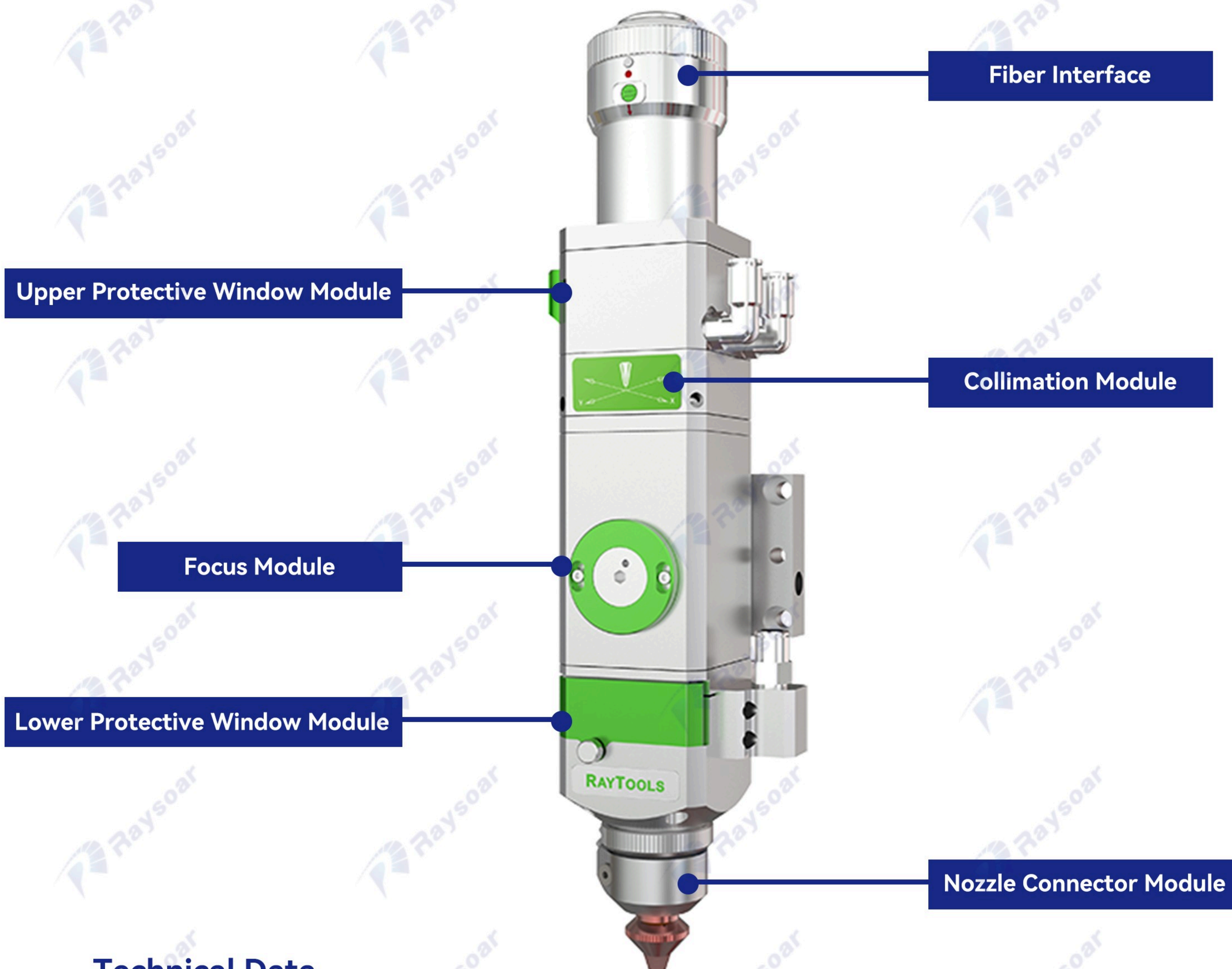


BT210/BT210S

Manual Focus Laser Cutting Head



Technical Data

Model	BT210S
Power Rating	≤1.5kW
Fiber Interface	QBH / QCS
Fiber Wavelength	1064nm
NA	0.13
Collimation Length	F75 / F100
Focusing Length	F100 / F125
Manual Focus Range	-5.5...+5.5mm
Cutting Gas	Φ8, max. 25bar
Water Cooling	Φ6, max. 5bar
Weight	~3.5kg



Nozzle Connector Module

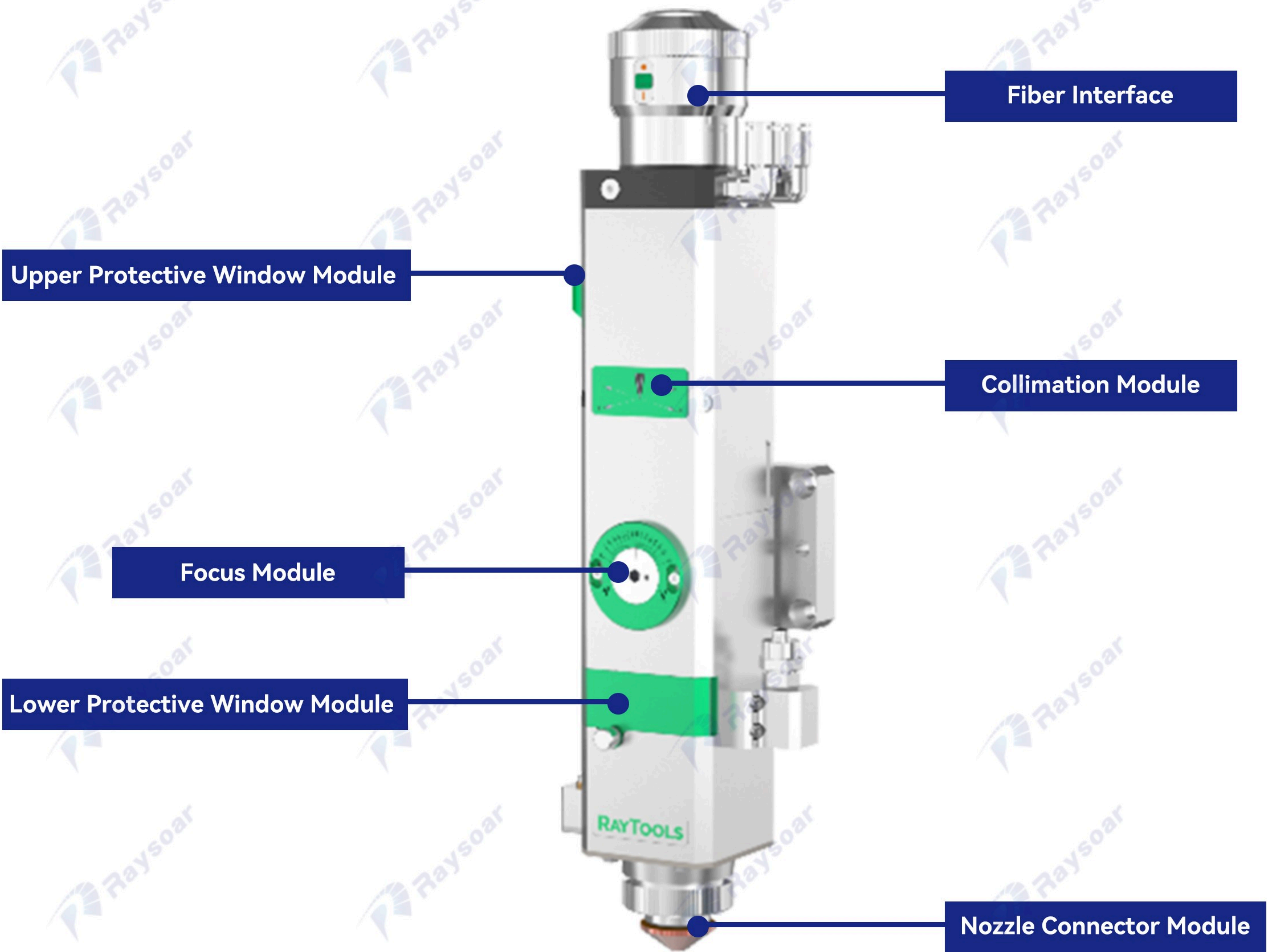
Nozzle Connector	LLME14-BT210S*	211TRA0424	2D
	LRTE14-BM112T*	120576000B	3D
	LLME14-BT210A		2D Aluminium Part
	LLME14-BT210SA	211TRA0424	2D Stainless Steel Part
	LRTE14-BM112TA	120576000B	3D
Tip retainer nut	LLMC09-8008B-O*	2110328008B	
	LLMC09-3021	2110328008B	
Nozzle	LLMN01-22XX		2D H22 Single
	LLMN02-22XX		2D H22 Double CP
	LRTN35-19XX-O/O2*		3D D15H19M8 Single
	LRTN36-19XXCP-O/O2*		3D D15H19M8 Double CP
	LCKN01-19XX		3D D15H19M8 Single
	LCKN02-19XXCP		3D D15H19M8 Double CP



	Part Number	Reference Number	Description
Optical Fiber Connector Module			
Fiber Socket	LRTO26-Q1001*	211FIA1001	QBH without Water Cooling
Upper Protective Window Module			
Protective Window	LRTO11-2515S-O*	211LCG0020E	D24.9*1.5 3KW
	LRTO11-2515S-O2*	211LCG0020	D24.9*1.5 3KW
	LRTO11-2515W	211LCG0020	D24.9*1.5
Axial Gasket	LRTC08-0051*	11021M120051	29.2*21*3.55
	LRTC08-2920	11021M120051	29.2*21*3.55
Collimation Module			
Collimation Lens Assy	LRTO17-C100B1S-O*	120AH0600A	D28-C100
	LRTO17-C100M9D	120AH0600A	D28-C100
Lower Protective Window Module			
Protective Window	LLMO11-2840S-O*	211LCG0037E	D27.9*4.1 3KW
	LLMO11-2840S-O2*	211LCG0037	D27.9*4.1 3KW
	LLMO11-2840S	211LCG0037	D27.9*4.1
Axial Gasket	LRTC08-0007-O*	11021M2110007	32.2*24*3.55
	LRTC08-3224	11021M2110007	32.2*24*3.55
Focusing Module			
Focusing Lens Assy	LRTO01-F125B1S-O*	120AH0700A	D28-F125
	LRTO01-F125M9D	120AH0700A	D28-F125

BT220

Manual Focus Laser Cutting Head



Technical Data

Model	BT220
Power Rating	≤2kW
Fiber Interface	QBH
Fiber Wavelength	1064nm
NA	0.13
Collimation Length	F75 / F100
Focusing Length	F100 / F125
Manual Focus Range	-8...+7mm
Cutting Gas	Φ8, max. 25bar
Water Cooling	Φ6, max. 5bar
Weight	~2.3kg



Nozzle Connector Module			
Nozzle Connector	LRTE14-BT220*	120576500A	2D
	LRTE14-BT220T*	120570900C	3D With Nozzle Holder
	LRTE14-BM112T*	120576000B	3D Without Nozzle Holder
	LRTE14-BT220A	120576500A	2D
	LRTE14-BM112TA	120576000B	3D Without Nozzle Holder
Nozzle Holder	LRTC09-5099A-O*	120515099A	2D D28H12M11
	LRTC09-5092B-O*	120515092B	3D D21.4H16.9M11
	LRTC09-5093A-O*	120515093A	3D D21.4H12.9M8
	LPTC09-0003	P0571-1051-00001	2D D28H12M11
	LRTC09-5092	120515092B	3D D21.4H16.9M11
	LRTC09-5093	120515093A	3D D21.4H12.9M8
Nozzle	LRTN19-59XX-O2*		2D D28H15M11 Single
	LRTN20-15XXCP-O2*		2D D28H15M11 Double CP
	LRTN33-18XX		3D D15H18M11 Single
	LRTN34-18XX		3D G15H18M11 Double
	LRTN35-19XX-O/O2*		3D D15H19M8 Single
	LRTN36-19XXCP-O/O2*		3D D15H19M8 Double CP
	LPTN01-59XX		2D D28H15M11 Single
	LHAN02-59XXE		2D D28H15M11 Double CP
	LCKN01-19XX		3D D15H19M8 Single
	LCKN02-19XXCP		3D D15H19M8 Double CP



	Part Number	Reference Number	Description
Optical Fiber Connector Module			
Fiber Socket	LRT026-Q1001*	211FIA1001	QBH without Water Cooling
	LRT026-Q3003*	211FIA3003	QBH with Water Cooling
Upper Protective Window Module			
Protective Window	LRT011-2515S-O*	211LCG0020E	D24.9*1.5 3KW
	LRT011-2515S-O2*	211LCG0020	D24.9*1.5 3KW
	LRT011-2515W	211LCG0020	D24.9*1.5
Axial Gasket	LRTC08-0051*	11021M120051	29.2*21*3.55
	LRTC08-2920	11021M120051	29.2*21*3.55
Collimation Module			
Collimation Lens Assy	LRT017-C75B2-O*	120570400A	D30-C75
	LRT017-C100B2-O*	120570500A	D28-C100
Lower Protective Window Module			
Protective Window	LLMO11-2840S-O*	211LCG0037E	D27.9*4.1 3KW
	LLMO11-2840S-O2*	211LCG0037	D27.9*4.1 3KW
	LLMO11-2840S	211LCG0037	D27.9*4.1
Axial Gasket	LRTC08-0007-O*	11021M2110007	32.2*24*3.55
	LRTC08-3224	11021M2110007	32.2*24*3.55
Focusing Module			
Focusing Lens Assy	LRT001-F100B2-O*	120570100A	D28-F100
	LRT001-F125B2-O*	120570200A	D28-F125
	LRT001-F150B2-O*	120570300A	D28-F150

BT240/BT240S

Manual Focus Laser Cutting Head



Technical Data

Model	BT240S
Power Rating	≤3.3kW
Fiber Interface	QBH
Fiber Wavelength	1064nm
NA	0.13
Collimation Length	F100
Focusing Length	F125 / F150
Calibration	Auto Calibrating / Manual Calibrating
Assist Gas Pressure	≤25bar
Distance Range	0.3-10mm (1mm Recommended)
Weight	~3.5kg



