

## Specification

Type	parameter	Specifications
Basic parameter	Name	CNC Router
	Model NO.	TTC450 Pro
	Technology	CNC
	Color	Red + Black
	Material	Aluminum + stainless steel + injection molded parts
	Shell Material	Aluminum
	Item Dimension	742mm X 689mm X 413mm
	Working Dimension	460mm X 460mm X 80mm (18.1in*18.1in*3.14in)
	Support tool diameter	0.5MM to 7mm(ER11 chuck)
	Engrave material	Plywood/density board/solid wood board/acrylic/carbon fiber/aluminum/copper/stainless steel
	NW	15.45KG
	GW	20.6KG
Power parameter	Power	24V3A
	Switch power	INPUT:100AC-240AC 50GHZ OUTPUT:DC24V/3A
	Voltage	24V
	Power	72W
	Standby power	10W
System parameters	Mainboard	TWO TREES CNC KIT V1.3
	Touch screen	3.5 inch IPS Capacitive touch color screen  (480*320 resolution)
	Firmware type	GRBL is open source and supports both CNC and lasers (no need to flash firmware)
	X axis	A4988
	Y axis	A4988

	Z axis	A4988
	A axis	A4988
	Wifi-2.4G Hz	support (Build-in)
	Wifi-5G Hz	No support
	Bluetooth	No support
	Lan	No support
	TF Card	support
	USB	support
	U Flash	No support
Mechanical parameters	Type	XYZ
	Frame structure	Sheet metal + aluminum profile + injection molded parts + stainless steel
	X-axis motor model	42 stepper motor 17HS6001
	Y-axis motor model	42 Stepper Motor 17HS8401S (Quantity 2)
	Z-axis motor model	57 stepper motor H56MM D axis 8MM 2.8A 1.2N
	Zero position	Lower left corner (customizable)
	XY Limiter model	TM-1618D micro switch (double limit)
	Z Limiter model	3635 side push tact switch (double limit)
	Transmission screw model	T8 lead 4MM screw
	Transmission roller model	X, Y, Z axis 6cs MR105 POM small wheel
X/Y Axis positioning accuracy	0.01mm	

	Z Axis positioning accuracy	0.0025mm
	Engraving precision	100±0.05mm
	Engraving Speed	800mm/min
	Max Speed	1000mm/s <sup>2</sup>
Spindle parameters	Spindle motor	775 Brush motor (standard) 500W Spindle  800/2000/3000W AC trimming machine  BLDC4475 Brushless motor
	Spindle speed	Depending on the installation, the spindle speed range is 8000-30000RPM.
	Tool size	Supports 0.5-6MM diameter tools according to the inner hole size of ER11 collet
	Engraving height	Not metal 0.1mm-20mm metal 0.1mm-0.2mm
Touch screen function	motion control	support
	emergency stop	support
	speed control	support
	tool control	support
	Laser/CNC function switching	support
	Accuracy calibration	support
	language	Support (Chinese/English/German/Russian/Japanese/French/Portuguese/Spanish)
Online help	support	

Compatibility parameters	Programming software	Artcam、Fusion360、EASEL、Carveco Maker ect
	Support system	MacOS\Windows\Linux
	Software language	Chinese\English\Spanish\Germany\France-Russian\Portuguese\Italian\Japanese\Korea\Turkey
	Program formats	.nc\Gcode
certification	certification	CE-EMC/CE-LVD/CE-MD/CE-RED/ROHS/FCC-Sdoc/FCC-ID
Environmental parameters	temperature	0°~40°





