

## 6KW CO2 Laser Cladding

### Numerical control machine

Adopting **bracket -movement style** flight path movement form,with X YZ 3 axis linear motion function and swing function ;machine tool equipped one vertical rotary worktable(A axis ) and another horizontal rotary worktable(C axis);X,Y.Z and A or C axis form a five axis four linkage processing system .

Power instability:  $\leq \pm 3\%$ ;

beam divergence angle:  $\leq 5\text{mrad}$ ;

Speed of XYZ axis :0~5000mm/min

### Technical parameter of each part

HAN<sup>☆</sup>SGS-TFL-6K laser source

output rating: 6KW;

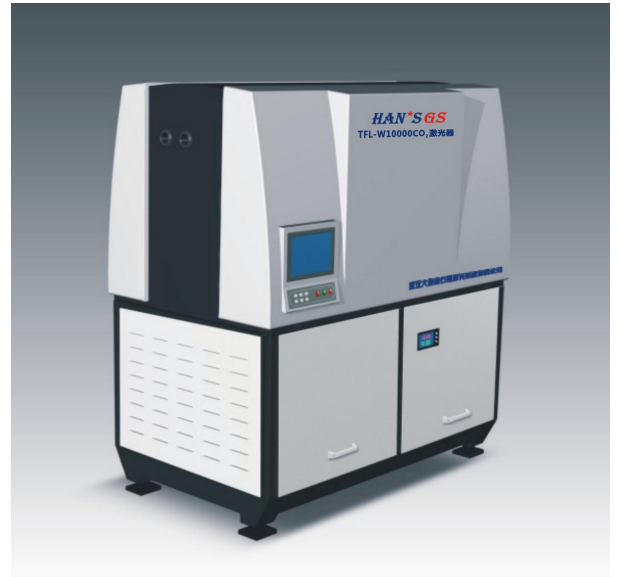
Discharge mode: needle plate discharge;

Output mode: continuous wave output;

Output power adjustment

range:200—6000W;

Output wavelength: 10.6 $\mu\text{m}$ ;



### Specification:

Model	GS-TFL-6K/10K		
Laser source	TFL-6K/10K laser source/ semi-Laser source conductor laser source		
Optical system	Fly optical path, Light path diameter $\phi 70$		
	Manual type swing bald,Turning Angle $\pm 60^\circ$ manual adjustment		
CNC machine tools			
model	2 M	2.5 M	3.5 M
Working area (mm)	2000*600*500	2500*1000*5000	3500*1000*500

X, Y, Z axle working speed	0 - 5000 m/min		
Location accuracy	$\pm 0.1$ mm / 300 mm		
Relocation accuracy	$\pm 0.05$ mm		
Horizontal rotating table			
Max. chuck diameter	Three claw $\Phi$ 500/center height 500mm	Four claw $\Phi$ 630/center height 690mm	Four claw $\Phi$ 630/center height 800mm
Rotating speed	0.5 - 15 rpm	0.05 - 5 rpm	0.05 - 5 rpm
Platform size(mm)	3860 * 1450 * 280	5560 * 1000 * 280	7000 * 1200 * 350
Center shaft	Bearing diameter $\Phi$ 100- $\Phi$ 350 one set	Bearing diameter $\Phi$ 370- $\Phi$ 630 two set s	Bearing diameter $\Phi$ 370- $\Phi$ 630 two set s
Max. Length of workpiece	2500 mm	3500 mm	4000 mm
Max. Diameter of workpiece	$\Phi$ 800	$\Phi$ 1350	$\Phi$ 1500
Max. Weight of workpiece	5 T	10 T	15 T
Control system	Siemens Siemens 828D AC servo motor		

**Note : Single layer perforating, Bottom layer without hole can be realized during the double layer plastic.**

### Customer visit & Our Company

