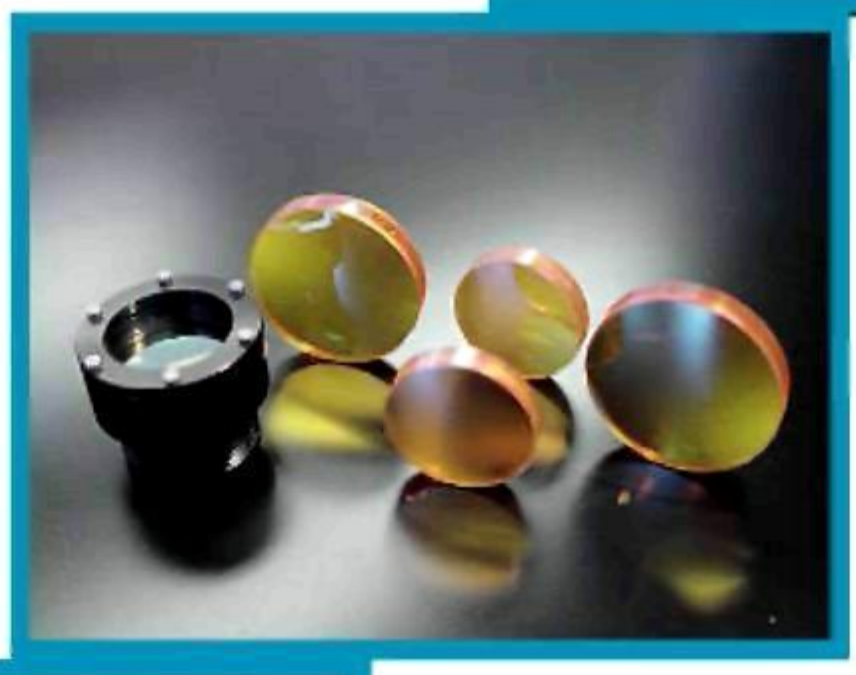
TRUMPF / 2009

Consommable pour machine laser



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Consumables suitable for Trumpf Trumatic L2530-L3030-L3050-L4030-6000L L6030-L2503E-L3003E-L4003E-TC600L

All nozzles in boxes of 10

Standard copper nozzles

Ref.-No.	Order-No.	Description
0124561	HG 10.150	Nozzle Ø 0,8 mm
0124562	HG 10.151	Nozzle Ø 1,0 mm
0966809	HG 10.148	Nozzle Ø 1,2 mm
0237497	HG 10.152	Nozzle Ø 1,4 mm with step
237497-S	HG 10.159	Nozzle Ø 1,4 mm with straight taper
237500	HG 10.153	Nozzle Ø 1,5 mm
0237501	HG 10.154	Nozzle Ø 1,7 mm
1253211	HG 10.155	Nozzle Ø 2,0 mm
0126933	HG 10.158	Nozzle Ø 2,3 mm
	HG 10.156	Nozzle Ø 2,5 mm
0942742	HG 10.149	Nozzle Ø 2,7 mm
237504	HG 10.157	Nozzle Ø 3,0 mm

Nozzles with hard chromium plating

0352280	HG 10.150/C	Nozzle Ø 0,8 mm **Hard chromium plating**
0352281	HG 10.151/C	Nozzle Ø 1,0 mm **Hard chromium plating**
0352282	HG 10.148/C	Nozzle Ø 1,2 mm **Hard chromium plating**
0352283	HG 10.152/C	Nozzle Ø 1,4 mm **Hard chromium plating**
0352284	HG 10.154/C	Nozzle Ø 1,7 mm **Hard chromium plating**
1253212	HG 10.155/C	Nozzle Ø 2,0 mm **Hard chromium plating**
0352285	HG 10.158/C	Nozzle Ø 2,3 mm **Hard chromium plating**
0352286	HG 10.149/C	Nozzle Ø 2,7 mm **Hard chromium plating**

Long copper nozzles

Shortens the distance to the old cutting edge and reduces the danger of collision (up-turned parts) !!

