

Slate & Granite Products

JOHNSONPLASTICS
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SLATE & GRANITE PRODUCTS - Laser Engraving

MCH054 | MCH045 | MCH046 | MCH040 | MCH041 | MCH042 | MCH055 | MCH043 | MCH044 | MCH047 | MCH048 | SPK044 | ST2535 | SSC10 | STM2030 | SRT3 | RSC10 | RTM25 | RS2510 | SRT4 | HTM25 | SGS79 | RS2518 | SF2519 | SF2621 | STT5 | BTM3320 | SST5 | SHS5 | STBC811 (slate portion) | STBC158 (slate portion) | STBC1410 (slate portion) | STBC913 (slate portion) | STBC12 (slate portion)



GENERAL LASER ENGRAVING PROCESS

Recommended Equipment & Accessories

- CO2 Laser Engraver
- Clean Towel and water

Recommended Settings- Laser Engraving	
60-75W lasers	
Laser Power	30-40%
Laser Speed	80-100%
Resolution (DPI/PPI)	600DPI

Recommended Settings- Laser Engraving for Paint Fill Applications	
60-75W lasers	
Laser Power	100%
Laser Speed	5-10%
Resolution (DPI/PPI)	600DPI

Recommended Settings- Laser Engraving	
40W FIBER lasers	
Laser Power	40-50%
Laser Speed	10-20%
Frequency	50-100

General Laser Engraving Instructions

- Place the slate product onto the laser bed and align to the zero point on the laser bed.
- Adjust the laser focus to the surface of the slate product.
 - As a natural substrate, slate has an uneven surface. To ensure equipment safety and optimal results, focus to the highest point on the uneven surface of the slate product.
- Once the artwork is positioned, engrave using the suggested starting settings.
 - Settings may need adjusted depending on the laser tube wattage.
- When finished, remove the slate product from the laser bed.
- If cleanup is needed, wipe the surface with a clean cotton cloth lightly misted with water.

Tips and Tricks

- Fiber laser marking produces a brighter mark than a CO2 laser source offering more contrast between the mark and the darkness of the slate.
- To help with artwork placement, utilize the product template for this item, found on the item's product page on jpplus.com/.

Troubleshooting

- The engraving is too shallow.
 - Laser power setting and/or resolution may need to be increased.
 - Laser speed setting may need to be decreased.
 - Check laser focus.
 - Check and clean laser lenses and mirrors.
 - Check laser alignment. (see laser users manual on how to check and adjust laser beam alignment)
- The engraving is too deep.
 - Laser power setting and/or resolution may need to be decreased.
 - Laser speed setting may need to be increased.
- The engraved area is charring/melting.
 - Laser power setting and/or resolution may need to be decreased.
 - Laser speed setting may need to be increased.
- The edges along the laser cut line are curling.
 - Laser power setting may need to be decreased.
 - Laser speed setting may need to be increased.
 - Use a laser cutting ("honeycomb") grid insert to set the product up off of the solid metal laser bed.
 - Use air assist if available.

Templates and Images

- Visit jpplus.com to find the product page for this item. The product template may be found under the Tech Docs and Downloads area of the page.

To order more of this product, see similar products and much more, please visit jpplus.com.

For additional product support and troubleshooting, please contact JPPlus Advanced Support Team:

- Phone: 419-500-4877
- Email: ast@jpplus.com
- Schedule an appointment: <https://jpplusadvancedsupport.setmore.com/>