



Consommable pour machine laser

L.V.D / 2009

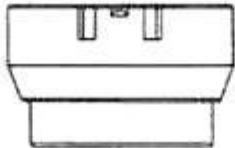
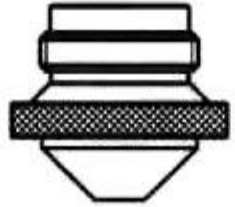
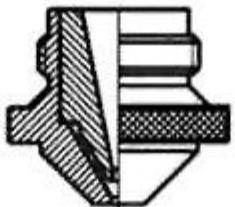






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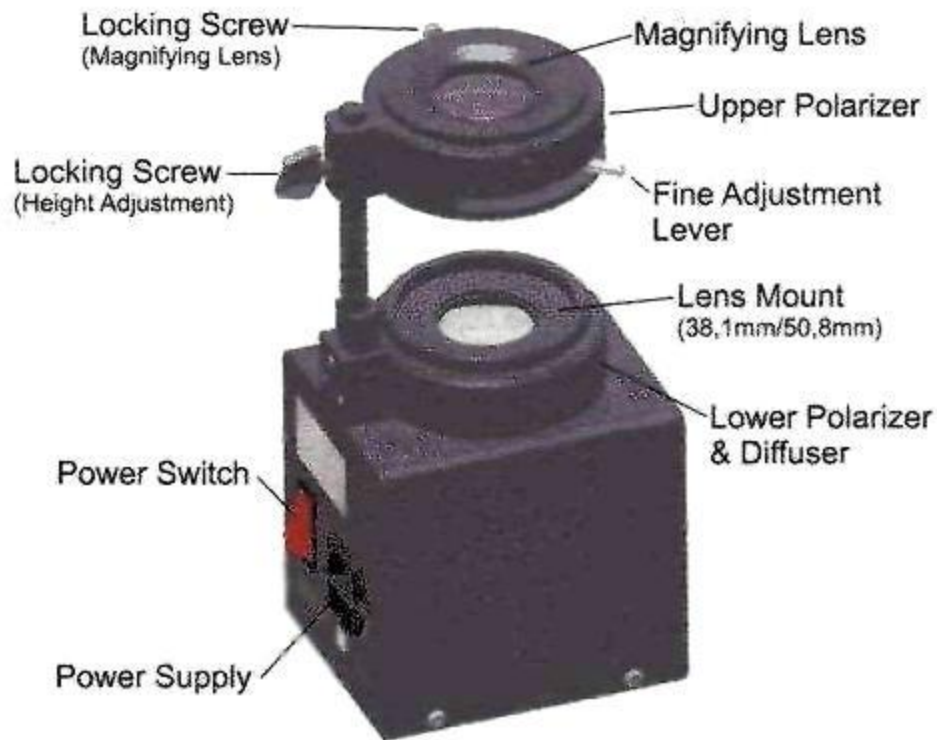
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Ref.- No.	Order-No.	Description
Consumables suitable for L.V.D		
281146	HG 10.219	
Nozzle holder - Aluminium (P0380-211-00001).....		
Standard copper nozzles		
D5241993 D7945470 D5241982 D7945434 D7945452 D7945517	HG 10.202 HG 10.250 HG 10.204 HG 10.251 HG 10.252 HG 10.257	
D5241862 D5241855 D5241856 D5241857 D5241877 D5241878	HG 10.258 HG 10.203 HG 10.259 HG 10.254 HG 10.253 HG 10.255 HG 10.256 HG 10.249	Nozzle Ø 0,8 mm.....(inside cylindrical). Nozzle Ø 1,0 mm.....(inside cylindrical). Nozzle Ø 1,2 mm.....(inside cylindrical). Nozzle Ø 1,5 mm.....(inside cylindrical). Nozzle Ø 2,0 mm.....(inside cylindrical). Nozzle Ø 2,5 mm.....(inside cylindrical). Nozzle Ø 1,0 mm.....(inside conical). Nozzle Ø 1,2 mm.....(inside conical). Nozzle Ø 1,5 mm.....(inside conical). Nozzle Ø 2,0 mm.....(inside conical). Nozzle Ø 2,5 mm.....(inside conical). Nozzle Ø 3,0 mm.....(inside conical). Nozzle Ø 3,5 mm.....(inside conical). Nozzle Ø 4,0 mm.....(inside conical).
	HG 11.260 HG 11.261 HG 11.262 HG 11.263 HG 11.264 HG 11.265 HG 11.266	
Double nozzle Ø 1,0 mm..... Double nozzle Ø 1,5 mm..... Double nozzle Ø 2,0 mm..... Double nozzle Ø 2,5 mm..... Double nozzle Ø 3,0 mm..... Double nozzle Ø 3,5 mm..... Double nozzle Ø 4,0 mm.....		
