

ORIGINAL RAYTOOLS SPARE PARTS CATALOG



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Raytools OEM original Protective windows/Cover glass



PROTECTIVE WINDOWS			
ESSE A PN	RAYTOOLS PN	DESCRIPTION	Raytools Head Model WHERE USED
PW0022II	211LCG0020	RAYTOOLS Cover glass D24.9*1.5 QBH	USED ON BT210/BT210S/BT220RC/HEADS BT240S/BM109/BM111/BS12K
PW0023II	211LCG0037	RAYTOOLS Cover glass 27.9mm DIA x 4.1mm 1064nm	USED ON HEADS BT210/BT210S/BT220RC/BT240/BT240S/BM109/BM111
PW0024II	211LCG0076	RAYTOOLS Cover glass 38.1mm DIA x 1.6mm 1064nm 8kW	USED ON HEADS BM114/BM114S
PW0027II	110255IAG0004 - 31200000090	RAYTOOLS Cover glass 37mm DIA x 7.0mm 1064nm 6kW	USED ON HEADS BM114/BM114S
PW0029II	211LCG0045	RAYTOOLS Cover glass 37mm DIA x 1.6mm 1064nm 6kW	USED ON BM115/BM116
PW0028II	211LCG0078	RAYTOOLS Cover glass window 37mm DIA x 7mm Fused Silica 1064nm 12kw	USED ON HEAD BM115/BM116/BS12K



Raytools OEM original Cables



CABLES			
ESSE A PN	RAYTOOLS PN	DESCRIPTION	Raytools Head Model WHERE USED
AL9012	211TTW9012	RAYTOOLS Tip transformer wire SMB–SMA 15cmz/z	USED ON HEADS BT240/BT240S/BM109/BM111/BM114/BM114S/BM115
AL9002	211TTW9002	RAYTOOLS Tip transformer wire SMA–SMA 15cmz/z	USED ON HEADS BT210/BT210S/BT210SRCBT220RC//BM109TC/BM111TC



Raytools OEM ORIGINAL LENS



LENS			
ESSE A PN	RAYTOOLS PN	DESCRIPTION	Raytools Head Model WHERE USED
AL0019	110255AACBHD0019	RAYTOOLS Collimation lens Meniscus, D28-BFL100mmFused Silica, 1064	USED ON HEADS BT210S/BM109
AL0020	110255AAFBHD0020	RAYTOOLS Collimation lens Biconvex, D28-BFL100mmFused Silica, 1064	
AL0021	110255AACBHD0021	RAYTOOLS Focus lens Meniscus, Fused Silica-27.94mm-BFL125mm-1064nm	
AL0022	110255AAFBHD0022	RAYTOOLS Focus lens Biconvex, Fused Silica-27.94mm-BFL125mm-1064nm	
AL0025	110255AAFBHD0025	RAYTOOLS Focus lens Biconvex, D28-BFL150mmFused Silica, 1064	
AL0026	110255AACBHD0026	RAYTOOLS Focus lens Meniscus, D28-BFL150mmFused Silica, 1064	
AL0096	110255AAEBHE0096	RAYTOOLS Collimation lens Meniscus, D30-F100 Fused Silica 1064nm, 2kW -P	USED ON HEADS BT240/BT240S 2KW
AL0095	110255AACBHE0095	RAYTOOLS Collimation lens Biconvex, D30-F100 Fused Silica 1064nm, 2kW -P	
AL0097	110255AACBHE0097	RAYTOOLS Focus lens Biconvex, D30-F125 Fused Silica 1064nm, 2kW -P	
AL0098	110255AAEBHE0098	RAYTOOLS Focus lens Meniscus, D30-F125 Fused Silica 1064nm, 2kW -P	
AL0089	110255AAFBHE0089	RAYTOOLS Collimation lens Meniscus, D30-F100 Fused Silica 1064nm	USED ON HEADS BT240/BT240S 3.3KW and BM111/BM111E
AL0090	110255AACBHE0090	RAYTOOLS Collimation lens Biconvex, D30-F100 Fused Silica 1064nm	
AL0092	110255AACBHE0092	RAYTOOLS Focus lens Biconvex, D30-F125 Fused Silica 1064nm	
AL0091	110255AAFBHE0091	RAYTOOLS Focus lens Meniscus, D30-F125 Fused Silica 1064nm	
AL0093	110255AACBHE0093	RAYTOOLS Focus lens Biconvex, D30-155mm,	
AL0094	110255AAEBHE0094	RAYTOOLS Focus lens Meniscus, D30-155mm,	
AL0126	110255AACBHE0126	RAYTOOLS Focus lens Biconvex, D30-190.5mm	
AL0127	110255AAFBHE0127	RAYTOOLS Focus lens Meniscus, D30-190.5mm	



