

# LASER CATALOG



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**THERMACUT®**  
THE CUTTING COMPANY®

v. 080626

## A PROGRESSIVE COMPANY FOR AN EVOLVING MARKET



Over a period of 28 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 products 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 in the Czech Republic, followed by a sales office there in 1996. The Czech facility was created 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 GmbH (a holding company 100% owned by the Abicor Group, 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 ten sales subsidiaries. THERMACUT® also has a close partnership with Abicor-Binzel with locations in India, the Middle East, Turkey, Belarus, Kazakhstan, Denmark, Norway, Sweden, Finland, United Kingdom, South Korea, Australia, Mexico, and Brazil. 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 in the Czech Republic.

The THERMACUT® Group has focused its efforts on providing high quality, direct replacement consumable and torch product lines that will meet or exceed the expectations of our valued customers who are cutting and welding metals thermally throughout the world. As our customer base grew, their expectations and demands also increased. 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.

By 2013, the THERMACUT® Group continued 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 satisfies ongoing requests from customers 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 evolved 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 featured a 105 amp system. THERMACUT® also had 65 and 85 amp systems on display. With this change, THERMACUT® has made clear to its customers around the world its intention to move into the position of a producer of a full range of original plasma products.

From 2016 to 2018, plasma power sources from 30 A to 125 A were gradually introduced. The HD series, along with its original torches and the patented Torch Connection System (TCS) connector, was launched in 2017 at SCHWEISSEN & SCHNEIDEN in Dusseldorf.

As with plasma cutting, THERMACUT® is the leader in the field of laser cutting technology. In 2017 at SCHWEISSEN & SCHNEIDEN, we presented the original EX-TRABEAM® laser head, which was launched in the second half of 2018.

Throughout the life of the THERMACUT® Group, we have believed that "The customer is always right." This is what motivates us to improve in all areas, starting with the development of all products and ending their sales.

"THE CUTTING COMPANY" is not just a slogan for us. It is an established practice. Join THERMACUT® in the world of cutting to discover new and alternative applications, and take full advantage of new possibilities offered by the digital cutting world.

An aerial photograph of a large industrial complex with multiple large warehouse-like buildings and parking lots, all tinted in a monochromatic orange color.

**THERMACUT®**  
THE CUTTING COMPANY®

## LARGE SALES NET



## CONTACT DETAILS | HEADQUARTERS & PRODUCTION

| COUNTRY        | COMPANY NAME    | PHONE NUMBER     | EMAILS            |
|----------------|-----------------|------------------|-------------------|
| CZECH REPUBLIC | THERMACUT, k.s. | +420 572 420 411 | info@thermacut.cz |

## SALES COOPERATION THERMACUT & ABICOR BINZEL

| COUNTRY                 | COMPANY NAME                                      | PHONE NUMBER                                                   | EMAILS                                            |
|-------------------------|---------------------------------------------------|----------------------------------------------------------------|---------------------------------------------------|
| AUSTRALIA & NEW ZEALAND | Binzel PTY Ltd.                                   | +61 (0)3 9580 6500,<br>+61 (0) 417 825 949                     | sales@thermacut.com.au,<br>james@thermacut.com.au |
| BENELUX                 | Binzel Benelux bvba                               | 0032-9- 382 90 80                                              | luc@binzel-benelux.com                            |
| BRAZIL                  | BINZEL DO BRASIL<br>INDUSTRIAL Ltda               | +55 (24) 2222-9799,<br>+55 (24) 2222-9789,<br>+(24) 98134-2676 | thermacut@thermacut.com.br                        |
| BULGARIA                | Binzel Bulgarien E00D                             | +359 2 9626941                                                 | nedkov@binzel-abicor-bg.com                       |
| CZECH REPUBLIC          | THERMACUT, k.s.                                   | +420 556 423 418,<br>+420 725 977 124                          | sales@thermacut.cz,<br>obchod@thermacut.cz        |
| CROATIA                 | ABICOR BINZEL ADRIA d.o.o.                        | +385 53 882 622                                                | thermacut@gs.t-com.hr                             |
| DENMARK                 | Abicor Binzel A/S Denmark                         | +45 32 25 05 92,<br>+45 54 33 64 18                            | abr@binzel.se                                     |
| FINLAND                 | ABICOR BINZEL Finland Oy                          | +358 2 634 4600                                                | info@binzel.fi                                    |
| FRANCE                  | THERMACUT FRANCE                                  | +33 3 88 76 25 71,<br>+33 6 08 92 51 49                        | thermacut@thermacut.fr                            |
| GERMANY                 | Alexander Binzel Schweisstechnik<br>GmbH & Co. KG | +49 (0) 64 08 / 59-0                                           | info@thermacut.de                                 |
| GREAT BRITAIN           | Abicor Binzel UK Ltd.                             | +44 1925 653944                                                | info@abimail.co.uk                                |

## SALES COOPERATION THERMACUT & ABICOR BINZEL

| COUNTRY                            | COMPANY NAME                                           | PHONE NUMBER                                               | EMAILS                                                  |
|------------------------------------|--------------------------------------------------------|------------------------------------------------------------|---------------------------------------------------------|
| CHINA                              | TMT (Shanghai) Cutting and Welding Equipment Co., Ltd. | +86 159 5121 8683                                          | lily.ding@weldstone.cn,<br>george.gao@weldstone.cn      |
| INDIA                              | ABICOR BINZEL<br>TECHNOWELD PVT LTD                    | 020-66743914,<br>020-39502691                              | commercial@abikor-india.com                             |
| JAPAN                              | BINZEL JAPAN Ltd.                                      | +81 (0) 80 47389752,<br>+81 (0) 6 7662 8857                | tmtinfo@binzel-abicor.co.jp                             |
| KAZAKHSTAN                         | ABICOR BINZEL CENTRAL<br>ASIA                          | + 7 777 826 42 42,<br>+ 7 717 262 57 30                    | info@thermacut.com.kz                                   |
| LATVIA & LITHUANIA                 | UAB Binzel Baltic                                      | +370 46 401 673                                            | stonkus@binzel-abicor.lt                                |
| MEXICO                             | BINZEL MEXICO S.A. de C.V.                             | +52 (449) 973-0116 Ext.<br>115, +52 (449) 220 6260         | info@thermacut.com.mx                                   |
| MOROCCO &<br>NORTH AND WEST AFRICA | ABICOR BINZEL MAGHREB<br>S.A.R.L                       | +212 666-074433                                            | a.kassem@thermacut.cz                                   |
| NORWAY                             | Binzel Norge AS                                        | +47-32 25 19 90                                            | post@binzel.no                                          |
| POLAND                             | THERMACUT-<br>POLAND Sp. Z o.o.                        | +48 33 852 1334,<br>+48 33 852 3971                        | thermacut@thermacut.pl                                  |
| ROMANIA                            | THERMACUT ROMANIA SRL                                  | +40 265 263 205                                            | office@thermacut.ro                                     |
| SLOVAKIA                           | THERMACUT SLOVAKIA, s.r.o                              | +421 31 591 0121,<br>+421 911 330 025                      | obchod@thermacut.sk                                     |
| SLOVENIA                           | ABICOR BINZEL Varilna<br>Tehnika d.o.o.                | +386 51 208 118                                            | goran.rajnar@binzel-abicor.si,<br>info@binzel-abicor.si |
| SLOVENIA                           | URMAT d.o.o.                                           | +386 2 620 43 70                                           | info@varjenje.net                                       |
| SOUTH AFRICA                       | ABICOR BINZEL SOUTH<br>AFRICA (PTY) LTD.               | +27 (0) 11 493 7050,<br>+27 (0) 83 276 0316                | gelderblom@binzel-abicor.com                            |
| SOUTH KOREA                        | Abicor Binzel Korea Ltd.                               | +82 (31) 732 6065<br>+82 (31) 732 6066 / 6067              | don.kim@binzel.kr                                       |
| SPAIN                              | ABICOR BINZEL IBERICA, S.L.                            | +34-9 43- 33 53 52                                         | l.oloriz@binzel.es                                      |
| SWEDEN                             | Alexander Binzel AB                                    | +46- 40 6 991 750                                          | order@binzel.se                                         |
| TURKEY                             | ABICOR BINZEL Kaynak Teknik                            | +90 (216) 367 90 00                                        | satisdestek@binzel-abicor.com.tr                        |
| UKRAINE                            | ТОВ «ТЕРМАКАТ УКРАЇНА<br>ГМБХ»                         | +38 044 403 1699,<br>+38 050 444 2245,<br>+38 050 336 3391 | info@thermacut.ua                                       |
| UNITED ARAB EMIRATES               | ABICOR BINZEL MIDDLE EAST<br>FZE                       | +971 (7) 2432355,<br>+971 50 377 1348                      | info@binzel-abicor.ae                                   |
| USA                                | Astaras, Inc.                                          | +1 (800) 932-8312,<br>+1 (603) 543-0585                    | sales@thermacut.com                                     |

## OTHER SALES COOPERATION

| COUNTRY   | COMPANY NAME                              | PHONE NUMBER        | EMAILS                      |
|-----------|-------------------------------------------|---------------------|-----------------------------|
| ARGENTINA | Maquinas Y Soldaduras<br>Sociedad Anonima | +11 45515999 / 6374 | administracion@maquisol.com |
| HUNGARY   | COOPTIM<br>HEGESZTÉSTECHNIKA Kft.         | +36 (23) 521 430    | aruhaz@cooptim.hu           |

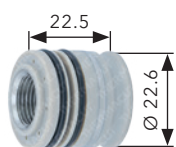


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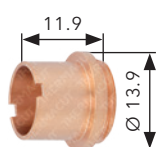
### LASER

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## THERMACUT® REPLACEMENT PARTS SUITABLE FOR AMADA®



HG11.521



HG11.522



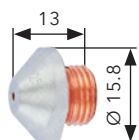
HG10.905



HG10.906

| Part No.    | Ref. No.           | Description                 | Std. Pkg. | Part No. | Ref. No.          | Description  | Std. Pkg. |
|-------------|--------------------|-----------------------------|-----------|----------|-------------------|--------------|-----------|
| HG11.521    | 71712350, 7973459  | Nozzle Holder               | 1pc       | HG10.905 | 71712349, 7973497 | Holder PTFE  | 1pc       |
| HG11.522    | 71716438, 71798350 | Nozzle Holder Insert        | 1pc       | HG10.906 | 71712344, 7973496 | Locating PIN | 10pcs     |
| HG10.826-LS | 71502036           | Nozzle Holder with 8-holes  | 1pc       |          |                   |              |           |
| HG10.827-LS | 71502036           | Nozzle Holder with 12-holes | 1pc       |          |                   |              |           |

## SUITABLE FOR AMADA® LASER AHS™ 100



HG10.508  
HG10.506

| Part No. | Ref. No.     | Description              | Std. Pkg. | Part No. | Ref. No.     | Description              | Std. Pkg. |
|----------|--------------|--------------------------|-----------|----------|--------------|--------------------------|-----------|
| HG10.508 | 62094006-1.3 | Nozzle 1.3mm M10 × 1 HCP | 10pcs     | HG10.506 | 62094006-2.0 | Nozzle 2.0mm M10 × 1 HCP | 10pcs     |

## SUITABLE FOR AMADA® F.O.™



HG10.603–HG10.614  
HG10.592–HG10.595  
HG10.599  
HG10.616, HG10.618–HG10.619

| Part No. | Ref. No.           | Description               | Std. Pkg. | Part No. | Ref. No.           | Description               | Std. Pkg. |
|----------|--------------------|---------------------------|-----------|----------|--------------------|---------------------------|-----------|
| HG10.603 | HG10.603           | Eco Cut Nozzle S1.2mm HCP | 10pcs     | HG10.607 | 71516788, 71501058 | Eco Cut Nozzle S3.0mm HCP | 10pcs     |
| HG10.604 | HG10.604           | Eco Cut Nozzle S1.4mm HCP | 10pcs     |          |                    |                           |           |
| HG10.605 | 71501056, 71712720 | Eco Cut Nozzle S1.5mm HCP | 10pcs     |          |                    |                           |           |
| HG10.606 | 71501057, 71555124 | Eco Cut Nozzle S2.0mm HCP | 10pcs     |          |                    |                           |           |

## Standard/Double copper nozzles with chromium plating

| Part No. | Ref. No.    | Description      | Std. Pkg. | Part No. | Ref. No.    | Description             | Std. Pkg. |
|----------|-------------|------------------|-----------|----------|-------------|-------------------------|-----------|
| HG10.609 | 1572362-0.8 | Nozzle 0.8mm HCP | 10pcs     | HG10.594 | 1572361-1.2 | Double Nozzle 1.2mm HCP | 10pcs     |
| HG10.619 | 1572359     | Nozzle 1.0mm HCP | 10pcs     | HG10.592 | 1572361-1.4 | Double Nozzle 1.4mm HCP | 10pcs     |
| HG10.610 | 1572362-1.2 | Nozzle 1.2mm HCP | 10pcs     | HG10.595 | 1572361-2.0 | Double Nozzle 2.0mm HCP | 10pcs     |
| HG10.613 | 1572362-1.4 | Nozzle 1.4mm HCP | 10pcs     | HG10.618 | 1572361-2.5 | Double Nozzle 2.5mm HCP | 10pcs     |
| HG10.608 | 1572362-1.5 | Nozzle 1.5mm HCP | 10pcs     | HG10.599 | 1572361-3.0 | Double Nozzle 3.0mm HCP | 10pcs     |
| HG10.611 | 1572362-2.0 | Nozzle 2.0mm HCP | 10pcs     | HG10.593 | 1572361-4.0 | Double Nozzle 4.0mm HCP | 10pcs     |
| HG10.612 | 1572362-3.0 | Nozzle 3.0mm HCP | 10pcs     | HG10.616 | 1572361-5.0 | Double Nozzle 5.0mm HCP | 10pcs     |
| HG10.614 | 1572362-4.0 | Nozzle 4.0mm HCP | 10pcs     | HG10.759 | 71515853    | PTFE ring               | 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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## THERMACUT® REPLACEMENT PARTS SUITABLE FOR AMADA® AMADA® ECO CUT SERIES

| Part No.    | Ref. No.           | Description             | Std. Pkg. | Part No.    | Ref. No.           | Description                    | Std. Pkg. |
|-------------|--------------------|-------------------------|-----------|-------------|--------------------|--------------------------------|-----------|
| HG10.754-LS | HG10.754-LS        | Eco Cut Nozzle 0.8mm CP | 10pcs     | HG10.748-LS | HG10.748-LS        | Eco Cut Double Nozzle 1.2mm CP | 10pcs     |
| HG10.755-LS | 71566685           | Eco Cut Nozzle 1.0mm CP | 10pcs     | HG10.749-LS | 71518550, 71461029 | Eco Cut Double Nozzle 1.4mm CP | 10pcs     |
| HG10.756-LS | 71502037, 71461028 | Eco Cut Nozzle 1.2mm CP | 10pcs     | HG10.750-LS | HG10.750-LS        | Eco Cut Double Nozzle 1.7mm CP | 10pcs     |
| HG10.757-LS | HG10.757-LS        | Eco Cut Nozzle 1.5mm CP | 10pcs     | HG10.751-LS | 71516789, 71501059 | Eco Cut Double Nozzle 2.5mm CP | 10pcs     |
| HG10.806-LS | HG10.806-LS        | Eco Cut Nozzle 1.7mm CP | 10pcs     | HG10.752-LS | HG10.752-LS        | Eco Cut Double Nozzle 3.0mm CP | 10pcs     |
| HG10.758-LS | HG10.758-LS        | Eco Cut Nozzle 2.0mm CP | 10pcs     | HG10.753-LS | 71516790, 71501060 | Eco Cut Double Nozzle 4.0mm CP | 10pcs     |
| HG10.804-LS | HG10.804-LS        | Eco Cut Nozzle 2.5mm CP | 10pcs     |             |                    |                                |           |
| HG10.805-LS | HG10.805-LS        | Eco Cut Nozzle 3.0mm CP | 10pcs     |             |                    |                                |           |

## SUITABLE FOR AMADA® WACS SERIES



HG10.763, HG10.765, HG10.766

| Part No. | Ref. No. | Description                   | Std. Pkg. | Part No.    | Ref. No. | Description           | Std. Pkg. |
|----------|----------|-------------------------------|-----------|-------------|----------|-----------------------|-----------|
| HG10.763 | HG10.763 | WACS Double Nozzle D1.7mm HCP | 1pc       | HG10.770    | HG10.770 | O-Ring, PTFE          | 10pcs     |
| HG10.764 | HG10.764 | WACS Double Nozzle D2.0mm HCP | 1pc       |             |          |                       |           |
| HG10.765 | 71712335 | WACS Double Nozzle D2.5mm HCP | 1pc       | HG10.789-LS | 71577490 | WACS Nozzle S1.4mm CP | 10 pcs    |
| HG10.767 | HG10.767 | WACS Double Nozzle D3.0mm HCP | 1pc       | HG10.829-LS | 71577491 | WACS Nozzle S1.6mm CP | 10 pcs    |
| HG10.768 | HG10.768 | WACS Double Nozzle D3.5mm HCP | 1pc       | HG10.830-LS | 71577492 | WACS Nozzle D2.5mm CP | 10 pcs    |
| HG10.766 | 71712336 | WACS Double Nozzle D4.0mm HCP | 1pc       | HG10.831-LS | 71577493 | WACS Nozzle D4.0mm CP | 10 pcs    |
| HG10.769 | HG10.769 | WACS Double Nozzle D5.0mm HCP | 1pc       |             |          |                       |           |
| HG10.759 | 71515853 | O-Ring, PTFE                  | 1pc       |             |          |                       |           |

## SUITABLE FOR AMADA® CLEAN CUT SERIES



HG10.701– HG10.704  
HG10.772– HG10.774, HG10.776

| Part No. | Ref. No. | Description                 | Std. Pkg. | Part No. | Ref. No. | Description                        | Std. Pkg. |
|----------|----------|-----------------------------|-----------|----------|----------|------------------------------------|-----------|
| HG10.701 | HG10.701 | Clean Cut Nozzle S1.5mm HCP | 10pcs     | HG10.773 | 71341728 | Clean Cut Double Nozzle S4.0mm HCP | 10pcs     |
| HG10.702 | 71502043 | Clean Cut Nozzle S2.0mm HCP | 10pcs     | HG10.772 | HG10.772 | Clean Cut Double Nozzle S5.0mm HCP | 10pcs     |
| HG10.703 | HG10.703 | Clean Cut Nozzle S2.5mm HCP | 10pcs     | HG10.774 | HG10.774 | Clean Cut Double Nozzle S6.0mm HCP | 10pcs     |
| HG10.704 | 71502044 | Clean Cut Nozzle S3.0mm HCP | 10pcs     | HG10.776 | 71341729 | Clean Cut Double Nozzle S7.0mm HCP | 10pcs     |

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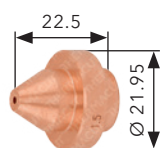
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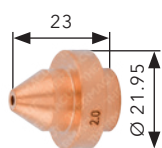
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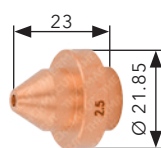
## THERMACUT® REPLACEMENT PARTS SUITABLE FOR AMADA® AMADA® LC-3015 X1™



HG12.507



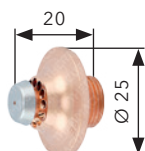
HG12.508



HG12.509

| Part No. | Ref. No.     | Description               | Std. Pkg. | Part No. | Ref. No.     | Description                     | Std. Pkg. |
|----------|--------------|---------------------------|-----------|----------|--------------|---------------------------------|-----------|
| HG11.500 | HG11.500     | Nozzle 0.8mm Fe CP        | 10pcs     | HG12.531 | OD HG12.531  | Nozzle 1.7mm                    | 10pcs     |
| HG11.501 | 71570021     | Nozzle 1.0mm Fe CP        | 10pcs     | HG12.508 | BQ943D157H02 | Nozzle 2.0mm                    | 10pcs     |
| HG11.502 | 71570020     | Nozzle 1.2mm Fe CP        | 10pcs     | HG12.509 | BQ943D157H03 | Nozzle 2.5mm                    | 10pcs     |
| HG11.503 | HG11.503     | Nozzle 1.4mm Fe CP        | 10pcs     | HG12.520 | BQ943D269H01 | Nozzle 1.2mm                    | 10pcs     |
| HG11.504 | 71570022     | Double Nozzle 2.0mm Fe CP | 10pcs     | HG12.530 | BQ933D094H01 | Nozzle Nut, Short (length 15mm) | 1pc       |
| HG11.505 | HG11.505     | Double Nozzle 2.5mm Fe CP | 10pcs     | HG12.501 | BQ943D156H01 | Double Nozzle Insert 8-holes    | 10pcs     |
| HG11.506 | HG11.506     | Double Nozzle 4.0mm Fe CP | 10pcs     | HG12.504 | BQ943D156H03 | Double Nozzle Insert 24-holes   | 10pcs     |
| HG12.507 | BQ943D157H01 | Nozzle 1.5mm              | 10pcs     |          |              |                                 |           |

## SUITABLE FOR AMADA® F.E. SERIES



HG10.790–HG10.793  
HG10.797–HG10.799  
HG10.801–HG10.803

| Part No. | Ref. No.  | Description               | Std. Pkg. | Part No. | Ref. No.  | Description                      | Std. Pkg. |
|----------|-----------|---------------------------|-----------|----------|-----------|----------------------------------|-----------|
| HG10.790 | HG10.790  | Nozzle S0.8FE             | 1pc       | HG10.791 | 71568227  | Double Nozzle D1.2FE             | 1pc       |
| HG10.907 | HG10.907  | Nozzle S0.8FE with Collar | 1pc       | HG10.913 | 71568227W | Double Nozzle D1.2FE with Collar | 1pc       |
| HG10.792 | 71570030  | Nozzle S1.0FE             | 1pc       | HG10.793 | 71571620  | Double Nozzle D1.4FE             | 1pc       |
| HG10.908 | 71570030W | Nozzle S1.0FE with Collar | 1pc       | HG10.914 | 71571620W | Double Nozzle D1.4FE with Collar | 1pc       |
| HG10.797 | 71570023  | Nozzle S1.2FE             | 1pc       | HG10.802 | HG10.802  | Double Nozzle D1.5FE             | 1pc       |
| HG10.909 | 71570023W | Nozzle S1.2FE with Collar | 1pc       | HG10.915 | HG10.915  | Double Nozzle D1.5FE with Collar | 1pc       |
| HG10.798 | HG10.798  | Nozzle S1.4FE             | 1pc       | HG10.803 | 71572665  | Double Nozzle D2.0FE             | 1pc       |
| HG10.910 | HG10.910  | Nozzle S1.4FE with Collar | 1pc       | HG10.916 | 71572665W | Double Nozzle D2.0FE with Collar | 1pc       |
| HG10.799 | HG10.799  | Nozzle S1.7FE             | 1pc       | HG10.762 | 71712340  | O-Ring, PTFE With Groove         | 10pcs     |
| HG10.911 | HG10.911  | Nozzle S1.7FE with Collar | 1pc       |          |           |                                  |           |
| HG10.801 | HG10.801  | Nozzle S2.0FE             | 1pc       |          |           |                                  |           |
| HG10.912 | HG10.912  | Nozzle S2.0FE with Collar | 1pc       |          |           |                                  |           |

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## THERMACUT® REPLACEMENT PARTS SUITABLE FOR AMADA®

| Part No.    | Ref. No.           | Description                      | Std. Pkg. | Part No.    | Ref. No.           | Description             | Std. Pkg. |
|-------------|--------------------|----------------------------------|-----------|-------------|--------------------|-------------------------|-----------|
| HG10.821-LS | 71712692           | Double Nozzle 7.0mm Silky Cut CP | 1pc       | HG10.824-LS | 71599668, 71572976 | Double Nozzle 12.0mm CP | 1pc       |
| HG10.822-LS | 71501092, 71563458 | Double Nozzle 7.0mm AL CP        | 1pc       | HG10.825-LS | 71599667           | Double Nozzle 10.0mm CP | 1pc       |

Double nozzles with chromed body

| Part No.                    | Ref. No.    | Description            | Std. Pkg. |
|-----------------------------|-------------|------------------------|-----------|
| HG10.833-LS <span>OD</span> | HG10.833-LS | Double Nozzle 3.0mm CP | 1pc       |
| HG10.834-LS <span>OD</span> | HG10.834-LS | Double Nozzle 6.0mm CP | 1pc       |

Double nozzles with chromed only tip

| Part No.                    | Ref. No.    | Description            | Std. Pkg. |
|-----------------------------|-------------|------------------------|-----------|
| HG10.835-LS <span>OD</span> | HG10.835-LS | Double Nozzle 3.0mm CP | 1pc       |
| HG10.836-LS <span>OD</span> | HG10.836-LS | Double Nozzle 6.0mm CP | 1pc       |

