

# xTool F Series Comparison Guide

|                       | xTool F2                                                                                    | xTool F2 Ultra                                                                                                           | xTool F2 Ultra UV                                                                                      |
|-----------------------|---------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| Item #                | P1010148                                                                                    | P1010154                                                                                                                 | P0101000393                                                                                            |
| Laser Type            | 5W IR + 15W Diode                                                                           | 60W MOPA + 40W Diode                                                                                                     | 5W UV                                                                                                  |
| Best For              | Portable personalization and mixed-material engraving                                       | Production, metal engraving/cutting and broad material versatility                                                       | Precision marking, plastics, glass/crystal and heat-sensitive materials                                |
| Primary Strength      | Compact dual-laser versatility                                                              | Powerful metal processing + general fabrication                                                                          | Extremely fine, low-heat processing                                                                    |
| Dimensions            | 6.89" x 9.33" x 13.15"                                                                      | 11.6" x 16.9" x 20.5"                                                                                                    | 11.6" x 16.9" x 20.5"                                                                                  |
| Weight                | 10.14 lbs                                                                                   | 47 lbs                                                                                                                   | 49.6 lbs                                                                                               |
| Work Area             | 4.53" x 4.53"<br>with optional slide extension: 4.5" x 15.75"                               | 8.6" x 8.6"<br>with optional conveyor: 8.6" x 19.69"                                                                     | Surface engraving: 7.9" x 7.9"<br>Inner engraving: 2.8" x 2.8"<br>with optional conveyor: 7.9" x 19.7" |
| Max Processing Height | 4.72"                                                                                       | 5.91"                                                                                                                    | 5.91"                                                                                                  |
| Max Processing Speed  | 6,000 mm/s                                                                                  | 15,000 mm/s                                                                                                              | 15,000 mm/s                                                                                            |
| Max Cutting Thickness | Cut wood up to 0.59" in multiple passes                                                     | Metal: Up to 0.08" in multiple passes<br>Wood: Up to 0.91" in multiple passes<br>Acrylic: Up to 0.79" in multiple passes | Wood: Up to 0.59" in multiple passes<br>Acrylic: Up to 0.47" in multiple passes                        |
| Camera                | 50MP                                                                                        | Dual 48MP                                                                                                                | Dual 48MP                                                                                              |
| Ideal Customer        | Events, makers, gift shops, mobile personalization                                          | Production shops, jewelry, industrial marking, premium personalization                                                   | Awards/crystal, plastics, electronics, industrial identification and precision applications            |
| Power Supply          | 100 V / 120V AC (50/60Hz)                                                                   | 110 V / 220 V AC, 50/60 Hz                                                                                               | 110 V / 220 V AC, 50/60 Hz                                                                             |
| Connectivity          | Wi-Fi / USB / IP                                                                            | Wi-Fi / USB / IP                                                                                                         | Wi-Fi / USB / IP                                                                                       |
| Operating Systems     | Windows 10 (64-bit) or later, macOS 10.15 (Catalina) or later / macOS 11 (Big Sur) or later | Windows 10 (64-bit) or later, macOS 10.15 (Catalina) or later / macOS 11 (Big Sur) or later                              | Windows 10 (64-bit) or later, macOS 10.15 (Catalina) or later / macOS 11 (Big Sur) or later            |
| Warranty              | 1 Year Manufacturer Warranty                                                                | 1 Year Manufacturer Warranty                                                                                             | 1 Year Manufacturer Warranty                                                                           |

