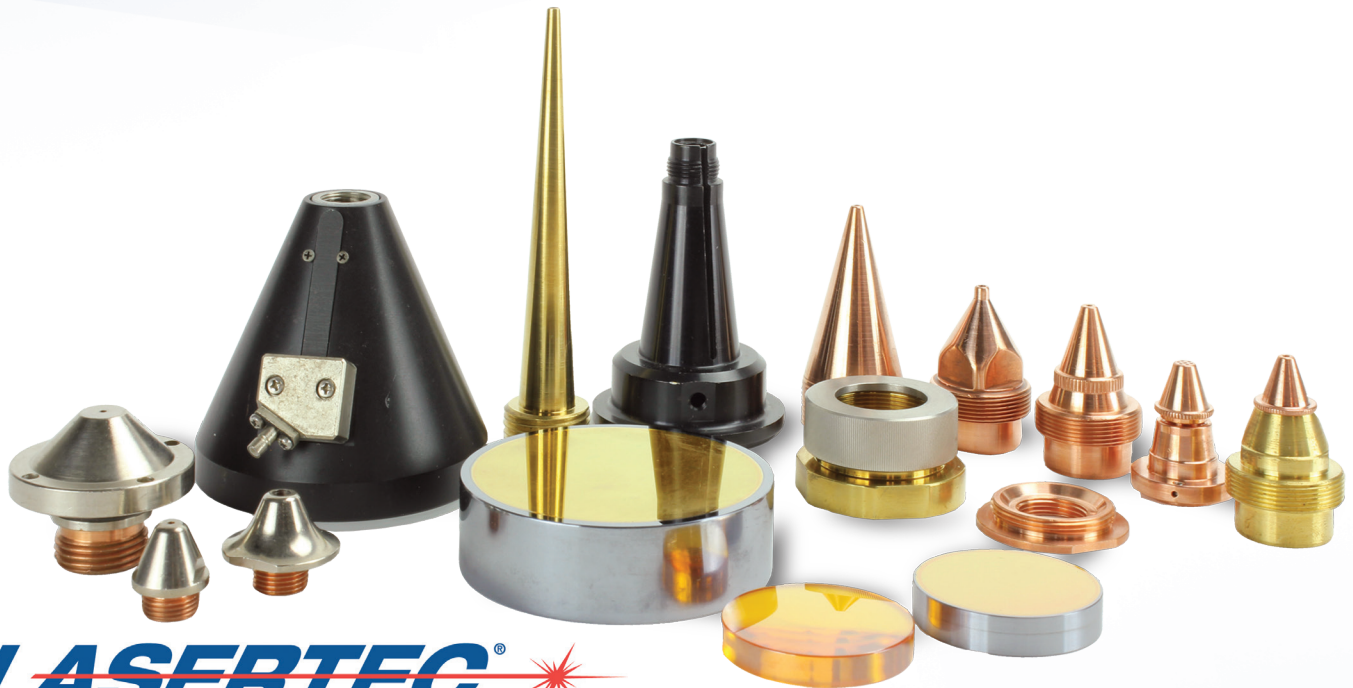


LASER CUTTING PRODUCTS



LASERTEC® 

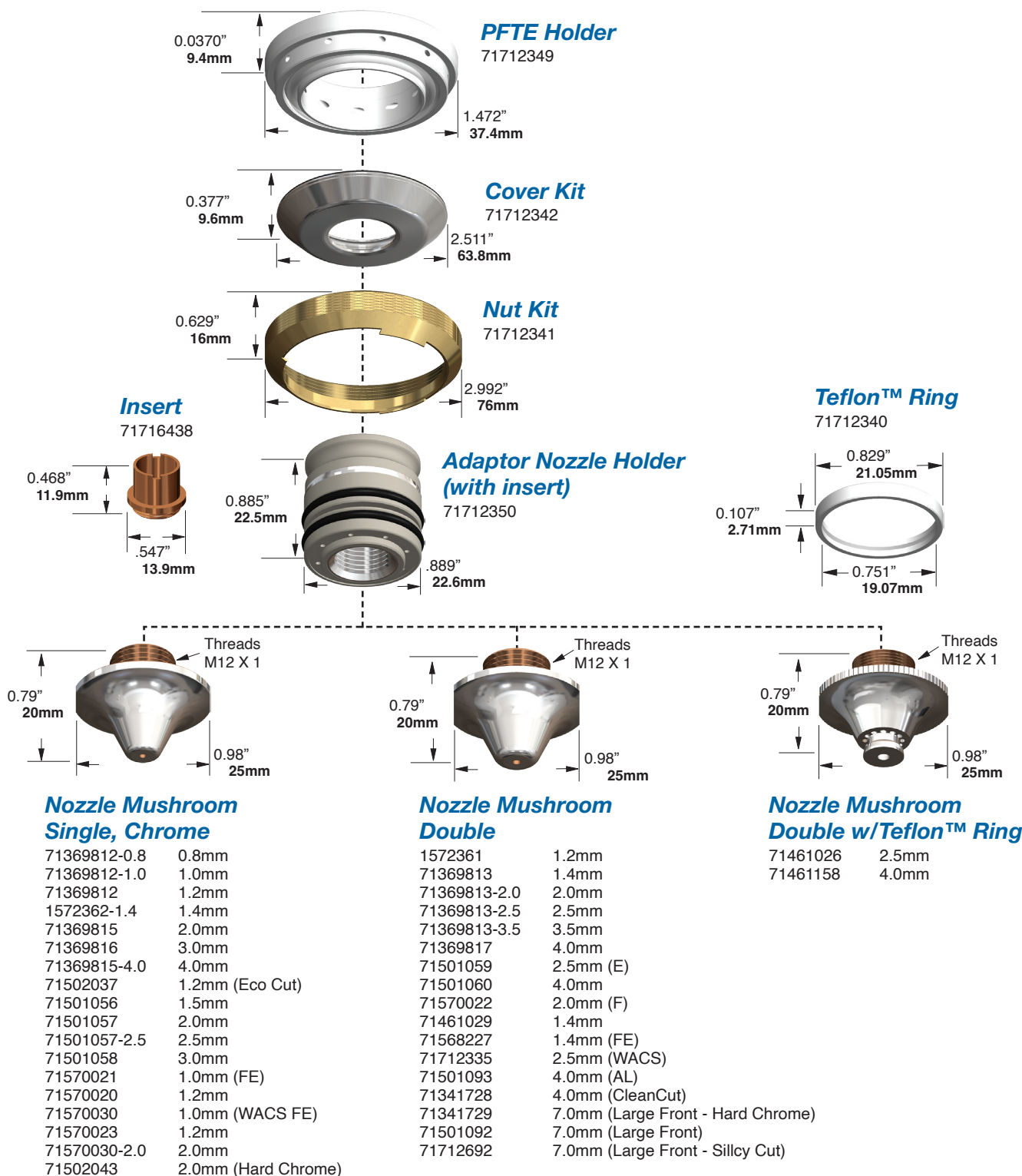
**SENSORS, CONSUMABLES, LENSES,
REFLECTORS AND REPLACEMENT PARTS**

American Torch Tip **LASERTEC®** for Most Brands
Made In the USA

**AMERICAN
TORCH TIP ATTC®** 

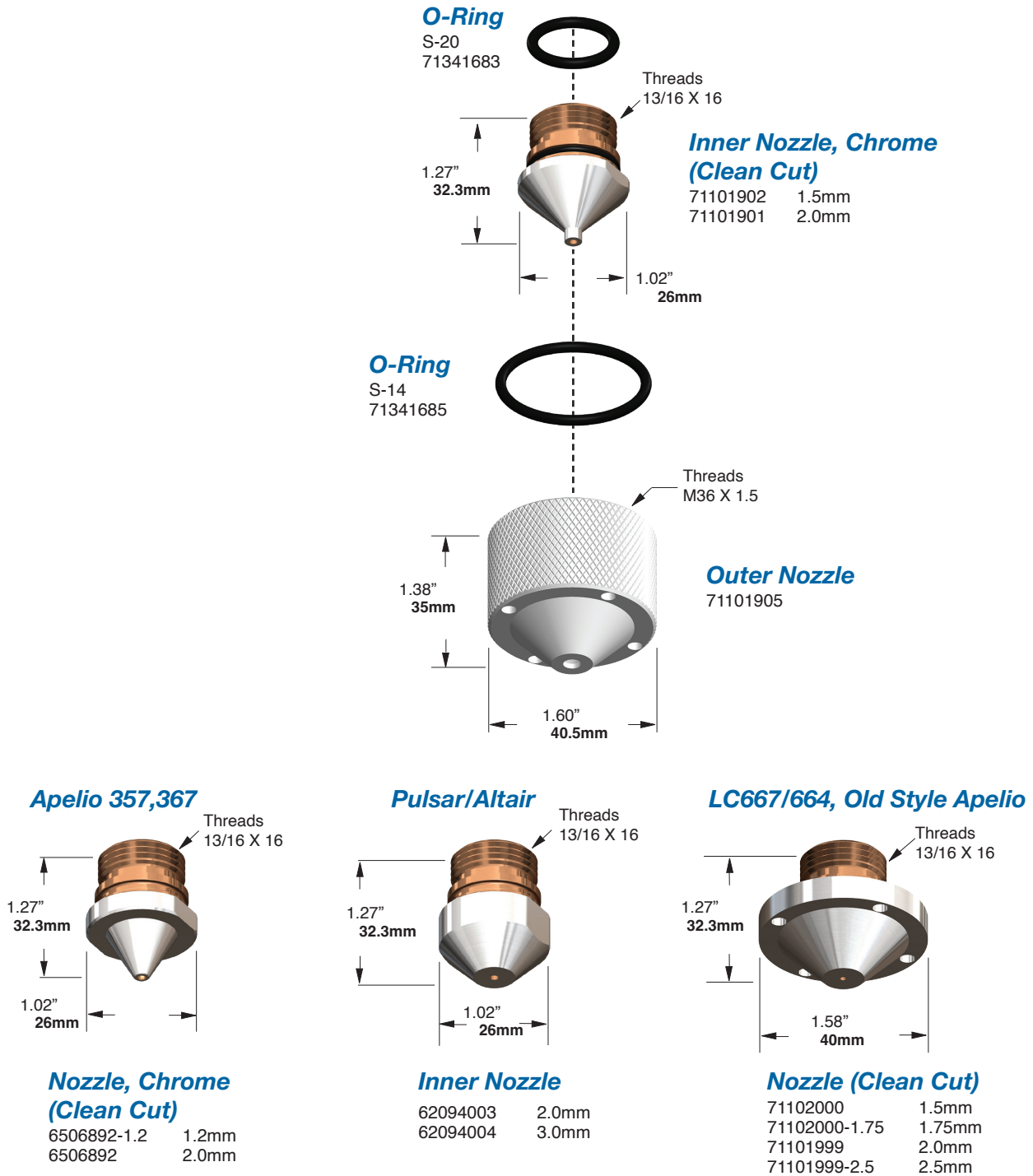
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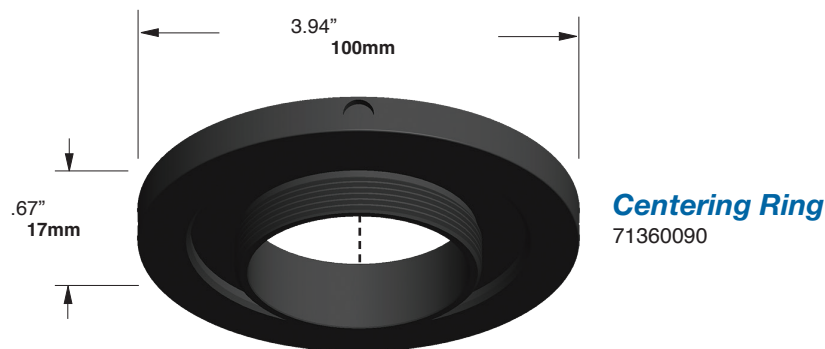


LASMAC 667/664 WATER ASSIST

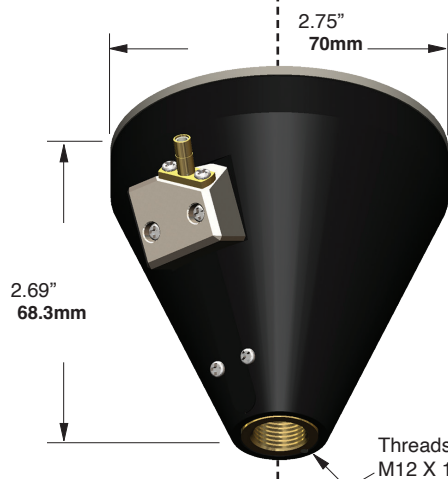
LASER



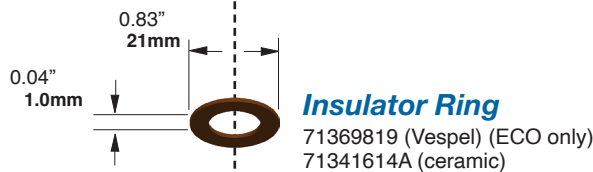
SENSOR SYSTEM HS95



Centering Ring
71360090



Sensor Head
71360091
71360091-Rebuild

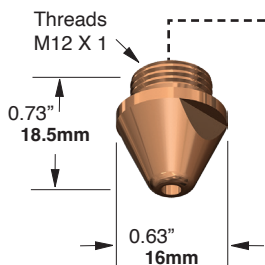


Insulator Ring

71369819 (Vespel) (ECO only)
71341614A (ceramic)

Ext. Nozzle, Chrome

1664545U-1.0	1.0mm
1664545U-1.2	1.2mm
1664545U-1.5	1.5mm
71341610	2.0mm
71341610-2.5	2.5mm
71360142	3.0mm



Nozzle, Chrome w/ large flange

1664545U-1.0R
1664545U-1.5R

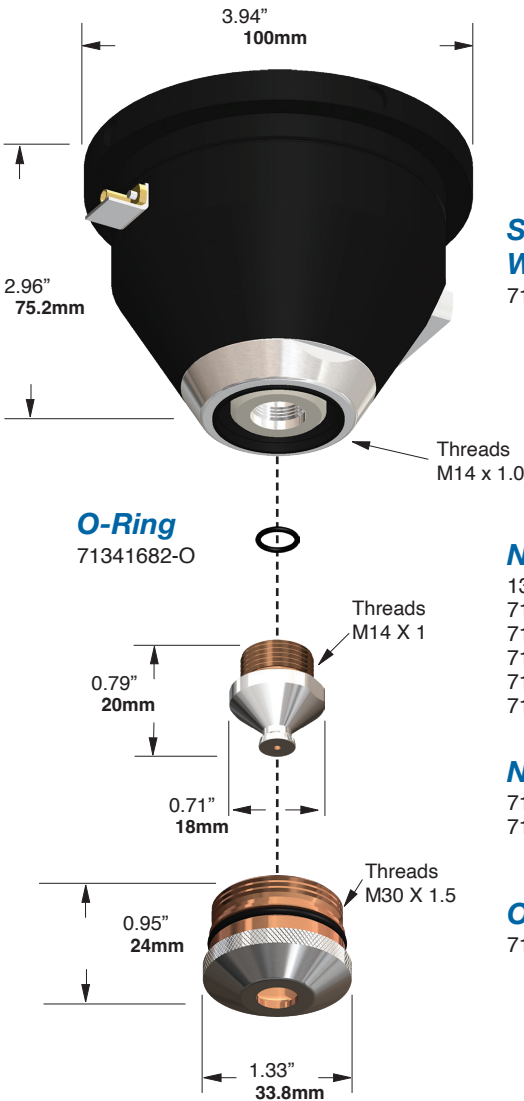


Nozzle Double

1300236	1.4mm
71369809	1.5mm
71341680-2.0	2.0mm
71341680	2.5mm
71341680-3.0	3.0mm
71341680-3.5	3.5mm
71341681	4.0mm

LASER

WACS SENSOR SYSTEM



**Sensor Head
WACS**
71341687- Rebuild

O-Ring
71341682-O

Nozzle Double WACS, Chrome

1300266	1.4mm LP
71341682-1.5	1.5mm
71341682-2.0	2.0mm
71341682	2.5mm
71341682-3.0	3.0mm
71341682-4.0	4.0mm

