

LASER CATALOG

A PROGRESSIVE COMPANY FOR AN EVOLVING MARKET

Over a period of 22 years the Thermacut Group has undergone a multitude of changes. Thermacut (originally Tatra Imports Inc.) was incorporated in Claremont, New Hampshire in 1990 and sold under the brand ZAP Plasmatherm, a reseller of plasma consumables from local vendors directly to end-users. The company began operating with three employees, conducting business through telephone sales. In 1992, the company opened a small manufacturing facility and a sales office in the Czech Republic in 1996 to produce and sell plasma consumables and torches directly into the Eastern European market and through distributors in Western Europe under the brand name Thermacut utilizing both inside and outside sales representatives. And in 1993 the Thermacut brand was introduced into North America and sold through distributors.

In January of 1999 STK Gesellschaft für Schweißtechnik mbH (a holding company 100% owned by the IBG Group of Cologne Germany) purchased 80% of the shares of Thermacut and in 2002 completed the acquisition to become the 100% shareholder of the Thermacut Group.

Since those early and humble beginnings, Thermacut has evolved into a major force in providing plasma torches and consumables through multiple sales channels supported by fourteen sales subsidiaries and with a close partnership with Abicor-Binzel (an IBG owned company) with locations in India, the Middle East, Turkey and Scandinavia. Based on customer demand Thermacut has also introduced TIG/WIG, MIG/MAG and Oxy-fuel products and produces those products at its modern ISO 9001 production facility located in Uherske Hradiste of the Czech Republic.

The Thermacut Group has focused its efforts in providing high quality direct replacement consumable and torch product lines that would meet or exceed the expectations of our valued customers, cutting and welding metals thermally throughout the world. But as our customer base expanded, their expectations and demands also increased, where in 2005 Thermacut expanded its product portfolio with the addition of advanced

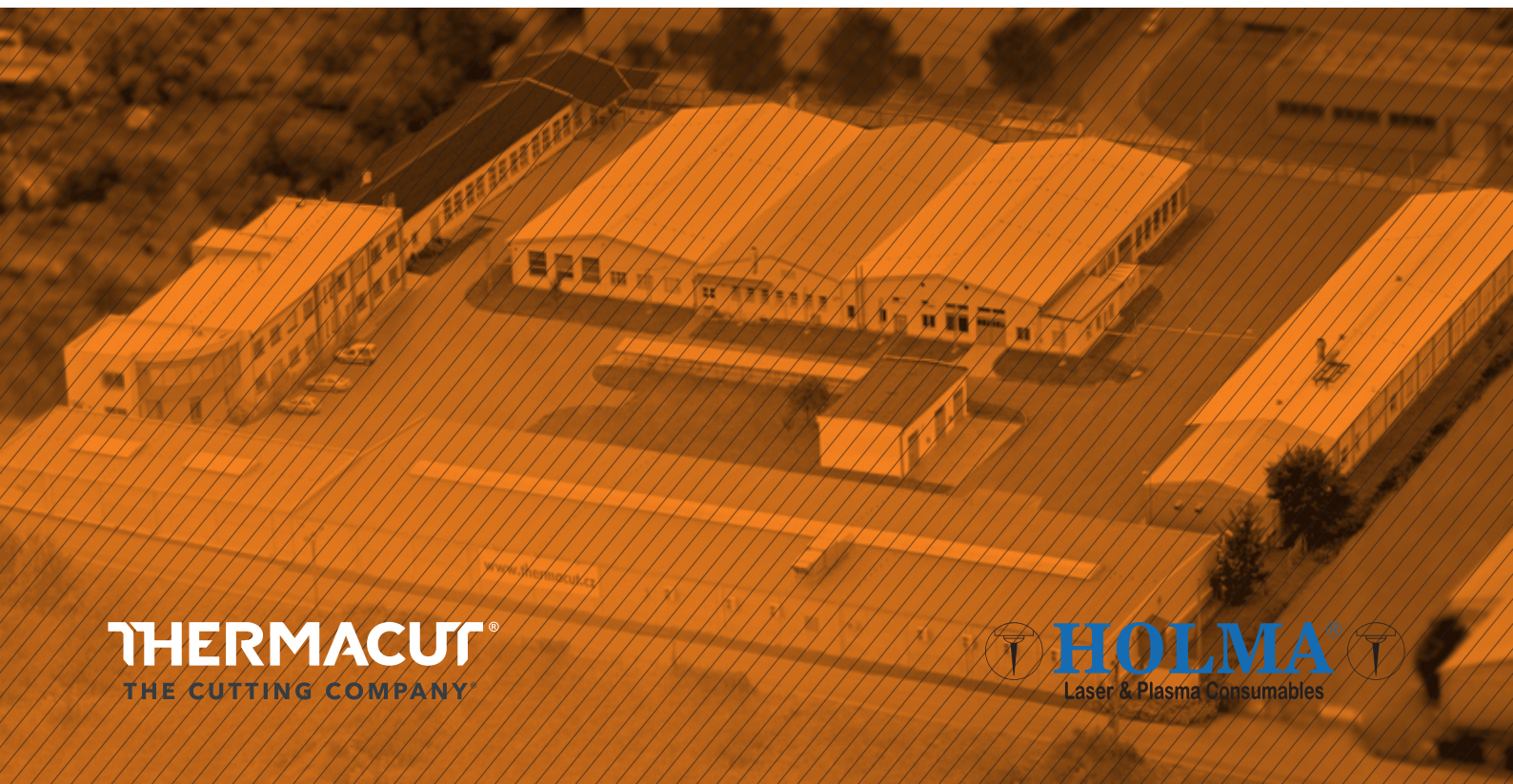
consumables, which have included products such as the Silver Plus™, Silver Pro™ and Silver EX-™ electrodes, plus the patented Tungsten EX-™ nozzles. At that time to signify our advanced products offerings we also updated our corporate image, introducing a new logo, a new orange and black color scheme, and a new slogan: "Advanced Consumables" and a mission to be the Providers of Advanced Cutting and Welding Consumables Worldwide.

Now we as move into the year 2013, the Thermacut Group continue to expand and evolve in the thermal cutting and welding marketplace. In December of 2012 the Thermacut Group concluded the purchase of the HOLMA® AG, a producer of premium quality laser consumables, which will enhance our customer's ongoing requests for a high quality laser consumable brand and a further expansion of Thermacut's plasma cutting and oxy-fuel consumable product portfolio.

In September 2013 at the SCHWEISSEN & SCHNEIDEN Exposition, the Thermacut Group is evolving once again with the introduction of a line of plasma cutting systems for both manual and mechanized plasma processes up to 65 mm thickness. The initial introduction will feature both a 105 and a 125 amp system. Thermacut will also have the 65 and 85 amp systems on display.

During 2014 the complete line of plasma systems will be rolled out on a planned basis, which will range from 30 amps to 125 amps. This change will mark a major commitment to our valued customers throughout the world and thrust Thermacut into the ranks of a full line plasma OEM.

Recognizing this continuing evolution is important, so the Thermacut Group will update its' logo, change its' slogan to "The Cutting Company" and further its' mission by becoming a "Global Provider of Thermal Cutting Technology".



THERMACUT®
THE CUTTING COMPANY™

HOLMA®
Laser & Plasma Consumables

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REPLACEMENT PARTS SUITABLE FOR LASER CUTTING

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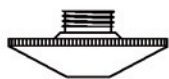
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HOLMA®
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REPLACEMENT PARTS SUITABLE FOR TRUMPF®

PARTS FOR TRUMATIC® L2530®, L3030®, L3050®, L4030®, 6000L®, L6030®, L2503E®, L3003E®, L4003E®, TC 600L®



HG 10.150 - 158



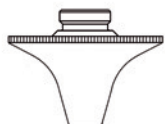
HG 10.152



HG 10.159

Standard copper nozzles / Standard copper nozzles with hard chromium plating

Part No.	Ref. No.	Description	Std. Pkg.	Part No.	Ref. No.	Description	Std. Pkg.
HG 10.150	0124561	Nozzle 0,8mm	10pcs	HG 10.154	0237501	Nozzle 1,7mm	10pcs
HG 10.150/C	0352280	Nozzle 0,8mm HCP	10pcs	HG 10.154/C	0352284	Nozzle 1,7mm HCP	10pcs
HG 10.151	0124562	Nozzle 1,0mm	10pcs	HG 10.155	1253211	Nozzle 2,0mm	10pcs
HG 10.151/C	0352281	Nozzle 1,0mm HCP	10pcs	HG 10.155/C	1253212	Nozzle 2,0mm HCP	10pcs
HG 10.148	0966809	Nozzle 1,2mm	10pcs	HG 10.158	0126933	Nozzle 2,3mm	10pcs
HG 10.148/C	0352282	Nozzle 1,2mm HCP	10pcs	HG 10.158/C	0352285	Nozzle 2,3mm HCP	10pcs
HG 10.152	0237497	Nozzle 1,4 with step	10pcs	HG 10.156	HG 10.156	Nozzle 2,5mm	10pcs
HG 10.152/C	0352283	Nozzle 1,4mm HCP	10pcs	HG 10.149	0942742	Nozzle 2,7mm	10pcs
HG10.159	237497-S	Nozzle 1,4mm with straith taper	10pcs	HG 10.149/C	0352286	Nozzle 2,7mm HCP	10pcs
HG 10.153	237500	Nozzle 1,5mm	10pcs	HG 10.157	0237504	Nozzle 3,0mm	10pcs



HG 10.130-137

Long copper nozzles / Long copper nozzles with hard chromium plating

Part No.	Ref. No.	Description	Std. Pkg.	Part No.	Ref. No.	Description	Std. Pkg.
HG 10.130	1277773	Nozzle 0,8mm	10pcs	HG 10.134	1277779	Nozzle 1,7mm	10pcs
HG 10.130/C	1277773CP	Nozzle 0,8mm HCP	10pcs	HG 10.134/C	1277779CP	Nozzle 1,7mm HCP	10pcs
HG 10.131	1277771	Nozzle 1,0mm	10pcs	HG 10.135	1277780	Nozzle 2,0mm	10pcs
HG 10.131/C	1277771CP	Nozzle 1,0mm HCP	10pcs	HG 10.135/C	1277780CP	Nozzle 2,0mm HCP	10pcs
HG 10.132	1277774	Nozzle 1,2mm	10pcs	HG 10.136	1277781	Nozzle 2,3mm	10pcs
HG 10.132/C	1277774CP	Nozzle 1,2mm HCP	10pcs	HG 10.136/C	1277781CP	Nozzle 2,3mm HCP	10pcs
HG 10.133	1277776	Nozzle 1,4 mm	10pcs	HG 10.137	1277782	Nozzle 2,7mm	10pcs
HG 10.133/C	1277776CP	Nozzle 1,4mm HCP	10pcs	HG 10.137/C	1277782CP	Nozzle 2,7mm HCP	10pcs

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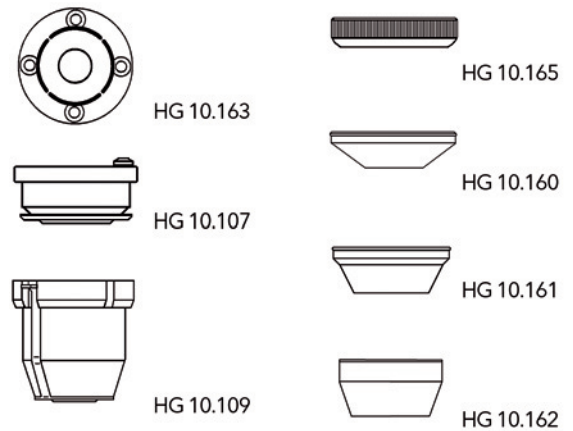
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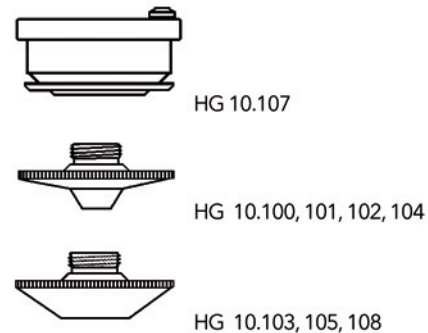
PARTS FOR TRUMATIC® L2530®, L3030®, L3050®, L4030®, 6000L®, L6030®, L2503E®, L3003E®, L4003E®, TC 600L®

Part No.	Ref. No.	Description	Std. Pkg.
HG 10.163	234485	Break away bar	1 pc
HG 10.107	0258809	Ceramic nozzle holder (Lasermatic)	1 pc
HG 10.109	0260432	Ceramic nozzle holder DIAS III	1 pc
HG 10.165	216066	Locking nut	1 pc
HG 10.160	0225286	PTFE cover white (Lasermatic)	1 pc
HG 10.161	254496	PTFE cover white	1 pc
HG 10.162	256153	PTFE cover DIAS III white	1 pc
HG 10.162/1	0955826	PTFE cover DIAS III black	1 pc



PARTS FOR TRUMPF® LASER L1003®, L2503®, L3003®, L4003®

Part No.	Ref. No.	Description	Std. Pkg.
HG 10.107	0258809	Ceramic nozzle holder (Lasermatic)	1 pc
HG 10.100	215780	Nozzle 0,8mm	10 pcs
HG 10.101	087658	Nozzle 1,0mm	10 pcs
HG 10.102	088894	Nozzle 1,4mm high pressure	10 pcs
HG 10.103	217867	Nozzle 1,7mm high pressure	10 pcs
HG 10.104	088893	Nozzle 1,5mm	10 pcs
HG 10.105	221781	Nozzle 2,0mm	10 pcs
HG 10.108	235592	Nozzle 3,0mm	10 pcs
HG 10.112	216065	PTFE cover white	1 pc



PolyTetraFluoroEthylene is a fluorocarbon-based polymer and is commonly abbreviated PTFE. The Teflon® brand of PTFE is manufactured only by DuPont and is not sold by Thermacut. Thermacut purchases other brands of PTFE from various high quality manufacturers.

