

# ams microoptics for fibre coupling

\* standard and customized \*

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[ams]



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# µps microlenses for fibre coupling

refractive microoptic components (single lenses & lens lines)

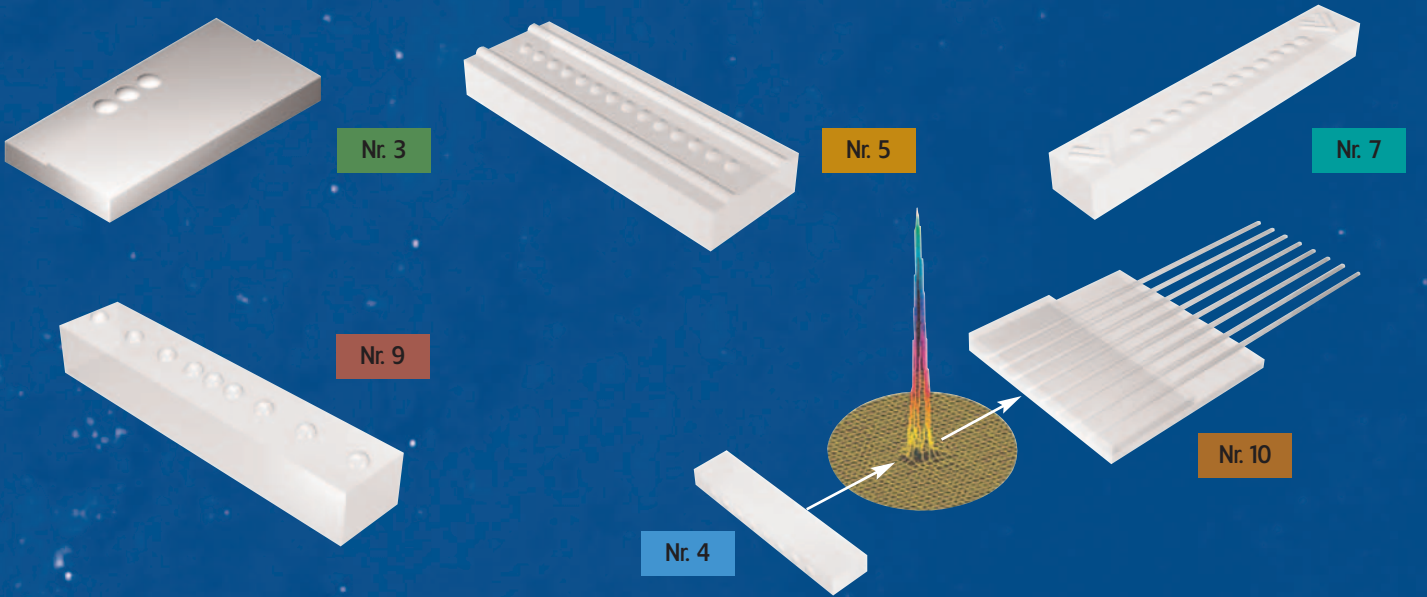
µps offers refractive 1- and 2-side microlens lines for the opto-fibre applications like collimation, focusing, single- and multimode fibre input/output of single- and multi-emitter diode lasers and VCSELs.

Our photolithographic production technology provides wafer based solutions ensuring highest lenslet positioning preciseness and the microlens optical quality of not worse than  $\lambda/4$  which allows for extremely high (over 90%) coupling efficiency.

The micron-precise alignment marks on the lenslet lines allow for their easy micropackaging in fibre connectors, plugs, etc.

We manufacture V- and U-grooves for the precise positioning of the optical fibres and perform fibre/microlens arrays assembling.

The microlens products are available in different optical materials like fused silica, glass or plastics and cover wide range of optical parameters (pitch, aperture, etc.)



Nr.	Product type	Glass Type	Lens diameter, mm	Pitch, mm	Radius R, mm	Size, mm
1	LPL-GT-P1100-AR0,66	STiH-53	1,1	1,1	AR=0,66	16 Lenses
2	LPZ-Q-P1000xP1760(D540)-R0.62	Fused Silica	0,54	1x1,76	R=0.62	64 Lenses
3	LP3-Q-P1000 (D100)-R0.12	Fused Silica	0,1	1.0	R=0.12	3 Lenses
4	LPL-Q-P1000(D540)-R0.62	Fused Silica	0,54	1	R=0.62	8 Lenses
5	LPL-Q-P750 (D420)-AR0.75	Fused Silica	0,42	0,75	AR=0,75	64 Lenses
6	LPL-GT-P750 (D420)-AR0,75	BK-7	0,42	0,75	AR=0,75	64 Lenses
7	LPL-Q-P250 (D235)-R0.34	Fused Silica	0,235	0,25	R=0.34	48 Lenses
8	LPL-GT-P250 (D235)-R0.27	STiH-53	0,235	0,25	R=0.27	48 Lenses
9	LPL-Q-P(84...95) (D80)-AR0.11	Fused Silica	0,08	0,084...0,095	R=0.11	21 Lenses
10	Fibre Array - FA-GB-P1000-D250-1x8	BK-7	0,25 (fibre)	1		1x8 channel