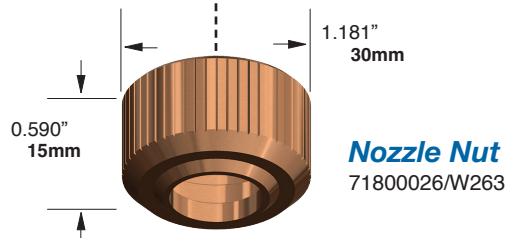
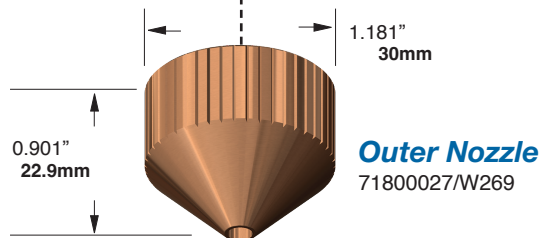
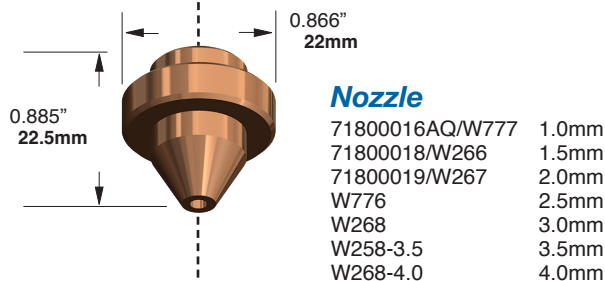
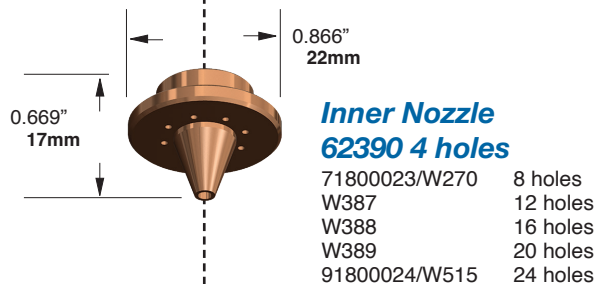
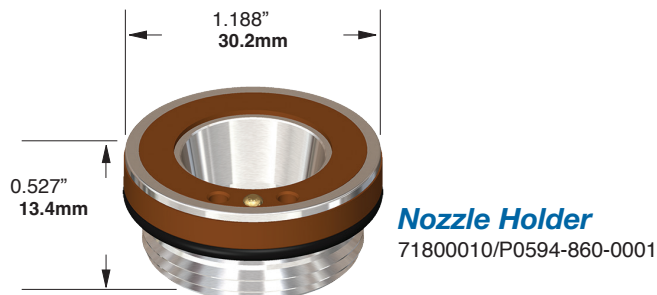
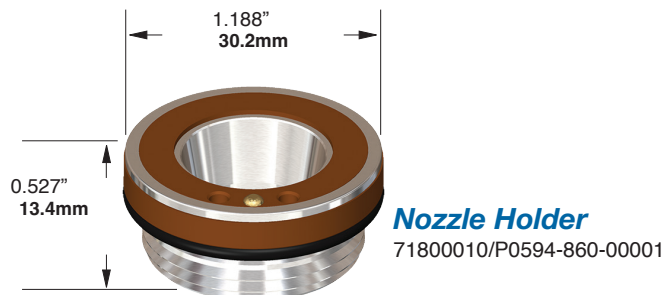
Nozzle Single WACS, Chrome

71366096	2.0mm
71298020	3.0mm

Outer Nozzle, Chrome
71341684

LASER

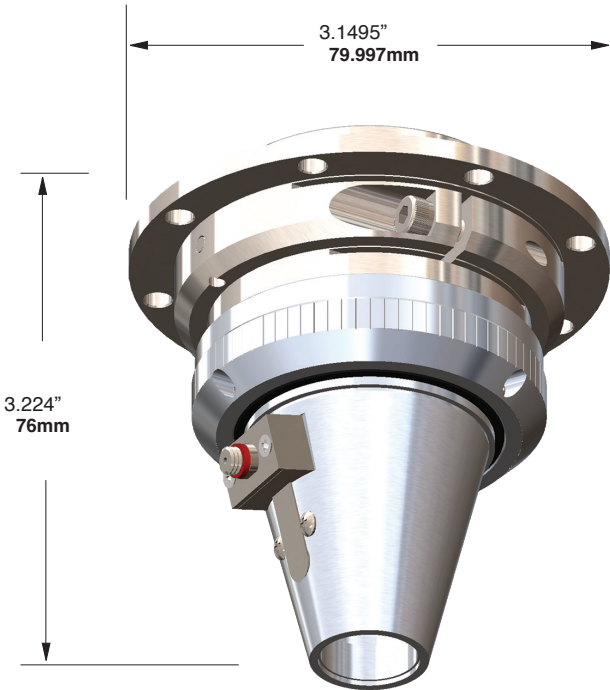
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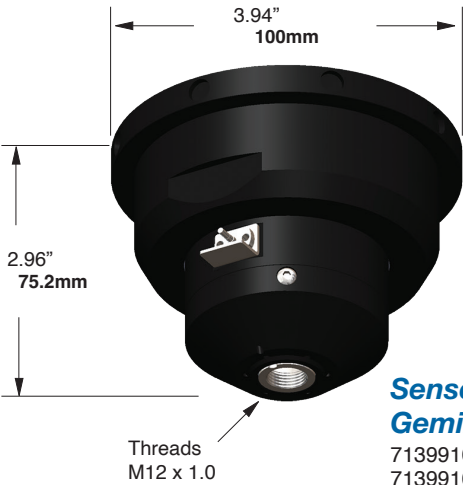
LASER

SENSOR HEADS

LASER



Sensor Head
713416345.0 HS-98



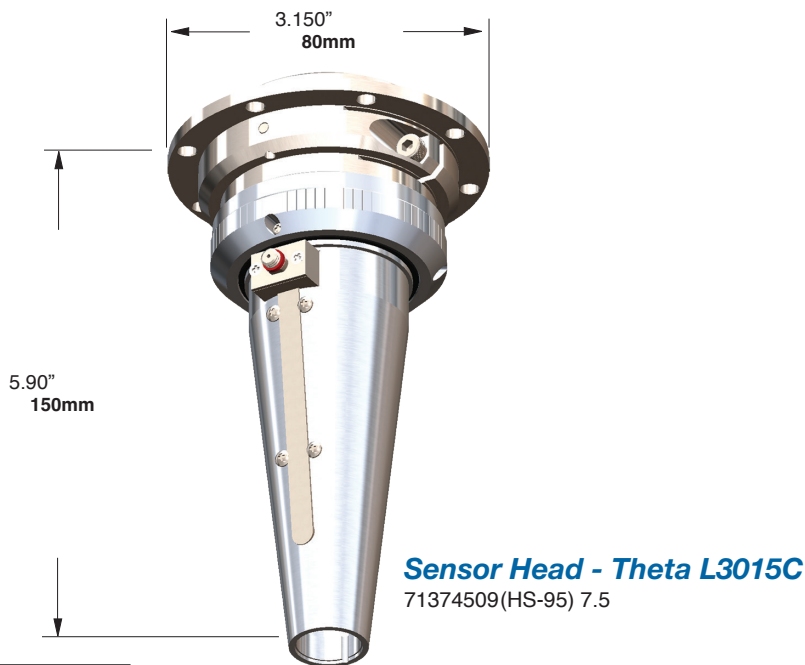
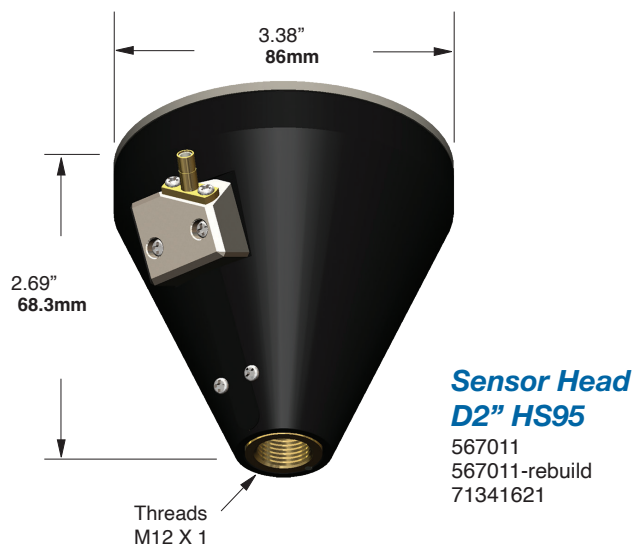
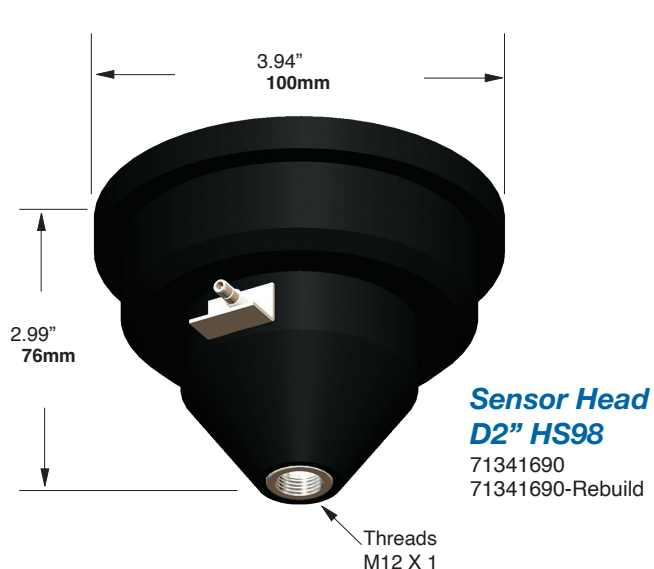
**Sensor Head (ECO)
Gemini**
71399107
71399107-Rebuild



Sensor Head
71341622

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SENSOR HEADS

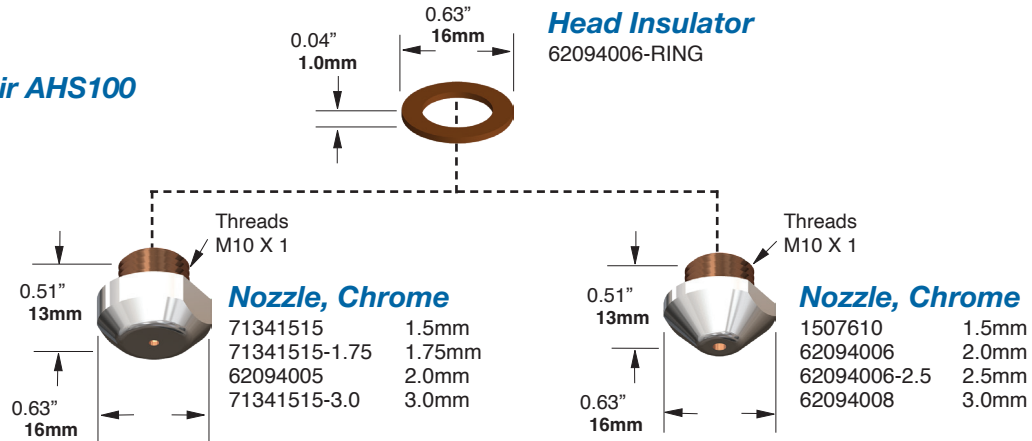


Parts Available but Not Shown

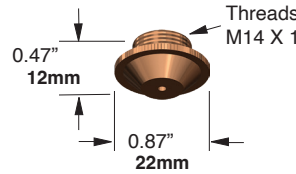
71341630/71398965	Cable HS-95
71341690-6	O-Ring Kit for 71341690
71361393	Lens Gasket for 2" Mount
71512355	Lens Gasket for 2" Mount
71109613	Small Lens Gasket
71398293	Cable

LASER

Pulsar/Altair AHS100



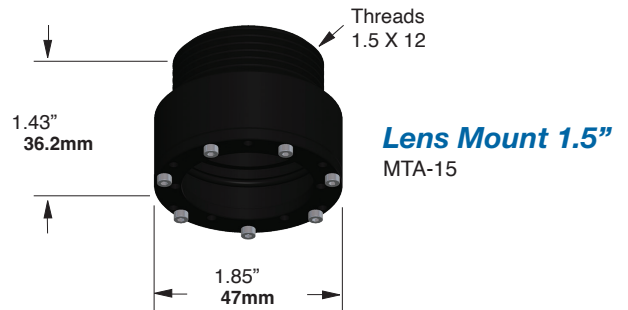
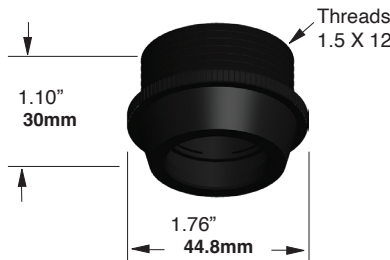
Cap. Nozzle
8249301 2.0mm



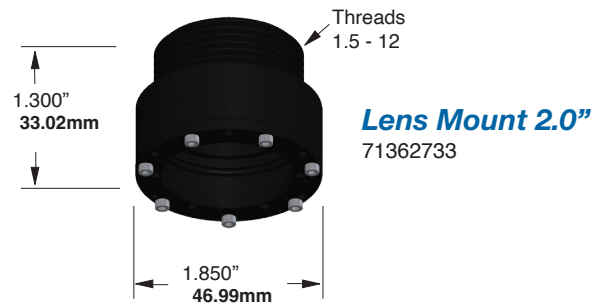
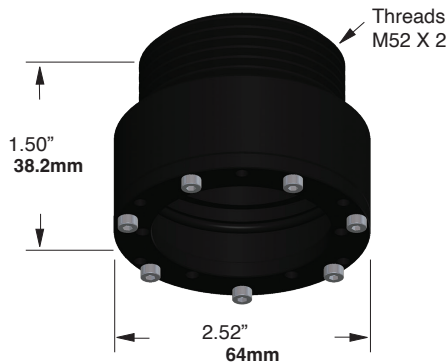
LASER

LENS MOUNTS

Lens Mount 1.1"
MTA-11



Lens Mount 2.0"
MTA-20



Parts Available but Not Shown

71501070 Focusing lens 7.5 focal length with mount
71501072 Focusing lens 5.0 Focal length with mount

OPTICS FOR AMADA® LASERS

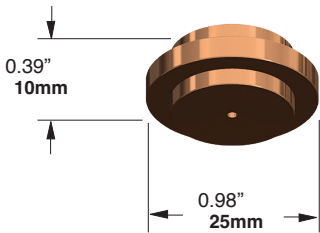
Focusing Lenses

P/N	Lasertec P/N	Material	Diameter	Focal Length	Edge Thickness
81140186	ZC20750380	ZnSe	2.0"	7.5"	.390"
81140190	ZC11250160	ZnSe	1.1"	2.5"	.160"
81140221	ZC15375300	ZnSe	1.5"	3.75"	.300"
81140225	ZC11375160	ZnSe	1.1"	3.75"	.160"
81140305	ZC11500160	ZnSe	1.1"	5.0"	.160"
81140306	ZC15500300	ZnSe	1.5"	5.0"	.300"
81140307	ZC20500380	ZnSe	2.0"	5.0"	.380"
81140389	ZC11750160	ZnSe	1.1"	7.5"	.160"
81140400	ZC15750300	ZnSe	1.5"	7.5"	.300"

PROTECTIVE WINDOWS

P/N	Material	Diameter	Edge Thickness
71570026	FS	Octagonal	1.5mm
71571308	FS	45mm	8mm

LASER



Nozzle

L60	0.8mm
L51	1.0mm
L52	1.2mm
L53	1.5mm
L53-2.0	2.0mm

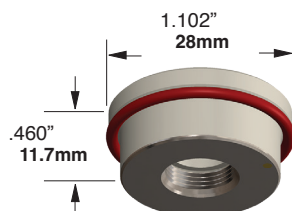
LASER

Nozzle

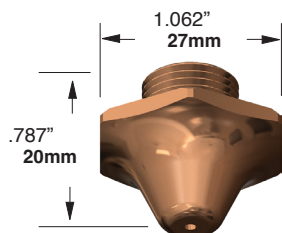
6930250845	1.0mm
6930250846	1.2mm
6930250847	1.5mm
6930250848	1.8mm
6930250849	2.0mm
6930250850	2.3mm
6930250851	2.5mm
6930250852	3.0mm
6930250853	3.5mm
6930250854	4.0mm

