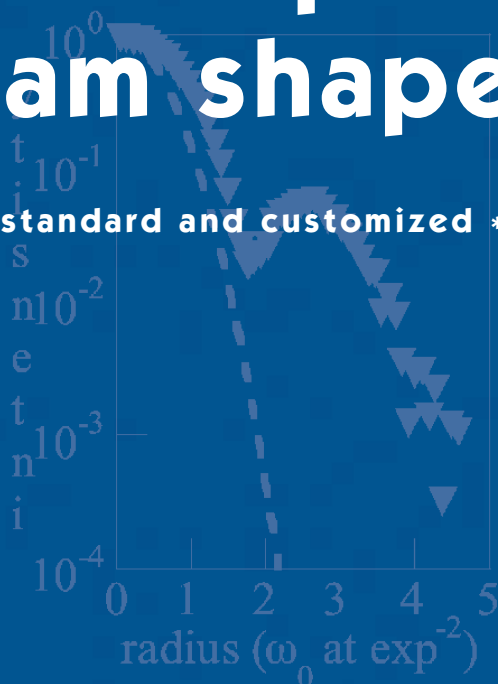


# ams microoptics beam shapers

\* standard and customized \*



## FOCUS ON LIGHT!



advanced microoptic systems



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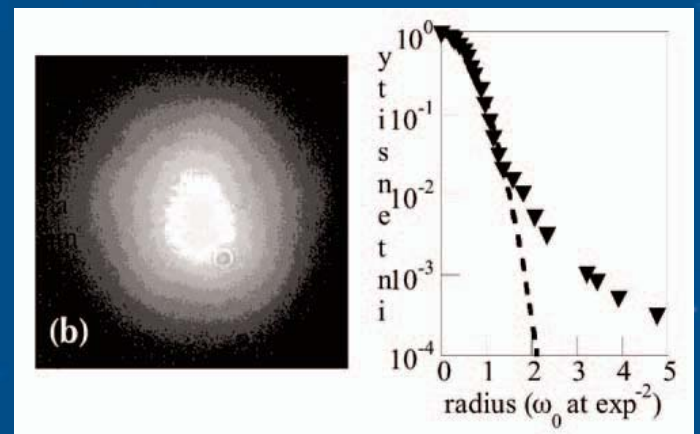
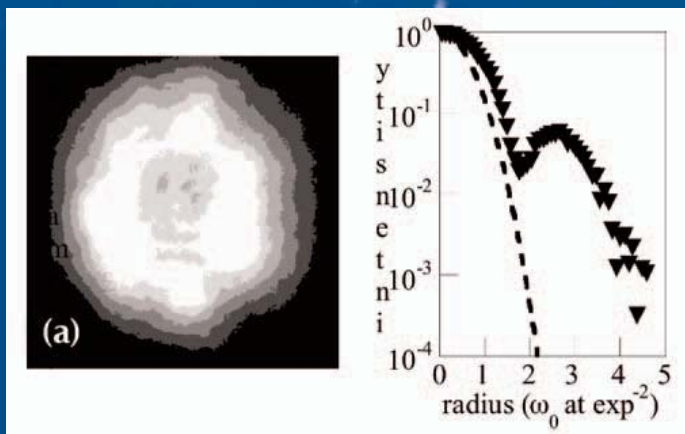
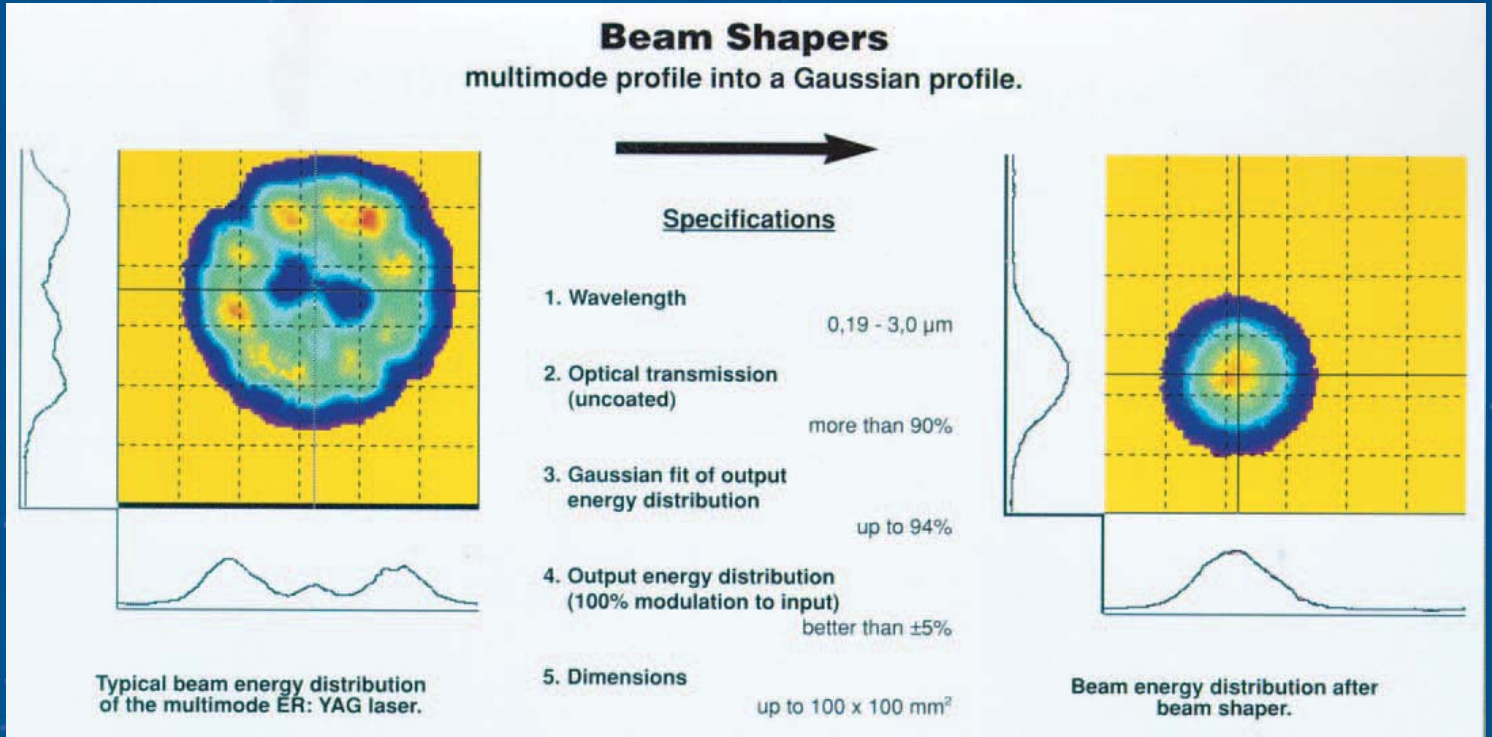
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## aps beam shapers

aps offers beam shapers in form of the 2D- refractive microoptic arrays for beam homogenizing, e.g. transforming of the beam intensity distribution into the Gaussian one, enabling the uniformity up to 94%.

The principal effect is based on the emission mixture by numerous, chaotically arranged refractive microoptic features. Our beam shapers, uncoated, provide over 90% transmission. Available are beam shapers with divergence angles between  $0.2^\circ$  and  $30^\circ$ .

Our beam shapers do not require careful adjustment and can be applied for lasers as well as for other emission sources.



### Microoptical spatial mode conversion for terawatt class amplifiers

The profiles of the amplified beam before (a) and after (b) the use of the micro optics to reshape the pump mode are shown using an eight color gray scale and across a dynamic range of four orders of magnitude. The profile of the focus is shown with a gaussian whose near field profile has the same FWHM energy content.



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