GeoTech
Georgian Technology

ALGOLASER

# Laser engravers & cutters

## Product catalog 2026

- Smart touch screen
- 5W – 40W + 1064nm
- Wood · Acrylic · Leather · Metal




**Pixi · DIY KIT MK2 · DIY KIT MK3 · Alpha MK2**

**Delivered, assembled, taught and warranted — in Georgia.**

Supplied by Geotech Group LLC

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# 6 Ot çCl t ç] l hç YN] ; i HhçVh] Z ç H] kHDO¶

" hF-HhP[ Nç çY i HhçZ ; DOP[ H] [ YP HçP ç] [ Y çkOHçz hi k ç kH-e ¯ç6 PRO ç H] kHDOç] l ç NHk ç Z ; DOP[ HçkO; kçP çtH; Ft çk] r ] hXçÑi ç [ Fç ç Y D; YçkH; Z ç i k; [ FP[ NçCHOP[ FçR ¯

## " hF-HhP[ Nç Ch] ; Fç] l hi HYXçi ¯çCl t P[ NçVh] Z ç H] kHDO

| | " hF-HhP[ NçRç] l hi HNM | l t P[ NçVh] Z ç H] kHDO |
|---|---|---|
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| i i HZ CY | 8] l ç i i HZ CY-HçRç Y] [ HçVh] Z çkOHçZ ; [ l ; Y | i i HZ CY-HFç [ FçkH-i kÎh [ ç Ct ] l hç-H[ NP[ HHhi |
| H; h[ P[ Nçk] ] eHh; kH | . HYXÎi kl Ft çVh] Z çq PF-H] i ç [ FçZ ; [ l ; Y | ; [ Fi Î] [ çkh; P[ P[ NçP[ DY F-HF |
| 6 ; hh; [ kt ç çH-e; PPi | Y PZ i çkOh] l NOçkOHçq H-hi H; i çZ ; [ l Vl Dkl h-HhÛç] [ YP HçkPDX-Hk² e; hki ç OReeHF çP[ kH-H[ ; kP[ ; Yt | ] D; Yç..Î Z ] [ kOç ; hh; [ kt ° i HhqPDHF çP[ ç CPYP P |
| DDH-i i ] hPHi ç Z ; kHhP; Y | . He; h; kH-] qHhi H; i ç] hF-Hhi ç [ Fç OReeP[ Nç-HqHht çkPZ H | " [ HçY D; Yç l eeYP-Hhç Vl h HqHht kOP[ Nç] l ç HHF |

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- ; i HhçZ ] Fl Y-Hç] l kel kçe] r HhçF-HDYP[ Hi çNh; Fl ; YYç PRO ç i H ÂVH-hg l H[ Dt °ç ] hXP[ NçO] l hi °ç-H[ qP-] [ Z H[ kÃ ç ; kH-FçPVH-kZ H ‹ °ƒ ƒ ƒ Ð, ƒ °ƒ ƒ ƒ çO] l hi ¯
- YN] ; i HhçZ ; [ l Vl Dkl h-HhçD] qHh; NH-ç Ît H; hç ] hYFr P-F H r ; hh; [ kt ç] [ ç YçF-HqPDHi ¯
- ] kçD] qHhH-F ±çZ P-l i H-Pç [ ; l kO] hPVH-FçZ ] F-PZ D; kP[ ç] h F-P; i i HZ CY °çPYH-N; Yç h ç ] [ Î i k; [ F; hF ç ] Mr ; h-Pç [ ; l kO] hPVH-F kOP-Fle; hkt çe; hki °çVh D-HçZ ; VM h-Hç l Yçk-HnZ i ç h-HçP ç ] l h r ; hh; [ kt ç NhHHZ H[ k ¯

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Pixi · DIY KIT MK2 10W · Alpha MK2 10W

**▒ut ▒oo▒▒▒cry▒ic▒ c▒r▒▒o▒r▒**

DIY KIT MK3 20W · Alpha MK2 20W / 40W

**▒ ▒r▒met▒▒ ▒▒▒▒tic**

1064nm infrared — Pixi, MK2, Alpha MK2

**▒ro▒uce in ▒o▒ume**

Alpha MK2 + Extension Kit 400×850 mm









## . PF HçCt ç PF H

| ▒odel | Best for | Work area | Laser options | ▒ax speed mm▒min | Highlights |
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## 6 OPDOçe] r HhçF] çç[ HHF¶

- ▒▒1▒W▒engraving and thin materials ▒paper, leather, 3▒▒▒ mm wood▒
- ▒▒W▒the fastest cu▒ing of thic▒wood, acrylic and thin sheet metal
- 1▒▒22W▒faster wor▒and cu▒ing up to ▒▒12 mm wood in one pass ▒see product pages▒
- 1▒▒▒nm ▒▒▒mar▒ing metal, plastic and stone ▒ it does not cut