## LENSES SUITABLE FOR AMADA® LC-3015 X1™



HG15.028/H  
HG15.028/HU

| Part No.   | Ref. No.   | Description                          | Std. Pkg. | Part No.    | Ref. No.    | Description                          | Std. Pkg. |
|------------|------------|--------------------------------------|-----------|-------------|-------------|--------------------------------------|-----------|
| HG15.028/H | HG15.028/H | 7.50" ZnSe Plano-convex lens         | 1pc       | HG15.028/HU | HG15.028/HU | 7.50" ZnSe Plan.-con. - ULTRA LOW    | 1pc       |
|            |            | High pressure lens (19bar), 50.8mm   |           |             |             | High pressure lens (19bar), 50.8mm   |           |
|            |            | Effective focal length: 190.5mm      |           |             |             | Effective focal length: 190.5mm      |           |
|            |            | Edge thickness: 7.87mm               |           |             |             | Edge thickness: 7.87mm               |           |
|            |            | AR/AR for 10.6μm (absorption <0.20%) |           |             |             | AR/AR for 10.6μm (absorption <0.13%) |           |

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# THERMACUT® REPLACEMENT PARTS SUITABLE FOR AMADA® LENSES SUITABLE FOR AMADA®



HG10.167/H–HG10.168/H  
HG15.002/H–HG15.003/H  
HG15.005/H, HG15.015/H–HG15.016/H



HG10.167/HU–HG10.168/HU  
HG15.003/HU  
HG15.015/HU–HG15.016/HU

| Part No.   | Ref. No.   | Description                                                                                                                                                                       | Std. Pkg. | Part No.              | Ref. No.    | Description                                                                                                                                                                        | Std. Pkg. |
|------------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------------------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| HG10.167/H | M78025     | 5.00" ZnSe Meniscus lens<br>High pressure lens (29bar), 38.1mm<br>Effective focal length: 127.0mm<br>Edge thickness: 7.4mm<br>AR/AR for 10.6µm (absorption <0.20%)                | 1pc       | HG10.167/HU           | M78025UL    | 5.00" ZnSe Men. lens - ULTRA LOW<br>High pressure lens (29bar), 38.1mm<br>Effective focal length: 127.0mm<br>Edge thickness: 7.4mm<br>AR/AR for 10.6µm (absorption <0.13%)         | 1pc       |
| HG10.168/H | M78026     | 7.50" ZnSe Meniscus lens<br>High pressure lens (29bar), 38.1mm<br>Effective focal length: 190.5mm<br>Edge thickness: 7.4mm<br>AR/AR for 10.6µm (absorption <0.20%)                | 1pc       | HG10.168/HU           | M78026UL    | 7.50" ZnSe Men. lens - ULTRA LOW<br>High pressure lens (29bar), 38.1mm<br>Effective focal length: 190.5mm<br>Edge thickness: 7.4mm<br>AR/AR for 10.6µm (absorption <0.13%)         | 1pc       |
| HG15.002/H | M78037     | 5.00" ZnSe Plano-convex lens<br>High pressure lens (28bar), 50.8mm<br>Effective focal length: 127.0mm<br>Edge thickness: 9.7mm<br>AR/AR for 10.6µm (absorption <0.20%)            | 1pc       | HG15.003/HU <b>OD</b> | M78038UL    | 7.50" ZnSe Plan.-con. - ULTRA LOW<br>High pressure lens (28bar), 50.8mm<br>Effective focal length: 190.5mm<br>Edge thickness: 9.7mm<br>AR/AR for 10.6µm (absorption <0.13%)        | 1pc       |
| HG15.003/H | M78038     | 7.50" ZnSe Plano-convex lens<br>High pressure lens (28bar), 50.8mm<br>Effective focal length: 190.5mm<br>Edge thickness: 9.7mm<br>AR/AR for 10.6µm (absorption <0.20%)            | 1pc       | HG15.015/HU <b>OD</b> | HG15.015/HU | 5" ZnSe Plano-convex lens - ULTRA LOW<br>High pressure lens (29bar), 38.1mm<br>Effective focal length: 127.0mm<br>Edge thickness: 7.6mm<br>AR/AR for 10.6µm (absorption <0.13%)    | 1pc       |
| HG15.005/H | HG15.005/H | 10.0" ZnSe Plano-convex lens<br>High pressure lens (29bar), EZ-Mount TM, 50.8mm<br>Effective focal length: 254mm<br>Edge thickness: 9.6mm<br>AR/AR for 10.6µm (absorption <0.20%) | 1pc       | HG15.016/HU <b>OD</b> | HG15.016/HU | 7.50" ZnSe Plano-convex lens - ULTRA LOW<br>High pressure lens (29bar), 38.1mm<br>Effective focal length: 190.5mm<br>Edge thickness: 7.6mm<br>AR/AR for 10.6µm (absorption <0.13%) | 1pc       |
| HG15.015/H | HG15.015/H | 5" ZnSe Plano-convex lens<br>High pressure lens (29bar), 38.1mm<br>Effective focal length: 127.0mm<br>Edge thickness: 7.6mm<br>AR/AR for 10.6µm (absorption <0.20%)               | 1pc       |                       |             |                                                                                                                                                                                    |           |
| HG15.016/H | HG15.016/H | 7.50" ZnSe Plano-convex lens<br>High pressure lens (29bar), 38.1mm<br>Effective focal length: 190.5mm<br>Edge thickness: 7.8mm<br>AR/AR for 10.6µm (absorption <0.20%)            | 1pc       |                       |             |                                                                                                                                                                                    |           |

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## THERMACUT® REPLACEMENT PARTS SUITABLE FOR AMADA® PROTECTION WINDOWS SUITABLE FOR AMADA®



HG17.521



HG10.794  
HG11.795

| Part No. | Ref. No.        | Description                                     | Std. Pkg. |
|----------|-----------------|-------------------------------------------------|-----------|
| HG17.521 | 71570026        | Protection Window D33.00mm × ET = 1.50mm, 6kW   | 1pc       |
| HG10.794 | 71571308        | Protection Window D45.00mm × ET = 3.00mm, 30kW  | 1pc       |
| HG11.795 | 71598076/711079 | Protection Window D46.00mm × ET = 10.00mm, 15kW | 1pc       |

## ACCESSORIES SUITABLE FOR AMADA®



HG10.174

| Part No. | Ref. No. | Description                                             | Std. Pkg. |
|----------|----------|---------------------------------------------------------|-----------|
| HG10.174 | HG10.174 | Polish for laser optics, 250ml                          | 1pc       |
| HG10.173 | HG10.173 | Lens cleaning paper from TIFFEN®, sheet size 70 × 115mm | 50pcs     |

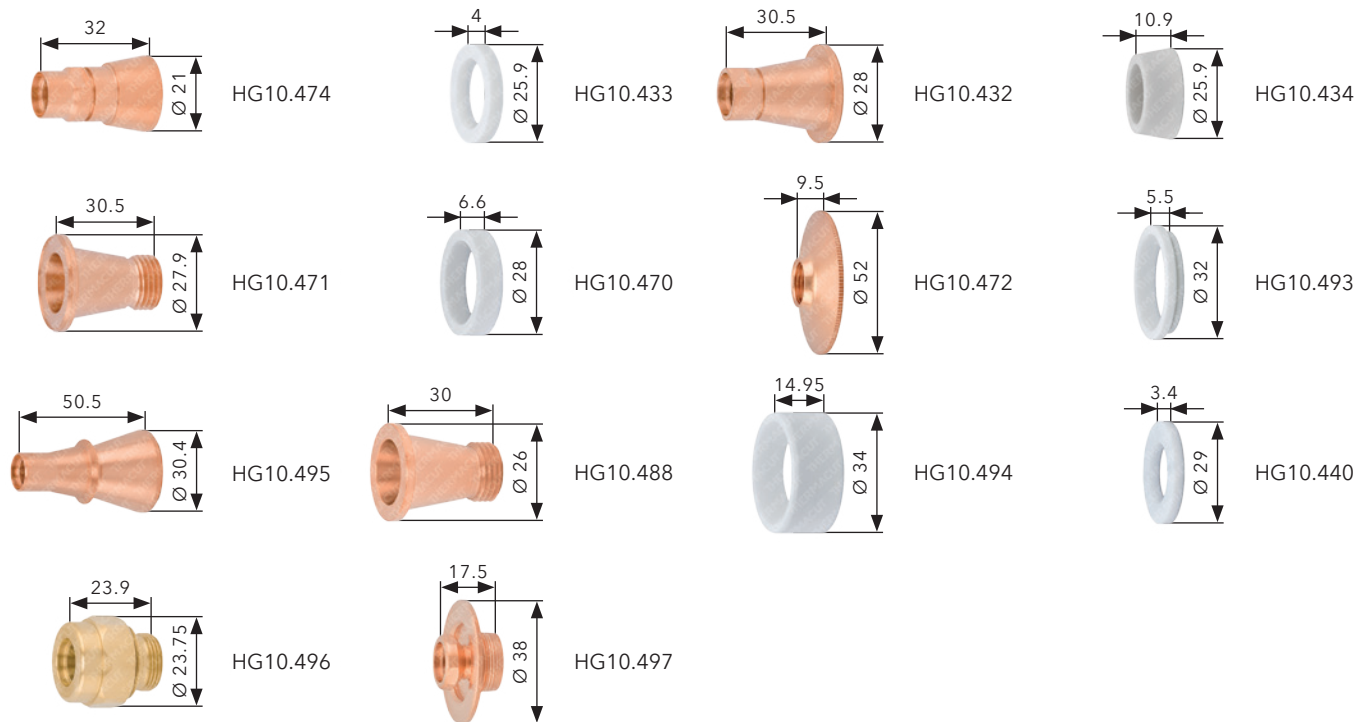
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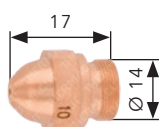
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# THERMACUT® REPLACEMENT PARTS SUITABLE FOR BYSTRONIC® BYSTRONIC® "BY" SERIES



| Part No. | Ref. No.          | Description               | Std. Pkg. | Part No.              | Ref. No. | Description             | Std. Pkg. |
|----------|-------------------|---------------------------|-----------|-----------------------|----------|-------------------------|-----------|
| HG10.474 | <b>OD</b> 3-02291 | Nozzle Body               | 1pc       | HG10.493              | 3-13113  | Insulating Ring (small) | 1pc       |
| HG10.433 | 4-01642           | Insulating Ring - Ceramic | 1pc       | HG10.495              | 2-10837  | Nozzle Body             | 1pc       |
| HG10.432 | 3-05497           | Nozzle Body               | 1pc       | HG10.488              | 10032930 | Nozzle Body             | 1pc       |
| HG10.434 | 4-01959           | Conical Ceramic           | 1pc       | HG10.494              | 3-13422  | Insulating Ring (large) | 1pc       |
| HG10.471 | 2-08701           | Nozzle Body               | 1pc       | HG10.440              | 3-06035  | Insulating Disc (PTFE)  | 1pc       |
| HG10.473 | 3-11071           | Fastener Nut              | 1pc       | HG10.496              | 10055576 | Nozzle Holder BySprint™ | 1pc       |
| HG10.470 | 4-09010           | Ceramic                   | 1pc       | HG10.497              | 10051133 | Nozzle Holder BySprint™ | 1pc       |
| HG10.472 | 2-08700           | Shield (copper)           | 1pc       | HG10.484-LS <b>OD</b> | 10032838 | Insulating Ring         | 1pc       |



HG10.403–HG10.405, HG10.408–HG10.415

| Part No. | Ref. No. | Description         | Std. Pkg. | Part No. | Ref. No.          | Description         | Std. Pkg. |
|----------|----------|---------------------|-----------|----------|-------------------|---------------------|-----------|
| HG10.403 | 3-01894  | Nozzle 1.00mm - 10  | 10pcs     | HG10.411 | 3-01902           | Nozzle 1.75mm - H17 | 10pcs     |
| HG10.404 | 3-01895  | Nozzle 1.25mm - 12  | 10pcs     | HG10.412 | 3-01903           | Nozzle 2.00mm - H20 | 10pcs     |
| HG10.405 | 3-01896  | Nozzle 1.50mm - 15  | 10pcs     | HG10.413 | 3-01905           | Nozzle 1.00mm - K10 | 10pcs     |
| HG10.408 | 3-01899  | Nozzle 1.00mm - H10 | 10pcs     | HG10.414 | <b>OD</b> 3-01906 | Nozzle 1.25mm - K12 | 10pcs     |
| HG10.409 | 3-01900  | Nozzle 1.25mm - H12 | 10pcs     | HG10.415 | 3-01907           | Nozzle 1.50mm - K15 | 10pcs     |
| HG10.410 | 3-01901  | Nozzle 1.50mm - H15 | 10pcs     |          |                   |                     |           |

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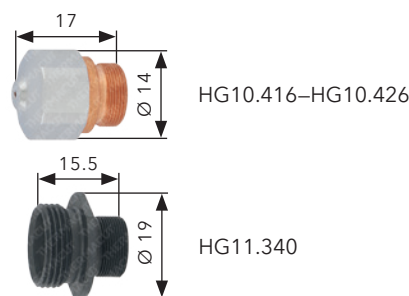
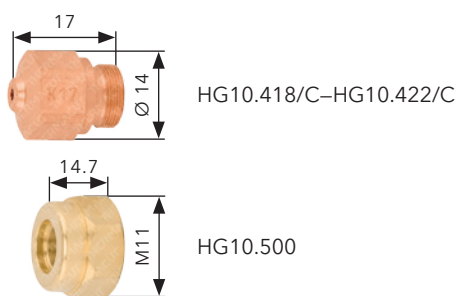
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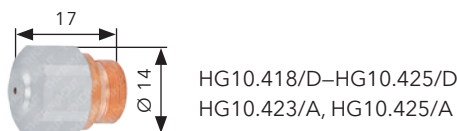
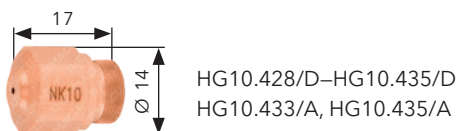
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# THERMACUT® REPLACEMENT PARTS SUITABLE FOR BYSTRONIC® BYSTRONIC® "BY" SERIES



Standard copper nozzles / Standard copper nozzles with hard chromium plating

| Part No. | Ref. No.   | Description          | Std. Pkg. | Part No.   | Ref. No.  | Description                | Std. Pkg. |
|----------|------------|----------------------|-----------|------------|-----------|----------------------------|-----------|
| HG10.500 | 10071494   | Nozzle Holder        | 1pc       | HG10.418/C | 3-01910CP | Nozzle 1.00mm - HK10 - HCP | 10pcs     |
| HG11.340 | 10075057   | Breakaway            | 10pcs     | HG10.419/C | 3-01911CP | Nozzle 1.25mm - HK12 - HCP | 10pcs     |
| HG10.418 | 3-01910    | Nozzle 1.00mm - HK10 | 10pcs     | HG10.420/C | 3-01912CP | Nozzle 1.50mm - HK15 - HCP | 10pcs     |
| HG10.419 | 3-01911    | Nozzle 1.25mm - HK12 | 10pcs     | HG10.421/C | 3-01913CP | Nozzle 1.75mm - HK17 - HCP | 10pcs     |
| HG10.420 | 3-01912    | Nozzle 1.50mm - HK15 | 10pcs     | HG10.422/C | 3-01914CP | Nozzle 2.00mm - HK20 - HCP | 10pcs     |
| HG10.421 | 3-01913    | Nozzle 1.75mm - HK17 | 10pcs     |            |           |                            |           |
| HG10.422 | 3-01914    | Nozzle 2.00mm - HK20 | 10pcs     |            |           |                            |           |
| HG10.423 | 3-03854    | Nozzle 2.50mm - HK25 | 10pcs     |            |           |                            |           |
| HG10.425 | 3-06112    | Nozzle 3.00mm - HK30 | 10pcs     |            |           |                            |           |
| HG10.424 | HG10.424   | Nozzle 3.50mm - HK35 | 10pcs     |            |           |                            |           |
| HG10.416 | 3-01908    | Nozzle 1.75mm - K17  | 10pcs     |            |           |                            |           |
| HG10.417 | OD 3-01909 | Nozzle 2.00mm - K20  | 10pcs     |            |           |                            |           |
| HG10.426 | OD 3-04274 | Nozzle 2.25mm - K25  | 10pcs     |            |           |                            |           |



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. |
|------------|-----------|---------------------------|-----------|---------------|-------------|---------------------------------|-----------|
| HG10.428/D | 3-16058   | Nozzle 1.00mm - NK10      | 10pcs     | HG10.418/D    | 3-16058CP   | Nozzle 1.00mm - NK10 - HCP      | 10pcs     |
| HG10.429/D | 3-16059   | Nozzle 1.20mm - NK12      | 10pcs     | HG10.419/D    | 3-16059CP   | Nozzle 1.20mm - NK12 - HCP      | 10pcs     |
| HG10.430/D | 3-16060   | Nozzle 1.50mm - NK15      | 10pcs     | HG10.420/D    | 3-16060CP   | Nozzle 1.50mm - NK15 - HCP      | 10pcs     |
| HG10.431/D | 3-14317   | Nozzle 1.70mm - NK17      | 10pcs     | HG10.421/D    | 3-14317CP   | Nozzle 1.70mm - NK17 - HCP      | 10pcs     |
| HG10.432/D | 3-14318   | Nozzle 2.00mm - NK20      | 10pcs     | HG10.423/D    | 3-14319CP   | Nozzle 2.50mm - NK25 - HCP      | 10pcs     |
| HG10.433/D | 3-14319   | Nozzle 2.50mm - NK25      | 10pcs     | HG10.423/A OD | 3-16256CP   | Nozzle 2.50mm - NK25 - AL - HCP | 10pcs     |
| HG10.433/A | 3-16256   | Nozzle 2.50mm - NK25 - AL | 10pcs     | HG10.425/D    | 3-16061CP   | Nozzle 3.00mm - NK30 - HCP      | 10pcs     |
| HG10.435/D | 3-16061   | Nozzle 3.00mm - NK30      | 10pcs     | HG10.425/A    | 3-16257CP   | Nozzle 3.00mm - NK30 - AL - HCP | 10pcs     |
| HG10.435/A | 3-16257   | Nozzle 3.00mm - NK30 - AL | 10pcs     | HG10.424/D    | HG10.434DCP | Nozzle 3.50mm - NK35 - HCP      | 10pcs     |
| HG10.434/D | HG10.434D | Nozzle 3.50mm - NK35      | 10pcs     |               |             |                                 |           |

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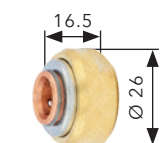
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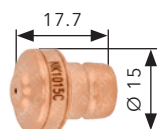
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| Part No.    | Ref. No. | Description      | Std. Pkg. | Part No.    | Ref. No. | Description      | Std. Pkg. |
|-------------|----------|------------------|-----------|-------------|----------|------------------|-----------|
| HG10.193-LS | 10089806 | Nozzle 2.0mm F20 | 10 pcs    | HG10.199-LS | 10090090 | Nozzle 5.0mm F50 | 10 pcs    |
| HG10.194-LS | 10089805 | Nozzle 2.5mm F25 | 10 pcs    | HG10.200-LS | 10089799 | Nozzle 5.5mm F55 | 10 pcs    |
| HG10.195-LS | 10089803 | Nozzle 3.0mm F30 | 10 pcs    | HG10.219-LS | 10089798 | Nozzle 6.0mm F60 | 10 pcs    |
| HG10.196-LS | 10090089 | Nozzle 3.5mm F35 | 10 pcs    |             |          |                  |           |
| HG10.197-LS | 10089802 | Nozzle 4.0mm F40 | 10 pcs    |             |          |                  |           |
| HG10.198-LS | 10089800 | Nozzle 4.5mm F45 | 10 pcs    |             |          |                  |           |

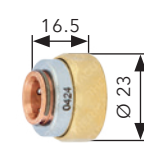
## SUITABLE FOR BYSTRONIC® HK/NK SERIES – COPPER



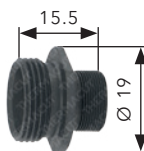
HG11.341



HG11.343-HG11.362



HG12.342



HG11.340

| Part No. | Ref. No. | Description         | Std. Pkg. | Part No. | Ref. No. | Description                   | Std. Pkg. |
|----------|----------|---------------------|-----------|----------|----------|-------------------------------|-----------|
| HG11.341 | 10077009 | Nozzle Holder       | 1pc       | HG11.352 | 10049747 | Double Nozzle 1.0mm - NK10-15 | 10pcs     |
| HG12.342 | 10074594 | Nozzle Holder       | 1pc       | HG11.353 | 10035275 | Double Nozzle 1.2mm - NK12-15 | 10pcs     |
| HG11.340 | 10075057 | Breakaway           | 10pcs     | HG11.354 | 10035278 | Double Nozzle 1.5mm - NK15-15 | 10pcs     |
| HG11.343 | 10048529 | Nozzle 0.8mm - HK8  | 10pcs     | HG11.355 | 10035290 | Double Nozzle 1.7mm - NK17-15 | 10pcs     |
| HG11.344 | 10035266 | Nozzle 1.0mm - HK10 | 10pcs     | HG11.356 | 10035292 | Double Nozzle 2.0mm - NK20-15 | 10pcs     |
| HG11.345 | 10035267 | Nozzle 1.2mm - HK12 | 10pcs     | HG11.357 | 10035294 | Double Nozzle 2.5mm - NK25-15 | 10pcs     |
| HG11.346 | 10035268 | Nozzle 1.5mm - HK15 | 10pcs     | HG11.358 | 10035296 | Double Nozzle 2.5mm - NK25-20 | 10pcs     |
| HG11.347 | 10035269 | Nozzle 1.7mm - HK17 | 10pcs     | HG11.359 | 10035298 | Double Nozzle 3.0mm - NK30-17 | 10pcs     |
| HG11.348 | 10035270 | Nozzle 2.0mm - HK20 | 10pcs     | HG11.360 | 10035301 | Double Nozzle 3.0mm - NK30-20 | 10pcs     |
| HG11.349 | 10035271 | Nozzle 2.5mm - HK25 | 10pcs     | HG11.361 | 10068496 | Double Nozzle 3.5mm - NK35-17 | 10pcs     |
| HG11.350 | 10035272 | Nozzle 3.0mm - HK30 | 10pcs     | HG11.362 | 10035302 | Double Nozzle 3.5mm - NK35-30 | 10pcs     |
| HG11.351 | 10049744 | Nozzle 3.5mm - HK35 | 10pcs     | HG11.363 | 10068496 | Double Nozzle 4.0mm - NK40-17 | 10pcs     |

## SUITABLE FOR BYSTRONIC® F SERIES – COPPER

| Part No.    | Ref. No.           | Description      | Std. Pkg. | Part No.    | Ref. No.           | Description      | Std. Pkg. |
|-------------|--------------------|------------------|-----------|-------------|--------------------|------------------|-----------|
| HG10.138-LS | 10084700           | Nozzle 2.0mm F20 | 10pcs     | HG10.142-LS | 10068494, 10090092 | Nozzle 5.0mm F50 | 10pcs     |
| HG10.139-LS | 10084701           | Nozzle 2.5mm F25 | 10pcs     | HG10.145-LS | 10086053           | Nozzle 5.5mm F55 | 10pcs     |
| HG10.140-LS | 10066333           | Nozzle 3.0mm F30 | 10pcs     | HG10.146-LS | 10086069           | Nozzle 6.0mm F60 | 10pcs     |
| HG12.451-LS | 10066332, 10090091 | Nozzle 3.5mm F35 | 10pcs     |             |                    |                  |           |
| HG10.143-LS | 10066331           | Nozzle 4.0mm F40 | 10pcs     |             |                    |                  |           |
| HG10.144-LS | 10066330           | Nozzle 4.5mm F45 | 10pcs     |             |                    |                  |           |

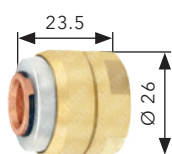
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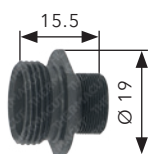
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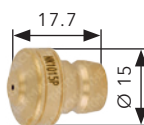
## THERMACUT® REPLACEMENT PARTS SUITABLE FOR BYSTRONIC® BYSTRONIC® HK/NK SERIES – BRASS