1277773	HG 10.130	Nozzle Ø 0,8 mm
1277771	HG 10.131	Nozzle Ø 1,0 mm
1277774	HG 10.132	Nozzle Ø 1,2 mm
1277776	HG 10.133	Nozzle Ø 1,4 mm
1277779	HG 10.134	Nozzle Ø 1,7 mm
1277780	HG 10.135	Nozzle Ø 2,0 mm
1277781	HG 10.136	Nozzle Ø 2,3 mm
1277782	HG 10.137	Nozzle Ø 2,7 mm

Long nozzles with hard chromium plating

Shortens the distance to the old cutting edge and reduces the danger of collision (up-turned parts) !!

	HG 10.130/C	Nozzle Ø 0,8 mm **Hard chromium plating**
	HG 10.131/C	Nozzle Ø 1,0 mm **Hard chromium plating**
	HG 10.132/C	Nozzle Ø 1,2 mm **Hard chromium plating**
	HG 10.133/C	Nozzle Ø 1,4 mm **Hard chromium plating**
	HG 10.134/C	Nozzle Ø 1,7 mm **Hard chromium plating**
	HG 10.135/C	Nozzle Ø 2,0 mm **Hard chromium plating**
	HG 10.136/C	Nozzle Ø 2,3 mm **Hard chromium plating**
	HG 10.137/C	Nozzle Ø 2,7 mm **Hard chromium plating**

Ref.-No.	Order-No.	Description	
		Consumables suitable for Trumpf Trumatic L2530-L3030-L3050-L4030-6000L L6030-L2503E-L3003E-L4003E-TC600L	
234485	HG 10.163	Break-away-bar.....	
0353188	HG 10.107	Ceramic nozzle holder (Lasermatic)..... old Ref 0258809	
0260432	HG 10.109	Ceramic nozzle holder DIAS III.....	
216066	HG 10.165	Locking nut.....	
0225286	HG 10.160	Teflon - Cover white (Lasermatic).....	
254496	HG 10.161	Teflon - Cover white.....	
256153 **0955826**	HG 10.162 **HG 10.162/1**	Teflon - Cover DIAS III white..... **Teflon - Cover DIAS III black.....**	
		Consumables suitable for Trumpf Laser L1003/L2503/L3003/L4003	
0353188	HG 10.107	Ceramic nozzle holder (Lasermatic) ..... old Ref 0353188	
		Due to patent protection not to be exported to the Federal Republic of Germany !!	
216066	HG 10.165	Locking nut.....	
		All nozzles packed in boxes of 10	
215780	HG 10.100	Nozzle Ø 0,8 mm.....	
087658	HG 10.101	Nozzle Ø 1,0 mm.....	
088894	HG 10.102	Nozzle Ø 1,4 mm high pressure.....	
217867	HG 10.104	Nozzle Ø 1,7 mm high pressure.....	
088893	HG 10.103	Nozzle Ø 1,5 mm.....	
221781	HG 10.105	Nozzle Ø 2,0 mm.....	
235592	HG 10.108	Nozzle Ø 3,0 mm.....	
216065	HG 10.112	Teflon - Cover.....	