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REPLACEMENT PARTS SUITABLE FOR TRUMPF®

PARTS FOR TRUMPF® TRULASER® 5030, 5040 AND 5060 (6/7 KW LASER)



HG 10.060-067



HG 10.070-077

Part No.	Ref. No.	Description	Std. Pkg.
HG 10.060	1324858	Nozzle EAA 0,8mm	10pcs
HG 10.061	1324860	Nozzle EAA 1,0mm	10pcs
HG 10.062	1324861	Nozzle EAA 1,2mm	10pcs
HG 10.063	1324863	Nozzle EAA 1,4mm	10pcs
HG 10.064	1324864	Nozzle EAA 1,7mm	10pcs
HG 10.065	1324865	Nozzle EAA 2,0mm	10pcs
HG 10.066	1324866	Nozzle EAA 2,3mm	10pcs
HG 10.067	1324867	Nozzle EAA 2,7mm	10pcs

Part No.	Ref. No.	Description	Std. Pkg.
HG 10.070	1373324	Nozzle EAB 0,8mm	10pcs
HG 10.071	1373325	Nozzle EAB 1,0mm	10pcs
HG 10.072	1373326	Nozzle EAB 1,2mm	10pcs
HG 10.073	1373327	Nozzle EAB 1,4mm	10pcs
HG 10.074	1373328	Nozzle EAB 1,7mm	10pcs
HG 10.075	1373329	Nozzle EAB 2,0mm	10pcs
HG 10.076	1373330	Nozzle EAB 2,3mm	10pcs
HG 10.077	1373331	Nozzle EAB 2,7mm	10pcs

PARTS FOR TRUMPF® LASER TLC 105



HG 10.010



HG 10.019



HG 10.013

Part No.	Ref. No.	Description	Std. Pkg.
HG 10.036	1354230	Nozzle 0,8mm	10pcs
HG 10.036/C	1354230CP	Nozzle 0,8mm HCP	10pcs
HG 10.010	0212334	Nozzle 1,0mm	10pcs
HG 10.010/C	0212334CP	Nozzle 1,0mm HCP	10pcs
HG 10.025	HG 10.025	Nozzle 1,0mm HD	10pcs
HG 10.025/C	HG 10.025CP	Nozzle 1,0mm HD HCP	10pcs
HG 10.011	0216199	Nozzle 1,4mm HD	10pcs
HG 10.011/C	0216199CP	Nozzle 1,4mm HD HCP	10pcs
HG 10.012	0225213	Nozzle 1,7mm HD	10pcs
HG 10.012/C	0225213CP	Nozzle 1,7mm HD HCP	10pcs
HG 10.028	0126156	Nozzle 2,3mm HD	10pcs
HG 10.028/C	0126156CP	Nozzle 2,3mm HD HCP	10pcs
HG 10.019	237364	Shower nozzle 1,0mm	1pc

Part No.	Ref. No.	Description	Std. Pkg.
HG 10.013	226939	Nozzle 1,0mm	10pcs
HG 10.013/C	226939CP	Nozzle 1,0mm HCP	10pcs
HG 10.026	HG 10.026	Nozzle 1,0mm HD	10pcs
HG 10.026/C	HG 10.026CP	Nozzle 1,0mm HD HCP	10pcs
HG 10.014	226940	Nozzle 1,4mm HD	10pcs
HG 10.014/C	226940CP	Nozzle 1,4mm HD HCP	10pcs
HG 10.015	227144	Nozzle 1,7mm HD	10pcs
HG 10.015/C	227144CP	Nozzle 1,7mm HD HCP	10pcs
HG 10.029	HG 10.029	Nozzle 2,3mm HD	10pcs
HG 10.029/C	HG 10.029CP	Nozzle 2,3mm HD HCP	10pcs
HG 10.033	HG 10.033	Nozzle 2,0mm HD	10pcs

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REPLACEMENT PARTS SUITABLE FOR TRUMPF®

PARTS FOR TRUMPF® LASER TLC 105



HG 10.016-018, 030



HG 10.220-226

Part No.	Ref. No.	Description	Std. Pkg.
HG 10.016	HG 10.016	Nozzle 1,0mm	10pcs
HG 10.016/C	HG 10.016CP	Nozzle 1,0mm HCP	10pcs
HG 10.017	HG 10.017	Nozzle 1,4mm HD	10pcs
HG 10.017/C	HG 10.017CP	Nozzle 1,4mm HD HCP	10pcs
HG 10.018	HG 10.018	Nozzle 1,7mm HD	10pcs
HG 10.018/C	HG 10.018CP	Nozzle 1,7mm HD HCP	10pcs
HG 10.030	HG 10.030	Nozzle 2,3mm HD	10pcs
HG 10.030/C	HG 10.030CP	Nozzle 2,3mm HD HCP	10pcs
HG 10.008	HG 10.008	Teach nozzle 0,25mm RE	1pc

Part No.	Ref. No.	Description	Std. Pkg.
HG 10.225	0135320	Nozzle 1,0mm RE	10pcs
HG 10.225CP	0135320CP	Nozzle 1,0mm RE HCP	10pcs
HG 10.226	HG 10.226	Nozzle 1,2mm RE	10pcs
HG 10.226CP	HG 10.226/C	Nozzle 1,2mm RE HCP	10pcs
HG 10.220	0135318	Nozzle 1,4mm RE	10pcs
HG 10.220CP	0135318CP	Nozzle 1,4mm RE HCP	10pcs
HG 10.221	0126157	Nozzle 1,7mm RE	10pcs
HG 10.221CP	0126157CP	Nozzle 1,7mm RE HCP	10pcs

PARTS FOR TRUMPF® LASER TLC 1005



HG 10.006-024

Part No.	Ref. No.	Description	Std. Pkg.	Part No.	Ref. No.	Description	Std. Pkg.
HG 10.006	0958206	Teach nozzle 0,25mm	1pc	HG 10.022/C	0913801CP	Nozzle 1,4mm HD HCP	10pcs
HG 10.020	0913799	Nozzle 0,8mm HD	10pcs	HG 10.023	0937988	Nozzle 1,7mm HD	10pcs
HG 10.020/C	0913799CP	Nozzle 0,8mm HD HCP	10pcs	HG 10.023/C	0937988CP	Nozzle 1,7mm HD HCP	10pcs
HG 10.021	0913800	Nozzle 1,0mm HD	10pcs	HG 10.024	0937989	Nozzle 2,3mm HD	10pcs
HG 10.021/C	0913800CP	Nozzle 1,0mm HD HCP	10pcs	HG 10.024/C	0937989CP	Nozzle 2,3mm HD HCP	10pcs
HG 10.022	0913801	Nozzle 1,4mm HD	10pcs				

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REPLACEMENT PARTS SUITABLE FOR TRUMPF®

LENSES SUITABLE FOR TRUMPF®

Part No.	Ref. no.	Description	Std. Pkg.	Part No.	Ref. no.	Description	Std. Pkg.
HG 10.166/H	346104	3,75" ZnSe Meniscus lens	1 pc	HG 10.167/HU	88114	7,50" ZnSe Meniscus lens - ULTRA LOW	1 pc
		High pressure lens (29bar), 38,1mm				High pressure lens (29bar), 38,1mm	
		Effective focal length: 95,3mm				Effective focal length: 127,0mm	
		Edge thickness: 7,4mm				Edge thickness: 7,4mm	
		AR/AR for 10,6um (absorption <0.20%)				AR/AR for 10,6um (absorption <0.12%)	
HG 10.167/H	88114	5,00" ZnSe Meniscus lens	1 pc	HG 10.168/HU	97517	7,50" ZnSe Meniscus lens - ULTRA LOW	1 pc
		High pressure lens (29bar), 38,1mm				High pressure lens (29bar), 38,1mm	
		Effective focal length: 127,0mm				Effective focal length: 190,5mm	
		Edge thickness: 7,4mm				Edge thickness: 7,4mm	
		AR/AR for 10,6um (absorption <0.20%)				AR/AR for 10,6um (absorption <0.12%)	
HG 10.168/H	97517	7,50" ZnSe Meniscus lens	1 pc	HG 10.169/HU	141972	9,00" ZnSe Meniscus lens - ULTRA LOW	
		High pressure lens (29bar), 38,1mm				High pressure lens (29bar), 38,1mm	
		Effective focal length: 190,5mm				Effective focal length: 225,0mm	
		Edge thickness: 7,4mm				Edge thickness: 7,4mm	
		AR/AR for 10,6um (absorption <0.20%)				AR/AR for 10,6um (absorption <0.12%)	
HG 10.169/H	141972	9,00" ZnSe Meniscus lens	1 pc	HG 10.179/HU	350163	10,00" ZnSe Meniscus lens - ULTRA LOW	
		High pressure lens (29bar), 38,1mm				High pressure lens (29bar), 38,1mm	
		Effective focal length: 225,0mm				Effective focal length: 254,0mm	
		Edge thickness: 7,4mm				Edge thickness: 7,4mm	
		AR/AR for 10,6um (absorption <0.20%)				AR/AR for 10,6um (absorption <0.12%)	
HG 10.179/H	350163	10,00" ZnSe Meniscus lens	1 pc				
		High pressure lens (29bar), 38,1mm					
		Effective focal length: 254,0mm					
		Edge thickness: 7,4mm					
		AR/AR for 10,6um (absorption <0.20%)					

ACCESSORIES SUITABLE FOR TRUMPF®

Part No.	Ref. No.	Description	Std. Pkg.
HG 10.174	HG 10.174	Polish for laser optics, 100ml	1 pc
HG 10.173	HG 10.173	Lens cleaning paper from Tiffen, sheet size 70x115mm	50pcs
HG 15.136	HG 15.136	Latex gloves	100pcs
HG 15.138	HG 15.138	EM-080 general purpose cleaning concentrate, 500ml	1 pc
HG 15.099	HG 15.099	Cleaning holder (PTFE) for lenses (to use on both sides), 38,1mm or 50,8mm	1 pc

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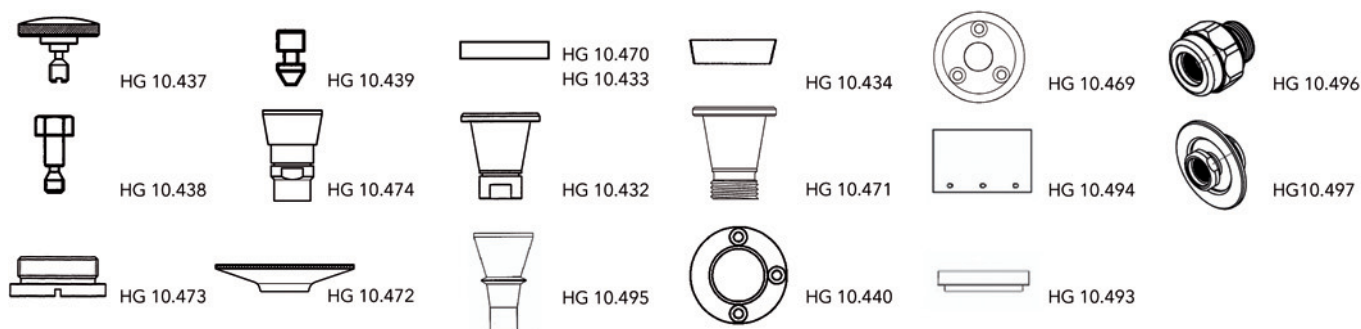
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REPLACEMENT PARTS SUITABLE FOR BYSTRONIC®

PARTS FOR BYSTRONIC® "BY" SERIES



Part No.	Ref. No.	Description	Std. Pkg.	Part No.	Ref. No.	Description	Std. Pkg.
HG 10.437	4-03136	Knurled screw	1pc	HG 10.470	4-09010	Ceramic	1pc
HG 10.438	4-00324	Knurled screw	1pc	HG 10.472	2-08700	Shield (copper)	1pc
HG 10.439	4-03137	Pln	1pc	HG 10.493	3-13113	Insulating ring (small)	1pc
HG 10.474	3-02291	Nozzle body	1pc	HG 10.495	2-10837	Nozzle body	1pc
HG 10.433	4-01642	Insulating ring - ceramic	1pc	HG 10.494	3-13422	Insulating ring (large)	1pc
HG 10.432	3-05497	Nozzle body	1pc	HG 10.440	3-06035	Insulating disc (PTFE)	1pc
HG 10.434	4-01959	Conical ceramic	1pc	HG 10.469	3-03663	Insulating disc (PTFE) - old.ref.	1pc
HG 10.471	2-08701	Nozzle body	1pc	HG 10.496	10055576	Nozzle holder BySprint	1pc
HG 10.473	3-11071	Fastener nut	1pc	HG 10.497	10051133	Nozzle holder BySprint	1pc

PARTS FOR BYSTRONIC® "BY" SERIES



HG 10.403-405



HG 10.408-412



HG 10.413-417

Part No.	Ref. No.	Description	Std. Pkg.	Part No.	Ref. No.	Description	Std. Pkg.
HG 10.403	3-01894	Nozzle 1,0mm - 10	10pcs	HG 10.410/C	3-01901CP	Nozzle 1,50mm - H15 - HCP	10pcs
HG 10.403/C	3-01894CP	Nozzle 1,0mm - 10 - HCP	10pcs	HG 10.411	3-01902	Nozzle 1,75mm - H17	10pcs
HG 10.404	3-01895	Nozzle 1,25mm - 12	10pcs	HG 10.411/C	3-01902CP	Nozzle 1,75mm - H17 - HCP	10pcs
HG 10.404/C	3-01895CP	Nozzle 1,25mm - 12 - HCP	10pcs	HG 10.412	3-01903	Nozzle 2,0mm - H20	10pcs
HG 10.405	3-01896	Nozzle 1,50mm - 15	10pcs	HG 10.412/C	3-01903CP	Nozzle 2,0mm - H20 - HCP	10pcs
HG 10.405/C	3-01896CP	Nozzle 1,50mm - 15 - HCP	10pcs	HG 10.413	3-01905	Nozzle 1,0mm - K10	10pcs
HG 10.408	3-01899	Nozzle 1,00mm - H10	10pcs	HG 10.413/C	3-01905CP	Nozzle 1,0mm - K10 - HCP	10pcs
HG 10.408/C	3-01899CP	Nozzle 1,00mm - H10 - HCP	10pcs	HG 10.414	3-01906	Nozzle 1,25mm - K10	10pcs
HG 10.409	3-01900	Nozzle 1,25mm - H12	10pcs	HG 10.414/C	3-01906CP	Nozzle 1,25mm - K10 - HCP	10pcs
HG 10.409/C	3-01900CP	Nozzle 1,25mm - H12 - HCP	10pcs	HG 10.415	3-01907	Nozzle 1,50mm - K15	10pcs
HG 10.410	3-01901	Nozzle 1,50mm - H15	10pcs	HG 10.415/C	3-01907CP	Nozzle 1,50mm - K15 - HCP	10pcs

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REPLACEMENT PARTS SUITABLE FOR BYSTRONIC®

PARTS FOR BYSTRONIC® "BY" SERIES



HG 10.414-424

Standard copper nozzles / Standard copper nozzles with hard chromium plating

Part No.	Ref. No.	Description	Std. Pkg.	Part No.	Ref. No.	Description	Std. Pkg.
HG 10.416	3-01908	Nozzle 1,75mm- K17	10pcs	HG 10.420/C	3-01912CP	Nozzle 1,50mm- HK 15 - HCP	10pcs
HG 10.416/C	3-01908CP	Nozzle 1,75mm- K17 - HCP	10pcs	HG 10.421	3-01913	Nozzle 1,75mm- HK17	10pcs
HG 10.417	3-01909	Nozzle 2,00mm- K20	10pcs	HG 10.421/C	3-01913CP	Nozzle 1,75mm- HK17 - HCP	10pcs
HG 10.417/C	3-01909CP	Nozzle 2,00mm- K20 - HCP	10pcs	HG 10.422	3-01914	Nozzle 2,0mm- HK20	10pcs
HG 10.426	3-04274	Nozzle 2,25mm- K25	10pcs	HG 10.422/C	3-01914CP	Nozzle 2,0mm- HK20 - HCP	10pcs
HG 10.426/C	3-04274CP	Nozzle 2,25mm- K25 - HCP	10pcs	HG 10.423	3-03854	Nozzle 2,5mm- HK25	10pcs
HG 10.418	3-01910	Nozzle 1,00mm- HK10	10pcs	HG 10.423/C	3-03854CP	Nozzle 2,5mm- HK25 - HCP	10pcs
HG 10.418/C	3-01910CP	Nozzle 1,00mm- HK10 - HCP	10pcs	HG 10.425	3-06112	Nozzle 3,0mm- HK30	10pcs
HG 10.419	3-01911	Nozzle 1,25mm- HK 12	10pcs	HG 10.425/C	3-06112CP	Nozzle 3,0mm- HK30 - HCP	10pcs
HG 10.419/C	3-01911CP	Nozzle 1,25mm- HK 12 - HCP	10pcs	HG 10.424	HG 10.424	Nozzle 3,50mm- HK35	10pcs
HG 10.420	3-01912	Nozzle 1,50mm- HK 15	10pcs	HG 10.424/C	HG 10.424CP	Nozzle 3,50mm- HK35 - HCP	10pcs



HG 10.428/D-434/D



HG 10.418/D-424/D

Standard double copper nozzles / Standard double copper nozzles with hard chromium plating

Part No.	Ref. No.	Description	Std. Pkg.	Part No.	Ref. No.	Description	Std. Pkg.
HG 10.428/D	3-16058	Nozzle 1,00mm- NK10	10pcs	HG 10.418/D	3-16058CP	Nozzle 1,00mm- NK10 - HCP	10pcs
HG 10.429/D	3-16059	Nozzle 1,20mm- NK12	10pcs	HG 10.419/D	3-16059CP	Nozzle 1,20mm- NK12 - HCP	10pcs
HG 10.430/D	3-16060	Nozzle 1,50mm- NK15	10pcs	HG 10.420/D	3-16060CP	Nozzle 1,50mm- NK15 - HCP	10pcs
HG 10.431/D	3-14317	Nozzle 1,70mm- NK17	10pcs	HG 10.421/D	3-14317CP	Nozzle 1,70mm- NK17 - HCP	10pcs
HG 10.432/D	3-14318	Nozzle 2,00mm- NK20	10pcs	HG 10.422/D	3-14318CP	Nozzle 2,00mm- NK20 - HCP	10pcs
HG 10.433/D	3-14319	Nozzle 2,50mm- NK25	10pcs	HG 10.423/D	3-14319CP	Nozzle 2,50mm- NK25 - HCP	10pcs
HG 10.433/A	3-16256	Nozzle 2,50mm- NK25 - AL	10pcs	HG 10.423/A	3-16256CP	Nozzle 2,50mm- NK25 - AL - HCP	10pcs
HG 10.435/D	3-16061	Nozzle 3,00mm- NK30	10pcs	HG 10.425/D	3-16061CP	Nozzle 3,00mm- NK30 - HCP	10pcs
HG 10.435/A	3-16257	Nozzle 3,00mm- NK30 - AL	10pcs	HG 10.425/A	3-16257CP	Nozzle 3,00mm- NK30 - AL - HCP	10pcs
HG 10.434/D	HG 10.434/D	Nozzle 3,50mm- NK35	10pcs	HG 10.424/D	HG 10.434DCP	Nozzle 3,50mm- NK35 - HCP	10pcs

