



## 电动、手动扩束器&缩束器

昊量光电提供的扩束器可以根据客户需要可以提供电动和手动两种调节模式，缩束器可以提供手动调节模式。标准或定制的伽利略型激光束扩展器和缩束器用于紫外，可见光和近红外光谱范围有一个独特的机械滑透镜设计，确保高的指向稳定性和最小的尺寸。可调缩束器，用于减小激光束直径或调节散度。

这些可变放大(变焦)光束扩展器和缩束器是为需要的波长而设计的，而每一种类型的光束扩展器都具有发散性可调性。作为可选模块，激光束衰减单元可以与 BDS 系列系统集成在一起。光束扩展器和缩束器的所有光学元件都是由高的 LIDT 涂层的熔融石英制成，即使使用高功率激光器，也能提供稳定可靠的性能。

产品总览:

Motorised laser beam expanders & collimators MEX series

电动激光光束扩束齐 MEX 系列

Model	MEX13	MEX18	MEX210
Design wavelength	1064nm (or other in the range from 240nm to 2000nm)		
Magnification factor	1-3 continuous	1-8 continuous	2-10 continuous
Adjustment	Motorised		
Divergence	Adjustable(Motorised)		
Pointing stability	<0.5mrad(<0.2mrad for HPS version)		
Clear input aperture	8mm		
Clear output aperture	22mm	38mm	22mm
MAX. input beam diameter	8.0(1x)-6.0(3x)mm	8.0(1x)-4.5(8x)mm	12.0(2x)-3.5(10x)mm
Number of optical elements	3	3	4
Total transmission	97%	97%	95%
Lens material	Fused silica		
LIDT(coating)	10[J/cm <sup>2</sup> ](10ns@1064nm)		
Mechanical length	140mm	245mm	210mm
Laser power attenuation	No		

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特点：

- 全合一装置控制激光束直径和功率波长范围 260 nm 至 2 m。
- 紧凑而稳健的工业设计。
- 高指向稳定
- 自定义和 OEM 设计
- 滑动透镜闭环设计，确保高指向稳定性
- 机动化扩张和分流调整
- 集成控制器，无需外部控制器

Tunable laser beam expanders TEX series

手动激光光束扩束器 TEX 系列

Model	TEX18	TEX13
Design wavelength	1064nm+532nm	
Magnification factor	1-8 continuous	1-3 continuous
Adjustment	Manual	
Divergence adjustable	Yes	
Pointing stability	<0.5mrad	
Clear input aperture	8mm	10mm
Clear output aperture	40mm	22mm
MAX. Input beam diameter	8.0(1x)-4.5(8x)mm	10.0(1x)-6.0(3x)mm
Number of optical elements	3	
Total transmission	97%	
Lens material	Fused silica	
LIDT(coating)	10[J/cm <sup>2</sup> ](10ns@1064nm)	
Mechanical length	105mm	

特点：

- 定制和大孔径设计
- 波长范围为 250nm 至 12 m
- 紧凑和稳定的滑动镜头设计
- 高指向稳定性
- 可调节的差异

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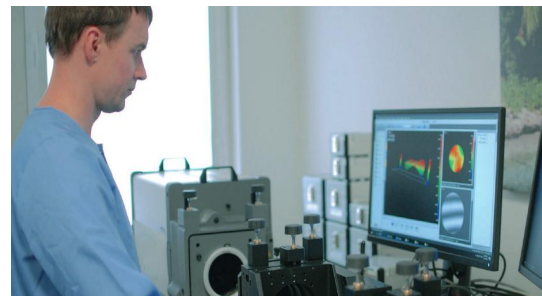
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Tunable laser beam reducers TRE series

手动激光光束缩束器

Model	TRE13	TRE13SH	TRE13TH
Design wavelength	1020-1070nm	510-535nm	343-355nm
Reduction factor	1-3 continuous		
Adjustment	Manual		
Divergence adjustable	Yes		
Pointing stability	<1mrad		
Clear input aperture	10.5mm		
Clear output aperture	8mm		
Total number of lenses	3		
Total transmission	97%		
Lens material	Fused silica		
LIDT(coating)	10[J/cm <sup>2</sup> ](10ns@1064nm)	10[J/cm <sup>2</sup> ](10ns@1064nm)	5[J/cm <sup>2</sup> ](10ns@1064nm)
Mechanical length	120mm		
Mounting thread	SM1		



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