

Focusing head / Optical Fiber



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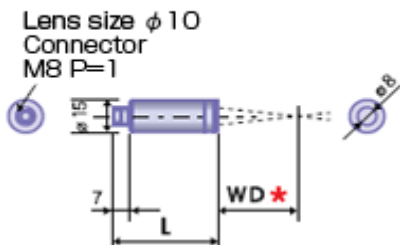
Dedicated optics for laser welders.

Simple type, CCD camera loaded type and light loaded type can be selected.

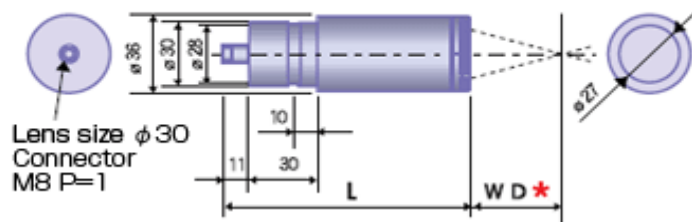
Focusing head

The focus head assembly efficiently collects laser beam coming from the optical fiber. There are various types available, differing by the work distance and the focal distance involved. There is a standard type, and there is also a CCD camera version that allows checks of the work point with a CCD camera during welding operations.

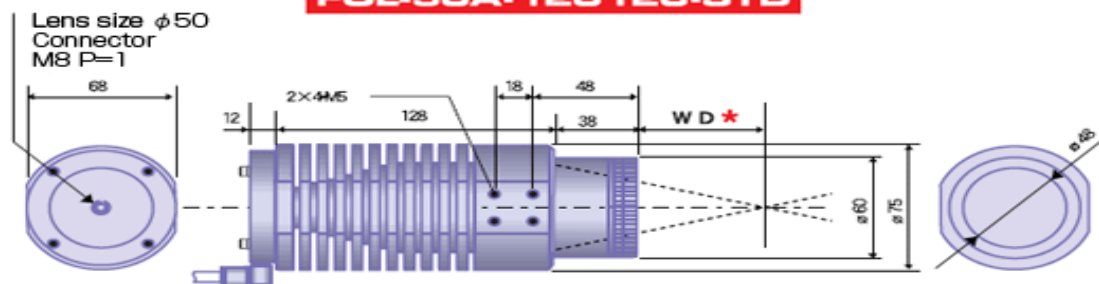
FOL-10A-****-STD



FOL-30A-****-STD



FOL-50A-120120-STD



CCD camera loaded unit

There are three types of illumination method. The one that best suits the application can be selected. Also, the most appropriate lens diameter and protective glass shape for each can be selected. Furthermore, a large color monitor has been made standard to improve the ease of viewing.

Standard model : Epi-illumination type

Input and output lens diameter: 30mm, 40mm, 50mm

Protective glass shape: square, round



For work with curved surfaces : For work with curved surfaces

Input and output lens diameter: 30mm, 40mm

Protective glass shape: round

Note: For some models, certain ring illumination

sizes do not allow certain lens diameters.



For work with high reflection ratios : Side illumination type

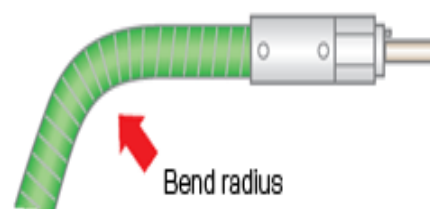
Input and output lens diameter: 30mm, 40mm

Protective glass shape: square, round



Optical fiber

For most applications we recommend the SI (Step Index) Optical Fiber. Bending the optic fiber less than the permitted bend radius could cause a breakage. Please use it at a larger radius.



SPECIFICATIONS

- Focusing head

Standard type

			Focal point (f)	Working distance (WD)*	Length (L)	Weight
FOL-10A	-2040	-STD	40mm	33.4mm	45.6mm	70g
	-2050		50mm	43.8mm		
FOL-10A	-4040	-STD	40mm	33.4mm	64.2mm	80g
	-4050		50mm	33.4mm		
	-4060		60mm	54.0mm		
	-4070		70mm	64.3mm		
FOL-20A	-5050	-STD	50mm	42.6mm	80.8mm	100g
	-5060		60mm	52.9mm		
	-5070		70mm	63.4mm		
	-5080		80mm	73.6mm		
	-50100		100mm	94.2mm		
FOL-30A	-7050	-STD	50mm	39.2mm	107.8mm	140g
	-7070		70mm	60.3mm		
	-7080		80mm	70.7mm		
	-70100		100mm	91.5mm		
	-70120		120mm	112.1mm		
FOL-30A	-10050D	-STD	50mm	36.9mm	139.3mm	160g
FOL-30A	-15050D	-STD	50mm	36.8mm	191.0mm	180g
FOL-30A	-20050D	-STD	50mm	36.7mm	242.4mm	220g
FOL-40A	-7070	-STD	70mm	58.4mm	108.8mm	200g
	-7080		80mm	69.0mm		
	-70100		100mm	90.0mm		
	-70120		120mm	110.8mm		
FOL-40A	-100100	-STD	100mm	90.2mm	136.8mm	230g
FOL-40A	-12060D	-STD	60mm	44.8mm	160.3mm	260g
	-12070		70mm	59.3mm		
	-12080		80mm	69.9mm		
	-120100		100mm	91.0mm		
FOL-50A	-120120	-STD	120mm	105.9mm	178.0mm	1200g

- Optical fiber

Model	SIH-02CA	SIH-03CA	SIH-04CA	SIH-06CA	SIH-08CA
Core diameter	Ø0.2mm	Ø0.3mm	Ø0.4mm	Ø0.6mm	Ø0.8mm
Permitted bend radius	100mm			150mm	200mm
External diameter	Ø8mm				

*Specifications subject to change without notice.