

# NEJE A40640

**A40640** (The most widely used module) is a classic creative master dual beam zoom laser module, it is the world's first 2 beam laser diode engraving and cutting module with zoom design, with the best metal engraving ability, fast groove engraving ability, thick material cutting compatibility, Make it the most widely used module. Due to the built-in NEJE unique fiber compression technology, It has a very strong energy density (0.04x0.06mm with 12W+ pulse and 11W continuous optical power), There are very special and top artistic expressions on the carvings of stainless steel grayscale carvings, stone carvings, Glass Carving, hardwood reliefs, canvas art, and other materials. The A40640 is the only high-power module with variable focus section, The optimized A40640 II has higher cutting reliability, The short focus is suitable for carving hard materials such as metal stone and cutting materials with high density such as mdf, The long focus has better depth of field and smaller included angle for cutting thick wood and other materials. The excellent design makes the A40640 have a very strong vitality from the first creator of high-power diode laser to today, Due to the high power density, it has an equivalent application higher than 20W (optical power) laser in large area image engraving, If you only consider 1 module to help you solve all the needs, it is the best choice.

### NEJE A40640 12W ZOOM DIODE LASER

The most widely used multifunctional engraving and cutting module



Fiber Zoom Tech



Max 30mm Cutting thickness



Clear Stainless Steel Carving



High Pressure Assit



Safety Protect



Super Long Life





A40640



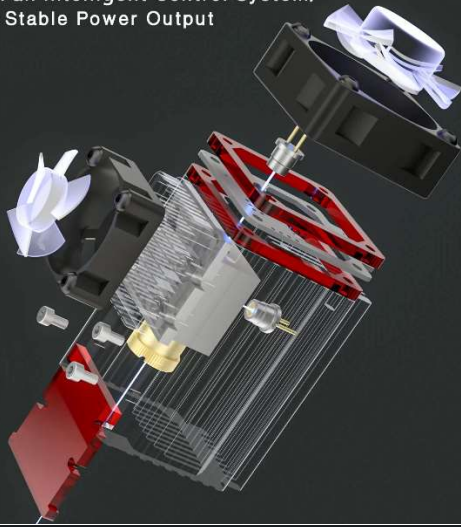
0.04x0.06mm ultra-fine compressed light spot, has the best metal engraving ability, can clearly engrave grayscale images on stainless steel surfaces



A40640	Others
	
Clean-Cut Edges	Scorched Edges

Dual Fan Cooling: A40640 laser module optimized cooling system(Dual Fan Cooling), effective temperature control, which ensures the stability of the laser module for long-term operation, extended module life

Dual Fan Intelligent Control System,  
More Stable Power Output



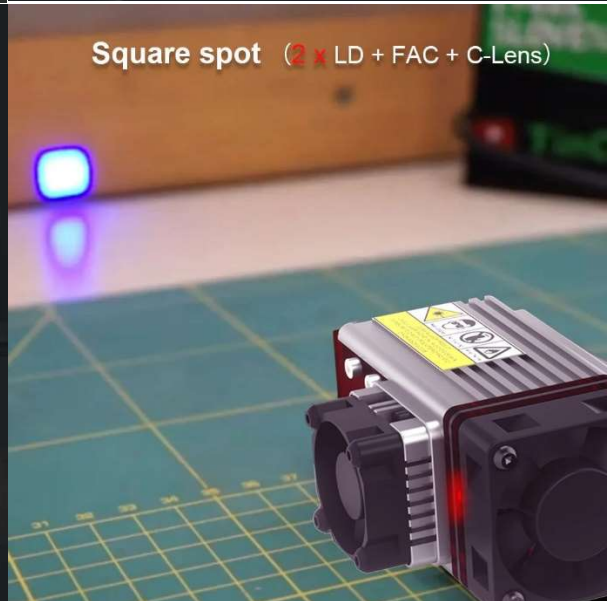
Focus Smaller, Engraving Clearly



Longer Depth of Field and Thicker Cut



Square spot (2 x LD + FAC + C-Lens)