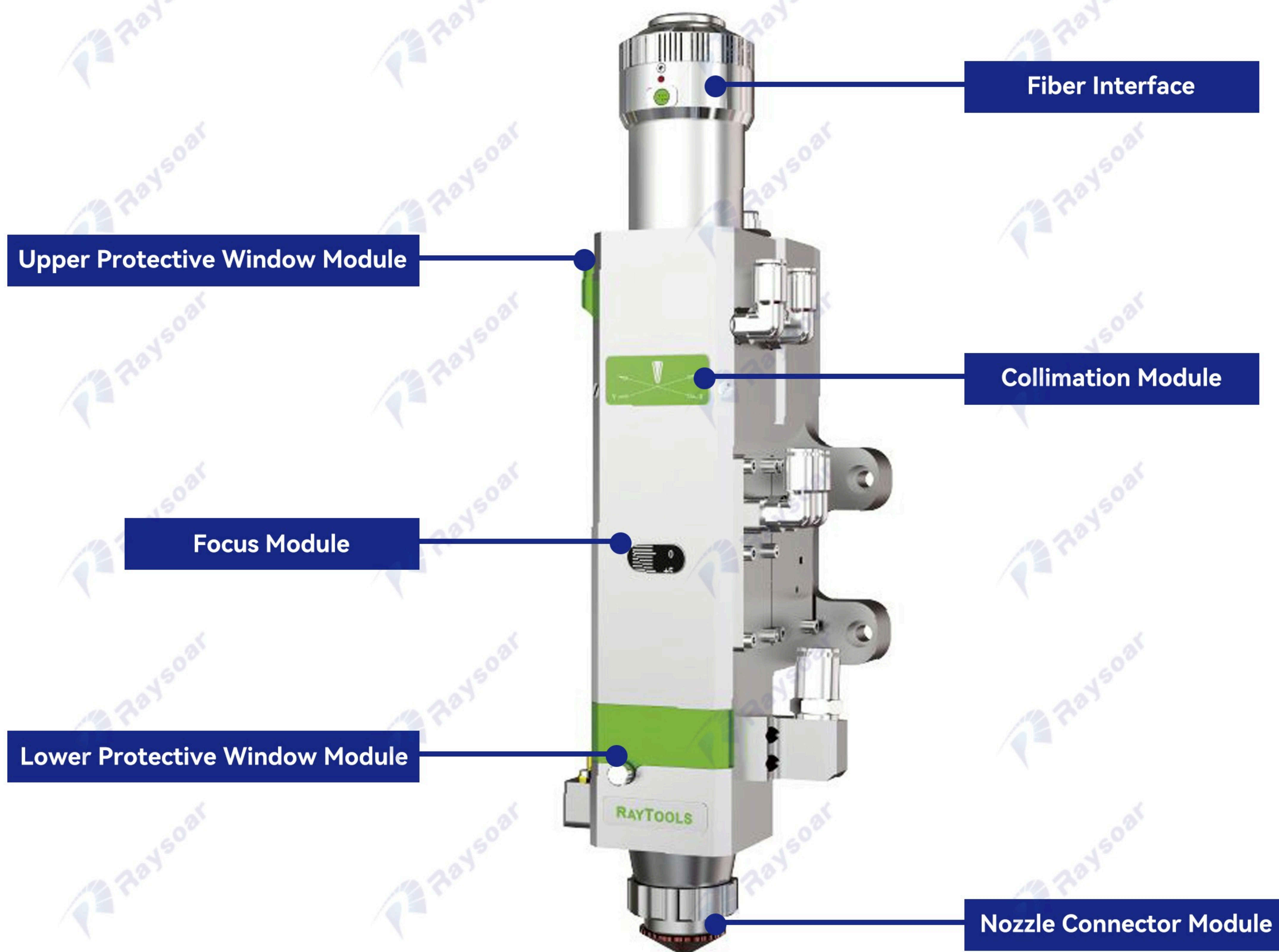
Nozzle Connector Module			
Nozzle Connector	LRTE14-BT240S*	120A61000A	BT240S 2D Black
	LRTE14-BT240S2*	120A66000A	BT240S 2D Silver
	LRTE14-BM109T*	120800100B	3D Silver
	LRTE14-BT240A	120401000D	BT240 2D Black
	LRTE14-BT240SA	120A61000A	BT240S 2D Black
	LRTE14-BM109TA	120800100B	3D Silver
Nozzle Holder	LRTC09-0240-O*	120274100B	2D D32H12M14
	LRTC09-0141-O*	120572008B	3D D19.5H12.4M8
	LRTC09-0240	120274100B	2D D32H12M14
	LRTC09-0141	120572008B	3D D19.5H12.4M8
Nozzle	LRTN01-15XX		2D D32H15M14 Single
	LRTN02-15XXCP		2D D32H15M14 Double CP
	LRTN35-19XX-O/O2*		3D D15H19M8 Single
	LRTN36-19XXCP-O/O2*		3D D15H19M8 Double CP
	LCKN01-19XX		3D D15H19M8 Single
	LCKN02-19XXCP		3D D15H19M8 Double CP



	Part Number	Reference Number	Description
Optical Fiber Connector Module			
Fiber Socket	LRTO26-Q1001*	211FIA1001	QBH without Water Cooling
	LRTO26-Q3003*	211FIA3003	QBH with Water Cooling
Upper Protective Window Module			
Protective Window	LRTO11-2515S-O*	211LCG0020E	D24.9*1.5 3KW
	LRTO11-2515S-O2*	211LCG0020	D24.9*1.5 3KW
	LRTO11-2515W	211LCG0020	D24.9*1.5
Axial Gasket	LRTC08-0051*	11021M120051	29.2*21*3.55
	LRTC08-2920	11021M120051	29.2*21*3.55
Axial Gasket	LRTC08-0308*	120AG0308A	φ28.6*φ25.0*1.8
	LRTC08-2925	120AG0308A	φ28.6*φ25.0*1.8
Upper Protective holder	LRTO26-4023B-O*	120A64023B	
Collimation Module			
Collimation Lens Assy	LRTO17-C100B4L-O*	120A60021A	D30-C100 2KW
	LRTO17-C100B4P-O*	120A60022A	D30-C100 3KW
	LRTO17-C100B4L	120A60021A	D30-C100 2KW
	LRTO17-C100B4P	120A60022A	D30-C100 3KW
Lower Protective Window Module			
Clamping Ring	LRTC08-5015C-O*	120515015C	
	LRTC08-5015C	120515015C	
Protective Window	LLMO11-2840S-O*	211LCG0037E	D27.9*4.1 3KW
	LLMO11-2840S-O2*	211LCG0037	D27.9*4.1 3KW
	LLMO11-2840S	211LCG0037	D27.9*4.1
Axial Gasket	LRTC08-0007-O*	11021M2110007	32.2*24*3.55
	LRTC08-3224	11021M2110007	32.2*24*3.55
Lower Protective holder	LRTO26-5014B-O*	120515014B	
Focusing Module			
Focusing Lens Assy	LRTO01-F125B4L-O*	120A60023A	D30-F125 2KW
	LRTO01-F125B4P-O*	120A60024A	D30-F125 3KW
	LRTO01-F155B4L-O*	120A60025A	D30-F155 3KW
	LRTO01-F125B4L	120A60023A	D30-F125 2KW
	LRTO01-F125B4P	120A60024A	D30-F125 3KW
	LRTO01-F155B4L	120A60025A	D30-F155 3KW

BM109

Auto Focus Laser Cutting Head



Technical Data

Fiber Interface	QBH, QD, G5
NA	0.13
Auto Focus	
- Range	-35 ~ +25 mm
- Acceleration	$\leq 10 \text{ m/s}^2$
- Velocity	$\leq 200 \text{ m/min}$
- Accuracy	$\leq 10 \text{ }\mu\text{m}$
Cover Glasses	
- Collimation Side (Top)	$\Phi 24.9 \times 1.5 \text{ mm}$
- Focusing Side (Bottom/Middle)	$\Phi 37 \times 7 \text{ mm}$

Collimation Length	100mm
Focus Length	150mm, 200mm
Nozzle Styles	Single, Double, Boost
Diameter of Nozzle Tip	
- Single	1.2-5.0mm
- Double	1.0-1.8mm
- Boost	1.6-7.0mm
Assist Gas Pressure	$\leq 30 \text{ bar}$
Weight	$\sim 7.5 \text{ kg}$

Specifications subject to change without notice.



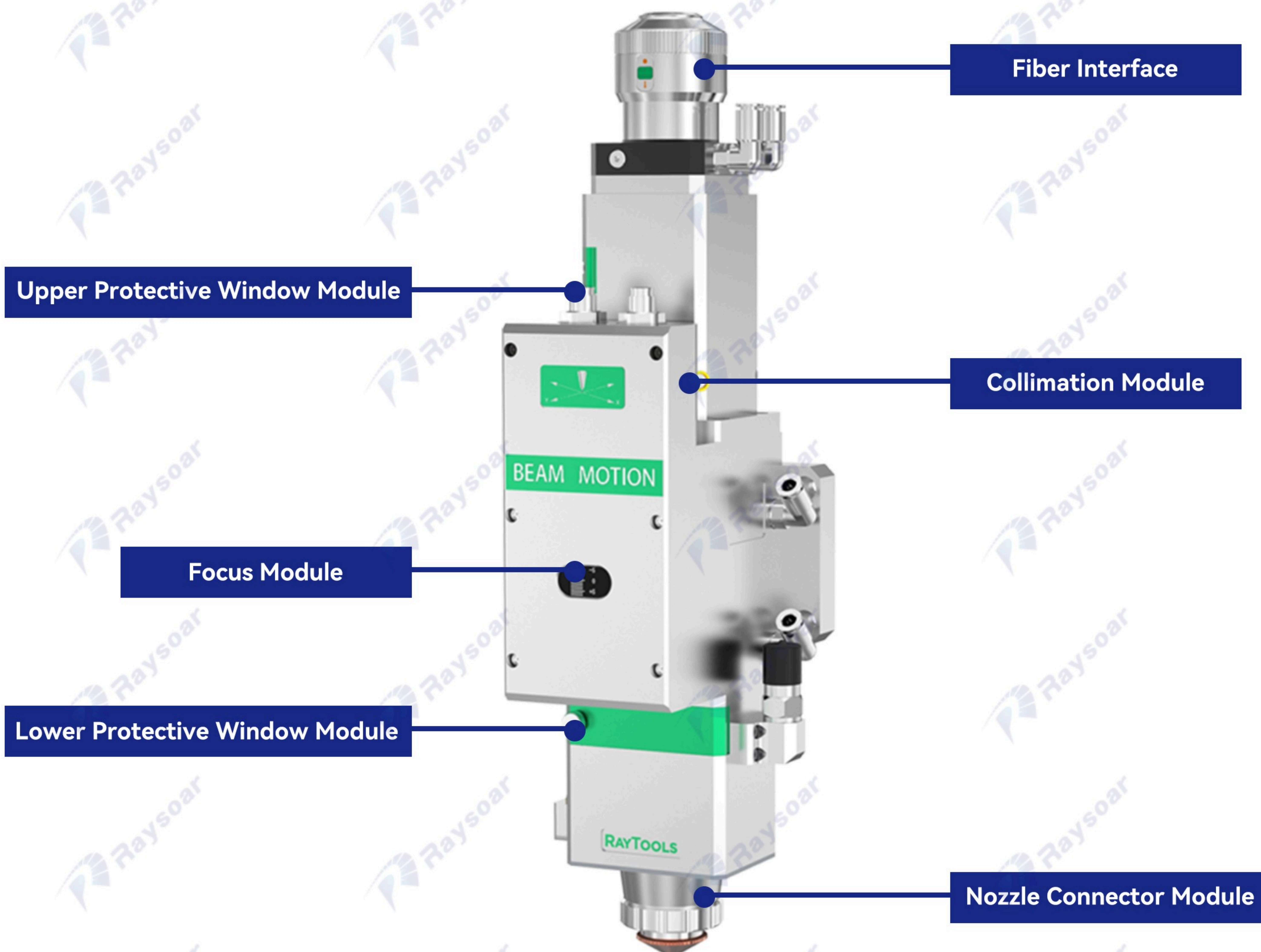
Nozzle Connector Module			
Nozzle Connector	LRTE14-BT240S*	120A61000A	BT240S 2D Black
	LRTE14-BT240S2*	120A66000A	BT240S 2D Silver
	LRTE14-BM109T*	120800100B	3D Silver
	LRTE14-BT240A	120401000D	BT240 2D Black
	LRTE14-BT240SA	120A61000A	BT240S 2D Black
	LRTE14-BM109TA	120800100B	3D Silver
Nozzle Holder	LRTC09-0240-O*	120274100B	2D D32H12M14
	LRTC09-0141-O*	120572008B	3D D19.5H12.4M8
	LRTC09-0240	120274100B	2D D32H12M14
	LRTC09-0141	120572008B	3D D19.5H12.4M8
Nozzle	LRTN01-15XX		2D D32H15M14 Single
	LRTN02-15XXCP		2D D32H15M14 Double CP
	LRTN35-19XX-O/O2*		3D D15H19M8 Single
	LRTN36-19XXCP-O/O2*		3D D15H19M8 Double CP
	LCKN01-19XX		3D D15H19M8 Single
	LCKN02-19XXCP		3D D15H19M8 Double CP