Raytools OEM ORIGINAL LENS



LENS			
ESSE A PN	RAYTOOLS PN	DESCRIPTION	Raytools Head Model WHERE USED
AL0181	110255AAFBHP0181 - 3250010343	RAYTOOLS Collimation lens Meniscus, D37-EFL100 Fused Silica 1064nm	USED ON OLD MODEL OF HEADS BM114/BM114S (BMH114S01A/B, BMH114S02A/B)
AL0180	110255AACBHP0180 - 3250010346	RAYTOOLS Collimation lens Biconvex, D37-EFL100 Fused Silica 1064nm	
AL0182	110255AACBHP0182 - 3250010347	RAYTOOLS Focus lens Biconvex, D37-EFL150 Fused Silica 1064nm	
AL0183	110255AAFBHP0183 - 3250010344	RAYTOOLS Focus lens Meniscus, D37-EFL150 Fused Silica 1064nm	
AL0082	110255AACBDG0082 - 3250010348	RAYTOOLS Focus lens Biconvex, D38.1-BFL200 Fused Silica 1064nm	
AL0083	110255AAFBDG0083 - 3250010345	RAYTOOLS Focus lens Meniscus, D38.1-BFL200 Fused Silica 1064nm	
AL0323	3250010323	RAYTOOLS Collimation lens Collimation Lens Meniscus, D37-F100mm, Fused Silica 1064nm	USED ON NEW MODEL OF HEADS BM114S/BM114E (BMH114S22A, BMH114S23A,BMH114E01A,BMH11 4E02A)
AL0322	3250010322	RAYTOOLS Collimation lens Collimation Len Biconvex, D37-F100mm, Fused Silica 1064nm	
AL0324	3250010324	RAYTOOLS Focus lens Biconvex, D37-F150mm, Fused Silica 1064nm	
AL0325	3250010325	RAYTOOLS Focus lens Meniscus, D37-F150mm, Fused Silica 1064nm	
AL0326	3250010326	RAYTOOLS Focus lens Biconvex, D37-F200mm, Fused Silica 1064nm	
AL0327	3250010327	RAYTOOLS Focus lens Meniscus, D37-F200mm, Fused Silica 1064nm	
AL0286	3250010286	RAYTOOLS Collimation Len aspherical FOR BM115, D37-F100mm, Fused Silica 1064nm	USED ON BM115/BM115E (BM11510111,BM11510121,BMH11 5E01A,BMH115E02A)
AL0287	3250010287	RAYTOOLS Focus lens Biconvex, FOR BM115 D37-F150mm, Fused Silica 1064nm	
AL0288	3250010288	RAYTOOLS Focus lens Meniscus, FOR BM115 D37-F150mm, Fused Silica 1064nm	
AL0289	3250010289	RAYTOOLS Focus lens Biconvex, FOR BM115 D37-F200mm, Fused Silica 1064nm	
AL0290	3250010290	RAYTOOLS Focus lens Meniscus, FOR BM115 D37-F200mm, Fused Silica 1064nm	



