



PENTA LASER



## SWAN Hand-held Fiber Laser Welding

Penta Laser (wenzhou) co., ltd



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# SWAN Series Laser Welding



## Portable Mainframe :

- Laser source and chiller are integrated in one machine, easy to move
- Special design to isolate the heat to ensure the working environment of laser source
- Easy to maintenance

## Welding database :

- 30+ years laser welding experience
- Source from aerospace, metro, locomotive etc.
- Material: carbon steel, stainless steel, aluminum etc.

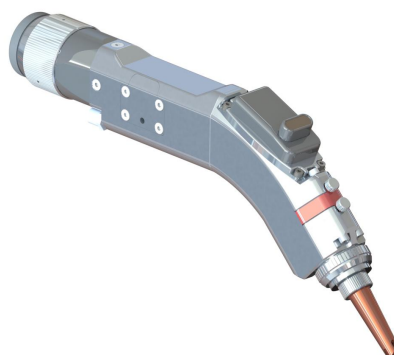
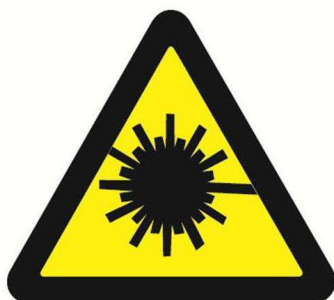


Caution : must wear protection glasses and suits when operating, please operate in the laser IP grade room with no one else



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### Human protection :

- Multiple start button
- Standard glasses and glove

### Handy welding head :

- Ergonomic optimization
- Light and handy
- Suitable for different type nozzle

## Specification

Model	HS-500	HS-1000	HS-1500	HS-2000	HW-500	HW-1000	HW-1500	HW-2000
Power	500W	1000W	1500W	2000W	500W	1000W	1500W	2000W
Power adjust	10%-100%							
Core diameter	100μm				25μm			
Length	10m							
Welding head	Single head				Swing head			
Voltage	220V±10%							
Working temperature	10-40°C							

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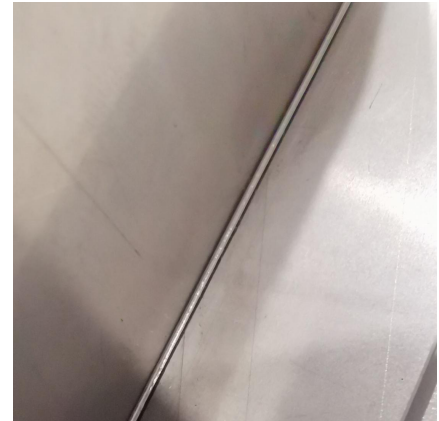


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# Laser Welding Advantages

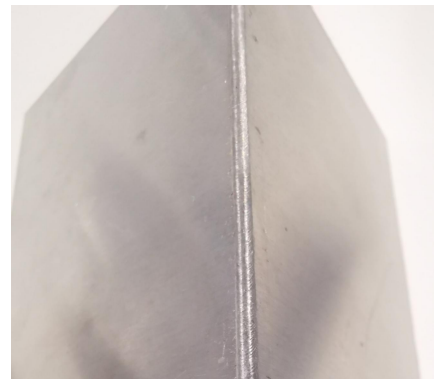
## Higher Quality :

- Material welded by self-melting, no base material needed;
- Deeper penetration and stronger welding strength;
- Welding surface is bright and smooth, no need polishing;
- Less thermal deformation



## Higher Efficiency :

- Efficiency improved several times than MIG

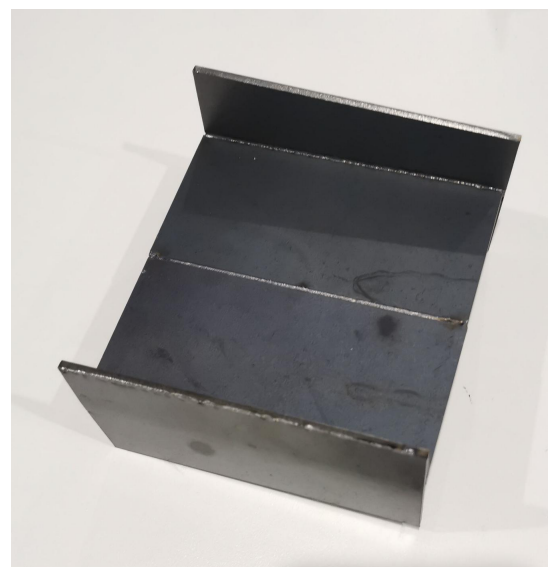


## More flexible :

- Different materials welding: carbon steel, stainless steel, aluminum etc.
- Different welding type: Butt joint, lap joint, corner joint, flanging joint

## Environment Friendly :

- Less smoke when welding



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