Nozzle - Chrome

6930250800	1.0mm
6930250801	1.2mm
6930250802	1.5mm
6930250803	1.8mm
6930250804	2.0mm
6930250805	2.3mm
6930250806	2.5mm
6930250807	3.0mm
6930250808	3.5mm
6930250809	4.0mm



Nozzle Holder
6930003224



Double Nozzle - Chrome

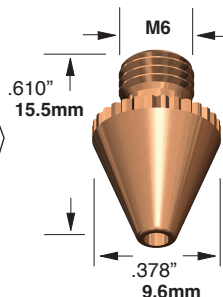
6930250810	1.0mm
6930250811	1.2mm
6930250812	1.5mm
6930250813	1.8mm
6930250814	2.0mm
6930250815	2.3mm
6930250816	2.5mm
6930250817	3.0mm
6930250818	3.5mm



Nozzle Holder
PO494-752-00001

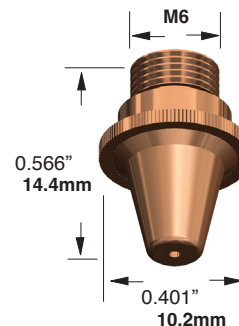
Double Nozzle

6930250857	1.0mm
6930250858	1.2mm
6930250837	1.5mm
6930250859	1.8mm
6930250838	2.0mm
6930250860	2.5mm
6930250861	3.0mm



Nozzle

6930250031	1.0mm
6930250032	1.2mm
6930250033	1.5mm
6930250034	1.8mm
6930250035	2.0mm
6930250043	2.3mm
6930250036	2.5mm
6930250044	3.0mm



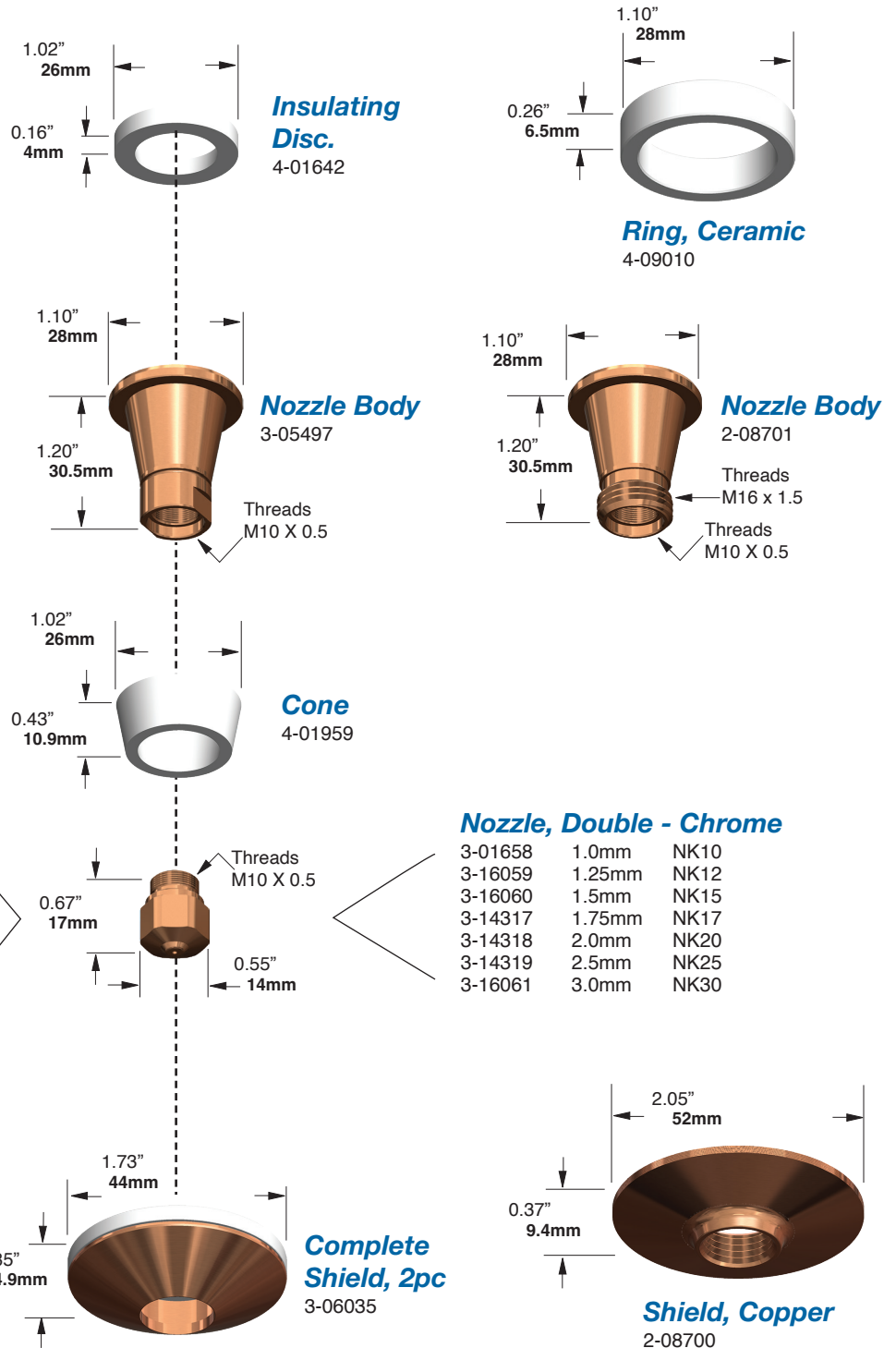
Nozzle

455054	1.0mm
455044	1.2mm
455034	1.5mm
455024	1.8mm
455014	2.0mm
C50762A	2.5mm

LASER

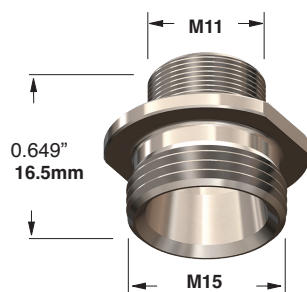
BYSTAR/BYSPRINT

LASER



* Available as a shower nozzle
(3-04273-S)

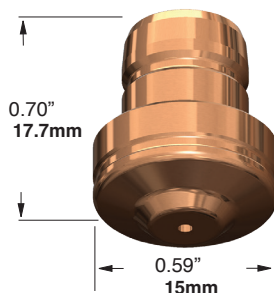
BYSTAR/BYSPRINT/BYSMART



Breakaway
10075057

Quick Release Nozzle

10035266	1.0mm	HK10
10035267	1.2mm	HK12
10035268	1.5mm	HK15
10035269	1.7mm	HK17
10035270	2.0mm	HK20
10035271	2.5mm	HK25
10035272	3.0mm	HK30
10049744	3.5mm	HK35



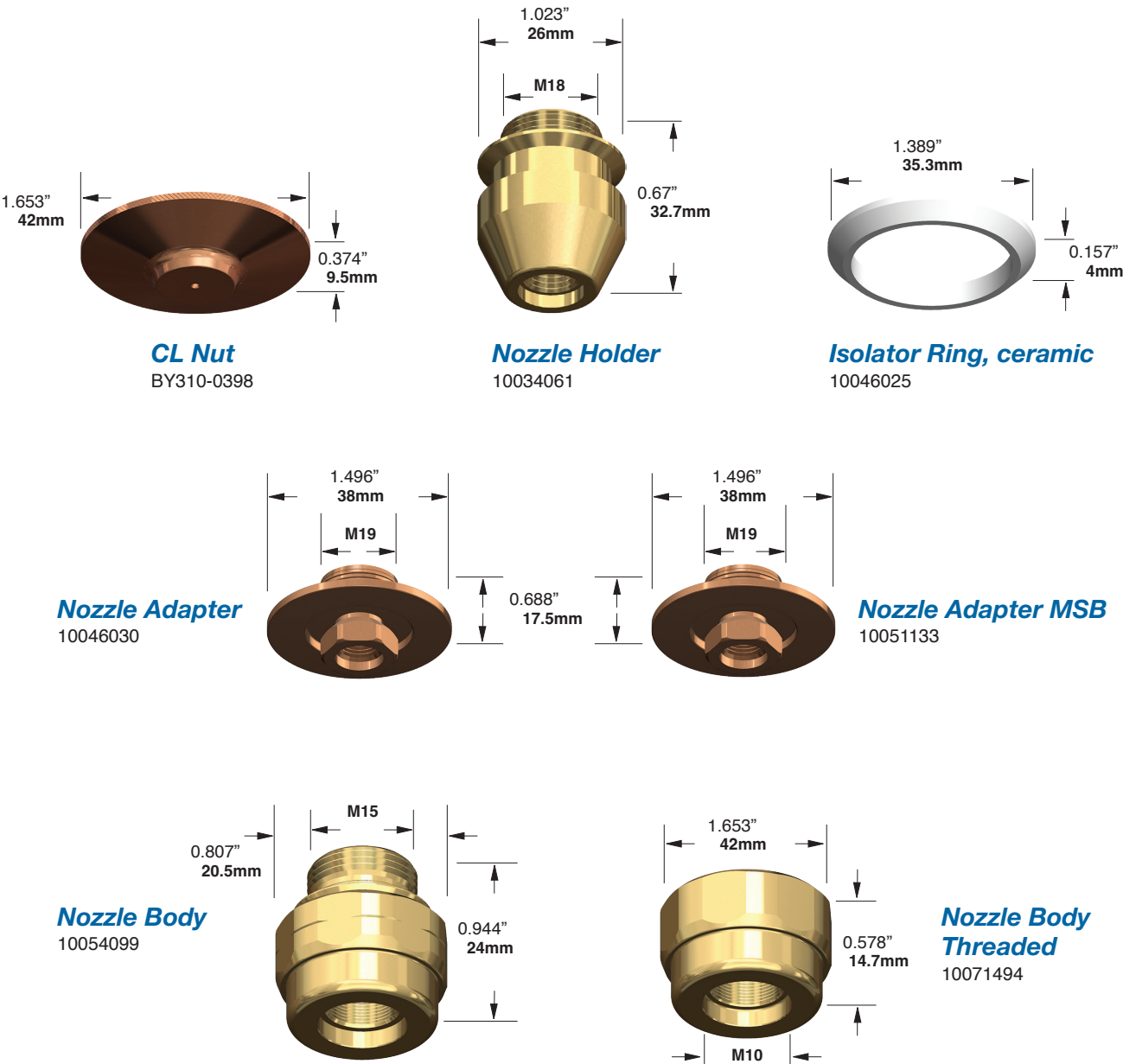
Quick Release Double Nozzle

10049747	1.0mm Double	NK1015
10035275	1.2mm Double	NK1215
10035278	1.5mm Double	NK1515
10035290	1.7mm Double	NK1715
10035292	2.0mm Double	NK2015
10035294	2.5mm Double	NK2515
10035296	2.5mm Double W/ 2.0 Inner	NK2520
10035298	3.0mm Double W/ 1.7 Inner	NK3017
10035301	3.0mm Double	NK3020
10035302	3.5mm Double	NK3530

LASER

Parts Available but Not Shown

10045746 Fused Silica Protective Window 36.0mm x 5.0mm

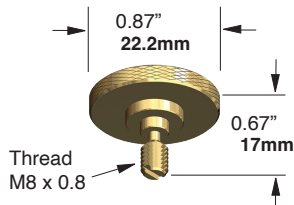


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BYSPEED AND SPARE PARTS

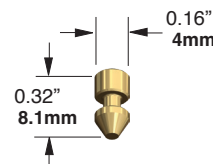
Knurled Screw

4-03136



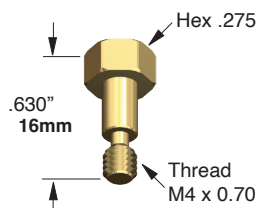
Pin

4-03137



Knurled Screw

4-00324



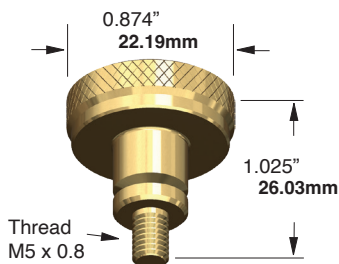
Knurled Screw

3-09001



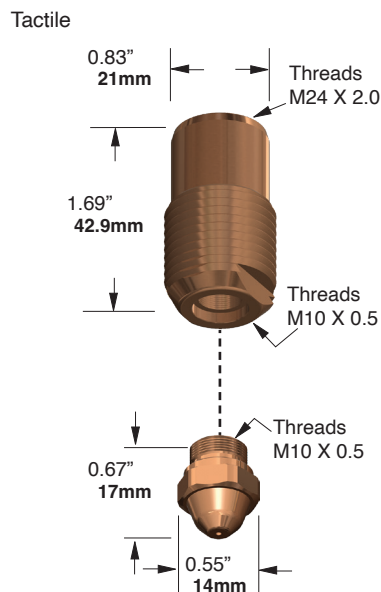
Knurled Screw

4-04976



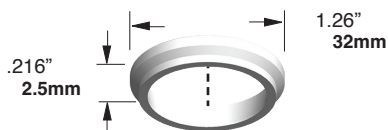
Nozzle Body

3-00407



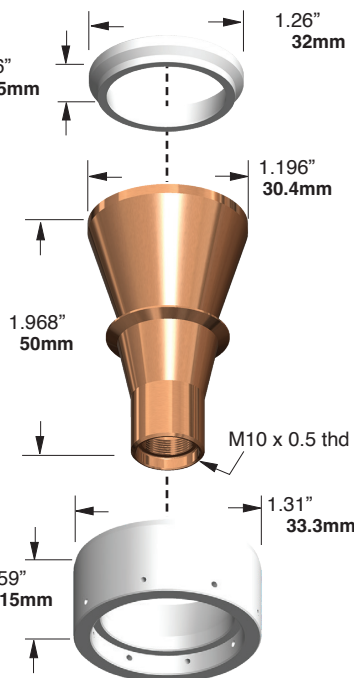
Insulating Ring

3-13113



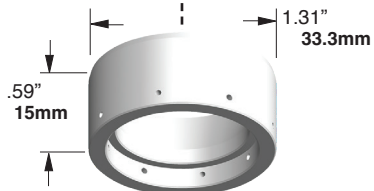
Nozzle Body - Byspeed

2-10837



Insulating Ring

3-13422



LASER

Nozzle Low Pressure

3-04271	0.8mm	08
3-01894	1.0mm	10
3-01895	1.25mm	12
3-01896	1.5mm	15
3-01897	1.75mm	17
3-01898	2.0mm	20
3-04272	2.5mm	25

Nozzle High Pressure

3-04275	0.8mm	H08
3-01899	1.0mm	H10
3-01900	1.25mm	H12
3-01901	1.5mm	H15
3-01902	1.75mm	H17
3-01903	2.0mm	H20
3-04276	2.5mm	H25

OPTICS FOR BYSTRONIC® LASERS

Focusing Lenses

P/N	Lasertec P/N	Material	Diameter	Focal Length	Edge Thickness
4-00184	ZM15250236	ZnSe	1.5"	2.5"	.236"
4-00185	ZM15375236	ZnSe	1.5"	3.75"	.236"
4-00186	ZM15500236	ZnSe	1.5"	5.0"	.236"
4-00187	ZM15750236	ZnSe	1.5"	7.5"	.236"
4-05094	ZM15500350	ZnSe	1.5"	5.0"	.354"
4-05095	ZM15750350	ZnSe	1.5"	7.5"	.354"