HG12.339



HG11.340



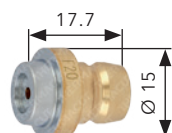
HG11.430-HG11.450

| Part No. | Ref. No.    | Description                   | Std. Pkg. | Part No. | Ref. No. | Description                   | Std. Pkg. |
|----------|-------------|-------------------------------|-----------|----------|----------|-------------------------------|-----------|
| HG12.339 | OD 10114605 | Nozzle Holder Precision™      | 1pc       | HG11.440 | 10097531 | Double Nozzle 1.5mm - NK15-15 | 10pcs     |
| HG11.340 | 10075057    | Breakaway                     | 10pcs     | HG11.441 | 10097533 | Double Nozzle 1.7mm - NK17-15 | 10pcs     |
| HG11.430 | 10097507    | Nozzle 1.0mm - HK10           | 10pcs     | HG11.450 | 10119813 | Double Nozzle 1.7mm - NK17-17 | 10pcs     |
| HG11.431 | 10097508    | Nozzle 1.2mm - HK12           | 10pcs     | HG11.442 | 10097534 | Double Nozzle 2.0mm - NK20-15 | 10pcs     |
| HG11.432 | 10097509    | Nozzle 1.5mm - HK15           | 10pcs     | HG11.443 | 10097537 | Double Nozzle 2.5mm - NK25-15 | 10pcs     |
| HG11.433 | 10097510    | Nozzle 1.7mm - HK17           | 10pcs     | HG11.444 | 10097549 | Double Nozzle 2.5mm - NK25-20 | 10pcs     |
| HG11.434 | 10097511    | Nozzle 2.0mm - HK20           | 10pcs     | HG11.445 | 10097543 | Double Nozzle 3.0mm - NK30-17 | 10pcs     |
| HG11.435 | 10097512    | Nozzle 2.5mm - HK25           | 10pcs     | HG11.446 | 10097551 | Double Nozzle 3.0mm - NK30-20 | 10pcs     |
| HG11.436 | 10097513    | Nozzle 3.0mm - HK30           | 10pcs     | HG11.447 | 10097553 | Double Nozzle 3.5mm - NK35-17 | 10pcs     |
| HG11.437 | 10097514    | Nozzle 3.5mm - HK35           | 10pcs     | HG11.448 | 10097552 | Double Nozzle 3.5mm - NK35-30 | 10pcs     |
| HG11.438 | 10097525    | Double Nozzle 1.0mm - NK10-15 | 10pcs     | HG11.449 | 10097554 | Double Nozzle 4.0mm - NK40-17 | 10pcs     |
| HG11.439 | 10097528    | Double Nozzle 1.2mm - NK12-15 | 10pcs     |          |          |                               |           |

## SUITABLE FOR BYSTRONIC® H SERIES – BRASS

| Part No.    | Ref. No. | Description      | Std. Pkg. | Part No.    | Ref. No. | Description      | Std. Pkg. |
|-------------|----------|------------------|-----------|-------------|----------|------------------|-----------|
| HG12.405-LS | 10117151 | Nozzle 1.5mm H15 | 10pcs     | HG12.409-LS | 10117154 | Nozzle 3.0mm H30 | 10pcs     |
| HG12.406-LS | 10117153 | Nozzle 1.7mm H17 | 10pcs     | HG12.410-LS | 10097152 | Nozzle 3.5mm H35 | 10pcs     |
| HG12.407-LS | 10097541 | Nozzle 2.0mm H20 | 10pcs     |             |          |                  |           |
| HG12.408-LS | 10097542 | Nozzle 2.5mm H25 | 10pcs     |             |          |                  |           |

## SUITABLE FOR BYSTRONIC® HK/NK SERIES – BRASS F SERIES



HG11.451-HG11.459

| Part No. | Ref. No. | Description      | Std. Pkg. | Part No. | Ref. No. | Description      | Std. Pkg. |
|----------|----------|------------------|-----------|----------|----------|------------------|-----------|
| HG11.451 | 10118050 | Nozzle 2.0mm F20 | 10pcs     | HG11.457 | 10118055 | Nozzle 5.0mm F50 | 10pcs     |
| HG11.452 | 10118051 | Nozzle 2.5mm F25 | 10pcs     | HG11.458 | 10118054 | Nozzle 5.5mm F55 | 10pcs     |
| HG11.453 | 10118057 | Nozzle 3.0mm F30 | 10pcs     | HG11.459 | 10118056 | Nozzle 6.0mm F60 | 10pcs     |
| HG11.454 | 10118052 | Nozzle 3.5mm F35 | 10pcs     |          |          |                  |           |
| HG11.455 | 10118053 | Nozzle 4.0mm F40 | 10pcs     |          |          |                  |           |
| HG11.456 | 10118058 | Nozzle 4.5mm F45 | 10pcs     |          |          |                  |           |

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# THERMACUT® REPLACEMENT PARTS SUITABLE FOR BYSTRONIC® LENSES SUITABLE FOR BYSTRONIC®



HG10.731/H–HG10.734/H  
HG10.729/H



HG10.733/HU–HG10.734/HU

| Part No.   | Ref. No. | Description                                                                                                                                                        | Std. Pkg. | Part No.    | Ref. No. | Description                                                                                                                                                                    | Std. Pkg. |
|------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| HG10.731/H | 4-00186  | 5.00" ZnSe Meniscus lens<br>High pressure lens (20bar), 38.1mm<br>Effective focal length: 127.0mm<br>Edge thickness: 6.0mm<br>AR/AR for 10.6µm (absorption <0.20%) | 1pc       | HG10.733/HU | 4-07475  | 5.00" ZnSe Meniscus lens - ULTRA LOW<br>High pressure lens (42bar), 38.1mm<br>Effective focal length: 127.0mm<br>Edge thickness: 9.0mm<br>AR/AR for 10.6µm (absorption <0.13%) | 1pc       |
| HG10.732/H | 4-00187  | 7.50" ZnSe Meniscus lens<br>High pressure lens (20bar), 38.1mm<br>Effective focal length: 190.5mm<br>Edge thickness: 6.0mm<br>AR/AR for 10.6µm (absorption <0.20%) | 1pc       | HG10.734/HU | 4-07476  | 7.50" ZnSe Meniscus lens - ULTRA LOW<br>High pressure lens (42bar), 38.1mm<br>Effective focal length: 190.5mm<br>Edge thickness: 9.0mm<br>AR/AR for 10.6µm (absorption <0.13%) | 1pc       |
| HG10.729/H | 4-10736  | 3.75" ZnSe Meniscus lens<br>High pressure lens (42bar), 38.1mm<br>Effective focal length: 95.3mm<br>Edge thickness: 9.0mm<br>AR/AR for 10.6µm (absorption <0.20%)  | 1pc       |             |          |                                                                                                                                                                                |           |
| HG10.733/H | 4-05094  | 5.00" ZnSe Meniscus lens<br>High pressure lens (42bar), 38.1mm<br>Effective focal length: 127.0mm<br>Edge thickness: 9.0mm<br>AR/AR for 10.6µm (absorption <0.20%) | 1pc       |             |          |                                                                                                                                                                                |           |
| HG10.734/H | 4-05095  | 7.50" ZnSe Meniscus lens<br>High pressure lens (42bar), 38.1mm<br>Effective focal length: 190.5mm<br>Edge thickness: 9.0mm<br>AR/AR for 10.6µm (absorption <0.20%) | 1pc       |             |          |                                                                                                                                                                                |           |

## PROTECTION WINDOWS SUITABLE FOR BYSTRONIC®



HG17.517

| Part No. | Ref. No.          | Description                                             | Std. Pkg. |
|----------|-------------------|---------------------------------------------------------|-----------|
| HG17.517 | 10045746          | Protection Window D36.00mm × ET = 5.0mm, 30kW           | 1pc       |
| HG11.599 | 10086368/10145862 | Protection Window D34.00mm × ET = 3.0mm, Sapphire, 12kW | 1pc       |

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## THERMACUT® REPLACEMENT PARTS SUITABLE FOR BYSTRONIC® ACCESSORIES SUITABLE FOR BYSTRONIC®



HG10.174

| Part No. | Ref. No.    | Description                                             | Std. Pkg. |
|----------|-------------|---------------------------------------------------------|-----------|
| HG10.174 | HG10.174    | Polish for laser optics, 250ml                          | 1pc       |
| HG10.173 | HG10.173    | Lens cleaning paper from TIFFEN®, sheet size 70 × 115mm | 50pcs     |
| HG15.136 | OD HG15.136 | Latex gloves                                            | 100pcs    |

## AIR FILTERS SUITABLE FOR BYSTRONIC®

| Part No. | Ref. No.    | Description                                               | Std. Pkg. |
|----------|-------------|-----------------------------------------------------------|-----------|
| HG10.176 | OD HG10.176 | Air filter for cooling aggregate<br>size: 800 × 600 × 8mm | 25pcs     |

## CONSUMABLES CASE SUITABLE FOR BYSTRONIC®

**Description:** full case with the whole range of consumables suitable for Bystronic® (without lenses and protection windows).



| Part No. | Ref. No.  | Description                            | Std. Pkg. |
|----------|-----------|----------------------------------------|-----------|
| HG3333   | OD HG3333 | Full show case suitable for Bystronic® | 1pc       |

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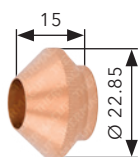
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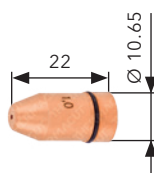
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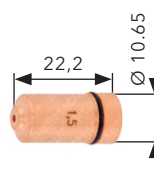
## THERMACUT® REPLACEMENT PARTS SUITABLE FOR CINCINNATI®



HG12.008



HG12.012-HG12.016  
HG12.040-HG12.042



HG12.020-HG12.021

| Part No. | Ref. No.    | Description           | Std. Pkg. | Part No. | Ref. No. | Description                   | Std. Pkg. |
|----------|-------------|-----------------------|-----------|----------|----------|-------------------------------|-----------|
| HG12.008 | OD 963021   | Tip Retainer Nut      | 1pc       | HG12.019 | 923014   | Nozzle 1.5mm (0.060")         | 10pcs     |
| HG12.012 | OD 924635-1 | Nozzle 1.0mm (0.040") | 10pcs     | HG12.020 | 924636   | Nozzle 1.5mm (0.060")         | 10pcs     |
| HG12.013 | 909660      | Nozzle 1.5mm (0.060") | 10pcs     | HG12.021 | 924637   | Nozzle 2.0mm (0.080")         | 10pcs     |
| HG12.014 | OD 910315   | Nozzle 2.0mm (0.080") | 10pcs     | HG12.041 | 913025   | Nozzle Double Blunt 1.0mm     | 10pcs     |
| HG12.015 | 924638      | Nozzle 2.5mm (0.100") | 10pcs     | HG12.042 | 913026   | Nozzle Double Blunt 1.5mm     | 10pcs     |
| HG12.016 | 924634      | Nozzle 3.0mm (0.120") | 10pcs     | HG12.040 | 914342   | Nozzle Double Blunt 1.5-2.0mm | 10pcs     |

## PROTECTION WINDOWS SUITABLE FOR CINCINNATI®



HG12.036  
HG12.037

| Part No. | Ref. No. | Description                                   | Std. Pkg. |
|----------|----------|-----------------------------------------------|-----------|
| HG12.036 | 913987   | Protection Window D38.10mm × ET = 1.6mm, 15kW | 1pc       |
| HG12.037 | 914910   | Protection Window D38.10mm × ET = 6.0mm, 30kW | 1pc       |

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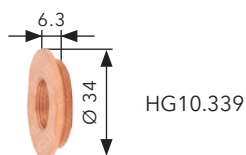
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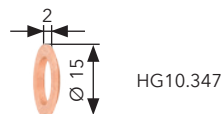
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## THERMACUT® REPLACEMENT PARTS SUITABLE FOR MAZAK®

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



HG10.339

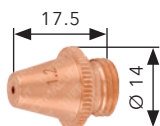


HG10.347

| Part No. | Ref. No.    | Description | Std. Pkg. | Part No. | Ref. No. | Description            | Std. Pkg. |
|----------|-------------|-------------|-----------|----------|----------|------------------------|-----------|
| HG10.339 | 46683301100 | Bracket     | 1pc       | HG10.353 | HG10.353 | Complete Nozzle Holder | 1pc       |
| HG10.347 | 46683301160 | Ring        | 1pc       |          |          |                        |           |

## SUITABLE FOR

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



HG10.308–HG10.310  
HG10.318

## Adapter copper nozzles

| Part No.    | Ref. No.     | Description                | Std. Pkg. | Part No.    | Ref. No.     | Description                | Std. Pkg. |
|-------------|--------------|----------------------------|-----------|-------------|--------------|----------------------------|-----------|
| HG10.309    | 46603350512K | Adapter Nozzle 1.2mm       | 10pcs     | HG10.477-LS | 46603350512H | Adapter-6-edgenozzle 1.2mm | 10pcs     |
| HG10.310    | 46603350515K | Adapter Nozzle 1.5mm       | 10pcs     | HG10.479-LS | 46603350517H | Adapter-6-edgenozzle 1.7mm | 10pcs     |
| HG10.318    | 46603350520K | Adapter Nozzle 2.0mm       | 10pcs     | HG10.481-LS | 46603350525H | Adapter-6-edgenozzle 2.5mm | 10pcs     |
| HG10.308    | 46603350525K | Adapter Nozzle 2.5mm       | 10pcs     | HG10.482-LS | 46603350530H | Adapter-6-edgenozzle 3.0mm | 10pcs     |
| HG10.475-LS | 46603350508H | Adapter-6-edgenozzle 0.8mm | 10pcs     |             |              |                            |           |
| HG10.476-LS | 46603350511H | Adapter-6-edgenozzle 1.0mm | 10pcs     |             |              |                            |           |

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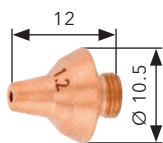
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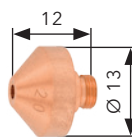
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## THERMACUT® REPLACEMENT PARTS SUITABLE FOR MAZAK® 5" C/MG, MAZAK® 5" H/MG



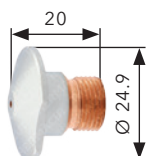
HG10.287–HG10.290  
HG10.487



HG10.295–HG10.297

| Part No.    | Ref. No.        | Description                       | Std. Pkg. | Part No.    | Ref. No.        | Description            | Std. Pkg. |
|-------------|-----------------|-----------------------------------|-----------|-------------|-----------------|------------------------|-----------|
| HG10.287    | 46713300290-12  | Nozzle 1.2mm 3D (P0352-384-00012) | 1pc       | HG10.264-LS | 46713300280-20  | Nozzle 2.0mm 3D        | 1pc       |
| HG10.288    | 46713300290-15  | Nozzle 1.5mm 3D (P0352-381-00015) | 1pc       | HG10.265-LS | 46713300280-35  | Nozzle 3.5mm 3D        | 1pc       |
| HG10.290    | 46713300310-2.0 | Nozzle 2.0mm 3D (P0352-382-00020) | 1pc       | HG13.246-LS | 06143355590     | Nozzle Pencil 4.5mm CP | 1pc       |
| HG10.487    | 46713300280-30  | Nozzle 3.0mm 3D                   | 1pc       | HG10.292-LS | 46713300310-1.2 | Nozzle 1.2mm 2D        | 1pc       |
| HG10.295    | 46713300300     | Nozzle 2.0mm 2D (P0352-387-00020) | 1pc       | HG13.238-LS | 36143312220     | Nozzle Pencil 1.2mm CP | 1pc       |
| HG10.296    | 46713300300-25  | Nozzle 2.5mm 2D                   | 1pc       | HG13.240-LS | Q6143300060     | Nozzle pencil 1.8mm CP | 1pc       |
| HG10.297    | 46713300300-30  | Nozzle 3.0mm 2D                   | 1pc       | HG13.241-LS | 36143312240     | Nozzle Pencil 2.0mm CP | 1pc       |
| HG10.486-LS | 46713300280-25  | Nozzle 2.5mm 3D (P0352-385-00025) | 1pc       | HG13.243-LS | 36143312260     | Nozzle Pencil 3.0mm CP | 1pc       |
| HG10.487-LS | 46713300280-30  | Nozzle 3.0mm 3D                   | 1pc       | HG13.244-LS | 36143312270     | Nozzle Pencil 3.5mm CP | 1pc       |
| HG10.263-LS | 46713300290-18  | Nozzle 1.8mm 3D                   | 1pc       | HG13.245-LS | 36143312280     | Nozzle Pencil 4.0mm CP | 1pc       |

## SUITABLE FOR MAZAK® HYPER GEAR NTX510™



HG10.670–HG10.673

| Part No.    | Ref. No.        | Description      | Std. Pkg. | Part No.    | Ref. No.        | Description                   | Std. Pkg. |
|-------------|-----------------|------------------|-----------|-------------|-----------------|-------------------------------|-----------|
| HG10.670    | 46143304470     | Nozzle 1.2mm HCP | 10pcs     | HG13.202-LS | 46603350530 4.0 | Nozzle 4.0mm                  | 10pcs     |
| HG10.671    | 46143304450     | Nozzle 1.5mm HCP | 10pcs     | HG13.203-LS | 46603350530 4.5 | Nozzle 4.5mm                  | 10pcs     |
| HG10.672    | 46143304460     | Nozzle 2.0mm HCP | 10pcs     | HG13.204-LS | 46603350530-5.0 | Nozzle 5.0mm                  | 10pcs     |
| HG10.673    | 46143304480     | Nozzle 2.5mm HCP | 10pcs     | HG13.248-LS | Q6143300080     | Double Nozzle Pencil 1.2mm CP | 10pcs     |
| HG10.674-LS | 46143304490     | Nozzle 3.0mm HCP | 10pcs     | HG13.249-LS | 36143312300     | Double Nozzle Pencil 1.5mm CP | 10pcs     |
| HG10.675-LS | 46143304500     | Nozzle 3.5mm HCP | 10pcs     | HG10.286-LS | 46713300290-10  | Nozzle 1.0mm 3D               | 10pcs     |
| HG10.676-LS | 46143304510     | Nozzle 4.0mm HCP | 10pcs     | HG13.206-LS | Q6713330410     | Nozzle 1.2mm 3D               | 10pcs     |
| HG13.201-LS | 46603350530-3.5 | Nozzle 3.5mm     | 10pcs     |             |                 |                               |           |

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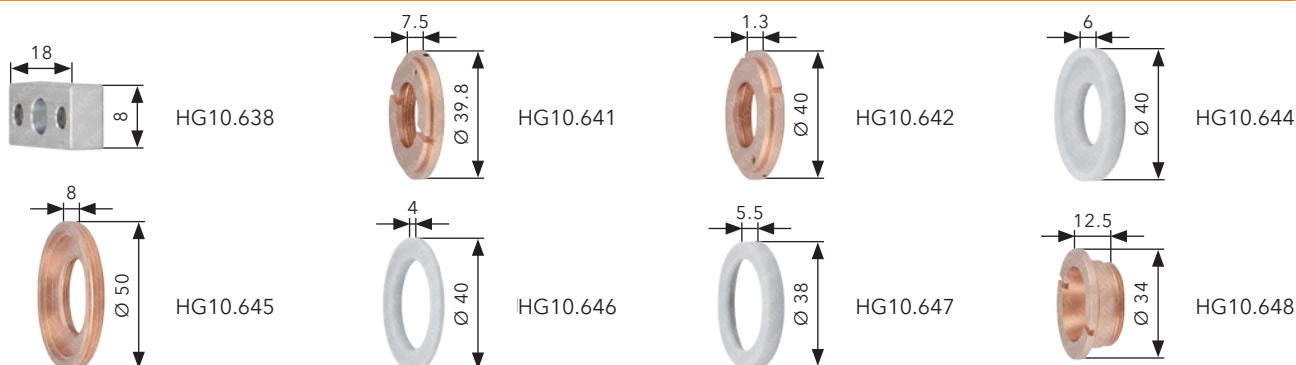
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## THERMACUT® REPLACEMENT PARTS SUITABLE FOR MAZAK®



| Part No.    | Ref. No.    | Description              | Std. Pkg. | Part No.    | Ref. No.    | Description                 | Std. Pkg. |
|-------------|-------------|--------------------------|-----------|-------------|-------------|-----------------------------|-----------|
| HG10.629    | 36143304420 | Nozzle Holder Hyper Gear | 1pc       | HG10.645    | 46143300290 | Retainer Nut                | 1pc       |
| HG10.638    | 46143308170 | Spacer                   | 1pc       | HG10.646 OD | 46143300260 | Insulator - PTFE            | 1pc       |
| HG10.639 OD | 46143308190 | Connector                | 1pc       | HG10.647 OD | 46143300270 | Insulator - PTFE            | 1pc       |
| HG10.640    | 46143300240 | Insulator - PTFE         | 1pc       | HG10.648    | 46143300280 | Retainer Nut                | 1pc       |
| HG10.641    | 46143304250 | Retainer Nut             | 1pc       | HG10.649    | 46143300320 | Ring - Brass                | 1pc       |
| HG10.642 OD | 46143307420 | Retainer Nut             | 1pc       | HG10.686    |             | Complete Head (PTFE Spacer) | 1pc       |
| HG10.643 OD | 46683301180 | Screw                    | 1pc       | HG10.687    |             | Complete Head (PTFE Spacer) | 1pc       |
| HG10.644    | 46143304440 | Insulator - PTFE         | 1pc       |             |             |                             |           |



| Part No.    | Ref. No.        | Description                | Std. Pkg. | Part No.    | Ref. No.        | Description                   | Std. Pkg. |
|-------------|-----------------|----------------------------|-----------|-------------|-----------------|-------------------------------|-----------|
| HG10.691    | 46143310341     | Nozzle 1.2mm Slim CP       | 10pcs     | HG10.708-LS | 46603350520-1.5 | Nozzle 1.5mm                  | 10pcs     |
| HG10.692    | 46143310351     | Nozzle 1.5mm Slim CP       | 10pcs     | HG10.709-LS | 46603350521-1.7 | Nozzle 1.7mm                  | 10pcs     |
| HG10.694    | 46143310361     | Nozzle 2.0mm Slim CP       | 10pcs     | HG10.710-LS | 46603350522-2.0 | Nozzle 2.0mm                  | 10pcs     |
| HG10.696    | 46143310371     | Nozzle 2.5mm Slim CP       | 10pcs     | HG10.711-LS | 46603350522-2.5 | Nozzle 2.5mm                  | 10pcs     |
| HG10.697    | 46143310381     | Nozzle 3.0mm Slim CP       | 10pcs     | HG13.262-LS | 4660335052C     | Nozzle 2.0mm CP               | 10pcs     |
| HG13.223-LS | 46143310373     | Nozzle Slim 2.5mm CP       | 10pcs     | HG13.200-LS | 4660335052B     | Nozzle 1.5mm                  | 10pcs     |
| HG13.222-LS | 46143310363     | Nozzle Slim 2.0mm CP       | 10pcs     | HG13.236-LS | 06283301190     | Nozzle Pencil 1.0mm CP        | 10pcs     |
| HG13.225-LS | 46143310403     | Nozzle Slim 4.0mm CP       | 10pcs     | HG13.239-LS | 36143312230     | Nozzle Pencil 1.5mm CP        | 10pcs     |
| HG13.224-LS | 46143310393     | Nozzle Slim 3.5mm CP       | 10pcs     | HG13.242-LS | 36143312250     | Nozzle Pencil 2.5mm CP        | 10pcs     |
| HG13.247-LS | 06143355600     | Nozzle Pencil 5.5mm CP     | 10pcs     | HG13.237-LS | 06283301030     | Nozzle Pencil 5.0mm CP        | 10pcs     |
| HG13.211-LS | 46683302420     | Double Nozzle 1.5mm CP     | 10pcs     | HG13.252-LS | 36143312320     | Double Nozzle Pencil 2.5mm CP | 10pcs     |
| HG13.213-LS | 46683302440     | Double Nozzle 2.5mm        | 10pcs     | HG13.253-LS | 36143312330     | Double Nozzle Pencil 3.0mm CP | 10pcs     |
| HG13.215-LS | Q6283300030     | Double Nozzle Smooth 6.0mm | 10pcs     | HG13.254-LS | 36143312340     | Double Nozzle Pencil 3.5mm CP | 10pcs     |
| HG13.216-LS | Q6283300020     | Double Nozzle Smooth 7.5mm | 10pcs     | HG13.255-LS | 36143312350     | Double Nozzle Pencil 4.0mm CP | 10pcs     |
| HG13.217-LS | Q6283300010     | Double Nozzle Smooth 9.5mm | 10pcs     | HG13.256-LS | Q6143312360     | Double Nozzle Pencil 4.5mm CP | 10pcs     |
| HG10.705-LS | 46603350521-0.8 | Nozzle 0.8mm               | 10pcs     | HG13.257-LS | Q6143312370     | Double Nozzle Pencil 5.0mm CP | 10pcs     |
| HG10.706-LS | 46603350521-1.0 | Nozzle 1.0mm               | 10pcs     |             |                 |                               |           |
| HG10.707-LS | 46603350521-1.2 | Nozzle 1.2mm               | 10pcs     |             |                 |                               |           |