	Part Number	Reference Number	Description
Optical Fiber Connector Module			
Fiber Socket	LRTO26-Q1001*	211FIA1001	QBH without Water Cooling
	LRTO26-Q3003*	211FIA3003	QBH with Water Cooling
Upper Protective Window Module			
Protective Window	LRTO11-2515S-O*	211LCG0020E	D24.9*1.5 3KW
	LRTO11-2515S-O2*	211LCG0020	D24.9*1.5 3KW
	LRTO11-2515W	211LCG0020	D24.9*1.5
Axial Gasket	LRTC08-0051*	11021M120051	29.2*21*3.55
	LRTC08-2920	11021M120051	29.2*21*3.55
	LRTC08-0308*	120AG0308A	φ28.6*φ25.0*1.8
	LRTC08-2925	120AG0308A	φ28.6*φ25.0*1.8
Upper Protective	LRTO26-4023B-O*	120A64023B	
Collimation Module			
Collimation Lens Assy	LRTO17-C100B4L-O*	120A60021A	D30-C100 2KW
	LRTO17-C100B4P-O*	120A60022A	D30-C100 3KW
	LRTO17-C100B4L	120A60021A	D30-C100 2KW
	LRTO17-C100B4P	120A60022A	D30-C100 3KW
Lower Protective Window Module			
Clamping Ring	LRTC08-5015C-O*	120515015C	
	LRTC08-5015C	120515015C	
Protective Window	LLMO11-2840S-O*	211LCG0037E	D27.9*4.1 3KW
	LLMO11-2840S-O2*	211LCG0037	D27.9*4.1 3KW
	LLMO11-2840S	211LCG0037	D27.9*4.1
Axial Gasket	LRTC08-0007-O*	11021M2110007	32.2*24*3.55
	LRTC08-3224	11021M2110007	32.2*24*3.55
Lower Protective	LRTO26-5014B-O*	120515014B	
Focusing Module			
Focusing Lens Assy	LRTO01-F125B4L-O*	120A60023A	D30-F125 2KW
	LRTO01-F125B4P-O*	120A60024A	D30-F125 3KW
	LRTO01-F155B4L-O*	120A60025A	D30-F155 3KW
	LRTO01-F125B4L	120A60023A	D30-F125 2KW
	LRTO01-F125B4P	120A60024A	D30-F125 3KW
	LRTO01-F155B4L	120A60025A	D30-F155 3KW

BM110

Auto Focus Laser Cutting Head



Technical Data

Model	BM110
Power Rating	≤3.3kW
Fiber Interface	QBH
Cutting Gas Pressure	25Bar
Clear Aperture	28mm
Collimation Length	F75 / F100
Focusing Length	F125 / F150 / F200
Auto Focus Range	-12mm~+10mm
Protective Windows	D24.9*1.5 (Upper); D27.9*4.1 (Lower)
Nozzle Styles	Single Layer, Double Layer
Weight	~5.0kg



Nozzle Connector Module			
Nozzle Connector	LRTE14-BM111*	120AG1700A(B)	A-2D D32 SMB,B-2D D32 SMA/A for 2D D32 SMB Connector,B for 2D D32 SMA Connector
	LRTE14-BM110-3*	120C24000A	2D D28
	LRTE14-BM109T*	120800100B	3D With Nozzle Holder
	LRTE14-BM112T*	120576000A	3D Without Nozzle Holder
	LRTE14-BM111A	120AG1700A(B)	A-2D D32 SMB,B-2D D32 SMA/A for 2D D32 SMB Connector,B for 2D D32 SMA Connector
	LRTE14-BM109TA	120800100B	3D With Nozzle Holder
	LRTE14-BM112TA	120576000A	3D Without Nozzle Holder
Nozzle Holder	LRTC09-5099A-O*	120515099A	2D D28H12M11
	LRTC09-0240-O*	120274100B	2D D32H12M14
	LRTC09-0141-O*	120572008B	3D D19.5H12.4M8
	LPTC09-0003	P0571-1051-00001	2D D28H12M11
	LRTC09-0240	120274100B	2D D32H12M14
	LRTC09-0141	120572008B	3D D19.5H12.4M8
Nozzle	LRTN19-59XX-O2*		2D D28H15M11 Single
	LRTN20-15XXCP-O2*		2D D28H15M11 Double CP
	LRTN01-15XX		2D D32H15M14 Single
	LRTN02-15XXCP		2D D32H15M14 Double CP
	LRTN35-19XX-O/O2*		3D D15H19M8 Single
	LRTN36-19XXCP-O/O2*		3D D15H19M8 Double CP
	LPTN01-59XX		2D D28H15M11 Single
	LHAN02-59XXE		2D D28H15M11 Double CP
	LCKN01-19XX		3D D15H19M8 Single
	LCKN02-19XXCP		3D D15H19M8 Double CP



	Part Number	Reference Number	Description
Optical Fiber Connector Module			
Fiber Socket	LRTO26-Q3003*	211FIA3003	QBH with Water Cooling
Upper Protective Window Module			
Protective Window	LRTO11-2515S-O*	211LCG0020E	D24.9*1.5 3KW
	LRTO11-2515S-O2*	211LCG0020	D24.9*1.5 3KW
	LRTO11-2515W	211LCG0020	D24.9*1.5
Axial Gasket	LRTC08-0051*	11021M120051	29.2*21*3.55
	LRTC08-2920	11021M120051	29.2*21*3.55
Axial Gasket	LRTC08-0308*	120AG0308A	φ28.6*φ25.0*1.8
	LRTC08-2925	120AG0308A	φ28.6*φ25.0*1.8
Upper Protective Holder Assy	LRTO26-2800A-O*	120AG2800A	C75 wiouout Protective Window
	LRTO26-2700A-O*	120AG2700A	C100 wiouout Protective Window
Collimation Module			
Collimation Lens Assy	LRTO17-C100M1L-O*	120AG0600A	D30-C100
	LRTO17-C100M1L	120AG0600A	D30-C100
Lower Protective Window Module			
Axial Gasket	LRTC08-0308*	120AG0308A	φ28.6*φ25.0*1.8
	LRTC08-2925	120AG0308A	φ28.6*φ25.0*1.8
Protective Window	LLMO11-2840S-O*	211LCG0037E	D27.9*4.1 3KW
	LLMO11-2840S-O2*	211LCG0037	D27.9*4.1 3KW
	LLMO11-2840S	211LCG0037	D27.9*4.1
Axial Gasket	LRTC08-0007-O*	11021M2110007	32.2*24*3.55
	LRTC08-3224	11021M2110007	32.2*24*3.55
Lower Protective Assy	LRTO11-2000A-O*	120AG2000A	
Focusing Module			
Focusing Lens Assy	LRTO01-F125M1-O*	120AG0700A	D30-F125
	LRTO01-F155M1-O*	120AG0800A	D30-F155
	LRTO01-F200M1-O*	120AG1400A	D30-F200
	LRTO01-F125M1L	120AG0700A	D30-F125
	LRTO01-F155M1L	120AG0800A	D30-F155
	LRTO01-F200M1L	120AG1400A	D30-F200
Axial Gasket	LRTC08-0007-O*	11021M2110007	32.2*24*3.55
	LRTC08-3224	11021M2110007	32.2*24*3.55
Protective Window	LLMO11-2840S-O*	211LCG0037E	D27.9*4.1 3KW
	LLMO11-2840S-O2*	211LCG0037	D27.9*4.1 3KW
	LLMO11-2840S	211LCG0037	D27.9*4.1

BM111

Auto Focus Laser Cutting Head



Technical Data

Model	BM111
Power Rating	≤3.3kW
Fiber Interface	QBH
Cutting Gas Pressure	25Bar
Clear Aperture	28mm
Collimation Length	F75 / F100
Focusing Length	F125 / F155 / F200
Auto Focus Range	-12mm~+10mm
Protective Windows	D24.9*1.5 (Upper); D27.9*4.1 (Lower)
Nozzle Styles	Single Layer, Double Layer
Weight	~5.7kg



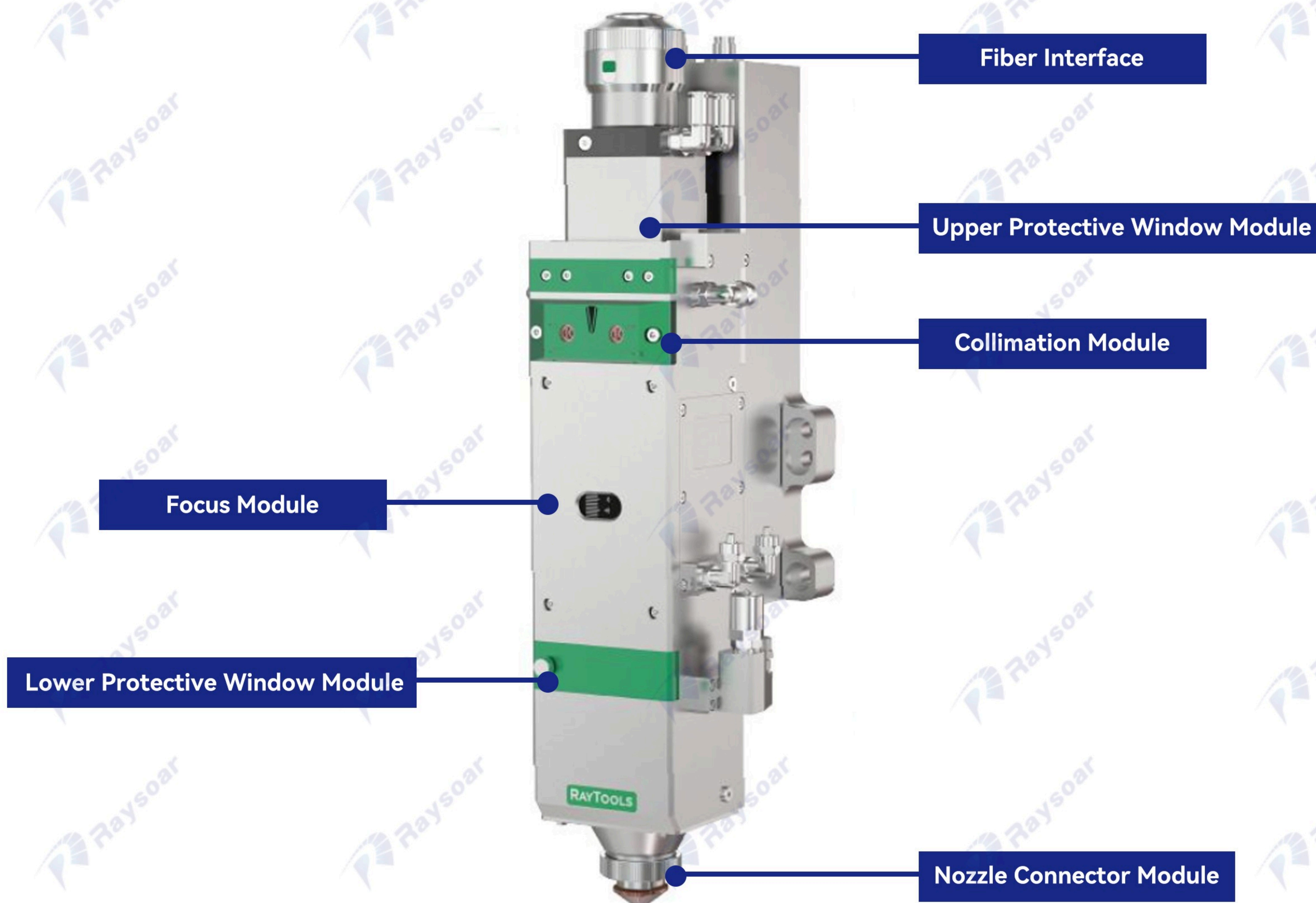
Nozzle Connector Module			
Nozzle Connector	LRTE14-BM111*	120AG1700A(B)	A-2D D32 SMB,B-2D D32 SMA/A for 2D D32 SMB Connector,B for 2D D32 SMA Connector
	LRTE14-BM110-3*	120C24000A	2D D28
	LRTE14-BM109T*	120800100B	3D With Nozzle Holder
	LRTE14-BM112T*	120576000A	3D Without Nozzle Holder
	LRTE14-BM111A	120AG1700A(B)	A-2D D32 SMB,B-2D D32 SMA/A for 2D D32 SMB Connector,B for 2D D32 SMA Connector
	LRTE14-BM109TA	120800100B	3D With Nozzle Holder
	LRTE14-BM112TA	120576000A	3D Without Nozzle Holder
Nozzle Holder	LRTC09-5099A-O*	120515099A	2D D28H12M11
	LRTC09-0240-O*	120274100B	2D D32H12M14
	LRTC09-0141-O*	120572008B	3D D19.5H12.4M8
	LPTC09-0003	P0571-1051-00001	2D D28H12M11
	LRTC09-0240	120274100B	2D D32H12M14
	LRTC09-0141	120572008B	3D D19.5H12.4M8
Nozzle	LRTN19-59XX-O2*		2D D28H15M11 Single
	LRTN20-15XXCP-O2*		2D D28H15M11 Double CP
	LRTN01-15XX		2D D32H15M14 Single
	LRTN02-15XXCP		2D D32H15M14 Double CP
	LRTN35-19XX-O/O2*		3D D15H19M8 Single
	LRTN36-19XXCP-O/O2*		3D D15H19M8 Double CP
	LPTN01-59XX		2D D28H15M11 Single
	LHAN02-59XXE		2D D28H15M11 Double CP
	LCKN01-19XX		3D D15H19M8 Single
	LCKN02-19XXCP		3D D15H19M8 Double CP



