

# I3LINEAR SERIES

## Ultra-precision Fully-enclosed Single Table Plate Fiber Laser Cutting Machine



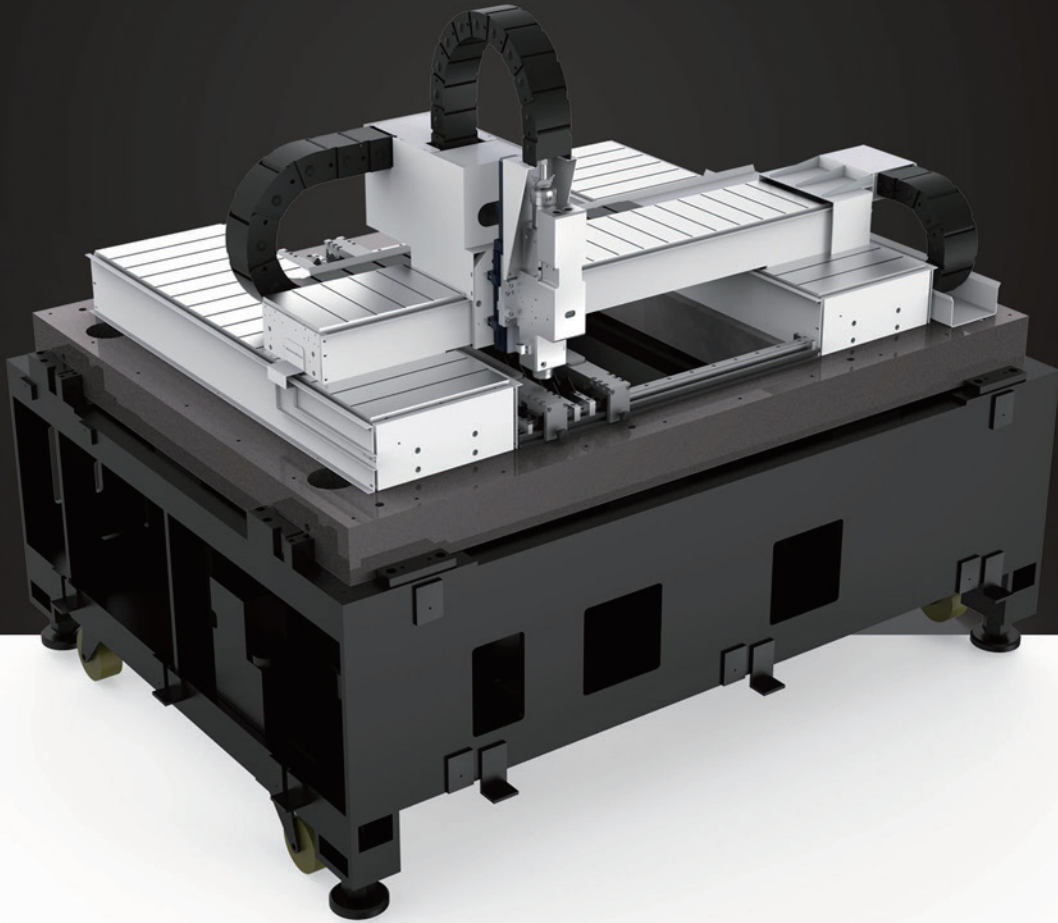
### Precise Laser Cutting Machine--i3 Linear

The equipment meets the parts processing requirements of most industries, working accuracy is stable. Selecting the optimal force and supporting structure, the overall mechanical property of equipment is perfect. Adopting cutting-edge optical concept to improve cutting performance. High speed cutting, auxiliary loading and unloading and efficient production reduce labor costs. At present, laser cutting machines have been widely used in electronics, electrical, mechanical hardware, new energy lithium, packaging, solar, LED, automotive and other industries.