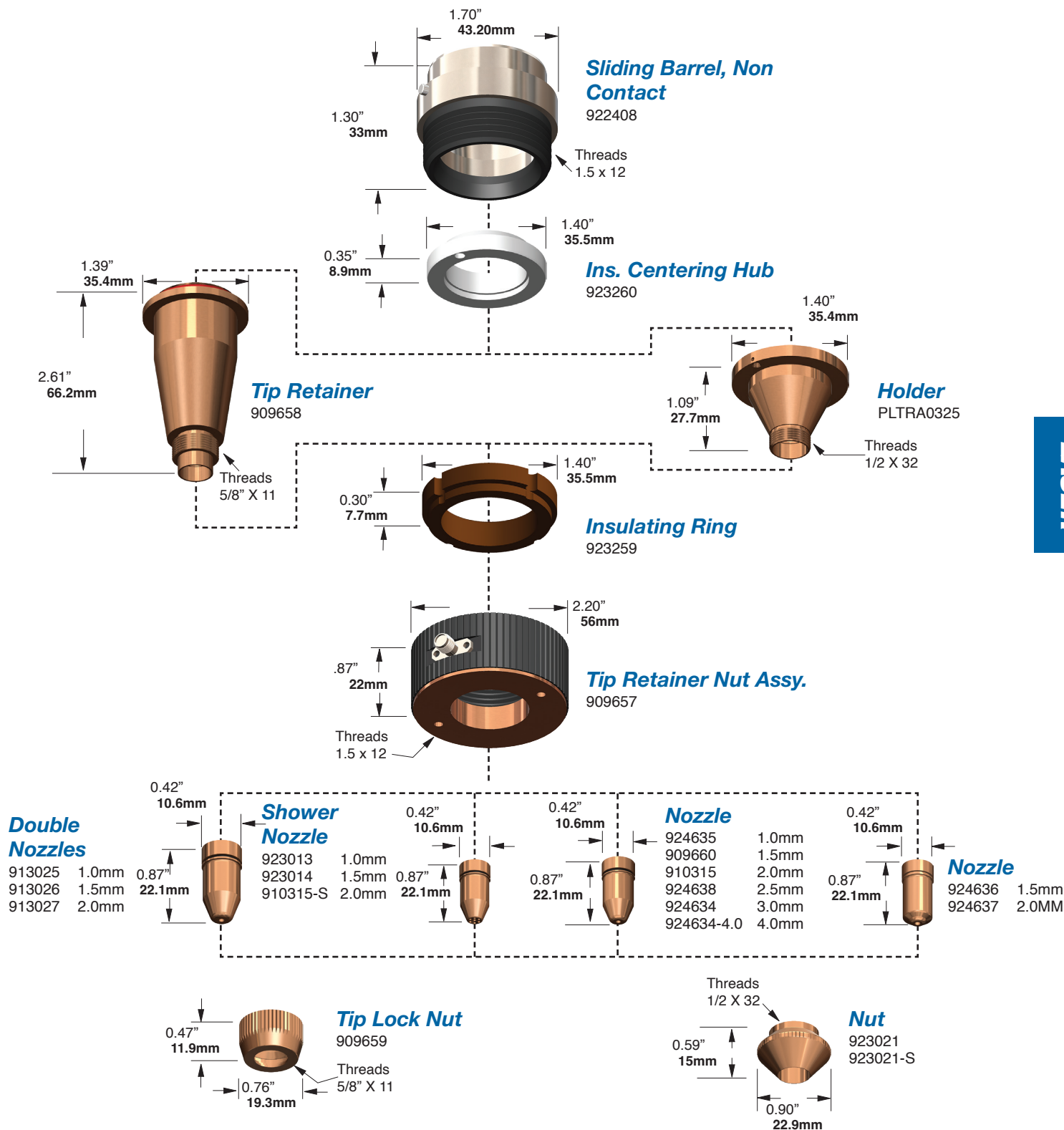
Protective Windows

P/N	Material	Diameter	Edge Thickness
10045746	FS	36mm	5mm

LASER

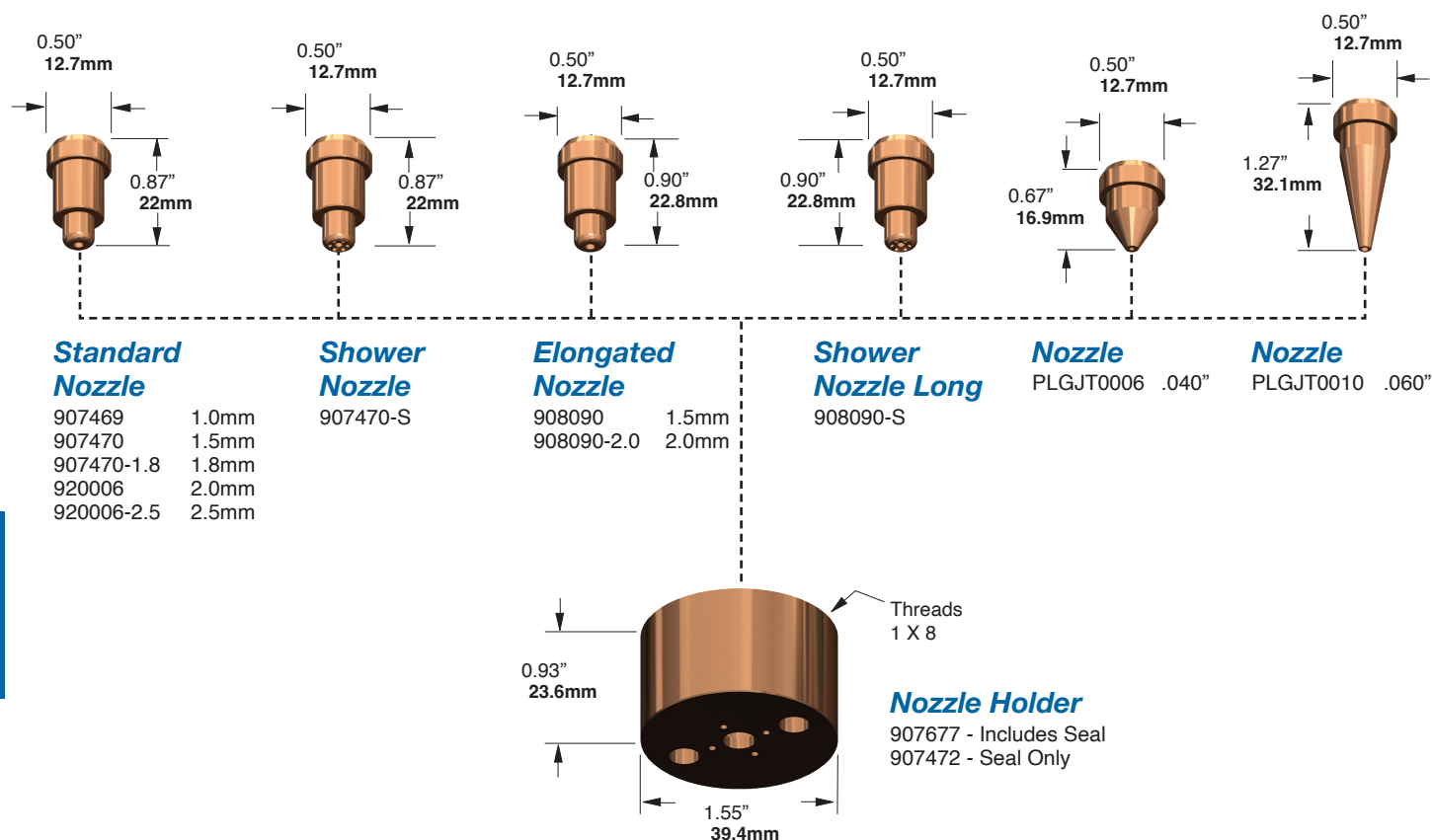
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NON CONTACT HEAD

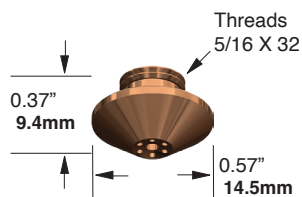
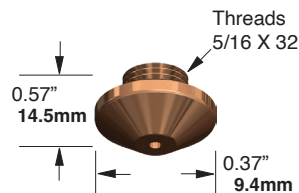


LASER

CONTACT HEAD



LASER

CINCINNATI®
NON CONTACT
Shower Nozzle
 922772

Nozzle
 922464 .060"
 922465 .080"
 922770 .100"

OPTICS FOR CINCINNATI® LASERS

Focusing Lenses

P/N	Lasertec P/N	Material	Diameter	Focal Length	Edge Thick- ness
907557	ZC155018160	ZnSe	1.5"	5.018"	.160"
908085	ZC15513280	ZnSe	1.5"	5.18"	.280"
909484	ZC15763280	ZnSe	1.5"	7.63"	.280"
922376	ZC20769380	ZnSe	2.0"	7.69"	.380"
922377	ZC20519380	ZnSe	2.0"	5.19"	.380"

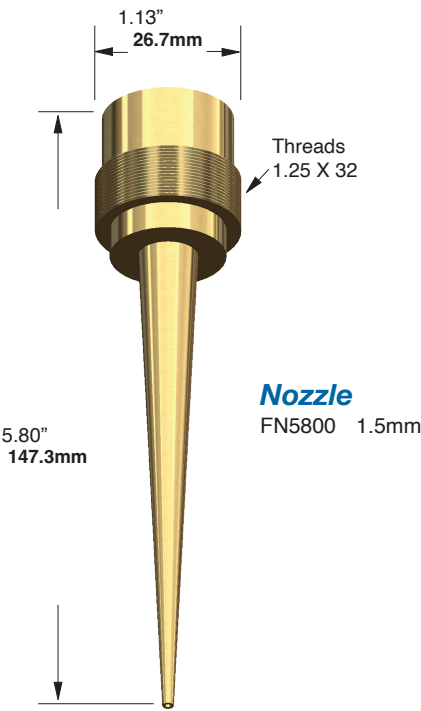
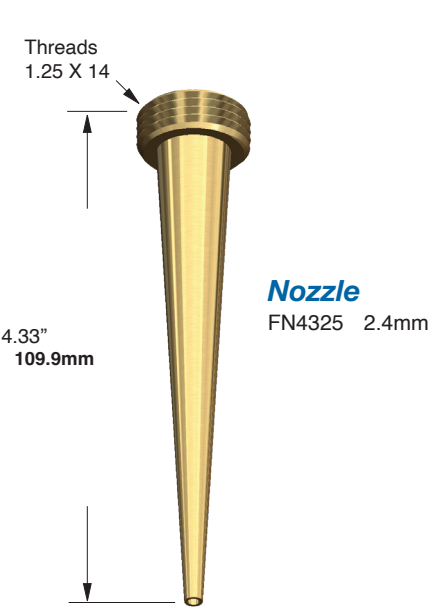
Protective Windows

P/N	Material	Diameter	Edge Thickness
913987	FS	38.1mm	1.6mm

LASER

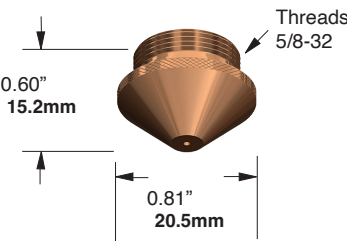
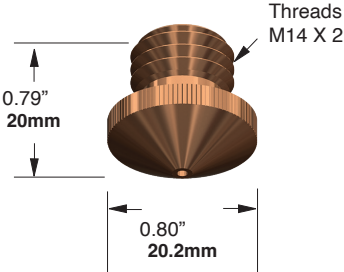
DIRECTED LIGHT® / ELECTROX

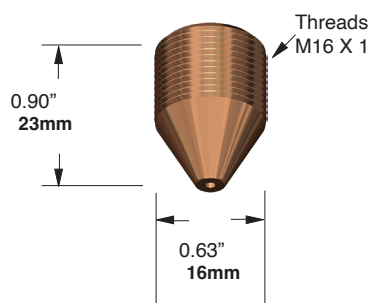
DIRECTED LIGHT®



LASER

ELECTROX

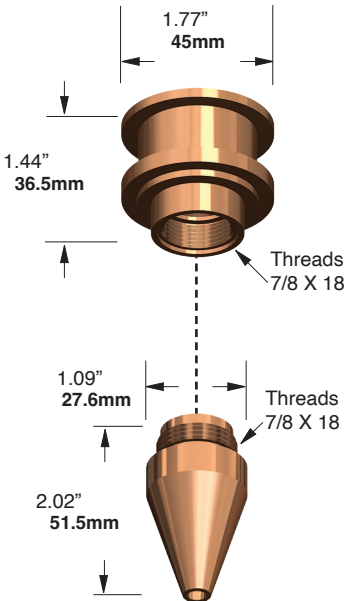




Nozzle

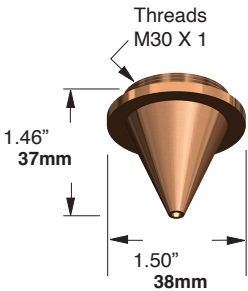
26-71270-60 1.5mm

LASER

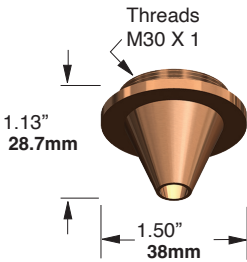


Adapter
100.703.4

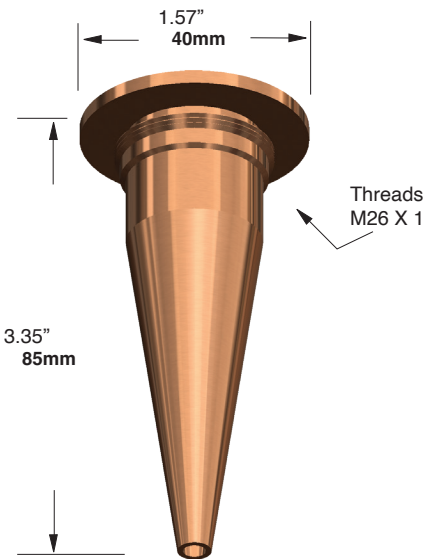
Adapter Tip
100.703.3 5mm



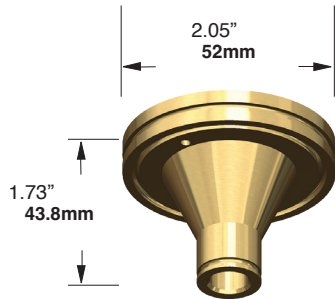
Powder Cone
100.703.2-2.5 2.5mm



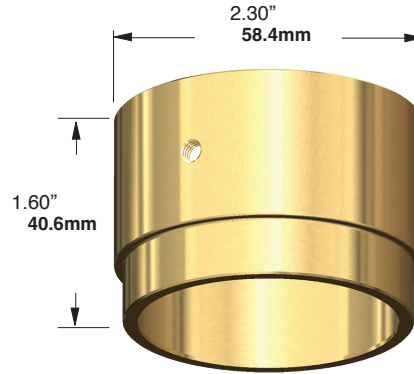
Nozzle
100.703.2 7.4mm



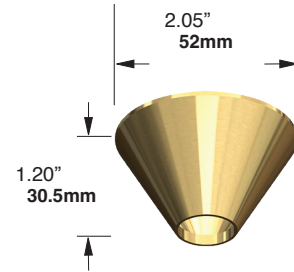
Beam Cone
100.703.5



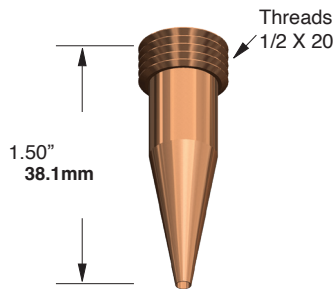
Housing, Main Body
216-20720



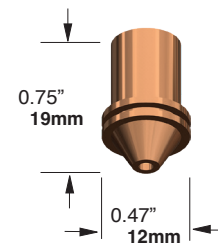
Housing Cover
216-20718



Housing, Water
216-20717



Nozzle, Inner
216-20719

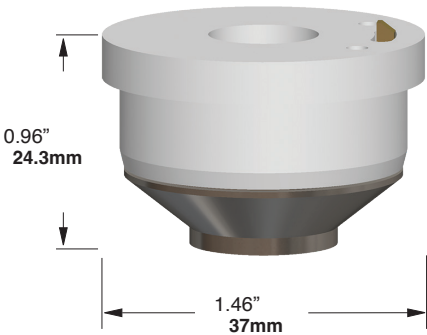


Nozzle, Outer
216-20722 .080

Parts Available but Not Shown

216-20815 Nozzle, Outer Cladding
216-10606 Cladding Nozzle Assembly

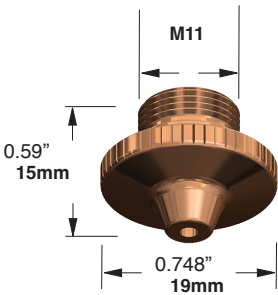
LASER



Nozzle Holder ceramic
HCH-S01201

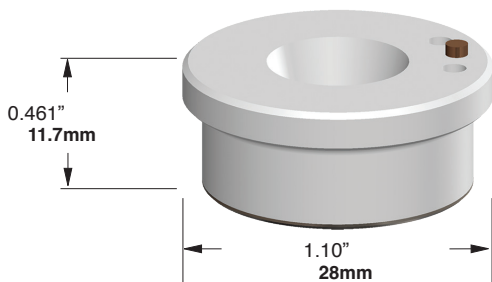
Nozzle N

MX-0989	1.0mm
MX-0990	1.2mm
MX-0991	1.5mm
MX-0993	1.5mm
MX-0992	2.0mm
MX-0994	2.5mm
MX-0995	3.0mm