Ref.-No.	Order-No.	Description	
		NEW!! NEW!! NEW!! **Consumables suitable for Trumpf/TruLaser 5030 - 5040 and 5060 (6/7KW Laser)** **Nozzles are packed in strips of 10 tear-off bags**	
1324858	HG 10.060	Nozzle Ø 0,8 mm	
1324860	HG 10.061	Nozzle Ø 1,0 mm	
1324861	HG 10.062	Nozzle Ø 1,2 mm	
1324863	HG 10.063	Nozzle Ø 1,4 mm	
1324864	HG 10.064	Nozzle Ø 1,7 mm	
1324865	HG 10.065	Nozzle Ø 2,0 mm	
1324866	HG 10.066	Nozzle Ø 2,3 mm	
1324867	HG 10.067	Nozzle Ø 2,7 mm	
	HG 10.060/D	Double-Nozzle Ø 0,8 mm	
	HG 10.061/D	Double-Nozzle Ø 1,0 mm	
	HG 10.062/D	Double-Nozzle Ø 1,2 mm	
	HG 10.063/D	Double-Nozzle Ø 1,4 mm	
	HG 10.064/D	Double-Nozzle Ø 1,7 mm	
	HG 10.065/D	Double-Nozzle Ø 2,0 mm	
	HG 10.066/D	Double-Nozzle Ø 2,3 mm	
	HG 10.067/D	Double-Nozzle Ø 2,7 mm	
		M.P.S CO_2 - Laser - Lenses **suitable for Trumpf/TruLaser 5030 - 5040 and 5060 (6/7KW Laser)**	
1330448	HG 10.120/HU	ZnSe-Meniscus Lens High Pressure Lens (35 bar), Ø 50,0 mm **Effective Focal Length: 175,0 mm** Edge Thickness: 9,0 mm AR/AR for 10,6µm (Absorption <0.24%)	
1330443	HG 10.121/HU	ZnSe-Meniscus Lens High Pressure Lens (35 bar), Ø 50,0 mm **Effective Focal Length: 250,0 mm** Edge Thickness: 9,0 mm AR/AR for 10,6µm (Absorption <0.24%)	
	HG 10.174	**M.P.S Polish** Polish for laseroptics, 100ml	
	HG 10.173	**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	
	HG 15.099	**Cleaning holder (Teflon) for lenses** ***(to use on both sides)*** with Ø 38.10mm with Ø 50.80mm	

Consumables suitable for Trumpf Laser TLC 105

Ref.-No.	Order-No.	Description
913965	HG 10.007	Locking nut

All nozzles packed in boxes of 10

Standard copper nozzles

Ref.-No.	Order-No.	Description
0212334	HG 10.010	Nozzle Ø 1,0 mm
	HG 10.025	Nozzle Ø 1,0 mm HD M.P.S Design
0216199	HG 10.011	Nozzle Ø 1,4 mm HD
0225213	HG 10.012	Nozzle Ø 1,7 mm HD
0126156	HG 10.028	Nozzle Ø 2,3 mm HD
237364	HG 10.019	"Shower" - nozzle Ø 1,0 mm
226939	HG 10.013	Nozzle Ø 1,0 mm
	HG 10.026	Nozzle Ø 1,0 mm HD M.P.S Design
226940	HG 10.014	Nozzle Ø 1,4 mm HD
227144	HG 10.015	Nozzle Ø 1,7 mm HD
	HG 10.029	Nozzle Ø 2,3 mm HD
0135320	HG 10.016	Nozzle Ø 1,0 mm
0135318	HG 10.017	Nozzle Ø 1,4 mm HD
0126157	HG 10.018	Nozzle Ø 1,7 mm HD
	HG 10.030	Nozzle Ø 2,3 mm HD
	HG 10.008	"Teach" Nozzle Ø 0,25 mm rough edged
	HG 10.225	Nozzle Ø 1,0 mm rough edged
	HG 10.226	Nozzle Ø 1,2 mm rough edged
	HG 10.220	Nozzle Ø 1,4 mm rough edged
	HG 10.221	Nozzle Ø 1,7 mm rough edged

