

## Fiber laser cutting machine maintenance requirements

Equipment at a specific period of time need to do the most basic routine maintenance and repair to ensure the normal operation of equipment to extend equipment life. Fiber laser cutting maintenance provisions are as followings:

	PER DAY	PER WEEK	3 MONTHS	6 MONTHS	1 YEAR	2 YEARS	3 YEARS	4 YEARS
1	Clean laser head, mirrors and nozzle	Clean X, Y, and Z axis and guide	Check the gear rack	Check each component in the control cabinet dust removal	Clean the hose or if need to replace it	If need to replace the air filter element	If need to change ball screw's guide and ball bearings	A whole working bed check
2	Power on, laser head back to the origin	Exchange table loose chain or not	Check if any loosen of laser head	Check the shaft dust cloth of each axis	Check the electric relay if need to change	If need to replace chiller water filter	If need to change the chain	
3	Laser nozzle and laser light coaxiality	If it has any drained water in the filter or not	Chiller constant (18-28) degrees	Check if any loosen of the exchange table back door screws	Clean the dust in the electrical cabinet	If need to replace aged hose and pipe	If need to change the transmission gear	
4	Control panel and emergency stop button	Check exchange table limit switch and bracket block	Clean motor and check if any loosen	If need maintenance for air compressor	Clean laser source	If need to change ball screw rail guide's ball bearings	If need to replace the high-pressure gas pipe	
5	Check gas pressure	If there is any foreign matter on the limit switch	Check if air compressor working properly	If need to replace the air filter element	Check the cable contact and tight	If need to replace photoelectric trip switch and proximity switch	If need to replace the safety relay	
6	Assist gas leaks or not	Clean the slag car	Check chiller antifreeze or pure water	Check if need to replace the focusing lens, collimator lens	Check the cutting gear if need to replace		If need to change PC	
7	Air filtration and change water	Clean foreign matter on rail guide and working bed			Check if need to change focusing lens and collimator lens			
8	if the water leaks	Change pure water of industry chiller						
9	If working bed has abnormal noise							
10	Z axis manual oiling 2 times							