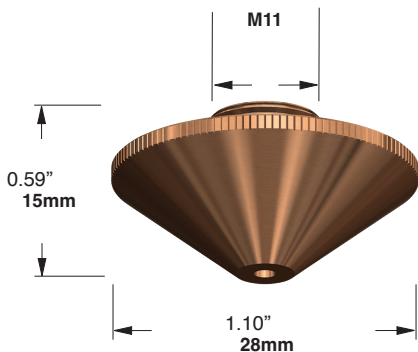


Nozzle Double N

HCH-TP1515	1.5mm
HCH-TP1520	2.0mm
HCH-TP1525	2.5mm
HCH-TP2030	3.0mm



Nozzle Holder ceramic
MX-0875



Nozzle HD

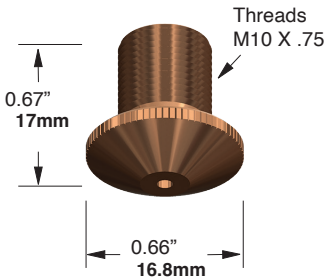
P0591-571-00010 / MX-0860	1.0mm
P0591-572-00012 / MX-0861	1.2mm
P0591-573-00015 / MX-0862	1.5mm
P0591-574-00018 / MX-0863	1.8mm
P0591-575-00020 / MX-0864	2.0mm
P0591-576-00025 / MX-0865	2.5mm

Nozzle Double

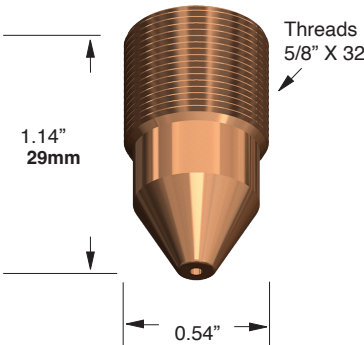
P0591-002-00010	1.0mm/inner	1.5mm
P0591-002-00012	1.2mm/inner	1.5mm
P0591-002-00015 / H03019	1.5mm/inner	1.5mm
P0591-002-00018 / H03021	1.8mm/inner	1.5mm
P0591-002-00020 / H03014	2.0mm/inner	1.5mm
P0591-002-00023 / H03017	2.5mm/inner	1.5mm
P0591-002-00025 / H03023	3.0mm/inner	1.5mm

KOMATSU® / LASAG®

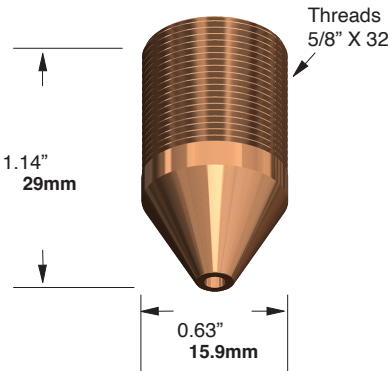
KOMATSU®



Nozzle
968-41-93-761 1.7mm



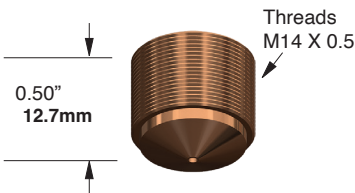
Nozzle Standard
968-41-57-812 1.4mm
968-41-57-812-1.6 1.6mm



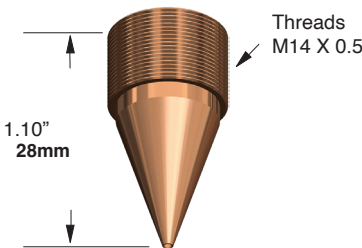
Nozzle Special
968-41-57-850 2.0mm

LASER

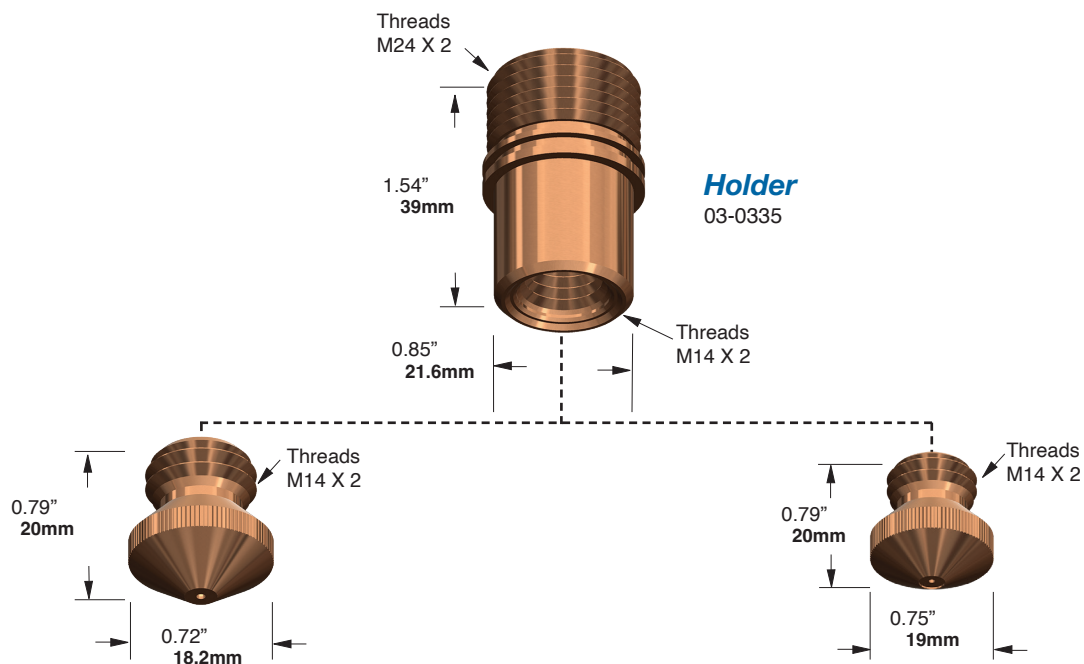
LASAG®



Nozzle Short
LASAG.SHORT 1.0mm



Nozzle Long
LASAG.LONG 1.0mm

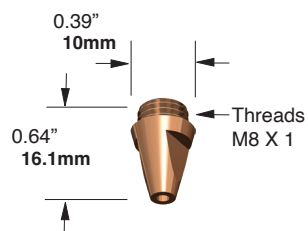


Nozzle High Pressure

01-2293	0.5mm
00-2293	1.2mm
03-2293	1.5mm
03-2293-1.8	1.8mm
02-2293	2.0mm
02-2293-2.5	2.5mm
02-2293-3.0	3.0mm

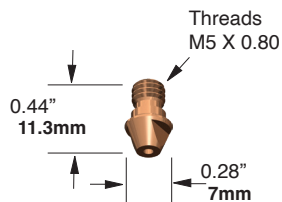
Nozzle Low Pressure

160-1	1.0mm
160-2	1.2mm
160-3	1.5mm



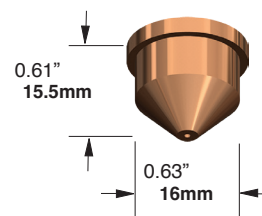
Nozzle

03-0916 2.0mm



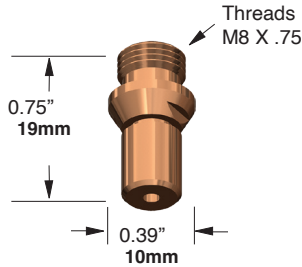
Nozzle

03-8358 1.5mm



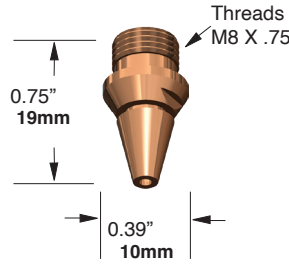
Nozzle

03-210T	1.0mm
03-8720	1.2mm
03-214T	1.4mm
03-215T	1.5mm
03-217T	1.7mm
03-8729	2.0mm
03-224T	2.4mm
03-225T	2.5mm
03-230T	3.0mm



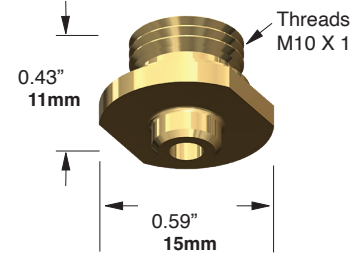
Nozzle

485.73.421 / 485.73.114C	1.5mm
485.73.422 / LW3.46.101A	2.0mm
485.73.423	2.5mm
485.73.424	3.0mm



Nozzle Tapered

485.73.115A	1.5mm
485.73.116A	2.0mm



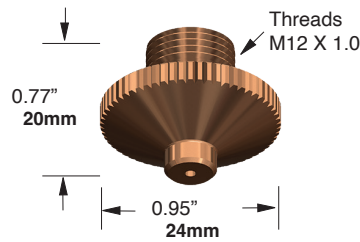
Nozzle

710.11.153	1.0mm
710.11.150	1.5mm
710.11.152	2.0mm
710.11.155	2.5mm
710.11.156	3.0mm



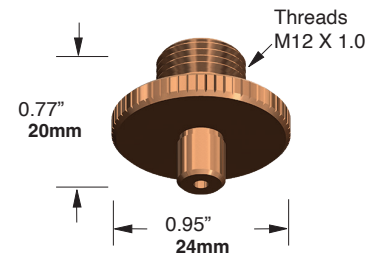
**Ceramic Nozzle
Holder Assy.**

LW6.59.130A



Nozzle

LW6.1E.111	1.5mm
LW6.1E.111-1.75	1.75mm
LW6.1E.112	2.0mm
LW6.1E.113	2.5mm
LW6.1E.114	3.0mm



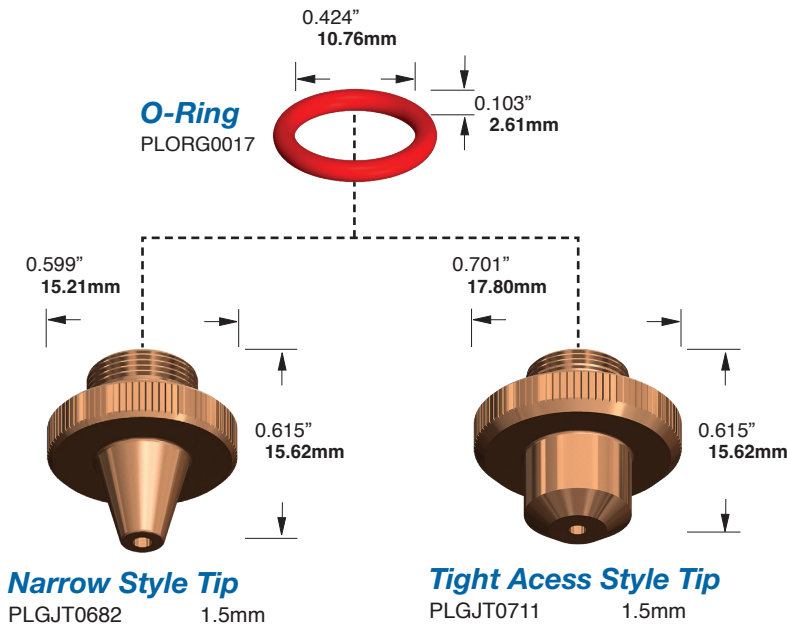
Nozzle

LW6.1G.600	1.5mm
LW6.1G.601	2.0mm
LW6.1G.602	2.5mm
LW6.1G.603	3.0mm

OPTICS FOR LASERDYNE® / PRIMA® LASERS

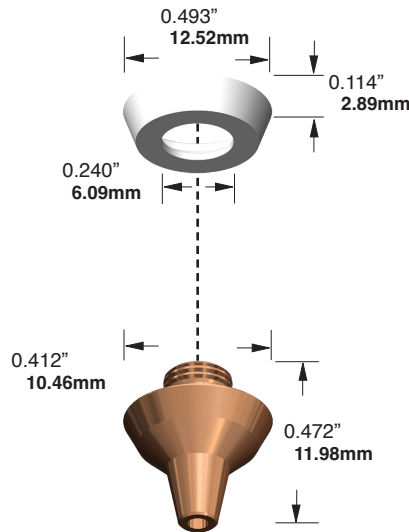
Focusing Lens

P/N	Lasertec P/N	Material	Diameter	Focal Length	Edge Thickness
834-319-001	ZC15250236	ZnSe	1.5"	2.5"	.236"
834-319-002	ZC15500236	ZnSe	1.5"	5.0"	.236"
834-319-003	ZC15750236	ZnSe	1.5"	7.5"	.236"
834-319-004	ZC15100236	ZnSe	1.5"	1.0"	.236"
834-319-009	ZC15375236	ZnSe	1.5"	3.75"	.236"
834-319-010	ZM15375236	ZnSe	1.5"	3.75"	.236"
834-319-011	ZC15500300	ZnSe	1.5"	5.0"	.300"
834-319-012	ZC15750300	ZnSe	1.5"	7.5"	.300"

