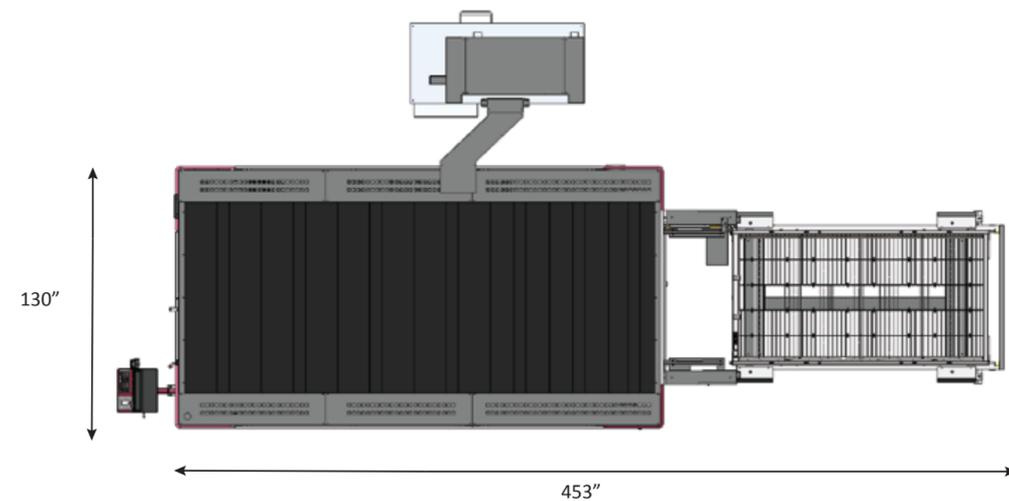




Items	Specifications	Remarks
Model	FALCON-plus III	
Laser power	2.5kw, 3kw, 4kw, 6kw, 8kw, 10kw	Corona Technology for 4-10kw
Max cutting size	160" x 60"	
Positioning speed	4500 IPM	X and Y axis combined
Positioning accuracy	+/-0.0039" over 120" travel	
Monitor	21" Touch Flat Touch Screen	
Cutting Head	Autofocus fiberCut head	
Head sensing	Non-contact capacitive sensing	
Focal Length	200mm F.L.	150mm FL for 2.5kw, 3kw
Assist gas port	Two(2) – Oxygen, HP Nitrogen	
Data communication	USB, Ethernet LAN	
Machine weight	34,000 lbs	
Electric Consumption	38KVA	For 4kw fiber incl. Dust collector



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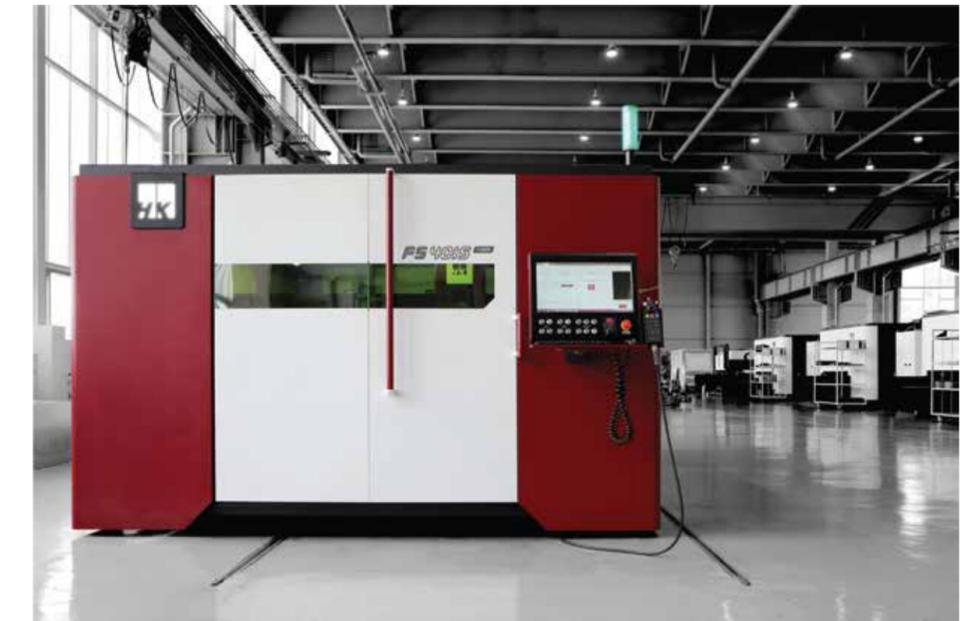
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Distributor



## FALCON-plus III

Fiber Laser with 3ft extra



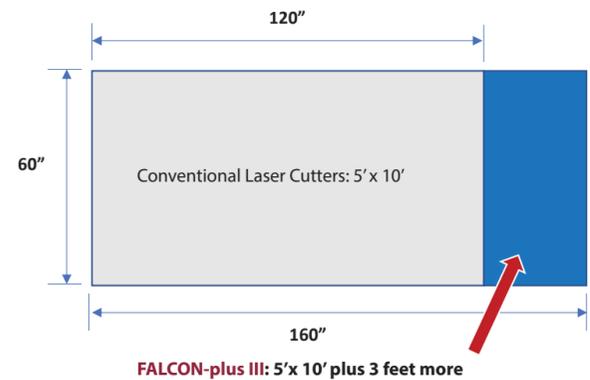
## Enhance your cutting capability up to 60" x 160" sheet size