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5W 10W 1064nm





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| 6 ; qHYH[ NkO | ‡^ ƒù^ çt Z çç- ç ƒ %‡çt Z |
| . DhHH[ | †¯^ àç* . çk] l DO |
| ] [ kh] Y | YXj ; i Hhç eeçç ; i Hh - çç PNOk l h[ ,ç* çt ] Nkr ; hH |
| ] [ [ HDkPqPRt | 0. çç6 PP Pç..¯‡ çç6 HCçO çç çD; hF |
| ] Yj hi | - HFçç Y DX |
| *; DX; NHçt PNH | †ƒ^ ô..Šƒ ô..‡ƒçZ Z |
| h] i i ç HPNOk | ‡çXN |

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- Fully assembled — unbo and create
- nclosed lass laser system with screen loc
- touch screen type te ts etch reverse engrave photos — no needed
- nterrupt recovery o set tilt and S disconnect protection
- ual sided base at for engraving grooved for air ow when cu ing height ad ustable
- Available in red or blac

- With Geotech e i ery em y t our o ice tr ining 12 month oc rr nty

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10W

IR 1064nm 2W



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HZ ] ht

## P■W■R ■■RSI■■S

| ■aser options | Real laser power | ■aser spot | Work area |
|---|---|---|---|
| ■■W | 10,000 mW | 0.05×0.10 mm | 400×435 mm |
| ■■■■nm ■■ ■W | 2,000 mW | 0.04×0.05 mm | 400×435 mm |

## SP■■■I■I■ATI■■■S

| | |
|---|---|
| | ‡ƒ ƒ ô‡†^ çZ Z çç‡se; [ F; CYHçk] ç‡ƒ ƒ ô‹ ^ ƒ |
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| | ‹ ç çç‡I ; ŶD] hHç * 0 çô... |
| | YNj ; i Hhç eeçç ; i Hh - çç PNOk I h[ ,ç* ç‡] Nkr ; hH |
| | 0. Ó çç0. Ó çç6 Pj Pç..¯‡ çç6 HOç0 çç‡ D; hFç |
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| | ^ ¯‡ çXN |

## W■r■■ ■ith



Pnçl Z e



] [ Ht D] Z C



- ] k; ht

## K■Y ■■AT■R■S

- ■ll■in■one smart touch screen — engrave original pictures and cut ■■■ ■les directly
- ■uilt■in ■lgo graphics engine■a ■M■ ■P■ is processed in about ■0 seconds
- ■■■ storage ■■,000 design ■les■, dual■core CP■, 1■■ language ■lgo■■ including ■ussian
- ■eamless recovery after interruption, one■tap batch engraving, drag■to■set origin with range preview
- ■pring■loaded mechanical focus, upgraded laser ■■ture, nylon rollers
- ■safety features incl■emergency stop■Class 1 certi■ed to ■EC 60■■■■1 with protective bo■

## I■ T■■ ■■■■

- ■ear panel, ■■a■s, left ■ right ■■a■s and front assemblies
- Control bo■, power adapter and cable
- ■aser module
- ■lgo■aser air pump ■■M■0■■

## ■aser safety goggles

With Geotech: delivery ■assembly at our office ■training ■12-month local warranty

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| Laser options | Laser spot | Air pump | ackage size | Gross weight |
|---|---|---|---|---|
| ‹ 6 | 0 0 0 0 mm | o pump | 6 0 0 140 mm | 4 kg |
| „^ 6 | 0 0 0 14 mm | o pump | 6 0 0 140 mm | 4 kg |
| ..ƒ 6 | 0 1 0 16 mm | ith air pump | 00 0 140 mm | kg |

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| | YXj] ; i Hhç eeçç ; i Hh - çç PNOk l h[ ,ç* ç] Nkr ; hH |
| | 0. çG Pº Pç..‡ çG HCç0 çç' çD; hF |

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- PNOHnçY i Hhçe] r HhçkO; [ ç 8ç /ç ..ç kç çq Hht D] Z eHkRRçHçD] i k
- ; i PHh°çY ik Hhç i i HZ CY çÑç ekHZ PNHFç kh l Dk l hH
- ] Dl i Pç Nç D] Y Z [ çP kHNh; kHFçP k] çkOHçY i Hhç Z ] Fl Y+± Y] i H[ çkOHç DHHr °ç FWi k°çkPNOkH[
- l PKî Pç DhHH[ ç PROç YXj] ç' . çP ç ç Hr çNh; t çFHi PN[
- 6 ] hXi ç PROçkOHç YXj] ; i Hhç ee°ç ; i Hh - °ç PNOk l h[ ; [ Fç* ç] Nkr ; hH

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With Geotech: delivery · assembly at our o ice · training · 12-month local warranty

