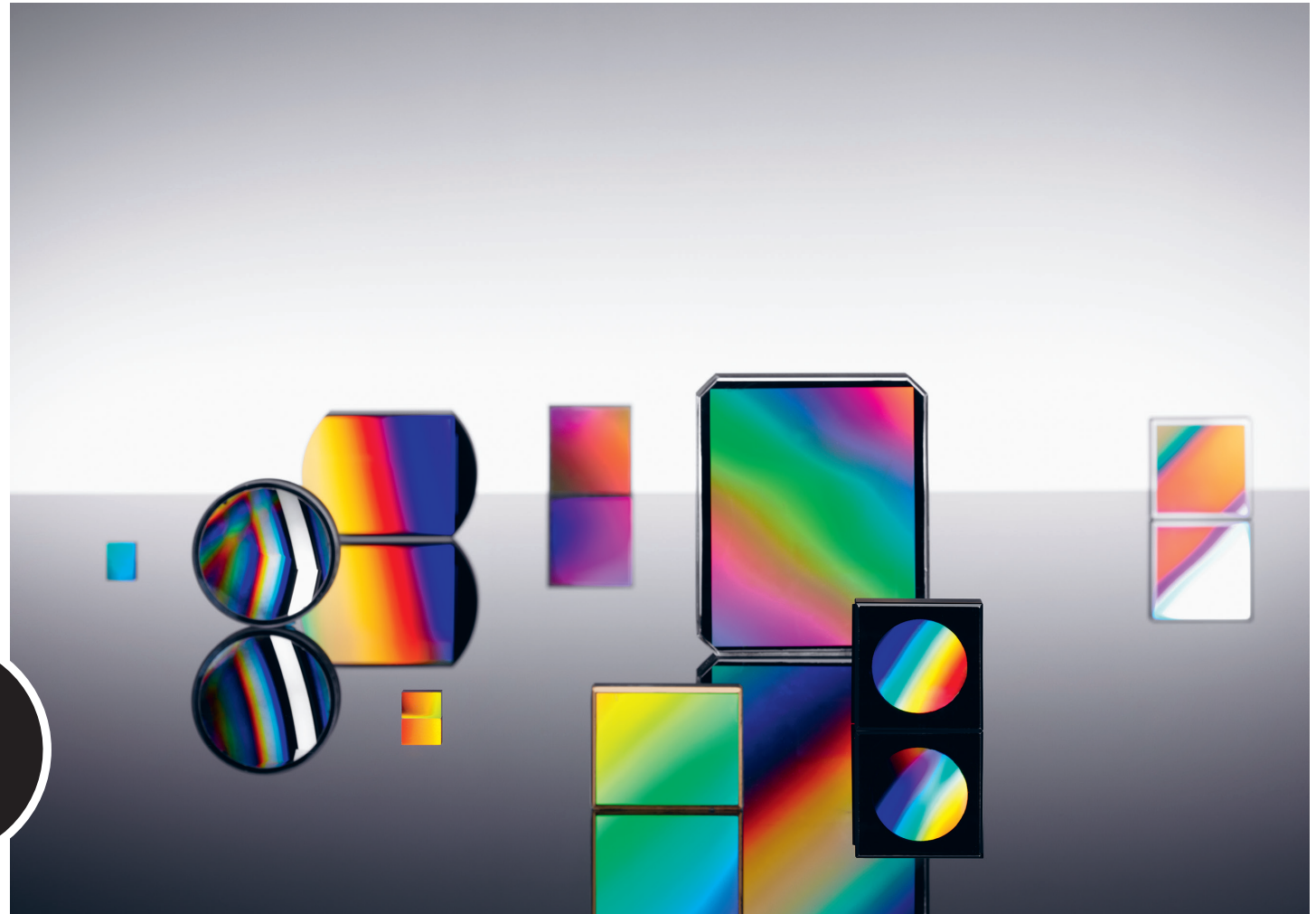


Product line
Optical gratings

Valid since January 2020



Carl Zeiss Spectroscopy GmbH



Seeing beyond

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Table of Content

Plane gratings — 3

Plane reflection gratings – Holographic blaze 3

Plane reflection gratings – Holographic sine 4

Plane reflection gratings – Mechanically ruled 5

Laser gratings — 7

Transmission gratings 7

Reflection gratings 7

Rowland circle gratings — 8

Mono- and polychromator gratings — 9

Customized gratings — 11

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Plane gratings

Plane reflection gratings – Holographic blaze

Groove Density [l/mm]	Nominal Blaze Wavelength [nm]	Max. Grating Area [mm ²]	Cat. No.
3600	230	90 x 80	263232xx90224
2604	230	70 x 70	263232xx90524
2400	230	65 x 60	263232xx90824
2100	230	65 x 60	263232xx91024
1800	230	68 x 68	263232xx91324
1440	230	65 x 65	263232xx91624
1400	230	75 x 70	263232xx91924
1302	230	65 x 65	263232xx92324
1200	230	80 x 80	263232xx92824
300	230	65 x 65	263232xx94924



Key

- “xx” defines substrate format
- “23” (at the end) transmission grating (available upon request)
- “24” (at the end) aluminum coating
- “25” (at the end) gold coating (available upon request)

Dimensions [mm ³]	Code (xx)
15 x 10 x 6	90
19 x 19 x 6	58
30 x 30 x 8	81
40 x 40 x 10	62
50 x 50 x 10	89
60 x 15 x 10	65
60 x 60 x 10	83
70 x 70 x 12	70
75 x 75 x 16	84
90 x 20 x 20	66
90 x 90 x 16	85
120 x 100 x 20	55
dia. 30 x 8	50
dia. 50 x 10	60

– Other sizes upon request –

Plane reflection gratings – Holographic sine

Groove Density [1/mm]	Nominal Blaze Wavelength [nm]	Max. Grating Area [mm ²]	Cat. No.
3000	UV	90 x 75	263232xx48724
2400	UV-VIS	70 x 70	263232xx50824
