

★ **FIBER LASER** ★

Want to cut 3.7x faster?

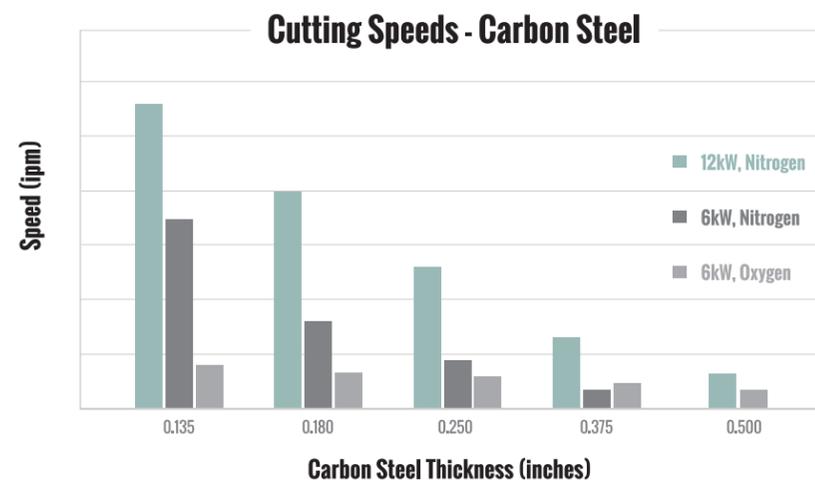
★ **12kW** ★

For years, shops cutting a variety of materials and heavy thicknesses have been burdened with multiple machines, costly processes, and crews of operators. And those without in-house capabilities have been at the mercy of supplier timelines.

Whitney has been on a quest to solve these challenges for decades. In the 1970's, we introduced our legendary punch-plasma combination machine to shorten cycle times on thick parts needing multiple processes. In 1998, we launched game-changing 6kW CO2 laser technology to the market.

Now we've brought the world's first 12kW fiber laser into production, promising high-speed, cost-effective thick plate cutting up to 3.7x faster than 6kW fiber.

12kW OUTPACES 6kW FOR THICK PLATES



**PRODUCE MORE WITH FEWER MACHINES, FEWER OPERATORS,
AND A MORE EFFICIENT PLANT DESIGN**





5

BARRIER-BLASTING ADVANTAGES

Whitney lasers are packed with exclusive technology to blow your current production speeds out of the water

1 HEAVY-DUTY CUTTING HEAD

Whitney's direct water-cooled reflective optics (mirrors) are immune to reasonable amounts of contamination—even at 12 kilowatts of power—unlike passively cooled transmissive optics (lenses) which fail at high power with even the smallest contaminants. This is breaking a technology barrier—making cutting heads withstand much higher powers of fiber laser than ever before.