### Product parameters

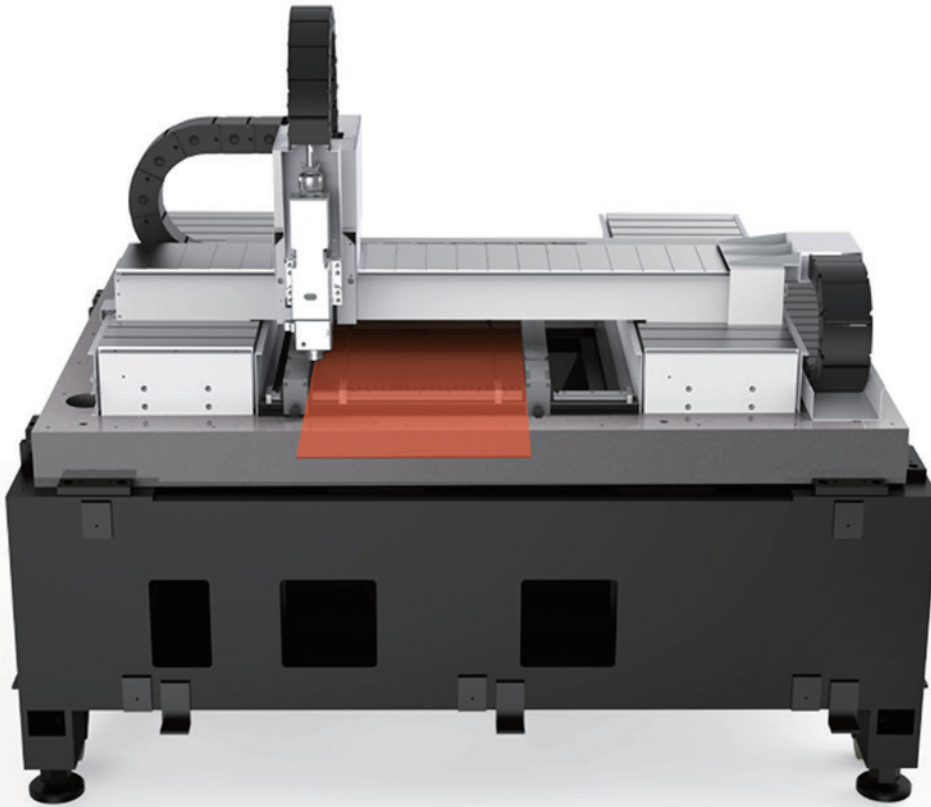
Model	i3 Linear
Working area	600*600mm
Laser power	3000w/2000w/1500w/1000w
X/Y-axis positioning accuracy	0.01mm
X/Y-axis repositioning accuracy	0.004mm
Max. linkage speed	80m/min

# MARBLE COUNTERTOP IS MORE PROFESSIONAL



Adopting marble countertop, high precision, low linear expansion coefficient; no rust, easy to maintenance; acid and alkali resistance; high hardness, wear resistant, antimagnetic; ensuring the stability of accuracy during high-speed operation, improving processing performance.

## Air jig makes position more accurate



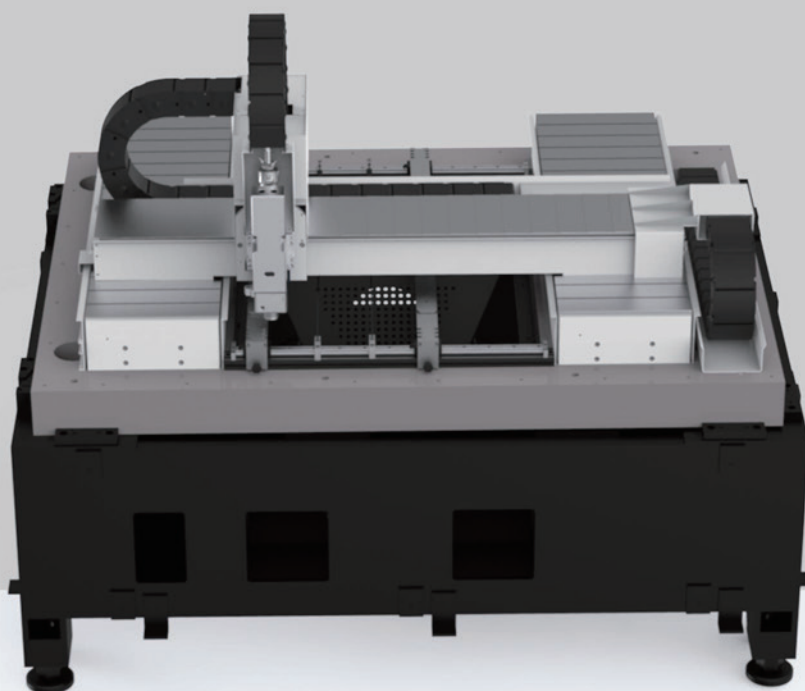
Cutting parts use air jig to fix cutting materials and improve position accuracy. The blade distribution is automatically adjusted according to both sides of splints to prevent material leaking. Suitable for thin plate, the thinnest plate it can hold is 0.3mm plate, improving the machining precision.