2100	VIS-NIR	65 x 60	263232xx51024
1800	VIS-NIR	75 x 70	263232xx51324
1500	VIS-NIR	65 x 60	263232xx51624
1400	VIS-NIR	75 x 75	263232xx51824
1200	VIS-NIR	75 x 75	263232xx52824
1000	VIS-NIR	50 x 55	263232xx53024
750	NIR	70 x 55	263232xx52224

**Key**

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- “23” (at the end) transmission grating (available upon request)
- “24” (at the end) aluminum coating
- “25” (at the end) gold coating (available upon request)

Dimensions [mm ³]	Code (xx)
15 x 10 x 6	90
19 x 19 x 6	58
30 x 30 x 8	81
40 x 40 x 10	62
50 x 50 x 10	89
60 x 15 x 10	65
60 x 60 x 10	83
70 x 70 x 12	70
75 x 75 x 16	84
90 x 20 x 20	66
90 x 90 x 16	85
120 x 100 x 20	55
dia. 30 x 8	50
dia. 50 x 10	60

– Other sizes upon request –

Plane reflection gratings – Mechanically ruled

Groove Density [l/mm]	Nominal Blaze Wavelength [nm]	Max. Grating Area [mm ²]	Cat. No.
1302	230	50 x 50	263232xx62324
1302	300	65 x 60	263232xx62424
1302	400	68 x 64	263232xx62524
1302	475	68x64	263232xx62724
1302	500	68 x 64	263232xx62824
1302	550	100 x 80	263232xx62624
1302	700	68 x 64	263232xx62924
1200	250	60 x 60	263232xx12324
1200	300	80 x 80	263232xx12424
1200	400	50 x 60	263232xx12524
1200	500	65 x 64	263232xx12624
1200	700	65 x 64	263232xx12924
900	1000	68 x 63	263232xx12024
651	250	65 x 60	263232xx64224
651	300	75 x 75	263232xx63224
651	350	65 x 60	263232xx63124
651	425	100 x 80	263232xx63324
651	475	100 x 80	263232xx63424
651	550	65 x 60	263232xx63524
651	700	65 x 60	263232xx63624
651	750	65 x 60	263232xx63724
651	900	100 x 80	263232xx63824
651	1000	100 x 80	263232xx63924
651	1260	100 x 80	263232xx76724
651	1440	100 x 80	263232xx64124
651	1750	65 x 60	263232xx64424
610	1000	65 x 60	263232xx73924