Raytools OEM Original Lens assembly kit

Include support 1 meniscus + 1 biconvex



LENS ASSEMBLY KIT - Include support + 1 Lens meniscus + 1 Lens biconvex			
ESSE A PN	RAYTOOLS PN	DESCRIPTION	Raytools Head Model WHERE USED
AL621A	120A60021A	RAYTOOLS Collimation lens assembly D30 FL100mm Include: support + 1 lens Biconvex 110255AAEBHE0096 + 1 lens meniscus 110255AACBHE0095	USED ON HEADS BT240S 2KW
AL623A	120A60023A	RAYTOOLS Focus lens assembly D30 FL125mm Include: support + 1 lens Biconvex 110255AACBHE0097 + 1 lens meniscus 110255AAEBHE0098	
ALH06A	120AH0600A	RAYTOOLS Collimation lens assembly D28 FL100mm Include: support + 1 lens Biconvex 110255AAFBHD0020 + 1 lens meniscus 110255AACBHD0019	USED ON HEADS BM109
ALH07A	120AH0700A	RAYTOOLS Focus lens assembly D28 FL125mm Include: support + 1 lens Biconvex 110255AACBHD0022 + 1 lens meniscus 110255AACBHD0021	
ALG06A	120AG0600A	RAYTOOLS Collimation lens assembly D30 FL100mm Include: support + 1 lens Biconvex 110255AAFBHE0090 + 1 lens meniscus 110255AAFBHE0089	USED ON HEADS BT240/BT240S 3.3KW and BM111/BM111E
ALG07A	120AG0700A	RAYTOOLS Focus lens assembly D30 FL125mm Include: support + 1 lens Biconvex 110255AACBHE0092 + 1 lens meniscus 110255AACBHE0091	
ALG08A	120AG0800A	RAYTOOLS Focus lens assembly D30 FL155mm Include: support + 1 lens Biconvex 110255AACBHE0093 + 1 lens meniscus 110255AACBHE0094	
AL327A	120A32700A	RAYTOOLS Collimation lens assembly D37 FL100mm Include: support + 1 lens Biconvex 3250010346 + 1 lens meniscus 3250010343	USED ON OLD MODEL OF HEADS BM114/BM114S (BMH114S01A/B, BMH114S02A/B)
AL307A	120A30700A	RAYTOOLS Focus lens assembly D37 FL150mm Include: support + 1 lens Biconvex 3250010347 + 1 lens meniscus 3250010344	
AL308A	120A30800A	RAYTOOLS Focus lens assembly D38.1 FLL200mm Include: support + 1 lens Biconvex 3250010348 + 1 lens meniscus 3250010345	



Raytools OEM Original Lens assembly kit

Include support 1 meniscus + 1 biconvex



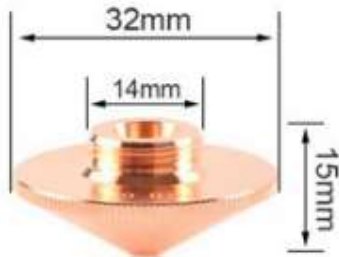
LENS ASSEMBLY KIT - Include support + 1 Lens meniscus + 1 Lens biconvex			
ESSE A PN	RAYTOOLS PN	DESCRIPTION	Raytools Head Model WHERE USED
ALH01A	120BH1001A	RAYTOOLS Collimation Lens assembly D37-F100mm, Fused Silica 1064nm Include: support + 1 lens Biconvex 3250010323 + 1 lens meniscus 3250010322	USED ON NEW MODEL OF HEADS BM114S/BM114E (BMH114S22A, BMH114S23A, BMH114E01A, BMH114E02A)
ALH02A	120BH1002A	RAYTOOLS Focus lens assembly D37-F150mm, Fused Silica 1064nm Include: support + 1 lens Biconvex 3250010324 + lens meniscus 3250010325	
ALH03A	120BH1003A	RAYTOOLS Focus lens assembly D37-F200mm, Fused Silica 1064nm Include: support + 1 lens Biconvex 3250010326 + lens meniscus 3250010327	
AL700A	120AU4700A	RAYTOOLS Collimation Lens assembly FOR BM115 D37-F100mm, Fused Silica 1064nm Include: support + 1 lens aspherical 3250010286	USED ON BM115/BM115E (BM11510111, BM11510121, BMH115E01A, B MH115E02A)
AL500A	120AU4500A	RAYTOOLS Focus lens assembly FOR BM115 D37-F150mm, Fused Silica 1064nm Include: support + 1 lens Biconvex 3250010287 + 1 lens meniscus 3250010288	
ALA00A	120AU4600A	RAYTOOLS Focus lens assembly FOR BM115 D37-F200mm, Fused Silica 1064nm Include: support + 1 lens Biconvex 3250010289 + 1 lens meniscus 3250010290	