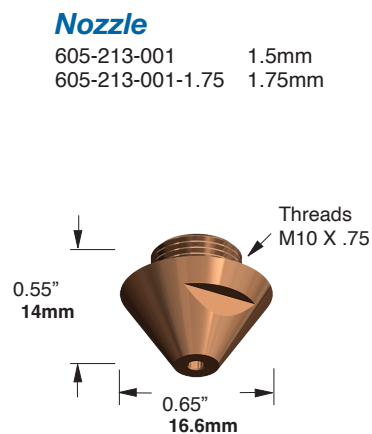
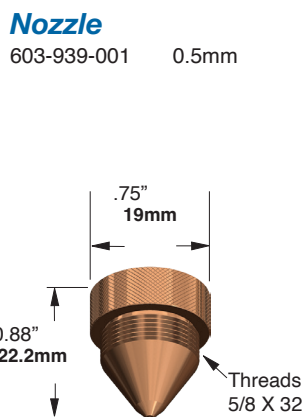
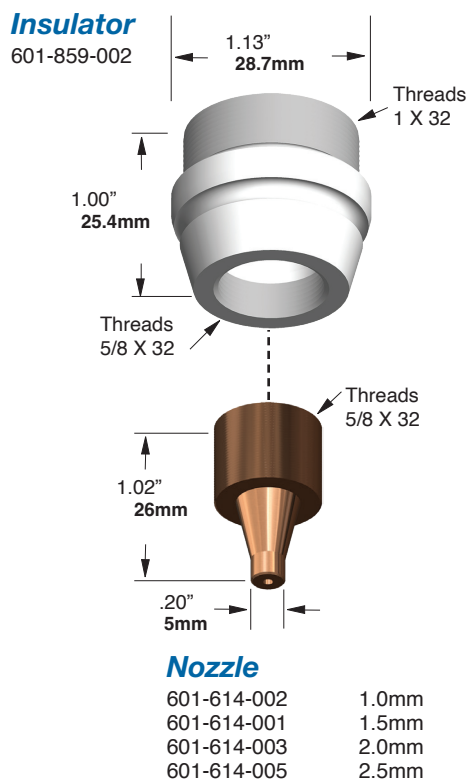
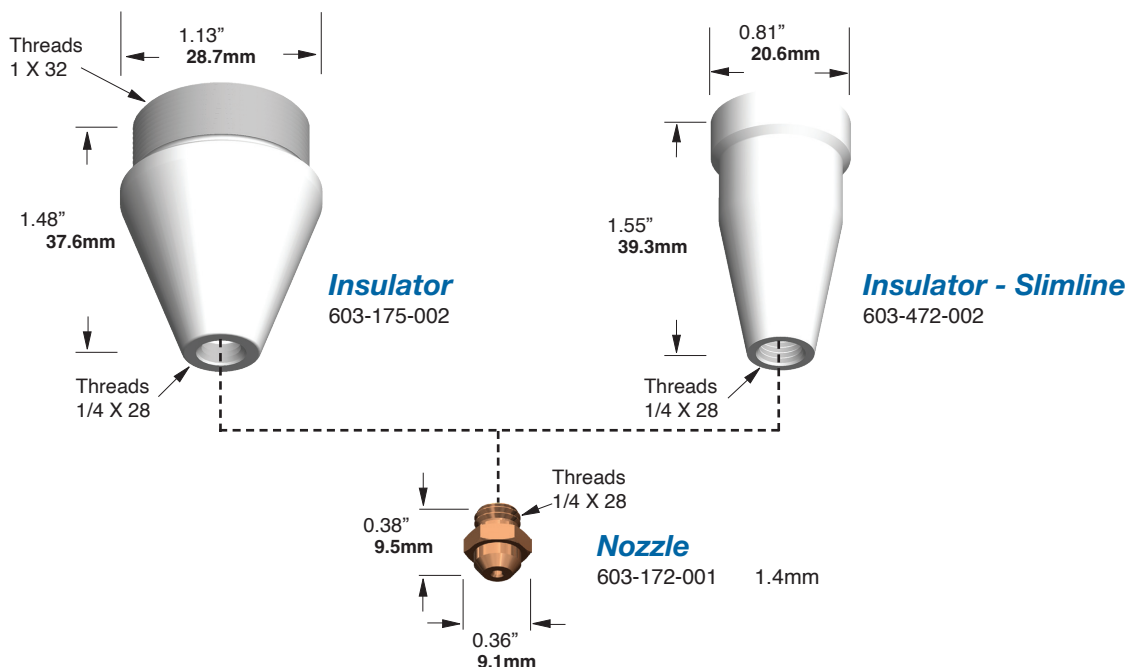


Tip Insulator
PLISR0033

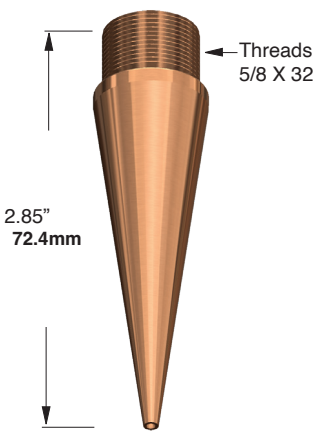
TRA0417 Style Tip
PLGJT0172 1.5mm



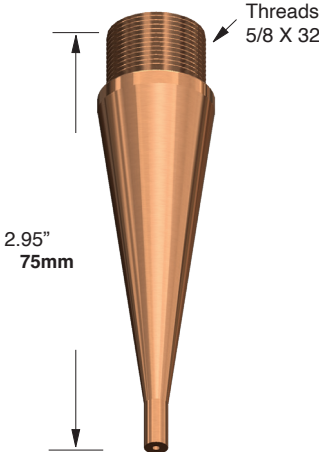
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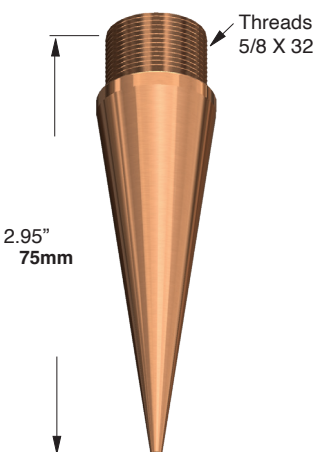
LUMONICS



Nozzle
603-271-003 1.5mm
603-271-005



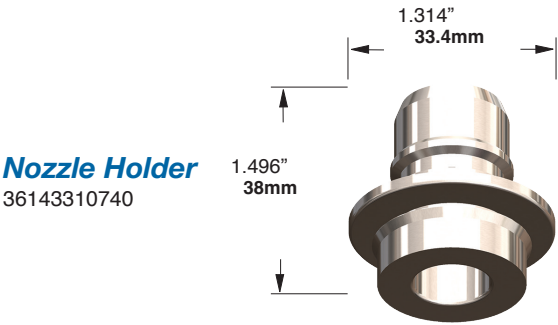
Nozzle
603-271-002 1.2mm
603-271-002-1.5S 1.5mm
603-271-002-2.0 2.0mm



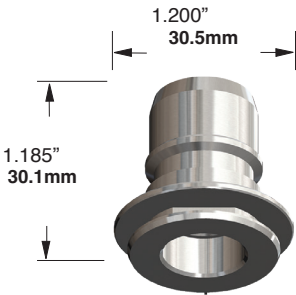
Nozzle
603-271-001 1.2mm
603-271-001-2.8 2.8mm

LASER

MAZAK®

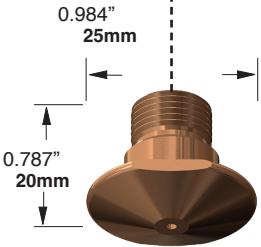


Nozzle Holder
36143310740



**Nozzle Holder
Hyper Gear**
36143304420

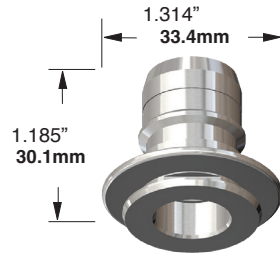
Nozzle
46143304470 1.2mm
46143304450 1.5mm
46143304460 2.0mm
46143304480 2.5mm
46143304490 3.0mm
46143304500 3.5mm
46143304510 4.0mm



Double Nozzle
46143306450 1.5mm
46143306460 2.0mm
46143306480 2.5mm
46143306490 3.0mm
46143306500 3.5mm
46143306510 4.0mm

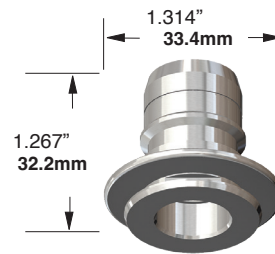
Nozzle Holder

36143310522



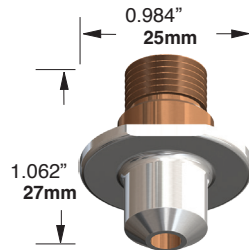
Nozzle Holder

36143310523



Nozzle Pencil

36143312220	1.2mm
36143312230	1.5mm
36143312240	2.0mm
36143312250	2.5mm
36143312260	3.0mm
36143312270	3.5mm
36143312280	4.0mm

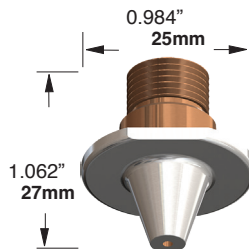


Nozzle Double Pencil

36143312300	1.5mm	06283301050	4.5mm/inner 1.2mm
36143312310	1.8mm	06283301200	5.0mm/inner 1.2mm
36143312311	2.0mm	06283301210	5.5mm/inner 1.2mm
36143312320	2.5mm	06283301840	5.5mm/inner 2.0mm
36143312330	3.0mm	06283302110	7.0mm/inner 1.8mm
36143312340	3.5mm	Q6143300020	SUS 3.5mm
36143312350	4.0mm	Q6143300030	SUS 4.0mm
		Q6143300040	SUS 4.5mm

Nozzle Slim

46143310332	1.0mm
46143310341	1.2mm
46143310351	1.5mm
46143310361	2.0mm
46143310371	2.5mm
46143310381	3.0mm
46143310391	3.5mm
46143310401	4.0mm

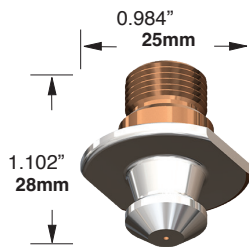


Nozzle Double Slim

36143311500	1.5mm
36143311510	2.0mm
36143311520	2.5mm
36143311530	3.0mm
36143311535	3.5mm
36143312390	4.0mm

Nozzle Pencil

06283301790	1.0mm HP
06283301800	1.2mm HP
06283301810	1.5mm HP

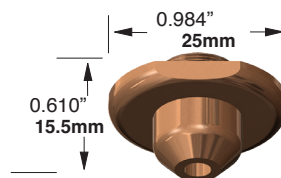


Nozzle Double Pencil

0628331820	1.5mm HP
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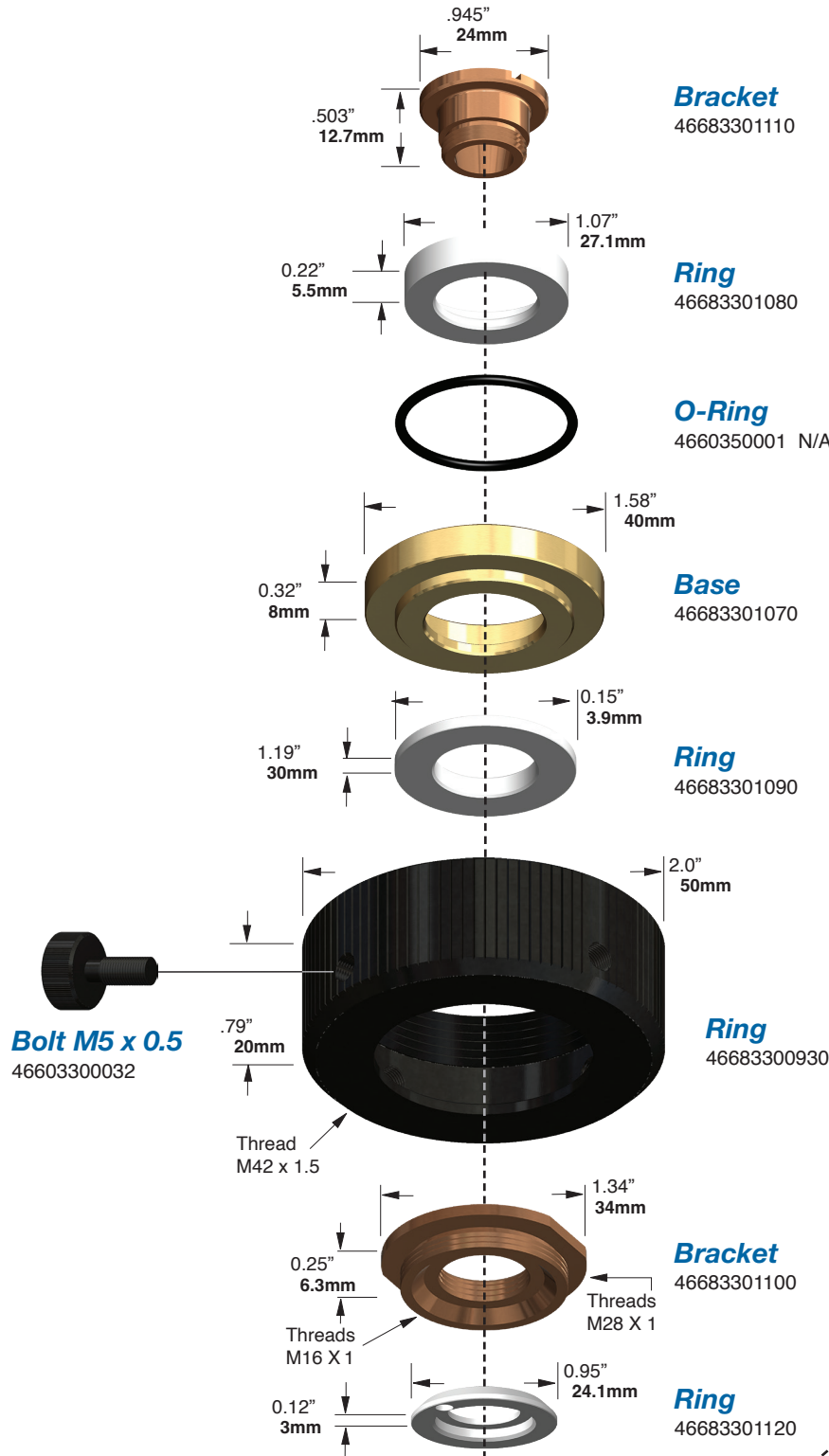
Nozzle Double Smooth

