

ONELASER Hydra: " Unleash The Fury Of A Hydra "

🔗 Innovative Laser Technology

OneTouch+™ Control

Intuitive OneLaser plus version control panel for precise operation movement, real-time adjustments, and instant status updates.

FumeGuard™

Industrial first fumewatch system engineered to control harmful fumes, protecting your home, children and pets.

See Clearly, Create Precisely

With a high-precision 5MP camera capturing every detail— grab contours, and position with pinpoint alignment made easy.

ONELASER Multiple Power Sources

Hydra combines two lasers into one machine, forces of RF Metal (38w-75w) and glass tube (80w-150w) to redefine what a laser can be.

Modular Upgrade Hybrid System™

The MUHS™ System (Designed in the US) lets you modularly upgrade your laser options anytime and run them together seamlessly. OneLaser grows with your business, adapting to every stage of success.

Speed Is King

Maximize productivity with high-speed engraving— True 3G Acceleration (29,430mm/s²) up to 1200mm/s (RF Tube) on all Hydra series. The OneLaser solution to take your efficiency and creativity into the next level.

Hassle-Free Alignment

Our machine delivers accuracy with minimal need for beam alignment thanks to our industry-leading engineering of frame structure, offering stability and performance.

Adjustable Airflow

Say goodbye to smoke and burn marks with our adjustable airflow for cleaner, sharper cuts—maximize laser efficiency, safety, and material versatility.

3D Photorealistic

0.05mm unmatched accuracy of 3D Photorealistic with long lasting 30,000+ hours of RF metal tube performance.

On The Level

The built-in leveling gauge keeps your laser perfectly level, streamlining setup and accuracy.

When Things Heat Up, We Cool Down

Our system alerts you instantly when temperatures rise, ensuring safety by stopping the laser firing before any damage is done. Protection and precision with peace of mind.

XFocus™ Laser Head

Our laser head boasts an integrated sensing technology that achieves industry-level autofocus, simplifying your work flow.

Red Dot Enabled

Achieve precision with confidence every time with red dot laser positioning—safe, reliable, and eliminates misalignment.

Right Size For Every Creative

With four bed sizes ranging from 700mm x 500mm to 1600mm x 1000mm, the Hydra Cabinet Co2 is designed to accommodate any project size you need.



Advantages of the RF

Delivering the finest engravings with intricate detail up to 2000 DPI (RF Tube), ensuring each design is rendered with exceptional clarity and craftsmanship. Instantly see the ROI with the RF tube, offering 5x the durability of standard CO2 glass tubes—no water chiller required.

QuickSwitch™ Lenses

Effortlessly swap focus lenses with no tools needed. Fast, easy and accessible for everyone.

Robust Product Quality

WiFi Connectivity

Seamlessly connect from anywhere. Operate, adjust, and monitor equipment remotely, maximizing flexibility and efficiency with every move.

Fixed Right

Deep locking pins prevent honeycomb plate drift, ensuring consistent accuracy.

Flawless Z-Motion

Synchronized belt system guarantees smooth, reliable performance of your Z-Bed, even after years of use.

Reach New Depths

With a 230mm z-axis, best in its class.

Go Big Or Go Home

Industry leading 38.1mm pass-through door design handles oversized materials effortlessly, create without constraints.

Next-Level Reliability

Cutting-edge circuitry and structural engineering for unmatched durability in the harshest conditions.

Fully Enclosed

Fully enclosed working area plus isolated internal circuit design shields against dust, ensuring safety, boosting overall stability, and minimizing any post-maintenance.

User-friendly Operation Experience



High Memory Capacity

1GB memory supports complex graphics and stores countless files, making it easy to repeat tasks and streamline your workflow.

Sealed For Safety

Our safety interlock prevents operation unless the lid is fully secured, guaranteeing safe use every time.

No Door Too Small

Our machine can be disassembled for effortless entry into any doorway up to 31" width after E-stop on the top is detached.

Effortless Debris Collection

Easy "pull-to-clean" drawer keeps your workspace spotless with minimal effort.

Panoramic Visibility

Our expansive viewing panel allows you to effortlessly navigate each phase of your project, streamlining your workflow.

From Novice To Master

From learning the basics to mastering your craft, this machine is adaptable to all skill levels.

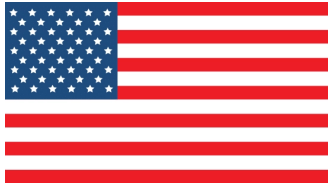
Software

Lightburn / RDWorks / LaserMaker compatible with most supported formats: AI, PDF, SC, DXF, HPGL, PLT, RD, SCPRO2, SVG, LBRN, BMP, JPG, JPEG, PNG, GIF, TIF, TIFF, TGA.

"One" Support

OneLaser's US engineering team proudly provides lifetime support with industry leading response times.

ONELASER Hydra Specs



Designed & Engineered in USA



Model	Hydra 7	Hydra 9	Hydra 13	Hydra 16
MEASUREMENTS				
Workspace Area	700 x 500mm	900 x 600mm	1300 x 900mm	1600 x 1000mm
Machine Weight	175kg	311kg	431kg	471kg
Machine Dimensions (LxWxH)	1300 x 1045 x 1035mm	1500 x 1145 x 1035mm	1900 x 1145 x 1035mm	2200 x 1550 x 1100mm
Exhaust Diameter	150mm	150mm	200mm	200mm
Max Hold Weight	20kg	40kg	30kg	30kg
PERFORMANCE				
Laser Source (Glass Tube)	80W	100W	130W	150W
Dual Source Add-On (RF Tube)	38W/75W	38W/75W	38W/75W	38W/75W
Laser Dot Size	CO2 (0.25mm), RF (0.05mm)			
Cooling Method	Water Cool for Glass Tube, Air Cool for RF Tube			
Max Acceleration	3G (29,430mm/s ²)	3G (29,430mm/s ²)	3G (29,430mm/s ²)	3G (29,430mm/s ²)
Max Engraving Speed	CO2 (800mm/s), RF (1200mm/s)			
Positioning Accuracy	<=0.01mm	<=0.01mm	<=0.01mm	<=0.01mm
Z-Depth	230mm	230mm	230mm	230mm
FEATURES				
3D Photorealistic Engraving (RF)	Upgradable	Upgradable	Upgradable	Upgradable
FumeGuard™	√	√	√	√
XFocus™	√	√	√	√
QuickSwitch™	√	√	√	√
OneTouch+™ Control Panel	√	√	√	√
WiFi Connectivity	√	√	√	√
Red Dot Positioning	√	√	√	√
Open Door Protection	√	√	√	√
Air Assist Intake	√	√	√	√
Honeycomb Table	Included	Included	Included	Included
Hassle-Free Alignment	√	√	√	√
High Precision 5MP Camera	√	√	√	√
Pass-Through	38.1mm pass-through	38.1mm pass-through	38.1mm pass-through	38.1mm pass-through