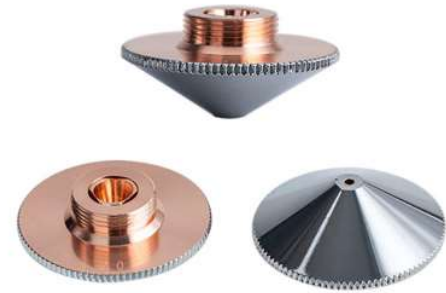
Raytools OEM Original Original Ceramic Nozzle Holders M14 and M11



CERAMIC NOZZLE HOLDERS M14 AND M11			
ESSE A PN	RAYTOOLS PN	DESCRIPTION	Raytools Head Model WHERE USED
AL581	120274100B	RAYTOOLS M14 CERAMIC NOZZLE HOLDER	USED ON HEADS BT240/BT240S/BM109/BM111/BM114/BM114S
AL199A	120515099A	RAYTOOLS M11 CERAMIC NOZZLE HOLDER	USED ON HEAD BM114E/BM115/BM116/BS12K



Raytools OEM Original Nozzles M14



NOZZLES M14 SINGLE AND DOUBLE LAYER			
ESSE A PN	RAYTOOLS PN	DESCRIPTION	Raytools Head Model WHERE USED
L0510	120GJT0510	RAYTOOLS M14 CONICAL SINGLE NOZZLE D. 1,0mm	USED ON HEADS BT240/BT240S/BM109/BM111/BM114/BM114S
L0512	120GJT0512	RAYTOOLS M14 CONICAL SINGLE NOZZLE D. 1,2mm	
L0515	120GJT0515	RAYTOOLS M14 CONICAL SINGLE NOZZLE D. 1,5mm	
L0520	120GJT0520	RAYTOOLS M14 CONICAL SINGLE NOZZLE D. 2,0mm	
L0525	120GJT0525	RAYTOOLS M14 CONICAL SINGLE NOZZLE D. 2,5mm	
L0530	120GJT0530	RAYTOOLS M14 CONICAL SINGLE NOZZLE D. 3,0mm	
L0535	120GJT0535	RAYTOOLS M14 CONICAL SINGLE NOZZLE D. 3,5mm	
L0540	120GJT0540	RAYTOOLSM14 CONICAL SINGLE NOZZLE D. 4,0mm	
L0545	120GJT0545	RAYTOOLS M14 CONICAL SINGLE NOZZLE D. 4,5mm	
L0550	120GJT0550	RAYTOOLS M14 CONICAL SINGLE NOZZLE D. 5,0mm	
L0610	120GJT0610	RAYTOOLS M14 CONICAL DOUBLE NOZZLE D. 1,0mm CHROME PLATED	
L0612	120GJT0612	RAYTOOLS M14 CONICAL DOUBLE NOZZLE D. 1,2mm CHROME PLATED	
L0615	120GJT0615	RAYTOOLS M14 CONICAL DOUBLE NOZZLE D. 1,5mm CHROME PLATED	
L0620	120GJT0620	RAYTOOLS M14 CONICAL DOUBLE NOZZLE D. 2,0mm CHROME PLATED	
L0625	120GJT0625	RAYTOOLS M14 CONICAL DOUBLE NOZZLE D. 2,5mm CHROME PLATED	
L0630	120GJT0630	RAYTOOLS M14 CONICAL DOUBLE NOZZLE D. 3,0mm CHROME PLATED	
L0635	120GJT0635	RAYTOOLS M14 CONICAL DOUBLE NOZZLE D. 3,5mm CHROME PLATED	
L0640	120GJT0640	RAYTOOLS M14 CONICAL DOUBLE NOZZLE D. 4,0mm CHROME PLATED	
L0645	120GJT0645	RAYTOOLS M14 CONICAL DOUBLE NOZZLE D. 4,5mm CHROME PLATED	
L0650	120GJT0650	RAYTOOLS M14 CONICAL DOUBLE NOZZLE D. 5,0mm CHROME PLATED	



