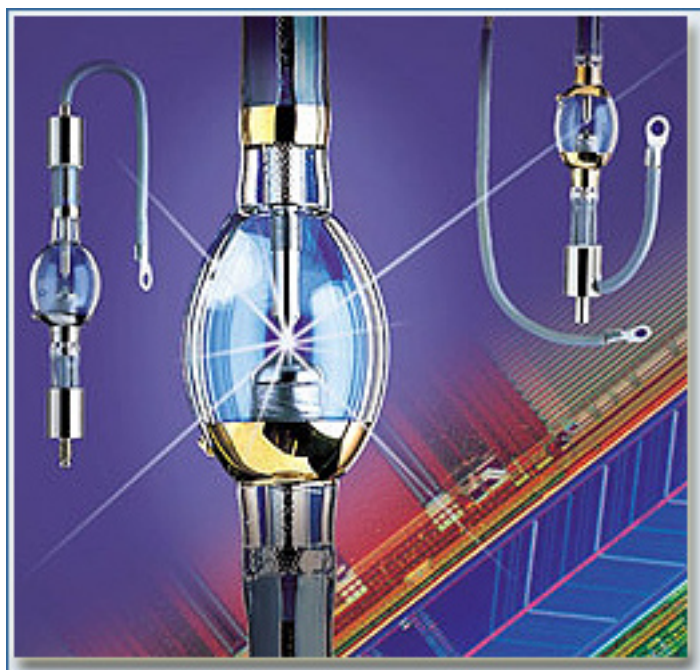




## Mercury Lamps - HBO Mercury Short-Arc Lamps from Osram



HBO mercury lamps are short arc lamps in which the luminous arc burns in an atmosphere of mercury vapor at high pressure. Their main characteristics and benefits are:

- High radiance
- Multiline spectrum
- High radiant power in the UV and the visible range
- AC and/or DC operation

HBO mercury lamps are available in wattages ranging from 50 to 3400 watts. Lamps rated at less than 200 watts are predominantly used in scientific and technical applications such as:

- Fluorescence microscopy
- Fluorescence endoscopy
- Optical waveguide applications
- Schlieren photography
- Hologram projection
- UV curing

Lamps rated at 350 watts and above are used almost exclusively for the fabrication of electronic chips in microlithography. Special applications for which lamps of any wattage can be used are laser simulation and effect light projection in the entertainment industry. We have compiled a list of a considerable number of different instruments. It will give you an overview of which lamp best suits which instrument.

### MANUFACTURER SAFETY INSTRUCTIONS

Because of their high luminance, UV radiation and internal pressure in both the hot and cold state, HBO lamps may only be operated in enclosed lamp casings specially constructed for the purpose. Always use the protective jackets supplied when handling HBO lamps. When handling the lamps without their protective jackets, always wear safety goggles, a face mask and gauntlets with wrist protectors.

In case of a lamp burst, mercury will be emitted.

### ORDER INFORMATION

Type	AC/DC	W	V	A	lm	lm/W	cd	cd/cm <sup>2</sup>	t (h)	Ø (mm)	l (mm)
HBO 50 W/3	DC	50	23	2.2	1300	26	150	90000	200	9.5	53
HBO 50 W/AC L1	AC	50	39...45	1.3	2000	40	230	30000	100	9.5	53
HBO 50 W/AC L2	AC	50	34...39	1.45	2000	40	230	30000	100	9.5	53
HBO 100 W/2	DC	100	20.5	5	2200	22	260	170000	200	10	90
HBO 103 W/2*	DC	100	22.5	4.4	3000	30	300	170000	300	10	90
HBO R 103 W/45	DC	100	22.5	4.4	-	-	-	-	300	67	81.5
HBO 200 W L1	AC	200	57	3.5							
HBO 200 W/2 L1***	AC	200	57...65	3.6	10000	50	1000	40000	400/200	17	128
HBO 200 W/2 L2***	AC	200	49...57	4.2	10000	50	1000	40000	400/200	17	128
HBO 200 W/DC	DC	200	57	3.5	10000	50	1100	40000	1000	17	128
HBO 200 W/4****	AC	200	55...67	3.6	9500	47.5	950	33000	200	17	128
HBO 201 W/HS-D2		200	25	8							
HBO 202 W/4		200									
HBO 250 W/HS		250									
HBO 250 W/BY	DC	250	40	6.5					2000/-	20	152
HBO 350 W	DC	350**	67.5	5.3					600/-	20	128
HBO 350 W/S	DC	350	68	5.15					600/-	20	127
HBO 500 W/A	DC	500	60	8.3					800/-	29	190
HBO 500 W/B	DC	500	48.5	10.3					800/-	29	180
HBO 1000 W/D	DC	1000	37.7	26.5					1000/-	40	240
HBO 1500 W/CIEL	DC	1500	23	65							



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### ORDER INFORMATION (continued)

Type	AC/DC	W	V	A	lm	lm/W	cd	cd/cm <sup>2</sup>	t (h)	Ø (mm)	l (mm)
HBO 1500 W/CIL	DC	1500	23	65.2					1500/-	50	262
HBO 2000 W/NIL	DC	1750	26	67					1500/-	55	251
HBO 2001 W/NIEL	DC	1750	26	67							
HBO 2001 W/NIL	DC	1750	26	67					1500/-	52	251
HBO 2501 W/NIL	DC	2500	23	109					1500/-	70	367
HBO 3500 W/PI	DC	3400	23	148					850/-	77	360

t(h) = typical life (vertical/horizontal)

\* lamp optimized for fluorescence microscopy

\*\* suitable for pulse operation between 250 W and 500 W

\*\*\* can be operated on AC or DC

Current prices at: [www.msscientific.de/shortarclamps\\_pdfpricelist.pdf](http://www.msscientific.de/shortarclamps_pdfpricelist.pdf).