

| Materials | Thickness (mm) | Processing | Speed (mm/s) | Min Power (%) | Max Power(%) | Air pressure value | DPI |
|-----------|----------------|------------|--------------|---------------|--------------|--------------------|-----|
| Ceramic   | /              | Engraving  | 1000mm/s     | 60%           | 60%          | low                |     |
| Glass     | /              | Engraving  | 1000mm/s     | 50%           | 50%          | low                |     |
| Marble    | /              | Engraving  | 1000mm/s     | 40%           | 40%          | low                |     |
| Tile      | /              | Engraving  | 1000mm/s     | 50%           | 50%          | low                |     |



# THUNDER BOLT

New Laser Core | New Standards



## Why Thunder Bolt

### Why Thunder Bolt?

- \*High Resolution Engraving at High Speed
- \*Low Lifetime Cost
- \*1G Memory in the Machine
- \*Built-in Exhaust fan and Air compressor
- \*Touch Screen Operating Panel
- \*Super Silent Fans
- \*High-resolution Camera
- \*Integrated Suggest Parameter Settings
- \*LightBurn Software Compatible
- \*Rotary Axis Plug
- \*8xSafety lock
- \*New Zealand Support & Innovation Labs
- \*2 Years Warranty
- \*Metal Co2 Laser Source
- \*And More!

## Contact Us



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# Tech Specification

| Specification | Thunder Bolt     | Specification     | Thunder Bolt  |
|---------------|------------------|-------------------|---------------|
| Laser Source  | CO2 RF laser 30w | Standard Lens     | 1.5"          |
| Working area  | 508x305mm        | Camera            | Yes           |
| Max speed     | 1000mm/s         | Rotary Supportive | Yes           |
| Z axis Height | 110mm            | Software          | LightBurn     |
| Cooling       | Air              | Size              | 941x724x498mm |
| Autofocus     | Yes              | Weight            | 78kg          |

# Standard Parts List

| ITEM           | QTY | PIC   | ITEM             | QTY | PIC   |
|----------------|-----|---|------------------|-----|---|
| Ethernet Cable | 1   |   | Power Cord       | 1   |   |
| USB-PC Cable   | 1   |  | Air Blowing Ball | 1   |  |
| Q-Tips         | 1   |  | Screwdriver Set  | 5   |  |

# Parameter For Thunder Bolt

| Materials   | Thickness (mm) | Processing | Speed (mm/s) | Min Power (%) | Max Power(%) | Air pressure value | DPI |
|-------------|----------------|------------|--------------|---------------|--------------|--------------------|-----|
| Birch Ply   | /              | Engraving  | 1000mm/s     | 50%           | 50%          | low                | 350 |
|             | 3mm            | Cutting    | 10mm/s       | 10%           | 90%          | high               |     |
|             | 6mm            | Cutting    | x            | x             | x            | x                  |     |
|             | 10mm           | Cutting    | x            | x             | x            | x                  |     |
| Cherry Wood | /              | Engraving  | 1000mm/s     | 40%           | 40%          | low                | 350 |
|             | 3mm            | Cutting    | 20mm/s       | 10%           | 90%          | high               |     |
|             | 5mm            | Cutting    | 10mm/s       | 10%           | 90%          | high               |     |
|             | 11mm           | Cutting    | x            | x             | x            | x                  |     |

| Materials         | Thickness (mm) | Processing      | Speed (mm/s) | Min Power (%) | Max Power(%) | Air pressure value | DPI |
|-------------------|----------------|-----------------|--------------|---------------|--------------|--------------------|-----|
| MDF               | /              | Engraving       | 1000mm/s     | 50%           | 50%          | low                | 350 |
|                   | 3mm            | Cutting         | 20mm/s       | 10%           | 90%          | high               |     |
|                   | 10mm           | Cutting         | x            | x             | x            | x                  |     |
| Acrylic           | /              | Engraving       | 1000mm/s     | 50%           | 50%          | low                |     |
|                   | 3mm            | Cutting         | 15mm/s       | 10%           | 90%          | high               |     |
|                   | 5mm            | Cutting         | 5mm/s        | 10%           | 90%          | high               |     |
|                   | 10mm           | Cutting         | 2mm/s        | 10%           | 90%          | high               |     |
| EVA Foam          | /              | Engraving       | 1000mm/s     | 10%           | 10%          | low                |     |
|                   | 10mm           | Cutting         | 20mm/s       | 10%           | 90%          | high               |     |
| Cork              | /              | Engraving       | 1000mm/s     | 20%           | 20%          | low                |     |
|                   | 3mm            | Cutting         | 60mm/s       | 10%           | 90%          | high               |     |
| Bamboo            | /              | Engraving       | 1000mm/s     | 60%           | 60%          | low                |     |
|                   | 3mm            | Cutting         | 7mm/s        | 10%           | 90%          | high               |     |
| Cotton Fabric     | /              | Engraving       | 1000mm/s     | 40%           | 40%          | low                |     |
|                   | 1mm            | Cutting         | 160mm/s      | 10%           | 90%          | high               |     |
|                   | 3mm            | Cutting         | 140mm/s      | 10%           | 90%          | high               |     |
| Cardboard         | /              | Engraving       | 1000mm/s     | 50%           | 50%          | low                |     |
|                   | 3mm            | Cutting         | 15mm/s       | 10%           | 90%          | high               |     |
|                   | 4mm            | Cutting         | 4mm/s        | 10%           | 90%          | high               |     |
| Leather           | /              | Engraving       | 1000mm/s     | 50%           | 50%          | low                |     |
|                   | 1.5mm          | Cutting         | 20mm/s       | 10%           | 90%          | high               |     |
|                   | 3mm            | Cutting         | 5mm/s        | 10%           | 90%          | high               |     |
| Denim             | /              | Engraving       | 1000mm/s     | 20%           | 20%          | low                |     |
|                   | 1mm            | Cutting         | 150mm/s      | 10%           | 90%          | high               |     |
| Rubber            | /              | Stamp Engraving | 150mm/s      | 25%           | 80%          | high               | 400 |
|                   | 2.3mm          | Cutting         | 10mm/s       | 10%           | 90%          | high               |     |
| Delrin            | /              | Engraving       | 1000mm/s     | 20%           | 20%          | low                |     |
|                   | 1mm            | Cutting         | 45mm/s       | 10%           | 90%          | high               |     |
|                   | 3mm            | Cutting         | 5mm/s        | 10%           | 90%          | high               |     |
|                   | 5mm            | Cutting         | 3mm/s        | 10%           | 90%          | high               |     |
| Melamine          | /              | Engraving       | 1000mm/s     | 50%           | 50%          | low                |     |
|                   | 1mm            | Cutting         | 4mm/s        | 10%           | 90%          | high               |     |
| Paper             | /              | Engraving       | 1000mm/s     | 5%            | 5%           | low                |     |
|                   | 0.6mm          | Cutting         | 200mm/s      | 10%           | 90%          | high               |     |
| Mylar             | /              | Engraving       | 1000mm/s     | 90%           | 90%          | low                |     |
|                   | 1.5mm          | Cutting         | 15mm/s       | 10%           | 90%          | high               |     |
| Anodized Aluminum | /              | Engraving       | 1000mm/s     | 50%           | 50%          | low                |     |
| Coated Metals     | /              | Engraving       | 1000mm/s     | 60%           | 60%          | low                |     |