Raytools OEM lower head parts kit (TRA) capacity sensor head



Raytools OEM lower head parts kit (TRA) capacity sensor head			
ESSE A PN	RAYTOOLS PN	DESCRIPTION	Raytools Head Model WHERE USED
AL610A	120A61000A	RAYTOOLS TRA CAPACITY HEAD SENSOR FOR BT240S HEAD	USED ON HEADS BT240S
ALH13A	120AH1300A	RAYTOOLS TRA CAPACITY HEAD SENSOR FOR BM109 HEAD	USED ON HEADS BM109
ALG17A	120AG1700A	RAYTOOLS TRA CAPACITY HEAD SENSOR FOR BM111 HEAD	USED ON HEADS BM111
AL320A	120A32000A	RAYTOOLS TRA CAPACITY HEAD SENSOR FOR BM114 AND BM114S HEAD	USED ON HEADS BM114/BM114S
AL300A	120AU2300A	RAYTOOLS TRA CAPACITY HEAD SENSOR FOR BM115 HEAD	USED ON BM115
AL100B	120800100B	RAYTOOLS TRA CAPACITY HEAD SENSOR FOR BM109TC, BM11TC BM114TC HEAD	USED ON 3D (TUBE CUTTING) HEADS BM109TC/BM111TC/BM114TC
AL000B	120050100B	RAYTOOLS TRA CAPACITY HEAD SENSOR FOR GF101 HEAD	USED ON ROBOT CUTTING 3D HEAD GF101



Raytools OEM Lens Change Tools



LENS CHANGE TOOLS			
ESSE A PN	RAYTOOLS PN	DESCRIPTION	Raytools Head Model WHERE USED
AL600A	120A60007A	RAYTOOLS Tool for lens change on BT240S head	USED ON HEADS BT240S
ALH00A	120AH0006A	RAYTOOLS Tool for lens change on BM109 head	USED ON HEADS BM109
ALG05A	120AG0524A	RAYTOOLS Tool for lens change on BM111 head	USED ON HEADS BM111
AL300B	120A30002B	RAYTOOLS Tool for lens change on BM1114 AND BM114S head	USED ON HEADS BM114/BM114S
ALU01A	120AU2901A	RAYTOOLS Tool to change lens on Head BM115	USED ON HEAD BM115



Raytools OEM Protective Window Seal Rings



SEAL RINGS			
ESSE A PN	RAYTOOLS PN	DESCRIPTION	Raytools Head Model WHERE USED
AL0051	11021M2110051	RAYTOOLS Seal ring 29.2x21x3.55mm for glass 211LCG0020 (PW0022II)	USED ON HEADS BT210/BT210S/BT220RC/BT240S/BM109/BM111
AL0007	11021M2110007	RAYTOOLS Seal ring 32.2x24x3.55mm for glass 211LCG0037 (PW0023II)	USED ON HEADS BT210/BT210S/BT220RC/BT240/BT240S/BM109/BM111
AL0005	11021M2110005	RAYTOOLS Seal ring 42.5x4x3.2mm for glass 110255IAG0004 and 211LCG0078 (PW0027II and PW0028II)	USED ON HEADS BM114/BM114S/BM115