## Cutting Speed



Laser module :	NEJE A40640
plywood 2mm cut :	480mm/min,S1000, 1 pass
plywood 3mm cut :	420mm/min,S1000, 1 pass
plywood 4mm cut :	360mm/min,S1000, 1 pass
plywood 5mm cut :	240mm/min,S1000, 1 pass
plywood 8mm cut :	120mm/min,S1000, 1 pass
plywood 18mm cut :	120mm/min,S1000, 3 pass
birch ply 3mm :	480mm/min,S1000, 1 pass
MDF board 3mm cut :	120mm/min,S1000, 1 pass
MDF board 5mm cut :	120mm/min,S1000, 2 pass
MDF board 8mm cut :	120mm/min,S1000, 3 pass
balck acrylic plate 3mm cut :	120mm/min,S1000, 1 pass
balck acrylic plate 5mm cut :	120mm/min,S1000, 2 pass

NOTE : The above data needs to add air assist correctly(0.6-1.5mPA)with laserGRBL or lightburn;  
lightburn: 60mm/min= 1mm/sec,S1000= 100% Power

## NEJE A40640 Laser module



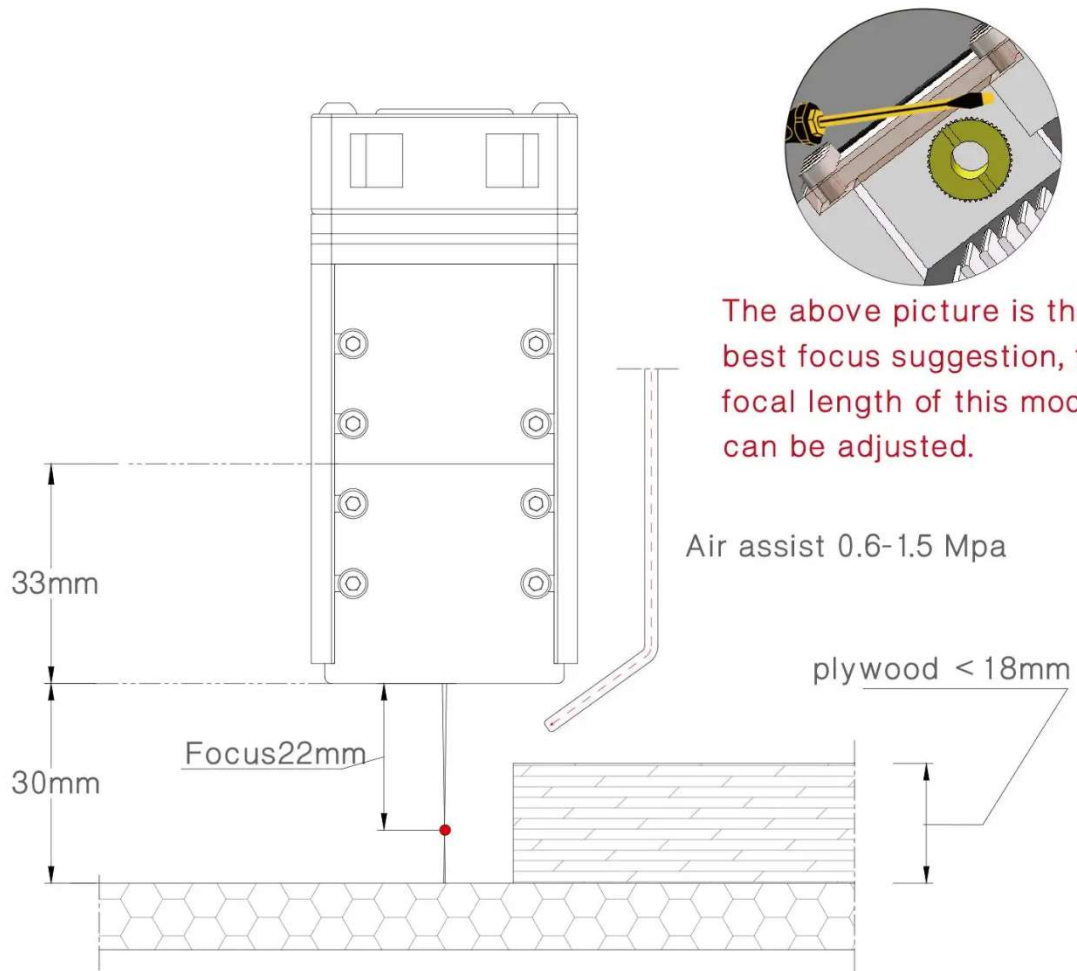
Radiator size	40x50x60mm
Weight	204g
Focus method	Zoom focus (The close focus is smaller, suitable for metal engraving and thin material cutting, and the far focus is suitable for cutting thick materials)
Application	Metal engraving, thin metal cutting, stone engraving, glass engraving, seal engraving, cardboard cutting, wood etching, canvas engraving, fabric engraving and cutting, leather engraving and cutting, MDF board cutting, plywood cutting, acrylic cutting, etc; variable focus design, long focal length combined with high pressure air Auxiliary is suitable for cutting thick wood and other materials for making furniture such as lamps, chairs, tables, etc.
Max air pressure	1.5mPa
Speed of the Fan	10600RPM(Double ball bearing)
Interface	PH2.0 4Pin + ( 2Pin 12v extra power - can be free)
Drive design	Built-in
Input	12V 4A
Optical power	Pulse 12 W+, CW 11W+
Wavelength	450nm
Number of diodes	2
Light source	2 x LD +FAC tech
Min focus spot size	0.04 x 0.06mm
Temperature feedback	YES
Power adjustment method	PWM duty cycle (3.3V - 24V, 0-20KHz)
Continuously working(cw)	Unlimited
Fan speed control	YES
Light feedback	YES
Warranty	2 years (20000h)
Max cutting & carving depth	20mm
Cutting speed (plywood 3mm, with air assist, clear edge)	420m/ min 100%power from 1 pass
Stainless steel direct engraving	YES
Support stainless steel grayscale	YES