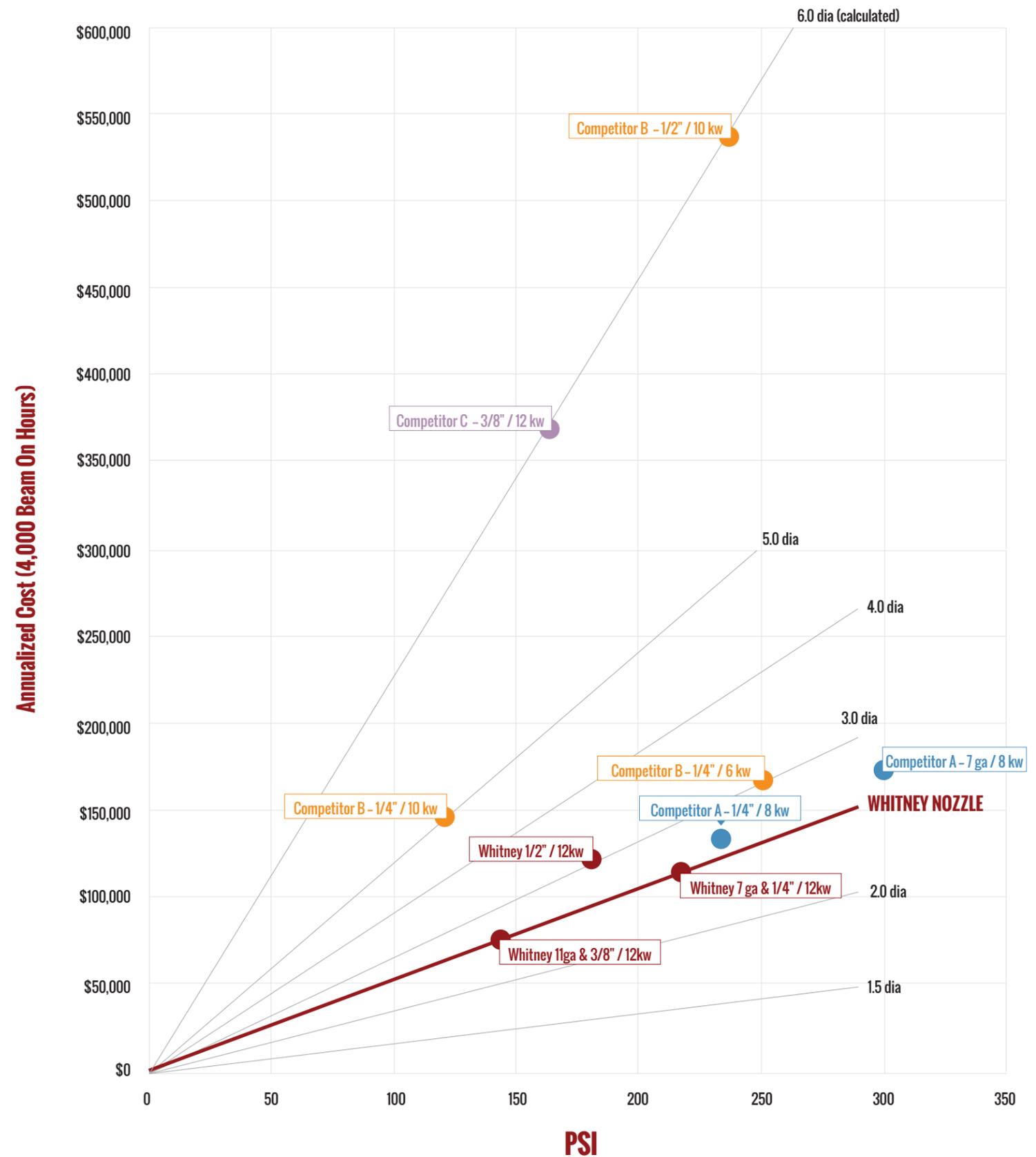
2 AFFORDABLE CUTTING WITH NITROGEN

Historically, the smooth, non-oxidized edge from nitrogen-assisted cutting was cost-prohibitive for thick plates because of the volume of gas needed. With our new proprietary cutting gas flow method, we've significantly reduced the amount of gas required - and exponentially lowered costs.

In fact, compared to two major competitors, a typical two-shift Whitney laser user will save a minimum \$50k per year on nitrogen when cutting thinner material, and as much as several hundred thousand dollars when cutting half inch plate.

Whitney Cuts Nitrogen Costs Significantly

SCFH Based on Nozzle and Pressure



3 A BETTER BRAIN

Only Whitney builds decades of laser process knowledge right into the CNC control's Material Parameter Library (MPL), vastly simplifying your program code for lead-in steps, piercing steps, holes, or complex cornering geometries. It automatically looks ahead to adjust parameters like speed, power, and focus position to achieve great cut quality with any grade or geometry you throw its way.

Change from one material type or thickness simply by changing the MPL reference. And you don't have to worry about consistency from programmer to programmer, as there are no separate parameter databases on different work stations.



4 FASTER CYCLES WITH RAPID-PIERCE

With a unique combination of optics and parameter control, Rapid-Pierce is the world's fastest controlled piercing cycle for steel plate. With small pierce holes and low heat input to the work piece, even small holes in thick steel can be cut immediately after piercing while maintaining a high quality cut.

5 HIGH-TECH CONSTRUCTION

Our advanced bridge construction is both strong and lightweight, optimized for maximum acceleration. Our robust polymer granite base provides ultimate stability and accuracy as a machine base.