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REPLACEMENT PARTS SUITABLE FOR BYSTRONIC®

LENSES SUITABLE FOR BYSTRONIC®

Part No.	Ref. No.	Description	Std. Pkg.
HG 10.730/H	4-00185	3,75" ZnSe Meniscus lens High pressure lens (20bar), 38,1mm Effective focal length: 95,3mm Edge thickness: 6,0 mm AR/AR for 10,6um (absorption <0.20%)	1pc
HG 10.731/H	4-00186	5,00" ZnSe Meniscus lens High pressure lens (20bar), 38,1mm Effective focal length: 127,0mm Edge thickness: 6,0 mm AR/AR for 10,6um (absorption <0.20%)	1pc
HG 10.732/H	4-00187	7,50" ZnSe Meniscus lens High pressure lens (20bar), 38,1mm Effective focal length: 190,5mm Edge thickness: 6,0 mm AR/AR for 10,6um (absorption <0.20%)	1pc
HG 10.729/H	4-10736	3,75" ZnSe Meniscus lens High pressure lens (42bar), 38,1mm Effective focal length: 95,3mm Edge thickness: 9,0mm AR/AR for 10,6um (absorption <0.20%)	1pc

Part No.	Ref. No.	Description	Std. Pkg.
HG 10.733/H	4-05094	5,00" ZnSe Meniscus lens High pressure lens (42bar), 38,1mm Effective focal length: 127,0mm Edge thickness: 9,0mm AR/AR for 10,6um (absorption <0.20%)	1pc
HG 10.734/H	4-05095	7,50" ZnSe Meniscus lens High pressure lens (42bar), 38,1mm Effective focal length: 190,5mm Edge thickness: 9,0mm AR/AR for 10,6um (absorption <0.20%)	1pc
HG 10.733/HU	4-07475	5,00" ZnSe Meniscus lens - ULTRA LOW High pressure lens (42bar), 38,1mm Effective focal length: 127,0mm Edge thickness: 9,0mm AR/AR for 10,6um (absorption <0.15%)	1pc
HG 10.734/HU	4-07476	7,50" ZnSe Meniscus lens - ULTRA LOW High pressure lens (42bar), 38,1mm Effective focal length: 190,5mm Edge thickness: 9,0mm AR/AR for 10,6um (absorption <0.15%)	1pc

ACCESSORIES SUITABLE FOR BYSTRONIC®

Part No.	Ref. No.	Description	Std. Pkg.
HG 10.174	HG 10.174	Polish for laser optics, 100ml	1pc
HG 10.173	HG 10.173	Lens cleaning paper from Tiffen, sheet size 70x115mm	50pcs
HG 15.136	HG 15.136	Latex gloves	100pcs
HG 15.138	HG 15.138	EM-080 general purpose cleaning concentrate, 500ml	1pc
HG 15.099	HG 15.099	Cleaning holder (PTFE) for lenses (to use on both sides), 38,1mm or 50,8mm	1pc

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AIR FILTERS SUITABLE FOR TRUMPF®

Part No.	Ref. No.	Description	Std. Pkg.	Part No.	Ref. No.	Description	Std. Pkg.
HG 10.178	HG 10.178	Air filter for cooling aggregate size: 2420 x 550 x 8mm	25pcs	HG 10.190	HG 10.190	Air filter for cooling aggregate size: 1200 x 700 x 8mm	25pcs
HG 10.187	HG 10.187	Air filter for cooling aggregate size: 1520 x 755 x 8mm	25pcs	HG 10.191	HG 10.191	Air filter for cooling aggregate size: 990 x 890 x 8mm	25pcs
HG 10.188	HG 10.188	Air filter for cooling aggregate size: 1670 x 660 x 8mm	25pcs	HG 11.175	HG 11.175	Air filter for cooling aggregate size: 670 x 1200 x 8mm	25pcs
HG 11.188	HG 11.188	Air filter for cooling aggregate size: 1670 x 620 x 8mm	25pcs	HG 11.178	HG 11.178	Air filter for cooling aggregate size: 2500 x 1710 x 8mm	5pcs
HG 10.189	HG 10.189	Air filter for cooling aggregate size: 2420 x 560 x 8mm	25pcs	HG 11.187	HG 11.187	Air filter for cooling aggregate size: 1530 x 1530 x 8mm	5pcs
HG 11.174	HG 11.174	Air filter for cooling aggregate size: 3000 x 1800 x 8mm	5pcs	HG 10.176	HG 10.176	Air filter for cooling aggregate size: 800 x 600 x 8mm	25pcs

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REPLACEMENT PARTS SUITABLE FOR BYSTRONIC®

AIR FILTERS SUITABLE FOR BYSTRONIC®

Part No.	Ref. No.	Description	Std. Pkg.	Part No.	Ref. No.	Description	Std. Pkg.
HG 10.175	HG 10.175	Air filter for cooling aggregate size: 400 x 600 x 8mm	25pcs	HG 11.179	HG 11.179	Air filter for cooling aggregate size: 600 x 1200 x 8mm	25pcs
HG 10.176	HG 10.176	Air filter for cooling aggregate size: 800 x 600 x 8mm	25pcs	HG 11.176	HG 11.176	Air filter for cooling aggregate size: 1050 x 1050 x 8mm	25pcs

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REPLACEMENT PARTS SUITABLE FOR LVD®

PARTS FOR LVD® LASER



HG 10.202-249

Standard copper nozzles / Standard copper nozzles with hard chromium plating

Part No.	Ref. No.	Description	Std. Pkg.	Part No.	Ref. No.	Description	Std. Pkg.
HG 10.202	D5241993	Nozzle 0,8 mm (inside cylindrical)	10 pcs	HG 10.202/C	D5241993CP	Nozzle 0,8 mm HCP (inside cyl.)	10 pcs
HG 10.250	D7945470	Nozzle 1,0 mm (inside cylindrical)	10 pcs	HG 10.250/C	D7945470CP	Nozzle 1,0 mm HCP (inside cyl.)	10 pcs
HG 10.204	D5241982	Nozzle 1,2 mm (inside cylindrical)	10 pcs	HG 10.204/C	D5241982CP	Nozzle 1,2 mm HCP (inside cyl.)	10 pcs
HG 10.251	D7945434	Nozzle 1,5 mm (inside cylindrical)	10 pcs	HG 10.251/C	D7945434CP	Nozzle 1,5 mm HCP (inside cyl.)	10 pcs
HG 10.252	D7945452	Nozzle 2,0 mm (inside cylindrical)	10 pcs	HG 10.252/C	D7945452CP	Nozzle 2,0 mm HCP (inside cyl.)	10 pcs
HG 10.257	D7945517	Nozzle 2,5 mm (inside cylindrical)	10 pcs	HG 10.257/C	D7945517CP	Nozzle 2,5 mm HCP (inside cyl.)	10 pcs
HG 10.258	D5241863	Nozzle 1,0 mm (inside conical)	10 pcs	HG 10.258/C	D5241863CP	Nozzle 1,0 mm HCP (inside con.)	10 pcs
HG 10.203	HG 10.203	Nozzle 1,2 mm (inside conical)	10 pcs	HG 10.203/C	HG10.203CP	Nozzle 1,2 mm HCP (inside con.)	10 pcs
HG 10.259	D5241862	Nozzle 1,5 mm (inside conical)	10 pcs	HG 10.259/C	D5241862CP	Nozzle 1,5 mm HCP (inside con.)	10 pcs
HG 10.254	D5241855	Nozzle 2,0 mm (inside conical)	10 pcs	HG 10.254/C	D5241855CP	Nozzle 2,0 mm HCP (inside con.)	10 pcs
HG 10.253	D5241856	Nozzle 2,5 mm (inside conical)	10 pcs	HG 10.253/C	D5241856CP	Nozzle 2,5 mm HCP (inside con.)	10 pcs
HG 10.255	D5241857	Nozzle 3,0 mm (inside conical)	10 pcs	HG 10.255/C	D5241857CP	Nozzle 3,0 mm HCP (inside con.)	10 pcs
HG 10.256	D5241877	Nozzle 3,5 mm (inside conical)	10 pcs	HG 10.256/C	D5241877CP	Nozzle 3,5 mm HCP (inside con.)	10 pcs
HG 10.249	D5241878	Nozzle 4,0 mm (inside conical)	10 pcs	HG 10.249/C	D5241878CP	Nozzle 4,0 mm HCP (inside con.)	10 pcs

LENSES SUITABLE FOR LVD®

Part No.	Ref. No.	Description	Std. Pkg.	Part No.	Ref. No.	Description	Std. Pkg.
HG 10.167/H	29100023	5,00" ZnSe Meniscus lens High pressure lens (29bar), 38,1mm Effective focal length: 127,0mm Edge thickness: 7,4 mm AR/AR for 10,6um (absorption <0.20%)	1pc	HG 10.621/H	29100055	7,50" ZnSe Meniscus lens High pressure lens (28bar), 50,8mm Effective focal length: 190,5mm Edge thickness: 9,7 mm AR/AR for 10,6um (absorption <0.24%)	1pc
HG 10.168/H	29100030	7,50" ZnSe Meniscus lens High pressure lens (29bar), 38,1mm Effective focal length: 190,5mm Edge thickness: 7,4 mm AR/AR for 10,6um (absorption <0.20%)	1pc	HG 15.003/H	HG 15.003/H	7,50" ZnSe Plano-convex lens High pressure lens (28bar), 50,8mm Effective focal length: 190,5mm Edge thickness: 9,7 mm AR/AR for 10,6um (absorption <0.24%)	1pc

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REPLACEMENT PARTS SUITABLE FOR LVD®

LENSES SUITABLE FOR LVD®

Part No.	Ref. No.	Description	Std. Pkg.	Part No.	Ref. No.	Description	Std. Pkg.
HG 10.622/H	29100061UL	10,00" ZnSe Meniscus lens High pressure lens (28bar), 50,8mm Effective focal length: 254,0mm Edge thickness: 9,7 mm AR/AR for 10,6um (absorption <0.24%)	1pc	HG 10.621/HU	29100055UL	7,50" ZnSe Men. lens - ULTRA LOW High pressure lens (29bar), 50,8mm Effective focal length: 190,5mm Edge thickness: 9,7 mm AR/AR for 10,6um (absorption <0.15%)	1pc
HG 10.167/HU	29100023UL	5,00" ZnSe Men. lens - ULTRA LOW High pressure lens (29bar), 38,1mm Effective focal length: 127,0mm Edge thickness: 7,4 mm AR/AR for 10,6um (absorption <0.12%)	1pc	HG 15.003/HU	HG 15.003/HU	7,50" ZnSe Plano-con. - ULTRA LOW High pressure lens (28bar), 50,8mm Effective focal length: 190,5mm Edge thickness: 9,7 mm AR/AR for 10,6um (absorption <0.15%)	1pc
HG 10.168/HU	29100030UL	7,50" ZnSe Men. lens - ULTRA LOW High pressure lens (29bar), 38,1mm Effective focal length: 190,5mm Edge thickness: 7,4 mm AR/AR for 10,6um (absorption <0.12%)	1pc	HG 10.622/HU	29100061UL	10,00" ZnSe Men. lens - ULTRA LOW High pressure lens (28bar), 50,8mm Effective focal length: 254,0mm Edge thickness: 9,7 mm AR/AR for 10,6um (absorption <0.15%)	1pc

ACCESSORIES SUITABLE FOR LVD®

Part No.	Ref. No.	Description	Std. Pkg.
HG 10.174	HG 10.174	Polish for laser optics, 100ml	1pc
HG 10.173	HG 10.173	Lens cleaning paper from Tiffen, sheet size 70x115mm	50pcs

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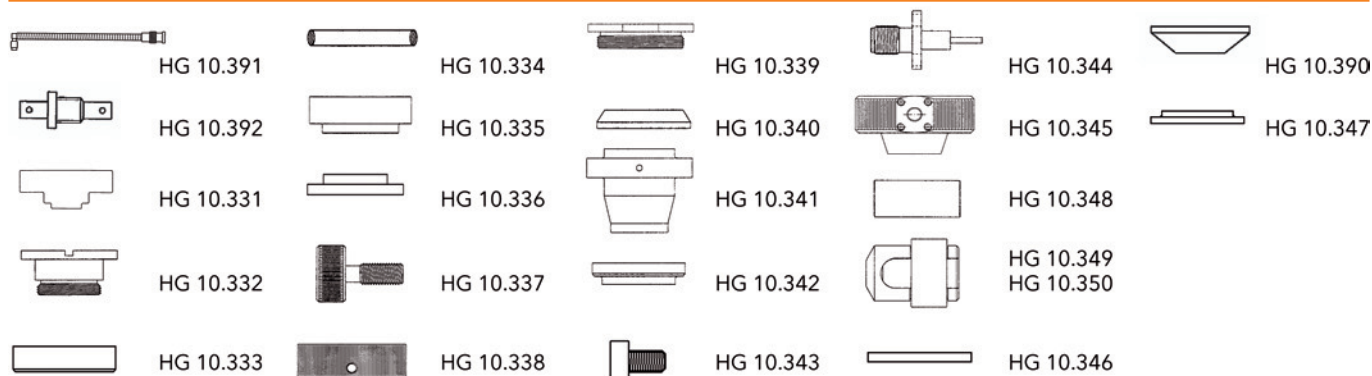
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REPLACEMENT PARTS SUITABLE FOR MAZAK®

**MAZAK® XT510 HI-PRO, NTX48, TURBO 10KW, SUPER TURBO 15KW,
SUPER TURBO HI-PRO 20KW, SUPER TURBO X510 HI-PRO**



Part No.	Ref. No.	Description	Std. Pkg.	Part No.	Ref. No.	Description	Std. Pkg.
HG 10.330	HG 10.330	Complete nozzle holder	1 pc	HG 10.342	46683301130	PTFE spacer 24 × 4mm	1 pc
HG 10.391	46683301980	Connecting cable for sensor head	1 pc	HG 10.345	46683301140	Housing	1 pc
HG 10.392	46683301400	Cable adapter	1 pc	HG 10.344	46683301170	Connector	1 pc
HG 10.331	46683301230	Plate	1 pc	HG 10.343	46683300000	Screw M2,5 × 4mm	1 pc
HG 10.332	46683301110	Bracket	1 pc	HG 10.348	46683301850	PTFE fastener	1 pc
HG 10.333	46683301080	PTFE spacer 27 × 5,5mm	1 pc	HG 10.349	46683301860	Cable holder	1 pc
HG 10.334	46603350001	O-Ring 31 × 2mm	1 pc	HG 10.350	46683301870	Cover	1 pc
HG 10.335	46683301070	Base	1 pc	HG 10.346	46683301150	PTFE spacer 17 × 1,5mm	1 pc
HG 10.336	46683301090	PTFE spacer 30 × 4mm	1 pc	HG 10.390	46683301930	PTFE spacer	1 pc
HG 10.337	46683300032	Screw M5 × 0,5mm	1 pc	HG 10.347	46683301160	Ring	1 pc
HG 10.338	46683300930	Ring	1 pc	HG 10.353	HG 10.353	Complete nozzle holder	1 pc
HG 10.339	46683301100	Bracket	1 pc	HG 10.355	46523300080	Base	1 pc
HG 10.340	46683301120	PTFE spacer 24 × 3mm	1 pc	HG 10.304	46603350510	Nozzle-adapter	1 pc
HG 10.341	46683300850	Nozzle holder	1 pc	HG 10.311	46683300030	Retainer	1 pc



HG 10.650-659



HG 10.650/C-659/C

Standard copper nozzles / Standard copper nozzles with hard chromium plating

Part No.	Ref. No.	Description	Std. Pkg.	Part No.	Ref. No.	Description	Std. Pkg.
HG 10.650	46683301950-0.8	Nozzle 0,8 mm	10 pcs	HG 10.650/C	46683301950-08CP	Nozzle 0,8 mm HCP	10 pcs
HG 10.651	46683301950-1.0	Nozzle 1,0 mm	10 pcs	HG 10.651/C	4668330195010CP	Nozzle 1,0 mm HCP	10 pcs
HG 10.652	46683301950-1.2	Nozzle 1,2 mm	10 pcs	HG 10.652/C	4668330195012CP	Nozzle 1,2 mm HCP	10 pcs
HG 10.653	46683301950	Nozzle 1,5 mm	10 pcs	HG 10.653/C	46683301950CP	Nozzle 1,5 mm HCP	10 pcs
HG 10.654	46683301821	Nozzle 2,0 mm	10 pcs	HG 10.654/C	46683301821CP	Nozzle 2,0 mm HCP	10 pcs
HG 10.655	46683301821-2.2	Nozzle 2,2 mm	10 pcs	HG 10.655/C	4668330182122CP	Nozzle 2,2 mm HCP	10 pcs
HG 10.656	46683301960	Nozzle 2,5 mm	10 pcs	HG 10.656/C	46683301960CP	Nozzle 2,5 mm HCP	10 pcs
HG 10.657	46683301970	Nozzle 3,0 mm	10 pcs	HG 10.657/C	46683301970CP	Nozzle 3,0 mm HCP	10 pcs
HG 10.658	HG10.658	Nozzle 3,5 mm	10 pcs	HG 10.658/C	HG10.658CP	Nozzle 3,5 mm HCP	10 pcs
HG 10.659	HG10.659	Nozzle 4,0 mm	10 pcs	HG 10.659/C	HG10.659CP	Nozzle 4,0 mm HCP	10 pcs

PolyTetraFluoroEthylene is a fluorocarbon-based polymer and is commonly abbreviated PTFE. The Teflon® brand of PTFE is manufactured only by DuPont and is not sold by Thermacut. Thermacut purchases other brands of PTFE from various high quality manufacturers.