Nozzles with hard chromium plating

Ref.-No.	Order-No.	Description
0212334	HG 10.010/C	Nozzle Ø 1,0 mm **Hard chromium plating**
	HG 10.025/C	Nozzle Ø 1,0 mm HD **Hard chromium plating**
0216199	HG 10.011/C	Nozzle Ø 1,4 mm HD **Hard chromium plating**
0225213	HG 10.012/C	Nozzle Ø 1,7 mm HD **Hard chromium plating**
0126156	HG 10.028/C	Nozzle Ø 2,3 mm HD **Hard chromium plating**
226939	HG 10.013/C	Nozzle Ø 1,0 mm **Hard chromium plating**
	HG 10.026/C	Nozzle Ø 1,0 mm HD **Hard chromium plating**
226940	HG 10.014/C	Nozzle Ø 1,4 mm HD **Hard chromium plating**
227144	HG 10.015/C	Nozzle Ø 1,7 mm HD **Hard chromium plating**
	HG 10.029/C	Nozzle Ø 2,3 mm HD **Hard chromium plating**
0135320	HG 10.016/C	Nozzle Ø 1,0 mm **Hard chromium plating**
0135318	HG 10.017/C	Nozzle Ø 1,4 mm HD **Hard chromium plating**
0126157	HG 10.018/C	Nozzle Ø 1,7 mm HD **Hard chromium plating**
	HG 10.030/C	Nozzle Ø 2,3 mm HD **Hard chromium plating**
	HG 10.225/C	Nozzle Ø 1,0 mm rough edged **Hard chrom.plating**
	HG 10.226/C	Nozzle Ø 1,2 mm rough edged **Hard chrom.plating**
	HG 10.220/C	Nozzle Ø 1,4 mm rough edged **Hard chrom.plating**
	HG 10.221/C	Nozzle Ø 1,7 mm rough edged **Hard chrom.plating**

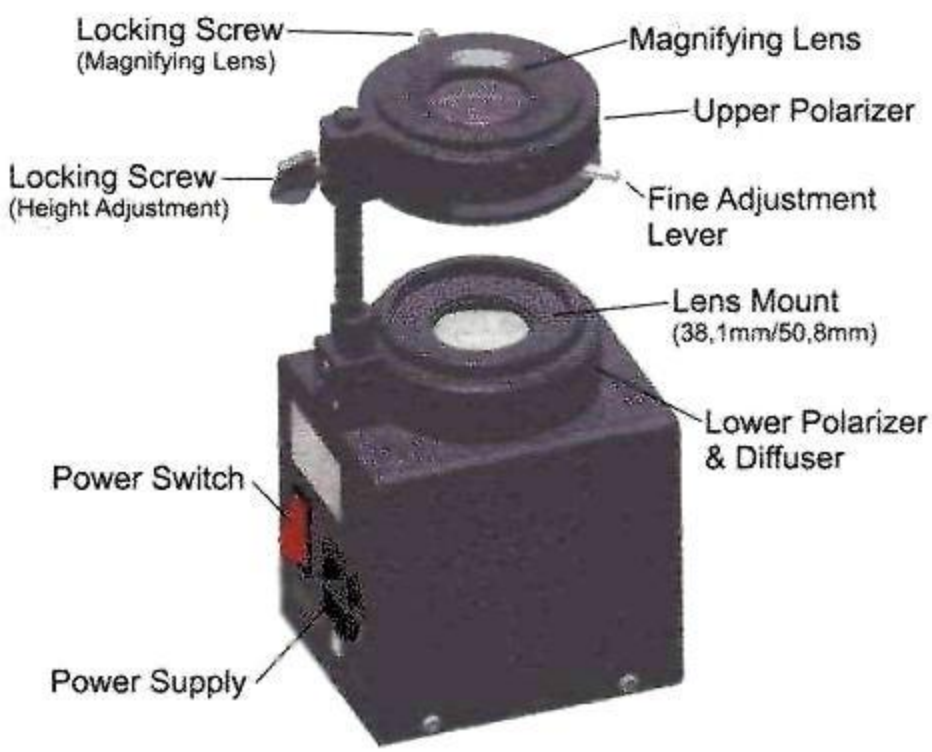
Ref.- No.	Order-No.	Description	
		Consumable suitable for Trumpf Laser TLC 1005	
913965	HG 10.007	Locking nut.....	
		All nozzles packed in boxes of 10	
		Standard copper nozzles	
0958206	HG 10.006	"Teach" Nozzle Ø 0,25 mm.....	
0913799	HG 10.020	Nozzle Ø 0,8 mm HD.....	
0913800	HG 10.021	Nozzle Ø 1,0 mm HD.....	
0913801	HG 10.022	Nozzle Ø 1,4 mm HD.....	
0937988	HG 10.023	Nozzle Ø 1,7 mm HD.....	
0937989	HG 10.024	Nozzle Ø 2,3 mm HD.....	
		Nozzles with hard chromium plating	
0913799	HG 10.020/C	Nozzle Ø 0,8 mm HD **Hard chromium plating**.....	
0913800	HG 10.021/C	Nozzle Ø 1,0 mm HD **Hard chromium plating**.....	
0913801	HG 10.022/C	Nozzle Ø 1,4 mm HD **Hard chromium plating**.....	
0937988	HG 10.023/C	Nozzle Ø 1,7 mm HD **Hard chromium plating**.....	
0937989	HG 10.024/C	Nozzle Ø 2,3 mm HD **Hard chromium plating**.....	
		Consumable suitable for Trumpf Laser 240 / 260	
202952	HG 10.002	Nozzle Ø 0,8 mm.....	
218969	HG 10.003	Nozzle Ø 1,0 mm.....	
209402	HG 10.000	Nozzle Ø 1,4 mm HD.....	
211533	HG 10.001	Nozzle Ø 1,7 mm HD.....	

