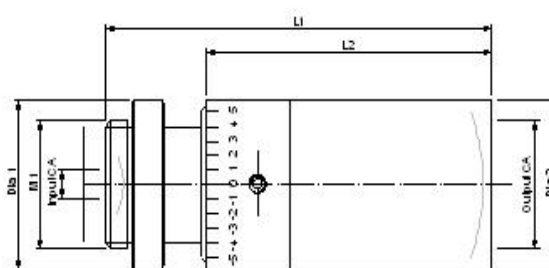
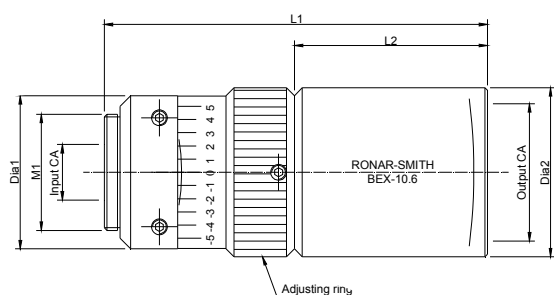


Beam Expander

The most common type beam expander is derived from Galilean telescope which usually has one negative input lens and one positive output lens. The input lens presents a virtual beam focus at the output. For low expansion ratio, the Galilean telescope is most often employed due to simplicity, small package size and low cost. Beam expander is commonly used to magnify the laser diameter to be focused back in smaller spot size.



BEX Series – Beam Expander

Part No.	Magnification	Input CA (mm)	Output CA (mm)	Thread	Dia (mm)	Length (mm)	Wavelength
BEX-1064-1.2X	1.2x	16.0	23.0	M22x0.75	29.0	54.9	1064nm
BEX-1064-1.5X	1.5x	15.0	22.0	M22x0.75	32.0	51.9	1064nm
BEX-1064-1.5X1	1.5x	15.5	23.0	M22x0.75	25.0	44.5	1064nm
BEX-1064-2Xi	2.0x	10.0	20.0	M22x0.75	26.0	42.0	1064nm
BEX-1064-2.5X1	2.5x	10.0	23.0	M22x0.75	29.0	79.8	1064nm
BEX-1064-3Xi	3.0x	10.0	20.0	M22x0.75	26.0	60.0	1064nm
BEX-1064-3X3	3.0x	10.0	23.0	M22x0.75	29.0	58.0	1064nm
BEX-1064-4Xi	4.0x	10.0	22.0	M22x0.75	29.0	81.14	1064nm
BEX-1064-5Xi	5.0x	10.0	23.0	M22x0.75	29.0	72.0	1064nm
BEX-1064-6Xi	6.0x	5.0	22.0	M22x0.75	29.0	71.29	1064nm
BEX-1064-6X2	6.0x	10.0	32.0	M30x1	37.6	84.6	1064nm
BEX-1064-7X	7.0x	6.0	23.0	M22x0.75	29.0	76.43	1064nm
BEX-1064-8Xi	8.0x	10.0	22.0	M22x0.75	29.0	76.0	1064nm
BEX-1064-10Xi	10.0x	8.0	22.0	M22x0.75	29.0	69.74	1064nm
BEX-1064-15X	15.0x	7.5	28.0	M30x1	45.0	99.12	1064nm
BEX-1064-20X	20.0x	8.0	28.0	M22x0.75	45.0	91.27	1064nm
BEX-633-3X	3.0x	10.0	23.0	M22x0.75	33.0	63.7	633nm
BEX-633-5X	5.0x	8.0	23.0	M22x0.75	33.0	110.0	633nm
BEX-633-8X	8.0x	11.0	23.5	M28x0.55	35.0	117.5	633nm
BEX-633-10X	10.0x	8.0	23.0	M22x0.75	30.0	146.0	633nm
BEX-633-20X	20.0x	8.0	76.0	M22x0.75	30.0	198.0	633nm
BEX-633-40X	40.0x	8.0	100.0	M22x0.75	40.0	246.0	633nm

Part No.	Magnification	Input CA (mm)	Output CA (mm)	Thread	Dia (mm)	Length (mm)	Wavelength
BEX-633-50X	50.0x	10.0	81.0	M22x0.75	30.0	304.0	633nm
BEX-532-2XA	2.0x	6.0	23.0	M22x0.75	30.0	83.0	532nm
BEX-532-3XA	3.0x	6.0	23.0	M22x0.75	30.0	83.0	532nm
BEX-532-4X	4.0x	6.0	23.0	M22x0.75	30.0	83.0	532nm
BEX-532-5Xi	5.0x	8.0	24.0	M22x0.75	30.0	81.5	532nm
BEX-532-6Xi	6.0x	6.0	23.0	M22x0.75	30.0	83.0	532nm
BEX-532-6X2	6.0x	10.0	23.6	M22x0.75	30.0	83.0	532nm
BEX-532-10Xi	10.0x	6.0	23.0	M22x0.75	30.0	83.0	532nm
BEX-532-15X	15.0x	6.0	32.0	M30x1	30.0	85.0	532nm
BEX-532-18X	18.0x	5.0	40.0	20.5mm	20.5	176.5	532nm
BEX-532-20X-Q	20.0x	6.0	38.0	M30x1	40.0	95.2	532nm
BEX-355-1.5X	1.5x	6.0	24.0	M30x1	36.0	76.5	355nm
BEX-355-2X	2.0x	6.0	24.0	M30x1	36.0	75.6	355nm
BEX-355-3X	3.0x	6.0	24.0	M30x1	36.0	77.3	355nm
BEX-355-4X	4.0x	6.0	28.0	M30x1	36.0	75.0	355nm
BEX-355-5X	5.0x	6.0	28.0	M30x1	36.0	73.5	355nm
BEX-355-7X	7.0x	6.0	28.0	M30x1	32.0	88.1	355nm
BEX-355-8X	8.0x	6.0	28.0	M30x1	36.0	84.0	355nm
BEX-355-10X	10.0x	6.0	28.0	M30x1	36.0	96.0	355nm
BEX-355-20X	20.0x	6.0	28.0	M30x1	36.0	97.0	355nm
BEX-266-1.5X	1.5x	8.0	24.0	M22x0.75	30.0	63.7	266nm
BEX-266-2X	2.0x	8.0	24.0	M22x0.75	30.0	73.0	266nm
BEX-266-3X	3.0x	6.0	30.0	M22x0.75	30.0	68.7	266nm
BEX-266-5X	5.0x	6.0	30.0	M22x0.75	30.0	69.6	266nm
BEX-266-10X	10.0x	3.0	30.0	M22x0.75	27.0	95.6	266nm
BEX-266-20X	20.0x	1.5	30.0	M22x0.75	30.0	96.0	266nm

High Power Beam Expander 1030-1090nm

This series of beam expander is developed for fiber laser 1030-1090nm, all expanders are made by Fused Silica for high power application. With identified outline in dimension and connecting thread C-mount.

Part No.	Magnification	Input CA (mm)	Output CA (mm)	Thread	Dia (mm)	Length (mm)	Wavelength
BEX-1030-1090-1.5X	1.5x	12.0	24.0	C-mount	35.0	67.93	1030-1090nm
BEX-1030-1090-2X	2.0x	12.0	24.0	C-mount	35.0	67.93	1030-1090nm
BEX-1030-1090-3X	3.0x	12.0	24.0	C-mount	35.0	67.93	1030-1090nm
BEX-1030-1090-4X	4.0x	12.0	24.0	C-mount	35.0	67.93	1030-1090nm

NOTE: Broadband expander of different specs are available upon request