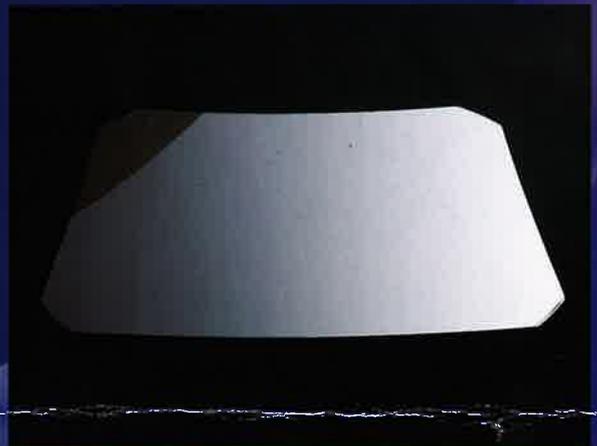


# Parabolic and Spherical Mirrors

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KOKUSAI KSP Parabolic Mirrors are designed and produced to convert scattered light into high quality parallel light. And even large size Parabolic Mirror, it supplies high light condensing efficiency. KOKUSAI SHOJI can design and deposit many types of reflection also transmission coating from the Deep UV range to the infrared range with high quality. KOKUSAI SHOJI can provide many sizes of KSS Spherical Mirrors as well. Over 4M dia -large size-Spherical Mirror can be designed and produced according to user's application.



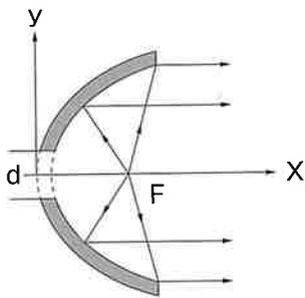
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USE for PWB,FPD,TP,CSP and Semiconductor Lithography ( Exposure) systems.  
Solar Simulator, Searchlight, Aerospace (Space Telescope) and More.

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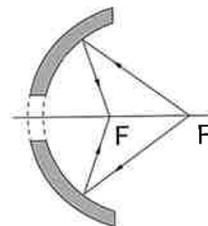
# Parabolic and Spherical Mirrors

## [Parabolic Mirrors]



F1 : First focus point  
 F2 : Second focus point  
 D : Outside diameter  
 H : Height (after cutting hole for lamp)  
 d : Hole for lamp  
 F1L : Distance from end surface to F1  
 F2L : Distance from end surface to F2

## [Spherical Mirrors]

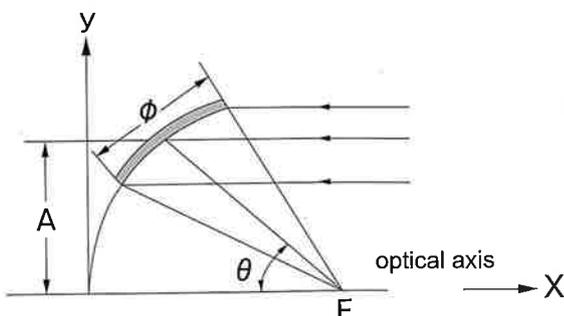


Parts number	Outside diameter	Inside diameter	F	Height	Hole diameter
KSP-100-12.5	100	(96)	12.5	(46)	18
KSP-100-19	100	(96)	19	(32)	30
KSP-152-17	152	(143)	17	(77)	30
KSP-152-30	152	(143)	30	(45)	35
KSP-220-100	220	(210)	100	(33)	—
KSP-300-42	300	(290)	42	(130)	—
KSP-500-80	498	(488)	80	(188)	153

Parts number	Outside diameter	F	Radius
KSS-100-200	100	100	200
KSS-300-700	300	350	700
KSS-600-1600	600	800	1600
KSS-1000-3100	1000	1550	3100
KSS-1200-2800	1200	1400	2800
KSS-1600-4700	1600	2350	4700
KSS-2000-8000	2000	4000	8000
KSS-2800-10000	2800	5000	10000

※ AL,CM,UV and more type of coating are available. Maximum size of Spherical mirrors : Diameter 3000mm  
 Please feel free to ask anything.