Ref.-No.	Order-No.	Description	
		Air - Filters suitable for Trumpf	
	HG 10.187	**Air-Filter for cooling aggregate** Size: 1520 x 755 x 8mm, Package with 25 pieces	
	HG 10.188	**Air-Filter for cooling aggregate** Size: 1670 x 660 x 8mm, Package with 25 pieces	
	HG 10.189	**Air-Filter for cooling aggregate** Size: 2420 x 560 x 8mm, Package with 25 pieces	
	HG 10.190	**Air-Filter for cooling aggregate** Size: 1200 x 700 x 8mm, Package with 25 pieces	
	HG 10.191	**Air-Filter for cooling aggregate** Size: 990 x 890 x 8mm, Package with 25 pieces	
		M.P.S **CO_2 - Laser - Lens** **Suitable for Trumpf / TruLaser**	
1383925	HG 10.125/H	ZnSe-Meniscus Lens **6,10"** High Pressure Lens, Ø 40,0 mm Effective Focal Length: 155,0 mm Edge Thickness: 7,6 mm AR/AR for 10,6µm (Absorption <0.20%)	
		M.P.S Polish Polish for laseroptics, 100ml	
	HG 10.174	**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	
	HG 10.173	**Cleaning holder (Teflon) for lenses** ***(to use on both sides)***	
	HG 15.099	with Ø 38.10mm with Ø 50.80mm	