# ALPHA MK2

**Professional power for cutting and engraving**

10W 20W 40W IR 1064nm




**400×400 mm**
Work area

**20,000**
mm/min

**10 – 40 W**
Laser options

## POWER VERSIONS

| Laser options | Real laser power | Laser spot | Work area | Air pump | Gross weight |
|---|---|---|---|---|---|
| **10W** | 10,000 mW | 0.15×0.12 mm | 400×400 mm | – | 8.3 kg |
| **20W** | 20,000 mW | 0.15×0.12 mm | 400×400 mm | ✓ | 8.3 kg |
| **40W** | 40,000 mW | 0.175×0.15 mm | 400×395 mm | ✓ | 10 kg |
| **1064nm IR 2W** | 2,000 mW | ≤0.04×0.05 mm | 400×410 mm | – | 8.3 kg |

## SPECIFICATIONS

| | |
|---|---|
| Max engraving speed | 20,000 mm/min |
| Wavelength | 450±5 nm · IR 1064 nm |
| Operating system | AlgoOS · 3.5" IPS touch |
| Control | AlgoLaser App · LaserGRBL · LightBurn · PC software |
| Connectivity | USB · Wi-Fi 2.4G · Web UI · TF card 32G |
| Machine size | 692×585×200 mm |
| Package size | 765×235×218 mm |
| One-pass cutting | 20W: birch plywood 10, basswood plywood 12, pine 10, paulownia 12 mm |

## KEY FEATURES

- Smart laser module: flame alert, lens-cleaning reminder, air-pressure monitoring
- Integrated air pump (20W / 40W) for clean edges and fewer flare-ups
- Spring-loaded mechanical focus, upgraded laser fixture, nylon rollers
- Safety: emergency stop, key safety lock, offset, tilt, temperature, USB and voltage/current monitoring
- Up to 20,000 mm/min; expandable to 400×850 mm with the Extension Kit
- Smart touch screen: engrave pictures and cut SVG files without a PC

## Works with



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[ Nh; qHç RRO] l kç çD] Z el kHh¯ç* PDXç çz Y+ºç Hkçk OHçe; h; Z HkHhi °çe hHi i ç k; hkçÑ çM i kçPXHç i P[ Nç çe O] [ H¯








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] [ kh] YZ ] FH ç 6 çç‡ ^ ƒ ù ^ ç Z çç- ç ƒ ‰ ‡ ç Z

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## 4nm infrared mar metal plastic and stone

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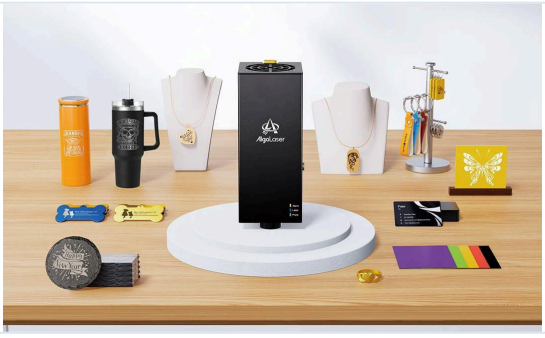
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6 " - .* ç ç / 8

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### A■■■■■■■■ R■■■■

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### A■P■■ ■

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### F■■■■■■ S■ ■■■E■■■■■■■

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### S■ ■■■P■■■■■

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### F■■■■E■■■ ■■■■

■ep■■ement set ■or t■e p■ri■er■ primary pa■s■me■i■m■e■i■ien■y an■ ■i■■■e■i■ien■y parti■■■ate ■■ters■

‹ çehPZ ; ht çe; Fi çç.çZ HFHP Z çç çOPNOÎ Hx PDPH[ Dt



### E■■■■■■■■ K■■

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Y¢O; ç ..¢ç 8ç / ç ..çç‡ƒ ƒ ô‹ ^ ƒ Z Z

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t Y¶[ FHHi ç Ð„..ƒ çZ Z çç¢ eOHHHi ç.^ Ð„^ ƒ Z Z çç fP[ Ni ç„Ð„ƒ ƒ çZ Z ççkPkçƒ Ð„‹ ƒ ■




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Laser Cutter Control Software
LightBurn
LIGHTBURN







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. k; hkç ] hXP] Nç [ çF; t ç [ HçÑçkHi kçCY [ Xi ç [ Fçeh] WDkçZ ; kHhP; Y ç PHFçY] hç YN] ; i HhçZ ; DOP] Hi fl



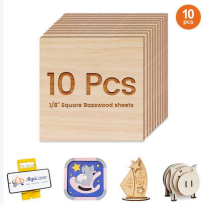

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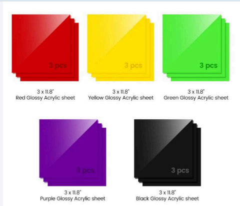

- ] l [ FçC; Z C] ] çD] ; i kHhi
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- ] l [ FçD] hXçD] ; i kHhi
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6 ] ] FH[ çXHt DO; P] i
ectangle heart pcs



] Y] hHFç Dht YPDç OHHki
mm pcs red yello green purple black




Y DXç Dht YPDç OHHki
mm pcs




. Y kHçD] ; i kHhi
mm pcs s uare or round



. k; P] YHi i ç kHHYF] Nçk; Ni
mm pcs gold silver black and above




Y DXç Y Z P] l Z çCl i P] Hi i D; hFi
mm pcs




; i HhçZ ; hXP] Nçk; [ i NHh e; eHh
mm sheets blue or black for ceramic glass stone

H] kHDO

Works with all AlgoLaser machines. Availability may vary — ask our team.