Q6283300030	6.0mm
Q6283300020	7.5mm
Q6283300010	9.5mm



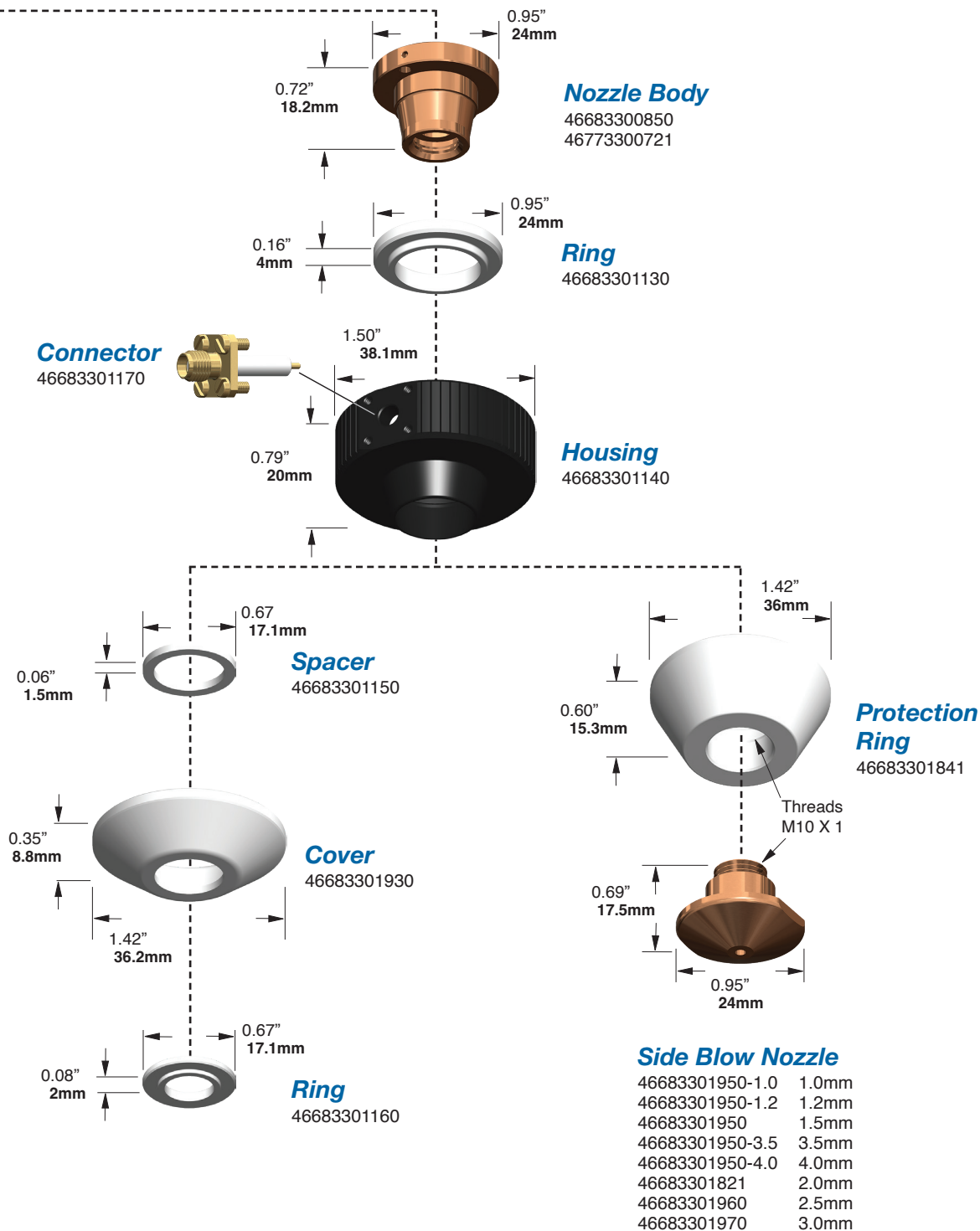
SUPER CHARGE X510

LASER



Continued on next page

SUPER CHARGE X510



LASER

TURBO 10KW

LASER

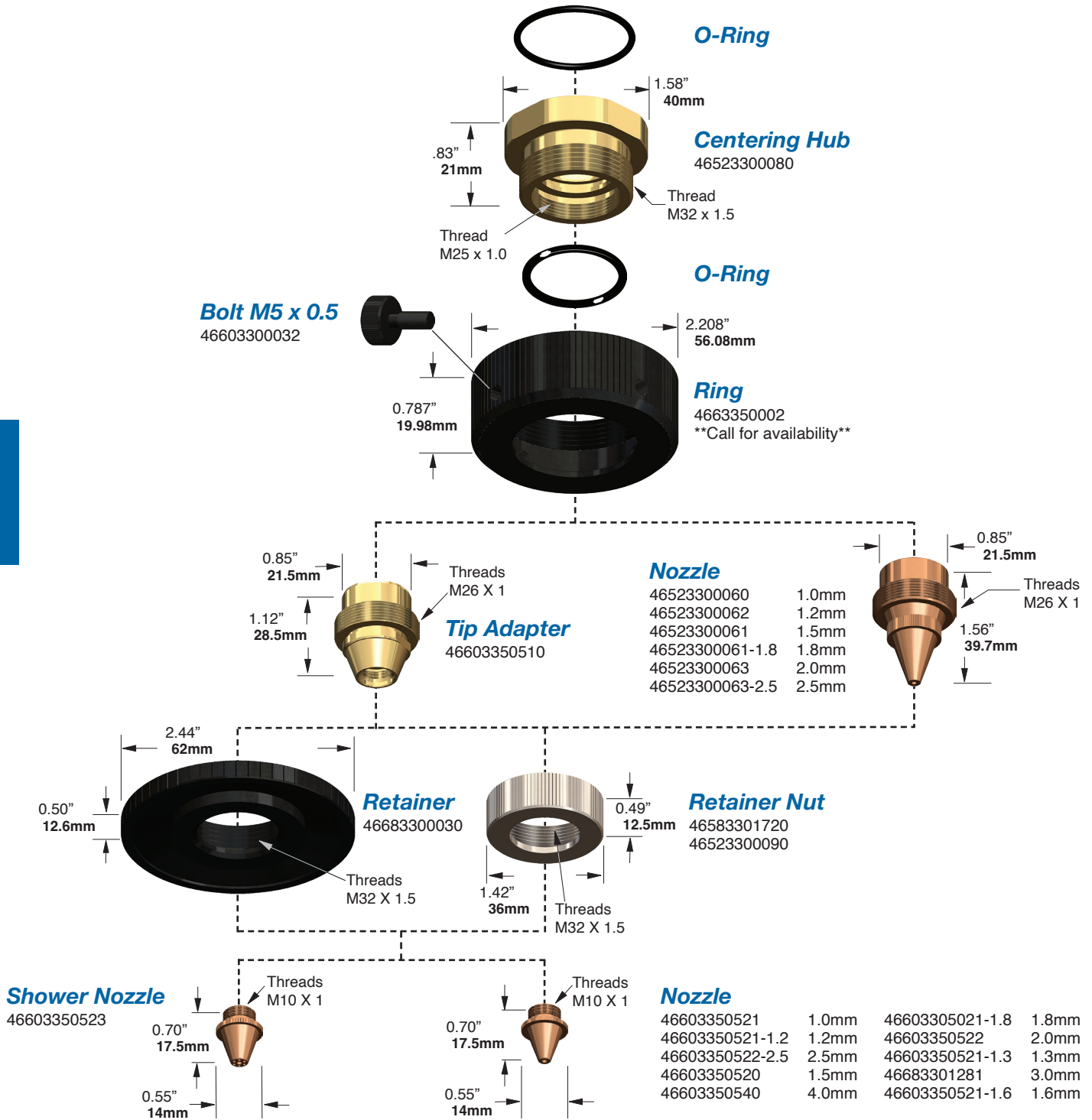
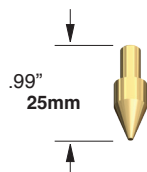


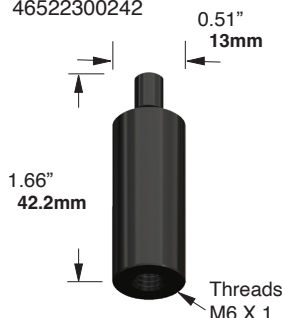
Table Pin

46600030013



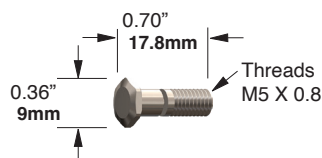
Stylus Pin

46522300242



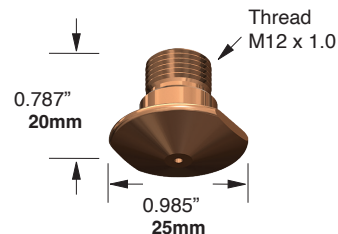
Shear Pin

46654801053

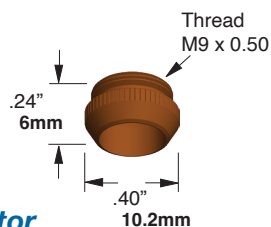


Nozzle

46143304450	1.5	46143304480	2.5
46143304460	2.0	46143304490	3.0
46143304470	1.2		



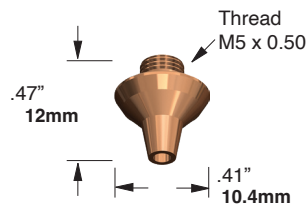
HNZ



Insulator

46713300320

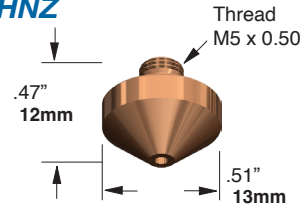
HNZ



Tip, Cu - 3D

46713300280	2.0mm
46713300410	1.2mm
46713300290	1.5mm
46713300430	3.0mm

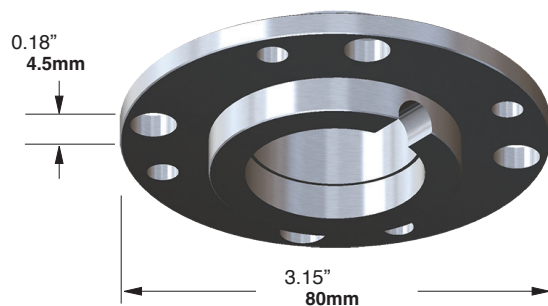
HNZ



Tip, Cu - 2D

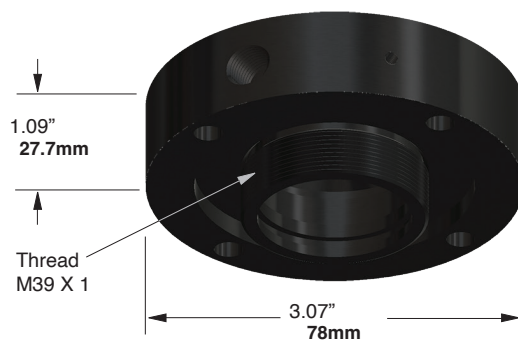
46713300300	2.0mm
46713300310	1.5mm
46713300440	3.0mm

LASER



Aluminum Base

36623300700

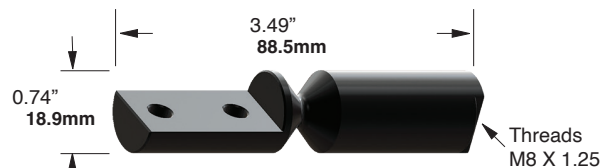


Base

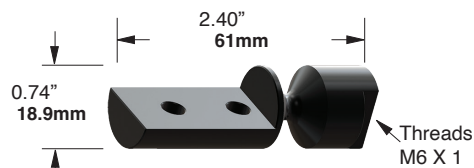
36564800714
36564801270

Not Shown

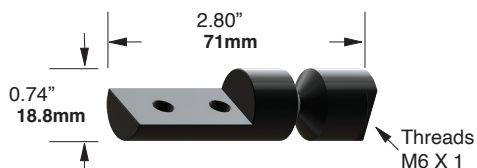
46683301980 Cable
56743300500-Rebuild Sensor Rebuild HNZ

**Break-Away Bar**

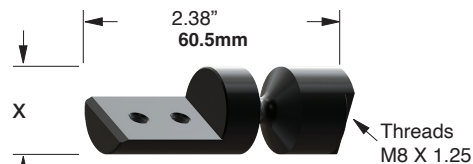
36602300230 1.5KW
36602300550 2.0KW

**Break-Away Bar**

36572301012 1.0KW
46522300241

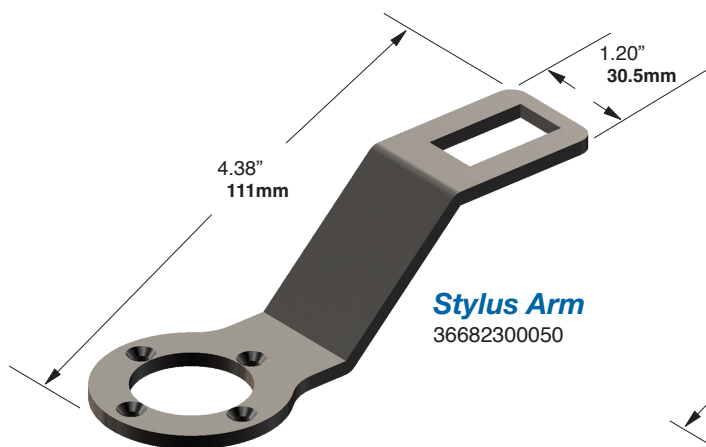
**Break-Away Bar**

46572301013

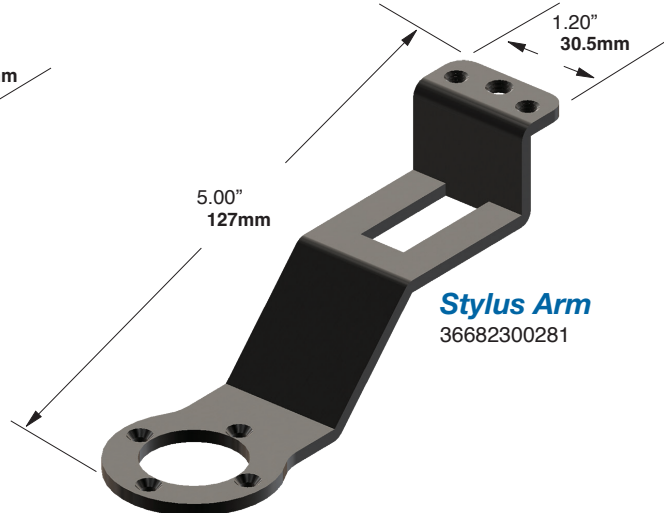
**Break-Away Bar**

- X Dimension
36682300280 .79 19.9mm
36673300280 .73 18.6mm

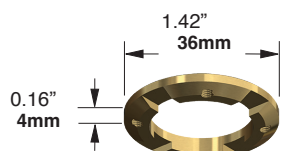
LASER

**Stylus Arm**

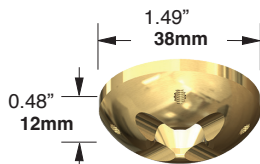
36682300050

**Stylus Arm**

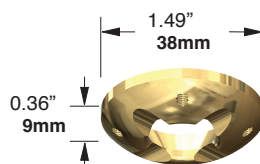
36682300281

**Stylus Foot 1KW**

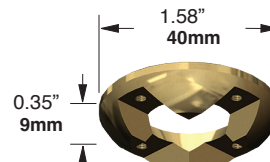
46512300520

**Stylus Foot 1.5KW**

46572301041 Brass
46572301042 Brass
46572301042S Steel
46572301041T Teflon™

**Stylus Foot 2.0KW**

46602350070 Brass
46602350080 Brass
46602350080S Steel
46602350080X Teflon™

**Stylus Foot**

46612350280 Copper
46612350280S Steel
46612350270 Brass

OPTICS FOR MAZAK® LASERS

Focusing Lenses

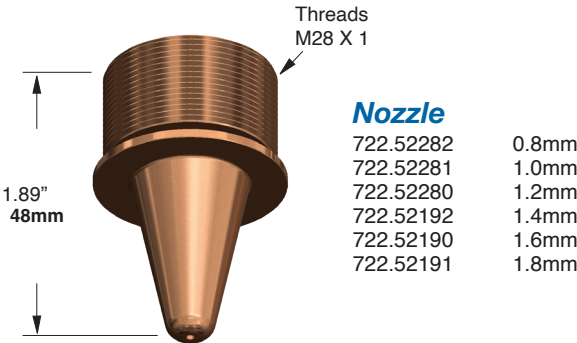
P/N	Lasertec P/N	Material	Diameter	Focal Length	Edge Thickness
Z50MB000130	ZC15500118	ZnSe	1.5"	5.0"	.118
Z50MB000160	ZC15500236	ZnSe	1.5"	5.0"	.236"
Z50MB000400	ZC15500310	ZnSe	1.5"	5.0"	.310"
Z50ZZ005150	ZC20500120	ZnSe	2.0"	5.0"	.120"
Z50ZZ005160	ZC20500310	ZnSe	2.0"	5.0"	.310"
Z50ZZ005190	ZC20750197	ZnSe	2.0"	7.5"	.197"
Z50ZZ005200	ZC20750380M	ZnSe	2.0"	7.5"	.380"

Protective Windows

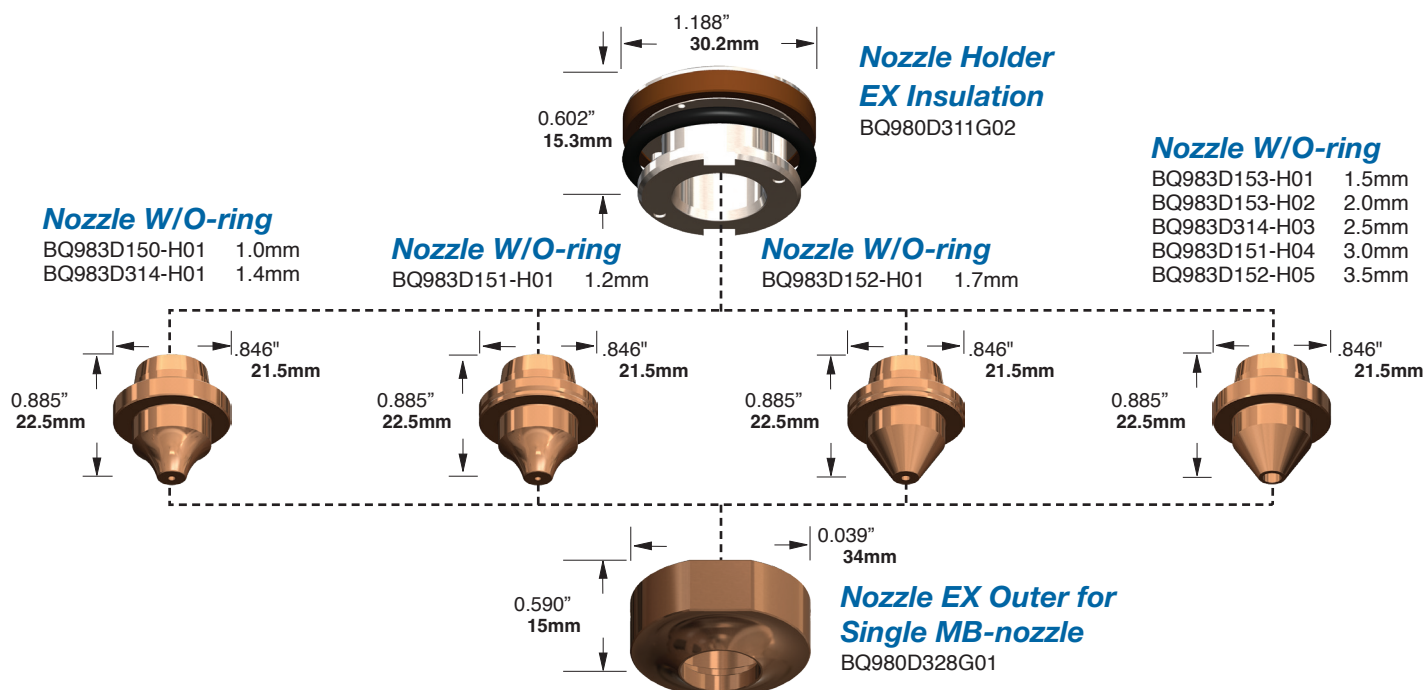
P/N	Material	Diameter	Edge Thickness
W495	FS	42mm	9mm