Ref.-No.	Order-No.	Description	
		CO_2 - Laser - Lenses **suitable for Trumpf**	
0346104	HG 10.166/H	ZnSe-Meniscus Lens **3,75"** High Pressure Lens (25 bar), Ø 38,1 mm Effective Focal Length: 95,3 mm Edge Thickness: 7,4 mm AR/AR for 10,6µm (Absorption <0.20%)	
088114	HG 10.167/H	ZnSe-Meniscus Lens **5,00"** High Pressure Lens (25 bar), Ø 38,1 mm Effective Focal Length: 127,0 mm Edge Thickness: 7,4 mm AR/AR for 10,6µm (Absorption <0.20%)	
097517	HG 10.168/H	ZnSe-Meniscus Lens **7,50"** High Pressure Lens (25 bar), Ø 38,1 mm Effective Focal Length: 190,5 mm Edge Thickness: 7,4 mm AR/AR for 10,6µm (Absorption <0.20%)	
0141972	HG 10.169/H	ZnSe-Meniscus Lens **9,00"** High Pressure Lens (25 bar), Ø 38,1 mm Effective Focal Length: 225,0 mm Edge Thickness: 7,4 mm AR/AR for 10,6µm (Absorption <0.20%)	
0350163	HG 10.179/H	ZnSe-Meniscus Lens **10,00"** High Pressure Lens (25 bar), Ø 38,1 mm Effective Focal Length: 254,0 mm Edge Thickness: 7,4 mm AR/AR for 10,6µm (Absorption <0.20%)	
		For a laserpower 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.** **Since the lenses are not black, the function of the lens sensoring system is not interfered (red aiming beam compatible). The degree of dirtiness can be determined by the system.** **M.P.S Ultra Low lenses are appropriately marked on the edge.**	
088114	HG 10.167/HU	ZnSe-Meniscus Lens **5,00"** High Pressure Lens (25 bar), Ø 38,1 mm Effective Focal Length: 127,0 mm Edge Thickness: 7,4 mm **M.P.S Ultra Low** AR/AR for 10,6µm (Absorption <0.15%)	
097517	HG 10.168/HU	ZnSe-Meniscus Lens **7,50"** High Pressure Lens (25 bar), Ø 38,1 mm Effective Focal Length: 190,5 mm Edge Thickness: 7,4 mm **M.P.S Ultra Low** AR/AR for 10,6µm (Absorption <0.15%)	
0141972	HG 10.169/HU	ZnSe-Meniscus Lens **9,00"** High Pressure Lens (25 bar), Ø 38,1 mm Effective Focal Length: 225,0 mm Edge Thickness: 7,4 mm **M.P.S Ultra Low** AR/AR for 10,6µm (Absorption <0.15%)	
0350163	HG 10.179/HU	ZnSe-Meniscus Lens **10,00"** High Pressure Lens (25 bar), Ø 38,1 mm Effective Focal Length: 254,0 mm Edge Thickness: 7,4 mm **M.P.S Ultra Low** AR/AR for 10,6µm (Absorption <0.15%)	

Ref.-No.	Order-No.	Description	
		M.P.S **Accessories for cleaning CO_2 - Laser - Lenses**	
	HG 10.174	**M.P.S Polish** Polish for laseroptics, 100ml	
	HG 10.173	**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	
	HG 15.136	**Latex gloves** (package containing: 100 pcs)	
	HG 15.138	**EM-080 general-purpose cleaning concentrate** Bottle of 500 ml	
	HG 15.099	**Cleaning holder (Teflon) for lenses** ***(to use on both sides)*** with Ø 38.10mm with Ø 50.80mm	

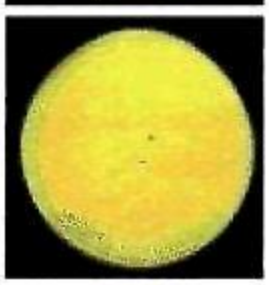
Dirt & Strain Viewer for Lenses and Cleaning Set



Picture 1

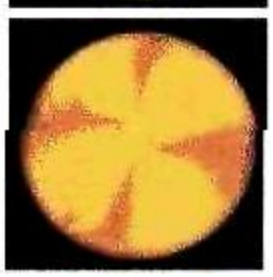
It is easily visible, that this lens is dirty.