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REPLACEMENT PARTS SUITABLE FOR MAZAK®

MAZAK® LASER CNC L32 PLUS SUPER CHARGE, XT510, NTX48, TURBO 10KW, SUPER TURBO 15KW, SUPER TURBO 20KW HI-PRO, SUPER TURBO X510 HI-PRO



HG 10.660



HG 10.660/C - 666/C

Double copper nozzles / Double copper nozzles with hard chromium plating

Part No.	Ref. No.	Description	Std. Pkg.	Part No.	Ref. No.	Description	Std. Pkg.
HG 10.660	HG10.660	Double-Nozzle 1,0 mm	10 pcs	HG 10.660/C	HG10.660CP	Double-Nozzle 1,0 mm HCP	10 pcs
HG 10.661	HG10.661	Double-Nozzle 1,2 mm	10 pcs	HG 10.661/C	HG10.661CP	Double-Nozzle 1,2 mm HCP	10 pcs
HG 10.662	HG10.662	Double-Nozzle 1,5 mm	10 pcs	HG 10.662/C	HG10.662CP	Double-Nozzle 1,5 mm HCP	10 pcs
HG 10.663	HG10.663	Double-Nozzle 2,0 mm	10 pcs	HG 10.663/C	HG10.663CP	Double-Nozzle 2,0 mm HCP	10 pcs
HG 10.664	HG10.664	Double-Nozzle 2,2 mm	10 pcs	HG 10.664/C	HG10.664CP	Double-Nozzle 2,2 mm HCP	10 pcs
HG 10.665	HG10.665	Double-Nozzle 2,5 mm	10 pcs	HG 10.665/C	HG10.665CP	Double-Nozzle 2,5 mm HCP	10 pcs
HG 10.666	HG10.666	Double-Nozzle 3,0 mm	10 pcs	HG 10.666/C	HG10.666CP	Double-Nozzle 3,0 mm HCP	10 pcs



HG 10.323 - 326



HG 10.475 - 482

Adapter copper nozzles / Adapter copper nozzles with hard chromium plating

Part No.	Ref. No.	Description	Std. Pkg.	Part No.	Ref. No.	Description	Std. Pkg.
HG 10.323	46603350508K	Adapter nozzle 0,8mm	10 pcs	HG 10.323/C	46603350508CPK	Adapter nozzle 0,8mm HCP	10 pcs
HG 10.307	46603350511K	Adapter nozzle 1,0mm	10 pcs	HG 10.307/C	46603350511CPK	Adapter nozzle 1,0mm HCP	10 pcs
HG 10.309	46603350512K	Adapter nozzle 1,2mm	10 pcs	HG 10.309/C	46603350512CPK	Adapter nozzle 1,2mm HCP	10 pcs
HG 10.310	46603350515K	Adapter nozzle 1,5mm	10 pcs	HG 10.310/C	46603350515CPK	Adapter nozzle 1,5mm HCP	10 pcs
HG 10.324	46603350517K	Adapter nozzle 1,7mm	10 pcs	HG 10.324/C	46603350517CPK	Adapter nozzle 1,7mm HCP	10 pcs
HG 10.318	46603350520K	Adapter nozzle 2,0mm	10 pcs	HG 10.318/C	46603350520CPK	Adapter nozzle 2,0mm HCP	10 pcs
HG 10.308	46603350525K	Adapter nozzle 2,5mm	10 pcs	HG 10.308/C	46603350525CPK	Adapter nozzle 2,5mm HCP	10 pcs
HG 10.325	46603350530K	Adapter nozzle 3,0mm	10 pcs	HG 10.325/C	46603350530CPK	Adapter nozzle 3,0mm HCP	10 pcs
HG 10.303	46603350535K	Adapter nozzle 3,5mm	10 pcs	HG 10.303/C	46603350535CPK	Adapter nozzle 3,5mm HCP	10 pcs
HG 10.326	46603350540K	Adapter nozzle 4,0mm	10 pcs	HG 10.326/C	46603350540CPK	Adapter nozzle 4,0mm HCP	10 pcs
HG 10.475	46603350508H	Adapter-6-edgenozzle 0,8mm	10 pcs	HG 10.475/C	46603350508CPH	Adapter-6-edge nozzle 0,8mm HCP	10 pcs
HG 10.476	46603350511H	Adapter-6-edgenozzle 1,0mm	10 pcs	HG 10.476/C	46603350511CPH	Adapter-6-edge nozzle 1,0mm HCP	10 pcs
HG 10.477	46603350512H	Adapter-6-edgenozzle 1,2mm	10 pcs	HG 10.477/C	46603350512CPH	Adapter-6-edge nozzle 1,2mm HCP	10 pcs
HG 10.478	46603350515H	Adapter-6-edgenozzle 1,5mm	10 pcs	HG 10.478/C	46603350515CPH	Adapter-6-edge nozzle 1,5mm HCP	10 pcs
HG 10.479	46603350517H	Adapter-6-edgenozzle 1,7mm	10 pcs	HG 10.479/C	46603350517CPH	Adapter-6-edge nozzle 1,7mm HCP	10 pcs
HG 10.480	46603350520H	Adapter-6-edgenozzle 2,0mm	10 pcs	HG 10.480/C	46603350520CPH	Adapter-6-edge nozzle 2,0mm HCP	10 pcs
HG 10.481	46603350525H	Adapter-6-edgenozzle 2,5mm	10 pcs	HG 10.481/C	46603350525CPH	Adapter-6-edge nozzle 2,5mm HCP	10 pcs
HG 10.482	46603350530H	Adapter-6-edgenozzle 3,0mm	10 pcs	HG 10.482/C	46603350530CPH	Adapter-6-edge nozzle 3,0mm HCP	10 pcs

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REPLACEMENT PARTS SUITABLE FOR MAZAK®

MAZAK® 5" C/MG, MAZAK® 5" H/MG



HG 10.239-242



HG 10.244-248



HG 10.286-290



HG 10.291-297

Part No.	Ref. No.	Description	Std. Pkg.	Part No.	Ref. No.	Description	Std. Pkg.
HG 10.461	4671330032	Ring for SPACE GEAR Vespel®	1 pc	HG 10.288	46713300290-15	Nozzle 1,5mm 3D (P0352-381-00015)	1 pc
HG 10.241	281006	Nozzle 1,0mm kk (P0352-333-00010)	1 pc	HG 10.289	HG10.289	Nozzle 1,8mm 3D	1 pc
HG 10.242	281030	Nozzle 1,2mm kk (P0352-334-00012)	1 pc	HG 10.290	46713300310-2.0	Nozzle 2,0mm 3D (P0352-382-00020)	1 pc
HG 10.243	281031	Nozzle 1,5mm kk (P0352-335-00015)	1 pc	HG 10.486	46713300280-25	Nozzle 2,5mm 3D (P0352-385-00025)	1 pc
HG 10.240	280898	Nozzle 1,8mm kk (P0352-336-00018)	1 pc	HG 10.487	46713300280-30	Nozzle 3,0mm 3D	1 pc
HG 10.239	P0352.336.00020	Nozzle 2,0mm kk	1 pc	HG 10.291	HG10.291	Nozzle 1,0mm 2D	1 pc
HG 10.245	281005	Nozzle 1,0mm zk (P0352-323-00010)	1 pc	HG 10.292	46713300310-1.2	Nozzle 1,2mm 2D	1 pc
HG 10.246	281034	Nozzle 1,2mm zk (P0352-324-00012)	1 pc	HG 10.293	P0352-386-00015	Nozzle 1,5mm 2D (P0352-386-00015)	1 pc
HG 10.247	281013	Nozzle 1,5mm zk (P0352-325-00015)	1 pc	HG 10.294	HG10.294	Nozzle 1,8 mm 2D	1 pc
HG 10.244	280899	Nozzle 1,8mm zk (P0352-326-00018)	1 pc	HG 10.295	46713300300	Nozzle 2,0 mm 2D (P0352-387-00020)	1 pc
HG 10.248	350044-3	Nozzle 2,0mm zk (P0352-327-00020)	1 pc	HG 10.296	46713300300-25	Nozzle 2,5 mm 2D	1 pc
HG 10.286	46713300290-10	Nozzle 1,0mm 3D (P0352-383-00010)	1 pc	HG 10.297	46713300300-30	Nozzle 3,0 mm 2D	1 pc
HG 10.287	46713300290-12	Nozzle 1,2mm 3D (P0352-384-00012)	1 pc				

HYPER GEAR NTX510®



HG 10.670-676



HG 10.677-683

Part No.	Ref. No.	Description	Std. Pkg.	Part No.	Ref. No.	Description	Std. Pkg.
HG 10.685	HG10.685	Nozzle 1,0 mm HCP	10 pcs	HG 10.677	HG10.677	Double nozzle 1,2 mm HCP	10 pcs
HG 10.670	46143304470	Nozzle 1,2 mm HCP	10 pcs	HG 10.678	HG10.678	Double nozzle 1,5 mm HCP	10 pcs
HG 10.671	46143304450	Nozzle 1,5 mm HCP	10 pcs	HG 10.679	HG10.679	Double nozzle 2,0 mm HCP	10 pcs
HG 10.672	46143304460	Nozzle 2,0 mm HCP	10 pcs	HG 10.680	HG10.680	Double nozzle 2,5 mm HCP	10 pcs
HG 10.673	46143304480	Nozzle 2,5 mm HCP	10 pcs	HG 10.681	HG10.681	Double nozzle 3,0 mm HCP	10 pcs
HG 10.674	46143304490	Nozzle 3,0 mm HCP	10 pcs	HG 10.682	HG10.682	Double nozzle 3,5 mm HCP	10 pcs
HG 10.675	46143304500	Nozzle 3,5 mm HCP	10 pcs	HG 10.683	HG10.683	Double nozzle 4,0 mm HCP	10 pcs
HG 10.676	46143304510	Nozzle 4,0 mm HCP	10 pcs				

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LENSES SUITABLE FOR MAZAK®

Part No.	Ref. No.	Description	Std. Pkg.	Part No.	Ref. No.	Description	Std. Pkg.
HG 10.167/H	HG 10.167/H	5,00" ZnSe Meniscus lens	1pc	HG 15.016/H	HG 15.016/H	7,50" ZnSe Plano-convex lens	1pc
		High pressure lens (29bar), 38,1mm				High pressure lens (29bar), 38,1mm	
		Effective focal length: 127,0mm				Effective focal length: 190,5mm	
		Edge thickness: 7,4 mm				Edge thickness: 7,6 mm	
		AR/AR for 10,6um (absorption <0.20%)				AR/AR for 10,6um (absorption <0.20%)	
HG 10.620/H	HG 10.620/H	5,00" ZnSe Meniscus lens	1pc	HG 10.621/H	HG 10.621/H	7,50" ZnSe Meniscus lens	1pc
		High pressure lens (28bar), 50,8mm				High pressure lens (28bar), 50,8mm	
		Effective focal length: 127,0mm				Effective focal length: 190,5mm	
		Edge thickness: 9,7 mm				Edge thickness: 9,7 mm	
		AR/AR for 10,6um (absorption <0.24%)				AR/AR for 10,6um (absorption <0.24%)	
HG 15.015/H	HG 15.015/H	5,00" ZnSe Plano-convex lens	1pc	HG 15.028/H	HG 15.028/H	7,50" ZnSe Plano-convex lens	1pc
		High pressure lens (28bar), 38,1mm				High pressure lens (19bar), 50,8mm	
		Effective focal length: 127,0mm				Effective focal length: 190,5mm	
		Edge thickness: 7,6 mm				Edge thickness: 7,87 mm	
		AR/AR for 10,6um (absorption <0.20%)				AR/AR for 10,6um (absorption <0.20%)	
HG 15.024/H	HG 15.024/H	5,00" ZnSe Plano-convex lens	1pc	HG 15.003/H	HG 15.003/H	7,50" ZnSe Plano-convex lens	1pc
		High pressure lens (33bar), 38,1mm				High pressure lens (28bar), 50,8mm	
		Effective focal length: 127,0mm				Effective focal length: 190,5mm	
		Edge thickness: 7,87 mm				Edge thickness: 9,7 mm	
		AR/AR for 10,6um (absorption <0.20%)				AR/AR for 10,6um (absorption <0.24%)	
HG 15.029/H	HG 15.029/H	5,00" ZnSe Plano-convex lens	1pc	HG 10.622/H	HG 10.622/H	10,00" ZnSe Meniscus lens	1pc
		High pressure lens (19bar), 50,8mm				High pressure lens (28bar), 50,8mm	
		Effective focal length: 127,0mm				Effective focal length: 254,0mm	
		Edge thickness: 7,87 mm				Edge thickness: 9,7 mm	
		AR/AR for 10,6um (absorption <0.20%)				AR/AR for 10,6um (absorption <0.24%)	
HG 15.002/H	HG 15.002/H	5,00" ZnSe Plano-convex lens	1pc	HG 10.167/HU	HG 10.167/HU	5,00" ZnSe Men. lens - ULTRA LOW	1pc
		High pressure lens (28bar), 50,8mm				High pressure lens (29bar), 38,1mm	
		Effective focal length: 127,0mm				Effective focal length: 127,0mm	
		Edge thickness: 9,7mm				Edge thickness: 7,4 mm	
		AR/AR for 10,6um (absorption <0.24%)				AR/AR for 10,6um (absorption <0.12%)	
HG 10.168/H	HG 10.168/H	7,50" ZnSe Meniscus lens	1pc	HG 10.168/HU	HG 10.168/HU	7,50" ZnSe Men. lens - ULTRA LOW	1pc
		High pressure lens (29bar), 38,1mm				High pressure lens (29bar), 38,1mm	
		Effective focal length: 190,5mm				Effective focal length: 190,5mm	
		Edge thickness: 7,4mm				Edge thickness: 7,4 mm	
		AR/AR for 10,6um (absorption <0.20%)				AR/AR for 10,6um (absorption <0.12%)	