	Part Number	Reference Number	Description
Optical Fiber Connector Module			
Fiber Socket	LRTO26-Q1001*	211FIA1001	QBH without Water Cooling
	LRTO26-Q3003*	211FIA3003	QBH with Water Cooling
Upper Protective Window Module			
Protective Window	LRTO11-2515S-O*	211LCG0020E	D24.9*1.5 3KW
	LRTO11-2515S-O2*	211LCG0020	D24.9*1.5 3KW
	LRTO11-2515W	211LCG0020	D24.9*1.5
Axial Gasket	LRTC08-0051*	11021M120051	29.2*21*3.55
	LRTC08-2920	11021M120051	29.2*21*3.55
Axial Gasket	LRTC08-0308*	120AG0308A	φ28.6*φ25.0*1.8
	LRTC08-2925	120AG0308A	φ28.6*φ25.0*1.8
Upper Protective Holder Assy	LRTO26-2800A-O*	120AG2800A	C75 wiouout Protective Window
	LRTO26-2700A-O*	120AG2700A	C100 wiouout Protective Window
Collimation Module			
Collimation Lens Assy	LRTO17-C100M1L-O*	120AG0600A	D30-C100
	LRTO17-C100M1L	120AG0600A	D30-C100
Lower Protective Window Module			
Axial Gasket	LRTC08-0308*	120AG0308A	φ28.6*φ25.0*1.8
	LRTC08-2925	120AG0308A	φ28.6*φ25.0*1.8
Protective Window	LLMO11-2840S-O*	211LCG0037E	D27.9*4.1 3KW
	LLMO11-2840S-O2*	211LCG0037	D27.9*4.1 3KW
	LLMO11-2840S	211LCG0037	D27.9*4.1
Axial Gasket	LRTC08-0007-O*	11021M2110007	32.2*24*3.55
	LRTC08-3224	11021M2110007	32.2*24*3.55
Lower Protective Assy	LRTO11-2000A-O*	120AG2000A	
Focusing Module			
Focusing Lens Assy	LRTO01-F125M1-O*	120AG0700A	D30-F125
	LRTO01-F155M1-O*	120AG0800A	D30-F155
	LRTO01-F200M1-O*	120AG1400A	D30-F200
	LRTO01-F125M1L	120AG0700A	D30-F125
	LRTO01-F155M1L	120AG0800A	D30-F155
	LRTO01-F200M1L	120AG1400A	D30-F200
Axial Gasket	LRTC08-0007-O*	11021M2110007	32.2*24*3.55
	LRTC08-3224	11021M2110007	32.2*24*3.55
Protective Window	LLMO11-2840S-O*	211LCG0037E	D27.9*4.1 3KW
	LLMO11-2840S-O2*	211LCG0037	D27.9*4.1 3KW
	LLMO11-2840S	211LCG0037	D27.9*4.1

BM114/BM114S

Auto Focus Laser Cutting Head



Technical Data

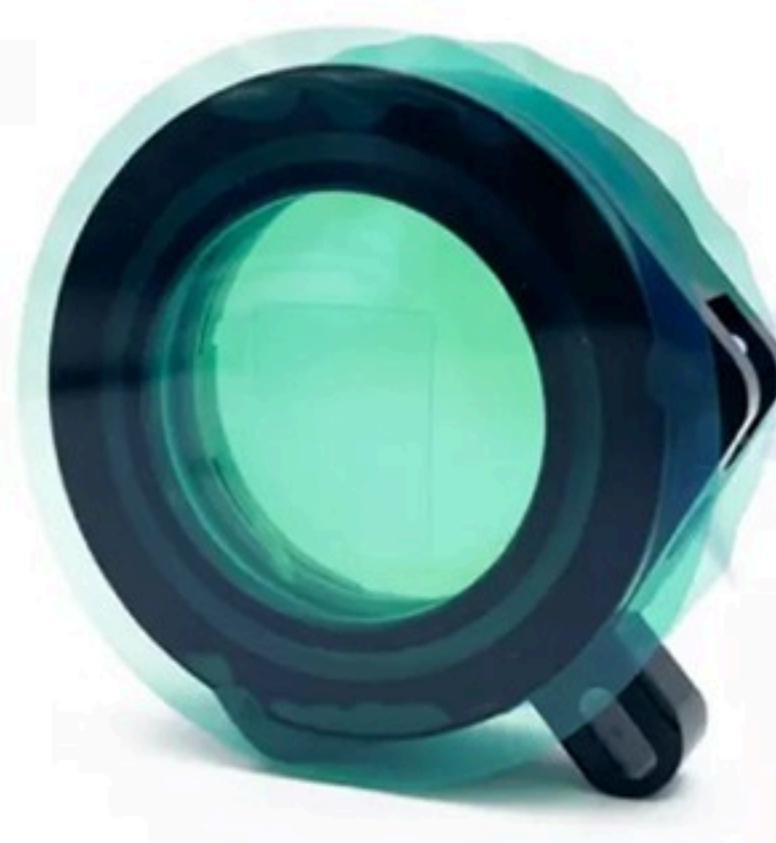
Fiber Interface	QBH, QD, G5
Clear Aperture	35 mm
Auto focus	
- Range	+15 ~ -20 mm
- Acceleration	$\leq 10 \text{ m/s}^2$
- Velocity	$\leq 10 \text{ m/min}$
- Accuracy	$\leq 50 \text{ }\mu\text{m}$
Cover Glasses	
- Collimation Side (Top/Middle)	$\Phi 37 * 1.6 \text{ mm}$
- Focusing Side (Bottom)	$\Phi 37 * 7 \text{ mm}$

Collimation Length	100mm
Focusing Length	150mm, 200mm
Nozzle Styles	Single, Double, Custom
Diameter of Nozzle tip	
- Single	1.2~5 mm
- Double	1.0~1.8 mm
- Boost	1.6~7.0 mm
Assist gas pressure	$\leq 30 \text{ bar}$
Weight	~ 5.6 kg

Specifications subject to change without notice.



Nozzle Connector Module			
Nozzle Connector	LRTE14-BM109T*	120800100B	3D
	LRTE14-BM114A	120BH0400C	2D BM114 D28
	LRTE14-BM114SA	120A32000A	2D BM114S D32 Without O-ring
	LRTE14-BM114SA2	120A30300D	2D BM114S D32 With O-ring
	LRTE14-BM109TA	120800100B	3D
Nozzle Holder	LRTC09-5099A-O*	120515099A	2D D28H12M11
	LRTC09-0240-O*	120274100B	2D D32H12M14
	LRTC09-0141-O*	120572008B	3D D19.5H12.4M8
	LPTC09-0003	P0571-1051-00001	2D D28H12M11
	LRTC09-0240	120274100B	2D D32H12M14
	LRTC09-0141	120572008B	3D D19.5H12.4M8
Nozzle	LRTN19-59XX-O2*		2D D28H15M11 Single
	LRTN20-15XXCP-O2*		2D D28H15M11 Double CP
	LRTN01-15XX		2D D32H15M14 Single
	LRTN02-15XXCP		2D D32H15M14 Double CP
	LRTN35-19XX-O/O2*		3D D15H19M8 Single
	LRTN36-19XXCP-O/O2*		3D D15H19M8 Double CP
	LPTN01-59XX		2D D28H15M11 Single
	LHAN02-59XXE		2D D28H15M11 Double CP
	LCKN01-19XX		3D D15H19M8 Single
	LCKN02-19XXCP		3D D15H19M8 Double CP



	Part Number	Reference Number	Description
Optical Fiber Connector Module			
Fiber Socket	LRTO26-1003-O*	211FIA1003	Old Version QBH with Watre Cooling
	LRTO26-Q3003*	211FIA3003	QBH with Water Cooling
Collimation Module			
Collimation Lens Assy	LRTO17-C100M4T-O*	120A30600A	D37-C100
	LRTO17-C100M4S-O*	120BH1001A	D37-C100
	LRTO17-C100M4S	120BH1001A	D37-C100
	LRTO17-C100M4P	120A32700A	D37-C100
Upper Protective Window Module			
Axial Gasket	LRTC08-0005*	11021M2110005	42.5*34.5*3.2
	LRTC08-4335	11021M2110005	42.5*34.5*3.2
Protective Window	LRTO11-3716P12-O*	211LCG0045	D37*1.6 12KW
	LRTO11-3816P12-O2*	211LCG0076	D38.1*1.6 12KW
	LRTO11-3716Z	211LCG0045	D37*1.6
	LRPO11-3816Z	211LCG0076	D38.1*1.6
Clamping ring	LRTC08-0308C*	120A30308C	
Axial Gasket	LRTC08-0317B	120A30317B	
Protective Window	LRTO11-3770P12-O*	211LCG0083	D37*7 12KW
	LRTO11-3770P12-O2*	211LCG0078E	D37*7 12KW
	LRTO11-3770P12-O3*	211LCG0078	D37*7 12KW
	LLMO11-3770S	211LCG0083	D37*7
Axial Gasket	LRTC08-0005*	11021M2110005	42.5*34.5*3.2
	LRTC08-4335	11021M2110005	42.5*34.5*3.2
Lower Protective Window Module			
Clamping ring	LRTC08-0308C*	120A30308C	
	LRTC08-0317B	120A30317B	
Protective Window	LRTO11-3770P12-O*	211LCG0083	D37*7 12KW
	LRTO11-3770P12-O2*	211LCG0078E	D37*7 12KW
	LRTO11-3770P12-O3*	211LCG0078	D37*7 12KW
	LLMO11-3770S	211LCG0083	D37*7
Axial Gasket	LRTC08-0005*	11021M2110005	42.5*34.5*3.2
	LRTC08-4335	11021M2110005	42.5*34.5*3.2
Focusing Module			
Focusing Lens Assy	LRTO01-F150M4T-O*	120BH1002A	D37-F150
	LRTO01-F190M4S-O*	120BH1008A	D37-F190.5
	LRTO01-F150M4P	120A30700A	D37-F150
	LRTO01-F150M4S	120BH1005A	D37-F150
	LRTO01-F190M4S	120BH1008A	D37-F190.5
	LRTO01-F200M4P	120A30800A	D38.1-F200
	LRTO01-F200M4T	120BH1006A	D37-F200
	LRTO01-F200M4S	120BH1008A	D37-F200
Protective Window	LRTO11-3716P12-O*	211LCG0045	D37*1.6 12KW
	LRTO11-3770P12-O*	211LCG0083	D37*7 12KW
	LRTO11-3770P12-O2*	211LCG0078E	D37*7 12KW
	LRTO11-3770P12-O3*	211LCG0078	D37*7 12KW
	LRTO11-3716Z	211LCG0045	D37*1.6
	LPTO11-3770E	211LCG0078	D37*7
Axial Gasket	LRTC08-0005*	11021M2110005	42.5*34.5*3.2
	LRTC08-4335	11021M2110005	42.5*34.5*3.2

BM115/BM115S

Auto Focus Laser Cutting Head



Technical Data

Fiber Interface	QBH , QD, Q+	Collimation Length	100mm
Clear Aperture	35mm (6kw/8kw); 36.1mm (12kw)	Focusing Length	150mm , 200mm
Auto Focus	+10~ -10mm (scale)	Nozzle Styles	Single , Double , Custom
- Range	+22.5 ~ -22.5mm (FL150)	Diameter of Nozzle Tip	
	+40 ~ -40mm (FL200)	Single	1.4mm, 1.5/2.0mm, 2.5/3.0mm, 3.5/4.0mm, 5.0/6.0mm, 10.0mm
- Acceleration	≤10m/s ²	Double	1.2/1.4mm, 1.5/1.6mm, 2.0/2.5mm, 3.0/3.5mm, 4.0mm
- Velocity	≤15m/min	Assist Gas Pressure	≤ 30 bar
- Accuracy	≤ 50μm	Weight	~ 7 kg
Cover Glasses			
- Collimation Side (Top)	Φ37*1.6mm		
- Focusing Side (Middle/Bottom)	Φ37*7mm		



Nozzle Connector Module

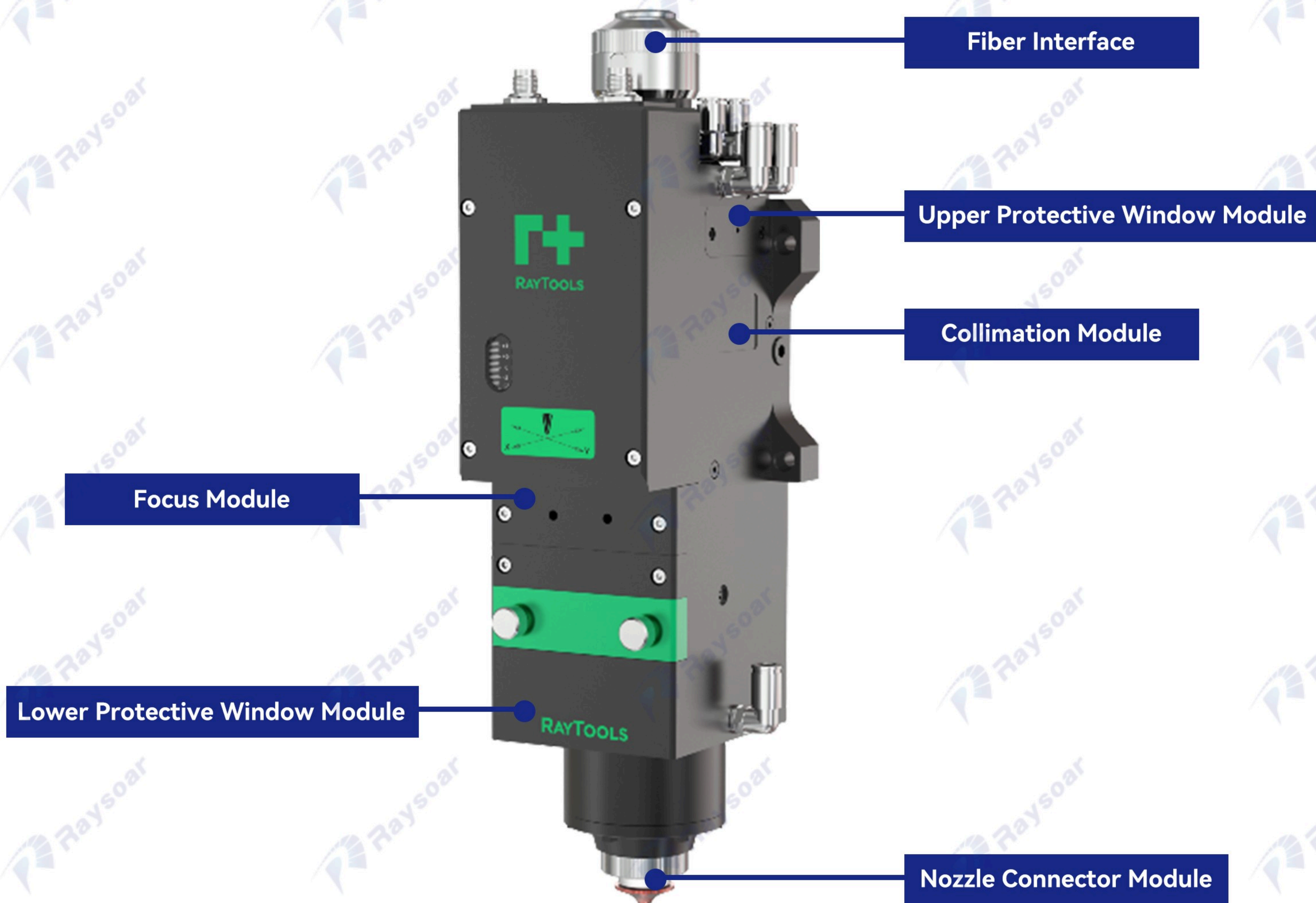
Nozzle Connector	LRTE14-BM115SA	120AU1500A	BM115 F125 M14
	LRTE14-BM115A	120AU2300A	BM115 F150 M11
	LRTE14-BM115A2	120AU2100A	BM115 F200 M11
Nozzle Holder	LRTC09-5099A-O*	120515099A	2D D28H12M11
	LRTC09-0240-O*	120274100B	2D D32H12M14
	LPTC09-0003	P0571-1051-00001	2D D28H12M11
	LRTC09-0240	120274100B	2D D32H12M14
Nozzle	LRTN19-59XX-O2*		2D D28H15M11 Single
	LRTN20-15XXCP-O2*		2D D28H15M11 Double CP
	LRTN01-15XX		2D D32H15M14 Single
	LRTN02-15XXCP		2D D32H15M14 Double CP
	LPTN01-59XX		2D D28H15M11 Single
	LHAN02-59XXE		2D D28H15M11 Double CP