Picture 2



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

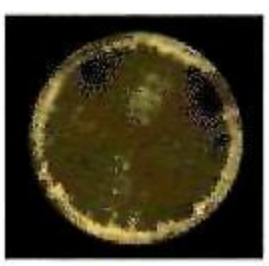
Picture 3



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

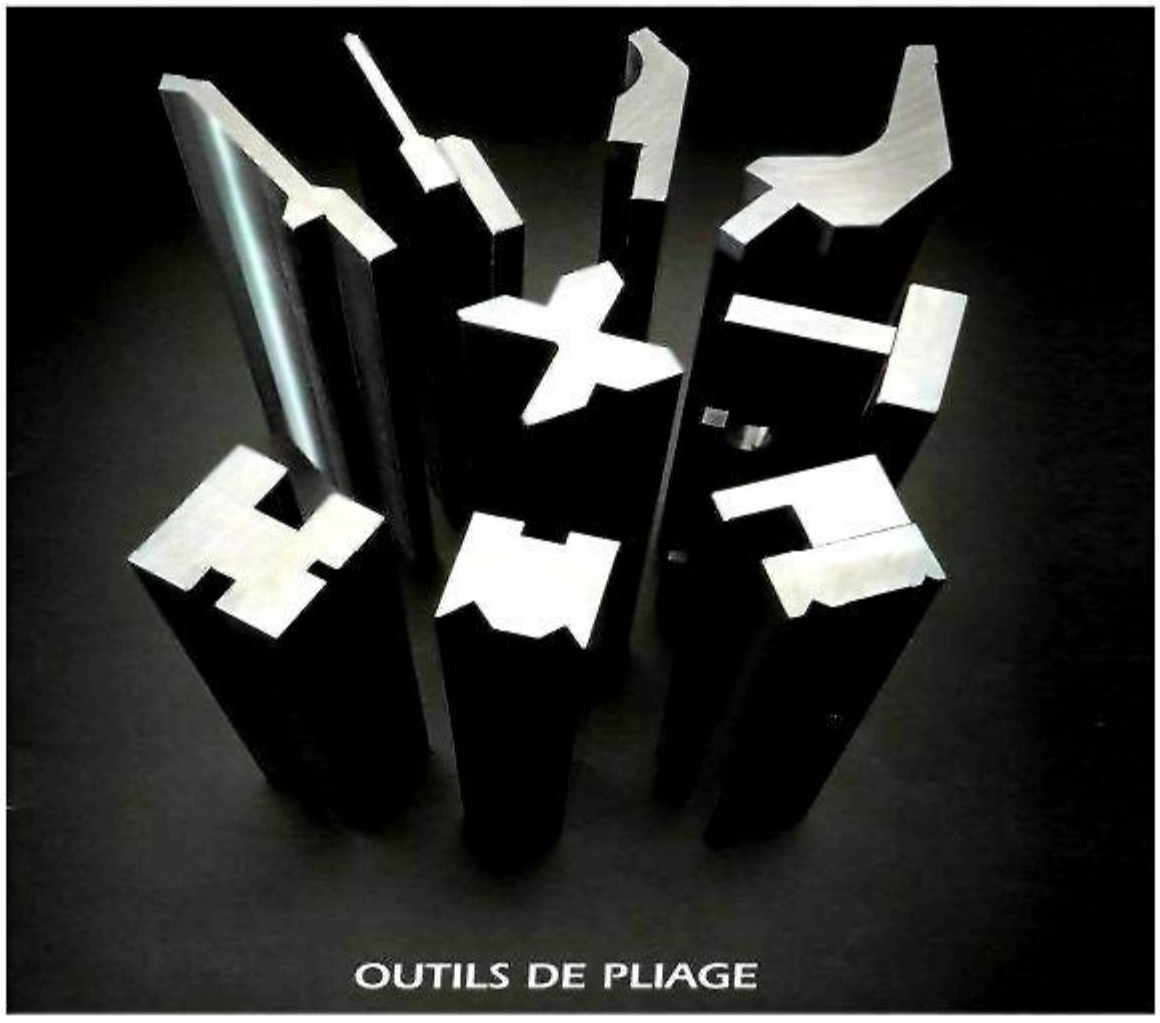
Here we do recommend our M.P.S Ultra Low® - lenses with very low absorption values.

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 .....


OUTILS DE PLIAGE

Poinçons et Matrices pour poinçonneuses CN