Nozzles with hard chromium plating		
D5241993 D7945470 D5241982 D7945434 D7945452 D7945517	HG 10.202/C HG 10.250/C HG 10.204/C HG 10.251/C HG 10.252/C HG 10.257/C	
D5241862 D5241855 D5241856 D5241857 D5241877 D5241878	HG 10.258/C HG 10.203/C HG 10.259/C HG 10.254/C HG 10.253/C HG 10.255/C HG 10.256/C HG 10.249/C	Nozzle Ø 0,8 mm Hard chrom.plat. (inside cylindrical) Nozzle Ø 1,0 mm Hard chrom.plat. (inside cylindrical) Nozzle Ø 1,2 mm Hard chrom.plat. inside cylindrical) Nozzle Ø 1,5 mm Hard chrom.plat. (inside cylindrical) Nozzle Ø 2,0 mm Hard chrom.plat. (inside cylindrical) Nozzle Ø 2,5 mm Hard chrom.plat. (inside cylindrical) Nozzle Ø 1,0 mm Hard chrom.plating (inside conical) Nozzle Ø 1,2 mm Hard chrom.plating (inside conical) Nozzle Ø 1,5 mm Hard chrom.plating (inside conical) Nozzle Ø 2,0 mm Hard chrom.plating (inside conical) Nozzle Ø 2,5 mm Hard chrom.plating (inside conical) Nozzle Ø 3,0 mm Hard chrom.plating (inside conical) Nozzle Ø 3,5 mm Hard chrom.plating (inside conical) Nozzle Ø 4,0 mm Hard chrom.plating (inside conical)
	HG 11.260/C HG 11.261/C HG 11.262/C HG 11.263/C HG 11.264/C HG 11.265/C HG 11.266/C	
Double nozzle Ø 1,0 mm Hard chromium plating Double nozzle Ø 1,5 mm Hard chromium plating Double nozzle Ø 2,0 mm Hard chromium plating Double nozzle Ø 2,5 mm Hard chromium plating Double nozzle Ø 3,0 mm Hard chromium plating Double nozzle Ø 3,5 mm Hard chromium plating Double nozzle Ø 4,0 mm Hard chromium plating		