**WORLD'S FASTEST
PALLET CHANGE
12 SECONDS FLAT**

Smooth Edges. Fast Cutting. A Price You Will Love. PIRANHA L-SERIES FIBER LASERS

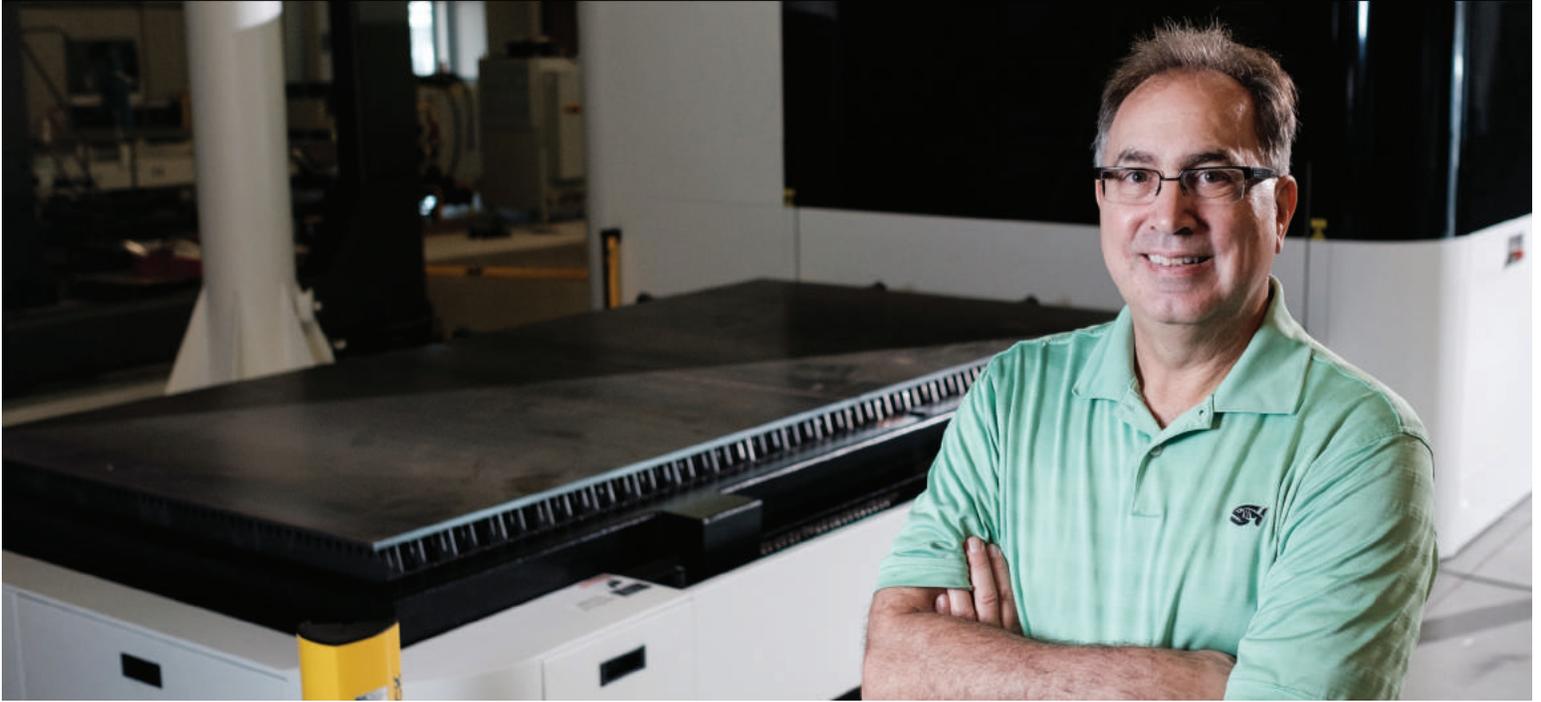


Piranha's L-Series lasers are breaking the price barrier to make fiber laser cutting much more affordable than ever before. If you're a small job shop or manufacturer who doesn't have two shifts of laser work, these lasers can significantly increase your productivity without breaking the bank. Piranha low power lasers come complete with a dust collector and programming system.



	L-Series PlateLASER 1530	PlateLASER 1530	PlateLASER 3060
Power Options	1kW, 1.5kW, 2kW	4kW, 6kW, 12kW	4kW, 6kW, 12kW
Drive Type	Rack & Pinion	Linear Motor (4kW, 6kW, 12kW)	Linear Motor
Working Area - Maximum	1.5 X 3.0 m 60 X 120 in	1.5 X 3.0 m 60 X 120 in	3.1 x 6.2 m 122 x 244 in
Approximate system footprint	4.4 X 10.7 m 14.4 X 35.2 ft	4.4 X 10.7 m 14.4 X 35.2 ft	7.6 x 17.1 m 24.8 x 56 ft
Positioning speed – X axis and Y axis	80 m/min 3,150 IPM	190 m/min 7,480 IPM	130 m/min 5118 IPM
Repeatability	0.10 +/- mm 0.004 +/- inch	0.05 +/- mm 0.002 +/- inch	0.05 +/- mm 0.002 +/- in

THE HUMAN FACTOR: IT ALL ADDS UP



YOU GET THE RIGHT MACHINE.

As a full-line maker of laser, punch plasma combination, and plasma machines, we can advise you objectively which type of equipment best meets your needs. Whether you're cutting, bending, or punching, our productivity engineers study your situation to pinpoint the most effective equipment, specs and processes. Then we test your scenario on a variety of equipment to find the best solution. If that solution involves laser cutting, Whitney and Piranha lasers offer a wide choice of cutting speeds, laser power levels and table sizes to meet every customer's specific requirements.

FAST INSTALLATION.

We get you up and running in days-not weeks.

INTUITIVE AND EASY TO USE.

Your operators become efficient quickly thanks to our state-of-the-art, user-friendly controls.

PARTS, SERVICE AND SUPPORT.

Whitney and Piranha lasers are made and supported in Canada, USA and México, so you can expect fast parts and service. All backed by our customer promise to provide quality and service that keeps your business up and running.

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