ACCESSORIES SUITABLE FOR MAZAK®

Part No.	Ref. No.	Description	Std. Pkg.
HG 10.174	HG 10.174	Polish for laser optics, 100ml	1pc
HG 10.173	HG 10.173	Lens cleaning paper from Tiffen, sheet size 70x115mm	50pcs

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HG 11.100



HG 11.160



HG 11.162



HG 11.139



HG 11.161



HG 11.163

Part No.	Ref. No.	Description	Std. Pkg.	Part No.	Ref. No.	Description	Std. Pkg.
HG 11.100	281330	Ceramic nozzle holder	1 pc	HG 11.162	004.4312.041	Nozzle adapter for Trumpf®	1 pc
HG 11.139	HG11.139	Nozzle adapter for Trumpf®	1 pc			Length 30mm - TLC	
		Flatbed		HG 11.163	004.4312.034	Nozzle adapter for Trumpf®	1 pc
HG 11.160	004.4312.040	Nozzle adapter for Trumpf®	1 pc			Length 20mm - TLC	
		Length 29mm - Flatbed					
HG 11.161	004.4312.032	Nozzle adapter for Trumpf®	1 pc				
		Length 19mm - Flatbed					



HG 11.120-125



HG 11.300-308



HG 11.129-138



HG 11.150-158

Standard copper nozzles / Double copper nozzles

Part No.	Ref. No.	Description	Std. Pkg.	Part No.	Ref. No.	Description	Std. Pkg.
HG 11.120	281599	Nozzle 1,0mm (P0571-291-00010)	10 pcs	HG 11.300	HG11.300	Double nozzle 1,0mm	10 pcs
HG 11.121	P0571-292-00012	Nozzle 1,2mm (P0571-292-00012)	10 pcs	HG 11.301	HG11.301	Double nozzle 1,2mm	10 pcs
HG 11.122	281570	Nozzle 1,5mm (P0571-293-00015)	10 pcs	HG 11.302	HG11.302	Double nozzle 1,5mm	10 pcs
HG 11.123	P0571-294-00018	Nozzle 1,8mm (P0571-294-00018)	10 pcs	HG 11.303	HG11.303	Double nozzle 1,8mm	10 pcs
HG 11.124	281571	Nozzle 2,0mm (P0571-295-00020)	10 pcs	HG 11.304	HG11.304	Double nozzle 2,0mm	10 pcs
HG 11.125	281572	Nozzle 2,5mm (P0571-297-00025)	10 pcs	HG 11.305	HG11.305	Double nozzle 2,3mm	10 pcs
HG 11.129	HG11.129	Nozzle 0,8mm	10 pcs	HG 11.306	HG11.306	Double nozzle 2,5mm	10 pcs
HG 11.130	281548	Nozzle 1,0mm (P0591-571-00010)	10 pcs	HG 11.307	HG11.307	Double nozzle 3,0mm	10 pcs
HG 11.131	281549	Nozzle 1,2mm (P0591-572-00012)	10 pcs	HG 11.308	HG11.308	Double nozzle 3,5mm	10 pcs
HG 11.132	281463	Nozzle 1,5mm (P0591-573-00015)	10 pcs	HG 11.150	281340	Nozzle 1,0mm (P0571-281-00010)	10 pcs
HG 11.133	P0591-574-00018	Nozzle 1,8mm (P0591-574-00018)	10 pcs	HG 11.151	281341	Nozzle 1,2mm (P0571-282-00012)	10 pcs
HG 11.134	281550	Nozzle 2,0mm (P0591-575-00020)	10 pcs	HG 11.152	281342	Nozzle 1,5mm (P0571-283-00015)	10 pcs
HG 11.135	HG11.135	Nozzle 2,2 mm	10 pcs	HG 11.153	HG11.153	Nozzle 1,8mm	10 pcs
HG 11.136	281551	Nozzle 2,5mm (P0591-576-00025)	10 pcs	HG 11.154	281343	Nozzle 2,0mm (P0571-285-00020)	10 pcs
HG 11.137	HG11.137	Nozzle 2,7mm	10 pcs	HG 11.155	HG11.155	Nozzle 2,2mm	10 pcs
HG 11.138	P0591-577-00030	Nozzle 3,0mm (P0591-577-00030)	10 pcs	HG 11.156	281344	Nozzle 2,5mm (P0571-286-00025)	10 pcs
HG 11.128	HG11.128	Nozzle 3,5mm	10 pcs	HG 11.157	HG11.157	Nozzle 2,7mm	10 pcs
				HG 11.158	HG11.158	Nozzle 3,0mm	10 pcs

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HG 11.101



HG 11.112

Standard copper nozzles / Special nozzles for ADIGE SALA

Part No.	Ref. No.	Description	Std. Pkg.	Part No.	Ref. No.	Description	Std. Pkg.
HG 11.101	281590	Nozzle 0,8mm (P0591-569-00008)	10 pcs	HG 11.112	HG11.112	Nozzle 0,80mm for Adige Sala®	10 pcs
HG 11.102	281331	Nozzle 1,0mm (P0591-561-00010)	10 pcs	HG 11.113	HG11.113	Nozzle 1,00mm for Adige Sala®	10 pcs
HG 11.103	281351	Nozzle 1,2mm (P0591-562-00012)	10 pcs	HG 11.114	HG11.114	Nozzle 1,25mm for Adige Sala®	10 pcs
HG 11.104	281352	Nozzle 1,5mm (P0591-563-00015)	10 pcs	HG 11.111	HG11.111	Nozzle 1,50mm for Adige Sala®	10 pcs
HG 11.105	281353	Nozzle 1,8mm (P0591-564-00018)	10 pcs	HG 11.115	HG11.115	Nozzle 1,80mm for Adige Sala®	10 pcs
HG 11.106	281354	Nozzle 2,0mm (P0591-565-00020)	10 pcs	HG 11.116	HG11.116	Nozzle 2,00mm for Adige Sala®	10 pcs
HG 11.107	HG11.107	Nozzle 2,2mm	10 pcs				
HG 11.108	281591	Nozzle 2,5mm (P0591-566-00025)	10 pcs				
HG 11.109	HG11.109	Nozzle 2,7mm	10 pcs				
HG 11.110	HG11.110	Nozzle 3,0mm	10 pcs				



HG 11.140-147

Long copper nozzles

Part No.	Ref. No.	Description	Std. Pkg.	Part No.	Ref. No.	Description	Std. Pkg.
HG 11.140	P0573-563-00010	Long Nozzle 1,0 mm	10 pcs	HG 11.144	P0573-564-00020	Long Nozzle 2,0 mm	10 pcs
HG 11.141	P0573-563-00012	Long Nozzle 1,2 mm	10 pcs	HG 11.145	P0573-565-00023	Long Nozzle 2,3 mm	10 pcs
HG 11.142	P0573-563-00015	Long Nozzle 1,5 mm	10 pcs	HG 11.146	P0573-566-00025	Long Nozzle 2,5 mm	10 pcs
HG 11.143	HG11.143	Long Nozzle 1,8 mm	10 pcs	HG 11.147	HG11.147	Long Nozzle 3,0 mm	10 pcs

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HG 11.120/C-125/C



HG 11.129/C-138/C

Standard copper nozzels with chromium plating

Part No.	Ref. No.	Description	Std. Pkg.	Part No.	Ref. No.	Description	Std. Pkg.
HG 11.120/C	281599CP	Nozzle 1,0mm (P0571-291-00010) HCP	10 pcs	HG 11.132/C	281463CP	Nozzle 1,5mm (P0591-573-00015) HCP	10 pcs
HG 11.121/C	P057129200012CP	Nozzle 1,2mm (P0571-292-00012) HCP	10 pcs	HG 11.133/C	P059157400018CP	Nozzle 1,8mm (P0591-574-00018) HCP	10 pcs
HG 11.122/C	281570CP	Nozzle 1,5mm (P0571-293-00015) HCP	10 pcs	HG 11.134/C	281550CP	Nozzle 2,0 mm (P0591-575-00020) HCP	10 pcs
HG 11.123/C	P057129400018CP	Nozzle 1,8mm (P0571-294-00018) HCP	10 pcs	HG 11.135/C	HG11.135CP	Nozzle 2,2 mm HCP	10 pcs
HG 11.124/C	281571CP	Nozzle 2,0mm (P0571-295-00020) HCP	10 pcs	HG 11.136/C	281551CP	Nozzle 2,5 mm (P0591-576-00025) HCP	10 pcs
HG 11.125/C	281572CP	Nozzle 2,5mm (P0571-297-00025) HCP	10 pcs	HG 11.137/C	HG11.137CP	Nozzle 2,7 mm HCP	10 pcs
HG 11.129/C	HG11.129CP	Nozzle 0,8mm HCP	10 pcs	HG 11.138/C	P059157700030CP	Nozzle 3,0 mm (P0591-577-00030) HCP	10 pcs
HG 11.130/C	281548CP	Nozzle 1,0mm (P0591-571-00010) HCP	10 pcs	HG 11.128/C	HG11.128CP	Nozzle 3,5 mm HCP	10 pcs
HG 11.131/C	281549CP	Nozzle 1,2mm (P0591-572-00012) HCP					



HG 11.300/C-308/C

Double copper nozzels with chromium plating

Part No.	Ref. No.	Description	Std. Pkg.	Part No.	Ref. No.	Description	Std. Pkg.
HG 11.300/C	HG11.300CP	Double nozzle 1,0 mm HCP	10 pcs	HG 11.305/C	HG11.305CP	Double nozzle 2,3 mm HCP	10 pcs
HG 11.301/C	HG11.301CP	Double nozzle 1,2 mm HCP	10 pcs	HG 11.306/C	HG11.306CP	Double nozzle 2,5 mm HCP	10 pcs
HG 11.302/C	HG11.302CP	Double nozzle 1,5 mm HCP	10 pcs	HG 11.307/C	HG11.307CP	Double nozzle 3,0 mm HCP	10 pcs
HG 11.303/C	HG11.303CP	Double nozzle 1,8 mm HCP	10 pcs	HG 11.308/C	HG11.308CP	Double nozzle 3,5 mm HCP	10 pcs
HG 11.304/C	HG11.304CP	Double nozzle 2,0 mm HCP	10 pcs				



HG 11.150/C-158/C

Standard copper nozzels with chromium plating

Part No.	Ref. No.	Description	Std. Pkg.	Part No.	Ref. No.	Description	Std. Pkg.
HG 11.150/C	281340CP	Nozzle 1,0mm(P0571-281-00010) HCP	10 pcs	HG 11.102/C	281331CP	Nozzle 1,0mm (P0591-561-00010) HCP	10 pcs
HG 11.151/C	281341CP	Nozzle 1,2mm(P0571-282-00012) HCP	10 pcs	HG 11.103/C	281351CP	Nozzle 1,2mm (P0591-562-00012) HCP	10 pcs
HG 11.152/C	281342CP	Nozzle 1,5mm(P0571-283-00015) HCP	10 pcs	HG 11.104/C	281352CP	Nozzle 1,5mm (P0591-563-00015) HCP	10 pcs
HG 11.153/C	HG11.153CP	Nozzle 1,8mm HCP	10 pcs	HG 11.105/C	281353CP	Nozzle 1,8mm (P0591-564-00018) HCP	10 pcs
HG 11.154/C	281343CP	Nozzle 2,0mm(P0571-285-00020) HCP	10 pcs	HG 11.106/C	281354CP	Nozzle 2,0mm (P0591-565-00020) HCP	10 pcs
HG 11.155/C	HG11.155CP	Nozzle 2,2mm HCP	10 pcs	HG 11.107/C	HG11.107CP	Nozzle 2,2mm HCP	10 pcs
HG 11.156/C	281344CP	Nozzle 2,5mm(P0571-286-00025) HCP	10 pcs	HG 11.108/C	281591CP	Nozzle 2,5mm (P0591-566-00025) HCP	10 pcs
HG 11.157/C	HG11.157CP	Nozzle 2,7mm HCP	10 pcs	HG 11.109/C	HG11.109CP	Nozzle 2,7mm HCP	10 pcs
HG 11.158/C	HG11.158CP	Nozzle 3,0mm HCP	10 pcs	HG 11.110/C	HG11.110CP	Nozzle 3,0mm HCP	10 pcs
HG 11.101/C	281590CP	Nozzle 0,8mm(P0591-569-00008) HCP	10 pcs				

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HG 11.112/C -116/C

Special nozzles for ADIGE SALA in chromium plating

Part No.	Ref. No.	Description	Std. Pkg.	Part No.	Ref. No.	Description	Std. Pkg.
HG 11.112/C	HG11.112CP	Nozzle 0,80mm Adige Sala® HCP	10 pcs	HG 11.111/C	HG11.111CP	Nozzle 1,50 mm Adige Sala® HCP	10 pcs
HG 11.113/C	HG11.113CP	Nozzle 1,00 mm Adige Sala® HCP	10 pcs	HG 11.115/C	HG11.115CP	Nozzle 1,80 mm Adige Sala® HCP	10 pcs
HG 11.114/C	HG11.114CP	Nozzle 1,25 mm Adige Sala® HCP	10 pcs	HG 11.116/C	HG11.116CP	Nozzle 2,00 mm Adige Sala® HCP	10 pcs



HG 11.140/C-147/C

Long copper nozzles in chromium plating

Part No.	Ref. No.	Description	Std. Pkg.	Part No.	Ref. No.	Description	Std. Pkg.
HG 11.140/C	P057356300010CP	Long Nozzle 1,0 mm HCP	10 pcs	HG 11.144/C	P057356400020CP	Long Nozzle 2,0 mm HCP	10 pcs
HG 11.141/C	P057356300012CP	Long Nozzle 1,2 mm HCP	10 pcs	HG 11.145/C	P057356500023CP	Long Nozzle 2,3 mm HCP	10 pcs
HG 11.142/C	P057356300015CP	Long Nozzle 1,5 mm HCP	10 pcs	HG 11.146/C	P057356600025CP	Long Nozzle 2,5 mm HCP	10 pcs
HG 11.143/C	HG11.143CP	Long Nozzle 1,8 mm HCP	10 pcs	HG 11.147/C	HG11.147CP	Long Nozzle 3,0 mm HCP	10 pcs



HG 10.281
HG 10.282



HG 10.283



HG 10.279
HG 10.284



HG 10.285

Standard copper nozzles

Part No.	Ref. No.	Description	Std. Pkg.	Part No.	Ref. No.	Description	Std. Pkg.
HG 10.281	280 029	Nozzle 1,0mm (P0492-628-00010)	10 pcs	HG 10.279	281 384	Nozzle 1,7mm (P0492-630-00017)	10 pcs
HG 10.282	280 030	Nozzle 1,2mm (P0492-629-00012)	10 pcs	HG 10.284	280 027	Nozzle 2,0mm (P0492-626-00020)	10 pcs
HG 10.283	280 028	Nozzle 1,5mm (P0492-627-00015)	10 pcs	HG 10.285	280 026	Nozzle 2,5mm (P0492-625-00025)	10 pcs

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REPLACEMENT PARTS SUITABLE FOR PRECITEC®

PRECITEC® (WEIDMULLER) 5"KN/MG



HG 10.217-223



HG 10.225-221

Standard copper nozzels with chromium plating

Part No.	Ref. No.	Description	Std. Pkg.	Part No.	Ref. No.	Description	Std. Pkg.
HG 10.217	280551	Nozzle 1,0mm (P0494-853-00010)	10 pcs	HG 10.217/C	280551CP	Nozzle 1,0mm (P0494-853-00010) HCP	10 pcs
HG 10.208	280552	Nozzle 1,2mm (P0494-854-00012)	10 pcs	HG 10.208/C	280552CP	Nozzle 1,2mm (P0494-854-00012) HCP	10 pcs
HG 10.218	280553	Nozzle 1,5mm (P0494-855-00015)	10 pcs	HG 10.218/C	280553CP	Nozzle 1,5mm (P0494-855-00015) HCP	10 pcs
HG 10.222	P0494-856-00017	Nozzle 1,7mm	10 pcs	HG 10.222/C	P0494-856-00017CP	Nozzle 1,7mm HCP	10 pcs
HG 10.223	280554	Nozzle 2,0mm (P0494-857-00020)	10 pcs	HG 10.223/C	280554CP	Nozzle 2,0mm (P0494-857-00020) HCP	10 pcs
HG 10.008	HG10.008	Teach Nozzle 0.25mm rough edged	1 pc	HG 10.225/C	HG10.225CP	Slop-cutting nozzle 1,0 mm HCP	10 pcs
HG 16.225	HG10.225	Slop-cutting nozzle 1,0mm	10 pcs	HG 10.226/C	HG10.226CP	Slop-cutting nozzle 1,2 mm HCP	10 pcs
HG 16.226	HG10.226	Slop-cutting nozzle 1,2mm	10 pcs	HG 10.220/C	HG10.220CP	Slop-cutting nozzle 1,4 mm HCP	10 pcs
HG 16.220	HG10.220	Slop-cutting nozzle 1,4mm	10 pcs	HG 10.221/C	HG10.221CP	Slop-cutting nozzle 1,7 mm HCP	10 pcs
HG 16.221	HG10.221	Slop-cutting nozzle 1,7mm	10pcs				

