

What are the difference between Glowforge Pro, Aeon-Mira 7 , FSL PS20 Pro, FSL Muse 3D, Moss LS1620 and Thunder-Nova Mini/40W & 24/60W?

This document is a very basic over view of the differences and camparison of some commonly asked questions.

Complied by Asim F. on 7/5/21 :)

	GF Pro	Mira 7	FSL PS20 Pro	FSL Muse 3D	Boss LS1620	OMTECH AF2028-60	Nova Mini	Nova 24	Notes
Work area	19.5"x11"x0.5"	27.5"x 17.8"x5.9"	20"x12"x6.5"	20"x12"x2.5"	20"x15.5"x8"	27.5"x19.5"x10"	23.6"x15.7"x0.4"	23.6"x15.7"x6.7"	OMTech offers more overall work space
Pass through	Yes: 0.25"	No	Yes: 3"	No	Yes: 2"	Yes: 3.9"	Yes: 0.75"	Yes: 0.75"	OMTech claims 3.9" pass through
Max material thickness	2"	5.3"	6.5"	Not clear	8"	9.1"	0.6"	6.1"	OMTech claims more height
Laser power	45W	60W	45W	45W	50W	60W	40W	60W	60W is good
Motor type	Stepper	Digital Stepper	Stepper	Stepper	Stepper	Stepper	Stepper	Hybrid Servo	Additional info needed on Mira7 motor
Motor speed	600 mm/s	1200 mm/s	600 mm/s	600 mm/s	600 mm/s	500 mm/s	600 mm/s	1000 mm/s	Speed on Mira is good but not sure about accuracy
Red Dot	No	Yes	No info	Yes	Yes	Yes	No	Yes	Red dot helps to know where the head is on the material
Chiller included	Closed loop self cooling	Yes/Built-in	Yes	Yes	Yes	Yes	Yes	Yes	Chiller helps but external is better since it allows for upgrades
Chiller type	Self cooling	Built-in 3000	Standard Chiller	Standard Chiller	CW3000	Water pump	CW3000	DW5000	DW5000 is a true chilller like a fridge. CW3000 is air cooled. Water pump with OMTech will require managing cold temp
Air included	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Even through all machines
Air type	Internal air assist	Built-in pump	External Pump	External Pump	External Pump	Built-in pump	External Pump	External Pump and dual sourced	Nova dual source allows for external air supply to be added so that you can do low pressure for engraving and high pressure for cutting
Exhaust inculded	No. Add-on	Yes/Built-in	Yes/External	Basic fan	Yes/External	No. Add-on	Yes/External	Yes/External	External on FSL Pro, Boss, & Nova is better option for upgrades
Camera	Included	Add-on	No option offered	Included	Add-on	Add-on	Add-on	Add-on	Camera cost around US\$200-450
Motorized bed	No	Yes - up/down. Honeycomb and blades	Yes - up/down. Honeycomb and blades	Yes - up/down. Honeycomb	Yes - up/down. Honeycomb and blades	Yes - up/down. Honeycomb and blades	No - fixed. Honeycomb and blades	Yes - up/down. Honeycomb and blades	Having both honeycomb and blades is a big plus
Catch Tray	No	No	No	No	No	No	No	Coming 2021	Tray to catch the little pieces and pull out
Tumblers	No	Yes with rotary	Yes with rotary	Yes with rotary	Yes with rotary	Yes with rotary	No	Yes with rotary	Various options: rollers and chuck

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Auto focus	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	auto distance from the laser head
Software	Web Based. Must be connected to web to work on laser	RD works/Aeon ProSMART. Can upgrade to LightBurn	FSL Retina Engrave	FSL Retina Engrave	LightBurn	RD works/ LightBurn	RD works/ LightBurn	RD works/ LightBurn	LightBurn 1st yr with free updates included with Nova. After that, if new versions are desired, US\$30 to renew per year. Open software on Nova, Boss, & OMTech is better option vs having machine specific software
Warranty	1yr	2yrs	1yr	1yr	2yrs	2yrs machine, 6mo tube & pwr	2yrs machine, 1yr rest & transferable	2yrs machine, 1yr rest & transferable	Thunder US support via US team, China factory, and FB group. Lens/mirrors have 30 day warranty
Support	unsure	Life	Not clear	Not clear	2yrs	Life	Life	Life	Thunder US support via US team, China factory, and FB group members
Price	US\$5,995	US\$7,995	US\$5,395	US\$6,524	US\$6,842	US\$2,999.99 Amazon	US\$5,100	US\$6,900	GF \$500 discount possible through coupon/referral. OMTech is much lower in price and based on feedback online, my opinion leans towards Nova 24 for built quality, features, and support for startups and OMTech for adv. users who can do custom upgrades and can work around various limitations.
Shipping	included	+ shipping	included	included	+ 500 or more	included	included	included	Nova prices in US includes shipping