Ref.-No.	Order-No.	Description
<p>M.P.S CO - Laser - Lenses suitable for LVD</p>		
29100023	HG 10.167/H	<p>ZnSe-Meniscus Lens 5,00" High Pressure Lens (25 bar), Ø 38,1 mm Effective Focal Length: 127,0 mm, ET: 7,4 mm AR/AR for 10,6µm (Absorption <0.20%)</p>
29100030	HG 10.168/H	<p>ZnSe-Meniscus Lens 7,50" High Pressure Lens (25 bar), Ø 38,1 mm Effective Focal Length: 190,5 mm, ET: 7,4 mm AR/AR for 10,6µm (Absorption <0.20%)</p>
29100055	HG 10.621/H	<p>ZnSe-Meniscus Lens 7,50" High Pressure Lens (24 bar), Ø 50,8 mm Effective Focal Length: 190,5 mm, ET: 9,7 mm AR/AR for 10,6µm (Absorption <0.24%)</p>
29100055	HG 15.003/H	<p>ZnSe-Plano-Convex Lens 7,50" High Pressure Lens (24 bar), Ø 50,8 mm Effective Focal Length: 190,5 mm, ET: 9,7 mm AR/AR for 10,6µm (Absorption <0.24%)</p>
29100061	HG 10.622/H	<p>ZnSe-Meniscus Lens 10,00" High Pressure Lens (24 bar), Ø 50,8 mm Effective Focal Length: 254,0 mm, ET: 9,7 mm AR/AR for 10,6µm (Absorption <0.24%)</p>
<p>For a laserpowers above 4kW, we do recommend lenses with the special M.P.S Ultra Low coating for the following reasons. These lenses do offer a lower absorption (<0.15%). The results of the lower heat absorption are less tensions and optical distortions. Furthermore the focal length is more stable. Also in case of a slightly dirty lens you can still profit from these advantages. These lenses are not black. Therefore it is not possible to differentiate them from the standard ZnSe-Meniscus lenses. M.P.S Ultra Low lenses are appropriately marked on the edge.</p>		
29100023	HG 10.167/HU	<p>ZnSe-Meniscus Lens 5,00" High Pressure Lens (25 bar), Ø 38,1 mm Effective Focal Length: 127,0 mm, ET: 7,4 mm M.P.S Ultra Low AR/AR for 10,6µm (Absorption <0.15%)</p>
29100030	HG 10.168/HU	<p>ZnSe-Meniscus Lens 7,50" High Pressure Lens (25 bar), Ø 38,1 mm Effective Focal Length: 190,5 mm, ET: 7,4 mm M.P.S Ultra Low AR/AR for 10,6µm (Absorption <0.15%)</p>
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29100061	HG 10.622/HU	<p>ZnSe-Meniscus Lens 10,00" High Pressure Lens (24 bar), Ø 50,8 mm Effective Focal Length: 254,0 mm, ET: 9,7 mm M.P.S Ultra Low AR/AR for 10,6µm (Absorption <0.15%)</p>
	HG 10.174	<p>M.P.S Polish Polish for laseroptics, 100ml</p>
	HG 10.173	<p>Lens cleaning paper from Tiffen® From the producer of Kodak® paper (no longer available!!) Sheet size: ca. 70 x 115 mm, Package containing: 50 sheets</p>
	HG 15.099	<p>Cleaning holder (Teflon) for lenses (to use on both sides)</p>
		 with Ø 38.10mm
		 with Ø 50.80mm

Dirt & Strain Viewer for Lenses and Cleaning Set



Picture 1



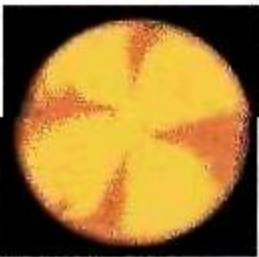
It is easily visible, that this lens is dirty.

Picture 2



Here are two small pieces of backspatter in the very center of the lens.

Picture 3



Lens was overheated (stress). This cannot be seen with the naked eye. This problem is mainly occurring with lasers with a power of 4, 5, 6 or 7kW.

Here we do recommend our **M.P.S Ultra Low[®]** - lenses with very low absorption values.

Picture 4



The bright spots at the edge of the lens show, that the lens was mounted too tight in the holder. The reason is, that the holder is dirty or was screwed too tight. Because the lens consists of soft material, it is strained, so that you have problems finding the focussing point and it is stressed very easily. You can see the stress in the middle of the lens (shadow - cross). All this is not visible with the naked eye. Because you could not see the cause without the dirt & strain viewer, every new lens would have been also damaged when built in.

C'est aussi