	Part Number	Reference Number	Description
Optical Fiber Connector Module			
Fiber Socket	LRTO26-Q3003*	211FIA3003	QBH with Water Cooling
Collimation Module			
Collimation Lens Assy	LRTO17-C100M5P	120AU4000A	D37-C100
Upper Protective Window Module			
Axial Gasket	LRTC08-0005*	11021M2110005	42.5*34.5*3.2
	LRTC08-4335	11021M2110005	42.5*34.5*3.2
Protective Window	LRTO11-3716P12-O*	211LCG0045	D37*1.6 12KW
	LRTO11-3816P12-O2*	211LCG0076	D38.1*1.6 12KW
	LRTO11-3716Z	211LCG0045	D37*1.6
	LRPO11-3816Z	211LCG0076	D38.1*1.6
Focusing Module			
Focusing Lens Assy	LRTO01-F150M5P		D37-F150
	LRTO01-F150M5T		D37-F150 With Protective Window
	LRTO01-F200M5P	120AU4200A	D37-F200
	LRTO01-F200M5T		D37-F200 With Protective Window
Protective Window	LRTO11-3716P12-O*	211LCG0045	D37*1.6 12KW
	LRTO11-3770P12-O*	211LCG0083	D37*7 12KW
	LRTO11-3770P12-O2*	211LCG0078E	D37*7 12KW
	LRTO11-3770P12-O3*	211LCG0078	D37*7 12KW
	LRTO11-3716Z	211LCG0045	D37*1.6
	LPTO11-3770E	211LCG0078	D37*7
Axial Gasket	LRTC08-0005*	11021M2110005	42.5*34.5*3.2
	LRTC08-4335	11021M2110005	42.5*34.5*3.2
Lower Protective Window Module			
Clamping ring	LRTC08-0308C*	120A30308C	
Axial Gasket	LRTC08-0317B	120A30317B	
Protective Window	LRTO11-3770P12-O*	211LCG0083	D37*7 12KW
	LRTO11-3770P12-O2*	211LCG0078E	D37*7 12KW
	LRTO11-3770P12-O3*	211LCG0078	D37*7 12KW
	LLMO11-3770S	211LCG0083	D37*7
Axial Gasket	LRTC08-0005*	11021M2110005	42.5*34.5*3.2
	LRTC08-4335	11021M2110005	42.5*34.5*3.2

BM06K

Auto Focus Laser Cutting Head



Technical Data

Fiber Interface	QBH, QD, G5
NA	0.13
Auto Focus	
- Range	-35 ~ +25 mm
- Acceleration	$\leq 10 \text{ m/s}^2$
- Velocity	$\leq 200 \text{ m/min}$
- Accuracy	$\leq 10 \text{ }\mu\text{m}$
Cover Glasses	
- Collimation Side (Top)	$\Phi 24.9 \times 1.5 \text{ mm}$
- Focusing Side (Bottom/Middle)	$\Phi 37 \times 7 \text{ mm}$

Collimation Length	100mm
Focus Length	150mm, 200mm
Nozzle Styles	Single, Double, Boost
Diameter of Nozzle Tip	
- Single	1.2-5.0mm
- Double	1.0-1.8mm
- Boost	1.6-7.0mm
Assist Gas Pressure	$\leq 30 \text{ bar}$
Weight	~ 7.5 kg

Specifications subject to change without notice.



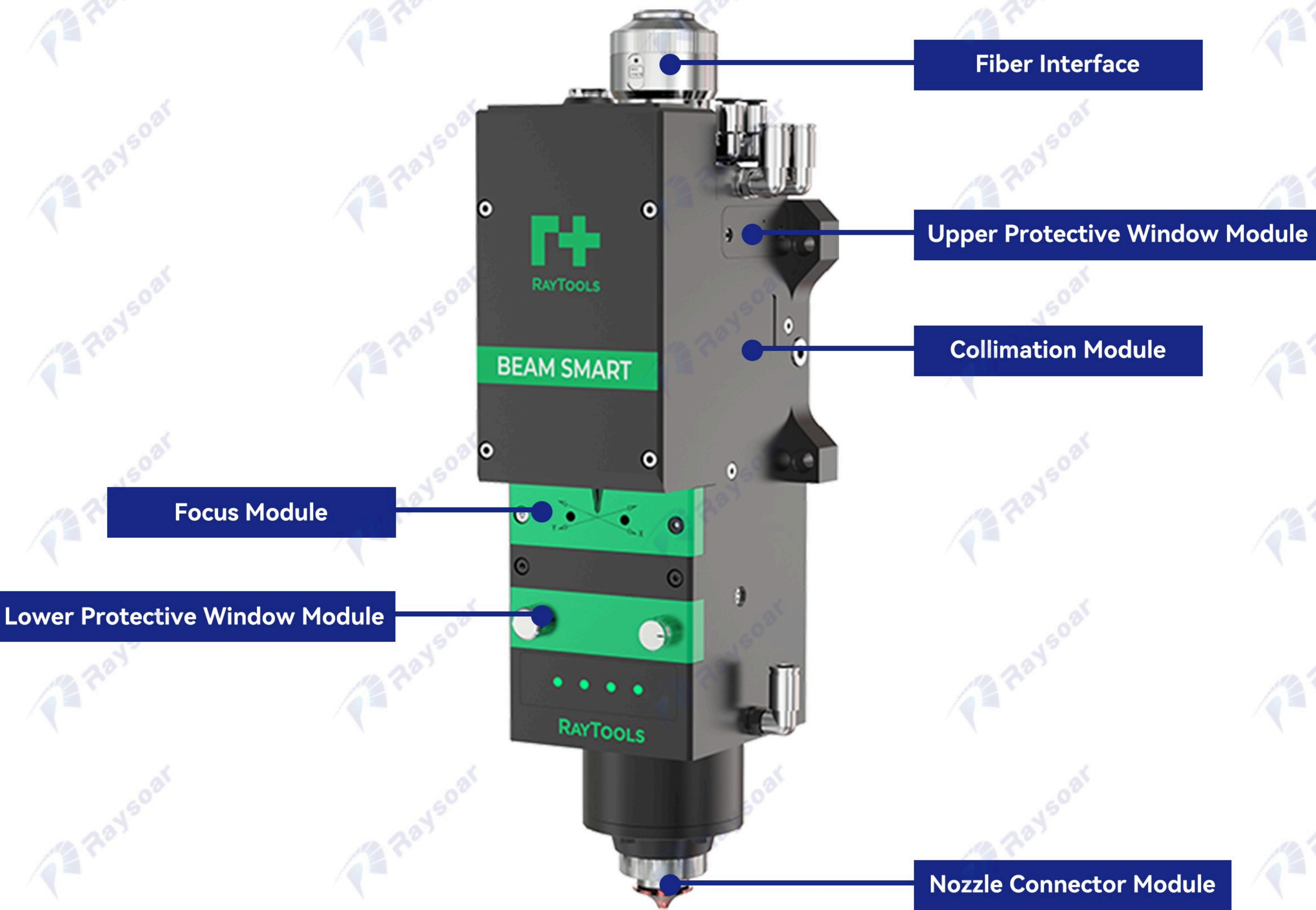
Nozzle Connector Module			
Nozzle Connector	LRTE14-BM06KH1*	120BT0600A	2D QBH F150 Silver
	LRTE14-BM06KH1-2*	120BT2100A	2D QBH F150 Black
	LRTE14-BM06KH2*	120BT0500B	2D QBH F200 Silver
	LRTE14-BM06KH2-2*	120BT1100B	2D QBH F200 Black
	LRTE14-BM06KH2T*	120BF0300A	3D QBH F200 Black
	LRTE14-BM06KH1A	120BT0600A	2D QBH F150 Silver
	LRTE14-BM06KH2A	120BT0500B	2D QBH F200 Silver
	LRTE14-BM06KH2A2	120BT1100B	2D QBH F200 Black
	LRTE14-BM06KH2TA	120BF0300A	3D QBH F200 Black
	LRTE14-BM06KH3TA		3D QBH F300 Black
Nozzle Holder	LRTC09-5099A-O*	120515099A	2D D28H12M11
	LRTC09-5092B-O*	120515092B	3D D21.4H16.9M11
	LRTC09-5093A-O*	120515093A	3D D21.4H12.9M8
	LPTC09-0003	P0571-1051-00001	2D D28H12M11
	LRTC09-5092	120515092B	3D D21.4H16.9M11
	LRTC09-5093	120515093A	3D D21.4H12.9M8
Nozzle	LRTN19-59XX-O2*		2D D28H15M11 Single
	LRTN20-15XXCP-O2*		2D D28H15M11 Double CP
	LRTN33-18XX		3D D15H18M11 Single
	LRTN34-18XX		3D G15H18M11 Double
	LRTN35-19XX-O/O2*		3D D15H19M8 Single
	LRTN36-19XXCP-O/O2*		3D D15H19M8 Double CP
	LPTN01-59XX		2D D28H15M11 Single
	LHAN02-59XXE		2D D28H15M11 Double CP
	LCKN01-19XX		3D D15H19M8 Single
	LCKN02-19XXCP		3D D15H19M8 Double CP



	Part Number	Reference Number	Description
Optical Fiber Connector Module			
Fiber Socket	LRTO26-Q3003*	211FIA3003	QBH with Water Cooling
	LRTO26-Q3006*	211FIA3006	QBH
Collimation Module			
Collimation Lens Assy	LRTO17-C100M6KA-O*	120BT2200Z	D37-C100 2D Aspherical
	LRTO17-C100M6K-O*	120BT0300Z	D37-C100 2D Compound
	LRTO17-C100M6K-O2*	120BF0800A	D37-C100 3D
	LRTO17-C100M6KA	120BT2200Z	D37-C100 2D Aspherical
	LRTO17-C100M6K	120BT0300Z	D37-C100 2D Compound
Lower Protective Window Module			
Protective Window	LRTO11-3770P12-O*	211LCG0083	D37*7 12KW
	LRTO11-3770P12-O2*	211LCG0078E	D37*7 12KW
	LRTO11-3770P12-O3*	211LCG0078	D37*7 12KW
	LPTO11-3770S	211LCG0083	D37*7
Axial Gasket	LRTC08-0005*	11021M2110005	42.5*34.5*3.2
	LRTC08-4335	11021M2110005	42.5*34.5*3.2
Lower Protective Holder	LRTO26-1700A-O*	120BT1700A	Without Protective Window
Upper Protective Window Module			
Protective Window	LRTO11-2515S06-O*	XO.LCG01.0131	D24.9*1.5 6KW
	LRTO11-2515W	XO.LCG01.0131	D24.9*1.5
Upper Protective Holder	LRTO26-1200A-O*	120BT1200A	without Protective Window
Focusing Module			
Focusing Lens Assy	LRTO01-F150M6K-O*	120BT2300Z	D37-F150 2D Silver
	LRTO01-F150M6K-O2*	120BT2900Z	D37-F150 2D Black
	LRTO01-F200M6K-O*	120BT3600Z	D37-F200 2D Silver
	LRTO01-F200M6K-O2*	120BT2800Z	D37-F200 2D Black
	LRTO01-F300M6K-O*	120BF1300A	D37-F300 3D
	LRTO01-F150M6K	120BT2300Z	D37-F150 2D Silver
	LRTO01-F200M6K	120BT3600Z	D37-F200 2D Silver
Protective Window	LRTO11-3770P12-O*	211LCG0083	D37*7 12KW
	LRTO11-3770P12-O2*	211LCG0078E	D37*7 12KW
	LRTO11-3770P12-O3*	211LCG0078	D37*7 12KW
	LPTO11-3770E	211LCG0078	D37*7
Axial Gasket	LRTC08-0005*	11021M2110005	42.5*34.5*3.2
	LRTC08-4335	11021M2110005	42.5*34.5*3.2
Middle Protective Holder	LRTO26-0900A-O*	120BT0900A	Without Protective Window

BS06K

Smart Laser Cutting Head



Technical Data

Model	BS06K
Power Rating	≤6kW
Fiber Interface	QBH / G5
Fiber Wavelength	1080nm
NA	0.13
Collimation Length	F100
Focusing Length	F150 / F200
Auto Focus Range	-17...+17mm / -32...+32mm
Cutting Gas	Φ10, max. 25bar
Cooling Gas	Φ8, max. 5bar
Weight	~5kg