### The benefit of 10ft plus 3ft for sheet metal fabricators

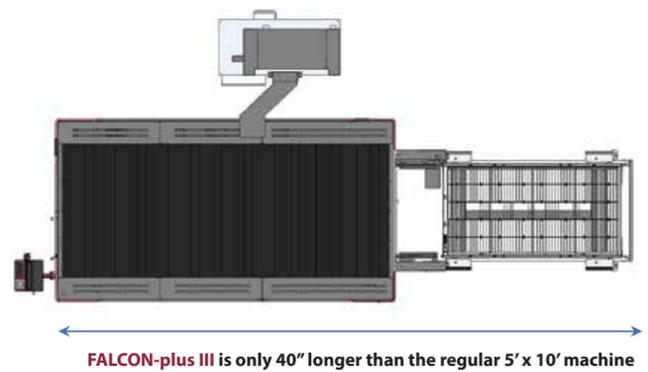
#1) When it comes to manufacturing, efficiency is the key to success. One of the many ways to be efficient in the production process is material utilization. It is crucial to use up as much sheet material as possible and minimize the amount of scrap. For most cases, the larger the sheet size, the more efficient the material utilization is. Listed below are standard sheet metal sizes provided in U.S. It is reported that the material utilization for a 60"x144" sheet is approximately 10% higher than 60"x120" size sheet or smaller.

36 x 96, 36 x 120, 36 x 144, 48 x 96, 48 x 120, 48 x 144, 60 x 120, 60 x 144, 60 x 160

#2) When it comes for the need to acquire an oversize laser machine in order to cut oversized parts, the main demand is not for expanded width, but for the length, which is mostly up to 144 inches. It is no longer necessary to acquire an oversize massive laser machine (ex. 4020 model) just to cut longer parts.



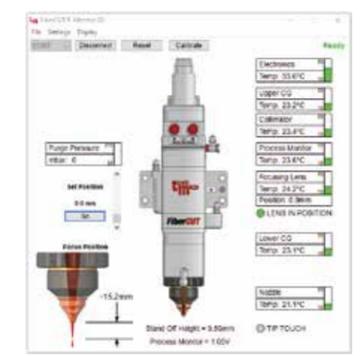
**FALCON-plus III is the new fiber laser cutting system based on the best-selling FALCON platform. It provides 60" x 160" full cutting envelop to enable to cut up to 160 inches-long parts. Thanks to genius reengineering, the overall length of the machine is only 40" longer than the regular 5'x10' fiber laser system**



Multi-zone auto duct damper system at the table to maximize extracting fume and particles.

### Auto Focus Cutting Head\*\*

- Process monitoring system to monitor the temperatures of all optics, nozzle and electronics at the cutting head
- Perfect sealing between motorized linear guide and optics chamber to prevent any possible contamination
- Upper protective window to the collimator, minimizing the risk of contamination of the collimator
- Easy beam centering check by potable beam center camera



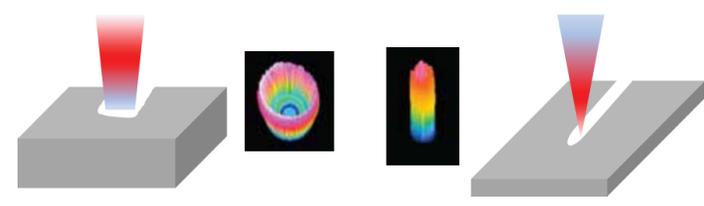
### HK Controller

- High speed controller with Window-based 64MB RAM and high capacity SSD hard disk drive
- 21" flat touch screen with user-friendly intuitive HMI design
- Data communication by USB or Ethernet LAN
- Built-in cutting database library for various materials
- Easy access to check up the status for laser resonator and cutting head



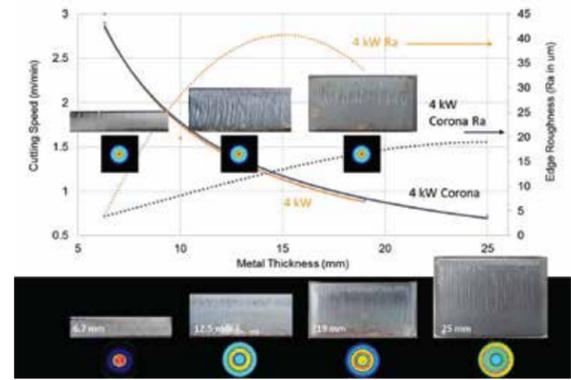
### Beam shaping Technology\*\*

- Unlike the conventional beam size variation at the cutting head by using extra zoom lenses, HK's revolutionary solution for beam shaping is that the mode and profile of the fiber laser beam is variable at the laser resonator. This technology eliminates the demand to have a complicated cutting head design for beam shaping.
- The diameter of laser beam from 0.125mm to 0.350mm
- No motorized zoom optics at the cutting head
- No free-space optics coupling at the beam delivery cable
- 100% power available from a single laser source



CO2 profile for thick plate processing

Fine beam optimized for thin metal



\*\* only for 4kw to 10kw Corona technology