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## THERMACUT® REPLACEMENT PARTS SUITABLE FOR MAZAK®

| Part No.    | Ref. No.    | Description                 | Std. Pkg. | Part No.    | Ref. No.    | Description                   | Std. Pkg. |
|-------------|-------------|-----------------------------|-----------|-------------|-------------|-------------------------------|-----------|
| HG10.629-LS | 36143304420 | Nozzle Holder Hyper Gear    | 1pc       | HG10.644-LS | 46143304440 | Insulator - PTFE              | 1pc       |
| HG10.631-LS | 46143300230 | Replacement Ball Kit (6pcs) | 1pc       | HG10.645-LS | 46143300290 | Retainer Nut                  | 1pc       |
| HG10.633-LS | 46143308000 | Spring Retainer - Steel     | 1pc       | HG10.646-LS | 46143300260 | Insulator - PTFE              | 1pc       |
| HG10.634-LS | 46143300220 | Spring                      | 1pc       | HG10.647-LS | 46143300270 | Insulator - PTFE              | 1pc       |
| HG10.635-LS | 36143303242 | Body                        | 1pc       | HG10.649-LS | 46143300320 | Ring - Brass                  | 1pc       |
| HG10.636-LS | 36143307980 | Aluminium Body              | 1pc       | HG10.667-LS | 36143300332 | Ring - Aluminum               | 1pc       |
| HG10.638-LS | 46143308170 | Spacer                      | 1pc       | HG10.335-LS | 46683301070 | Base                          | 1pc       |
| HG10.639-LS | 46143308190 | Connector                   | 1pc       | HG13.424-LS | J2600S03200 | O-Ring External Base - rubber | 1pc       |
| HG10.640-LS | 46143300240 | Insulator - PTFE            | 1pc       | HG13.430-LS | 36143310550 | Aluminum Body                 | 1pc       |
| HG10.345-LS | 46683301140 | Housing                     | 1pc       | HG13.423-LS | 46602350080 | Stylus Foot H9 Brass          | 1pc       |
| HG13.400-LS | 46683301920 | Cover Clips PTFE            | 1pc       | HG10.332-LS | 46683301110 | Bracket                       | 1pc       |
| HG13.427-LS | 46683301171 | Connector Assembly          | 1pc       | HG10.339-LS | 46683301100 | Bracket                       | 1pc       |
| HG10.341-LS | 46683300850 | Nozzle Holder               | 1pc       | HG13.417-LS | 46143312170 | Insulating Ring               | 1pc       |
| HG10.347-LS | 46683301160 | Ring                        | 1pc       | HG13.403-LS | 46713300321 | Vespel Nut - Space Gear       | 1pc       |
| HG13.412-LS | 46143312130 | Insulating PPS 40x4         | 1pc       | HG13.416-LS | 46143312120 | Insulating PPS 40x5           | 1pc       |
| HG10.643-LS | 46683301180 | Screw                       | 1pc       | HG13.413-LS | 46143312100 | Insulating PPS 38x5.5         | 1pc       |

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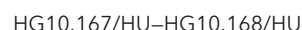
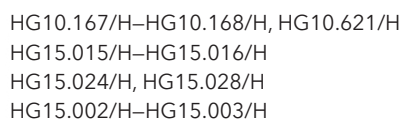
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## THERMACUT® REPLACEMENT PARTS SUITABLE FOR MAZAK® LENSES SUITABLE FOR MAZAK®



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 VIDEO AVAILABLE AT YOUTUBE CHANNEL ▶



| Part No.   | Ref. No.   | Description                          | Std. Pkg. | Part No.    | Ref. No.    | Description                          | Std. Pkg. |
|------------|------------|--------------------------------------|-----------|-------------|-------------|--------------------------------------|-----------|
| HG10.167/H | HG10.167/H | 5.00" ZnSe Meniscus lens             | 1pc       | HG15.003/H  | HG15.003/H  | 7.50" ZnSe Plano-convex lens         | 1pc       |
|            |            | High pressure lens (29bar), 38.1mm   |           |             |             | High pressure lens (28bar), 50.8mm   |           |
|            |            | Effective focal length: 127.0mm      |           |             |             | Effective focal length: 190.5mm      |           |
|            |            | Edge thickness: 7.4mm                |           |             |             | Edge thickness: 9.7mm                |           |
|            |            | AR/AR for 10.6μm (absorption <0.20%) |           |             |             | AR/AR for 10.6μm (absorption <0.20%) |           |
| HG15.015/H | HG15.015/H | 5.00" ZnSe Plano-convex lens         | 1pc       |             |             |                                      |           |
|            |            | High pressure lens (28bar), 38.1mm   |           |             |             |                                      |           |
|            |            | Effective focal length: 127.0mm      |           |             |             |                                      |           |
|            |            | Edge thickness: 7.6mm                |           |             |             |                                      |           |
|            |            | AR/AR for 10.6μm (absorption <0.20%) |           |             |             |                                      |           |
|            |            |                                      |           | Part No.    | Ref. No.    | Description                          | Std. Pkg. |
|            |            |                                      |           | HG10.167/HU | HG10.167/HU | 5.00" ZnSe Men. lens - ULTRA LOW     | 1pc       |
|            |            |                                      |           |             |             | High pressure lens (29bar), 38.1mm   |           |
| HG15.024/H | HG15.024/H | 5.00" ZnSe Plano-convex lens         | 1pc       |             |             | Effective focal length: 127.0mm      |           |
|            |            | High pressure lens (33bar), 38.1mm   |           |             |             | Edge thickness: 7.4mm                |           |
|            |            | Effective focal length: 127.0mm      |           |             |             | AR/AR for 10.6μm (absorption <0.13%) |           |
|            |            | Edge thickness: 7.87mm               |           |             |             |                                      |           |
|            |            |                                      |           | HG10.168/HU | HG10.168/HU | 7.50" ZnSe Men. lens - ULTRA LOW     | 1pc       |
|            |            | AR/AR for 10.6μm (absorption <0.20%) |           |             |             | High pressure lens (29bar), 38.1mm   |           |
| HG15.002/H | HG15.002/H | 5.00" ZnSe Plano-convex lens         | 1pc       |             |             | Effective focal length: 190.5mm      |           |
|            |            | High pressure lens (28bar), 50.8mm   |           |             |             | Edge thickness: 7.4mm                |           |
|            |            | Effective focal length: 127.0mm      |           |             |             | AR/AR for 10.6μm (absorption <0.13%) |           |
|            |            | Edge thickness: 9.7mm                |           |             |             |                                      |           |
|            |            | AR/AR for 10.6μm (absorption <0.20%) |           |             |             |                                      |           |
| HG10.168/H | HG10.168/H | 7.50" ZnSe Meniscus lens             | 1pc       |             |             |                                      |           |
|            |            | High pressure lens (29bar), 38.1mm   |           |             |             |                                      |           |
|            |            | Effective focal length: 190.5mm      |           |             |             |                                      |           |
|            |            | Edge thickness: 7.4mm                |           |             |             |                                      |           |
|            |            | AR/AR for 10.6μm (absorption <0.20%) |           |             |             |                                      |           |
| HG15.016/H | HG15.016/H | 7.50" ZnSe Plano-convex lens         | 1pc       |             |             |                                      |           |
|            |            | High pressure lens (29bar), 38.1mm   |           |             |             |                                      |           |
|            |            | Effective focal length: 190.5mm      |           |             |             |                                      |           |
|            |            | Edge thickness: 7.6mm                |           |             |             |                                      |           |
|            |            | AR/AR for 10.6μm (absorption <0.20%) |           |             |             |                                      |           |
| HG10.621/H | HG10.621/H | 7.50" ZnSe Meniscus lens             | 1pc       |             |             |                                      |           |
|            |            | High pressure lens (28bar), 50.8mm   |           |             |             |                                      |           |
|            |            | Effective focal length: 190.5mm      |           |             |             |                                      |           |
|            |            | Edge thickness: 9.7mm                |           |             |             |                                      |           |
|            |            | AR/AR for 10.6μm (absorption <0.20%) |           |             |             |                                      |           |
| HG15.028/H | HG15.028/H | 7.50" ZnSe Plano-convex lens         | 1pc       |             |             |                                      |           |
|            |            | High pressure lens (19bar), 50.8mm   |           |             |             |                                      |           |
|            |            | Effective focal length: 190.5mm      |           |             |             |                                      |           |
|            |            | Edge thickness: 7.87mm               |           |             |             |                                      |           |
|            |            | AR/AR for 10.6μm (absorption <0.20%) |           |             |             |                                      |           |

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## THERMACUT® REPLACEMENT PARTS SUITABLE FOR MAZAK®

### PROTECTION WINDOWS SUITABLE FOR MAZAK®



HG17.531

| Part No. | Ref. No.    | Description                                   | Std. Pkg. |
|----------|-------------|-----------------------------------------------|-----------|
| HG17.531 | Z50SA015350 | Protection Window D42.00mm × ET = 9.0mm, 15kW | 1pc       |

## ACCESSORIES SUITABLE FOR MAZAK®



HG10.174

| Part No. | Ref. No. | Description                                             | Std. Pkg. |
|----------|----------|---------------------------------------------------------|-----------|
| HG10.174 | HG10.174 | Polish for laser optics, 250ml                          | 1pc       |
| HG10.173 | HG10.173 | Lens cleaning paper from TIFFEN®, sheet size 70 × 115mm | 50pcs     |

## FOR US MARKET ONLY

### SUITABLE FOR MAZAK®

| Part No. | Ref. No.    | Description     | Std. Pkg. | Part No. | Ref. No.    | Description                 | Std. Pkg. |
|----------|-------------|-----------------|-----------|----------|-------------|-----------------------------|-----------|
| HG10.632 | 46143304430 | Spring Retainer | 1pc       | HG10.642 | 46143307420 | Retainer Nut                | 1pc       |
| HG10.641 | 46143304250 | Retainer Nut    | 1pc       | HG10.648 | 46143300280 | Retainer Nut                | 1pc       |
| HG10.337 | 46683300032 | Screw M5×0.5    | 1pc       | HG10.686 |             | Complete Head (PTFE Spacer) | 1pc       |
| HG10.433 | 36143310530 | H.G. Coupler    | 1pc       | HG10.687 |             | Complete Head (PTFE Spacer) | 1pc       |

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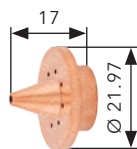
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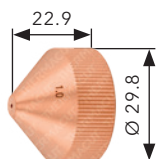
## THERMACUT® REPLACEMENT PARTS SUITABLE FOR MITSUBISHI®



HG12.501–HG12.502

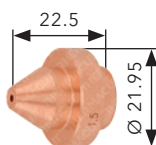
Double copper inserts

| Part No. | Ref. No. | Description                   | Std. Pkg. | Part No. | Ref. No. | Description                   | Std. Pkg. |
|----------|----------|-------------------------------|-----------|----------|----------|-------------------------------|-----------|
| HG12.501 | W270     | Double Nozzle Insert 8-holes  | 10pcs     | HG12.504 | W515     | Double Nozzle Insert 24-holes | 10pcs     |
| HG12.502 | OD W387  | Double Nozzle Insert 12-holes | 10pcs     | HG12.505 | W269     | Double Nozzle                 | 1pc       |

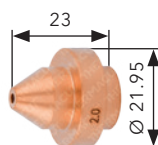


HG12.540–HG12.545

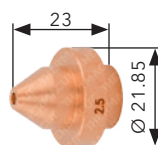
| Part No. | Ref. No. | Description  | Std. Pkg. | Part No. | Ref. No. | Description  | Std. Pkg. |
|----------|----------|--------------|-----------|----------|----------|--------------|-----------|
| HG12.540 | W1626    | Nozzle 1.0mm | 10pcs     | HG12.545 | W1629    | Nozzle 2.0mm | 10pcs     |
| HG12.541 | W1627    | Nozzle 1.2mm | 1pc       | HG12.546 | W1630    | Nozzle 2.5mm | 10pcs     |
| HG12.543 | W1628    | Nozzle 1.5mm | 10pcs     | HG12.550 | W1664    | Nozzle 3.0mm | 1pc       |
| HG12.544 | W1661    | Nozzle 1.7mm | 10pcs     | HG12.551 | W1665    | Nozzle 3.5mm | 10pcs     |



HG12.507



HG12.508



HG12.509

| Part No. | Ref. No.     | Description  | Std. Pkg. | Part No. | Ref. No. | Description             | Std. Pkg. |
|----------|--------------|--------------|-----------|----------|----------|-------------------------|-----------|
| HG12.507 | BQ943D157H01 | Nozzle 1.5mm | 10pcs     | HG12.530 | HG12.530 | Nozzle Nut Short (15mm) | 1pc       |
| HG12.508 | BQ943D157H02 | Nozzle 2.0mm | 10pcs     |          |          |                         |           |
| HG12.509 | BQ943D157H03 | Nozzle 2.5mm | 10pcs     |          |          |                         |           |
| HG12.520 | W777         | Nozzle 1.2mm | 10pcs     |          |          |                         |           |

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# THERMACUT® REPLACEMENT PARTS SUITABLE FOR MITSUBISHI® LENSES SUITABLE FOR MITSUBISHI®



HG15.002/H–HG15.003/H  
HG15.015/H–HG15.016/H  
HG15.024/H, HG15.028/H



HG15.003/HU  
HG15.015/HU, HG15.028/HU

| Part No.             | Ref. No.   | Description                          | Std. Pkg. | Part No.              | Ref. No. | Description                          | Std. Pkg. |
|----------------------|------------|--------------------------------------|-----------|-----------------------|----------|--------------------------------------|-----------|
| HG15.015/H           | W500       | 5.00" ZnSe Plano-convex lens         | 1pc       | HG15.015/HU <b>OD</b> | W500     | 5.00" ZnSe Plan.-con. - 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: 7.6mm                |           |                       |          | Edge thickness: 7.6mm                |           |
|                      |            | AR/AR for 10.6µm (absorption <0.20%) |           |                       |          | AR/AR for 10.6µm (absorption <0.13%) |           |
| HG15.024/H <b>OD</b> | W505       | 5.00" ZnSe Plano-convex lens         | 1pc       | HG15.028/HU           | W510UL   | 7.50" ZnSe Plan.-con. - ULTRA LOW    | 1pc       |
|                      |            | High pressure lens (33bar), 38.1mm   |           |                       |          | High pressure lens (19bar), 50.8mm   |           |
|                      |            | Effective focal length: 127.0mm      |           |                       |          | Effective focal length: 190.5mm      |           |
|                      |            | Edge thickness: 7.87mm               |           |                       |          | Edge thickness: 7.87mm               |           |
|                      |            | AR/AR for 10.6µm (absorption <0.20%) |           |                       |          | AR/AR for 10.6µm (absorption <0.13%) |           |
| HG15.028/H           | W510       | 7.50" ZnSe Plano-convex lens         | 1pc       | HG15.003/HU <b>OD</b> | W015UL   | 7.50" ZnSe Plan.-con. - ULTRA LOW    | 1pc       |
|                      |            | High pressure lens (19bar), 50.8mm   |           |                       |          | High pressure lens (28bar), 50.8mm   |           |
|                      |            | Effective focal length: 190.5mm      |           |                       |          | Effective focal length: 190.5mm      |           |
|                      |            | Edge thickness: 7.87mm               |           |                       |          | Edge thickness: 9.7mm                |           |
|                      |            | AR/AR for 10.6µm (absorption <0.20%) |           |                       |          | AR/AR for 10.6µm (absorption <0.13%) |           |
| HG15.016/H           | HG15.016/H | 7.50" ZnSe Plano-convex lens         | 1pc       |                       |          |                                      |           |
|                      |            | High pressure lens (29bar), 38.1mm   |           |                       |          |                                      |           |
|                      |            | Effective focal length: 190.5mm      |           |                       |          |                                      |           |
|                      |            | Edge thickness: 7.6mm                |           |                       |          |                                      |           |
|                      |            | AR/AR for 10.6µm (absorption <0.20%) |           |                       |          |                                      |           |
| HG15.002/H           | W813       | 5.00" ZnSe Plano-convex lens         | 1pc       |                       |          |                                      |           |
|                      |            | High pressure lens (28bar), 50.8mm   |           |                       |          |                                      |           |
|                      |            | Effective focal length: 127.0mm      |           |                       |          |                                      |           |
|                      |            | Edge thickness: 9.7mm                |           |                       |          |                                      |           |
|                      |            | AR/AR for 10.6µm (absorption <0.20%) |           |                       |          |                                      |           |
| HG15.003/H           | W015       | 7.50" ZnSe Plano-convex lens         | 1pc       |                       |          |                                      |           |
|                      |            | High pressure lens (29bar), 50.8mm   |           |                       |          |                                      |           |
|                      |            | Effective focal length: 190.5mm      |           |                       |          |                                      |           |
|                      |            | Edge thickness: 9.7mm                |           |                       |          |                                      |           |
|                      |            | AR/AR for 10.6µm (absorption <0.20%) |           |                       |          |                                      |           |

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## THERMACUT® REPLACEMENT PARTS SUITABLE FOR MITSUBISHI® PROTECTION WINDOWS SUITABLE FOR MITSUBISHI®



HG12.038

| Part No. | Ref. No. | Description                                   | Std. Pkg. |
|----------|----------|-----------------------------------------------|-----------|
| HG12.038 | HG12.038 | Protection Window D50.00mm × ET = 8.0mm, 15kW | 1pc       |

## ACCESSORIES SUITABLE FOR MITSUBISHI®



HG10.174

| Part No.                                     | Ref. No. | Description                                             | Std. Pkg. |
|----------------------------------------------|----------|---------------------------------------------------------|-----------|
| HG10.174                                     | HG10.174 | Polish for laser optics, 250ml                          | 1pc       |
| HG10.173                                     | HG10.173 | Lens cleaning paper from TIFFEN®, sheet size 70 × 115mm | 50pcs     |
| HG15.136 <span style="color: red;">OD</span> | HG15.136 | Latex gloves                                            | 100pcs    |

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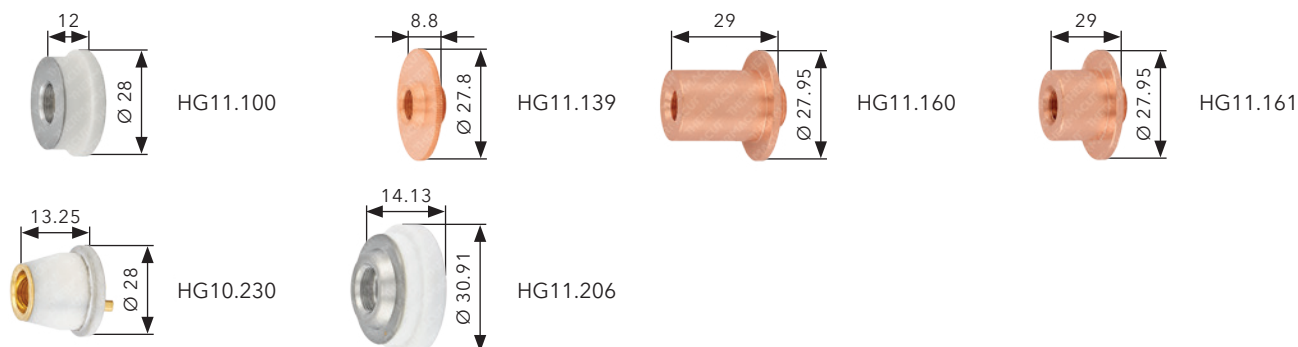
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## THERMACUT® REPLACEMENT PARTS SUITABLE FOR

Precitec®

Precitec® (Weidmüller®), ADIGE® SALA, ESAB®, GHT™, HACO®, BALLIU™, FINN-POWER®, CR electronic®, MESSER-GRIESHEIM®



| Part No. | Ref. No.         | Description                | Std. Pkg. | Part No.    | Ref. No.        | Description                | Std. Pkg. |
|----------|------------------|----------------------------|-----------|-------------|-----------------|----------------------------|-----------|
| HG11.100 | P0571-1051-00001 | Ceramic Nozzle Holder      | 1pc       |             |                 | Length 30mm - TLC®         |           |
| HG11.139 | HG11.139         | Nozzle Adapter for TRUMPF® | 1pc       | HG11.163 OD | 004.4312.034    | Nozzle Adapter for TRUMPF® | 1pc       |
|          |                  | Flatbed                    |           |             |                 | Length 20mm - TLC®         |           |
| HG11.160 | 004.4312.040     | Nozzle Adapter for TRUMPF® | 1pc       | HG10.230    | P0491-130-00001 | Ceramic Holder KT M1.5" KS | 1pc       |
|          |                  | Length 29mm - Flatbed      |           | HG11.206    | P0595-94097     | Ceramic Holder KT XB       | 1pc       |
| HG11.161 | 004.4312.032     | Nozzle Adapter for TRUMPF® | 1pc       |             |                 |                            |           |
|          |                  | Length 19mm - Flatbed      |           |             |                 |                            |           |
| HG11.162 | 004.4312.041     | Nozzle Adapter for TRUMPF® | 1pc       |             |                 |                            |           |



| Part No. | Ref. No.        | Description  | Std. Pkg. |
|----------|-----------------|--------------|-----------|
| HG11.120 | P0571-291-00010 | Nozzle 1.0mm | 10pcs     |
| HG11.121 | P0571-292-00012 | Nozzle 1.2mm | 10pcs     |
| HG11.122 | P0571-293-00015 | Nozzle 1.5mm | 10pcs     |
| HG11.123 | P0571-294-00018 | Nozzle 1.8mm | 10pcs     |
| HG11.124 | P0571-295-00020 | Nozzle 2.0mm | 10pcs     |
| HG11.125 | P0571-297-00025 | Nozzle 2.5mm | 10pcs     |

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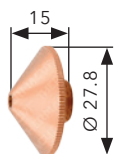
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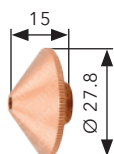
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HG11.126–HG11.138

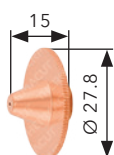
| Part No. | Ref. No.        | Description  | Std. Pkg. | Part No. | Ref. No.        | Description  | Std. Pkg. |
|----------|-----------------|--------------|-----------|----------|-----------------|--------------|-----------|
| HG11.129 | P0591-673-00008 | Nozzle 0.8mm | 10pcs     | HG11.137 | HG11.137        | Nozzle 2.7mm | 10pcs     |
| HG11.130 | P0591-571-00010 | Nozzle 1.0mm | 10pcs     | HG11.138 | P0591-577-00030 | Nozzle 3.0mm | 10pcs     |
| HG11.131 | P0591-572-00012 | Nozzle 1.2mm | 10pcs     | HG11.128 | HG11.128        | Nozzle 3.5mm | 10pcs     |
| HG11.132 | P0591-573-00015 | Nozzle 1.5mm | 10pcs     | HG11.127 | P0591-578-00040 | Nozzle 4.0mm | 10pcs     |
| HG11.133 | P0591-574-00018 | Nozzle 1.8mm | 10pcs     | HG11.126 | P0591-579-00050 | Nozzle 5.0mm | 10pcs     |
| HG11.134 | P0591-575-00020 | Nozzle 2.0mm | 10pcs     |          |                 |              |           |
| HG11.135 | HG11.135        | Nozzle 2.3mm | 10pcs     |          |                 |              |           |
| HG11.136 | P0591-576-00025 | Nozzle 2.5mm | 10pcs     |          |                 |              |           |



HG11.300–HG11.308

Standard copper nozzles / Double copper nozzles

| Part No. | Ref. No.        | Description         | Std. Pkg. | Part No.    | Ref. No.        | Description         | Std. Pkg. |
|----------|-----------------|---------------------|-----------|-------------|-----------------|---------------------|-----------|
| HG11.309 | HG11.309        | Double Nozzle 0.8mm | 10pcs     | HG11.307    | P0591-002-00030 | Double Nozzle 3.0mm | 10pcs     |
| HG11.300 | P0591-002-00010 | Double Nozzle 1.0mm | 10pcs     | HG11.308    | P0591-002-00035 | Double Nozzle 3.5mm | 10pcs     |
| HG11.301 | P0591-002-00012 | Double Nozzle 1.2mm | 10pcs     | HG10.276-LS | P0591-002-00040 | Double Nozzle 4.0mm | 10pcs     |
| HG11.302 | P0591-002-00015 | Double Nozzle 1.5mm | 10pcs     | HG10.277-LS | P0591-002-00050 | Double Nozzle 5.0mm | 10pcs     |
| HG11.303 | P0591-002-00018 | Double Nozzle 1.8mm | 10pcs     | HG11.150    | P0571-281-00010 | Nozzle 1.0mm        | 10pcs     |
| HG11.304 | P0591-002-00020 | Double Nozzle 2.0mm | 10pcs     |             |                 |                     |           |
| HG11.305 | P0591-002-00023 | Double Nozzle 2.3mm | 10pcs     |             |                 |                     |           |
| HG11.306 | P0591-002-00025 | Double Nozzle 2.5mm | 10pcs     |             |                 |                     |           |



