# xTool P2 Class 1 & Class 4 Differences

#### 1. Regulatory different

Class I devices: Applicable for EN80625-1:2014 Class I or FDA Laser classes I.

Class IV devices: Applicable for EN80625-1:2014 Class IV or FDA Laser classes IV

#### 2. Function different

Class 1 laser machines can't work without the baseplate in place, and therefore the working area is above the baseplate.

No processing can be performed without the baseplate in place.

	Processing type	Baseplate detection
Class 1	<ul> <li>Laser flat (with baseplate installed)</li> </ul>	No processing can be performed without the baseplate in place.
	Roller mode of Laser cylindrical	Processing will be canceled if the baseplate is removed during the processing
Class 4	Laser flat (with and without baseplate installed)	Baseplate detection is performed for some processing types.
	<ul> <li>Laser cylindrical (Roller and chunk mode)</li> </ul>	
	Open plane	
	Curve process	
	• Conveyor feeder	

## Functions supported by Class 1 and Class 4 laser machines

Function 46	Subfunction	Class	Class 1	Remarks 1524 7 13.55
Device connection	USB, Wi-Fi, IP, Ethernet	<b>V</b>	V AND NO	
Device panel	Distant shot	<b>V</b>	<b>V</b>	
	Close shot	くい時報	38	
Measureme nt	Aimed measure	2.55	<b>V</b>	
	Quick measure	<b>V</b>	✓赖炔	
Processing type	Laser flat	<b>V</b>	<b>V</b>	
	Laser cylindrical	<b>ノ</b> 化营業が	<b>√</b>	With the baseplate in place, Class 1 laser machines support only the rollers of a rotary attachment, and do not support the chuck.
	Open plane	<b>V</b>	x the	
	Passthrough	<b>V</b>	X	
	Laser curve	<b>V</b>	X	
	Conveyor feeder	化营销	X	

### **Tech Parameters**

Product Infomation	Class I	Class IV
Rated Power	55W(CO <sub>2</sub> Glass Laser Tube)	55W(CO <sub>2</sub> Glass Laser Tube)
Package Size	44.4"×28.6"×13.6"(1122× 727×346mm)	44.4"×28.6"×13.6"(1122× 727×346mm)
Product Size	39.4"×25.1"×10.6" (1000×639×268mm)	39.4"×25.1"×10.6" (1000×639×268mm)
Product Weight	45KG	45KG
Max. Engraving Speed	600mm/s	600mm/s
Processing Precision	0.01mm	0.01mm
<b>Z-axis Movement</b>	2.7"(68mm)	3"(75mm)
Lifespan	6000~8000h	6000~8000h
Safety Guard	Class I (FDA Certified)	Class IV (FDA Certified)
Laser Spot Work Area	0.15×0.2mm	0.15×0.2mm
Bed Size	26.7"×14.1"(680*360mm)	26.7"×14.1"(680*360mm)
Processing Area	23.6"×12.1"(600*308mm)	23.6"×12.1"(600*308mm)
Max. Workpiece Height	2.5"(64mm)	With tray 2.5"(64mm) Without tray 2.7"(71mm) With riser base
		8.5"(215mm)
Max. Passthrough Width	20.	Without riser base 27.6"(700mm)

Max. Passthrough Height  Rotary engraving diameter with tray	Roller:3-42mm Chuck:X	With riser base 25.2"(640mm)  width 0-599mm: 30mm width 600-700mm: 18mm With riser base 112mm  Roller:3-42mm Chuck: x
Rotary engraving diameter without tray	地化营销部	Roller:3-50mm Chuck:x
Rotary engraving diameter with riser base	1世26-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5	Roller:3-180mm Chuck:0-100mm
Al Camera Information		
Camera	Long-range camera + close-range camera	Long-range camera + close-range camera
Number of Pixels (Effective)	16MP×2	16MP×2
Vision Precision	1/12·55	
期以外一内部外,自261	0.3mm	0.3mm
Image Resolution	1000DPI	0.3mm 1000DPI
	赖决心中	
Image Resolution	1000DPI	1000DPI
Image Resolution Focus Mode	1000DPI Autofocus	1000DPI Autofocus
Image Resolution  Focus Mode  Positioning	1000DPI Autofocus	1000DPI Autofocus

Air Assist (adjustable)	15-150Kpa	15-150Kpa	
Exhaust Fan	145CFM	145CFM	
Software and Connection			
Operating Systems	Windows / macOS / iPadOS	Windows / macOS / iPadOS	
Control Software	xTool Creative Space / LightBurn	xTool Creative Space / LightBurn	
Supported File Type	SVG, DXF, JPG, JPEG, PNG, BMP	SVG, DXF, JPG, JPEG, PNG, BMP	
Connection / Transmission	Wi-Fi, USB, Ethernet	Wi-Fi, USB, Ethernet	