# Small processing area, flexible and space saving



## Small processing area, flexible and space saving

Processing area is 600x600mm, saving more space and resources, the equipment can be moved flexibly.



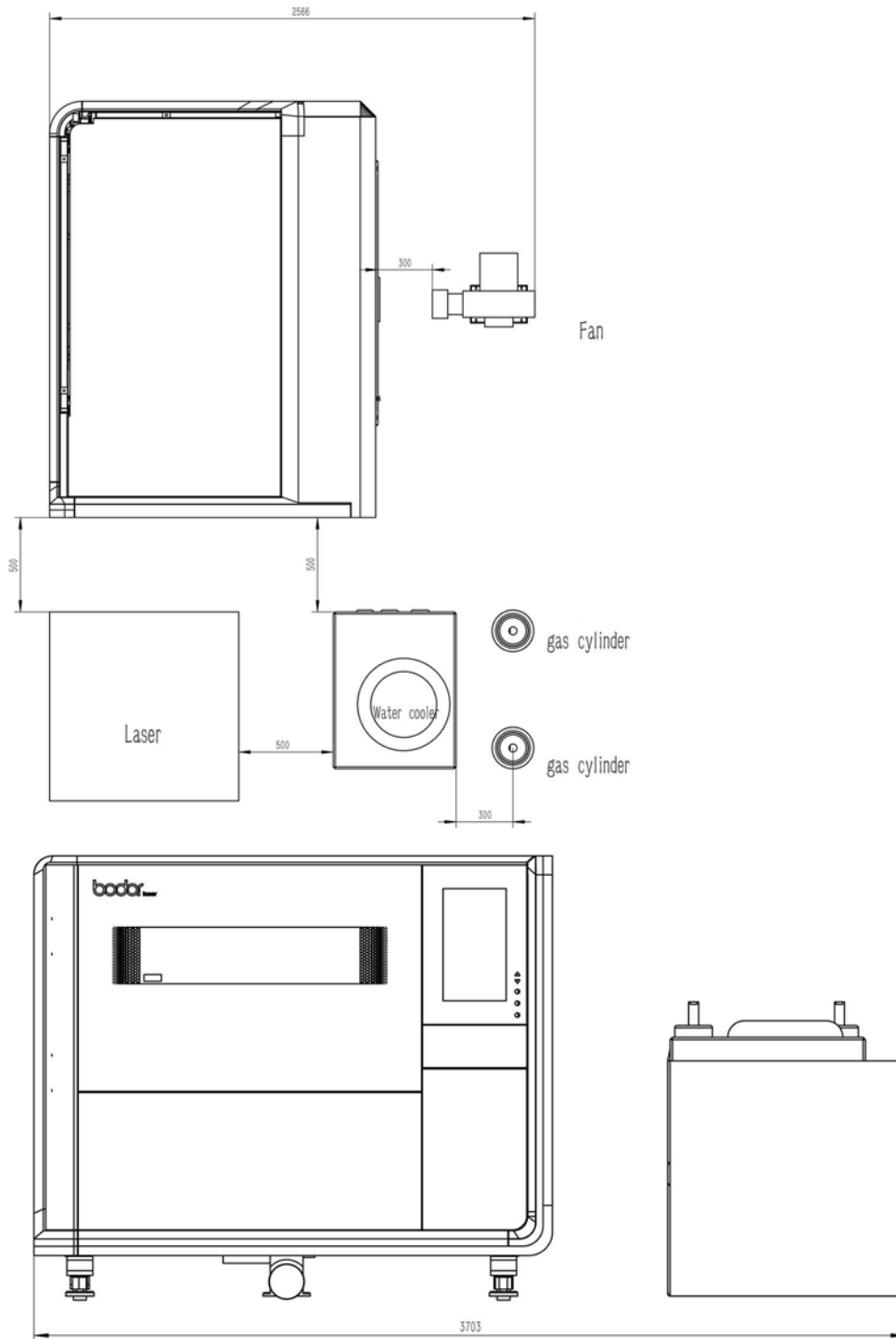
## Strong stability, high precision, 20 years without deformation

Adopted carbon structural steel with good toughness, ductility, welding performance and thermal processing; Stress annealing and vibration aging treatment eliminate the stress in welding and processing of machine bed, the machine bed precision is long-lasting. Excellent mesh three-dimensional machine bed structure, strict heat treatment process and sophisticated processing level ensure the high-performance processing characteristics of the equipment;

Strong stability, high precision, accuracy is long-lasting, 20 years without deformation.