HG11.101–HG11.106, HG11.108

Standard copper nozzles / Double copper nozzles

| Part No. | Ref. No.        | Description  | Std. Pkg. | Part No.    | Ref. No.        | Description         | Std. Pkg. |
|----------|-----------------|--------------|-----------|-------------|-----------------|---------------------|-----------|
| HG11.101 | P0591-569-00008 | Nozzle 0.8mm | 10pcs     | HG11.108    | P0591-566-00025 | Nozzle 2.5mm        | 10pcs     |
| HG11.102 | P0591-561-00010 | Nozzle 1.0mm | 10pcs     | HG10.715-LS | 6930250001      | Double Nozzle 0.8mm | 10pcs     |
| HG11.103 | P0591-562-00012 | Nozzle 1.2mm | 10pcs     | HG10.716-LS | 6930250002      | Double Nozzle 1.0mm | 10pcs     |
| HG11.104 | P0591-563-00015 | Nozzle 1.5mm | 10pcs     | HG10.717-LS | 6930250003      | Double Nozzle 1.2mm | 10pcs     |
| HG11.105 | P0591-564-00018 | Nozzle 1.8mm | 10pcs     | HG10.718-LS | 6930250004      | Double Nozzle 1.5mm | 10pcs     |
| HG11.106 | P0591-565-00020 | Nozzle 2.0mm | 10pcs     |             |                 |                     |           |

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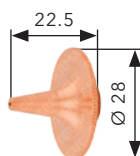
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HG11.020–HG11.024

| Part No. | Ref. No.         | Description  | Std. Pkg. | Part No. | Ref. No.         | Description  | Std. Pkg. |
|----------|------------------|--------------|-----------|----------|------------------|--------------|-----------|
| HG11.020 | P0578-0411-00010 | Nozzle 1.0mm | 10pcs     | HG11.024 | P0578-0415-00020 | Nozzle 2.0mm | 10pcs     |
| HG11.021 | P0578-0412-00012 | Nozzle 1.2mm | 10pcs     |          |                  |              |           |
| HG11.022 | P0578-0413-00015 | Nozzle 1.5mm | 10pcs     |          |                  |              |           |
| HG11.023 | P0578-0414-00018 | Nozzle 1.8mm | 10pcs     |          |                  |              |           |

### Long copper nozzles

| Part No. | Ref. No.        | Description       | Std. Pkg. | Part No. | Ref. No.        | Description       | Std. Pkg. |
|----------|-----------------|-------------------|-----------|----------|-----------------|-------------------|-----------|
| HG11.141 | P0573-562-00012 | Long Nozzle 1.2mm | 10pcs     | HG11.146 | P0573-566-00025 | Long Nozzle 2.5mm | 10pcs     |
| HG11.142 | P0573-563-00015 | Long Nozzle 1.5mm | 10pcs     | HG11.147 | HG11.147        | Long Nozzle 3.0mm | 10pcs     |
| HG11.144 | P0573-564-00020 | Long Nozzle 2.0mm | 10pcs     |          |                 |                   |           |
| HG11.145 | P0573-565-00023 | Long Nozzle 2.3mm | 10pcs     |          |                 |                   |           |

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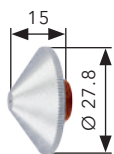
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Precitec®

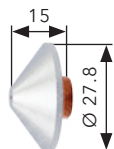
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HG11.129/C–HG11.134/C

Standard copper nozzles with chromium plating

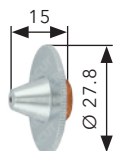
| Part No.             | Ref. No.          | Description      | Std. Pkg. | Part No.             | Ref. No.          | Description      | Std. Pkg. |
|----------------------|-------------------|------------------|-----------|----------------------|-------------------|------------------|-----------|
| HG11.129/C <b>OD</b> | P0591-673-00008CP | Nozzle 0.8mm HCP | 10pcs     | HG11.135/C <b>OD</b> | HG11.135CP        | Nozzle 2.3mm HCP | 10pcs     |
| HG11.130/C           | P0591-571-00010CP | Nozzle 1.0mm HCP | 10pcs     | HG11.136/C           | P0591-576-00025CP | Nozzle 2.5mm HCP | 10pcs     |
| HG11.131/C           | P0591-572-00012CP | Nozzle 1.2mm HCP | 10pcs     | HG11.137/C           | HG11.137CP        | Nozzle 2.7mm HCP | 10pcs     |
| HG11.132/C           | P0591-573-00015CP | Nozzle 1.5mm HCP | 10pcs     | HG11.138/C           | P0591-577-00030CP | Nozzle 3.0mm HCP | 10pcs     |
| HG11.133/C <b>OD</b> | P0591-574-00018CP | Nozzle 1.8mm HCP | 10pcs     | HG11.128/C           | HG11.128CP        | Nozzle 3.5mm HCP | 10pcs     |
| HG11.134/C           | P0591-575-00020CP | Nozzle 2.0mm HCP | 10pcs     |                      |                   |                  |           |



HG11.300/C–HG11.304/C

Double copper nozzles with chromium plating

| Part No.   | Ref. No.          | Description             | Std. Pkg. | Part No.             | Ref. No.          | Description             | Std. Pkg. |
|------------|-------------------|-------------------------|-----------|----------------------|-------------------|-------------------------|-----------|
| HG11.300/C | P0591-002-00010CP | Double Nozzle 1.0mm HCP | 10pcs     | HG11.306/C           | P0591-002-00025CP | Double Nozzle 2.5mm HCP | 10pcs     |
| HG11.301/C | P0591-002-00012CP | Double Nozzle 1.2mm HCP | 10pcs     | HG11.307/C           | P0591-002-00030CP | Double Nozzle 3.0mm HCP | 10pcs     |
| HG11.302/C | P0591-002-00015CP | Double Nozzle 1.5mm HCP | 10pcs     | HG11.308/C <b>OD</b> | P0591-002-00035CP | Double Nozzle 3.5mm HCP | 10pcs     |
| HG11.303/C | P0591-002-00018CP | Double Nozzle 1.8mm HCP | 10pcs     |                      |                   |                         |           |
| HG11.304/C | P0591-002-00020CP | Double Nozzle 2.0mm HCP | 10pcs     |                      |                   |                         |           |
| HG11.305/C | P0591-002-00023CP | Double Nozzle 2.3mm HCP | 10pcs     |                      |                   |                         |           |



HG11.103/C–HG11.104/C

Standard copper nozzles with chromium plating

| Part No.             | Ref. No.          | Description      | Std. Pkg. | Part No.   | Ref. No.          | Description      | Std. Pkg. |
|----------------------|-------------------|------------------|-----------|------------|-------------------|------------------|-----------|
| HG11.103/C <b>OD</b> | P0591-562-00012CP | Nozzle 1.2mm HCP | 10pcs     | HG11.110/C | P0591-568-00030CP | Nozzle 3.0mm HCP | 10pcs     |
| HG11.104/C <b>OD</b> | P0591-563-00015CP | Nozzle 1.5mm HCP | 10pcs     |            |                   |                  |           |
| HG11.106/C           | P0591-565-00020CP | Nozzle 2.0mm HCP | 10pcs     |            |                   |                  |           |
| HG11.109/C           | HG11.109CP        | Nozzle 2.7mm HCP | 10pcs     |            |                   |                  |           |

**OD** ON DEMAND – WE DO NOT KEEP THESE PARTS IN STOCK, COST IS SET ACCORDING TO THE ORDERED QUANTITY, DELIVERY TIME MAY DIFFER FROM STANDARD PRODUCTS.

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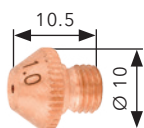
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## THERMACUT® REPLACEMENT PARTS SUITABLE FOR Precitec® Precitec® (Weidmüller®) 5" KN/MG



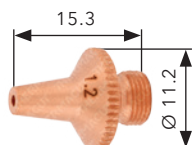
HG10.217–HG10.218  
HG10.208  
HG10.222–HG10.223

Standard copper nozzles

| Part No. | Ref. No.        | Description               | Std. Pkg. | Part No. | Ref. No.    | Description               | Std. Pkg. |
|----------|-----------------|---------------------------|-----------|----------|-------------|---------------------------|-----------|
| HG10.217 | P0494-853-00010 | Nozzle 1.0mm              | 10pcs     | HG10.226 | HG10.226    | Slop-Cutting Nozzle 1.2mm | 10pcs     |
| HG10.208 | P0494-854-00012 | Nozzle 1.2mm              | 10pcs     | HG10.220 | OD HG10.220 | Slop-Cutting Nozzle 1.4mm | 10pcs     |
| HG10.218 | P0494-855-00015 | Nozzle 1.5mm              | 10pcs     | HG10.221 | OD HG10.221 | Slop-Cutting Nozzle 1.7mm | 10pcs     |
| HG10.222 | P0494-856-00017 | Nozzle 1.7mm              | 10pcs     |          |             |                           |           |
| HG10.223 | P0494-857-00020 | Nozzle 2.0mm              | 10pcs     |          |             |                           |           |
| HG10.225 | HG10.225        | Slop-Cutting Nozzle 1.0mm | 10pcs     |          |             |                           |           |

| Part No.    | Ref. No.        | Description  | Std. Pkg. | Part No.    | Ref. No.        | Description  | Std. Pkg. |
|-------------|-----------------|--------------|-----------|-------------|-----------------|--------------|-----------|
| HG10.818-LS | P0494-787-00010 | Nozzle 1.0mm | 10pcs     | HG10.823-LS | P0494-786-00020 | Nozzle 2.0mm | 10pcs     |
| HG10.819-LS | P0494-788-00012 | Nozzle 1.2mm | 10pcs     |             |                 |              |           |
| HG10.821-LS | P0494-789-00015 | Nozzle 1.5mm | 10pcs     |             |                 |              |           |
| HG10.822-LS | P0494-785-00018 | Nozzle 1.8mm | 10pcs     |             |                 |              |           |

## SUITABLE FOR Precitec® DE YR30



HG11.010  
HG11.011  
HG11.012

| Part No.    | Ref. No.        | Description  | Std. Pkg. | Part No. | Ref. No.            | Description  | Std. Pkg. |
|-------------|-----------------|--------------|-----------|----------|---------------------|--------------|-----------|
| HG11.010    | P0787-481-00010 | Nozzle 1.0mm | 10pcs     | HG11.014 | OD P0787-1001-00020 | Nozzle 2.0mm | 10pcs     |
| HG11.011    | P0787-482-00012 | Nozzle 1.2mm | 10pcs     |          |                     |              |           |
| HG11.012    | P0787-483-00015 | Nozzle 1.5mm | 10pcs     |          |                     |              |           |
| HG10.824-LS | P0787-481-00017 | Nozzle 1.7mm | 10pcs     |          |                     |              |           |

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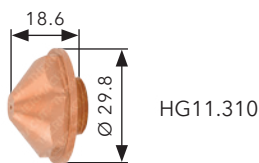
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## THERMACUT® REPLACEMENT PARTS SUITABLE FOR Precitec® Precitec® KTX SERIES



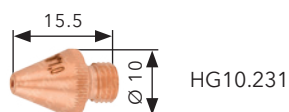
HG11.310

| Part No. | Ref. No.    | Description         | Std. Pkg. | Part No. | Ref. No.    | Description         | Std. Pkg. |
|----------|-------------|---------------------|-----------|----------|-------------|---------------------|-----------|
| HG11.110 | P0595-92036 | Ceramic Holder KTX  | 1pc       | HG11.323 | P0595-92881 | Double Nozzle 1.4mm | 10pcs     |
| HG11.310 | P0595-94263 | Nozzle 1.0mm        | 10pcs     | HG11.324 | P0595-92883 | Double Nozzle 1.5mm | 10pcs     |
| HG11.311 | P0595-92688 | Nozzle 1.2mm        | 10pcs     | HG11.325 | P0595-92886 | Double Nozzle 1.8mm | 10pcs     |
| HG11.312 | P0595-92733 | Nozzle 1.5mm        | 10pcs     | HG11.326 | P0595-92901 | Double Nozzle 2.0mm | 10pcs     |
| HG11.313 | P0595-92734 | Nozzle 1.7mm        | 10pcs     | HG11.327 | P0595-92904 | Double Nozzle 2.3mm | 10pcs     |
| HG11.314 | P0595-92735 | Nozzle 2.0mm        | 10pcs     | HG11.328 | P0595-92906 | Double Nozzle 2.5mm | 10pcs     |
| HG11.315 | P0595-92736 | Nozzle 2.5mm        | 10pcs     | HG11.329 | P0595-92909 | Double Nozzle 3.0mm | 10pcs     |
| HG11.316 | P0595-92737 | Nozzle 3.0mm        | 10pcs     | HG11.330 | P0595-92911 | Double Nozzle 3.5mm | 10pcs     |
| HG11.317 | P0595-92738 | Nozzle 3.5mm        | 10pcs     | HG11.331 | P0595-92913 | Double Nozzle 4.0mm | 10pcs     |
| HG11.318 | P0595-92739 | Nozzle 4.0mm        | 10pcs     | HG11.332 | P0595-92915 | Double Nozzle 4.5mm | 10pcs     |
| HG11.319 | P0595-92741 | Nozzle 5.0mm        | 10pcs     | HG11.333 | P0595-92917 | Double Nozzle 5.0mm | 10pcs     |
| HG11.320 | P0595-92868 | Double Nozzle 0.8mm | 10pcs     |          |             |                     |           |
| HG11.321 | P0595-92871 | Double Nozzle 1.0mm | 10pcs     |          |             |                     |           |
| HG11.322 | P0595-92879 | Double Nozzle 1.2mm | 10pcs     |          |             |                     |           |

## SUITABLE FOR BLM® ADIGE™ SERIES



HG11.250



HG10.231

| Part No. | Ref. No.        | Description                | Std. Pkg. | Part No. | Ref. No.   | Description      | Std. Pkg. |
|----------|-----------------|----------------------------|-----------|----------|------------|------------------|-----------|
| HG11.250 | P0494-752-00001 | Ceramic Holder KT M1.5" KN | 1pc       | HG10.234 | 6930250034 | Nozzle TCL 1.8mm | 10pcs     |
| HG10.231 | 6930250031      | Nozzle TCL 1.0mm           | 10pcs     | HG10.235 | 6930250035 | Nozzle TCL 2.0mm | 10pcs     |
| HG10.232 | 6930250032      | Nozzle TCL 1.2mm           | 10pcs     | HG10.236 | 6930250036 | Nozzle TCL 2.5mm | 10pcs     |
| HG10.233 | 6930250033      | Nozzle TCL 1.5mm           | 10pcs     | HG10.237 | 6930250044 | Nozzle TCL 3.0mm | 10pcs     |

## PROTECTION WINDOWS SUITABLE FOR BLM® ADIGE™ SERIES



HG17.526  
HG17.524

| Part No. | Ref. No.   | Description                                   | Std. Pkg. |
|----------|------------|-----------------------------------------------|-----------|
| HG17.526 | 6930003298 | Protection Window D30.00mm × ET = 5.0mm, 15kW | 1pc       |
| HG17.524 | 6930003333 | Protection Window D37.00mm × ET = 7.0mm, 30kW | 1pc       |

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# THERMACUT® REPLACEMENT PARTS SUITABLE FOR Precitec® LENSES SUITABLE FOR Precitec®



HG10.731/H–HG10.734/H  
HG10.166/H–HG10.168/H  
HG10.621/H  
HG15.002/H–HG15.003/H



HG10.167/HU–HG10.168/HU  
HG10.733/HU–HG10.734/HU  
HG15.003/HU

| Part No.   | Ref. No.   | Description                                                                                                                                                        | Std. Pkg. | Part No.                  | Ref. No.    | Description                                                                                                                                                                 | Std. Pkg. |
|------------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|---------------------------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| HG10.731/H | HG10.731/H | 5.00" ZnSe Meniscus lens<br>High pressure lens (20bar), 38.1mm<br>Effective focal length: 127.0mm<br>Edge thickness: 6.0mm<br>AR/AR for 10.6µm (absorption <0.20%) | 1pc       | HG15.002/H                | HG15.002/H  | 5.00" ZnSe Plano-convex lens<br>High pressure lens (28bar), 50.8mm<br>Effective focal length: 127.0mm<br>Edge thickness: 9.7mm<br>AR/AR for 10.6µm (absorption <0.20%)      | 1pc       |
| HG10.732/H | HG10.732/H | 7.50" ZnSe Meniscus lens<br>High pressure lens (20bar), 38.1mm<br>Effective focal length: 190.5mm<br>Edge thickness: 6.0mm<br>AR/AR for 10.6µm (absorption <0.20%) | 1pc       | HG15.003/H                | HG15.003/H  | 7.50" ZnSe Plano-convex lens<br>High pressure lens (28bar), 50.8mm<br>Effective focal length: 190.5mm<br>Edge thickness: 9.7mm<br>AR/AR for 10.6µm (absorption <0.20%)      | 1pc       |
| HG10.166/H | HG10.166/H | 3.75" ZnSe Meniscus lens<br>High pressure lens (29bar), 38.1mm<br>Effective focal length: 95.3mm<br>Edge thickness: 7.4mm<br>AR/AR for 10.6µm (absorption <0.20%)  | 1pc       |                           |             |                                                                                                                                                                             |           |
| HG10.167/H | HG10.167/H | 5.00" ZnSe Meniscus lens<br>High pressure lens (29bar), 38.1mm<br>Effective focal length: 127.0mm<br>Edge thickness: 7.4mm<br>AR/AR for 10.6µm (absorption <0.20%) | 1pc       | HG10.167/HU               | HG10.167/HU | 5.00" ZnSe Men. lens - ULTRA LOW<br>High pressure lens (29bar), 38.1mm<br>Effective focal length: 127.0mm<br>Edge thickness: 7.4mm<br>AR/AR for 10.6µm (absorption <0.13%)  | 1pc       |
| HG10.168/H | HG10.168/H | 7.50" ZnSe Meniscus lens<br>High pressure lens (29bar), 38.1mm<br>Effective focal length: 190.5mm<br>Edge thickness: 7.4mm<br>AR/AR for 10.6µm (absorption <0.20%) | 1pc       | HG10.168/HU               | HG10.168/HU | 7.50" ZnSe Men. lens - ULTRA LOW<br>High pressure lens (29bar), 38.1mm<br>Effective focal length: 190.5mm<br>Edge thickness: 7.4mm<br>AR/AR for 10.6µm (absorption <0.13%)  | 1pc       |
| HG10.733/H | HG10.733/H | 5.00" ZnSe Meniscus lens<br>High pressure lens (42bar), 38.1mm<br>Effective focal length: 127.0mm<br>Edge thickness: 9.0mm<br>AR/AR for 10.6µm (absorption <0.20%) | 1pc       | HG15.003/HU <sup>OD</sup> | HG15.003/HU | 7.50" ZnSe Plan.-con. - ULTRA LOW<br>High pressure lens (28bar), 50.8mm<br>Effective focal length: 190.5mm<br>Edge thickness: 9.7mm<br>AR/AR for 10.6µm (absorption <0.13%) | 1pc       |
| HG10.734/H | HG10.734/H | 7.50" ZnSe Meniscus lens<br>High pressure lens (42bar), 38.1mm<br>Effective focal length: 190.5mm<br>Edge thickness: 9.0mm<br>AR/AR for 10.6µm (absorption <0.20%) | 1pc       | HG10.733/HU               | HG10.733/HU | 5.00" ZnSe Men. lens - ULTRA LOW<br>High pressure lens (42bar), 38.1mm<br>Effective focal length: 127.0mm<br>Edge thickness: 9.0mm<br>AR/AR for 10.6µm (absorption <0.13%)  | 1pc       |
| HG10.621/H | HG10.621/H | 7.50" ZnSe Meniscus lens<br>High pressure lens (28bar), 50.8mm<br>Effective focal length: 190.5mm<br>Edge thickness: 9.7mm<br>AR/AR for 10.6µm (absorption <0.20%) | 1pc       | HG10.734/HU               | HG10.734/HU | 7.50" ZnSe Men. lens - ULTRA LOW<br>High pressure lens (42bar), 38.1mm<br>Effective focal length: 190.5mm<br>Edge thickness: 9.0mm<br>AR/AR for 10.6µm (absorption <0.13%)  | 1pc       |

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## THERMACUT® REPLACEMENT PARTS SUITABLE FOR Precitec® PROTECTION WINDOWS SUITABLE FOR Precitec®



HG17.511–HG17.512, HG17.514  
HG17.524–HG17.527  
HG11.095

| Part No.                                     | Ref. No.                          | Description                                         | Std. Pkg. |
|----------------------------------------------|-----------------------------------|-----------------------------------------------------|-----------|
| HG17.511 <span style="color: red;">OD</span> | P0251-1419-00001                  | Protection Window D50.00mm × ET = 2.0mm             | 1pc       |
| HG17.514                                     | HG17.514                          | Protection Window D25.40mm × ET = 4.0mm, 6kW        | 1pc       |
| HG17.524                                     | P0595-58601/P0595-61551           | Protection Window D37.00mm × ET = 7.0mm, 30kW       | 1pc       |
| HG17.525                                     | P0588-1022-00002/P0588-1022-00001 | Protection Window D21.50mm × ET = 2.0mm, 15kW       | 1pc       |
| HG17.526                                     | P0795-1201-00002/P0795-1201-00002 | Protection Window D30.00mm × ET = 5.0mm, 15kW       | 1pc       |
| HG17.527                                     | P0253-1034-00001                  | Protection Window D30.00mm × ET = 1.5mm, 12kW, YW30 | 1pc       |
| HG17.512                                     | P0589-360-00001/P0555-73911       | Protection Window D22.35mm × ET = 4.0mm, 6kW        | 1pc       |
| HG11.095                                     | HG11.095                          | Protection Window D35.50mm × ET = 5.0mm, 30kW       | 1pc       |

## ACCESSORIES SUITABLE FOR Precitec®



HG10.174

| Part No. | Ref. No. | Description                                             | Std. Pkg. |
|----------|----------|---------------------------------------------------------|-----------|
| HG10.174 | HG10.174 | Polish for laser optics, 250ml                          | 1pc       |
| HG10.173 | HG10.173 | Lens cleaning paper from TIFFEN®, sheet size 70 × 115mm | 50pcs     |

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## THERMACUT® REPLACEMENT PARTS SUITABLE FOR Precitec® CONSUMABLES CASE SUITABLE FOR Precitec®

**Description:** full case with the whole range of consumables suitable for Precitec® (without lenses and protection windows).



| Part No. | Ref. No. | Description                           | Std. Pkg. |
|----------|----------|---------------------------------------|-----------|
| HG2222   | HG2222   | Full show case suitable for Precitec® | 1pc       |

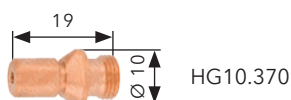
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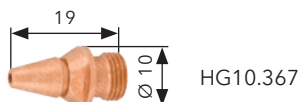
## THERMACUT® REPLACEMENT PARTS SUITABLE FOR PRIMA POWER®



HG10.370

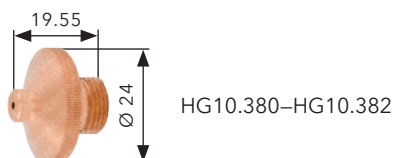
Standard copper nozzles

| Part No. | Ref. No.    | Description               | Std. Pkg. | Part No. | Ref. No. | Description  | Std. Pkg. |
|----------|-------------|---------------------------|-----------|----------|----------|--------------|-----------|
| HG10.370 | 485.73.114E | Nozzle 2.0mm (485.73.322) | 10pcs     | HG10.451 | HG10.451 | Nozzle 2.5mm | 10pcs     |
| HG10.371 | 485.73.114F | Nozzle 2.5mm (485.73.323) | 10pcs     |          |          |              |           |



