

quattroXX

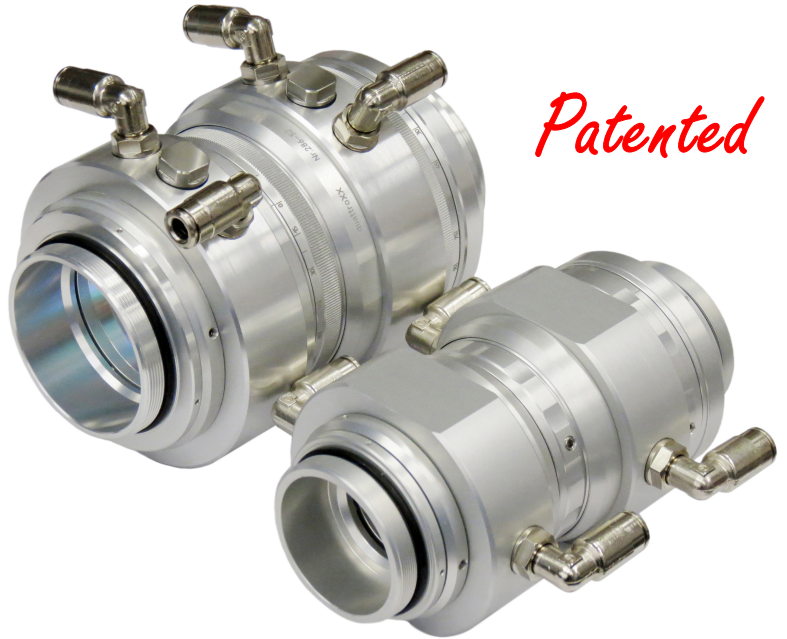
lossless beam splitting for multi kW lasers

Applications:

- Welding
- Cladding
- Brazing
- Multi-spot processing

Features:

- Splitting in 4 spots
- High transmission
- Lossless operation
- CA up to 48 mm
- TEM₀₀ and multimode lasers
- Power up to 6 kW
- Free of thermal lensing effects
- Operation with scanners
- Spectrum: NIR, VIS, NUV



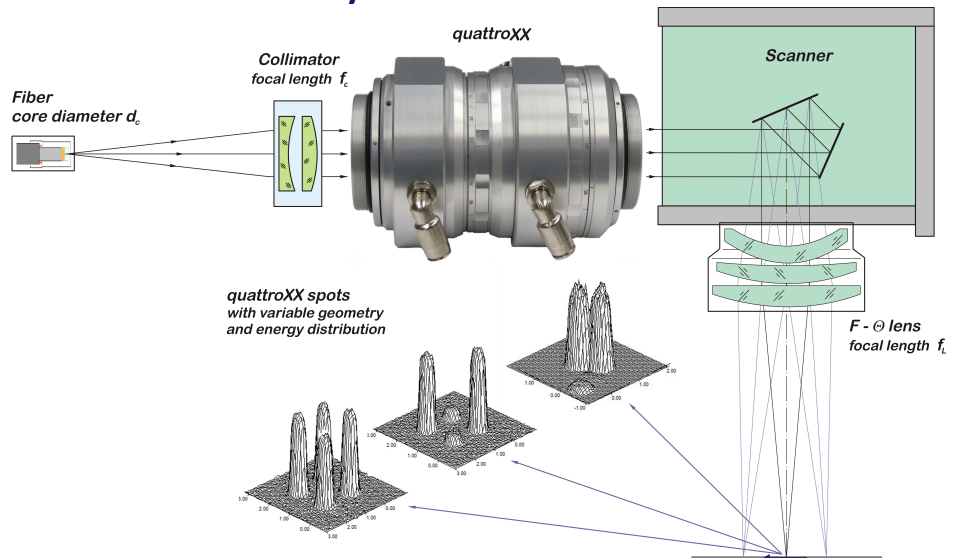
Specifications

Common for quattroXX optics							
Description	<ul style="list-style-type: none"> • lossless beam splitting in several foci perpendicular to the optical axis • to be applied between a Collimator and a Focusing Lens • can be used with scanning optics • variable quattroXX-spot layouts, incl. Doughnut-like • independence of operation from beam quality and size • insensitive to misalignments 						
Number of foci	4						
quattroXX-spot layouts	Square, Rhomb, Line, Twin-spots						
Input	collimated or low divergent/convergent beam						
Laser	multimode or TEM ₀₀ , any M ² or BPP, any beam size within clear aperture						
Spectrum	near-IR, visible (incl. 450 nm, 515 nm), near-UV						
Angular field of view	± 3°						
Adjustment rings	variation of geometry and energy distribution of quattroXX-spots, supplied with angular scale, fixation using a screw						
Water cooling	by 6-1/8 fittings						
Recommended maximum power	6 kW						
Features							
Model	Spectral band nm	Splitting angle, mrad		CA mm	Diameter mm	Length mm	Mounting
		square side	diagonal				
quattroXX 4_D48_1030/1070	1025 - 1035 / 1065 - 1075	2.76 x 2.76	3.9	48	94	140	M58x1
quattroXX 1.9_D48_1080	1075 - 1085	1.33 x 1.33	1.88				
quattroXX 1.9_D48_1030	1025 - 1035						
quattroXX 0.754_D48_1070	1065 - 1075	0.533x0.533	0.754	29	< 75	< 138	M47 x 0.75
quattroXX 0.754_D48_1030	1025 - 1035						
quattroXX 6_D29_1070	1065 - 1075	4.25 x 4.25	6				
quattroXX 8_D29_1070	1065 - 1075	5.68 x 5.68	8	30	< 75	< 138	M47 x 0.75
quattroXX 8_D29_1064	1060 - 1073						
quattroXX 6_D30_1030/1070	1025 - 1035 / 1065 - 1075	4.25 x 4.25	6				
quattroXX 8_D30_1030/1070		5.68 x 5.68	8				

Beam Shaping of multi-kW lasers never was so easy!

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quattroXX
in optical system
with scanning optics



Examples of quattroXX-spots