/ - .

# 6 O; kçD; [ ç ] l ç ] hXç [ ¶

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# 10W Material settings by laser head

DIY KIT MK3 8W / 15W modules: start from the 10W settings and test on a sample.

**ENGRAVING (image mode: grayscale, line-to-line)**

| Material | Speed mm/min | Power | Line interval mm |
|---|---|---|---|
| Birch Plywood | 15,000 | 100% | 0.07 |
| Basswood Plywood | 20,000 | 100% | 0.05 |
| Eucalyptus Plywood | 20,000 | 100% | 0.1 |
| Pine Board | 15,000 | 100% | 0.05 |
| Paulownia Plank | 15,000 | 100% | 0.07 |
| MDF | 20,000 | 100% | 0.05 |
| Black Acrylic | 20,000 | 100% | 0.05 |
| Green Acrylic | 8,000 | 100% | 0.05 |
| Orange Acrylic | 8,000 | 100% | 0.05 |
| Yellow Acrylic | 8,000 | 100% | 0.05 |
| Red Acrylic | 8,000 | 100% | 0.05 |
| Polyvinyl Chloride | 20,000 | 100% | 0.1 |
| Gray Cardboard | 20,000 | 100% | 0.07 |
| White Cardboard | 20,000 | 100% | 0.05 |
| Black Cardboard | 20,000 | 100% | 0.1 |
| Coated Duplex Board | 20,000 | 100% | 0.07 |
| Leather | 20,000 | 100% | 0.1 |
| Colored Paper | 20,000 | 100% | 0.07 |
| Navy Blue Canvas | 20,000 | 100% | 0.05 |
| Denim | 20,000 | 100% | 0.05 |
| Rubber | 20,000 | 100% | 0.1 |
| Black ABS Sheet | 20,000 | 100% | 0.05 |
| White ABS Sheet | 3,000 | 100% | 0.05 |
| Bamboo | 20,000 | 100% | 0.05 |
| Stainless Steel | 100 | 100% | 0.05 |
| Cold Rolled Sheet | 100 | 100% | 0.05 |
| Coated Metal | 3,000 | 100% | 0.05 |
| Dry Leaves | 20,000 | 100% | 0.1 |

**CUTTING (vectorize / line)**

| Material | Thickness mm | Speed mm/min | Power | Passes |
|---|---|---|---|---|
| Birch Plywood | 4 | 200 | 100% | 1 |
| Birch Plywood | 6 | 100 | 100% | 2 |
| Basswood Plywood | 3 | 500 | 100% | 1 |
| Basswood Plywood | 5/6 | 200 | 100% | 1 |
| Basswood Plywood | 8 | 300 | 100% | 3 |
| Basswood Plywood | 10 | 200 | 100% | 3 |
| Basswood Plywood | 12 | 100 | 100% | 3 |
| Basswood Plywood | 13 | 100 | 100% | 4 |
| Eucalyptus Plywood | 5 | 100 | 100% | 4 |
| Pine Board | 5 | 100 | 100% | 1 |
| Pine Board | 10 | 100 | 100% | 2 |
| Pine Board | 12 | 100 | 100% | 3 |
| Pine Board | 15 | 150 | 100% | 6 |
| Pine Board | 19 | 150 | 100% | 9 |
| Pine Board | 20 | 150 | 100% | 10 |
| Paulownia Plank | 3 | 600 | 100% | 1 |
| Paulownia Plank | 5 | 500 | 100% | 1 |
| Paulownia Plank | 8 | 300 | 100% | 1 |
| Paulownia Plank | 10 | 300 | 100% | 1 |
| Paulownia Plank | 12 | 100 | 100% | 1 |
| MDF | 3 | 200 | 100% | 2 |
| MDF | 5 | 200 | 100% | 4 |