LENSES SUITABLE FOR PRECITEC®

Part No.	Ref. No.	Description	Std. Pkg.	Part No.	Ref. No.	Description	Std. Pkg.
HG 10.731/H	HG 10.731/H	5,00" ZnSe Meniscus lens	1pc	HG 10.168/H	HG 10.168/H	7,50" ZnSe Meniscus lens	1pc
		High pressure lens (20bar), 38,1mm				High pressure lens (29bar), 38,1mm	
		Effective focal length: 127,0mm				Effective focal length: 190,5mm	
		Edge thickness: 6,0 mm				Edge thickness: 7,4 mm	
		AR/AR for 10,6um (absorption <0.20%)				AR/AR for 10,6um (absorption <0.20%)	
HG 10.732/H	HG 10.732/H	7,50" ZnSe Meniscus lens	1pc	HG 10.733/H	HG 10.733/H	5,00" ZnSe Meniscus lens	1pc
		High pressure lens (20bar), 38,1mm				High pressure lens (42bar), 38,1mm	
		Effective focal length: 190,5mm				Effective focal length: 127,0mm	
		Edge thickness: 6,0 mm				Edge thickness: 9,0 mm	
		AR/AR for 10,6um (absorption <0.20%)				AR/AR for 10,6um (absorption <0.20%)	
HG 10.166/H	HG 10.166/H	3,75" ZnSe Meniscus lens	1pc	HG 10.734/H	HG 10.734/H	7,50" ZnSe Meniscus lens	1pc
		High pressure lens (29bar), 38,1mm				High pressure lens (42bar), 38,1mm	
		Effective focal length: 95,3mm				Effective focal length: 190,5mm	
		Edge thickness: 7,4 mm				Edge thickness: 9,0 mm	
		AR/AR for 10,6um (absorption <0.20%)				AR/AR for 10,6um (absorption <0.20%)	
HG 10.167/H	HG 10.167/H	5,00" ZnSe Meniscus lens	1pc	HG 10.620/H	HG 10.620/H	5,00" ZnSe Meniscus lens	1pc
		High pressure lens (29bar), 38,1mm				High pressure lens (42bar), 50,8mm	
		Effective focal length: 127,0mm				Effective focal length: 127,0mm	
		Edge thickness: 7,4 mm				Edge thickness: 9,7 mm	
		AR/AR for 10,6um (absorption <0.20%)				AR/AR for 10,6um (absorption <0.20%)	

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REPLACEMENT PARTS SUITABLE FOR PRECITEC®

LENSES SUITABLE FOR PRECITEC®

Part No.	Ref. No.	Description	Std. Pkg.	Part No.	Ref. No.	Description	Std. Pkg.
HG 10.621/H	HG 10.621/H	7,50" ZnSe Meniscus lens	1 pc	HG 10.733/HU	HG 10.733/HU	5,00" ZnSe Men. lens - ULTRA LOW	1 pc
		High pressure lens (28bar), 50,8mm				High pressure lens (42bar), 38,1mm	
		Effective focal length: 127,0mm				Effective focal length: 127,0mm	
		Edge thickness: 9,7 mm				Edge thickness: 9,0 mm	
		AR/AR for 10,6um (absorption <0.24%)				AR/AR for 10,6um (absorption <0.15%)	
HG 15.002/H	HG 15.002/H	5,00" ZnSe Plano-convex lens	1 pc	HG 10.734/HU	HG 10.734/HU	7,50" ZnSe Men. lens - ULTRA LOW	1 pc
		High pressure lens (28bar), 50,8mm				High pressure lens (42bar), 38,1mm	
		Effective focal length: 190,5mm				Effective focal length: 190,5mm	
		Edge thickness: 9,7 mm				Edge thickness: 9,0 mm	
		AR/AR for 10,6um (absorption <0.24%)				AR/AR for 10,6um (absorption <0.15%)	
HG 15.003/H	HG 15.003/H	7,50" ZnSe Plano-convex lens	1 pc	HG 10.620/HU	HG 10.620/HU	5,00" ZnSe Men. lens - ULTRA LOW	1 pc
		High pressure lens (28bar), 50,8mm				High pressure lens (28bar), 50,8mm	
		Effective focal length: 190,5mm				Effective focal length: 127,0mm	
		Edge thickness: 9,7 mm				Edge thickness: 9,7 mm	
		AR/AR for 10,6um (absorption <0.24%)				AR/AR for 10,6um (absorption <0.15%)	
HG 10.167/HU	HG 10.167/HU	5,00" ZnSe Men. lens - ULTRA LOW	1 pc	HG 10.621/HU	HG 10.621/HU	7,50" ZnSe Men. lens - ULTRA LOW	1 pc
		High pressure lens (29bar), 38,1mm				High pressure lens (28bar), 50,8mm	
		Effective focal length: 127,0mm				Effective focal length: 190,5mm	
		Edge thickness: 7,4 mm				Edge thickness: 9,7 mm	
		AR/AR for 10,6um (absorption <0.12%)				AR/AR for 10,6um (absorption <0.15%)	
HG 10.168/HU	HG 10.168/HU	7,50" ZnSe Men. lens - ULTRA LOW	1 pc	HG 15.002/HU	HG 15.002/HU	5,00" ZnSe Plan-con. - ULTRA LOW	1 pc
		High pressure lens (29bar), 38,1mm				High pressure lens (28bar), 50,8mm	
		Effective focal length: 190,5mm				Effective focal length: 127,0mm	
		Edge thickness: 7,4 mm				Edge thickness: 9,7 mm	
		AR/AR for 10,6um (absorption <0.12%)				AR/AR for 10,6um (absorption <0.15%)	
HG 15.003/HU	HG 15.003/HU	7,50" ZnSe Plan-con. - ULTRA LOW	1 pc				
		High pressure lens (28bar), 50,8mm					
		Effective focal length: 190,5mm					
		Edge thickness: 9,7 mm					
		AR/AR for 10,6um (absorption <0.15%)					

ACCESSORIES SUITABLE FOR PRECITEC®

Part No.	Ref. No.	Description	Std. Pkg.
HG 10.174	HG 10.174	Polish for laser optics, 100ml	1 pc
HG 10.173	HG 10.173	Lens cleaning paper from Tiffen, sheet size 70x115mm	50 pcs

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REPLACEMENT PARTS SUITABLE FOR AMADA®

AMADA QUATTRO®

Part No.	Ref. No.	Description	Std. Pkg.
HG 10.617	4690802	Cermanic Part	1 pc

AMADA LASER AHS 100®



HG 10.506-510

Part No.	Ref. No.	Description	Std. Pkg.	Part No.	Ref. No.	Description	Std. Pkg.
HG 10.508	62094006-1.3	Nozzle 1,3 mm M10 × 1 HCP	10 pcs	HG 10.506	62094006-2.0	Nozzle 2,0 mm M10 × 1 HCP	10 pcs
HG 10.509	62094006-1.5	Nozzle 1,5 mm M10 × 1 HCP	10 pcs	HG 10.507	62094006-3.0	Nozzle 3,0 mm M10 × 1 HCP	10 pcs
HG 10.510	62094006-1.7	Nozzle 1,7 mm M10 × 1 HCP	10 pcs				

AMADA LASER HS 95®



HG 10.562



HG 10.550-559



HG 10.548-549

Standard copper nozzels with chromium plating

Part No.	Ref. No.	Description	Std. Pkg.	Part No.	Ref. No.	Description	Std. Pkg.
HG 10.561	71341614Vespel	Disc head protection - VESPEL®	1 pc	HG 10.559	1664545U-2.5	Nozzle 2,5 mm M12 × 1 HCP	10 pcs
HG 10.562	71341614PTFE	Disc head protection - PTFE 21,00mm	1 pc	HG 10.554	1664545U-3.0	Nozzle 3,0 mm M12 × 1 HCP	10 pcs
HG 10.551	1664545U-1.0	Nozzle 1,0mm M12 × 1 HCP	10 pcs	HG 10.566	1664545U-3.5	Nozzle 3,5 mm M12 × 1 HCP	10 pcs
HG 10.555	1664545U-1.2	Nozzle 1,2mm M12 × 1 HCP	10 pcs	HG 10.550	1664545U-4.0	Nozzle 4,0 mm M12 × 1 HCP	10 pcs
HG 10.552	1664545U-1.5	Nozzle 1,5mm M12 × 1 HCP	10 pcs	HG 10.548	1667110-2.0	Nozzle 2,0 mm M12 × 1 HCP	10 pcs
HG 10.553	1664545U-2.0	Nozzle 2,0mm M12 × 1 HCP	10 pcs	HG 10.549	1667110-3.0	Nozzle 3,0 mm M12 × 1 HCP	10 pcs



HG 10.580-589

Double copper nozzels with chromium plating

Part No.	Ref. No.	Description	Std. Pkg.	Part No.	Ref. No.	Description	Std. Pkg.
HG 10.588	1669864-1.2	Double nozzle 1,2 mm (7134162-1.2)	10 pcs	HG 10.584	1669864-2.5	Double nozzle 2,5 mm (7134162-2.5)	10 pcs
HG 10.589	1669864-1.4	Double nozzle 1,4 mm (7134162-1.4)	10 pcs	HG 10.587	1669864-3.0	Double nozzle 3,0 mm (7134162-3.0)	10 pcs
HG 10.580	1669864-1.5	Double nozzle 1,5 mm (7134162-1.5)	10 pcs	HG 10.615	1669864-3.8	Double nozzle 3,8 mm (7134162-3.8)	10 pcs
HG 10.582	1669864-2.0	Double nozzle 2,0 mm (7134162-2.0)	10 pcs	HG 10.586	1669864-4.0	Double nozzle 4,0 mm (7134162-4.0)	10 pcs

PolyTetraFluoroEthylene is a fluorocarbon-based polymer and is commonly abbreviated PTFE. The Teflon® brand of PTFE is manufactured only by DuPont and is not sold by Thermacut. Thermacut purchases other brands of PTFE from various high quality manufacturers.

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REPLACEMENT PARTS SUITABLE FOR AMADA®

AMADA F.O.®



HG 10.608-614



HG 10.592-599

Standard/Double copper nozzels with chromium plating

Part No.	Ref. No.	Description	Std. Pkg.	Part No.	Ref. No.	Description	Std. Pkg.
HG 10.609	1572362-0.8	Nozzle 0,8 mm HCP	10 pcs	HG 10.595	1572361-2.0	Double Nozzle 2,0 mm HCP	10 pcs
HG 10.610	1572362-1.2	Nozzle 1,2 mm HCP	10 pcs	HG 10.618	1572361-2.5	Double Nozzle 2,5 mm HCP	10 pcs
HG 10.613	1572362-1.4	Nozzle 1,4 mm HCP	10 pcs	HG 10.599	1572361-3.0	Double Nozzle 3,0 mm HCP	10 pcs
HG 10.608	1572362-1.5	Nozzle 1,5 mm HCP	10 pcs	HG 10.593	1572361-4.0	Double Nozzle 4,0 mm HCP	10 pcs
HG 10.611	1572362-2.0	Nozzle 2,0 mm HCP	10 pcs	HG 10.759	71515853	PTFE ring	1 pc
HG 10.612	1572362-3.0	Nozzle 3,0 mm HCP	10 pcs	HG 10.760	71502039	Double Nozzle 2,5mm with holes HCP (PTFE ring included) (Ref. 3B1576400A)	1 pc
HG 10.614	1572362-4.0	Nozzle 4,0 mm HCP	10 pcs				
HG 10.594	1572361-1.2	Double Nozzle 1,2 mm HCP	10 pcs	HG 10.761	71502040	Double Nozzle 4,0mm with holes HCP (PTFE ring included) (Ref. 3B1576402A)	1 pc
HG 10.592	1572361-1.4	Double Nozzle 1,4 mm HCP	10 pcs				

AMADA F.O.®

Part No.	Ref. No.	Description	Std. Pkg.	Part No.	Ref. No.	Description	Std. Pkg.
HG 10.762	HG10.762	WACS - Double Nozzle 1,4mm with holes Hard chrom (PTFE ring included)	1 pc	HG 10.767	HG10.767	WACS - Double Nozzle 5,0mm with holes Hard chrom (PTFE ring included)	1 pc
HG 10.763	HG10.763	WACS - Double Nozzle 1,7mm with holes Hard chrom (PTFE ring included)	1 pc	HG 10.773	71341728	Clean Cut Double Nozzle 4.0mm HCP	1 pc
HG 10.764	HG10.764	WACS - Double Nozzle 2,0mm with holes Hard chrom (PTFE ring included)	1 pc	HG 10.774	HG10.774	Clean Cut Double Nozzle 5.0mm HCP	1 pc
HG 10.765	71712335	WACS - Double Nozzle 2,5mm with holes Hard chrom (PTFE ring included)	1 pc	HG 10.775	HG10.775	Clean Cut Double Nozzle 6.0mm HCP	1 pc
HG 10.766	71712336	WACS - Double Nozzle 4,0mm with holes Hard chrom (PTFE ring included)	1 pc	HG 10.776	71341729	Clean Cut Double Nozzle 7.0mm HCP	1 pc
				HG 10.604	HG10.604	Double Nozzle to cut a perforated sheet 2,0mm	1 pc
				HG 10.603	HG10.603	Nozzle to cut a perforated sheet 2,0mm	1 pc

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REPLACEMENT PARTS SUITABLE FOR AMADA®

AMADA LC-3015 X1®



HG 12.506-522



HG 10.740



HG 12.501-4



HG 12.532, 520



HG 12.530



HG 10.741-744

Part No.	Ref. No.	Description	Std. Pkg.	Part No.	Ref. No.	Description	Std. Pkg.
HG 12.506	BQ943D897H01	Nozzle 1,0 mm	10 pcs	HG 12.520	BQ943D269H01	Nozzle 1,2 mm	10 pcs
HG 12.507	BQ943D157H01	Nozzle 1,5 mm	10 pcs	HG 12.530	BQ933D094H01	Nozzle nut, short (length 15mm)	1 pc
HG 12.531	HG12.531	Nozzle 1,7 mm	10 pcs	HG 12.501	BQ943D156H01	Double nozzle insert 8-holes	10 pcs
HG 12.508	BQ943D157H02	Nozzle 2,0 mm	10 pcs	HG 12.504	BQ943D156H03	Double nozzle insert 24-holes	10 pcs
HG 12.509	BQ943D157H03	Nozzle 2,5 mm	10 pcs	HG 10.740	HG10.740	PTFE shield	1 pc
HG 12.510	BQ943D157H04	Nozzle 3,0 mm	10 pcs	HG 10.741	HG10.741	Nozzle locking nut 1,7mm	1 pc
HG 12.521	BQ943D596H01	Nozzle 3,5 mm	10 pcs	HG 10.742	HG10.742	Nozzle locking nut 2,0mm	1 pc
HG 12.522	HG12.522	Nozzle 4,0 mm	10 pcs	HG 10.743	HG10.743	Nozzle locking nut 2,5mm	1 pc
HG 12.532	BQ933D283H01	Nozzle 1,0 mm	10 pcs	HG 10.744	HG10.744	Nozzle locking nut 4,0mm	1 pc

LENSES SUITABLE FOR AMADA LC-3015 X1®

Part No.	Ref. No.	Description	Std. Pkg.	Part No.	Ref. No.	Description	Std. Pkg.
HG 15.029/H	HG 15.029/H	5,00" ZnSe Plano-convex lens High pressure lens (19bar), 50,8mm Effective focal length: 127,0mm Edge thickness: 7,87 mm AR/AR for 10,6um (absorption <0.20%)	1pc	HG 15.029/HU	HG 15.029/HU	5,00" ZnSe Plan.-con. - ULTRA LOW High pressure lens (19bar), 50,8mm Effective focal length: 127,0mm Edge thickness: 7,87 mm AR/AR for 10,6um (absorption <0.15%)	1pc
HG 15.028/H	HG 15.028/H	7,50" ZnSe Plano-convex lens High pressure lens (19bar), 50,8mm Effective focal length: 190,5mm Edge thickness: 7,87 mm AR/AR for 10,6um (absorption <0.20%)	1pc	HG 15.028/HU	HG 15.028/HU	7,50" ZnSe Plan.-con. - ULTRA LOW High pressure lens (19bar), 50,8mm Effective focal length: 190,5mm Edge thickness: 7,87 mm AR/AR for 10,6um (absorption <0.15%)	1pc

PolyTetraFluoroEthylene is a fluorocarbon-based polymer and is commonly abbreviated PTFE. The Teflon® brand of PTFE is manufactured only by DuPont and is not sold by Thermacut. Thermacut purchases other brands of PTFE from various high quality manufacturers.