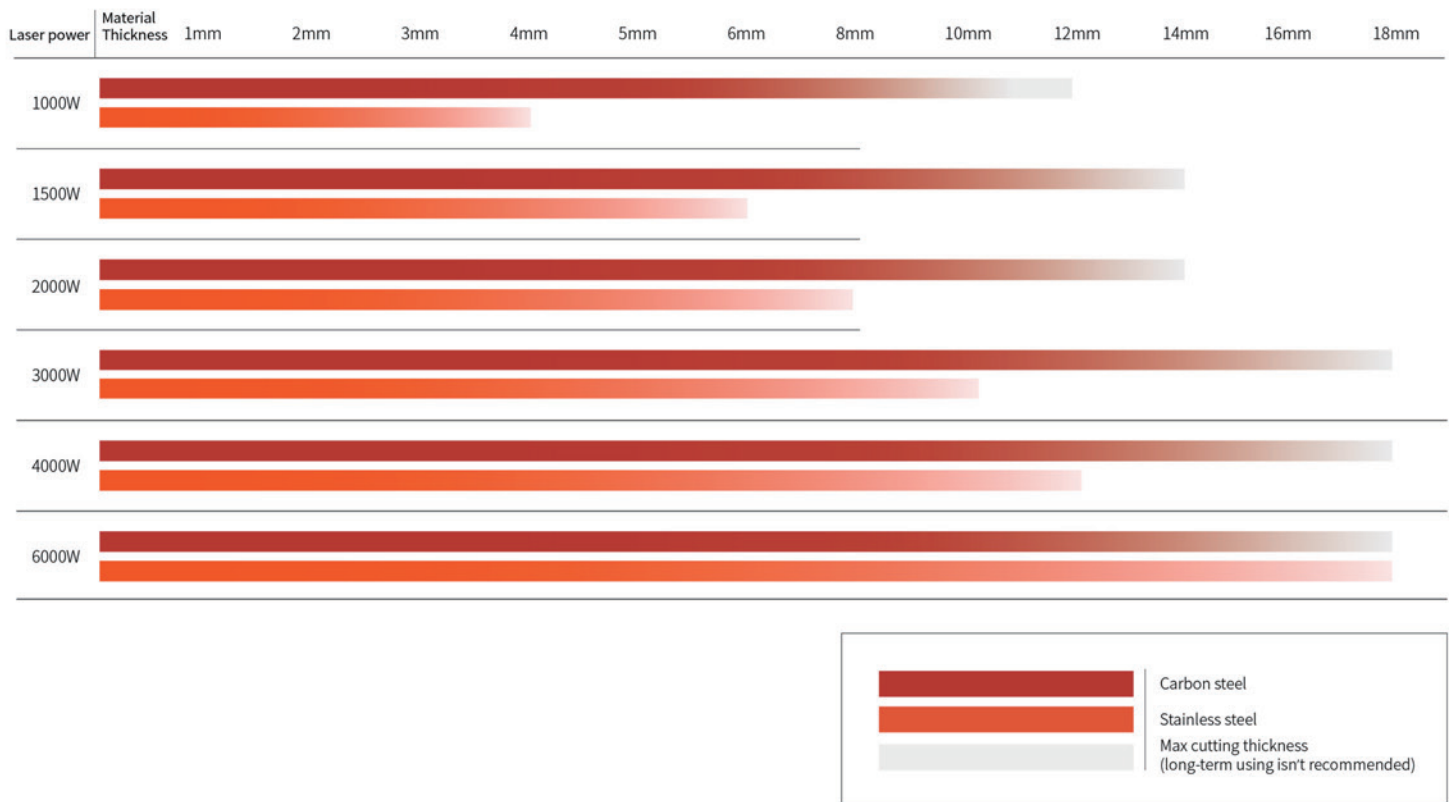
## i3 Linear • FLOOR PLAN



## PLACING REQUIREMENT

1. The whole machine should keep away from obstacles at least 1 m.
2. The whole machine should be far away from the hypocenter.
3. The planeness of placing field should be less than 5mm.
4. Voltage fluctuation of the whole machine should be kept in  $\pm 5\%$ .

