Kommentteja heijastavien metallien leikkuusta yhdeltä suurimmista kuitulaser End user-foorumilta. Ryhmässä on yli 25 tuhatta jäsentä ympäri maailman. Tässä ylläpitäjän Gary Ramseyn kommentteja heijastavien metallien leikkuusta eri laserlähteillä.

GARY RAMSEY – 30 heinäkuuta 2022

This topic comes up regularly, and I recently responded to someone with a more elaborate answer, so I am posting separately so I can pin in the announcements and refer to it later.

1. I am not a dealer for nLight, I sell machines with MAX, Raycus, IPG, and nLight. I often recommend nLight to customers that plan to cut exclusively aluminum or other reflective materials because they have a great solution for that. In the end, I dont care which power source my customers select, I am not incented to sell one over the other. Only what will best serve the customer in the long run, so that is the source of my recommendations.

2. nLight sources have onsite support, with techs located all around the US.

3. IPG, only certain models are eligible for onsite support, all the 3kw and smaller units bought in china are mail in for repair only, so if you have this model, and didnt buy your machine from a US dealer that has backup spare sources, you will be down for a while. Power sources and chillers are very difficult to air freight, and usually take 2-3 weeks or longer due to FDA cert and freon in the chiller.

4. Raycus and MAX are mail back to china for repair, very time consuming and expensive, unless you bought from a US importer like me, who has backup sources, heads, chillers, etc.

5. 61% of all nLight source issues are solved by remote access tuning by nLight engineer with same day service.

6. Average total nLight failure is resolved in 36 hours, this accounts for both onsite repairs and remote in resolution.

7. nLight is cheaper than IPG, but more expensive than Raycus/MAX

8. So given all of this "Data". its super risky to advise anyone who has no backup plan in the even of failure to cut highly reflective materials such as copper/brass, and the more moderately reflective material such as Aluminum when its at the MAX of a sources given capacity for that material. I recommend 1500-2000 watt limit it to 1/8th, and 3kw to 3/16 for occasional cutting...

9. Can you be more aggressive than that? Absolutely... it will cut great.... right up to the point that it doesnt cut at all... , and then what? why risk it? If thick aluminum cutting is your primary business... you need nLight, for all the reasons I listed above. If you want to occasionally cut aluminum at 1/2 the max thickeness for a given source, thats fine, just need to have good pierce parameters... But cutting 1/4" aluminum with a 2kw raycus is a ticking time bomb

10. nLight now collects real time live data on sources that are on the internet. This data is constantly being analyzed and merged with failure data, and they can now or will soon be able to predict source failures and notify customers in advance.
You dont see a lot of posts about Source failures. For whatever reason, a lot of guys will message me directly about an issue, but not post it in the group. This is unfortunate.