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REPLACEMENT PARTS SUITABLE FOR AMADA®

LENSES SUITABLE FOR AMADA®

Part No.	Ref. No.	Description	Std. Pkg.	Part No.	Ref. No.	Description	Std. Pkg.
HG 10.167/H	M78025	5,00" ZnSe Meniscus lens	1pc	HG 10.167/HU	M78025UL	5,00" ZnSe Men. lens - ULTRA LOW	1pc
		High pressure lens (29bar), 38,1mm				High pressure lens (29bar), 38,1mm	
		Effective focal length: 127,0mm				Effective focal length: 127,0mm	
		Edge thickness: 7,4 mm				Edge thickness: 7,4 mm	
		AR/AR for 10,6um (absorption <0.20%)				AR/AR for 10,6um (absorption <0.12%)	
HG 10.168/H	M78026	7,50" ZnSe Meniscus lens	1pc	HG 10.168/HU	M78026UL	7,50" ZnSe Men. lens - ULTRA LOW	1pc
		High pressure lens (29bar), 38,1mm				High pressure lens (29bar), 38,1mm	
		Effective focal length: 190,5mm				Effective focal length: 190,5mm	
		Edge thickness: 7,4mm				Edge thickness: 7,4mm	
		AR/AR for 10,6um (absorption <0.20%)				AR/AR for 10,6um (absorption <0.12%)	
HG 15.002/H	M78037	5,00" ZnSe Plano-convex lens	1 pc	HG 15.002/HU	M78037UL	5,00" ZnSe Plan.-con. - ULTRA LOW	1pc
		High pressure lens (28bar), 50,8mm				High pressure lens (28bar), 50,8mm	
		Effective focal length: 127,0mm				Effective focal length: 127,0mm	
		Edge thickness: 9,7 mm				Edge thickness: 9,7 mm	
		AR/AR for 10,6um (absorption <0.24%)				AR/AR for 10,6um (absorption <0.15%)	
HG 15.003/H	M78038	7,50" ZnSe Plano-convex lens	1 pc	HG 15.003/HU	M78038UL	7,50" ZnSe Plan.-con. - ULTRA LOW	1 pc
		High pressure lens (28bar), 50,8mm				High pressure lens (28bar), 50,8mm	
		Effective focal length: 190,5mm				Effective focal length: 190,5mm	
		Edge thickness: 9,7 mm				Edge thickness: 9,7mm	
		AR/AR for 10,6um (absorption <0.24%)				AR/AR for 10,6um (absorption <0.15%)	

ACCESSORIES SUITABLE FOR AMADA®

Part No.	Ref. No.	Description	Std. Pkg.
HG 10.174	HG 10.174	Polish for laser optics, 100ml	1pc
HG 10.173	HG 10.173	Lens cleaning paper from Tiffen, sheet size 70x115mm	50pcs

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REPLACEMENT PARTS SUITABLE FOR SALVAGNINI®

SALVAGNINI®



HG 10.260-269



HG 10.270



HG 10.260/C-269/C



HG 10.270/C

Part No.	Ref. No.	Description	Std. Pkg.	Part No.	Ref. No.	Description	Std. Pkg.
HG 10.264	141300A4	Nozzle 0,75 mm	10 pcs	HG 10.264/C	141300A4CP	Nozzle 0,75 mm HCP	10 pcs
HG 10.265	141301A4	Nozzle 1,00 mm	10 pcs	HG 10.265/C	141301A4CP	Nozzle 1,00 mm HCP	10 pcs
HG 10.260	146330A4	Nozzle 1,25 mm	10 pcs	HG 10.260/C	146330A4CP	Nozzle 1,25 mm HCP	10 pcs
HG 10.261	146329A4	Nozzle 1,50 mm	10 pcs	HG 10.261/C	146329A4CP	Nozzle 1,50 mm HCP	10 pcs
HG 10.262	146328A4	Nozzle 1,75 mm	10 pcs	HG 10.262/C	146328A4CP	Nozzle 1,75 mm HCP	10 pcs
HG 10.263	146327A4	Nozzle 2,00 mm	10 pcs	HG 10.263/C	146327A4CP	Nozzle 2,00 mm HCP	10 pcs
HG 10.267	146326A4	Nozzle 2,25 mm	10 pcs	HG 10.267/C	146326A4CP	Nozzle 2,25 mm HCP	10 pcs
HG 10.266	146325A4	Nozzle 2,50 mm	10 pcs	HG 10.266/C	146325A4CP	Nozzle 2,50 mm HCP	10 pcs
HG 10.269	146324A4	Nozzle 2,75 mm	10 pcs	HG 10.269/C	146324A4CP	Nozzle 2,75 mm HCP	10 pcs
HG 10.268	146323A4	Nozzle 3,00 mm	10 pcs	HG 10.268/C	146323A4CP	Nozzle 3,00 mm HCP	10 pcs
HG 10.270	140501A4	Nozzle 1,25 mm	10 pcs	HG 10.270/C	140501A4CP	Nozzle 1,25 mm HCP	10 pcs

LENSES SUITABLE FOR SALVAGNINI®

Part No.	Ref. No.	Description	Std. Pkg.	Part No.	Ref. No.	Description	Std. Pkg.
HG 10.167/H	HG 10.167/H	5,00" ZnSe Meniscus lens	1pc	HG 10.167/HU	HG 10.167/HU	5,00" ZnSe Men. lens - ULTRA LOW	1pc
		High pressure lens (29bar), 38,1mm				High pressure lens (29bar), 38,1mm	
		Effective focal length: 127,0mm				Effective focal length: 127,0mm	
		Edge thickness: 7,4 mm				Edge thickness: 7,4 mm	
		AR/AR for 10,6um (absorption <0.20%)				AR/AR for 10,6um (absorption <0.12%)	
HG 10.168/H	HG 10.168/H	7,50" ZnSe Meniscus lens	1pc	HG 10.168/HU	HG 10.168/HU	7,50" ZnSe Men. lens - ULTRA LOW	1pc
		High pressure lens (29bar), 38,1mm				High pressure lens (29bar), 38,1mm	
		Effective focal length: 190,5mm				Effective focal length: 190,5mm	
		Edge thickness: 7,4 mm				Edge thickness: 7,4 mm	
		AR/AR for 10,6um (absorption <0.20%)				AR/AR for 10,6um (absorption <0.12%)	

ACCESSORIES SUITABLE FOR SALVAGNINI®

Part No.	Ref. No.	Description	Std. Pkg.
HG 10.174	HG 10.174	Polish for laser optics, 100ml	1pc
HG 10.173	HG 10.173	Lens cleaning paper from Tiffen, sheet size 70x115mm	50pcs

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REPLACEMENT PARTS SUITABLE FOR PRIMA POWER®



HG 10.361-372



HG 10.446-452

Standard copper nozzels

Part No.	Ref. No.	Description	Std. Pkg.	Part No.	Ref. No.	Description	Std. Pkg.
HG 10.376	490.76.102	"Teach" Nozzle 0,3 mm	1 pc	HG 10.445	HG10.445	"Teach" Nozzle 0,3 mm	1 pc
HG 10.361	485.73.114D	Nozzle 1,0 mm	10 pcs	HG 10.446	HG10.446	Nozzle 1,0 mm	10 pcs
HG 10.362	485.73.114A	Nozzle 1,2 mm	10 pcs	HG 10.447	HG10.447	Nozzle 1,2 mm	10 pcs
HG 10.363	485.73.114C	Nozzle 1,5 mm (485.73.321)	10 pcs	HG 10.448	HG10.448	Nozzle 1,5 mm	10 pcs
HG 10.364	485.73.114B	Nozzle 1,7 mm	10 pcs	HG 10.449	HG10.449	Nozzle 1,7 mm	10 pcs
HG 10.370	485.73.114E	Nozzle 2,0 mm (485.73.322)	10 pcs	HG 10.450	HG10.450	Nozzle 2,0 mm	10 pcs
HG 10.371	485.73.114F	Nozzle 2,5 mm (485.73.323)	10 pcs	HG 10.451	HG10.451	Nozzle 2,5 mm	10 pcs
HG 10.372	485.73.114G	Nozzle 3,0 mm (485.73.324)	10 pcs	HG 10.452	HG10.452	Nozzle 3,0 mm	10 pcs



HG 10.365-373

Part No.	Ref. No.	Description	Std. Pkg.	Part No.	Ref. No.	Description	Std. Pkg.
HG 10.377	490.76.103	"Teach" Nozzle 0,3 mm conical	1 pc	HG 11.365	HG11.365	Nozzle 1,0 mm	10 pcs
HG 10.365	485.73.115B	Nozzle 1,0 mm	10 pcs	HG 11.366	HG11.366	Nozzle 1,2 mm	10 pcs
HG 10.366	485.73.115D	Nozzle 1,2 mm	10 pcs	HG 11.367	485.73.451	Nozzle 1,5 mm	10 pcs
HG 10.367	485.73.115A	Nozzle 1,5 mm (485.73.331)	10 pcs	HG 11.368	HG11.368	Nozzle 1,7 mm	10 pcs
HG 10.368	485.73.115E	Nozzle 1,7 mm	10 pcs	HG 11.369	485.73.452	Nozzle 2,0 mm	10 pcs
HG 10.369	485.73.115C	Nozzle 2,0 mm (485.73.333)	10 pcs	HG 11.373	485.73.453	Nozzle 2,5 mm	10 pcs
HG 10.373	485.73.115F	Nozzle 2,5 mm	10 pcs				



HG 10.545-383



HG 10.454-457



HG 10.541-544

Part No.	Ref. No.	Description	Std. Pkg.	Part No.	Ref. No.	Description	Std. Pkg.
HG 10.545	HG10.545	Nozzle 1,0 mm	1 pc	HG 10.454	LW6.1G.600	Nozzle 1,5 mm	10 pcs
HG 10.546	HG10.546	Nozzle 1,2 mm	10 pcs	HG 10.455	LW6.1G.601	Nozzle 2,0 mm	10 pcs
HG 10.380	LW6.1E.111	Nozzle 1,5 mm	10 pcs	HG 10.456	LW6.1G.602	Nozzle 2,5 mm	10 pcs
HG 10.381	LW6.1E.112	Nozzle 2,0 mm	10 pcs	HG 10.457	LW6.1G.603	Nozzle 3,0 mm	10 pcs
HG 10.547	HG10.547	Nozzle 2,3 mm	10 pcs	HG 10.541	750.42.550	Nozzle 1,5 mm Domino	10 pcs
HG 10.382	LW6.1E.113	Nozzle 2,5 mm	10 pcs	HG 10.542	750.42.551	Nozzle 2,0 mm Domino	10 pcs
HG 10.383	LW6.1E.114	Nozzle 3,0 mm	10 pcs	HG 10.543	750.42.552	Nozzle 2,5 mm Domino	10 pcs
				HG 10.544	750.42.553	Nozzle 3,0 mm Domino	10 pcs

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REPLACEMENT PARTS SUITABLE FOR PRIMA POWER®



HG 10.380-383



HG 10.361/C-372/C



HG 10.446/C-452/C

Part No.	Ref. No.	Description	Std. Pkg.	Part No.	Ref. No.	Description	Std. Pkg.
HG 11.380	HG11.380	Double Nozzle 1,2 mm	10 pcs	HG 10.371/C	485.73.114F-CP	Nozzle 2,5 mm (485.73.423)	10 pcs
HG 11.381	HG11.381	Double Nozzle 1,5 mm	10 pcs	HG 10.372/C	485.73.114G-CP	Nozzle 3,0 mm (485.73.424)	10 pcs
HG 11.382	HG11.382	Double Nozzle 2,0 mm	10 pcs	HG 10.446/C	HG10.446CP	Nozzle 1,0 mm HCP	10 pcs
HG 11.383	HG11.383	Double Nozzle 2,5 mm	10 pcs	HG 10.447/C	HG10.447CP	Nozzle 1,2 mm HCP	10 pcs
HG 10.361/C	485.73.114D-CP	Nozzle 1,0 mm	10 pcs	HG 10.448/C	HG10.448CP	Nozzle 1,5 mm HCP	10 pcs
HG 10.362/C	485.73.114A-CP	Nozzle 1,2 mm	10 pcs	HG 10.449/C	HG10.449CP	Nozzle 1,7 mm HCP	10 pcs
HG 10.363/C	485.73.114C-CP	Nozzle 1,5 mm (485.73.421)	10 pcs	HG 10.450/C	HG10.450CP	Nozzle 2,0 mm HCP	10 pcs
HG 10.364/C	485.73.114B-CP	Nozzle 1,7 mm	10 pcs	HG 10.451/C	HG10.451CP	Nozzle 2,5 mm HCP	10 pcs
HG 10.370/C	485.73.114E-CP	Nozzle 2,0 mm (485.73.422)	10 pcs	HG 10.452/C	HG10.452CP	Nozzle 3,0 mm HCP	10 pcs



HG 10.365/C-373/C

Part No.	Ref. No.	Description	Std. Pkg.	Part No.	Ref. No.	Description	Std. Pkg.
HG 10.365/C	485.73.115B-CP	Nozzle 1,0 mm	10 pcs	HG 11.365/C	HG11.365CP	Nozzle 1,0 mm	10 pcs
HG 10.366/C	485.73.115D-CP	Nozzle 1,2 mm	10 pcs	HG 11.366/C	HG11.366CP	Nozzle 1,2 mm	10 pcs
HG 10.367/C	485.73.115A-CP	Nozzle 1,5 mm (485.73.431)	10 pcs	HG 11.367/C	HG11.367CP	Nozzle 1,5 mm	10 pcs
HG 10.368/C	485.73.115E-CP	Nozzle 1,7 mm	10 pcs	HG 11.368/C	HG11.368CP	Nozzle 1,7 mm	10 pcs
HG 10.369/C	485.73.115C-CP	Nozzle 2,0 mm (485.73.433)	10 pcs	HG 11.369/C	485.73.451CP	Nozzle 2,0 mm	10 pcs
HG 10.373/C	485.73.115F-CP	Nozzle 2,5 mm	10 pcs	HG 11.373/C	HG11.373CP	Nozzle 2,5 mm	10 pcs



HG 10.545/C-383/C



HG 10.454/C-457/C

Standard copper nozzels with chromium plating

Part No.	Ref. No.	Description	Std. Pkg.	Part No.	Ref. No.	Description	Std. Pkg.
HG 10.545/C	485.73.452CP	Nozzle 1,0 mm HCP	10 pcs	HG 10.383/C	LW6.1E.114CP	Nozzle 3,0 mm HCP	10 pcs
HG 10.546/C	485.73.453CP	Nozzle 1,2 mm HCP	10 pcs	HG 10.454/C	LW6.1G.500CP	Nozzle 1,5 mm HCP	10 pcs
HG 10.380/C	LW6.1E.111CP	Nozzle 1,5 mm HCP	10 pcs	HG 10.455/C	LW6.1G.501CP	Nozzle 2,0 mm HCP	10 pcs
HG 10.381/C	LW6.1E.112CP	Nozzle 2,0 mm HCP	10 pcs	HG 10.456/C	LW6.1G.502CP	Nozzle 2,5 mm HCP	10 pcs
HG 10.547/C	HG10.547CP	Nozzle 2,3 mm HCP	10 pcs	HG 10.457/C	LW6.1G.503CP	Nozzle 3,0 mm HCP	10 pcs
HG 10.382/C	LW6.1E.113CP	Nozzle 2,5 mm HCP	10 pcs				