**CUTTING (vectorize / line)**

| Material | Thickness mm | Speed mm/min | Power | Passes |
|---|---|---|---|---|
| Cherry Wood | 3 | 300 | 100% | 1 |
| Cherry Wood | 5 | 200 | 100% | 1 |
| Cherry Wood | 8 | 100 | 100% | 2 |
| Cherry Wood | 10 | 100 | 100% | 4 |
| Walnut | 3 | 400 | 100% | 1 |
| Walnut | 5 | 200 | 100% | 1 |
| Walnut | 8 | 100 | 100% | 2 |
| Walnut | 10 | 200 | 100% | 8 |
| Walnut | 12 | 200 | 100% | 10 |
| Black Acrylic | 3.5 | 100 | 100% | 1 |
| Black Acrylic | 6 | 100 | 100% | 3 |
| Black Acrylic | 8 | 100 | 100% | 4 |
| Black Acrylic | 10 | 100 | 100% | 5 |
| Black Acrylic | 15 | 100 | 100% | 7 |
| Black Acrylic | 20 | 100 | 100% | 15 |
| Black Acrylic | 25 | 100 | 100% | 20 |
| Black Acrylic | 30 | 100 | 100% | 25 |
| Green Acrylic | 3 | 100 | 100% | 2 |
| Green Acrylic | 5 | 100 | 100% | 4 |
| Green Acrylic | 8 | 100 | 100% | 8 |
| Orange Acrylic | 3 | 100 | 100% | 2 |
| Yellow Acrylic | 3 | 100 | 100% | 2 |
| Yellow Acrylic | 5 | 100 | 100% | 3 |
| Red Acrylic | 3 | 100 | 100% | 2 |
| Red Acrylic | 5 | 100 | 100% | 4 |
| Red Acrylic | 10 | 100 | 100% | 10 |
| Polyvinyl Chloride | 3 | 900 | 100% | 1 |
| Polyvinyl Chloride | 5 | 700 | 100% | 1 |
| Gray Cardboard | 1 | 600 | 100% | 1 |
| Gray Cardboard | 2 | 300 | 100% | 1 |
| Gray Cardboard | 3 | 200 | 100% | 1 |
| White Cardboard | 1 | 900 | 100% | 1 |
| White Cardboard | 2.5/3 | 200 | 100% | 1 |
| Black Cardboard | 1 | 700 | 100% | 1 |
| Black Cardboard | 2.5 | 200 | 100% | 1 |
| Coated Duplex Board | 1 | 600 | 100% | 1 |
| Coated Duplex Board | 2 | 300 | 100% | 1 |
| Corrugated Board | 2 | 1,000 | 100% | 1 |
| Corrugated Board | 5 | 800 | 100% | 1 |
| Leather | 1.5/2 | 400 | 100% | 1 |
| Colored Paper | 0.2 | 100 | 100% | 1 |
| Colored Canvas | 0.6 | 900 | 100% | 1 |
| White Canvas | 0.6 | 900 | 100% | 1 |
| Denim | 0.7/0.8 | 900 | 100% | 1 |
| Rubber | 1 | 100 | 100% | 2 |
| White ABS Sheet | 1 | 100 | 100% | 2 |
| Black ABS Sheet | 0.8 | 500 | 100% | 1 |
| Black ABS Sheet | 2 | 200 | 100% | 1 |
| Black ABS Sheet | 3 | 200 | 100% | 2 |
| Black ABS Sheet | 4 | 200 | 100% | 1 |
| Black ABS Sheet | 6 | 100 | 100% | 2 |
| Bamboo | 8.5 | 100 | 100% | 6 |

# 20W Material settings by laser head

Alpha MK2 20W module settings (LightBurn column).

**ENGRAVING (image mode: grayscale, line-to-line)**

| Material | Speed mm/min | Power | Line interval mm |
|---|---|---|---|
| Birch Plywood | 10,000 | 100% | 0.1 |
| Basswood Plywood | 20,000 | 100% | 0.1 |
| Eucalyptus Plywood | 10,000 | 100% | 0.1 |
| Pine Board | 15,000 | 100% | 0.1 |
| Paulownia Plank | 20,000 | 100% | 0.1 |
| MDF | 15,000 | 100% | 0.1 |
| Black Acrylic | 20,000 | 100% | 0.1 |
| Green Acrylic | 20,000 | 100% | 0.05 |
| Orange Acrylic | 20,000 | 100% | 0.05 |
| Yellow Acrylic | 20,000 | 100% | 0.05 |
| Red Acrylic | 20,000 | 100% | 0.05 |
| Gray Cardboard | 20,000 | 500% | 0.1 |
| White Cardboard | 15,000 | 50% | 0.05 |
| Black Cardboard | 20,000 | 20% | 0.05 |
| Coated Duplex Board | 20,000 | 40% | 0.1 |
| Leather | 20,000 | 30% | 0.1 |
| Colored Paper | 20,000 | 100% | 0.1 |
| Navy Blue Canvas | 20,000 | 100% | 0.1 |
| Denim | 20,000 | 40% | 0.05 |
| Rubber | 20,000 | 50% | 0.1 |
| Black ABS Sheet | 20,000 | 100% | 0.05 |
| Bamboo | 20,000 | 50% | 0.05 |
| Stainless Steel | 3,000 | 100% | 0.05 |
| Cold Rolled Sheet | 2,000 | 100% | 0.05 |
| Coated Metal | 20,000 | 100% | 0.1 |
| Dry Leaves | 20,000 | 30% | 0.1 |