## Cutting Capacity

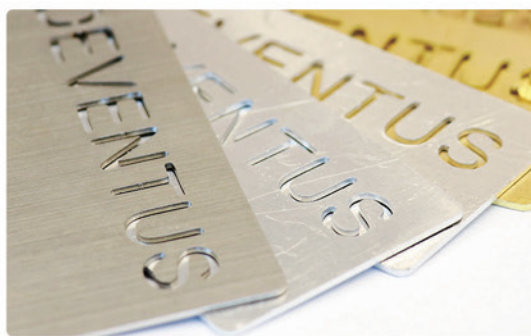
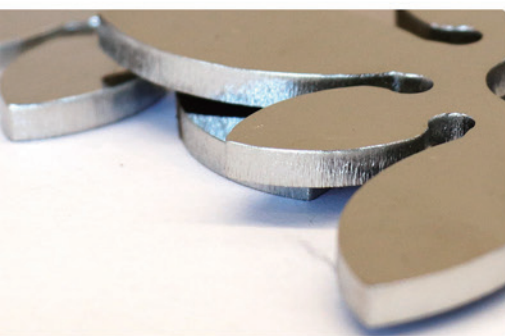


Above data is only for reference

## Fiber Laser Cutting Process Parameters

		1000W	MAX-1000W(25um)	1500W	2000W	MAX-2000W(50)	YLR-2000W	3000W	MAX-3000W(50)	4000W	MAX-4000W(50)	IPG 6000W
Material	Thickness	speed m/min	speed m/min	speed m/min	speed m/min	speed m/min	speed m/min	speed m/min	speed m/min	speed m/min	speed m/min	speed m/min
Carbon steel (Q235A) O2	1	8.0~10	8.0~10	8.0~10	8.0~10	8.0~10	8.0~10	8.0~10	8.0~10	8~10	8~10	No support
	2	4.0~6.5	4.5~7.0	4.5~6.5	4.7~6.5	4.7~6.5	4.7~6.5	4.8~7.5	4.8~7.5	5~7.5	5~7.5	
	3	2.4~3.0	2.4~3.0	2.6~4.0	3.0~4.8	3.0~4.8	3.0~4.8	3.3~5.0	3.3~5.0	3.5~5.0	3.5~5.0	
	4	2.0~2.4	2.0~2.4	2.5~3.0	2.8~3.5	2.8~3.5	2.8~3.5	3.0~4.2	3.0~4.2	3.0~4.0	3.0~4.0	
	5	1.5~2.0	1.5~2.0	2.0~2.5	2.2~3.0	2.2~3.0	2.2~3.0	2.6~3.5	2.6~3.5	2.7~3.6	2.7~3.6	
	6	1.4~1.6	1.4~1.6	1.6~2.2	1.8~2.6	1.8~2.6	1.8~2.6	2.3~3.2	2.3~3.2	2.5~3.4	2.5~3.4	
	8	0.8~1.2	0.8~1.2	1.0~1.4	1.2~1.8	1.2~1.8	1.2~1.8	1.8~2.6	1.8~2.6	2.0~3.0	2.0~3.0	
	10	0.6~1.0	0.6~1.0	0.8~1.1	1.1~1.3	1.1~1.3	1.1~1.3	1.2~2.0	1.2~2.0	1.5~2.4	1.5~2.4	
	12	0.5~0.8	0.5~0.8	0.7~1.0	0.9~1.2	0.9~1.2	0.9~1.2	1.0~1.6	1.0~1.6	1.2~1.8	1.2~1.8	
	14			0.5~0.7	0.7~0.8	0.7~0.9	0.8~1.0	0.9~1.2	0.9~1.2	0.9~1.2	0.9~1.2	
	16				0.6~0.7	0.6~0.8	0.6~0.8	0.7~1.0	0.7~1.0	0.8~1.0	0.8~1.0	
	18				0.4~0.6	0.5~0.7	0.5~0.7	0.6~0.8	0.6~0.8	0.6~0.9	0.6~0.9	
	20							0.5~0.8	0.5~0.7	0.5~0.8	0.5~0.8	
	22							0.3~0.7	0.3~0.7	0.4~0.8	0.4~0.8	
	25											
Stainless steel (201) N2	1	18~25	24~36	20~27	24~30	24~50	24~50	30~35	30~58	32~45	40~72	No support
	2	5~7.5	6~10	8.0~12	9.0~12	9.0~14	9.0~15	13~21	13~39	16~28	24~45	
	3	1.8~2.5	2.2~3.5	3.0~5.0	4.0~6.5	4.0~7.0	4.8~7.5	6.0~10	6~14	7.0~15	7.0~18	