Nozzle Connector Module

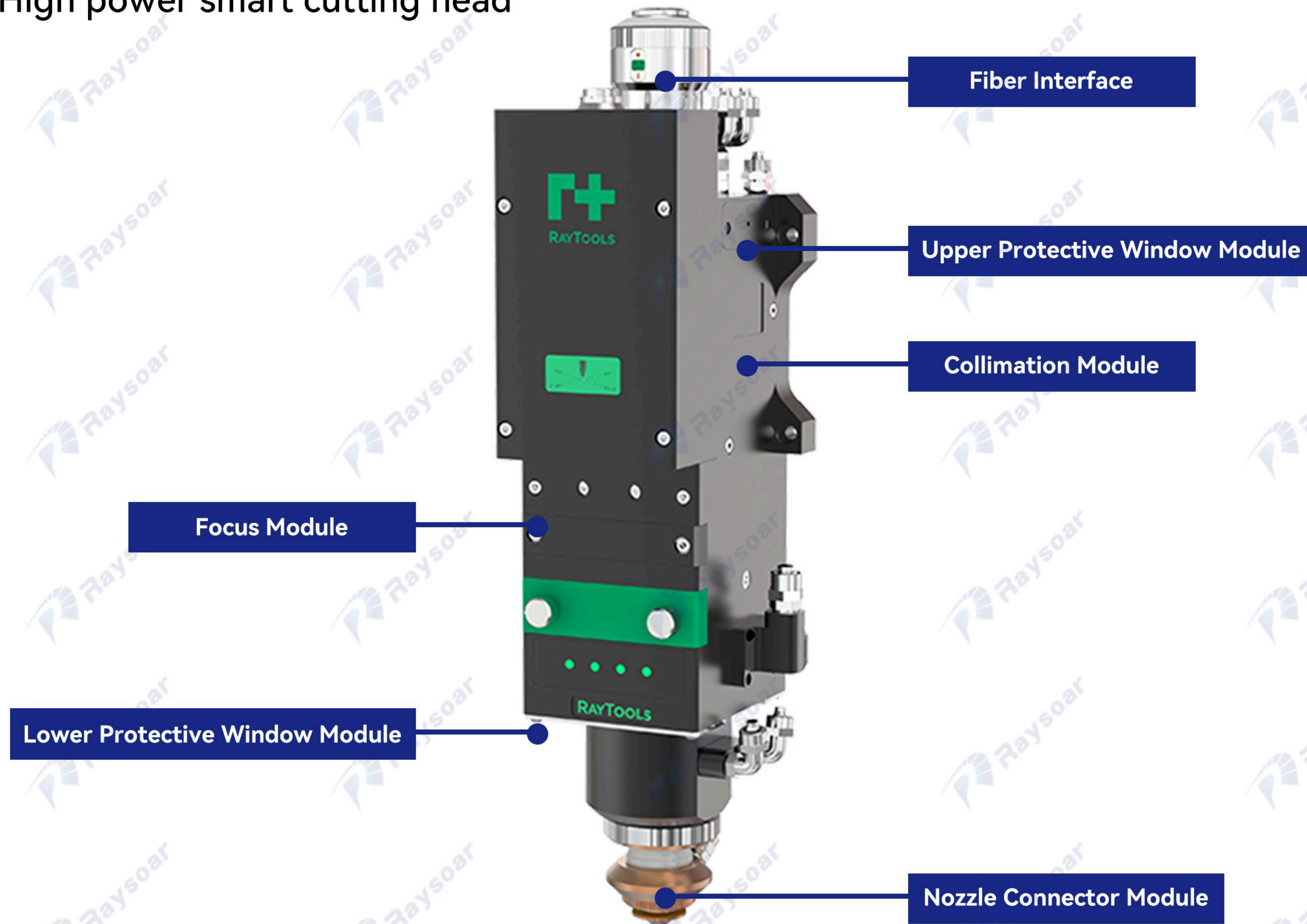
Nozzle Connector	LRTE14-BM06KH1-2*	120BT2100A	2D QBH F150 Black
	LRTE14-BM06KH2-2*	120BT1100B	2D QBH F200 Black
	LRTE14-BS06KD1*	120BS4300A	2D QD F150 Silver
	LRTE14-BS06KD2*	120BS3700A	2D QD F200 Silver
	LRTE14-BM06KH2T*	120BF0300A	3D QBH F200 Black
	LRTE14-BM06KH2A2	120BT1100B	2D QBH F200 Black
	LRTE14-BS06KD1A	120BS4300A	2D QD F150 Silver
	LRTE14-BS06KD2A	120BS3700A	2D QD F200 Silver
	LRTE14-BM06KH2TA	120BF0300A	3D QBH F200 Black
	LRTE14-BM06KH3TA		3D QBH F300 Black
Nozzle Holder	LRTC09-5099A-O*	120515099A	2D D28H12M11
	LRTC09-5092B-O*	120515092B	3D D21.4H16.9M11
	LRTC09-5093A-O*	120515093A	3D D21.4H12.9M8
	LPTC09-0003	P0571-1051-00001	2D D28H12M11
	LRTC09-5092	120515092B	3D D21.4H16.9M11
	LRTC09-5093	120515093A	3D D21.4H12.9M8
Nozzle	LRTN19-59XX-O2*		2D D28H15M11 Single
	LRTN20-15XXCP-O2*		2D D28H15M11 Double CP
	LRTN33-18XX		3D D15H18M11 Single
	LRTN34-18XX		3D G15H18M11 Double
	LRTN35-19XX-O/O2*		3D D15H19M8 Single
	LRTN36-19XXCP-O/O2*		3D D15H19M8 Double CP
	LPTN01-59XX		2D D28H15M11 Single
	LHAN02-59XXE		2D D28H15M11 Double CP
	LCKN01-19XX		3D D15H19M8 Single
	LCKN02-19XXCP		3D D15H19M8 Double CP



	Part Number	Reference Number	Description
Optical Fiber Connector Module			
Fiber Socket	LRTO26-Q3003*	211FIA3003	QBH with Water Cooling
	LRTO26-Q3006*	211FIA3006	QBH
Upper Protective Window Module			
Protective Window	LRTO11-2515S06-O*	XO.LCG01.0131	D24.9*1.5 6KW
	LRTO11-2515W	XO.LCG01.0131	D24.9*1.5
Upper Protective Holder	LRTO26-1200A-O*	120BT1200A	without Protective Window
Collimation Module			
Collimation Lens Assy	LRTO17-C100M6K-O*	120BT0300Z	D37-C100 2D
	LRTO17-C100M6K	120BT0300Z	D37-C100 2D
Lower Protective Window Module			
Protective Window	LRTO11-3770P12-O*	211LCG0083	D37*7 12KW
	LRTO11-3770P12-O2*	211LCG0078E	D37*7 12KW
	LRTO11-3770P12-O3*	211LCG0078	D37*7 12KW
	LPTO11-3770S	211LCG0083	D37*7
Axial Gasket	LRTC08-0005*	11021M2110005	42.5*34.5*3.2
	LRTC08-4335	11021M2110005	42.5*34.5*3.2
Lower Protective Holder	LRTO26-1700A-O*	120BT1700A	Without Protective Window
Focusing Module			
Focusing Lens Assy	LRTO01-F150M6K-O*	120BT2300Z	D37-F150 2D Silver
	LRTO01-F150M6K-O2*	120BT2900Z	D37-F150 2D Black
	LRTO01-F200M6K-O*	120BT3600Z	D37-F200 2D Silver
	LRTO01-F200M6K-O2*	120BT2800Z	D37-F200 2D Black
	LRTO01-F150M6K	120BT2300Z	D37-F150 2D Silver
	LRTO01-F200M6K	120BT3600Z	D37-F200 2D Silver
Protective Window	LRTO11-3770P12-O*	211LCG0083	D37*7 12KW
	LRTO11-3770P12-O2*	211LCG0078E	D37*7 12KW
	LRTO11-3770P12-O3*	211LCG0078	D37*7 12KW
	LPTO11-3770E	211LCG0078	D37*7
Axial Gasket	LRTC08-0005*	11021M2110005	42.5*34.5*3.2
	LRTC08-4335	11021M2110005	42.5*34.5*3.2
Middle Protective Holder	LRTO26-0900A-O*	120BT0900A	Without Protective Window

BS12K

High power smart cutting head



Technical Data

Model	Raytools BS12K-CAT
Fiber Interface	QBH, LOE, QD, Q+
Fiber Wavelength	1080nm
Laser Power	12kW
NA	0.14
Auto Focus Range (- level)	-1.5 ~ +1.5mm
Auto Focus Range (- vertical)	-40+40mm
Collimating Focal Length	F100
Focusing Focal Length	F220
Cooling Water	Ø8, max. 5bar, min. 1.5 L/min
Cutting Gas	Ø10, max. 25bar
Operating Voltage	24V±10%, max. 4A
I/O Interface (19-pin)	max. 30mA
Laser Cutting Head Weight	8.3KG-8.7KG



Nozzle Connector Module

Nozzle Connector	LRTE14-BS12KH2*	120BS5600A	2D F220
	LRTE14-BS12KT*	120BF1200A	3D F300
	LRTE14-BS12KH2A	120BS5600A	2D F220
Nozzle Holder	LRTC09-5089A-O*	120515089A	2D D41H48.4M11
	LRTC09-5092B-O*	120515092B	3D D21.4H16.9M11
	LRTC09-5093A-O*	120515093A	3D D21.4H12.9M8
	LRTC09-5089A	120515089A	2D D41H48.4M11
	LRTC09-5092	120515092B	3D D21.4H16.9M11
	LRTC09-5093	120515093A	3D D21.4H12.9M8
Nozzle	LRTN19-59XX-O2*		2D D28H15M11 Single
	LRTN20-15XXCP-O2*		2D D28H15M11 Double CP
	LRTN33-18XX		3D D15H18M11 Single
	LRTN34-18XX		3D G15H18M11 Double
	LRTN35-19XX-O/O2*		3D D15H19M8 Single
	LRTN36-19XXCP-O/O2*		3D D15H19M8 Double CP
	LPTN01-59XX		2D D28H15M11 Single
	LHAN02-59XXE		2D D28H15M11 Double CP
	LCKN01-19XX		3D D15H19M8 Single
	LCKN02-19XXCP		3D D15H19M8 Double CP



	Part Number	Reference Number	Description
Optical Fiber Connector Module			
Fiber Socket	LRTO26-Q3006*	211FIA3006	QBH
	LRTO26-0005-O*	211FIA3007	QD
	LRTO26-0003-O*	211FIA4003	Q+
Collimation Module			
Collimation Lens Assy	LRTO17-C100S12K-O*	120BS5800A	D37-C100
	LRTO17-C100S12K	120BS5800A	D37-C100
Lower Protective Window Module			
Protective Window	LRTO11-3770P12-O*	211LCG0083	D37*7 12KW
	LRTO11-3770P12-O2*	211LCG0078E	D37*7 12KW
	LRTO11-3770P12-O3*	211LCG0078	D37*7 12KW
	LPTO11-3770P	211LCG0083	D37*7
Axial Gasket	LRTC08-0005*	11021M2110005	42.5*34.5*3.2
	LRTC08-4335	11021M2110005	42.5*34.5*3.2
Lower Protective Holder	LRTO26-700A-O*	120BS0700A	Without Protective Window
Upper Protective Window Module			
Protective Window	LRTO11-2515P-O*	211LCG0086	D24.9*1.5 12-40KW
Upper Protective Holder	LRTO26-6300A-O*	120BS6300A	without Protective Window
Focusing Module			
Focusing Lens Assy	LRTO01-F220S12K-O*	120BS5900A	D37-F220
	LRTO01-F220S12K*	120BS5900A	D37-F220
Protective Window	LRTO11-3770P12-O*	211LCG0083	D37*7 12KW
	LRTO11-3770P12-O2*	211LCG0078E	D37*7 12KW
	LRTO11-3770P12-O3*	211LCG0078	D37*7 12KW
	LPTO11-3770E	211LCG0078	D37*7
Axial Gasket	LRTC08-0005*	11021M2110005	42.5*34.5*3.2
	LRTC08-4335	11021M2110005	42.5*34.5*3.2
Middle Protective Holder	LRTO26-0900A-O*	120BT0900A	Without Protective Window

BS03K-CAT

Smart Laser Cutting Head



Technical Data

Model	BS30K
Power Rating	≤3kW
Fiber Interface	QBH
Fiber Wavelength	1080nm
NA	0.13
Collimation Length	F100
Focusing Length	F150
Auto Focus Range	-22...+22mm
Cutting Gas	Φ10, max. 25bar
Cooling Gas	Φ8, max. 5bar
Weight	~5kg