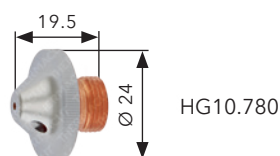
HG10.367

| Part No. | Ref. No.    | Description               | Std. Pkg. | Part No. | Ref. No.   | Description  | Std. Pkg. |
|----------|-------------|---------------------------|-----------|----------|------------|--------------|-----------|
| HG10.367 | 485.73.115A | Nozzle 1.5mm (485.73.331) | 10pcs     | HG11.367 | 485.73.451 | Nozzle 1.5mm | 10pcs     |
|          |             |                           |           | HG11.369 | 485.73.452 | Nozzle 2.0mm | 10pcs     |
|          |             |                           |           | HG11.373 | 485.73.453 | Nozzle 2.5mm | 10pcs     |



HG10.380-HG10.382

| Part No.           | Ref. No.   | Description  | Std. Pkg. | Part No. | Ref. No.   | Description  | Std. Pkg. |
|--------------------|------------|--------------|-----------|----------|------------|--------------|-----------|
| HG10.380           | LW6.1E.111 | Nozzle 1.5mm | 10pcs     | HG10.454 | LW6.1G.600 | Nozzle 1.5mm | 10pcs     |
| HG10.381           | LW6.1E.112 | Nozzle 2.0mm | 10pcs     | HG10.455 | LW6.1G.601 | Nozzle 2.0mm | 10pcs     |
| HG10.382           | LW6.1E.113 | Nozzle 2.5mm | 10pcs     | HG10.456 | LW6.1G.602 | Nozzle 2.5mm | 10pcs     |
| HG10.383 <b>OD</b> | LW6.1E.114 | Nozzle 3.0mm | 10pcs     |          |            |              |           |



HG10.780

| Part No.           | Ref. No.   | Description      | Std. Pkg. | Part No. | Ref. No.   | Description     | Std. Pkg. |
|--------------------|------------|------------------|-----------|----------|------------|-----------------|-----------|
| HG10.780 <b>OD</b> | LW6.1G.604 | Nozzle 1.5mm CP  | 10pcs     | HG10.782 | LW6.1G.605 | Nozzle 2.0mm CP | 10pcs     |
| HG10.781           | HG10.781   | Nozzle 1.75mm CP | 10pcs     | HG10.784 | LW6.1G.607 | Nozzle 3.0mm CP | 10pcs     |

| Part No.   | Ref. No.     | Description  | Std. Pkg. |
|------------|--------------|--------------|-----------|
| HG11.369/C | 485.73.452CP | Nozzle 2.0mm | 10pcs     |
| HG11.373/C | 485.73.453CP | Nozzle 2.5mm | 10pcs     |

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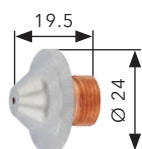
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## THERMACUT® REPLACEMENT PARTS SUITABLE FOR PRIMA POWER®



HG11.381/C

Domino copper nozzels with chromium plating

| Part No.                                       | Ref. No.       | Description             | Std. Pkg. |
|------------------------------------------------|----------------|-------------------------|-----------|
| HG11.381/C <span style="color: red;">OD</span> | 1059.70000.004 | Double Nozzle 1.5mm HCP | 10pcs     |
| HG11.382/C                                     | 1059.70000.005 | Double Nozzle 2.0mm HCP | 10pcs     |



PRODUCT BROCHURE WITH DETAILS AT  
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VIDEO AVAILABLE AT YOUTUBE CHANNEL ▶



## LENSES SUITABLE FOR PRIMA POWER®



HG10.731/H–HG10.734/H  
HG10.166/H–HG10.168/H  
HG10.621/H



HG10.733/HU–HG10.734/HU

| Part No.   | Ref. No.   | Description                          | Std. Pkg. | Part No.    | Ref. No.    | Description                          | Std. Pkg. |
|------------|------------|--------------------------------------|-----------|-------------|-------------|--------------------------------------|-----------|
| HG10.733/H | HG10.733/H | 5.00" ZnSe Meniscus lens             | 1pc       | HG10.733/HU | HG10.733/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: 9.0mm                |           |             |             | Edge thickness: 9.0mm                |           |
|            |            | AR/AR for 10.6μm (absorption <0.20%) |           |             |             | AR/AR for 10.6μm (absorption <0.13%) |           |
| HG10.734/H | HG10.734/H | 7.50" ZnSe Meniscus lens             | 1pc       | HG10.734/HU | HG10.734/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: 9.0mm                |           |             |             | Edge thickness: 9.0mm                |           |
|            |            | AR/AR for 10.6μm (absorption <0.20%) |           |             |             | AR/AR for 10.6μm (absorption <0.13%) |           |
| HG10.621/H | HG10.621/H | 7.50" ZnSe Meniscus lens             | 1pc       |             |             |                                      |           |
|            |            | High pressure lens (28bar), 50.8mm   |           |             |             |                                      |           |
|            |            | Effective focal length: 190.5mm      |           |             |             |                                      |           |
|            |            | Edge thickness: 9.7mm                |           |             |             |                                      |           |
|            |            | AR/AR for 10.6μm (absorption <0.20%) |           |             |             |                                      |           |

## ACCESSORIES SUITABLE FOR PRIMA POWER®



HG10.174

| Part No. | Ref. No. | Description                                             | Std. Pkg. |
|----------|----------|---------------------------------------------------------|-----------|
| HG10.174 | HG10.174 | Polish for laser optics, 250ml                          | 1pc       |
| HG10.173 | HG10.173 | Lens cleaning paper from TIFFEN®, sheet size 70 × 115mm | 50pcs     |

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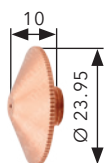
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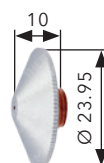
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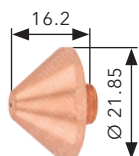
HG10.148–HG10.159



HG10.148/C–HG10.152/C  
HG10.154/C–HG10.155/C  
HG10.158/C

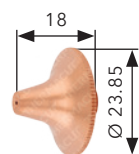
Standard copper nozzles / Standard copper nozzles with hard chromium plating

| Part No. | Ref. No. | Description                         | Std. Pkg. | Part No.   | Ref. No. | Description          | Std. Pkg. |
|----------|----------|-------------------------------------|-----------|------------|----------|----------------------|-----------|
| HG10.150 | 0124561  | Nozzle ECE 0.8mm                    | 10pcs     | HG10.150/C | 0352280  | Nozzle ECE 0.8mm HCP | 10pcs     |
| HG10.151 | 0124562  | Nozzle ECE 1.0mm                    | 10pcs     | HG10.151/C | 0352281  | Nozzle ECE 1.0mm HCP | 10pcs     |
| HG10.148 | 0966809  | Nozzle ECE 1.2mm                    | 10pcs     | HG10.148/C | 0352282  | Nozzle ECE 1.2mm HCP | 10pcs     |
| HG10.152 | 0237497  | Nozzle ECE 1.4mm with step          | 10pcs     | HG10.152/C | 0352283  | Nozzle ECE 1.4mm HCP | 10pcs     |
| HG10.159 | 237497-S | Nozzle ECE 1.4mm with Straith Taper | 10pcs     | HG10.154/C | 0352284  | Nozzle ECE 1.7mm HCP | 10pcs     |
| HG10.153 | 237500   | Nozzle ECE 1.5mm                    | 10pcs     | HG10.155/C | 1253212  | Nozzle ECE 2.0mm HCP | 10pcs     |
| HG10.154 | 0237501  | Nozzle ECE 1.7mm                    | 10pcs     | HG10.158/C | 0352285  | Nozzle ECE 2.3mm HCP | 10pcs     |
| HG10.155 | 1253211  | Nozzle ECE 2.0mm                    | 10pcs     | HG10.149/C | 0352286  | Nozzle ECE 2.7mm HCP | 10pcs     |
| HG10.158 | 0126933  | Nozzle ECE 2.3mm                    | 10pcs     |            |          |                      |           |
| HG10.156 | HG10.156 | Nozzle ECE 2.5mm                    | 10pcs     |            |          |                      |           |
| HG10.149 | 0942742  | Nozzle ECE 2.7mm                    | 10pcs     |            |          |                      |           |
| HG10.157 | 0237504  | Nozzle ECE 3.0mm                    | 10pcs     |            |          |                      |           |



HG10.810–HG10.817

| Part No. | Ref. No. | Description      | Std. Pkg. | Part No. | Ref. No. | Description      | Std. Pkg. |
|----------|----------|------------------|-----------|----------|----------|------------------|-----------|
| HG10.810 | 1851641  | Nozzle ECP 0.8mm | 10pcs     | HG10.814 | 1851619  | Nozzle ECP 1.7mm | 10pcs     |
| HG10.811 | 1851587  | Nozzle ECP 1.0mm | 10pcs     | HG10.815 | 1851620  | Nozzle ECP 2.0mm | 10pcs     |
| HG10.812 | 1851588  | Nozzle ECP 1.2mm | 10pcs     | HG10.816 | 1851651  | Nozzle ECP 2.3mm | 10pcs     |
| HG10.813 | 1851618  | Nozzle ECP 1.4mm | 10pcs     | HG10.817 | 1851652  | Nozzle ECP 2.7mm | 10pcs     |



HG10.130–HG10.137

| Part No. | Ref. No. | Description  | Std. Pkg. | Part No. | Ref. No.   | Description  | Std. Pkg. |
|----------|----------|--------------|-----------|----------|------------|--------------|-----------|
| HG10.130 | 1277773  | Nozzle 0.8mm | 10pcs     | HG10.134 | 1277779    | Nozzle 1.7mm | 10pcs     |
| HG10.131 | 1277771  | Nozzle 1.0mm | 10pcs     | HG10.135 | OD 1277780 | Nozzle 2.0mm | 10pcs     |
| HG10.132 | 1277774  | Nozzle 1.2mm | 10pcs     | HG10.136 | 1277781    | Nozzle 2.3mm | 10pcs     |
| HG10.133 | 1277776  | Nozzle 1.4mm | 10pcs     | HG10.137 | OD 1277782 | Nozzle 2.7mm | 10pcs     |

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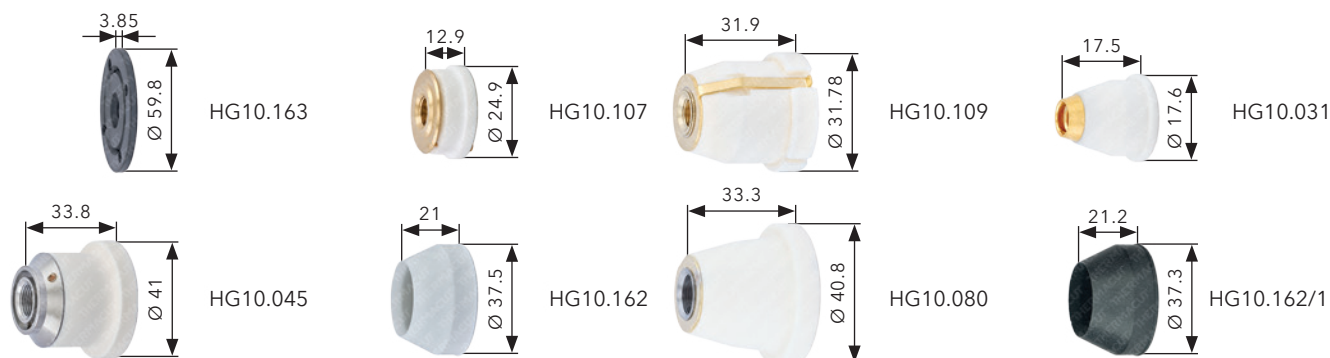
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## THERMACUT® REPLACEMENT PARTS SUITABLE FOR TRUMPF®



| Part No. | Ref. No.               | Description                         | Std. Pkg. | Part No.   | Ref. No. | Description               | Std. Pkg. |
|----------|------------------------|-------------------------------------|-----------|------------|----------|---------------------------|-----------|
| HG10.163 | 234485                 | Break Away Bar                      | 1pc       | HG10.045   | 1906032  | Ceramic Nozzle Holder M12 | 1pc       |
| HG10.107 | 0258809                | Ceramic Nozzle Holder (Lasermatic®) | 1pc       | HG10.080   | 1755673  | Nozzle Holder M12         | 1pc       |
| HG10.109 | 0260432                | Ceramic Nozzle Holder DIAS III      | 1pc       | HG10.162   | 256153   | PTFE Cover DIAS III White | 1pc       |
| HG10.031 | 0936678/2509767/913966 | Ceramic Nozzle Holder M6            | 1pc       | HG10.162/1 | 0955826  | PTFE Cover DIAS III Black | 1pc       |



| Part No. | Ref. No. | Description             | Std. Pkg. |
|----------|----------|-------------------------|-----------|
| HG10.040 | 1589610  | Nozzle - 2.0mm Blow Off | 1pc       |
| HG10.301 | 1384753  | Nozzle CrossJet 2.0mm   | 10pcs     |



| Part No. | Ref. No. | Description      | Std. Pkg. | Part No. | Ref. No. | Description      | Std. Pkg. |
|----------|----------|------------------|-----------|----------|----------|------------------|-----------|
| HG10.060 | 1324858  | Nozzle EAA 0.8mm | 10pcs     | HG10.070 | 1373324  | Nozzle EAB 0.8mm | 10pcs     |
| HG10.061 | 1324860  | Nozzle EAA 1.0mm | 10pcs     | HG10.071 | 1373325  | Nozzle EAB 1.0mm | 10pcs     |
| HG10.062 | 1324861  | Nozzle EAA 1.2mm | 10pcs     | HG10.072 | 1373326  | Nozzle EAB 1.2mm | 10pcs     |
| HG10.063 | 1324863  | Nozzle EAA 1.4mm | 10pcs     | HG10.073 | 1373327  | Nozzle EAB 1.4mm | 10pcs     |
| HG10.064 | 1324864  | Nozzle EAA 1.7mm | 10pcs     | HG10.074 | 1373328  | Nozzle EAB 1.7mm | 10pcs     |
| HG10.065 | 1324865  | Nozzle EAA 2.0mm | 10pcs     | HG10.075 | 1373329  | Nozzle EAB 2.0mm | 10pcs     |
| HG10.066 | 1324866  | Nozzle EAA 2.3mm | 10pcs     | HG10.076 | 1373330  | Nozzle EAB 2.3mm | 10pcs     |
| HG10.067 | 1324867  | Nozzle EAA 2.7mm | 10pcs     | HG10.077 | 1373331  | Nozzle EAB 2.7mm | 10pcs     |

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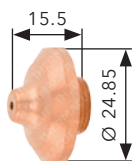
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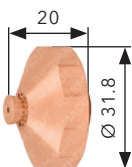
# THERMACUT® REPLACEMENT PARTS SUITABLE FOR TRUMPF®

## PARTS SUITABLE FOR TRUMPF® BRIGHTLINE™ SERIES AND COOLLINE™ SERIES



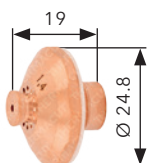
HG10.081–HG10.088  
HG10.111, HG10.113

| Part No. | Ref. No. | Description                  | Std. Pkg. | Part No. | Ref. No. | Description                  | Std. Pkg. |
|----------|----------|------------------------------|-----------|----------|----------|------------------------------|-----------|
| HG10.081 | 1664569  | BrightLine™ Nozzle EAN 1.7mm | 1pc       | HG10.085 | 1633046  | BrightLine™ Nozzle EAC 5.3mm | 1pc       |
| HG10.082 | 1664602  | BrightLine™ Nozzle EAN 2.0mm | 1pc       | HG10.086 | 1809091  | BrightLine™ Nozzle EAQ 6.0mm | 1pc       |
| HG10.083 | 1664625  | BrightLine™ Nozzle EAN 2.5mm | 1pc       | HG10.087 | 1809421  | BrightLine™ Nozzle EAQ 7.5mm | 1pc       |
| HG10.111 | 1579549  | BrightLine™ Nozzle EAK 2.5mm | 1pc       | HG10.088 | 1886199  | BrightLine™ Nozzle EAQ 9.5mm | 1pc       |
| HG10.113 | 1579556  | BrightLine™ Nozzle EAK 3.0mm | 1pc       |          |          |                              |           |
| HG10.084 | 1835747  | BrightLine™ Nozzle EAK 4.0mm | 1pc       |          |          |                              |           |



HG10.089– HG10.091  
HG10.192

| Part No. | Ref. No. | Description                | Std. Pkg. | Part No. | Ref. No. | Description                | Std. Pkg. |
|----------|----------|----------------------------|-----------|----------|----------|----------------------------|-----------|
| HG10.089 | 1774018  | CoolLine™ Nozzle EFL 1.4mm | 1pc       | HG10.090 | 1774020  | CoolLine™ Nozzle EFL 2.0mm | 1pc       |
| HG10.192 | 1838745  | CoolLine™ Nozzle EFL 1.7mm | 1pc       | HG10.091 | 1774092  | CoolLine™ Nozzle EFL 2.3mm | 1pc       |



HG10.092–HG10.095

| Part No. | Ref. No. | Description                  | Std. Pkg. | Part No. | Ref. No. | Description                  | Std. Pkg. |
|----------|----------|------------------------------|-----------|----------|----------|------------------------------|-----------|
| HG10.092 | 1879940  | CoolLine™ Nozzle EGL D1.4 mm | 10pcs     | HG10.094 | 1879952  | CoolLine™ Nozzle EGL D2.0 mm | 10pcs     |
| HG10.093 | 1879951  | CoolLine™ Nozzle EGL D1.7 mm | 10pcs     | HG10.095 | 1879953  | CoolLine™ Nozzle EGL D2.3 mm | 10pcs     |

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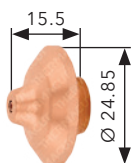
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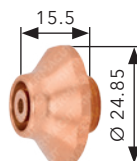
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### PARTS SUITABLE FOR TRUMPF® PERFORMANCE™ SERIES



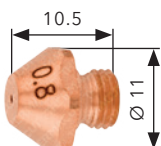
HG10.096–HG10.099



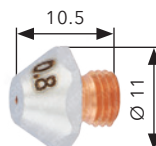
HG10.041, HG10.870

| Part No. | Ref. No. | Description      | Std. Pkg. | Part No. | Ref. No. | Description       | Std. Pkg. |
|----------|----------|------------------|-----------|----------|----------|-------------------|-----------|
| HG10.096 | 2059462  | Nozzle EAU 2.5mm | 10pcs     | HG10.041 | 2253595  | Nozzle EAU 10.0mm | 10pcs     |
| HG10.097 | 2060001  | Nozzle EAU 3.0mm | 10pcs     | HG10.870 | 2491660  | Nozzle CAU 10.0mm | 10pcs     |
| HG10.098 | 2060004  | Nozzle EAU 4.0mm | 10pcs     |          |          |                   |           |
| HG10.099 | 2060025  | Nozzle EAU 6.0mm | 10pcs     |          |          |                   |           |

## THERMACUT® REPLACEMENT PARTS SUITABLE FOR TRUMPF®



HG10.036–HG10.038  
HG10.010–HG10.012  
HG10.025  
HG10.028



HG10.036/C  
HG10.010/C–HG10.012/C  
HG10.028/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. |
|----------|----------|---------------------|-----------|------------------------------------------------|-----------|-------------------------|-----------|
| HG10.036 | 1354230  | Nozzle EBD 0.8mm    | 10pcs     | HG10.036/C <span style="color: red;">OD</span> | 1354230CP | Nozzle EBD 0.8mm HCP    | 10pcs     |
| HG10.010 | 0212334  | Nozzle EBD 1.0mm    | 10pcs     | HG10.010/C                                     | 0212334CP | Nozzle EBD 1.0mm HCP    | 10pcs     |
| HG10.037 | 1479581  | Nozzle EBD 1.2mm    | 10pcs     | HG10.011/C                                     | 0216199CP | Nozzle EBD 1.4mm HD HCP | 10pcs     |
| HG10.011 | 0216199  | Nozzle EBD 1.4mm HD | 10pcs     | HG10.012/C                                     | 0225213CP | Nozzle EBD 1.7mm HD HCP | 10pcs     |
| HG10.012 | 0225213  | Nozzle EBD 1.7mm HD | 10pcs     | HG10.028/C <span style="color: red;">OD</span> | 0126156CP | Nozzle EBD 2.3mm HD HCP | 10pcs     |
| HG10.038 | 1487009  | Nozzle EBD 2.0mm    | 10pcs     |                                                |           |                         |           |
| HG10.028 | 0126156  | Nozzle EBD 2.3mm HD | 10pcs     |                                                |           |                         |           |
| HG16.600 | HG16.600 | Nozzle 0.8mm        | 10pcs     |                                                |           |                         |           |
| HG10.013 | 226939   | Nozzle 1.0mm        | 10pcs     |                                                |           |                         |           |
| HG10.025 | HG10.025 | Nozzle 1.0mm HD     | 10pcs     |                                                |           |                         |           |
| HG10.014 | 226940   | Nozzle 1.4mm HD     | 10pcs     |                                                |           |                         |           |
| HG10.015 | 227144   | Nozzle 1.7mm HD     | 10pcs     |                                                |           |                         |           |
| HG10.033 | HG10.033 | Nozzle 2.0mm HD     | 10pcs     |                                                |           |                         |           |
| HG10.029 | HG10.029 | Nozzle 2.3mm HD     | 10pcs     |                                                |           |                         |           |

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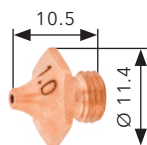
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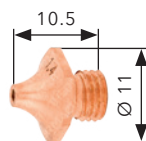
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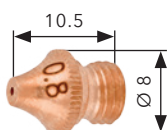


HG10.016

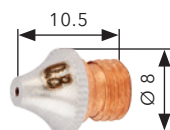


HG10.017  
HG10.030

| Part No.                                     | Ref. No. | Description     | Std. Pkg. | Part No.                                     | Ref. No. | Description     | Std. Pkg. |
|----------------------------------------------|----------|-----------------|-----------|----------------------------------------------|----------|-----------------|-----------|
| HG10.016                                     | HG10.016 | Nozzle 1.0mm    | 10pcs     | HG10.225                                     | 0135320  | Nozzle 1.0mm RE | 10pcs     |
| HG10.017                                     | HG10.017 | Nozzle 1.4mm HD | 10pcs     | HG10.226                                     | HG10.226 | Nozzle 1.2mm RE | 10pcs     |
| HG10.030 <span style="color: red;">OD</span> | HG10.030 | Nozzle 2.3mm HD | 10pcs     | HG10.220 <span style="color: red;">OD</span> | 0135318  | Nozzle 1.4mm RE | 10pcs     |
|                                              |          |                 |           | HG10.221 <span style="color: red;">OD</span> | 0126157  | Nozzle 1.7mm RE | 10pcs     |



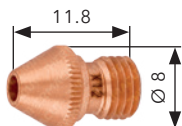
HG10.020–HG10.022  
HG10.039



HG10.020/C  
HG10.021/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. |
|----------|----------|---------------------|-----------|------------------------------------------------|-----------|-------------------------|-----------|
| HG10.020 | 0913799  | Nozzle EBG 0.8mm HD | 10pcs     | HG10.020/C <span style="color: red;">OD</span> | 0913799CP | Nozzle EBG 0.8mm HD HCP | 10pcs     |
| HG10.021 | 0913800  | Nozzle EBG 1.0mm HD | 10pcs     | HG10.021/C                                     | 0913800CP | Nozzle EBG 1.0mm HD HCP | 10pcs     |
| HG10.039 | 1487034  | Nozzle EBG 1.2mm    | 10pcs     | HG10.022/C                                     | 0913801CP | Nozzle EBG 1.4mm HD HCP | 10pcs     |
| HG10.022 | 0913801  | Nozzle EBG 1.4mm HD | 10pcs     | HG10.023/C                                     | 0937988CP | Nozzle EBF 1.7mm HD HCP | 10pcs     |
| HG10.023 | 0937988  | Nozzle EBF 1.7mm HD | 10pcs     | HG10.024/C                                     | 0937989CP | Nozzle 2.3mm HD HCP     | 10pcs     |
| HG10.027 | 1487036  | Nozzle EBF 2.0mm    | 10pcs     |                                                |           |                         |           |
| HG10.024 | 0937989  | Nozzle EBF 2.3mm HD | 10pcs     |                                                |           |                         |           |



HG10.900–HG10.904

| Part No. | Ref. No.   | Description    | Std. Pkg. | Part No. | Ref. No.   | Description    | Std. Pkg. |
|----------|------------|----------------|-----------|----------|------------|----------------|-----------|
| HG10.900 | 2241407-UR | Nozzle EBC X12 | 10pcs     | HG10.904 | 2241409-UR | Nozzle EBC X40 | 10pcs     |
| HG10.901 | 2085524-UR | Nozzle EBC X20 | 10pcs     |          |            |                |           |
| HG10.902 | 2241406-UR | Nozzle EBC X31 | 10pcs     |          |            |                |           |
| HG10.903 | 2241524-UR | Nozzle EBC X35 | 10pcs     |          |            |                |           |