Groove Density [l/mm]	Nominal Blaze Wavelength [nm]	Max. Grating Area [mm ²]	Cat. No.
600	250	65 x 60	263232xx14224
600	300	65 x 55	263232xx13224
600	350	65 x 55	263232xx13024
600	400	65 x 60	263232xx13131
600	500	65 x 60	263232xx13524
600	650	65 x 60	263232xx13324
600	775	65 x 60	263232xx13424
600	1000	65 x 60	263232xx13924
600	1100	65 x 60	263232xx13824
600	1250	65 x 60	263232xx14024
600	1300	65 x 60	263232xx13624
600	1500	65 x 60	263232xx14124
600	1700	65 x 60	263232xx13724
600	2300	70 x 50	263232xx14324
484	1250	65 x 60	263232xx61024
400	550	65 x 60	263232xx61524
325.5	300	70 x 65	263232xx65024
325.5	400	65 x 60	263232xx65224
325.5	480	65 x 50	263232xx65824
325.5	550	65 x 60	263232xx65124
325.5	700	100 x 80	263232xx65724
325.5	750	100 x 80	263232xx65924
325.5	950	65 x 60	263232xx65324
325.5	1500	65 x 60	263232xx65524
325.5	1750	65 x 60	263232xx65624
325.5	2000	65 x 60	263232xx65424
300	300	65 x 60	263232xx15024

Groove Density [l/mm]	Nominal Blaze Wavelength [nm]	Max. Grating Area [mm ²]	Cat. No.
300	500	65 x 55	263232xx15124
300	1300	65 x 55	263232xx14824
300	1800	65 x 60	263232xx15224
300	2850	65 x 60	263232xx15624
300	4700	70 x 55	263232xx15724
250	410	65 x 100	263232xx76224
217	4300	65 x 60	263232xx75124
175	8000	70 x 50	263232xx66024
162.75	200	50 x 50	263232xx76024
162.75	300	50 x 50	263232xx76124
162.75	400	65 x 60	263232xx66124
162.75	480	60 x 60	263232xx66324
162.75	4000	65 x 60	263232xx66424
162.75	4750	65 x 60	263232xx66524
150	500	65 x 60	263232xx16124
150	1200	65 x 60	263232xx16324
150	1270	65 x 60	263232xx16424
150	1870	65 x 60	263232xx16624
150	3750	65 x 60	263232xx16724
150	4000	65 x 60	263232xx16824
133	10200	65 x 60	263232xx66824
130.2	6000	65 x 60	263232xx66624
130.2	10200	65 x 60	263232xx66724
100	800	68 x 60	263232xx73724
90	9600	68 x 60	263232xx67124
81.38	8000	65 x 60	263232xx67424
75	8000	68 x 60	263232xx67824

Groove Density [l/mm]	Nominal Blaze Wavelength [nm]	Max. Grating Area [mm ²]	Cat. No.
75	10000	68 x 60	263232xx67924
75	12000	68 x 60	263232xx68024
60	8750	65 x 60	263232xx67324
54.25	1600	65 x 60	263232xx67524
54.25	13800	65 x 60	263232xx67724
53.9	6600	55 x 55	263232xx67624
50	1350 (1270)	65 x 60	263232xx68124
40.69	400	65 x 60	263232xx68224
40.69	500	65 x 60	263232xx68324
40.69	16000	65 x 60	263232xx68424
24.11	32200	65 x 64	263232xx69024
22.02	20000	65 x 64	263232xx69124



Key

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- “25” (at the end) gold coating (available upon request)

Dimensions [mm ³]	Code (xx)
15 x 10 x 6	90
19 x 19 x 6	58
30 x 30 x 8	81
40 x 40 x 10	62
50 x 50 x 10	89
60 x 15 x 10	65
60 x 60 x 10	83
70 x 70 x 12	70
75 x 75 x 16	84
90 x 20 x 20	66
90 x 90 x 16	85
120 x 100 x 20	55
dia. 30 x 8	50
dia. 50 x 10	60

