

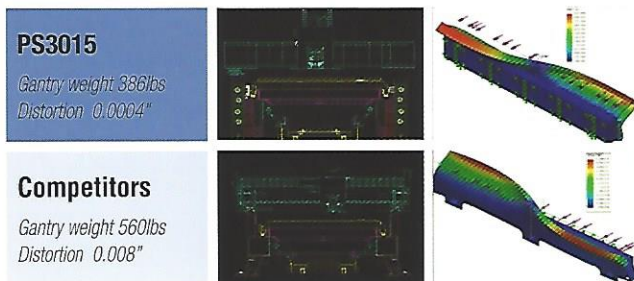
PS3015 FIBER



Fully upgraded ultra-high speed PS3015-4KW/6KW fiber laser cutting system armed with advanced performance features: Zooming head, Air-cutting package and SMART-CUT technology. Both ends of the cutting spectrum are taken care of with thick plate cutting, utilizing a wider sweet spot, and sheet metal cutting with ultra high cutting speed.

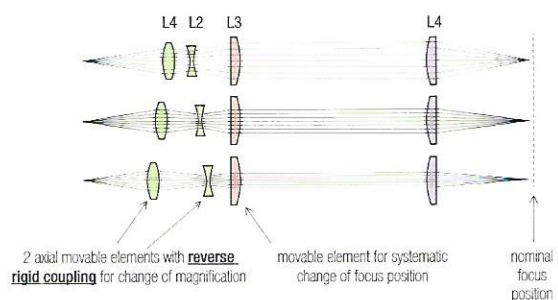
INNOVATIVE DESIGN OF THE PS FLYING-OPTICS MACHINE STRUCTURE

- The base frame is fully re-designed to enhance the mechanical durability for high-speed motion.
- The cutting bridge has ultra-high stiffness and shows 20x less distortion than other competitors' frames under ultra high-speed motion.
- Weight is 25% lighter than aluminum casting structure from other competitors.

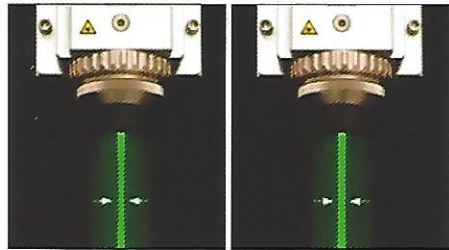


HK ZOOM HEAD FOR SPOT SIZE MAGNIFICATION

- Automatic spot size variable from small spot size to big spot size.
- Automatic programmable change for focus position.
- Zoom head provides much wider sweet-spot for optimal cutting when cutting thick plates of mild steel or Stainless steel.
- No need to change the lens cartridge which eliminates the risk of fatal contamination issues at the cutting head.

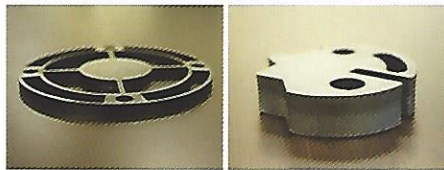


INCREASE CUT SPEED AT THIN GAUGES AND MAX THICKNESS OF CARBON AND STAINLESS STEEL

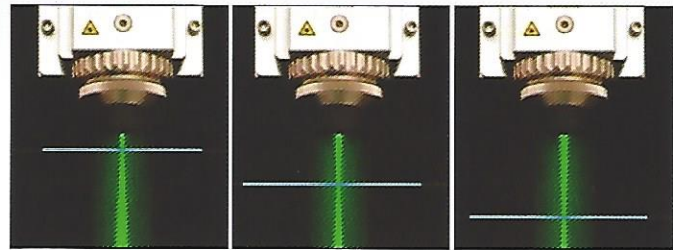


Small spot for thin material

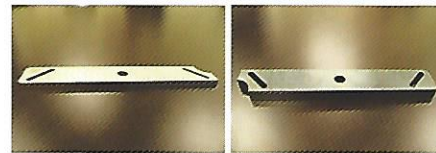
Big spot for thick plate



Spot size variable from small to big to enable cutting thin gauge sheets like 20ga up to 3000ipm. Able to cut thick plates up to 1.0" mild steel and 3/4" Stainless.



Change automatic focus position



Focus position is automatically adjusted by program when material is changed. E.g. Usually, focus point is on top of the surface for mild steel and middle of thickness when cutting stainless.

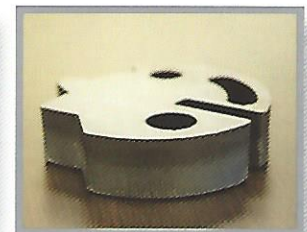
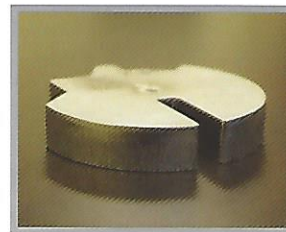
AIR-CUTTING PACKAGE

- 3rd air-port line for shop air in addition to current Oxygen and Nitrogen lines.
- Field-proven air-cutting Database ready for use.
- Cutting speed as fast as Nitrogen cutting.
- Used for Carbon steel up to 0.160", Stainless up to 0.250" and Aluminum up to 0.130" for 4kw fiber.
- Turnkey package for 3rd party HP air-booster and filtration system (optional).

ITEM		4KW	
Material	Thk (inch)	Feed Rate	Gas
Mild Steel	0.036	1950	AIR
	0.060	1200	AIR
	0.120	450	AIR
	0.160	190	AIR
Stainless	0.036	1900	AIR
	0.060	1150	AIR
	0.135	315	AIR
	0.250	130	AIR

SMART-CUT TECHNOLOGY

- Thanks to the newly developed unique nozzle system, zoom cutting head technology and special DB, the PS3015-fiber creates a clean cut for 3/4" mild steel and 5/8" Stainless steel.
- Smooth cut quality that rivals or surpasses CO2 lasers.



CLIMATE-CONTROLLED CABINET FOR RESONATOR AND CONTROLLER:

- By putting the resonator and the electrical controller into one single climate-controlled enclosure, machine operation is extremely stable and durable under tough environments, i.e. high/cold temperature, high humidity and unclean shop environment.

TECHNICAL SPECIFICATIONS

Items	Specifications	Remarks
Model	PS3015-4kw/6kw Fiber	Fiber source: IPG Photonics
Max cutting size	120" x 60"	
Positioning speed	5500 IPM	X and Y axis combined
Acceleration	1.5G	
Accuracy	+/-0.0039"	Over 120" travel
Repeatability	0.001"	
Controller	Siemens SINUMERIK 840D	
Monitor	15" Touch Flat Panel	
Cutting Head	Zooming Head	
Operation system	Window 7	
HDD	80GB SSD	
Data communication	USB, Ethernet LAN	
Fiber Laser	YLS Cut Type	
Electric Consumption	4kw Fiber system: 37KW 6kw Fiber system: 61KW	