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# xTool F Series Materials Comparison Guide

|                            | xTool F2                                                                                                                                                      | xTool F2 Ultra                                                                                                                                                                                                                                                    | xTool F2 Ultra UV                                                                                                      |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| Engraving Materials        | <b>Diode:</b> wood, paper, leather, coated metal, dark opaque acrylic. <b>IR:</b> plastic, stainless steel, gold, silver, platinum & other compatible metals. | <b>Diode:</b> wood, MDF, bamboo, paper, leather, fabric, dark acrylic, dark glass, ceramic, jade, marble, shale, cement, brick, plated & painted metals. <b>MOPA:</b> stainless steel, aluminum, brass, plastic, platinum, titanium, gold, silver & other metals. | Glass, crystal, acrylic, wood, metal, leather, plastics including ABS/PC/PVC, rubber, silicone, ceramic, stone & more. |
| Cutting Materials          | Paper, wood, leather, MDF, felt & some dark opaque acrylic with the diode laser.                                                                              | <b>Diode:</b> paper, wood, leather, MDF, felt & some dark opaque acrylic. <b>MOPA:</b> brass, stainless steel & aluminum                                                                                                                                          | Glass, plastics such as PE, PP, EVA and PET, fabric, leather, acrylic, paper, wood & more.                             |
| Wood                       | ✓<br>Excellent                                                                                                                                                | ✓<br>Excellent                                                                                                                                                                                                                                                    | ✓<br>Excellent for detailed, clean marking                                                                             |
| Leather                    | ✓                                                                                                                                                             | ✓                                                                                                                                                                                                                                                                 | ✓<br>Especially useful when reduced burning is important                                                               |
| Paper / Cardstock          | ✓                                                                                                                                                             | ✓                                                                                                                                                                                                                                                                 | ✓                                                                                                                      |
| Fabric / Felt              | ✓<br>Cutting                                                                                                                                                  | ✓                                                                                                                                                                                                                                                                 | ✓                                                                                                                      |
| Dark Acrylic               | ✓<br>Engraving / Cutting                                                                                                                                      | ✓<br>Engraving / Cutting                                                                                                                                                                                                                                          | ✓<br>Engraving / Cutting                                                                                               |
| Clear / Specialty Acrylic  | ⚠<br>Limited                                                                                                                                                  | ⚠<br>Limited with diode                                                                                                                                                                                                                                           | ✓<br>Best of the three for many acrylic applications                                                                   |
| ABS / Engineering Plastics | ✓<br>IR engraving on compatible plastics                                                                                                                      | ✓<br>MOPA engraving                                                                                                                                                                                                                                               | ✓<br>Major strength: UV works with many plastics including ABS, PC, PVC and silicone                                   |
| Stainless Steel            | ✓<br>Mark/engrave with IR                                                                                                                                     | ✓<br>Deep engrave, color mark + cut                                                                                                                                                                                                                               | ✓<br>Fine precision engraving                                                                                          |
| Aluminum                   | ✓<br>Compatible applications                                                                                                                                  | ✓<br>Engraving / Cutting                                                                                                                                                                                                                                          | ✓<br>Precision engraving                                                                                               |
| Brass                      | ✓<br>Compatible applications                                                                                                                                  | ✓<br>Engraving / Cutting                                                                                                                                                                                                                                          | ✓<br>Precision engraving                                                                                               |

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|                          | xTool F2                             | xTool F2 Ultra                                 | xTool F2 Ultra UV                       |
|--------------------------|--------------------------------------|------------------------------------------------|-----------------------------------------|
| Gold / Silver / Platinum | ✓<br>Excellent for jewelry marking   | ✓<br>Excellent for deeper/high-speed engraving | ✓<br>Fine precision engraving           |
| Titanium                 | ✓<br>Compatible IR applications      | ✓<br>MOPA engraving + color applications       | ✓<br>Fine precision engraving           |
| Ceramic / Stone          | ⚠<br>Limited                         | ✓<br>Diode engraving                           | ✓                                       |
| Glass                    | ⚠<br>Limited / application dependent | ⚠<br>Dark/coated glass applications            | ✓<br>Excellent                          |
| Crystal                  | ✗<br>No internal engraving           | ✗<br>No internal engraving                     | ✓<br>Surface + 2D/3D internal engraving |
| Rubber / Silicone        | ⚠<br>Application dependent           | ⚠<br>Application dependent                     | ✓<br>Excellent UV application           |
| Metal Cutting            | ✗                                    | ✓<br>Brass, stainless steel and aluminum       | ✗                                       |
| Color Metal Marking      | ⚠<br>Some capability                 | ✓<br>Major MOPA advantage                      | ✗                                       |