- Other sizes upon request -

Laser gratings

Transmission gratings

Groove Density [1/mm]	Nominal Blaze Wavelength [nm]	Max. Grating Area [mm ²]	Cat. No.
1700	1064	upon request	
1480	1064	upon request	
1200	1064	upon request	

Reflection gratings

Groove Density [1/mm]	Nominal Blaze Wavelength [nm]	Substrate Size [mm ²] Grooves parallel to short side	Max. Grating Area [mm ²]	Cat. No.
1200	800	90 x 20 x 20	82 x 15	000000-2393-263
1200	1064	90 x 20 x 20	82 x 15	000000-2355-138
1200	1064	90 x 90 x 20	82 x 82	000000-2393-264
1480	800	90 x 20 x 20	82 x 15	000000-2393-319
1480	1064	90 x 20 x 20	82 x 15	000000-2355-126
1480	1064	90 x 90 x 20	82 x 82	000000-2393-267
1740	1064	90 x 20 x 20	82 x 15	263232-8099-935
1740	1064	90 x 90 x 20	82 x 82	000000-2393-320

Rowland circle gratings

Groove Density [l/mm]	Radius of Curvature [mm]	Grating Area [mm ²]	Nominal Blaze Wavelength [nm]	Cat. No.
3600	1000.1	∅ 63.5 x 12.0	220/240	792051-0000-000
3600	1000.1	∅ 63.5 x 12.0	225/170	792050-0000-000
2160	1000.1	∅ 63.5 x 12.0	200/180	792052-0000-000
1440	1000.1	∅ 63.5 x 12.0	600	792054-0000-000
3600	749.9	∅ 63.5 x 11.8	200/180	792034-0000-000
3600	749.9	∅ 63.5 x 11.8	250	792035-0000-000
3600	749.9	∅ 63.5 x 11.8	350/355	792036-0000-000
2400	749.9	∅ 63.5 x 11.8	180	792032-0000-000
2400	749.9	∅ 63.5 x 11.8	250	792033-0000-000
1800	749.9	∅ 63.5 x 11.8	400	792031-0000-000
1500	749.9	∅ 63.5 x 11.8	300	792029-0000-000
1200	749.9	∅ 63.5 x 11.8	800	792030-0000-000
3600	501.2	∅ 63.5 x 11.8	225	792040-0000-000
2700	501.2	∅ 40.0 x 12.2	220	792039-9901-000
1800	501.2	∅ 63.5 x 11.8	600	792045-0000-000
1400	501.2	∅ 40.0 x 12.2	650	792057-0000-000
3600	398.8	∅ 80.0 x 15.0	200/180	792048-0000-000
2400	398.8	∅ 50.0 x 9.3	200/180	792044-0000-000
2400	398.8	∅ 35.0 x 12.1	200/180	000000-1990-229
1800	398.8	∅ 50.0 x 9.3	525/505	792055-0000-000
3600	298.5	∅ 40.0 x 8.0	220	792104-0000-000
1200	202.4	64.0 x 64.0 x 8.0	225	792006-0000-000
3600	150.7	∅ 32.0 x 7.05	220/250	792061-0000-000