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**THERMACUT® REPLACEMENT PARTS SUITABLE FOR TRUMPF®**  
**OPTICS, SERVICE ITEMS AND SPARE PARTS**  
**SUITABLE FOR TRUMPF®**



**LENSES SUITABLE FOR TRUMPF®**



HG10.166/H–HG10.169/H  
HG10.179/H

| Part No.   | Ref. No. | Description                                                                                                                                                         | Std. Pkg. |
|------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| HG10.166/H | 346104   | 3.75" ZnSe Meniscus lens<br>High pressure lens (29bar), 38.1mm<br>Effective focal length: 95.3mm<br>Edge thickness: 7.4mm<br>AR/AR for 10.6μm (absorption <0.20%)   | 1pc       |
| HG10.167/H | 88114    | 5.00" ZnSe Meniscus lens<br>High pressure lens (29bar), 38.1mm<br>Effective focal length: 127.0mm<br>Edge thickness: 7.4mm<br>AR/AR for 10.6μm (absorption <0.20%)  | 1pc       |
| HG10.168/H | 97517    | 7.50" ZnSe Meniscus lens<br>High pressure lens (29bar), 38.1mm<br>Effective focal length: 190.5mm<br>Edge thickness: 7.4mm<br>AR/AR for 10.6μm (absorption <0.20%)  | 1pc       |
| HG10.169/H | 141972   | 9.00" ZnSe Meniscus lens<br>High pressure lens (29bar), 38.1mm<br>Effective focal length: 225.0mm<br>Edge thickness: 7.4mm<br>AR/AR for 10.6μm (absorption <0.20%)  | 1pc       |
| HG10.179/H | 350163   | 10.00" ZnSe Meniscus lens<br>High pressure lens (29bar), 38.1mm<br>Effective focal length: 254.0mm<br>Edge thickness: 7.4mm<br>AR/AR for 10.6μm (absorption <0.20%) | 1pc       |



HG10.167/HU–HG10.168/HU

| Part No.    | Ref. No. | Description                                                                                                                                                                    | Std. Pkg. |
|-------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| HG10.167/HU | 88114    | 5.00" ZnSe Meniscus lens - ULTRA LOW<br>High pressure lens (29bar), 38.1mm<br>Effective focal length: 127.0mm<br>Edge thickness: 7.4mm<br>AR/AR for 10.6μm (absorption <0.13%) | 1pc       |
| HG10.168/HU | 97517    | 7.50" ZnSe Meniscus lens - ULTRA LOW<br>High pressure lens (29bar), 38.1mm<br>Effective focal length: 190.5mm<br>Edge thickness: 7.4mm<br>AR/AR for 10.6μm (absorption <0.13%) | 1pc       |



HG10.119/H–HG10.128/H

| Part No.    | Ref. No. | Description                             | Std. Pkg. |
|-------------|----------|-----------------------------------------|-----------|
| HG10.119/H* | 1525872  | ZnSe 50mm Lens ET8.9 FL170mm - w/o chip | 1pc       |
| HG10.120/H* | 1330448  | ZnSe 50mm Lens ET8.9 FL175mm - w/o chip | 1pc       |
| HG10.121/H* | 1330443  | ZnSe 50mm Lens ET8.9 FL250mm - w/o chip | 1pc       |
| HG10.122/H* | 1795719  | ZnSe 50mm Lens ET8.9 FL175mm - chip     | 1pc       |
| HG10.123/H* | 1796128  | ZnSe 50mm Lens ET8.9 FL250mm - chip     | 1pc       |
| HG10.124/H* | 1383925  | ZnSe 40mm Lens ET7.5 FL155mm - w/o chip | 1pc       |



HG10.130/H

| Part No.    | Ref. No. | Description                             | Std. Pkg. |
|-------------|----------|-----------------------------------------|-----------|
| HG10.125/H* | 0380117  | ZnSe 40mm Lens ET7.5 FL130mm - w/o chip | 1pc       |
| HG10.126/H* | 0380115  | ZnSe 40mm Lens ET7.5 FL250mm - w/o chip | 1pc       |
| HG10.127/H* | 1772319  | ZnSe 40mm Lens ET7.5 FL130mm - chip     | 1pc       |
| HG10.128/H* | 1770805  | ZnSe 40mm Lens ET7.5 FL250mm - chip     | 1pc       |
| HG10.130/H* | 1603107  | Fused Silica 40mm Lens ET8.1 FL150mm    | 1pc       |

\* BEFORE PURCHASING LENSES, PLEASE CHECK THE COUNTRY OF ORIGIN FOR POSSIBLE IMPORT RESTRICTIONS WITH YOUR SALES REPRESENTATIVE.  
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# THERMACUT® REPLACEMENT PARTS SUITABLE FOR TRUMPF®

## OPTICS, SERVICE ITEMS AND SPARE PARTS SUITABLE FOR TRUMPF®



### PROTECTION WINDOWS SUITABLE FOR TRUMPF®



HG17.513  
 HG17.515  
 HG17.526  
 HG12.099

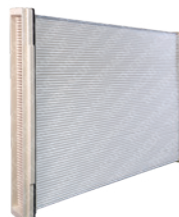
| Part No. | Ref. No.              | Description                                   | Std. Pkg. |
|----------|-----------------------|-----------------------------------------------|-----------|
| HG17.513 | 1614767/2602937       | Protection Window D34.00mm × ET = 5.0mm, 30kW | 1pc       |
| HG17.515 | 759720/759720/1615516 | Protection Window D55.00mm × ET = 1.5mm, 12kW | 1pc       |
| HG17.526 | 766719                | Protection Window D30.00mm × ET = 5.0mm, 15kW | 1pc       |
| HG12.099 | 1254813               | Protection Window D134.00mm × ET = 3.0mm, 6kW | 1pc       |

### SERVICE ITEMS AND SPARE PARTS SUITABLE FOR TRUMPF®

#### EXTRACTION UNIT



HG17.000, HG17.002–HG17.003



HG17.004

| Part No. | Ref. No. | Description                       | Std. Pkg. | Part No. | Ref. No.              | Description                               | Std. Pkg. |
|----------|----------|-----------------------------------|-----------|----------|-----------------------|-------------------------------------------|-----------|
| HG17.000 | 0345064  | Filter Panel H13                  | 1pc       |          | 0375600               | Filter Panel H13 - DELTA 1200-10(12) 9 SB | 1pc       |
| HG17.003 | 0380757  | Filter Panel H13 - MF-L 2000      | 1pc       | HG17.002 | 0342812/146122/342682 | Filter Panel                              | 1pc       |
| HG17.004 | 2260691  | Filter Panel H13 - MF-8.4/8.5/8.6 | 1pc       |          | 0139809               | Filter Panel H13                          | 1pc       |
|          | 1746376  | Filter Panel H13 - MF-L1000       | 1pc       |          |                       |                                           |           |

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# THERMACUT® REPLACEMENT PARTS SUITABLE FOR TRUMPF® SERVICE ITEMS AND SPARE PARTS SUITABLE FOR TRUMPF®

## BELLOWS SUITABLE FOR TRUMPF® TC L2530



HG17.006  
HG17.171-HG17.173

### Railings

| Part No. | Ref. No.      | Description    | Std. Pkg. | Part No. | Ref. No. | Description              | Std. Pkg. |
|----------|---------------|----------------|-----------|----------|----------|--------------------------|-----------|
| HG17.006 | 135401        | Bellows X-axis | 1pc       | HG17.172 | 135399   | Bellows Y-axis – buttons | 1pc       |
| HG17.171 | 135402/352332 | Bellows X-axis | 1pc       | HG17.173 | 980133   | Bellows Y-axis – velcro  | 1pc       |

### Beam guideway

| Part No. | Ref. No.       | Description                  | Std. Pkg. | Part No. | Ref. No.       | Description                | Std. Pkg. |
|----------|----------------|------------------------------|-----------|----------|----------------|----------------------------|-----------|
| HG17.174 | 925803/2335181 | Chest Bellows X-axis, right  | 1pc       | HG17.191 | 939014/2335237 | Chest Bellows Y-axis, rear | 1pc       |
| HG17.175 | 939013/2335287 | Chest Bellows X-axis, left   | 1pc       | HG17.106 | 910354/2342414 | Chest Bellows Z-axis       | 1pc       |
| HG17.176 | 925802/2335040 | Chest Bellows Y-axis, front  | 1pc       |          |                |                            |           |
| HG17.177 | 939012/2335236 | Chest Bellows Y-axis, middle | 1pc       |          |                |                            |           |

## BELLOWS SUITABLE FOR TRUMPF® TC L3030™, L3020™



HG17.100  
HG17.101

### Railings

| Part No. | Ref. No.       | Description    | Std. Pkg. |
|----------|----------------|----------------|-----------|
| HG17.100 | 2012184/921742 | Bellows X-axis | 1pc       |
| HG17.101 | 141394         | Bellows Y-axis | 1pc       |

### Chest bellows

| Part No. | Ref. No.                      | Description                 | Std. Pkg. | Part No. | Ref. No.       | Description          | Std. Pkg. |
|----------|-------------------------------|-----------------------------|-----------|----------|----------------|----------------------|-----------|
| HG17.102 | 1667790/920715/124393/2356536 | Chest Bellows X-axis, front | 1pc       | HG17.106 | 910354/2342414 | Chest Bellows Z-axis | 1pc       |
| HG17.103 | 1667803/939015/2356581        | Chest Bellows X-axis, rear  | 1pc       |          |                |                      |           |
| HG17.104 | 1667801/920716/124394/2356537 | Chest Bellows Y-axis, right | 1pc       |          |                |                      |           |
| HG17.105 | 1667805/939016/2356591        | Chest Bellows Y-axis, left  | 1pc       |          |                |                      |           |

### Disk bellows

| Part No. | Ref. No. | Description                | Std. Pkg. | Part No. | Ref. No. | Description                | Std. Pkg. |
|----------|----------|----------------------------|-----------|----------|----------|----------------------------|-----------|
| HG17.192 | 1306466  | Disk Bellows Y-axis, left  | 1pc       | HG17.194 | 1306468  | Disk Bellows X-axis, rear  | 1pc       |
| HG17.193 | 1306467  | Disk Bellows Y-axis, right | 1pc       | HG17.195 | 1306469  | Disk Bellows X-axis, front | 1pc       |

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## BELLOWS SUITABLE FOR TRUMPF® TC L4030™, 3040 (L32)



HG17.110-HG17.111  
HG17.196-HG17.197

### Railings

| Part No. | Ref. No.       | Description    | Std. Pkg. | Part No. | Ref. No.         | Description           | Std. Pkg. |
|----------|----------------|----------------|-----------|----------|------------------|-----------------------|-----------|
| HG17.110 | 1883139/921870 | Bellows X-axis | 1pc       | HG17.196 | 1570976/ 2012183 | Bellows X-axis, left  | 1pc       |
| HG17.111 | 144949         | Bellows Y-axis | 1pc       | HG17.197 | 1865321/1570975  | Bellows X-axis, right | 1pc       |

### Beam guideway

| Part No. | Ref. No.       | Description                 | Std. Pkg. | Part No. | Ref. No.       | Description          | Std. Pkg. |
|----------|----------------|-----------------------------|-----------|----------|----------------|----------------------|-----------|
| HG17.112 | 939017/2335182 | Chest bellows X-axis, rear  | 1pc       | HG17.106 | 910354/2342414 | Chest bellows Z-axis | 1pc       |
| HG17.113 | 976624/2335292 | Chest bellows X-axis, front | 1pc       |          |                |                      |           |
| HG17.115 | 920719/2335130 | Chest bellows Y-axis, right | 1pc       |          |                |                      |           |
| HG17.116 | 938000/2335183 | Chest bellows Y-axis, left  | 1pc       |          |                |                      |           |

## BELLOWS SUITABLE FOR TRUMPF® TC L6030™



HG17.150  
HG17.111

### Railings

| Part No. | Ref. No.       | Description    | Std. Pkg. |
|----------|----------------|----------------|-----------|
| HG17.150 | 2012185/921871 | Bellows X-axis | 1pc       |
| HG17.111 | 144949         | Bellows Y-axis | 1pc       |

### Beam guideway

| Part No. | Ref. No.       | Description                 | Std. Pkg. | Part No. | Ref. No.       | Description          | Std. Pkg. |
|----------|----------------|-----------------------------|-----------|----------|----------------|----------------------|-----------|
| HG17.151 | 920730/2335161 | Chest bellows X-axis, rear  | 1pc       | HG17.106 | 910354/2342414 | Chest bellows Z-axis | 1pc       |
| HG17.152 | 937999/2335246 | Chest bellows X-axis, front | 1pc       |          |                |                      |           |
| HG17.115 | 920719/2335130 | Chest bellows Y-axis, right | 1pc       |          |                |                      |           |
| HG17.116 | 938000/2335183 | Chest bellows Y-axis, left  | 1pc       |          |                |                      |           |

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## BELLOWS SUITABLE FOR TRUMPF® TC L3050™, L5030



HG17.122-HG17.129  
HG17.162  
HG17.187  
HG17.014

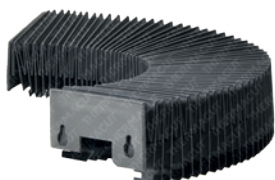
### Railings

| Part No. | Ref. No.                        | Description                         | Std. Pkg. | Part No.   | Ref. No.        | Description                             | Std. Pkg. |
|----------|---------------------------------|-------------------------------------|-----------|------------|-----------------|-----------------------------------------|-----------|
| HG17.122 | 1873856/1596087/1302020/981757  | Bellows X-axis, front & middle left | 1pc       | HG17.187   | 1865270         | Railing cover X-axis, left (fiber L68)  | 1pc       |
| HG17.123 | 981710                          | Bellows X-axis, front & rear right  | 1pc       | HG17.162   | 1865268/1458866 | Railing cover X-axis, right (fiber L68) | 1pc       |
| HG17.124 | 1873855/1596086/1307207         | Bellows X-axis front & rear right   | 1pc       | HG17.129   | 1595381/1879074 | Bellows Y-axis (fiber)                  | 1pc       |
| HG17.125 | 18773857/1596088/1302018/981756 | Bellows X-axis, rear left           | 1pc       | HG17.128   | 979561          | Bellows Z-axis, rear                    | 1pc       |
| HG17.126 | 1226193/0993338                 | Bellows y-axis right                | 1pc       | HG17.014 ✖ | 1261298         | Bellows Z-axis, front                   | 1pc       |
| HG17.127 | 1796166/1302386/981753/1949376  | Bellows U-axis front & rear         | 1pc       |            |                 |                                         |           |

### Beam guideway

| Part No. | Ref. No.       | Description                         | Std. Pkg. | Part No. | Ref. No.       | Description                            | Std. Pkg. |
|----------|----------------|-------------------------------------|-----------|----------|----------------|----------------------------------------|-----------|
| HG17.011 | 978079/2335072 | Chest Bellows U/X-axis              | 1pc       | HG17.119 | 1353514        | Combined Disk Bellows Y-axis, left     | 1pc       |
| HG17.120 | 1271514        | Disk Bellows U/X-axis               | 1pc       | HG17.012 | 1353515        | Combined Disk Bellows Y-axis, left     | 1pc       |
| HG17.199 | 1323286        | Disk Bellows U/X-axis               | 1pc       | HG17.164 | 1496436        | Disk Bellows Y-axis, left for 5030 L16 | 1pc       |
| HG17.118 | 1226192        | Combined Chest Bellows Y-axis, left | 1pc       | HG17.106 | 910354/2342414 | Chest Bellows Z-axis                   | 1pc       |

## BELLOWS SUITABLE FOR TRUMPF® TC L4050™



HG17.013-HG17.014  
HG17.128  
HG17.140-HG17.144

### Railings

| Part No. | Ref. No.        | Description                         | Std. Pkg. | Part No.   | Ref. No. | Description                      | Std. Pkg. |
|----------|-----------------|-------------------------------------|-----------|------------|----------|----------------------------------|-----------|
| HG17.140 | 1893488/1222529 | Bellows X-axis, front & middle left | 1pc       | HG17.013   | 1946658  | Bellows Y-axis (fiber 5040/6040) | 1pc       |
| HG17.141 | 1893485/1222573 | Bellows X-axis, front & rear right  | 1pc       | HG17.144   | 1222528  | Bellows U-axis, front & rear     | 1pc       |
| HG17.142 | 1893487/1222571 | Bellows X-axis, rear left           | 1pc       | HG17.128   | 979561   | Bellows Z-axis, rear             | 1pc       |
| HG17.143 | 1222111         | Bellows Y-axis, right               | 1pc       | HG17.014 ✖ | 1261298  | Bellows Z-axis, front            | 1pc       |

### Beam guideway

| Part No. | Ref. No.        | Description                 | Std. Pkg. | Part No. | Ref. No.        | Description                         | Std. Pkg. |
|----------|-----------------|-----------------------------|-----------|----------|-----------------|-------------------------------------|-----------|
| HG17.146 | 1222575/2334587 | Chest Bellows X-axis, left  | 1pc       | HG17.148 | 1222110         | Combined Chest Bellows Y-axis, left | 1pc       |
| HG17.015 | 1306470         | Disk Bellows X-axis, left   | 1pc       | HG17.158 | 1353516/1306472 | Combined Disk Bellows Y-axis, left  | 1pc       |
| HG17.147 | 1222576         | Chest Bellows X-axis, right | 1pc       | HG17.106 | 910354/2342414  | Chest Bellows Z-axis                | 1pc       |
| HG17.168 | 1306471         | Disk Bellows X-axis, right  | 1pc       |          |                 |                                     |           |

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# THERMACUT® REPLACEMENT PARTS SUITABLE FOR TRUMPF®

## SERVICE ITEMS AND SPARE PARTS SUITABLE FOR TRUMPF®

### BELLOWS SUITABLE FOR TRUMPF® 6050



HG17.016  
HG17.128  
HG17.143  
HG17.153-HG17.156

#### Railings

| Part No. | Ref. No.                | Description           | Std. Pkg. | Part No. | Ref. No. | Description                      | Std. Pkg. |
|----------|-------------------------|-----------------------|-----------|----------|----------|----------------------------------|-----------|
| HG17.153 | 1987171/1251452         | Bellows X-axis, right | 1pc       | HG17.143 | 1222111  | Bellows Y-axis, right            | 1pc       |
| HG17.154 | 1987173/1251453         | Bellows X-axis, left  | 1pc       | HG17.013 | 1946658  | Bellows Y-axis (fiber 5040/6040) | 1pc       |
| HG17.155 | 1987172/1251454         | Bellows X-axis, left  | 1pc       | HG17.128 | 979561   | Bellows Z-axis, rear             | 1pc       |
| HG17.156 | 1987174/1251455/1805789 | Bellows U-axis        | 1pc       |          |          |                                  |           |

#### Beam guideway

| Part No. | Ref. No.        | Description                         | Std. Pkg. | Part No.   | Ref. No. | Description                | Std. Pkg. |
|----------|-----------------|-------------------------------------|-----------|------------|----------|----------------------------|-----------|
| HG17.148 | 1222110         | Combined Chest Bellows Y-axis, left | 1pc       | HG17.159 ✖ | 1306473  | Disk Bellows X-axis, left  | 1pc       |
| HG17.158 | 1353516/1306472 | Combined Disk Bellows Y-axis, left  | 1pc       | HG17.160   | 1306474  | Disk Bellows X-axis, right | 1pc       |

### BELLOWS SUITABLE FOR TRUMPF® 3030 (L20/L49)



HG17.129  
HG17.161-HG17.163  
HG17.169  
HG17.186

#### Railings

| Part No.        | Ref. No.        | Description                 | Std. Pkg. | Part No. | Ref. No.        | Description               | Std. Pkg. |
|-----------------|-----------------|-----------------------------|-----------|----------|-----------------|---------------------------|-----------|
| HG17.161        | 1865269/1458867 | Railing Cover X-axis, left  | 1pc       | HG17.169 | 2446554/2918570 | Bellows Y-axis            | 1pc       |
| HG17.162        | 1865268/1458866 | Railing Cover X-axis, right | 1pc       | HG17.163 | 1512607         | Bellows Z-axis            | 1pc       |
| 1865270/1722672 | 1865270/1722672 | Railing Cover X-axis, left  | 1pc       | HG17.186 | 1595345         | Bellows Z-axis (3030 L49) | 1pc       |
| HG17.129        | 1879074/1595381 | Bellows Y-axis              | 1pc       |          |                 |                           |           |

#### Beam guideway

| Part No. | Ref. No. | Description                         | Std. Pkg. | Part No. | Ref. No.        | Description                     | Std. Pkg. |
|----------|----------|-------------------------------------|-----------|----------|-----------------|---------------------------------|-----------|
| HG17.164 | 1496436  | Combined Disk Bellows Y-axis, left  | 1pc       | HG17.166 | 1458860         | Disk Bellows X-axis, front left | 1pc       |
| HG17.165 | 1496435  | Combined Disk Bellows Y-axis, right | 1pc       | HG17.167 | 1458861/1854030 | Disk Bellows X-axis, rear left  | 1pc       |

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# THERMACUT® REPLACEMENT PARTS SUITABLE FOR TRUMPF®

## SERVICE ITEMS AND SPARE PARTS SUITABLE FOR TRUMPF®

### BELLOWS SUITABLE FOR TRUMPF® 8030 (L60)



HG17.017  
HG17.181-HG17.184  
HG17.200

#### Railings

| Part No. | Ref. No.                | Description                       | Std. Pkg. | Part No. | Ref. No.                | Description                       | Std. Pkg. |
|----------|-------------------------|-----------------------------------|-----------|----------|-------------------------|-----------------------------------|-----------|
| HG17.200 | 1761798/1626782         | Railing Cover X-axis, lower left  | 1pc       | HG17.184 | 1761994/1626771/1805022 | Railing Cover Y-axis, upper right | 1pc       |
| HG17.181 | 1762044/1650240         | Railing Cover X-axis, lower right | 1pc       | HG17.017 | 0386073                 | Railing Cover                     | 1pc       |
| HG17.182 | 1761827/1626781/1805023 | Railing Cover Y-axis, lower left  | 1pc       |          |                         |                                   |           |
| HG17.183 | 1761826/1626780         | Railing Cover Y-axis, upper left  | 1pc       |          |                         |                                   |           |

### GAS AND WATER FILTERS



HG17.130



HG17.131



HG17.132

| Part No. | Ref. No.      | Description                             | Std. Pkg. | Part No. | Ref. No.      | Description                 | Std. Pkg. |
|----------|---------------|-----------------------------------------|-----------|----------|---------------|-----------------------------|-----------|
| HG17.130 | 146152        | Filtr Chisso CP10                       | 1pc       | HG17.133 | 123676/377004 | Filter Insertion AKP 04/20S | 1pc       |
| HG17.136 | 1888631       | Water Filter 20 inch                    | 1pc       | HG17.134 | 365781        | Filter Insertion MFP 04/10  | 1pc       |
| HG17.131 | 123674/377006 | Air Filter Insertion FFP03              | 1pc       | HG17.135 | 365782        | Filter Insertion SMFP 04/10 | 1pc       |
| HG17.132 | 123675/377005 | Air Filter Insertion AIR/N <sub>2</sub> | 1pc       |          |               |                             |           |

### SUITABLE FOR COOLING AGGREGATE

| Part No. | Ref. No. | Description                     | Std. Pkg. | Part No. | Ref. No. | Description                      | Std. Pkg. |
|----------|----------|---------------------------------|-----------|----------|----------|----------------------------------|-----------|
| HG10.181 | HG10.181 | Air Filter Roll 20000×2000×8mm  | 1pc       | HG11.188 | HG11.187 | Air Filter 1530×1530×8mm (25pcs) | 1pc       |
| HG10.182 | HG10.182 | Air Filter Roll 40000×2000×8mm  | 1pc       | HG10.188 | HG10.188 | Air Filter 1670×660×8mm (25pcs)  | 1pc       |
|          |          | Air Filter 820×790×8mm (25pcs)  | 1pc       | HG10.178 | HG10.178 | Air Filter 2420×550×8mm (25pcs)  | 1pc       |
| HG10.191 | HG10.191 | Air Filter 990×890×8mm (25pcs)  | 1pc       | HG10.189 | HG10.189 | Air Filter 2420×560×8mm (25pcs)  | 1pc       |
| HG10.190 | HG10.190 | Air Filter 1200×700×8mm (25pcs) | 1pc       |          |          |                                  |           |
| HG10.187 | HG10.187 | Air Filter 1520×755×8mm (25pcs) | 1pc       |          |          |                                  |           |

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# THERMACUT® REPLACEMENT PARTS SUITABLE FOR TRUMPF®

## SERVICE ITEMS AND SPARE PARTS SUITABLE FOR TRUMPF®

### PRODUCTS FOR CLEANING



HG10.177



HG10.173

| Part No. | Ref. No.        | Description                   | Std. Pkg. | Part No. | Ref. No.        | Description                      | Std. Pkg. |
|----------|-----------------|-------------------------------|-----------|----------|-----------------|----------------------------------|-----------|
| HG10.180 | 0367430/0370681 | Cotton Pads (50pcs)           | 1pc       | HG10.173 | 0086452/1687226 | Lens cleaning paper from TIFFEN® | 1pc       |
|          |                 | Cotton Swabs Long (50pcs)     | 1pc       |          |                 |                                  |           |
| HG10.177 | 1222024         | Knit Polyester Swabs (100pcs) | 1pc       |          |                 |                                  |           |
| HG10.174 | 2243506         | Polish for Laser Lenses       | 1pc       |          |                 |                                  |           |

### OILS AND LUBRICANTS



HG17.060



OS-10189



N-20144

| Part No.  | Ref. No. | Description                   | Std. Pkg. | Part No. | Ref. No. | Description                  | Std. Pkg. |
|-----------|----------|-------------------------------|-----------|----------|----------|------------------------------|-----------|
| HG17.060* | 0356259  | Cut Fluid 10L                 | 1pc       | OS-10189 | 111780   | Replace Microlube GB 00, 5kg | 1pc       |
|           | 0134336  | Vacuum Pump Oil, 1L           | 1pc       |          |          |                              |           |
| HG10.172  | 0368910  | Tonna Oil "S32", 5L canister  | 1pc       |          |          |                              |           |
|           | 0368910  | Tonna Oil "S32", 20L canister | 1pc       |          |          |                              |           |
| Part No.  | Ref. No. | Description                   | Std. Pkg. |          |          |                              |           |
| N-20144   | 223322   | Laser Positioning Tape        | 1pc       |          |          |                              |           |

### WATER PUMPS SUITABLE FOR TRUMPF®

| Part No. | Ref. No.         | Description                                                    | Std. Pkg. |
|----------|------------------|----------------------------------------------------------------|-----------|
| HG17.020 | 941996 / 0149023 | Circuit lubricated rotary valve - Vacuum pump - original HYCO® | 1pc       |
| HG17.021 | 1363752          | Vacuum Pump (with 4 pole receptacle plug) - original HYCO®     | 1pc       |

\* THIS PRODUCT CANNOT BE SHIPPED AT TEMPERATURES BELOW 4°C.