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REPLACEMENT PARTS SUITABLE FOR PRIMA POWER®



HG 10.541/C-544/C



HG 11.380/C-383/C

Domino copper nozzels with chromium plating

Part No.	Ref. No.	Description	Std. Pkg.	Part No.	Ref. No.	Description	Std. Pkg.
HG10.541/C	750.42.550CP	Nozzle 1,5 mm Domino HCP	10 pcs	HG 11.380/C	1059.70000.008	Double Nozzle 1,2 mm HCP	10 pcs
HG10.542/C	750.42.551CP	Nozzle 2,0 mm Domino HCP	10 pcs	HG 11.381/C	1059.70000.004	Double Nozzle 1,5 mm HCP	10 pcs
HG10.543/C	750.42.552CP	Nozzle 2,5 mm Domino HCP	10 pcs	HG 11.382/C	1059.70000.005	Double Nozzle 2,0 mm HCP	10 pcs
HG10.544/C	750.42.553CP	Nozzle 3,0 mm Domino HCP	10 pcs	HG 11.383/C	1059.70000.006	Double Nozzle 2,5 mm HCP	10 pcs

LENSES SUITABLE FOR PRIMA POWER®

Part No.	Ref. No.	Description	Std. Pkg.	Part No.	Ref. No.	Description	Std. Pkg.
HG 10.733/H	HG 10.733/H	5,00" ZnSe Meniscus lens	1pc	HG 10.733/HU	HG 10.733/HU	5,00" ZnSe Men. lens - ULTRA LOW	1pc
		High pressure lens (42bar), 38,1mm				High pressure lens (42bar), 38,1mm	
		Effective focal length: 127,0mm				Effective focal length: 127,0mm	
		Edge thickness: 9,0 mm				Edge thickness: 9,0 mm	
		AR/AR for 10,6um (absorption <0.20%)				AR/AR for 10,6um (absorption <0.15%)	
HG 10.734/H	HG 10.734/H	7,50" ZnSe Meniscus lens	1pc	HG 10.734/HU	HG 10.734/HU	7,50" ZnSe Men. lens - ULTRA LOW	1pc
		High pressure lens (42bar), 38,1mm				High pressure lens (42bar), 38,1mm	
		Effective focal length: 190,5mm				Effective focal length: 190,5mm	
		Edge thickness: 9,0 mm				Edge thickness: 9,0 mm	
		AR/AR for 10,6um (absorption <0.20%)				AR/AR for 10,6um (absorption <0.15%)	
HG 10.620/H	HG 10.620/H	5,00" ZnSe Meniscus lens	1 pc	HG 10.620/HU	HG 10.620/HU	5,00" ZnSe Men. lens - ULTRA LOW	1pc
		High pressure lens (28bar), 50,8mm				High pressure lens (28bar), 50,8mm	
		Effective focal length: 127,0mm				Effective focal length: 127,0mm	
		Edge thickness: 9,7 mm				Edge thickness: 9,7 mm	
		AR/AR for 10,6um (absorption <0.24%)				AR/AR for 10,6um (absorption <0.15%)	
HG 10.621/H	HG 10.621/H	7,50" ZnSe Meniscus lens	1 pc	HG 10.621/HU	HG 10.621/HU	7,50" ZnSe Men. lens - ULTRA LOW	1 pc
		High pressure lens (28bar), 50,8mm				High pressure lens (28bar), 50,8mm	
		Effective focal length: 190,5mm				Effective focal length: 190,5mm	
		Edge thickness: 9,7 mm				Edge thickness: 9,7 mm	
		AR/AR for 10,6um (absorption <0.24%)				AR/AR for 10,6um (absorption <0.15%)	

ACCESSORIES SUITABLE FOR PRIMA POWER®

Part No.	Ref. No.	Description	Std. Pkg.
HG 10.174	HG 10.174	Polish for laser optics, 100ml	1pc
HG 10.173	HG 10.173	Lens cleaning paper from Tiffen, sheet size 70x115mm	50pcs

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REPLACEMENT PARTS SUITABLE FOR MITSUBISHI®



HG 12.500-504



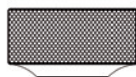
HG 12.505

Double copper inserts

Part No.	Ref. No.	Description	Std. Pkg.	Part No.	Ref. No.	Description	Std. Pkg.
HG 12.500	W390	Double nozzle insert 4-holes	10 pcs	HG 12.503	W388	Double nozzle insert 16-holes	10 pcs
HG 12.528	W270-6	Double nozzle insert 6-holes	10 pcs	HG 12.529	W389	Double nozzle insert 20-holes	10 pcs
HG 12.501	W270	Double nozzle insert 8-holes	10 pcs	HG 12.504	W515	Double nozzle insert 24-holes	10 pcs
HG 12.502	W387	Double nozzle insert 12-holes	10 pcs	HG 12.505	W269	Shield cup	10 pcs



HG 12.506-522



HG 12.530



HG 12.511

Part No.	Ref. No.	Description	Std. Pkg.	Part No.	Ref. No.	Description	Std. Pkg.
HG 12.506	HG12.506	Nozzle 1,0 mm	10 pcs	HG 12.522	W268-4.0	Nozzle 4,0 mm	10 pcs
HG 12.507	W266	Nozzle 1,5 mm	10 pcs	HG 12.532	71800016A0	Nozzle 1,0 mm	10 pcs
HG 12.508	W267	Nozzle 2,0 mm	10 pcs	HG 12.520	W777	Nozzle 1,2 mm	10 pcs
HG 12.509	W776	Nozzle 2,5 mm	10 pcs	HG 12.530	HG12.530	Nozzle nut short (15mm)	1 pc
HG 12.510	W268	Nozzle 3,0 mm	10 pcs	HG 12.511	W263	Nozzle nut long (18mm)	1 pc
HG 12.521	W268-3.5	Nozzle 3,5 mm	10 pcs				

LENSES SUITABLE FOR MITSUBISHI®

Part No.	Ref. No.	Description	Std. Pkg.	Part No.	Ref. No.	Description	Std. Pkg.
HG 15.015/H	W500	5,00" ZnSe Plano-convex lens	1pc	HG 15.029/H	HG 15.029/H	5,00" ZnSe Plano-convex lens	1pc
		High pressure lens (29bar), 38,1mm				High pressure lens (19bar), 50,8mm	
		Effective focal length: 127,0mm				Effective focal length: 127,0mm	
		Edge thickness: 7,6 mm				Edge thickness: 7,87 mm	
		AR/AR for 10,6um (absorption <0.20%)				AR/AR for 10,6um (absorption <0.20%)	
HG 15.024/H	W505	5,00" ZnSe Plano-convex lens	1pc	HG 15.002/H	W813	5,00" ZnSe Plano-convex lens	1pc
		High pressure lens (33bar), 38,1mm				High pressure lens (28bar), 50,8mm	
		Effective focal length: 127,0mm				Effective focal length: 127,0mm	
		Edge thickness: 7,87 mm				Edge thickness: 9,7 mm	
		AR/AR for 10,6um (absorption <0.20%)				AR/AR for 10,6um (absorption <0.24%)	

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Last update of this page: 07/04/2014. See Revision history for details.

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REPLACEMENT PARTS SUITABLE FOR MITSUBISHI®

LENSES SUITABLE FOR MITSUBISHI®

Part No.	Ref. No.	Description	Std. Pkg.	Part No.	Ref. No.	Description	Std. Pkg.
HG 15.028/H	W510	5,00" ZnSe Plano-convex lens	1 pc	HG 15.029/HU	W505	5,00" ZnSe Plan.-con. - ULTRA LOW	1 pc
		High pressure lens (19bar), 50,8mm				High pressure lens (19bar), 50,8mm	
		Effective focal length: 190,5mm				Effective focal length: 127,0mm	
		Edge thickness: 7,87 mm				Edge thickness: 7,87 mm	
		AR/AR for 10,6um (absorption <0.20%)				AR/AR for 10,6um (absorption <0.15%)	
HG 15.016/H	HG 15.016/H	7,50" ZnSe Plano-convex lens	1 pc	HG 15.002/HU	W813	5,00" ZnSe Plan.-con. - ULTRA LOW	1 pc
		High pressure lens (29bar), 38,1mm				High pressure lens (19bar), 50,8mm	
		Effective focal length: 190,5mm				Effective focal length: 127,0mm	
		Edge thickness: 7,6 mm				Edge thickness: 9,7 mm	
		AR/AR for 10,6um (absorption <0.20%)				AR/AR for 10,6um (absorption <0.15%)	
HG 15.003/H	W015	7,50" ZnSe Plano-convex lens	1 pc	HG 15.028/HU	W510UL	7,50" ZnSe Plan.-con. - ULTRA LOW	1 pc
		High pressure lens (29bar), 50,8mm				High pressure lens (19bar), 50,8mm	
		Effective focal length: 190,5mm				Effective focal length: 190,5mm	
		Edge thickness: 9,7 mm				Edge thickness: 7,87 mm	
		AR/AR for 10,6um (absorption <0.24%)				AR/AR for 10,6um (absorption <0.15%)	
HG 15.015/HU	W500	5,00" ZnSe Plan.-con. - ULTRA LOW	1 pc	HG 15.003/HU	W015UL	7,50" ZnSe Plan.-con. - ULTRA LOW	1 pc
		High pressure lens (29bar), 38,1mm				High pressure lens (28bar), 50,8mm	
		Effective focal length: 127,0mm				Effective focal length: 190,5mm	
		Edge thickness: 7,6 mm				Edge thickness: 9,7 mm	
		AR/AR for 10,6um (absorption <0.15%)				AR/AR for 10,6um (absorption <0.15%)	

ACCESSORIES SUITABLE FOR MITSUBISHI®

Part No.	Ref. No.	Description	Std. Pkg.
HG 10.174	HG 10.174	Polish for laser optics, 100ml	1 pc
HG 10.173	HG 10.173	Lens cleaning paper from Tiffen, sheet size 70x115mm	50pcs
HG 15.136	HG 15.136	Latex gloves	100pcs
HG 15.138	HG 15.138	EM-080 general purpose cleaning concentrate, 500ml	1 pc
HG 15.099	HG 15.099	Cleaning holder (PTFE) for lenses (to use on both sides), 38,1mm or 50,8mm	1 pc

PolyTetraFluoroEthylene is a fluorocarbon-based polymer and is commonly abbreviated PTFE. The Teflon® brand of PTFE is manufactured only by DuPont and is not sold by Thermacut. Thermacut purchases other brands of PTFE from various high quality manufacturers.

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REPLACEMENT PARTS SUITABLE FOR BALLIU®



HG 11.228

Standard copper nozzles

Part No.	Ref. No.	Description	Std. Pkg.	Part No.	Ref. No.	Description	Std. Pkg.
HG 11.220	A0700200	Nozzle 1,0 mm - 2 rings	1 pc	HG 11.225	A0700700	Nozzle 1,6 mm - 7 rings	1 pc
HG 11.221	A0700300	Nozzle 1,2 mm - 3 rings	1 pc	HG 11.226	A0700800	Nozzle 1,8 mm - 8 rings	1 pc
HG 11.222	A0700400	Nozzle 1,5 mm - 4 rings	1 pc	HG 11.227	A0700900	Nozzle 2,0 mm - 9 rings	1 pc
HG 11.223	A0700500	Nozzle 2,0 mm - 5 rings	1 pc	HG 11.228	A0700100	Nozzle 2,2 mm - 1 ring	1 pc
HG 11.224	A0700600	Nozzle 1,5 mm - 6 rings	1 pc				

REPLACEMENT PARTS SUITABLE FOR BEHRENS®



HG 11.001-003



HG 11.004-006



HG 11.007

Standard copper nozzles

Part No.	Ref. No.	Description	Std. Pkg.	Part No.	Ref. No.	Description	Std. Pkg.
HG11.001	HG 11.001	Nozzle 0,8 mm	10 pcs	HG11.004	HG 11.004	Nozzle 1,2 mm HOLMA® - Design	10 pcs
HG11.002	HG 11.002	Nozzle 1,0 mm	10 pcs	HG11.005	HG 11.005	Nozzle 1,5 mm HOLMA® - Design	10 pcs
HG11.000	HG 11.000	Nozzle 1,2 mm	10 pcs	HG11.006	HG 11.006	Nozzle 2,0 mm HOLMA® - Design	10 pcs
HG11.003	HG 11.003	Nozzle 1,5 mm	10 pcs			inside conical, regular gasflow, less whirl	10 pcs
				HG11.007	HG 11.007	Special nozzle 2,0 mm with long orifice	10 pcs

REPLACEMENT PARTS SUITABLE FOR LASAG®



HG 13.090



HG 13.080

Standard copper nozzles

Part No.	Ref. No.	Description	Std. Pkg.	Part No.	Ref. No.	Description	Std. Pkg.
HG 13.080	HG13.080	Nozzle 0,5 mm wolfram	1 pc	HG 13.081/K	45.3421K	Nozzle 0,8 mm copper	1 pc
HG 13.081	45.3421	Nozzle 0,8 mm wolfram	1 pc	HG 13.082/K	HG13.082K	Nozzle 1,0 mm copper	1 pc
HG 13.082	HG13.082	Nozzle 1,0 mm wolfram	1 pc	HG 13.083/K	HG13.083K	Nozzle 1,2 mm copper	1 pc
HG 13.083	HG13.083	Nozzle 1,2 mm wolfram	1 pc	HG 13.090	45.3645	Nozzle 1,0 mm copper	1 pc
HG 13.080/K	HG13.080K	Nozzle 0,5 mm copper	1 pc				

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REVISION HISTORY

INTRODUCTORY SECTION - Revision on PAGE 6 - 27/06/2014 - Contact information for ABICOR BINZEL MIDDLE EAST FZE added.

LASER SECTION - Revision on PAGE 13 - 27/06/2014 - New parts HG 10.496, HG 10.497 added.

INTRODUCTORY SECTION - Revision on PAGE 6 - 19/06/2014 - Contact informations for India changed.

INTRODUCTORY SECTION - Revision on PAGE 4 - 19/06/2014 - E-mail for Alexander Binzel UK Ltd added.

LASER SECTION - Revision on PAGE 15 - 19/05/2014 - Absorption of part HG 10.734/HU corrected.

LASER SECTION - Revision on PAGE 14 - 19/05/2014 - Ref. No. of parts HG10.423 and HG10.423/C corrected.

INTRODUCTORY SECTION - Revision on PAGE 6 - 06/05/2014 - Contact information for Denmark Abicor-Binzel added.

LASER SECTION - Revision on PAGES 9, 12, 13, 15, 20, 30, 31, 32, 39 - 17/04/2014 - Word "Teflon" replaced with "PTFE". Note added.

LASER SECTION - Revision on PAGE 5 - 10/04/2014 - Thermacut Australia contact information added.

LASER SECTION - All pages - 05/03/2014 - Page numbers correction.

LASER SECTION - Revision on PAGE 10 - 05/03/2014 - New product added - HG 10.033.

LASER SECTION - Revision on PAGE 10 - 05/03/2014 - New product added - HG 10.036, HG 10.036/C.

LASER SECTION - Revision on PAGE 32 - 05/03/2014 - Picture numbering revision.

INTRODUCTORY SECTION - Revision on PAGE 4 - 02/02/2014 - ООО «Термакат» and ООО «Термакат Украина ГМБХ» contact information changed.

INTRODUCTORY SECTION - Revision on PAGE 4 - 26/01/2014 - Thermacut France contact information changed.

INTRODUCTORY SECTION - Revision on PAGE 4 - 10/01/2014 - UK subsidiary changed.

INTRODUCTORY SECTION - Revision on PAGE 6 - 11/12/2013 - Page "Sales cooperation" added.

LASER SECTION - All pages - 06/11/2013 - Page numbers correction.

LASER SECTION - Revision on PAGE 24-27 - 30/10/2013 - MESSER-GRIESHEIM - name correction.

LASER SECTION - Revision on PAGE 40 - 30/10/2013 - Pictures change in Lasag part.