## [Off-axis parabolic Mirrors]



A : Axis displacement	10 mm ~
φ : Diameter	30 ~ 100 φ
θ : Off axis angle	7 ~ 45
F : Focus point	10 ~ 300mm
Deposition	Various

# Elliptical Reflectors

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KOKUSAI KSE Elliptical Reflectors are designed and produced with high performance and can focus luminous flux efficiently of Xenon short arc, Super high pressure UV lamps and so on. KOKUSAI SHOJI can design and deposit many types of reflection also transmission coating from the Deep UV range to the infrared range with high quality. In addition, we design and produce water-cooled Metal Reflectors as well.

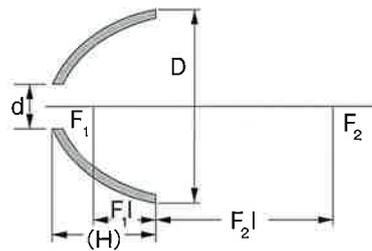
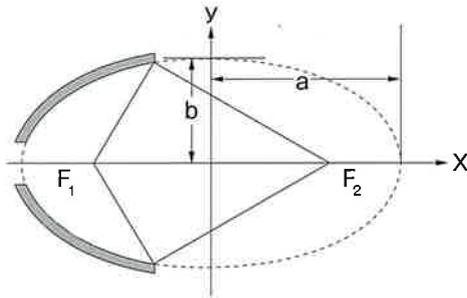


USE for PWB,FPD,TP,CSP and Semiconductor Lithography ( Exposure) systems.  
Solar Simulator, Fiber lighting unit, Various projectors and More.

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# Elliptical Reflectors

## [Elliptical Reflectors]

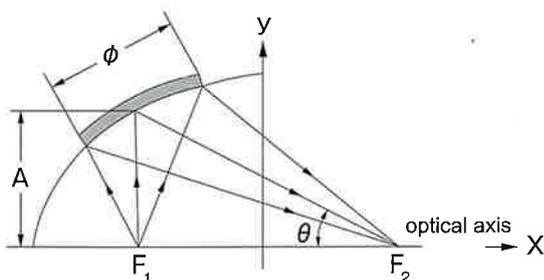


- F1 : First focus point
- F2 : Second focus point
- D : Outside diameter
- H : Height (after cutting hole for lamp)
- d : Hole for lamp
- F1L : Distance from end surface to F1
- F2L : Distance from end surface to F2

Parts number	Outside diameter	Inside diameter	F <sub>1</sub>	F <sub>2</sub>	Height (H)	Hole diameter	F <sub>1</sub> L	F <sub>2</sub> L
KSE-64-11-78	64	(60)	11	78	(44)	18	31	36
KSE-88-14-134	86	(81)	14	134	(46)	20	32	88
KSE-105-22-145	105	(99)	22	145	(44)	27	20	103
KSE-106-18-234	106	(100)	18	234	(44)	32	28	188
KSE-115-17-272	113	(109)	17	272	(54)	27	36	219
KSE-128-18-288	128	(122)	18	288	(67)	31	50	220
KSE-148-28-252	148	(141)	28	252	(63)	30	35	189
KSE-150-22.5-360	150	(141)	22.5	360	(70)	40	48	290
KSE-180-30-280	180	(170)	30	280	(104)	40	76	174
KSE-220-40-440	220	(210)	40	440	(91)	60	53	347
KSE-300-50-800	300	(290)	50	800	(130)	80	82	668
KSE-352-56-804	352	(344)	56	804	(175)	90	125	623
KSE-362-60.5-873	362	(355)	60.5	873	(164)	90	108.5	704
KSE-450-75-900	448	(435)	75	900	(215)	100	153	672
KSE-600-100-2000	600	(588)	100	2000	(255)	130	158	1742

※ AL,CM,UV and more type of coating are available.Glass substrate material Soda lime or Tempax.  
Please feel free to ask anything.

## [Off-axis elliptical Mirrors]



A : Axis displacement	10mm ~
φ : Diameter	30 ~ 100 φ
θ : Off axis angle	7 ~ 45
F : Focus point	12 ~ 300mm
<b>Deposition</b>	Various