

BCA Writer

Carve-X BW10



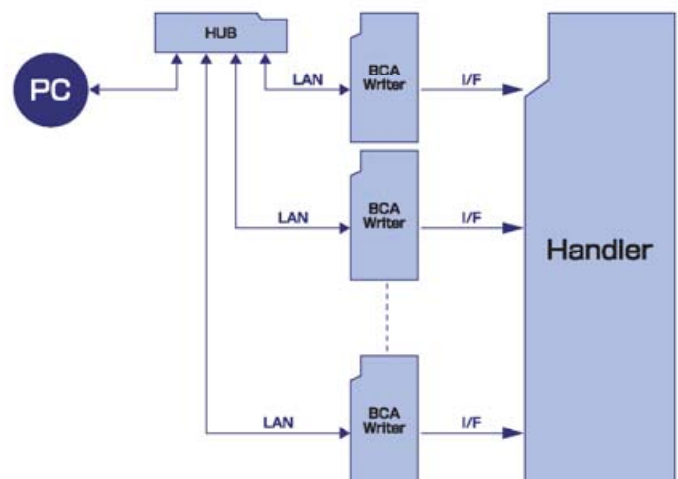
SYSTEM OUTLINE

This is a system to write BCA onto ROM and R discs.
Possible to write BCA conforming to both formats(HD DVD&BD).

FEATURES

- Apply the semiconductor laser which is well known for its long lifetime and compact size comparing to current YAG laser.
- Developed new optics which is capable of outputting 5W or more on disc surface. The new laser head enables BCA writing onto any types of reflective layers(including Aluminum and Silver Alloy!!)
- Compact size is achieved for the line usage.
- Developed new mechanical interface leading to faster cycle time with the comparison to the conventional equipment. Less dependent on the handling time of robot.
- Offline usage is also suitable with user-friendly GUI.

BLOCK DIAGRAM



Advantage of Rotating Tray Type

Rotating Type (New Model)		Non-Rotating Type (Conventional Model)	
		Disc exchange *1	2.0
Tray rotation, Disc clamp	0.7	Tray rotation, Disc clamp	1.0
Spindle rotation, servo ON	0.5	Spindle rotation, servo ON	0.5
BCA cut *2	3.0	BCA cut *2	3.0
Spindle stop	0.5	Spindle stop	0.0
Disc clamp release	0.3	Disc clamp release	1.0
Cycle time	5.0	Cycle time	7.5
Next disc is already placed on the tray.		The suction pad needs to wait until the disc is placed.	
No waiting time if the disc is exchanged within 4sec.		More waiting time occur when using multi-BCA units.	

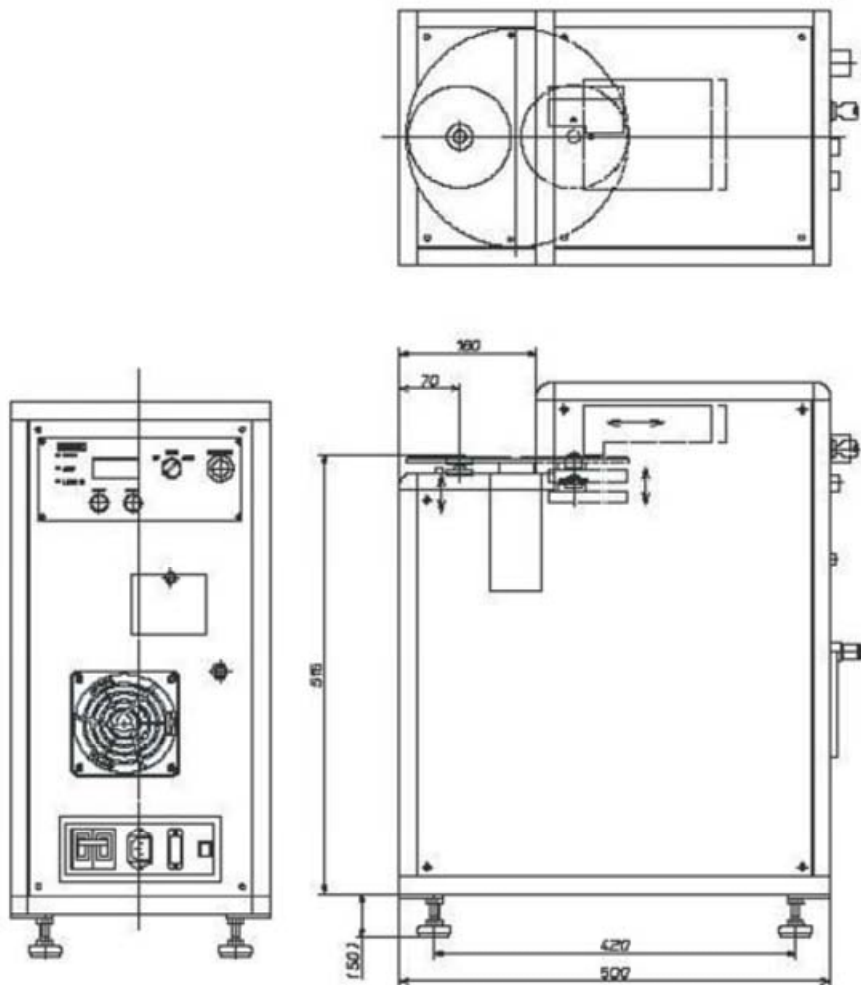
- *1) Disc exchange time varies depending on the handling robot.
- *2) Cutting time varies depending on the type of reflective layer.

Specifications

Spindle Motor	
Max. rotation speed	< 3000r/min
Set-up Resolution	1r/min

Feed stage	
Min. feed step	1um/rev.
Access Range	r=21mm~24mm

PUH spec	
Max. source power	< 5w
Beam shape	1.1umx40um
Actuator	1 axis
Servo method	kuife-edge
Laser class	4



※Please be noted that this specs may change without prior notice.



■ Head Office
 7000-35, Nakagawa, Hosoe-cho, Kita-ku,
 Hamamatsu, Shizuoka Pref.,
 431-1304 Japan
 TEL +81-53-522-3611
 FAX +81-53-522-3666

■ Europe Office
 Office 18, 12 Devon Place, Newport,
 South Wales, NP120 4NN, UK
 TEL +44-7867-972860

MEMO