti Alloy				
13 Cr Steel	SKH-51	Others				

Please Contact for the Wire different Material and Size

Various Jigs















■ Laser Safety Caution

Our laser repairing welder belongs to class 4 laser product. In order to prevent laser damage, we have take the safety measures by relevant provisions during the manufacturing process. When using the laser, we remind you to implement the safety management about laser class. In order to understand the content about safety and caution of laser, if necessary, we will provide you training on safety and expertise

E-mail (Japan): inquiry@technocoat.co.jp

■ TechnoCoat International Co.,Ltd. 1458–3Kariyado, Fujieda–shi, Shizuoka, Japan ∓426–0001 TEL:+81-54-6461724 FAX:+81-54-6461720

E-mail (China): cnsy007@hotmail.com

■ Technocoat ShangHai Co., Ltd

Room 1304, XuHuiJingDian, No. 2281, ZhongShan West Road, XuHui, ShangHai Zip 200235 TEL: 021-6469-5240 FAX: 021-6469-5247

Copyright 2017.02 TechnoCoat All Right Reserved ver.4

TechnoCoat Laser

||| STL-150 ||||

YAG Laser Overlay & Welding Device Precision Repair for Molds & Dies



Low Cost / High Performance



TechnoCoat® Technocoat Shanghai Co., Ltd.

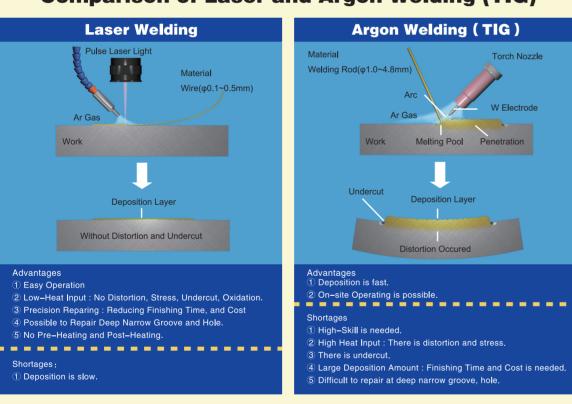
http://www.technocoat.co.jp



《Advantages of TechnoCoat Laser》

- Operation is easy. high skill is not needed.
- Heat input is low. There is no distortion, undercut, stress and pinhole occured.
- Wire is melt completely into the base material, strength is very high.
- With Ar gas protection, there is no oxidation occured on the welding point.
- Possible to weld at bottom, inner wall, inside corner of deep narrow grooves and hole.
- Possible to weld accurately with a few deposition. Finishing time and cost is reduced.
- There is no nessesary to pre-heat and post-heat comparing with TIG welding.
- Possible to weld wire to same material. No hardness changed, etch treatment is possible.
- Possible to weld dissimilar metals.
- Possible to weld almost metal, steel, Al, Cu, Ti, SUS, Au, etc.

Comparison of Laser and Argon Welding (TIG)



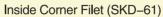
Application of TechnoCoat Laser

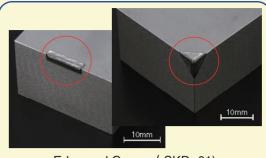
Mold : Reparing Mold of Plastics, Rubber, Die-Casting. Mechanical Part : Reparing Wearing, Scuffing of Mechanical Parts. Welding Damege : Reparing the Undercut or Pinhole made by TIG. • Precision Part : Welding Electric Component, Sensor, Connector. Dissimilar Metal : Welding Between Dissimilar Metals. Sheet Metal : Welding Thin Metal Plate like Stainless. • Surface Treatment: Partial Repairing at the position of Thermal Spray, Plating, TD treatment etc.

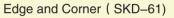
Sample of Welding and Reparing

Best Reparing Method for Precision Mold

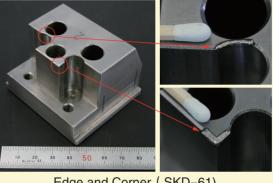


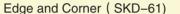








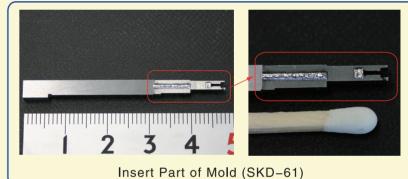






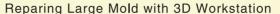
Bottom Face and Round Edge (NAK-80)

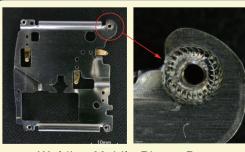




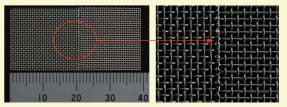
High Precision & Quality Welding without Distortion, Undercut, Pinhole comes true







Welding Mobile Phone Parts



Welding Metal Net of dia. 0.5mm (SUS)



Welding Al Battery Case (Al, Thikness: 0.5mm)