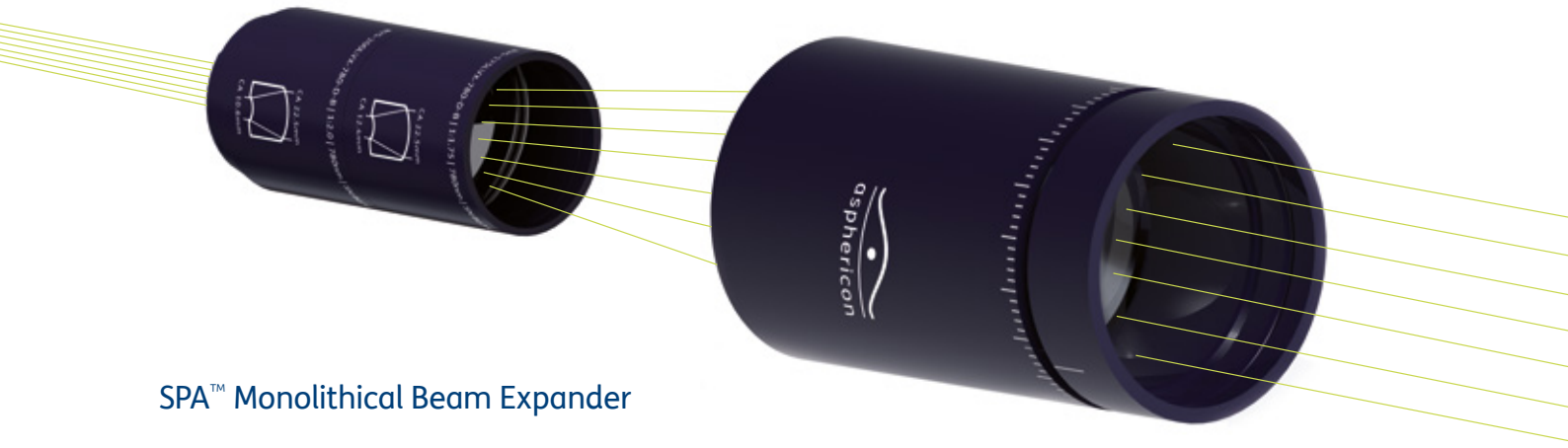
asphericon SPA™ – Standard Precision Aspheres

Monolithical Beam Expander **WaveλdaptNext Level of Beam Expansion**

Diffraction limited beam expansion for wavelengths from 500 nm to 1600 nm.



SPA™ Monolithical Beam Expander

Key Benefits:

- Monolithical Beam Expander with just one aspherical lens for the highest level of precision
- Available with expansions of 1.5, 1.75, 2.0
- Possibility of combining up to five expanders for up to 32 times beam expansion and over 60 intermediate stages
- Completely diffraction-limited with up to five expanders – individually measured and guaranteed by an original asphericon certificate
- Delivered from stock in a practical protective case
- RoHS compliant

SPA™ WaveλdaptNEW

Key Benefits:

- Optimized adaptation to all wavelengths [500 nm to 1600 nm]
- Combinable with up to five monolithical beam expanders – completely diffraction-limited
- Expansion of 1.0x to fit all set-ups
- Easy and flexible handling
- Compensation of divergent incoming beams up to 1 mrad

Lens Description

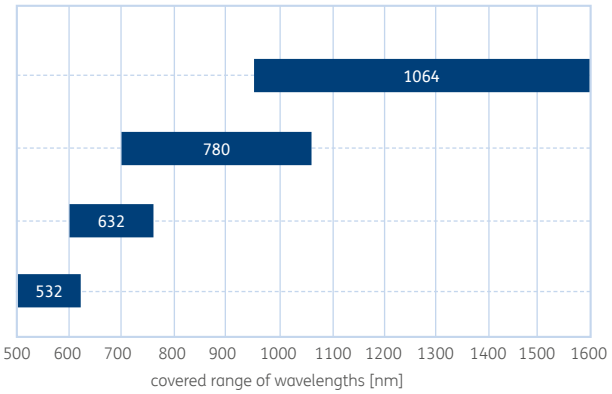
	Product Code	Expansions	Input Apertures [mm]	Output Apertures [mm]
SPA™ Waveλdapt	B25-100LVX-...*-D	1.0	22.5	22.5
SPA™ Beam Expander	B25-150LVX-...*-D	1.5	14.7	22.5
SPA™ Beam Expander	B25-175LVX-...*-D	1.75	12.4	22.5
SPA™ Beam Expander	B25-200LVX-...*-D	2.0	10.6	22.5

*532, 632, 780, 1064 [nm]

Order online: **www.asphericon.com** or by fax +49 (0) 3641 3100 501

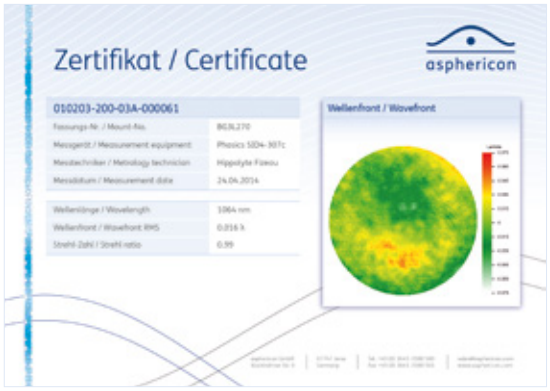
Wavelength range

Covered range of wavelengths for all different SPA™ Beam Expander sets when using SPA™ Wavelλdapt.



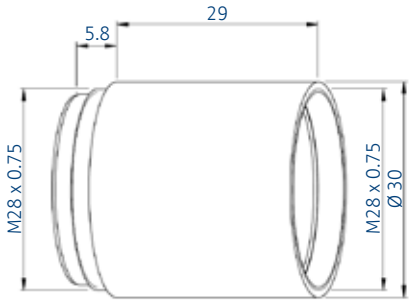
Certificate

For each individual element a certificate based on wave front measurement guarantees diffraction limited performance.



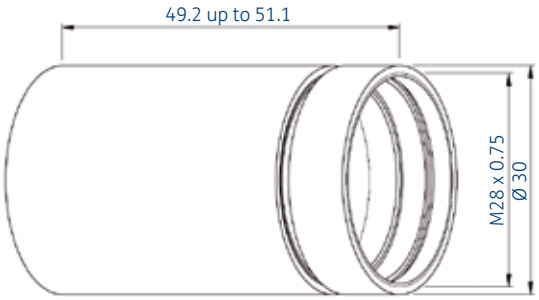
Technical dimensions [mm]

SPA™ Monolithical Beam Expander



Technical dimensions [mm]

SPA™ Wavelλdapt



Cascade combinations

Selected expansion steps and the combination of Beam Expanders required.

	1.5	1.75	2.0
3.00x expansion	1	-	1
5.25x expansion	1	1	1
8.00x expansion	-	-	3
10.5x expansion	1	1	2
16.0x expansion	-	-	4
21.0x expansion	1	1	3

SPA™ Monolithical Beam Expander Configurator

Easily find your cascade combination by using the online configurator.

- = Calculate combinations near your target expansion
- = Calculate combinations by a given number of lenses
- = Calculate the required lenses to get a target expansion

Download your configurator at:

» www.monolithical-beamexpander.com