**CUTTING (vectorize / line)**

| Material | Thickness mm | Speed mm/min | Power | Passes |
|---|---|---|---|---|
| Birch Plywood | 4 | 400 | 100% | 1 |
| Birch Plywood | 6 | 300 | 100% | 1 |
| Birch Plywood | 9/10 | 100 | 100% | 1 |
| Birch Plywood | 12 | 100 | 100% | 3 |
| Basswood Plywood | 3 | 700 | 100% | 1 |
| Basswood Plywood | 5 | 300 | 100% | 1 |
| Basswood Plywood | 6 | 300 | 100% | 1 |
| Basswood Plywood | 8 | 200 | 100% | 1 |
| Basswood Plywood | 10/12 | 100 | 100% | 1 |
| Basswood Plywood | 13/14/15 | 100 | 100% | 2 |
| Basswood Plywood | 20 | 200 | 100% | 15 |
| Eucalyptus Plywood | 5 | 300 | 100% | 1 |
| Eucalyptus Plywood | 10 | 200 | 100% | 2 |
| Eucalyptus Plywood | 12 | 200 | 100% | 4 |
| Eucalyptus Plywood | 15 | 300 | 100% | 6 |
| Pine Board | 5 | 200 | 100% | 1 |
| Pine Board | 10/12 | 100 | 100% | 1 |
| Pine Board | 15 | 100 | 100% | 2 |
| Pine Board | 19/20 | 100 | 100% | 3 |
| Pine Board | 30 | 100 | 100% | 10 |
| Paulownia Plank | 3 | 1,000 | 100% | 1 |
| Paulownia Plank | 5 | 700 | 100% | 1 |
| Paulownia Plank | 8 | 500 | 100% | 1 |
| Paulownia Plank | 10 | 100 | 100% | 1 |

**CUTTING (vectorize / line)**

| Material | Thickness mm | Speed mm/min | Power | Passes |
|---|---|---|---|---|
| Paulownia Plank | 12 | 100 | 100% | 1 |
| Paulownia Plank | 15 | 200 | 100% | 1 |
| Paulownia Plank | 20 | 200 | 100% | 3 |
| MDF | 3 | 200 | 100% | 1 |
| MDF | 5 | 200 | 100% | 2 |
| MDF | 12 | 300 | 100% | 6 |
| White Oak | 8 | 800 | 100% | 1 |
| White Oak | 10 | 160 | 100% | 1 |
| White Oak | 12 | 200 | 100% | 2 |
| White Oak | 15 | 200 | 100% | 4 |
| White Oak | 20 | 200 | 100% | 5 |
| Red Oak | 8 | 160 | 100% | 1 |
| Red Oak | 10 | 130 | 100% | 1 |
| Red Oak | 12 | 200 | 100% | 3 |
| Red Oak | 15/20 | 200 | 100% | 4 |
| Red Oak | 25 | 200 | 100% | 10 |
| Black Acrylic | 5 | 100 | 100% | 1 |
| Black Acrylic | 6 | 100 | 100% | 1 |
| Black Acrylic | 8 | 100 | 100% | 1 |
| Black Acrylic | 10 | 60 | 100% | 2 |
| Black Acrylic | 15 | 100 | 100% | 4 |
| Black Acrylic | 20 | 100 | 100% | 5 |
| Black Acrylic | 25 | 100 | 100% | 10 |
| Black Acrylic | 30 | 100 | 100% | 10 |
| Black Acrylic | 45 | 100 | 100% | 15 |
| Black Acrylic | 50 | 100 | 100% | 30 |
| Green Acrylic | 3 | 300 | 100% | 2 |
| Green Acrylic | 5 | 100 | 100% | 2 |
| Green Acrylic | 8 | 100 | 100% | 4 |
| Yellow Acrylic | 3 | 100 | 100% | 1 |
| Yellow Acrylic | 5 | 100 | 100% | 2 |
| Red Acrylic | 3/5 | 100 | 100% | 1 |
| Red Acrylic | 10 | 200 | 100% | 6 |
| Polyvinyl Chloride | 3 | 1,600 | 100% | 1 |
| Polyvinyl Chloride | 5 | 900 | 100% | 1 |
| Polyvinyl Chloride | 15 | 300 | 100% | 2 |
| Gray Cardboard | 1 | 1,200 | 100% | 1 |
| Gray Cardboard | 2 | 500 | 100% | 1 |
| Gray Cardboard | 3 | 300 | 100% | 1 |
| Gray Cardboard | 6 | 300 | 100% | 2 |
| White Cardboard | 1 | 1,100 | 100% | 1 |
| White Cardboard | 2.5/3 | 600 | 100% | 1 |
| Black Cardboard | 1 | 1,100 | 100% | 1 |
| Black Cardboard | 2.5 | 600 | 100% | 1 |
| Coated Duplex Board | 1 | 1,100 | 100% | 1 |
| Coated Duplex Board | 2 | 600 | 100% | 1 |
| Corrugated Board | 2 | 2,000 | 100% | 1 |
| Corrugated Board | 5 | 1,000 | 100% | 1 |
| Leather | 1.5/2 | 600 | 100% | 1 |
| Colored Paper | 0.2 | 10,000 | 100% | 1 |
| Colored Canvas | 0.6 | 2,000 | 100% | 1 |
| White Canvas | 0.6 | 1,000 | 100% | 1 |

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# 40W Material settings by laser head

Alpha MK2 40W module settings (LightBurn column).