Mono- and polychromator gratings

Groove Density [1/mm]	Grating Profile	Nominal Blaze Wavelength [nm]	Corrected Wavelength Range [nm]	Dimensions [mm ²]	Grating Area [mm ²]	Radius of Curvature [mm]	Monochromator (M) / Polychromator (P)	Cat. No.
1900	blaze	400	250–650	ø 64 x 12	ø 56	207.1	M	264510-2258-824
1864	sine	830	790–880	ø 64 x 10	ø 48	168.7	P	264510-2260-624
1853	blaze	230	200–250	ø 35 x 8	ø 25	64.01	P	000000-2101-550
1600	blaze	230	200–400	ø 25 x 10	ø 17	149.7	P	264510-2951-924
1500	sine	450	330–850	ø 64 x 12	ø 56	206.4	M	264510-2257-824
1400	blaze	230	200–750	ø 50 x 10	ø 46	149.7	M	000000-1390-410
1400	blaze	230	220–530	ø 25 x 10	ø 18	149.7	P	000000-1312-649
1400	blaze	230	190–315	ø 50 x 10	ø 46	136.4	M/P	000000-1305-962
1300	blaze	230/250	200–890	ø 52 x 10	ø 25	175.3	M	792102-0001-010
1300	sine	850	340–800	ø 30 x 8	ø 24	109.8	M/P	000000-1224-543
1221	blaze	230/225	185–900	ø 34 x 7	ø 27	116.3	M	792012-0000-000
1221	blaze	230/250	200-250	ø 50 x 8	ø 37	163.1	M/P	7920050000-000
1200	blaze	230	180–800	ø 30 x 8	ø 24	109.8	M/P	264510-2951-224
1100	blaze	230/250	190–410	ø 50 x 10	ø 20	193.6	P	264510-2953-124
1053	blaze	230/250	200–1100	ø 56 x 10	36 x 30	260.4	M	000000-1321-172
1000	blaze	230	200–900	ø 52 x 10	ø 36	94.4	M	792101-0001-010
1000	blaze	230	190–1100	ø 50 x 10	ø 40	193.6	M	264510-2951-724
1000	blaze	230	190–850	ø 64 x 8	ø 50	192.7	M/P	264510-2950-824
1000	blaze	230	190–400	ø 50 x 10	ø 39	193,6	P	264510-2952-424
950	blaze	230/250	200–415	ø 32 x 7	ø 26/25	150.7	M/P	792060-0000-000
871	blaze	400	330–800	ø 40 x 6	ø 36	61.77	P	000000-1783-219
845	blaze	230/200	170–410	ø 41 x 10	ø 35	138.1	P	264510-2952-924
651	blaze	230	200–800	ø 64 x 10	ø 56	214.8	M/P	264510-2951-124
600	blaze	230	180–800	ø 30 x 8	ø 24	109.8	M/P	264510-2951-324
527	blaze	300	200–1100	ø 56 x 10	30 x 34	141.3	M	792024-0000-000

Groove Density [1/mm]	Grating Profile	Nominal Blaze Wavelength [nm]	Corrected Wavelength Range [nm]	Dimensions [mm ²]	Grating Area [mm ²]	Radius of Curvature [mm]	Monochromator (M) / Polychromator (P)	Cat. No.
355	sine	1800	1400–2400	ø 64x8.1	ø 50	119.1	P	264510-2260-924
324	sine	380/290	190–510	ø 67 x 10	ø 57	160.8	P	792017-0000-000
320	blaze	230	200–900	ø 64 x 12	ø 50	109.8	P	264510-2952-624
320	blaze	230	200–800	ø 30x8	ø 24	109.8	P	264510-2952-724
258	blaze	230/250	190–600	ø 34x7	ø 27	116.3	P	792011-0000-000
250	blaze	230/250	375–750	ø 34x7	ø 28	116.3	P	792004-0000-000
200	blaze	230	200–415	ø 64 x 10	ø 50	180.3	P	264510-2950-324
163	sine	560	470–1100	ø 67 x 10	ø 57	160.8	P	792015-0000-000
157	blaze	230	200–900	ø 50x10	ø 35	163.1	P	000000-1077-583
148.8	blaze	230	200–1100	ø 64 x 10	ø 30	181.5	P	000000-1996-915
110	sine	3400	3000–5700	ø 64 x 10	ø 40	109.8	P	264510-2959-624
100	blaze	230	190–820	ø 64 x 10	ø 50	181.5	P	264510-2952-224

Key

“Grating Profile”	blaze – sawtooth profile sine – sinusoidal profile
“Blaze Wavelength”	The efficiency maximum of holographically recorded gratings
“Corrected Range”	Depending on configuration
“Dimensions”	The given thickness relates to center thickness. Preferred materials are N-BK7 and N-ZK7 (fused silica, zerodur or other materials upon request)

Customized gratings



ZEISS gratings can also be designed and produced to customer specifications. These may be mechanically ruled or holographically produced gratings on either plane or curved substrates. To be able to calculate customer gratings, we need certain data.

Our questionnaire contains the most important parameters that will help us select or calculate the appropriate grating. If you cannot yet provide this information, please do not hesitate to contact us by email (info.spectroscopy@zeiss.com) or by phone for a personal consultation at +49 3641 64-2838.

