

	Engraving Plastic		Coated Metal		Acrylic		Wood		Black Marble		Black Granite		Cermark Coated Metal		*Rubber Stamp	
	Speed	Power	Speed	Power	Speed	Power	Speed	Power	Speed	Power	Speed	Power	Speed	Power	Speed	Power
Venus 30 watt	100	30	100	30	100	30	80	100	50	100	100	20	60	100	50	100
Mercury 30 watt	100	50	100	50	100	50	50	100	40	100	100	40	40	100	13	100
Mercury 60 watt	100	30	100	30	100	30	80	100	800	100	100	30	60	100	22	100
Mercury 100 watt	100	20	100	20	100	20	100	100	100	100	100	20	80	100	30	100
Spirit 30 watt	100	70	100	70	100	70	60	100	30	100	100	60	30	100	10	100
Spirit 60 watt	100	50	100	50	100	50	80	100	55	90	100	40	40	100	18	100
Spirit 100 watt	100	30	100	30	100	30	100	100	65	90	100	30	50	100	26	100
Spirit GE 30 watt	100	70	100	70	100	70	60	100	30	100	100	60	30	100	10	100
Spirit GE 60 watt	100	50	100	50	100	50	80	100	55	90	100	40	40	100	18	100
Spirit GE 100 watt	100	30	100	30	100	30	100	100	65	90	100	30	50	100	26	100
Explorer 30 watt	100	80	100	80	100	80	40	100	25	100	100	70	25	100	7	100
Explorer 60 watt	100	60	100	60	100	60	70	100	40	90	100	50	35	100	13	100
Explorer 100 watt	100	40	100	40	100	40	90	100	50	90	100	40	55	100	22	100
Spirit GX 30 watt	100	80	100	80	100	80	40	100	25	100	100	70	25	100	7	100
Spirit GX 60 watt	100	60	100	60	100	60	70	100	40	90	100	50	35	100	13	100
Spirit GX 100 watt	100	40	100	40	100	40	90	100	50	90	100	40	55	100	22	100
C180 30 watt	100	50	100	50	100	50	50	100	40	100	100	40	40	100	13	100
C180 40 watt	100	40	100	40	100	40	60	100	50	100	100	30	50	100	20	100

If your laser power is not displayed make adjustments based on the surrounding wattages. A 25 watt will be less speed or more power (depending on which is not at 100%) then a 30 watt of the same model.

All Setting are starting points. With lasers Power and Speed are directly correlated. If you are at 100% speed and need to go deeper increase power.

If you are at 100% Power go slower. One value should almost always be 100% whether it is Power or Speed depends on the machine you own, and the material you are working with. The above settings are for Engraving/Raster. There is no need to adjust PPI.

When Cutting/Vector most materials work well at 400 PPI. Acrylic should be set at 1000+ PPI. Never use X PPI for any material. If the material is burning or melting at the required speed setting to cut through, reduce the PPI to improve results. PPI = Pulses Per Inch.

* Rubber stamp settings should be adjusted for different materials to achieve a depth of .035" -.045" depth Cut at 70 PPI so stamps stay together as a sheet for washing and cleaning. Stamps can be pulled apart as they 70 PPI will perforate the sheet when vectoring out the individual stamps.