**ENGRAVING (image mode: grayscale, line-to-line)**

| Material | Speed mm/min | Power | Line interval mm |
|---|---|---|---|
| Birch Plywood | 25,000 | 100% | 0.1 |
| Basswood Plywood | 30,000 | 100% | 0.1 |
| Eucalyptus Plywood | 30,000 | 50% | 0.05 |
| Pine Board | 25,000 | 100% | 0.09 |
| Paulownia Plank | 30,000 | 100% | 0.09 |
| MDF | 30,000 | 100% | 0.05 |
| Black Acrylic | 25,000 | 100% | 0.1 |
| Green Acrylic | 30,000 | 100% | 0.1 |
| Orange Acrylic | 30,000 | 100% | 0.1 |
| Yellow Acrylic | 25,000 | 100% | 0.1 |
| Red Acrylic | 30,000 | 100% | 0.1 |
| Polyvinyl Chloride | 30,000 | 50% | 0.1 |
| Gray Cardboard | 30,000 | 70% | 0.1 |
| White Cardboard | 25,000 | 100% | 0.09 |
| Black Cardboard | 30,000 | 50% | 0.1 |
| Coated Duplex Board | 25,000 | 50% | 0.1 |
| Leather | 30,000 | 100% | 0.1 |
| Colored Paper | 25,000 | 30% | 0.1 |
| Navy Blue Canvas | 25,000 | 50% | 0.1 |
| Denim | 28,000 | 100% | 0.1 |
| Rubber | 25,000 | 100% | 0.1 |
| Black ABS Sheet | 25,000 | 100% | 0.1 |
| Bamboo | 20,000 | 100% | 0.1 |
| Stainless Steel | 8,000 | 100% | 0.05 |
| Cold Rolled Sheet | 5,000 | 100% | 0.07 |
| Coated Metal | 30,000 | 30% | 0.1 |
| Dry Leaves | 30,000 | 70% | 0.1 |

**CUTTING (vectorize / line)**

| Material | Thickness mm | Speed mm/min | Power | Passes |
|---|---|---|---|---|
| Birch Plywood | 15 | 200 | 100% | 1 |
| Birch Plywood | 20 | 200 | 100% | 4 |
| Basswood Plywood | 2 | 1,200 | 100% | 1 |
| Basswood Plywood | 3/4/5 | 700 | 100% | 1 |
| Basswood Plywood | 6 | 400 | 100% | 1 |
| Basswood Plywood | 8 | 350 | 100% | 1 |
| Basswood Plywood | 10 | 300 | 100% | 1 |
| Basswood Plywood | 12/13 | 250 | 100% | 1 |
| Basswood Plywood | 14/15 | 150 | 100% | 1 |
| Eucalyptus Plywood | 5 | 600 | 100% | 1 |
| Eucalyptus Plywood | 10 | 200 | 100% | 1 |
| Eucalyptus Plywood | 12/15 | 100 | 100% | 2 |
| Pine Board | 5 | 600 | 100% | 1 |
| Pine Board | 10 | 250 | 100% | 1 |
| Pine Board | 15 | 200 | 100% | 1 |
| Pine Board | 20 | 100 | 100% | 1 |
| Pine Board | 30 | 80 | 100% | 1 |
| Pine Board | 40 | 500 | 100% | 15 |
| Pine Board | 50 | 500 | 100% | 23 |
| Paulownia Plank | 3 | 1,400 | 100% | 1 |
| Paulownia Plank | 5 | 1,200 | 100% | 1 |
| Paulownia Plank | 8 | 1,000 | 100% | 1 |
| Paulownia Plank | 10 | 800 | 100% | 1 |