Nozzle Connector Module

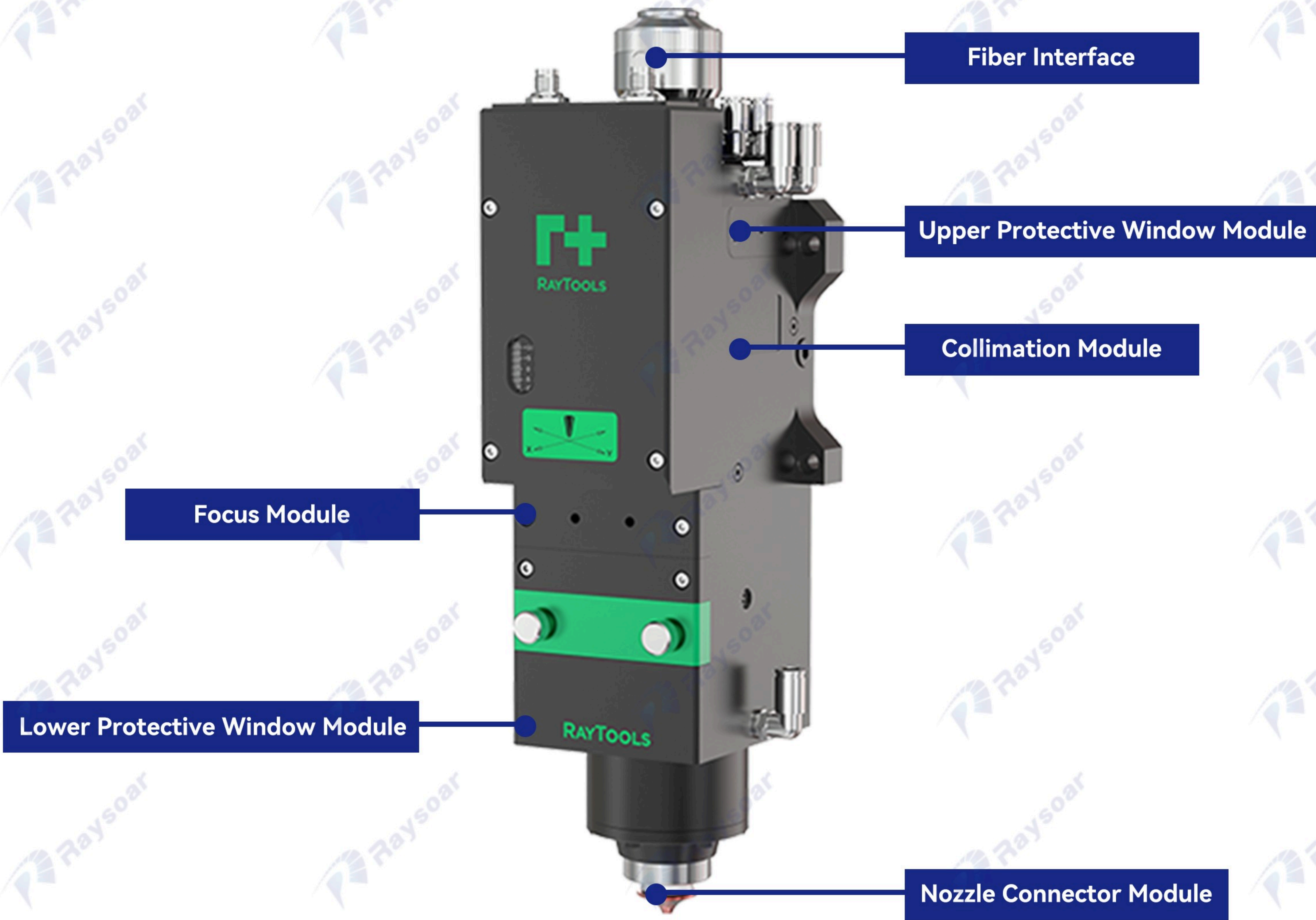
Nozzle Connector	LRTE14-BS03KC2*	YM.TRA04.0188	2D F125
	LRTE14-BS03KC1*	YM.TRA04.0167	2D F150
	LRTE14-BS03KCT2*	YM.TRA04.0169	3D F200
Nozzle Holder	LRTC09-5099A-O*	120515099A	2D D28H12M11
	LRTC09-0023-O*	XP.CER00.0023	3D D21.4H16.9M11
	LRTC09-0024-O*	XP.CER00.0024	3D D21.4H12.9M8
	LPTC09-0003	P0571-1051-00001	2D D28H12M11
	LRTC09-0023	XP.CER00.0023	3D D21.4H16.9M11
Nozzle	LRTN19-59XX-O2*		2D D28H15M11 Single
	LRTN20-15XXCP-O2*		2D D28H15M11 Double CP
	LRTN33-18XX		3D D15H18M11 Single
	LRTN34-18XX		3D G15H18M11 Double
	LRTN35-19XX-O/O2*		3D D15H19M8 Single
	LRTN36-19XXCP-O/O2*		3D D15H19M8 Double CP
	LPTN01-59XX		2D D28H15M11 Single
	LHAN02-59XXE		2D D28H15M11 Double CP
	LCKN01-19XX		3D D15H19M8 Single
	LCKN02-19XXCP		3D D15H19M8 Double CP



	Part Number	Reference Number	Description
Optical Fiber Connector Module			
Fiber Socket	LRTO26-Q3003*	211FIA3003	QBH with Water Cooling
Upper Protective Window Module			
Protective Window	LRTO11-2515S-O*	211LCG0020E	D24.9*1.5 3KW
	LRTO11-2515S-O2*	211LCG0020	D24.9*1.5 3KW
	LRTO11-2515W	211LCG0020	D24.9*1.5
Upper Protective Holder	LRTO26-0042-O*	YO.BJZ01.0042	
Collimation Module			
Collimation Lens Assy	LRTO17-C100S03KC-O*	YO.TJZ01.0352	D30-C100
Lower Protective Module			
Protective Window	LLMO11-2840S-O*	211LCG0037E	D27.9*4.1 3KW
	LLMO11-2840S-O2*	211LCG0037	D27.9*4.1 3KW
	LLMO11-2840S	211LCG0037	D27.9*4.1
Axial Gasket	LRTC08-0007-O*	11021M2110007	32.2*24*3.55
	LRTC08-3224	11021M2110007	32.2*24*3.55
Lower Protective Holder	LRTO26-0044-O*	YO.BJZ01.0044	
Focusing Module			
Focusing Lens Assy	LRTO01-F125S03KC-O*	YO.TJZ01.0398	D30-F125
	LRTO01-F150S03KC-O*	YO.TJZ01.0297	D30-F150
	LRTO01-F200S03KC-O*	YO.TJZ01.0338	D30-F200 3D
Protective Window	LLMO11-2840S-O*	211LCG0037E	D27.9*4.1 3KW
	LLMO11-2840S-O2*	211LCG0037	D27.9*4.1 3KW

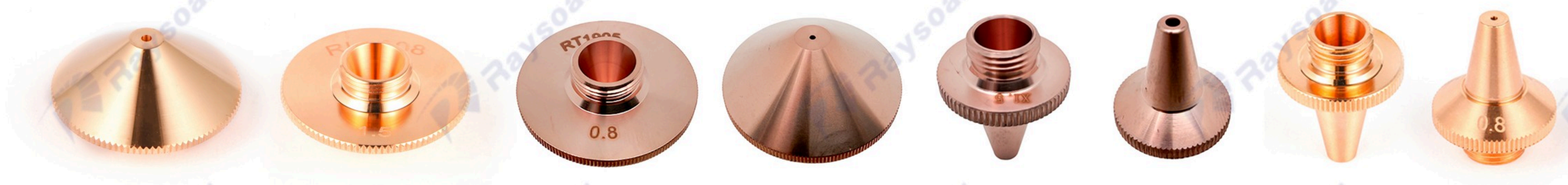
BS06K-CAT

High power smart cutting head

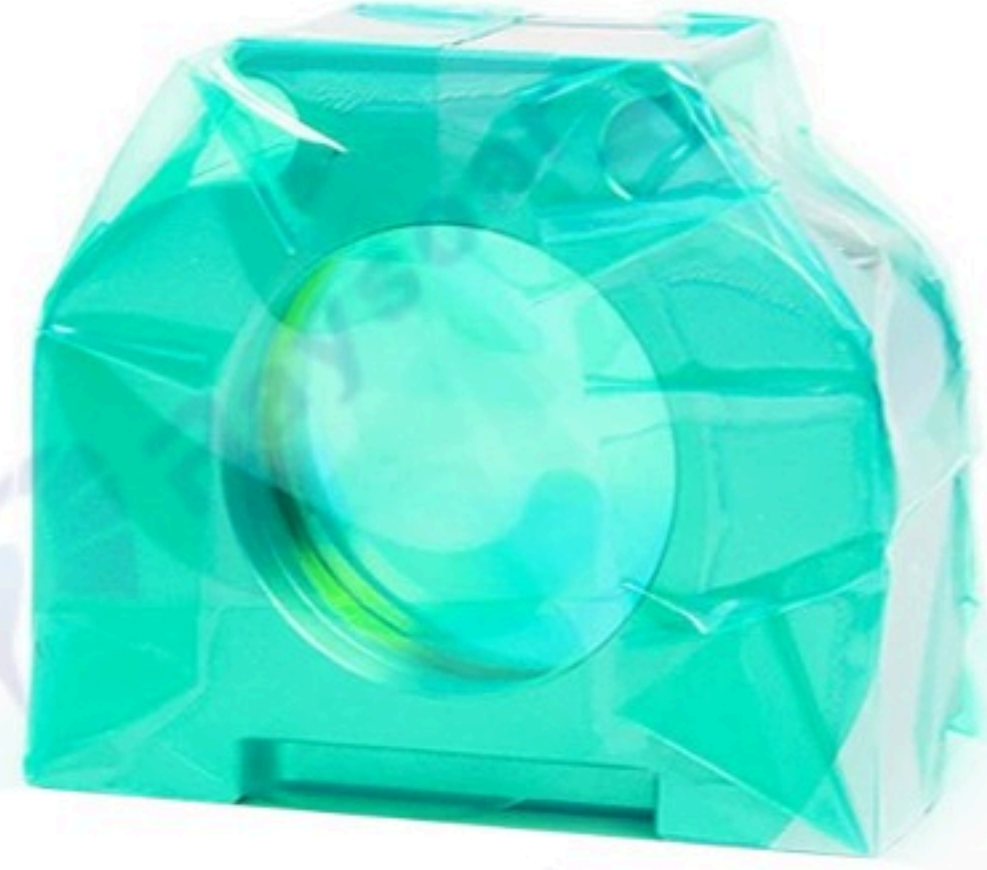


Technical Data

Model	BS06K
Power Rating	≤6kW
Fiber Interface	QBH / G5
Fiber Wavelength	1080nm
NA	0.13
Collimation Length	F100
Focusing Length	F150 / F200
Auto Focus Range	-17...+17mm / -32...+32mm
Cutting Gas	Φ10, max. 25bar
Cooling Gas	Φ8, max. 5bar
Weight	~5kg



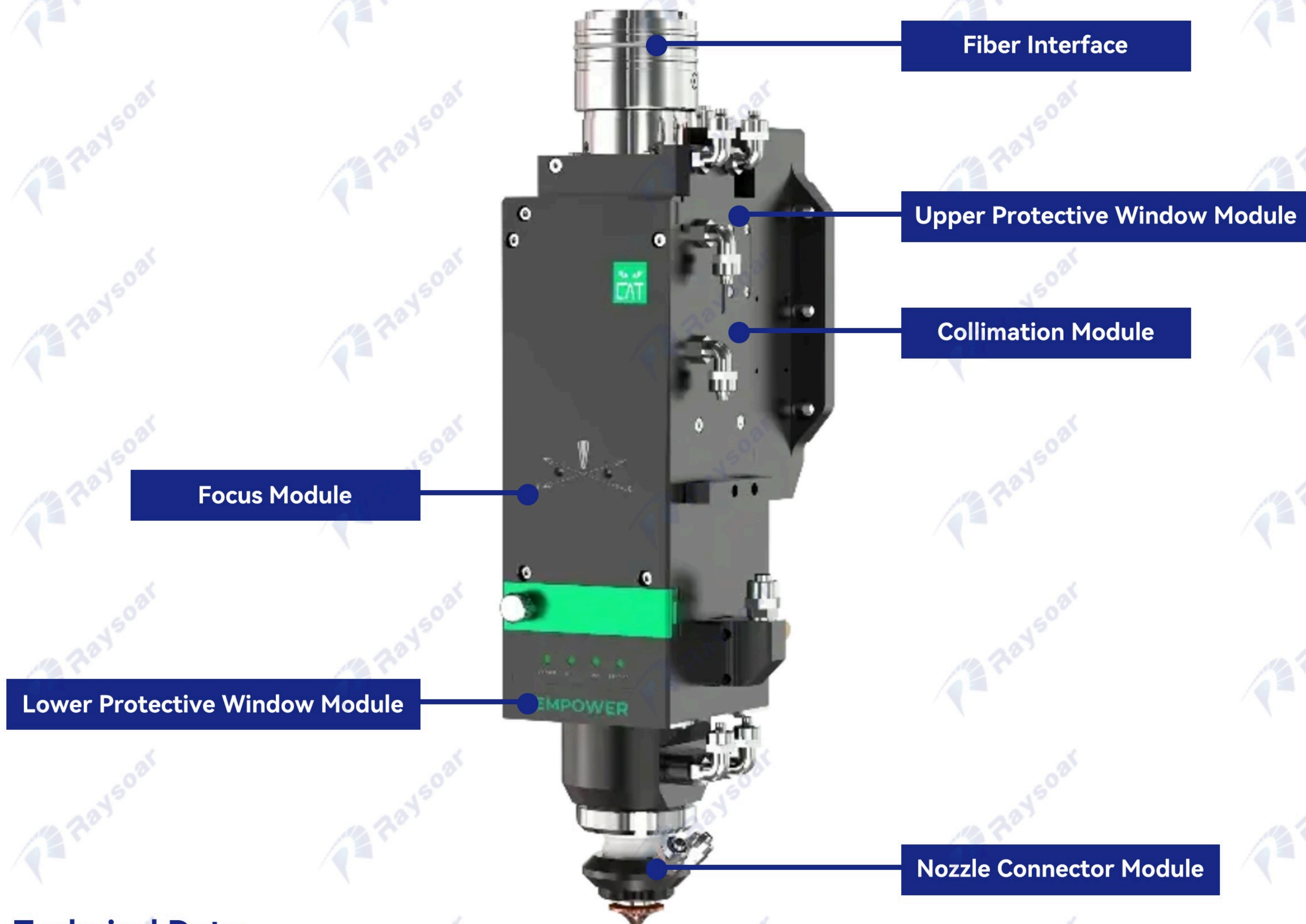
Nozzle Connector Module			
Nozzle Connector	LRTE14-BS03KC1*	YM.TRA04.0167	2D F150
	LRTE14-BS06KC2*	YM.TRA04.0168	2D F200
	LRTE14-BS03KCT2*	YM.TRA04.0169	3D F200
	LRTE14-BS06KCT3*	YM.TRA04.0177	3D F300
Nozzle Holder	LRTC09-5099A-O*	120515099A	2D D28H12M11
	LRTC09-0023-O*	XP.CER00.0023	3D D21.4H16.9M11
	LRTC09-0024-O*	XP.CER00.0024	3D D21.4H12.9M8
	LPTC09-0003	P0571-1051-00001	2D D28H12M11
	LRTC09-0023	XP.CER00.0023	3D D21.4H16.9M11
Nozzle	LRTN19-59XX-O2*		2D D28H15M11 Single
	LRTN20-15XXCP-O2*		2D D28H15M11 Double CP
	LRTN33-18XX		3D D15H18M11 Single
	LRTN34-18XX		3D G15H18M11 Double
	LRTN35-19XX-O/O2*		
	LRTN36-19XXCP-O/O2*		
	LPTN01-59XX		2D D28H15M11 Single
	LHAN02-59XXE		2D D28H15M11 Double CP
	LCKN01-19XX		3D D15H19M8 Single
	LCKN02-19XXCP		3D D15H19M8 Double CP