	4	1.2~1.3	1.2~1.6	1.5~2.4	3.0~4.2	3.2~4.5	3.2~4.5	4.0~6.0	4.0~7.0	5.0~8.0	6.0~10.0	
	5	0.6~0.7	0.6~0.75	0.7~1.3	1.8~2.5	2.0~2.8	2.0~2.8	3.0~5.0	3.0~5.0	3.5~5.0	4.0~5.0	
	6			0.7~1.0	1.2~1.8	1.2~2.0	1.2~2.0	2.0~4.0	2.0~4.0	2.5~4.5	3.0~4.5	
	8				0.7~1.0	0.7~1.0	0.7~1.0	1.5~2.0	1.5~2.0	1.6~2.0	1.6~2.0	
	10							0.6~0.8	0.6~0.8	0.8~1.2	0.8~1.2	
	12							0.4~0.6	0.4~0.6	0.5~0.8	0.5~0.8	
	14									0.4~0.6	0.4~0.6	
	16											
	18											
	20											
	25											
Aluminum N2	1	6.0~10	6.0~10	10~20	15~25	15~25	20~30	25~38	25~40	35~45	35~45	No support
	2	2.8~3.6	2.8~3.6	5.0~7.0	7~10	7~10	10~15	10~18	13~20	13~24	13~24	
	3	0.7~1.5	0.7~1.5	2.0~4.0	4.0~6.0	4.0~6.0	5.0~7.0	6.5~8.0	6.5~8.0	7.0~13	7.0~13	
	4			1.0~1.5	2.0~3.0	3.5~4.0	3.5~5.0	3.5~5.0	3.5~5.0	4.0~5.5	4.0~5.5	
	5			0.7~1.0	1.2~1.8	1.2~1.8	1.8~2.5	2.5~3.5	2.5~3.5	3.0~4.5	3.0~4.5	
	6				0.7~1.0	1.0~1.5	1.0~1.5	1.5~2.5	1.5~2.5	2.0~3.5	2.0~3.5	
	8				0.6~0.8		0.6~0.8	0.7~1.0	0.7~1.0	0.9~1.6	0.9~1.6	
	10							0.4~0.7		0.6~1.2	0.6~1.2	
	12							0.3~0.45		0.4~0.6		
	16									0.3~0.4		
	20											
	25											
Brass N2	1	6.0~10	6.0~10	8.0~13	10~16	10~16	12~18	20~35	20~35	25~35	25~35	No support
	2	2.8~3.6	2.8~3.6	3.0~4.5	4.5~7.5	5.0~6.0	6.0~8.5	6.0~10	6.0~10	8.0~12	8.0~12	
	3	0.5~1.0	0.5~1.0	1.5~2.5	2.5~4.0	2.5~4.0	2.5~4.0	4.0~6.0	4.0~6.0	5.0~8.0	5.0~8.0	
	4			1.0~1.6	1.5~2.0	2.0~3.0	2.0~3.0	3.0~5.0	3.0~5.0	3.2~5.5	3.2~5.5	
	5			0.5~0.7	0.9~1.2		0.9~1.2	1.5~2.0	1.5~2.0	2.0~3.0	2.0~3.0	
	6				0.4~0.7		0.4~0.9	1.0~1.8	1.0~1.8	1.4~2.0	1.4~2.0	
	8							0.5~0.7		0.7~1.2		
	10									0.2~0.5		
	12											





## Metal Samples

For more information, please go to the website : [www.bodor.com](http://www.bodor.com)





## OFFICE

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# WORKSHOP

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