## NEJE A40640



Material Description	Marking	Craving	Cutting
plywood 5mm	✓	✓	✓
plywood 8mm	✓	✓	✓
plywood 18mm	✓	✓	✓
MDF board 5mm	✓	✓	✓
MDF board 8mm	✓	✓	✓
MDF board 18mm	✓	✓	✓
Balsa 8mm	✓	✓	✓
hard wood 18mm	✓	✓	✓
Acrylic 8mm(Dark Color)	✓	✓	✓
Brushed Acrylic(transparent)	✓	X	X
Corrugated cardboard < 8mm	✓	✓	✓
Kraft Paper 0.5mm	✓	✓	✓
Paperboard 2mm	✓	✓	✓
weeding invitation paper 0.5mm	✓	✓	✓
Colored A4 Paper(Not White)	✓	✓	✓
A4 Paper(White)	X	X	✓
Spray art stencils from mylar sheets(less than 1mm thick)	X	X	✓
Heat transfer vinyl	X	X	✓
bamboo	✓	✓	✓
stamp rubber	✓	✓	✓
Non-woven	✓	X	✓
Cotton	✓	X	✓
Linen	✓	X	✓
Velvet	✓	X	✓
Canvas	✓	X	✓
fabric polyester	✓	X	✓
fabric synthetics	✓	X	✓
Leather < 2mm	✓	✓	✓
Leather < 4mm	✓	✓	✓
Plastic	✓	✓	✓
PPR	✓	✓	X
ABS Sheet<2mm (Dark Color)	✓	✓	✓
PVC Sheet 2mm (Dark Color)	✓	✓	✓
Brushed PVC transparent board	✓	X	X
Black foamex(EPE)	✓	✓	✓
KT Board	X	X	✓
EVA foam	✓	✓	✓
Bakelite	✓	✓	X
Brushed Glass	✓	X	X
Cobblestone	✓	X	X
Brushed Ceramic	✓	X	X
Printed Metal	✓	X	X
PCB board	✓	X	X
Anodised Aluminium	✓	X	X
Brushed Stainless steel	✓	X	X
mirror Stainless steel	✓	X	X
Gold	X	X	X

## NEJE A40640 FOCUS WITH AIR ASSIST

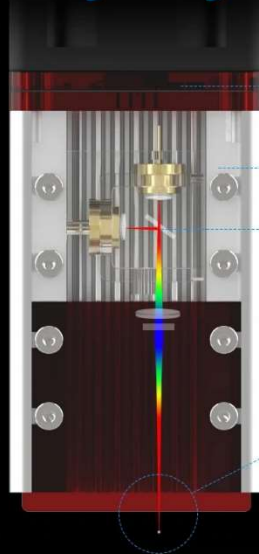




# One Module Solve All Puzzles

NEJE A40640 Dual Beam 12W+ Optical Power Module with 2 Years Warranty

## Engraving



Fan speed  
TTL



Temperature

NEJE Microlens  
Compression Technology

Focus  
0.04x0.06mm

## Cutting



Max Cutting  
20mm

High Verticality  
Clean Edge

Excellent engraving performance



8mm thickness basswood (One-pass)

