



Riselaser

深圳市华升激光科技有限公司

SHENZHEN RISELASER TECHNOLOGY CO., LTD

## Optical glass F-theta Field Lens Laser Lens



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### Product description

F-Theta lens, also known as scanning lens, is used to form a uniform laser beam spot in a certain marking area. It is one of the most important accessories of laser marking machine.

The main indicators of the scanning lens are the scanning range and focal length. Generally, the longer the focal length, the larger the scanning field and the larger the diameter of the focal spot. This means that when the scanning area is large to a certain extent, the spot is not fine enough, and the laser power density will be insufficient.



Distortion is less than 0.20%



Larger scanning angle



Various models to choose from

### Application

Fiber laser machine;

YAG laser machine;

**NOTICE:** Please refer to the following parameter table to ensure that it matches your laser machine.

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### Parameters

Item Model	EFL(mm)	Work Distance(mm)	ΦIn Light(mm)	Scan Angle	Scan Field(mm)	Φ Spot Size(μm)	Lens diameter (mm)	Thread(mm)
F-63-1064	63	61.80	12	±22°	φ50(35×35)	10	90	M85×1
F-80-10LNS-1064	80	83.27	10	±22°	φ70(50×50)	15	90	M85×1
F-80-20LNS-1064	80	77.85	20	±25°	φ70(50×50)	7.7	105	M85×1
F-100M-1064	100	113.85	8	±28°	φ100(70×70)	24.3	60	M85×1
F-100-10LNS-1064	100	118.49	12	±28°	φ100(70×70)	16.2	90	M85×1
F-100R-1064	100	105.75	12	±28°	φ100(70×70)	16	90	M85×1
F-100-20-1064	100	104.85	20	±22°	φ100(70×70)	9.76	105	M85×1
F-100D-1064	100	103.37	20	±25°	φ87(62×62)	9.8	105	M85×1
F-120-30-1064	120	127.60	30	±25°	φ105(80×74)	15	140	M112×1; M102×1; M95×1
F-130-1064	130	141.96	12	±25°	φ120(85×85)	21.1	90	M85×1
F-160M-1064	160	178.66	8	±17.7°	φ100(71×71)	38.85	47	M39×1; M55×1
F-160-12LNS-1064	160	181.29	12	±28°	φ155(110×110)	25.9	90	M85×1
F-160R-1064	160	176.26	12	±28°	φ155(110×110)	25.9	90	M85×1
F-160H-20LNS-1064	160	180.72	20	±28°	φ142(101×101)	15.86	120	M85×1
F-163B-1064	163	186.45	12	±28°	φ162(113.3×113.3)	26.6	90	M85×1
F-163R-1064	163	181.86	10	±31.7°	φ169(120×120)	31.7	90	M85×1
F-163C-1064	163	182.15	20	±28°	φ160(113×113)	15.9	115	M85×1
F-168-36-1064	168	181.12	36	±25°	φ146(99.5×99.5)	9.1	163	M112×1
F-170-30-1064	170	198.31	30	±25°	φ150(110×110)	11.03	140	M112×1; M102×1; M95×1
F-173B-1064	173	197.51	12	±28°	φ170(120×120)	28	90	M85×1
F-188-1064	188	212.00	12	±28°	φ185(130×130)	30	90	M85×1
F-210A-1064	210	231.88	12	±28°	φ212(150×150)	34	90	M85×1
F-210B-1064	210	225.80	12	±28°	φ205(145×145)	25	90	M85×1
F-210-30-1064	210	240.42	30	±25°	φ185(140×130)	13.63	140	M112×1; M102×1; M95×1
F-220-10LNS-1064	220	259.78	15	±28°	φ216(153×153)	29	90	M55×1; M85×1
F-220-20LNS-1064	220	241.55	20	±28°	φ212(150×150)	21.4	120	M85×1
F-254M-1064	254	299.42	8	±28°	φ254(180×180)	60	39	M39×1; M55×1
F-254B-1064	254	277.70	14	±28°	φ245(175×175)	35.3	90	M85×1
F-254-10LNS-1064	254	281.14	16	±28°	φ245(175×175)	30	105	M85×1
F-254-20LNS-1064	254	271.94	20	±25°	φ245(175×175)	24.8	120	M85×1
F-254-30-1064	254	284.58	30	±25°	φ222(175×155)	20	140	M112×1; M102×1; M95×1
F-255-8.5B-1064	255	292.94	15	±30.2°	φ268(190×190)	33.1	99.5	M85×1
F-260-1004	260	287.54	12	±28°	φ255(180×180)	42.5	90	M85×1
F-290-1004	290	348.52	12	±28°	φ283(210×210)	47	90	M85×1
F-300D-1064	300	360.86	10-14	±28°	φ295(208×208)	35	90	M85×1
F-330-1064	330	383.93	12	±28°	φ325(230×230)	53	90	M85×1
F-330C-1004	330	387.61	16	±28°	φ325(230×230)	40	120	M85×1
F-330-30-1064	330	376.42	30	±28°	φ325(230×230)	21.2	140	M112×1; M102×1; M95×1
F-350C-1064	350	417.81	20	±28°	φ345(244×244)	34	120	M85×1
F-420-10LNS-1064	420	481.32	10	±28°	φ419(296×296)	82	90	M85×1
F-420B-1064	420	486.08	20	±28°	φ410(290×290)	40.8	120	M85×1
F-420-30-1064	420	491.03	30	±28°	φ410(290×290)	27.3	140	M112×1; M132×1
F-430B-1064	430	497.77	20	±28°	φ425(300×300)	41.9	120	M85×1
F-515-1064	515	570.35	20	±31.5°	φ565(400×400)	50.1	120	M85×1
F-525-1064	525	604.73	20	±31.5°	φ568(402×402)	51.1	125	M85×1
F-580-1064	580	670.19	24	±28°	φ566(400×400)	47	125	M85×1
F-815-1064	815	899.83	24	±28°	φ800(565×565)	66	125	M85×1



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## Lens cleaning

### 1. For light pollution (dust, fiber particles) were flexible cleaning.

Using a blowing balloon, Blow off scattered contaminants on the surface of the optical element.



### 2. For light pollution (stains, fingerprints) were flexible cleaning.

Propanol, acetone glue with a cotton swab or alcohol to gently wipe the surface.