**CUTTING (vectorize / line)**

| Material | Thickness mm | Speed mm/min | Power | Passes |
|---|---|---|---|---|
| Paulownia Plank | 12 | 400 | 100% | 1 |
| Paulownia Plank | 20/25 | 500 | 100% | 2 |
| MDF | 3 | 900 | 100% | 1 |
| MDF | 5 | 500 | 100% | 1 |
| MDF | 9 | 200 | 100% | 2 |
| MDF | 12 | 250 | 100% | 4 |
| Black Acrylic | 3.5 | 500 | 100% | 1 |
| Black Acrylic | 5 | 250 | 100% | 1 |
| Black Acrylic | 8 | 200 | 100% | 1 |
| Black Acrylic | 10 | 200 | 100% | 4 |
| Black Acrylic | 15/20 | 200 | 100% | 5 |
| Black Acrylic | 25/30 | 200 | 100% | 9 |
| Black Acrylic | 40/50 | 100 | 100% | 12 |
| Green Acrylic | 3 | 300 | 100% | 1 |
| Green Acrylic | 5 | 150 | 100% | 1 |
| Green Acrylic | 8 | 150 | 100% | 2 |
| Orange Acrylic | 3 | 200 | 100% | 1 |
| Yellow Acrylic | 3 | 200 | 100% | 1 |
| Yellow Acrylic | 5 | 100 | 100% | 1 |
| Red Acrylic | 3 | 300 | 100% | 1 |
| Red Acrylic | 5 | 150 | 100% | 1 |
| Red Acrylic | 8 | 150 | 100% | 2 |
| Polyvinyl Chloride | 3/5 | 800 | 100% | 1 |
| Polyvinyl Chloride | 15 | 250 | 100% | 1 |
| Gray Cardboard | 1 | 3,000 | 100% | 1 |
| Gray Cardboard | 2 | 1,400 | 100% | 1 |
| Gray Cardboard | 3 | 800 | 100% | 1 |
| White Cardboard | 1 | 2,000 | 100% | 1 |
| Black Cardboard | 1 | 2,000 | 100% | 1 |
| Black Cardboard | 2 | 800 | 100% | 1 |
| Corrugated Board | 5 | 1,900 | 100% | 1 |
| Leather | 1.2 | 1,700 | 100% | 1 |
| Leather | 1.5 | 1,400 | 100% | 1 |
| Colored Paper | 0.2 | 4,000 | 100% | 1 |
| Colored Canvas | 0.6 | 4,000 | 100% | 1 |
| White Canvas | 0.6 | 2,000 | 100% | 1 |
| Denim | 0.7 | 2,700 | 100% | 1 |
| Rubber | 1 | 700 | 100% | 1 |
| White ABS Sheet | 1 | 300 | 100% | 1 |
| White ABS Sheet | 3 | 100 | 100% | 1 |
| Black ABS Sheet | 1 | 800 | 100% | 1 |
| Bamboo | 8.5 | 300 | 100% | 1 |
| Stainless Steel | 0.02 | 10,000 | 100% | 1 |
| Stainless Steel | 0.03 | 5,000 | 100% | 1 |
| Stainless Steel | 0.04 | 3,000 | 100% | 1 |
| Stainless Steel | 0.05 | 1,500 | 100% | 1 |
| Stainless Steel | 0.06 | 1,200 | 100% | 1 |
| Stainless Steel | 0.07 | 1,000 | 100% | 1 |
| Stainless Steel | 0.08 | 850 | 100% | 1 |
| Stainless Steel | 0.09 | 700 | 100% | 1 |
| Stainless Steel | 0.1 | 400 | 100% | 1 |
| Stainless Steel | 0.15 | 200 | 100% | 1 |

# 40W

## Material settings by laser head (2/2)

| CUTTING (vectorize / line) | | | | |
|---|---|---|---|---|
| **Material** | **Thickness mm** | **Speed mm/min** | **Power** | **Passes** |
| **Stainless Steel** | 0.2 | 100 | 100% | 1 |
| **Stainless Steel** | 0.25 | 100 | 100% | 2 |
| **Stainless Steel** | 0.3 | 100 | 100% | 2 |

# 1064nm IR

## Material settings by laser head

1064nm infrared marking (engraving only). Reference settings published by AlgoLaser for the 1064nm module; LightBurn grayscale, line-to-line, horizontal.

| ENGRAVING (image mode: grayscale, line-to-line) | | | |
|---|---|---|---|
| **Material** | **Speed mm/min** | **Power** | **Line interval mm** |
| Black Acrylic | 300 | 100% | 0.06 |
| Green Acrylic | 500 | 100% | 0.06 |
| Gray Cardboard | 500 | 100% | 0.06 |
| Black Cardboard | 600 | 60% | 0.05 |
| TPU Plastic | 6,000 | 100% | 0.06 |
| Rubber | 5,000 | 60% | 0.06 |
| Black ABS Sheet | 6,000 | 80% | 0.06 |
| Black PP | 6,000 | 30% | 0.06 |
| Stainless Steel | 3,000 | 100% | 0.06 |
| Cold Rolled Sheet | 3,000 | 100% | 0.06 |
| Coated Metal | 6,000 | 100% | 0.06 |
| Brass | 5,000 | 100% | 0.06 |
| Pure Aluminum | 6,000 | 100% | 0.06 |
| Pure Iron | 1,000 | 100% | 0.06 |

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