Raytools OEM Locking Nuts



LOCKING NUTS			
ESSE A PN	RAYTOOLS PN	DESCRIPTION	Raytools Head Model WHERE USED
AL005C	120A61005C	RAYTOOLS LOCKING NUT FOR BT240S	USED ON BT240S
AL001G	120301001G	RAYTOOLS LOCKING NUT FOR BM109	USED ON BM109
AL336A	120610336A	RAYTOOLS LOCKING NUT FOR BM111 AND BM114S	USED ON BM111 AND BM114S
AL004B	120572004B	RAYTOOLS LOCKING NUT FOR 3D CUTTING BM109TC/BM111TC/BM114TC/GF101	USED ON 3D CUTTING BM109TC/BM111TC/BM114TC/GF101
AL509A	120AU0509A	RAYTOOLS LOCKING NUT FOR BM115	USED ON BM115



Raytools OEM Ceramic Nozzle Holder and Nozzles For Tube Cutting M8

NOZZLES M8 SINGLE AND DOUBLE LAYER For Tube Cutting			
ESSE A PN	RAYTOOLS PN	DESCRIPTION	Raytools Head Model WHERE USED
AL008B	120572008B	RAYTOOLS M8 3D CERAMIC	USED ON 3D (TUBE CUTTING) HEADS BT210SRC/BT220RC/BM109TC/BM111TC/BM114TC/GF101
L0910	120GJT0910	RAYTOOLS M8 3D SINGLE NOZZLE D. 1,0mm	
L0912	120GJT0912	RAYTOOLS M8 3D SINGLE NOZZLE D. 1,2mm	
L0915	120GJT0915	RAYTOOLS M8 3D SINGLE NOZZLE D. 1,5mm	
L0920	120GJT0920	RAYTOOLS M8 3D SINGLE NOZZLE D. 2,0mm	
L0925	120GJT0925	RAYTOOLS M8 3D SINGLE NOZZLE D. 2,5mm	
L0930	120GJT0930	RAYTOOLS M8 3D SINGLE NOZZLE D. 3,0mm	
L0935	120GJT0935	RAYTOOLS M8 3D SINGLE NOZZLE D. 3,5mm	
L0940	120GJT0940	RAYTOOLS M8 3D SINGLE NOZZLE D. 4,0mm	
L0208	120GJT0208	RAYTOOLS M8 3D DOUBLE NOZZLE D. 0,80mm CHROME PLATED	
L0210	120GJT0210	RAYTOOLS M8 3D DOUBLE NOZZLE D. 1,0mm CHROME PLATED	
L0212	120GJT0212	RAYTOOLS M8 3D DOUBLE NOZZLE D. 1,2mm CHROME PLATED	
L0215	120GJT0215	RAYTOOLS M8 3D DOUBLE NOZZLE D. 1,5mm CHROME PLATED	
L0220	120GJT0220	RAYTOOLS M8 3D DOUBLE NOZZLE D. 2,0mm CHROME PLATED	
L0225	120GJT0225	RAYTOOLS M8 3D DOUBLE NOZZLE D. 2,5mm CHROME PLATED	
L0230	120GJT0230	RAYTOOLS M8 3D DOUBLE NOZZLE D. 3,0mm CHROME PLATED	
L0235	120GJT0235	RAYTOOLS M8 3D DOUBLE NOZZLE D. 3,5mm CHROME PLATED	
L0240	120GJT0240	RAYTOOLS M8 3D DOUBLE NOZZLE D. 4,0mm CHROME PLATED	



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