	Part Number	Reference Number	Description
Optical Fiber Connector Module			
Fiber Socket	LRTO26-Q3003*	211FIA3003	QBH with Water Cooling
Upper Protective Window Module			
Protective Window	LRTO11-2515S06-O*	XO.LCG01.0131	D24.9*1.5
	LRTO11-2515W	XO.LCG01.0131	
Upper Protective Holder Assy	LRTO26-0054-O*	YO.BJZ01.0054	
Collimation Module			
Protective Window	LRTO11-2515S06*	XO.LCG01.0131	D24.9*1.5 6KW
	LRTO11-2515W	XO.LCG01.0131	D24.9*1.5
Collimation Middle Protective Holder Assy	LRTO26-0055-O*	YO.BJZ01.0055	
Collimation Lens Assy	LRTO17-C100S06KC-O*	YO.TJZ01.0337	D30-C100
Lower Protective Window Module			
Protective Window	LLMO11-2840S06-O*	XO.LCG01.0123	D27.9*4.1 6KW
	LLMO11-2840S06-O2*	XO.LCG01.0114	D27.9*4.1 6KW
	LLMO11-2840S	XO.LCG01.0114	D27.9*4.1
Axial Gasket	LRTC08-0007-O*	11021M2110007	32.2*24*3.55
	LRTC08-3224	11021M2110007	32.2*24*3.55
Lower Protective Holder Assy	LRTO26-0056-O*	YO.BJZ01.0056	
Focusing Module			
Focusing Lens Assy	LRTO01-F150S06KC-O*	YO.TJZ01.0339	D30-F150 2D
	LRTO01-F200S03KC-O*	YO.TJZ01.0338	D30-F200 2D/3D
	LRTO01-F300S06KC-O*	YO.TJZ01.0355	D30-F300 3D
Protective Window	LLMO11-2840S06-O*	XO.LCG01.0123	D27.9*4.1 6KW
	LLMO11-2840S06-O2*	XO.LCG01.0114	D27.9*4.1 6KW
Axial Gasket	LRTC08-0007-O*	11021M2110007	32.2*24*3.55
	LRTC08-3224	11021M2110007	32.2*24*3.55
Focusing Middle Protective Holder Assy	LRTO26-0059-O*	YO.BJZ01.0059	

BS12K-CAT

High power smart cutting head



Technical Data

Model	BS06K
Power Rating	≤6kW
Fiber Interface	QBH / G5
Fiber Wavelength	1080nm
NA	0.13
Collimation Length	F100
Focusing Length	F150 / F200
Auto Focus Range	-17...+17mm / -32...+32mm
Cutting Gas	Φ10, max. 25bar
Cooling Gas	Φ8, max. 5bar
Weight	~5kg



Nozzle Connector Module

Nozzle Connector	LRTE14-BS12KC*	YM.TRA04.0172	2D F220
	LRTE14-BS12KCT1*	YM.TRA04.0174	3D F220
	LRTE14-BS12KCT2*	YM.TRA04.0175	3D F300
Nozzle Holder	LRTC09-5089A-O*	120515089A	2D D41H48.4M11
	LRTC09-5092B-O*	120515092B	3D D21.4H16.9M11
	LRTC09-5093A-O*	120515093A	3D D21.4H12.9M8
	LRTC09-5089A	120515089A	2D D41H48.4M11
	LRTC09-5092	120515092B	3D D21.4H16.9M11
	LRTC09-5093	120515093A	3D D21.4H12.9M8
Nozzle	LRTN19-59XX-O2*		2D D28H15M11 Single
	LRTN20-15XXCP-O2*		2D D28H15M11 Double CP
	LRTN33-18XX		3D D15H18M11 Single
	LRTN34-18XX		3D G15H18M11 Double
	LRTN35-19XX-O/O2*		3D D15H19M8 Single
	LRTN36-19XXCP-O/O2*		3D D15H19M8 Double CP
	LPTN01-59XX		2D D28H15M11 Single
	LHAN02-59XXE		2D D28H15M11 Double CP
	LCKN01-19XX		3D D15H19M8 Single
	LCKN02-19XXCP		3D D15H19M8 Double CP



	Part Number	Reference Number	Description
Optical Fiber Connector Module			
Fiber Socket	LRTO26-0005-O*	211FIA3007	QD
	LRTO26-0003-O*	211FIA4003	Q+
Upper Protective Window Module			
Protective Window	LRTO11-2515P-O*	211LCG0086	D24.9*1.5 12-40KW
Collimation Module			
Protective Window	LRTO11-2515P-O*	211LCG0086	D24.9*1.5 12-40KW
Collimation Middle Protective Holder Assy	LRTO26-0060-O*	YO.BJZ01.0060	
Collimation Lens Assy	LRTO17-C100S12KC-O*	YO.TJZ01.0340	D37-C100
Lower Protective Window Module			
Protective Window	LRTO11-3770P12-O*	211LCG0083	D37*7 12KW
	LRTO11-3770P12-O2*	211LCG0078E	D37*7 12KW
	LRTO11-3770P12-O3*	211LCG0078	D37*7 12KW
	LPTO11-3770P	211LCG0083	D37*7
Axial Gasket	LRTC08-0005*	11021M2110005	42.5*34.5*3.2
	LRTC08-4335	11021M2110005	42.5*34.5*3.2
Lower Protective Holder Assy	LRTO26-0063-O*	YO.BJZ01.0063	
Focusing Module			
Focusing Lens Assy	LRTO01-F220S12KC-O*	YO.TJZ01.0084	D37-F220 2D/3D
	LRTO01-F300S12KC-O*	YO.TJZ01.0341	D37-F300 2D/3D
Protective Window	LRTO11-3770P12-O*	211LCG0083	D37*7 12KW
	LRTO11-3770P12-O2*	211LCG0078E	D37*7 12KW
	LRTO11-3770P12-O3*	211LCG0078	D37*7 12KW
	LPTO11-3770E	211LCG0078	D37*7
Axial Gasket	LRTC08-0005*	11021M2110005	42.5*34.5*3.2
	LRTC08-4335	11021M2110005	42.5*34.5*3.2

BS20K-CAT

High power smart cutting head

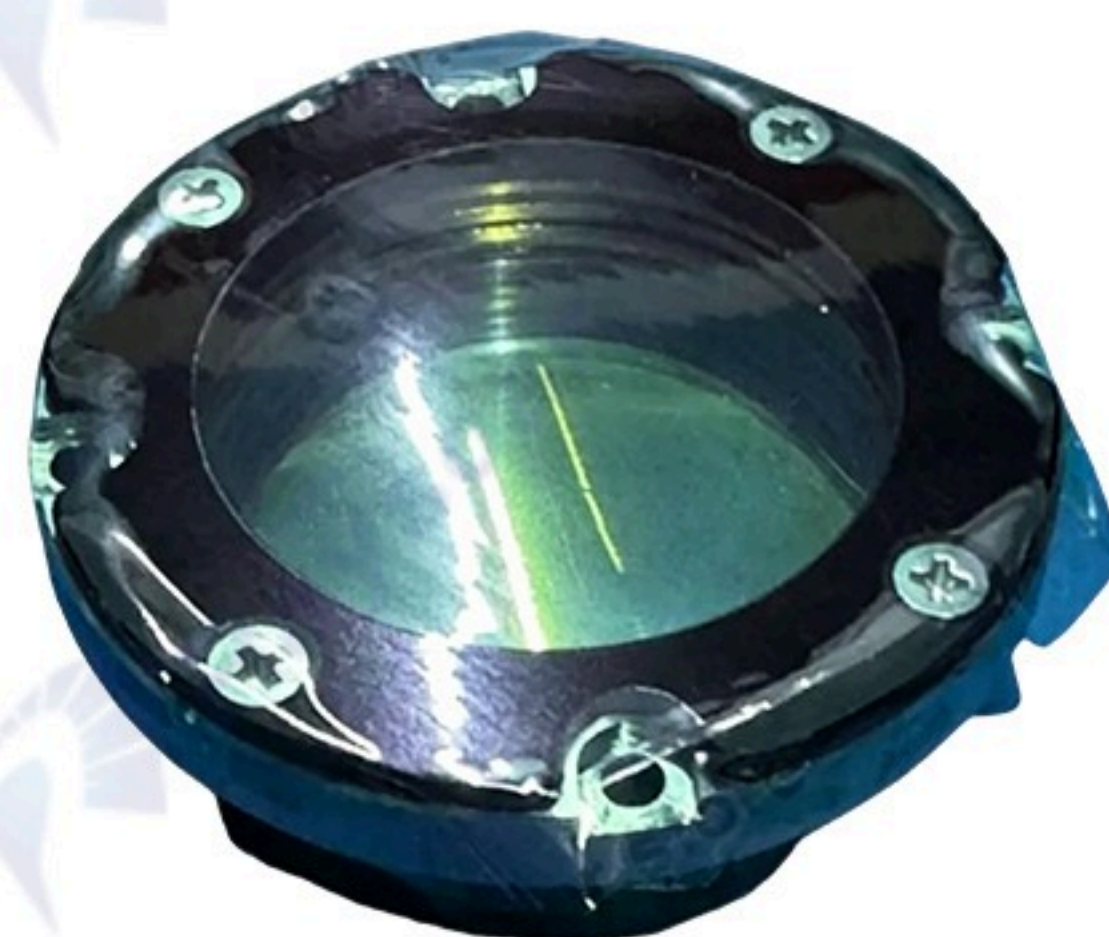


Technical Data

Model	BS06K
Power Rating	≤6kW
Fiber Interface	QBH / G5
Fiber Wavelength	1080nm
NA	0.13
Collimation Length	F100
Focusing Length	F150 / F200
Auto Focus Range	-17...+17mm / -32...+32mm
Cutting Gas	Φ10, max. 25bar
Cooling Gas	Φ8, max. 5bar
Weight	~5kg



Nozzle Connector Module			
Nozzle Connector	LRTE14-BS12KC*	YM.TRA04.0172	2D F220
	LRTE14-BS20KC*	YM.TRA04.0173	2D F300
	LRTE14-BS12KCT1*	YM.TRA04.0174	3D F220
	LRTE14-BS12KCT2*	YM.TRA04.0175	3D F300
Nozzle Holder	LRTC09-5089A-O*	120515089A	2D D41H48.4M11
	LRTC09-5092B-O*	120515092B	3D D21.4H16.9M11
	LRTC09-5093A-O*	120515093A	3D D21.4H12.9M8
	LRTC09-5089A	120515089A	2D D41H48.4M11
	LRTC09-5092	120515092B	3D D21.4H16.9M11
	LRTC09-5093	120515093A	3D D21.4H12.9M8
Nozzle	LRTN19-59XX-O2*		2D D28H15M11 Single
	LRTN20-15XXCP-O2*		2D D28H15M11 Double CP
	LRTN33-18XX		3D D15H18M11 Single
	LRTN34-18XX		3D G15H18M11 Double
	LRTN35-19XX-O/O2*		3D D15H19M8 Single
	LRTN36-19XXCP-O/O2*		3D D15H19M8 Double CP
	LPTN01-59XX		2D D28H15M11 Single
	LHAN02-59XXE		2D D28H15M11 Double CP
	LCKN01-19XX		3D D15H19M8 Single
	LCKN02-19XXCP		3D D15H19M8 Double CP



	Part Number	Reference Number	Description
Optical Fiber Connector Module			
Fiber Socket	LRTO26-0005-O*	211FIA3007	QD
	LRTO26-0003-O*	211FIA4003	Q+
Upper Protective Window Module			
Protective Window	LRTO11-2515P-O*	211LCG0086	D24.9*1.5 12-40KW
Collimation Module			
Protective Window	LRTO11-2515P-O*	211LCG0086	D24.9*1.5 12-40KW
Collimation Middle Protective Holder Assy	LRTO26-0060-O*	YO.BJZ01.0060	
Collimation Lens Assy	LRTO17-C100S20KC-O*	YO.TJZ01.0342	D37-C100
Lower Protective Window Module			
Protective Window	LRTO11-3770P20-O*	XO.LCG01.0132	D37*7 20KW
	LRTO11-3770P20-O2*	XO.LCG01.0120	D37*7 20KW
	LPTO11-3770P20	XO.LCG01.0132	D37*7
Axial Gasket	LRTC08-0005*	11021M2110005	42.5*34.5*3.2
	LRTC08-4335	11021M2110005	42.5*34.5*3.2
Lower Protective Holder Assy	LRTO26-0069-O*	YO.BJZ01.0069	
Focusing Module			
Focusing Lens Assy	LRTO01-F220S12KC-O*	YO.TJZ01.0084	D37-F220 2D/3D
	LRTO01-F300S12KC-O*	YO.TJZ01.0341	D37-F300 2D/3D
Protective Window	LRTO11-3770P20-O*	XO.LCG01.0132	D37*7 20KW
	LRTO11-3770P20-O2*	XO.LCG01.0120	D37*7 20KW
Axial Gasket	LRTC08-0005*	11021M2110005	42.5*34.5*3.2
	LRTC08-4335	11021M2110005	42.5*34.5*3.2