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## THERMACUT® REPLACEMENT PARTS SUITABLE FOR TRUMPF® CONSUMABLES CASE SUITABLE FOR TRUMPF®

**Description:** full case with the whole range of consumables suitable for Trumf® (without lenses and protection windows).



| Part No. | Ref. No. | Description           | Std. Pkg. |
|----------|----------|-----------------------|-----------|
| HG1111   | HG1111   | Trumf® full show case | 1pc       |

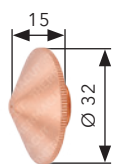
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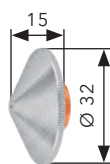
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## THERMACUT® REPLACEMENT PARTS SUITABLE FOR RAYTOOLS®



HG11.051–HG11.059

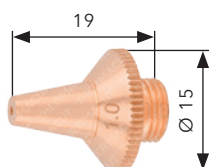


HG11.060–HG11.068

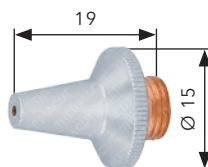


HG11.050

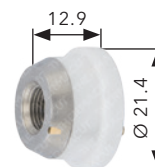
| Part No. | Ref. No.   | Description                             | Std. Pkg. | Part No. | Ref. No.   | Description             | Std. Pkg. |
|----------|------------|-----------------------------------------|-----------|----------|------------|-------------------------|-----------|
| HG11.069 | HG11.069   | Protection Window D27.90mm × ET = 4.1mm | 1pc       | HG11.050 | 120274100B | Nozzle Holder           | 1pc       |
| HG11.051 | 120GJT0508 | Nozzle 0.8mm                            | 10pcs     | HG11.060 | 120GJT0608 | Double Nozzle 0.8mm HCP | 10pcs     |
| HG11.052 | 120GJT0510 | Nozzle 1.0mm                            | 10pcs     | HG11.061 | 120GJT0610 | Double Nozzle 1.0mm HCP | 10pcs     |
| HG11.053 | 120GJT0512 | Nozzle 1.2mm                            | 10pcs     | HG11.062 | 120GJT0612 | Double Nozzle 1.2mm HCP | 10pcs     |
| HG11.054 | 120GJT0515 | Nozzle 1.5mm                            | 10pcs     | HG11.063 | 120GJT0615 | Double Nozzle 1.5mm HCP | 10pcs     |
| HG11.055 | 120GJT0520 | Nozzle 2.0mm                            | 10pcs     | HG11.064 | 120GJT0620 | Double Nozzle 2.0mm HCP | 10pcs     |
| HG11.056 | 120GJT0525 | Nozzle 2.5mm                            | 10pcs     | HG11.065 | 120GJT0625 | Double Nozzle 2.5mm HCP | 10pcs     |
| HG11.057 | 120GJT0530 | Nozzle 3.0mm                            | 10pcs     | HG11.066 | 120GJT0630 | Double Nozzle 3.0mm HCP | 10pcs     |
| HG11.058 | 120GJT0535 | Nozzle 3.5mm                            | 10pcs     | HG11.067 | 120GJT0635 | Double Nozzle 3.5mm HCP | 10pcs     |
| HG11.059 | 120GJT0540 | Nozzle 4.0mm                            | 10pcs     | HG11.068 | 120GJT0640 | Double Nozzle 4.0mm HCP | 10pcs     |



HG11.651–HG11.658



HG11.659–HG11.667



HG11.650

Standard copper nozzles / Standard copper nozzles with hard chromium plating

| Part No. | Ref. No.   | Description           | Std. Pkg. | Part No. | Ref. No.   | Description             | Std. Pkg. |
|----------|------------|-----------------------|-----------|----------|------------|-------------------------|-----------|
| HG11.650 | 120515093A | Ceramic Nozzle Holder | 1pc       | HG11.659 | 120GJT0208 | Double Nozzle 0.8mm HCP | 1pc       |
| HG11.651 | 120GJT0910 | Nozzle 1.0mm          | 1pc       | HG11.660 | 120GJT0210 | Double Nozzle 1.0mm HCP | 1pc       |
| HG11.652 | 120GJT0912 | Nozzle 1.2mm          | 1pc       | HG11.661 | 120GJT0212 | Double Nozzle 1.2mm HCP | 1pc       |
| HG11.653 | 120GJT0915 | Nozzle 1.5mm          | 1pc       | HG11.662 | 120GJT0215 | Double Nozzle 1.5mm HCP | 1pc       |
| HG11.654 | 120GJT0920 | Nozzle 2.0mm          | 1pc       | HG11.663 | 120GJT0220 | Double Nozzle 2.0mm HCP | 1pc       |
| HG11.655 | 120GJT0925 | Nozzle 2.5mm          | 1pc       | HG11.664 | 120GJT0225 | Double Nozzle 2.5mm HCP | 1pc       |
| HG11.656 | 120GJT0930 | Nozzle 3.0mm          | 1pc       | HG11.665 | 120GJT0230 | Double Nozzle 3.0mm HCP | 1pc       |
| HG11.657 | 120GJT0935 | Nozzle 3.5mm          | 1pc       | HG11.666 | 120GJT0235 | Double Nozzle 3.5mm HCP | 1pc       |
| HG11.658 | 120GJT0940 | Nozzle 4.0mm          | 1pc       | HG11.667 | 120GJT0240 | Double Nozzle 4.0mm HCP | 1pc       |

## PROTECTION WINDOWS SUITABLE FOR RAYTOOLS®



HG11.069  
HG11.270

| Part No. | Ref. No.   | Description                                  | Std. Pkg. |
|----------|------------|----------------------------------------------|-----------|
| HG11.069 | 211LCG0037 | Protection Window D27.90mm × ET = 4.1mm, 6kW | 1pc       |
| HG11.270 | 211LCG0020 | Protection Window D24.90mm × ET = 1.5mm, 6kW | 1pc       |

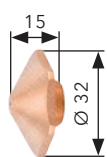
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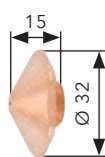
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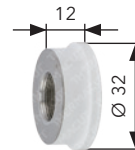
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HG11.070–HG11.080



HG11.081–HG11.091



HG11.050

| Part No. | Ref. No.    | Description                             | Std. Pkg. | Part No. | Ref. No. | Description         | Std. Pkg. |
|----------|-------------|-----------------------------------------|-----------|----------|----------|---------------------|-----------|
| HG17.524 | P0595-56801 | Protection Window D37.00mm × ET = 7.0mm | 1pc       | HG11.080 | HG11.080 | Nozzle 5.0mm        | 10pcs     |
| HG11.050 | 120274100B  | Nozzle Holder                           | 1pc       | HG11.081 | HG11.081 | Double Nozzle 0.8mm | 10pcs     |
| HG11.070 | HG11.070    | Nozzle 0.8mm                            | 10pcs     | HG11.082 | HG11.082 | Double Nozzle 1.0mm | 10pcs     |
| HG11.071 | HG11.071    | Nozzle 1.0mm                            | 10pcs     | HG11.083 | HG11.083 | Double Nozzle 1.2mm | 10pcs     |
| HG11.072 | HG11.072    | Nozzle 1.2mm                            | 10pcs     | HG11.084 | HG11.084 | Double Nozzle 1.5mm | 10pcs     |
| HG11.073 | HG11.073    | Nozzle 1.5mm                            | 10pcs     | HG11.085 | HG11.085 | Double Nozzle 2.0mm | 10pcs     |
| HG11.074 | HG11.074    | Nozzle 2.0mm                            | 10pcs     | HG11.086 | HG11.086 | Double Nozzle 2.5mm | 10pcs     |
| HG11.075 | HG11.075    | Nozzle 2.5mm                            | 10pcs     | HG11.087 | HG11.087 | Double Nozzle 3.0mm | 10pcs     |
| HG11.076 | HG11.076    | Nozzle 3.0mm                            | 10pcs     | HG11.088 | HG11.088 | Double Nozzle 3.5mm | 10pcs     |
| HG11.077 | HG11.077    | Nozzle 3.5mm                            | 10pcs     | HG11.089 | HG11.089 | Double Nozzle 4.0mm | 10pcs     |
| HG11.078 | HG11.078    | Nozzle 4.0mm                            | 10pcs     | HG11.090 | HG11.090 | Double Nozzle 4.5mm | 10pcs     |
| HG11.079 | HG11.079    | Nozzle 4.5mm                            | 10pcs     | HG11.091 | HG11.091 | Double Nozzle 5.0mm | 10pcs     |

## PROTECTION WINDOWS SUITABLE FOR BODOR®



HG17.526

| Part No. | Ref. No.                | Description                                   | Std. Pkg. |
|----------|-------------------------|-----------------------------------------------|-----------|
| HG17.526 | 31205000123/31205000144 | Protection Window D30.00mm × ET = 5.0mm, 15kW | 1pc       |

## THERMACUT® REPLACEMENT PARTS SUITABLE FOR RAYTOOLS®, BOCI®, SENFENG®, BODOR®



HG11.570



HG11.571–HG11.580

| Part No. | Ref. No.   | Description             | Std. Pkg. | Part No. | Ref. No.   | Description             | Std. Pkg. |
|----------|------------|-------------------------|-----------|----------|------------|-------------------------|-----------|
| HG11.570 | HG11.570   | Ceramic Nozzle Holder   | 1pc       | HG11.576 | 120AU3620A | Double Nozzle 2.0mm HCP | 1pc       |
| HG11.571 | 120AU3612A | Double Nozzle 1.2mm HCP | 1pc       | HG11.577 | 120AU3625A | Double Nozzle 2.5mm HCP | 1pc       |
| HG11.572 | 120AU3614A | Double Nozzle 1.4mm HCP | 1pc       | HG11.578 | 120AU3630A | Double Nozzle 3.0mm HCP | 1pc       |
| HG11.573 | 120AU3615A | Double Nozzle 1.5mm HCP | 1pc       | HG11.579 | 120AU3635A | Double Nozzle 3.5mm HCP | 1pc       |
| HG11.574 | 120AU3616A | Double Nozzle 1.6mm HCP | 1pc       | HG11.580 | 120AU3640A | Double Nozzle 4.0mm HCP | 1pc       |
| HG11.575 | 120AU3618A | Double Nozzle 1.8mm HCP | 1pc       |          |            |                         |           |

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## THERMACUT® REPLACEMENT PARTS SUITABLE FOR BOCI®, SENFENG®



HG11.581–HG11.590

| Part No. | Ref. No. | Description                                   | Std. Pkg. | Part No. | Ref. No. | Description  | Std. Pkg. |
|----------|----------|-----------------------------------------------|-----------|----------|----------|--------------|-----------|
| HG17.513 | D34T5    | Protection Window D34.00mm × ET = 5.0mm, 30kW | 1pc       | HG11.586 | HG11.586 | Nozzle 2.5mm | 1pc       |
| HG11.581 | HG11.581 | Nozzle 1.2mm                                  | 1pc       | HG11.587 | HG11.587 | Nozzle 3.0mm | 1pc       |
| HG11.582 | HG11.582 | Nozzle 1.5mm                                  | 1pc       | HG11.588 | HG11.588 | Nozzle 3.5mm | 1pc       |
| HG11.583 | HG11.583 | Nozzle 1.6mm                                  | 1pc       | HG11.589 | HG11.589 | Nozzle 4.0mm | 1pc       |
| HG11.584 | HG11.584 | Nozzle 1.8mm                                  | 1pc       | HG11.590 | HG11.590 | Nozzle 5.0mm | 1pc       |
| HG11.585 | HG11.585 | Nozzle 2.0mm                                  | 1pc       |          |          |              |           |

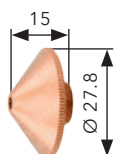
## PROTECTION WINDOWS SUITABLE FOR OTHERS



HG17.529  
HG16.601  
HG17.533, HG17.532  
HG17.519  
HG17.513

| Part No. | Ref. No. | Description                                   | Std. Pkg. |
|----------|----------|-----------------------------------------------|-----------|
| HG17.529 | HG17.529 | Protection Window D38.10mm × ET = 5.0mm, 15kW | 1pc       |
| HG16.601 | HG16.601 | Protection Window D65.00mm × ET = 2.0mm, 30kW | 1pc       |
| HG17.533 | HG17.533 | Protection Window D40.00mm × ET = 5.0mm, 30kW | 1pc       |
| HG17.532 | HG17.532 | Protection Window D26.60mm × ET = 5.0mm, 6kW  | 1pc       |
| HG17.519 | HG17.519 | Protection Window D36.00mm × ET = 5.1mm, 30kW | 1pc       |
| HG17.513 | D34T5    | Protection Window D34.00mm × ET = 5.0mm, 30kW | 1pc       |

## THERMACUT® REPLACEMENT PARTS SUITABLE FOR RAYTOOLS®, BOCI®, WSX®, BODOR®



HG11.126–HG11.138

| Part No. | Ref. No.        | Description  | Std. Pkg. | Part No. | Ref. No.        | Description  | Std. Pkg. |
|----------|-----------------|--------------|-----------|----------|-----------------|--------------|-----------|
| HG11.129 | P0591-673-00008 | Nozzle 0.8mm | 10pcs     | HG11.137 | HG11.137        | Nozzle 2.7mm | 10pcs     |
| HG11.130 | P0591-571-00010 | Nozzle 1.0mm | 10pcs     | HG11.138 | P0591-577-00030 | Nozzle 3.0mm | 10pcs     |
| HG11.131 | P0591-572-00012 | Nozzle 1.2mm | 10pcs     | HG11.128 | HG11.128        | Nozzle 3.5mm | 10pcs     |
| HG11.132 | P0591-573-00015 | Nozzle 1.5mm | 10pcs     | HG11.127 | P0591-578-00040 | Nozzle 4.0mm | 10pcs     |
| HG11.133 | P0591-574-00018 | Nozzle 1.8mm | 10pcs     | HG11.126 | P0591-579-00050 | Nozzle 5.0mm | 10pcs     |
| HG11.134 | P0591-575-00020 | Nozzle 2.0mm | 10pcs     |          |                 |              |           |
| HG11.135 | HG11.135        | Nozzle 2.3mm | 10pcs     |          |                 |              |           |
| HG11.136 | P0591-576-00025 | Nozzle 2.5mm | 10pcs     |          |                 |              |           |

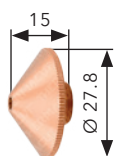
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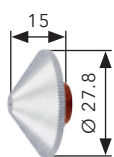
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## THERMACUT® REPLACEMENT PARTS SUITABLE FOR RAYTOOLS®, BOCI®, WSX®, BODOR®



HG11.300–HG11.308

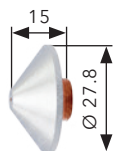
| Part No. | Ref. No.        | Description         | Std. Pkg. | Part No.                                        | Ref. No.        | Description         | Std. Pkg. |
|----------|-----------------|---------------------|-----------|-------------------------------------------------|-----------------|---------------------|-----------|
| HG11.309 | HG11.309        | Double Nozzle 0.8mm | 10pcs     | HG11.305                                        | P0591-002-00023 | Double Nozzle 2.3mm | 10pcs     |
| HG11.300 | P0591-002-00010 | Double Nozzle 1.0mm | 10pcs     | HG11.306                                        | P0591-002-00025 | Double Nozzle 2.5mm | 10pcs     |
| HG11.301 | P0591-002-00012 | Double Nozzle 1.2mm | 10pcs     | HG11.307                                        | P0591-002-00030 | Double Nozzle 3.0mm | 10pcs     |
| HG11.302 | P0591-002-00015 | Double Nozzle 1.5mm | 10pcs     | HG11.308                                        | P0591-002-00035 | Double Nozzle 3.5mm | 10pcs     |
| HG11.303 | P0591-002-00018 | Double Nozzle 1.8mm | 10pcs     | HG10.276-LS <span style="color: red;">OD</span> | P0591-002-00040 | Double Nozzle 4.0mm | 10pcs     |
| HG11.304 | P0591-002-00020 | Double Nozzle 2.0mm | 10pcs     | HG10.277-LS <span style="color: red;">OD</span> | P0591-002-00050 | Double Nozzle 5.0mm | 10pcs     |



HG11.129/C–HG11.134/C

Standard copper nozzles with chromium plating

| Part No.                                       | Ref. No.          | Description      | Std. Pkg. | Part No.                                       | Ref. No.          | Description      | Std. Pkg. |
|------------------------------------------------|-------------------|------------------|-----------|------------------------------------------------|-------------------|------------------|-----------|
| HG11.129/C <span style="color: red;">OD</span> | P0591-673-00008CP | Nozzle 0.8mm HCP | 10pcs     | HG11.135/C <span style="color: red;">OD</span> | HG11.135CP        | Nozzle 2.3mm HCP | 10pcs     |
| HG11.130/C                                     | P0591-571-00010CP | Nozzle 1.0mm HCP | 10pcs     | HG11.136/C                                     | P0591-576-00025CP | Nozzle 2.5mm HCP | 10pcs     |
| HG11.131/C                                     | P0591-572-00012CP | Nozzle 1.2mm HCP | 10pcs     | HG11.137/C                                     | HG11.137CP        | Nozzle 2.7mm HCP | 10pcs     |
| HG11.132/C                                     | P0591-573-00015CP | Nozzle 1.5mm HCP | 10pcs     | HG11.138/C                                     | P0591-577-00030CP | Nozzle 3.0mm HCP | 10pcs     |
| HG11.133/C <span style="color: red;">OD</span> | P0591-574-00018CP | Nozzle 1.8mm HCP | 10pcs     | HG11.128/C                                     | HG11.128CP        | Nozzle 3.5mm HCP | 10pcs     |
| HG11.134/C                                     | P0591-575-00020CP | Nozzle 2.0mm HCP | 10pcs     |                                                |                   |                  |           |



HG11.300/C–HG11.304/C

Double copper nozzles with chromium plating

| Part No.   | Ref. No.          | Description             | Std. Pkg. | Part No.                                       | Ref. No.          | Description             | Std. Pkg. |
|------------|-------------------|-------------------------|-----------|------------------------------------------------|-------------------|-------------------------|-----------|
| HG11.300/C | P0591-002-00010CP | Double Nozzle 1.0mm HCP | 10pcs     | HG11.306/C                                     | P0591-002-00025CP | Double Nozzle 2.5mm HCP | 10pcs     |
| HG11.301/C | P0591-002-00012CP | Double Nozzle 1.2mm HCP | 10pcs     | HG11.307/C                                     | P0591-002-00030CP | Double Nozzle 3.0mm HCP | 10pcs     |
| HG11.302/C | P0591-002-00015CP | Double Nozzle 1.5mm HCP | 10pcs     | HG11.308/C <span style="color: red;">OD</span> | P0591-002-00035CP | Double Nozzle 3.5mm HCP | 10pcs     |
| HG11.303/C | P0591-002-00018CP | Double Nozzle 1.8mm HCP | 10pcs     |                                                |                   |                         |           |
| HG11.304/C | P0591-002-00020CP | Double Nozzle 2.0mm HCP | 10pcs     |                                                |                   |                         |           |
| HG11.305/C | P0591-002-00023CP | Double Nozzle 2.3mm HCP | 10pcs     |                                                |                   |                         |           |

OD ON DEMAND – WE DO NOT KEEP THESE PARTS IN STOCK, COST IS SET ACCORDING TO THE ORDERED QUANTITY, DELIVERY TIME MAY DIFFER FROM STANDARD PRODUCTS.

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## REVISION HISTORY

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INTRODUCTORY SECTION – Revision on PAGE 3 – 08/06/2026 – Bulgarian contact information added.

AMADA® SECTION – Revision on PAGE 7 – 08/06/2026 – Description of parts HG10.789-LS, HG10.829-LS, HG10.830-LS, HG10.831-LS changed.

BYSTRONIC® SECTION – Revision on PAGE 14 – 08/06/2026 – OD note removed from the table and from the footer.

BYSTRONIC® SECTION – Revision on PAGE 15 – 08/06/2026 – OD note removed from the table.

MAZAK® SECTION – Revision on PAGE 20 – 08/06/2026 – Parts HG10.671-LS, HG10.673-LS removed from the table.

Precitec® SECTION – Revision on PAGES 28, 29 – 08/06/2026 – Dimensions of the part HG11.100 changed in the picture. Reorganization of the tables. OD note removed from the table and from the footer. Picture of parts HG11.300-HG11.308 added.

Precitec® SECTION – Revision on PAGE 32 – 08/06/2026 – OD note removed from parts HG10.818-LS, HG10.819-LS, HG10.821-LS, HG10.822-LS, HG10.823-LS, HG11.012, HG10.824-LS in the tables.

TRUMPF® SECTION – Revision on PAGE 40 – 08/06/2026 – Std. Pkg. of part HG10.301 changed.

RAYTOOLS® SECTION – Revision on PAGE 53 – 08/06/2026 – Part HG11.650 added to the picture.

BOCI®, SENFENG® SECTION – Revision on PAGE 55 – 08/06/2026 – Part HG17.513 added to the table.

OTHERS SECTION – Revision on PAGE 55 – 08/06/2026 – Part HG17.513 added to the table and to the picture description.

RAYTOOLS®, BOCI®, WSX®, BODOR® SECTION – Revision on PAGES 55, 56 – 08/06/2026 – New product line added.

AMADA® SECTION – Revision on PAGE 6 – 13/04/2026 – Part HG10.616 added to the table and to the picture description.

AMADA® SECTION – Revision on PAGE 8 – 13/04/2026 – Parts HG10.907, HG10.908, HG10.909, HG10.910, HG10.911, HG10.912, HG10.913, HG10.914, HG10.915, HG10.916 added to the table.

AMADA®, MITSUBISHI®, Precitec® SECTIONS – Revision on PAGES 10, 26, 34 – 13/04/2026 – Part HG15.002/HU removed from the tables and from the picture descriptions.

AMADA® SECTION – Revision on PAGE 11 – 13/04/2026 – Ref. No. of part HG17.521 changed. Description of parts HG17.521, HG10.794, HG11.795 changed.

BYSTRONIC® SECTION – Revision on PAGE 15 – 13/04/2026 – System name changed.

BYSTRONIC® SECTION – Revision on PAGE 16 – 13/04/2026 – Ref. No. of part HG11.599 changed. Description of parts HG17.517, HG11.599 changed.