LASER

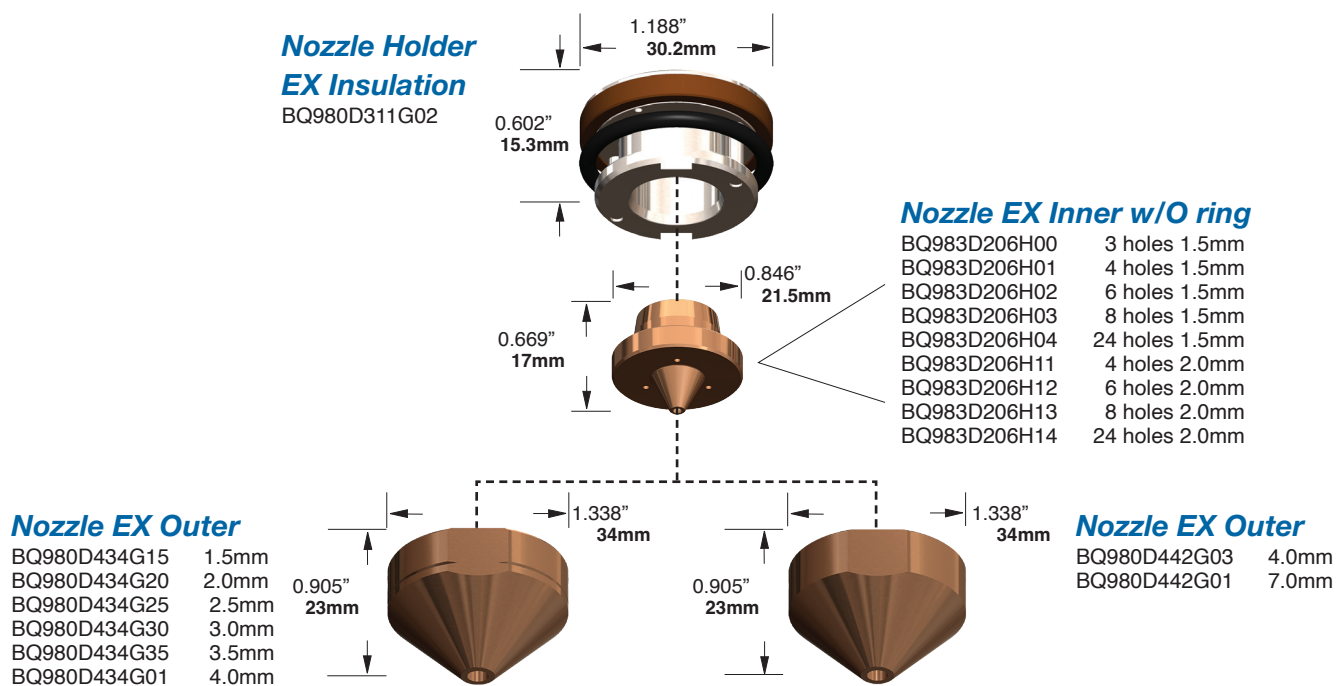
MESSER



LASER

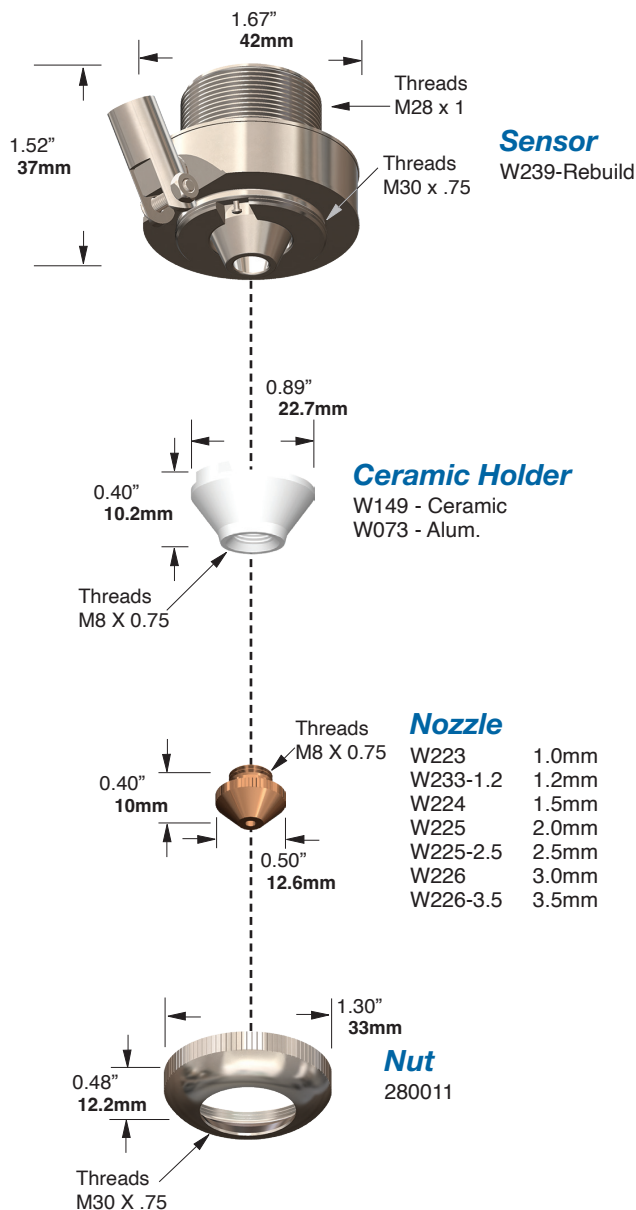


LASER



LASER

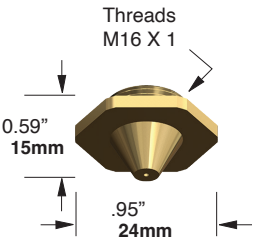




Contact Head

Nozzle

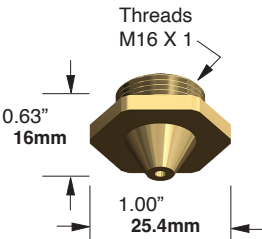
W001-1.0A	1.0mm
W001-A	1.5mm
W002-A	2.0mm
W002-2.5A	2.5mm
W003-A	3.0mm



Contact Head

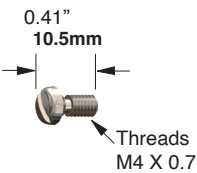
Nozzle

W001-1.0	1.0mm
W001	1.5mm
W002	2.0mm
W002-2.5	2.5mm
W003	3.0mm



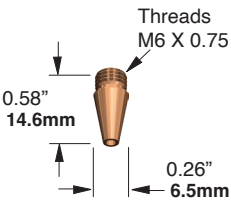
Screw

W104



Nozzle

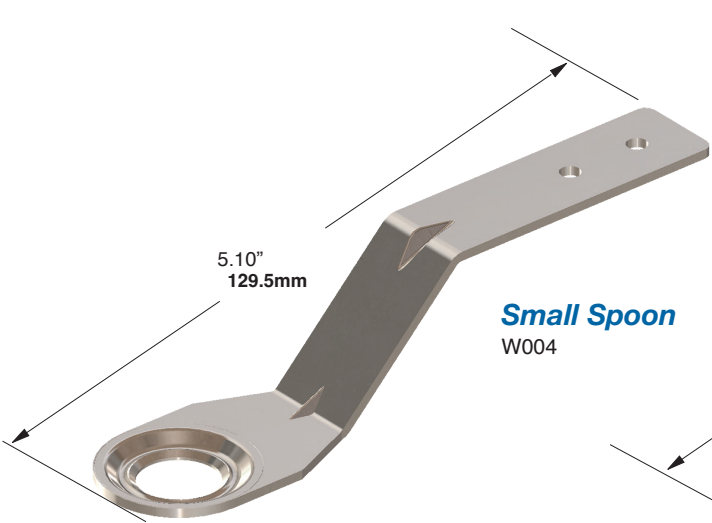
W400



LASER

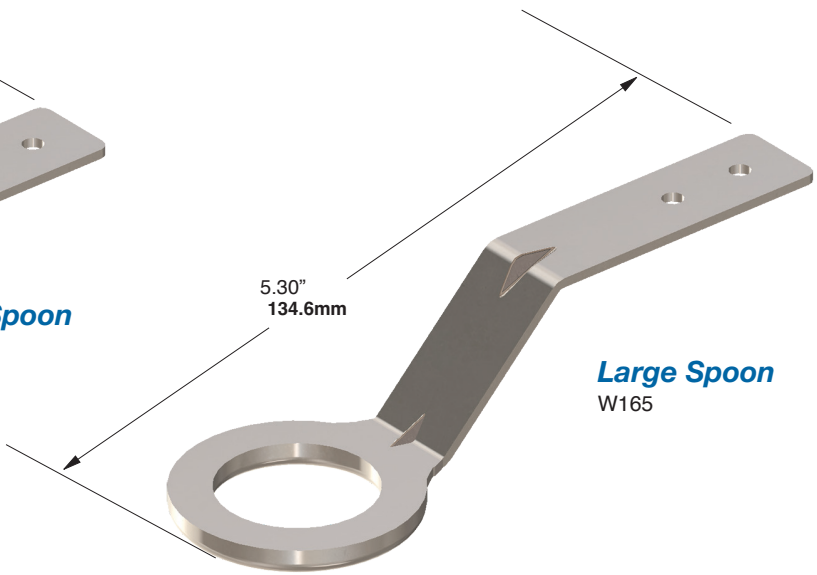
Small Spoon

W004



Large Spoon

W165



OPTICS FOR MITSUBISHI® LASERS

Focusing Lenses

P/N	Lasertec P/N	Material	Diameter	Focal Length	Edge Thick-ness
W006	ZC15350118	ZnSe	1.5"	3.5"	.118"
W015	ZM20750380	ZnSe	2.0"	7.5"	.380"
W018	ZC15750315	ZnSe	1.5"	7.5"	.315"
W500	ZC15500310	ZnSe	1.5"	5.0"	.310"
W505	ZC20500310	ZnSe	2.0"	5.0"	.310"
W510	ZC20750310	ZnSe	2.0"	7.5"	.310"
W813		ZnSe	1.5"	15000 mm	Collimator

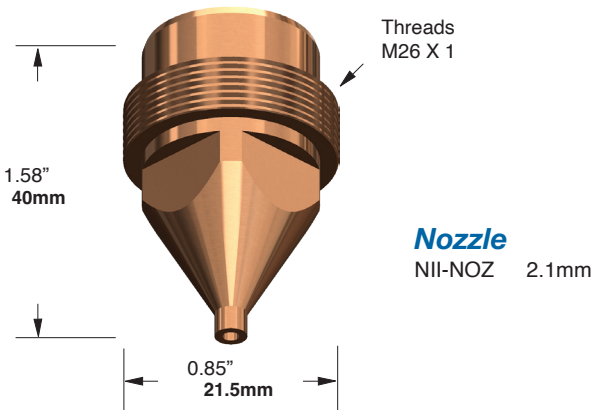
Protective Windows

P/N	Material	Diameter	Edge Thickness
632336-117	FS	25.4mm	5mm
633744-137	FS	50mm	8mm

LASER

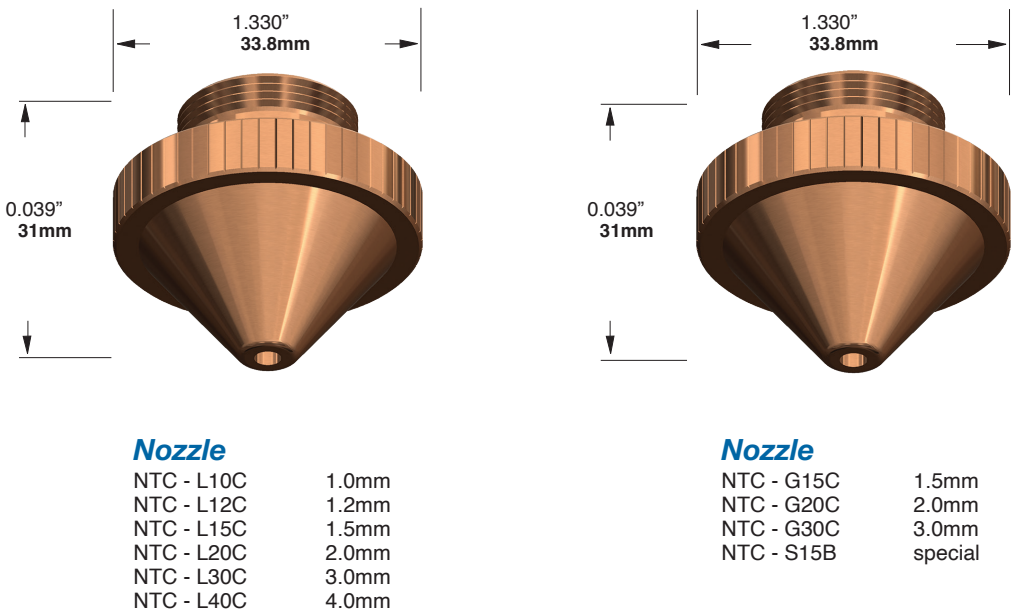
NIIGATA® / NTC® / BEYELER®

NIIGATA®

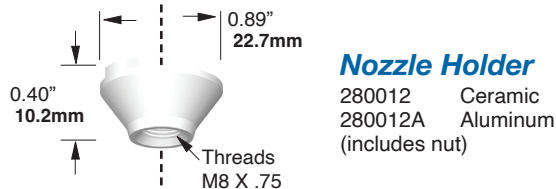
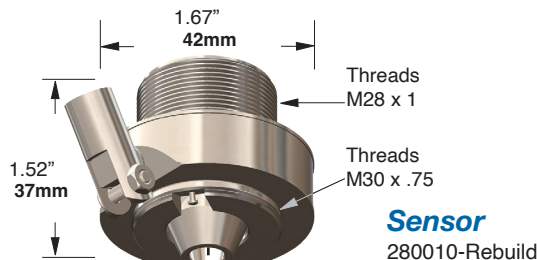


LASER

NTC® / BEYELER®

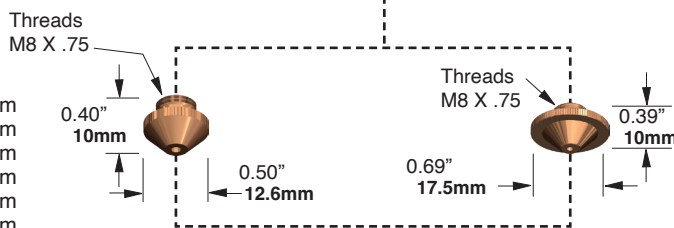


SENSOR SYSTEM 2.5"Z/J



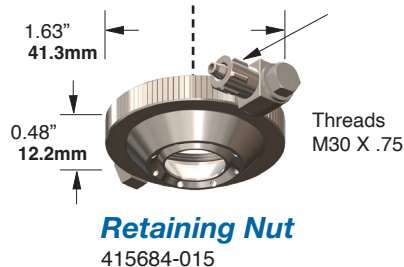
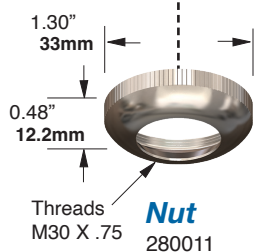
Nozzle

280013 / P0492-441-00008	0.8mm
280014 / P0492-442-00010	1.0mm
280015 / P0492-443-00012	1.2mm
280015-1.3	1.3mm
280016 / P0492-444-00015	1.5mm
280937 / P0492-445-00020	2.0mm
280937-2.5	2.5mm
280927	3.0mm

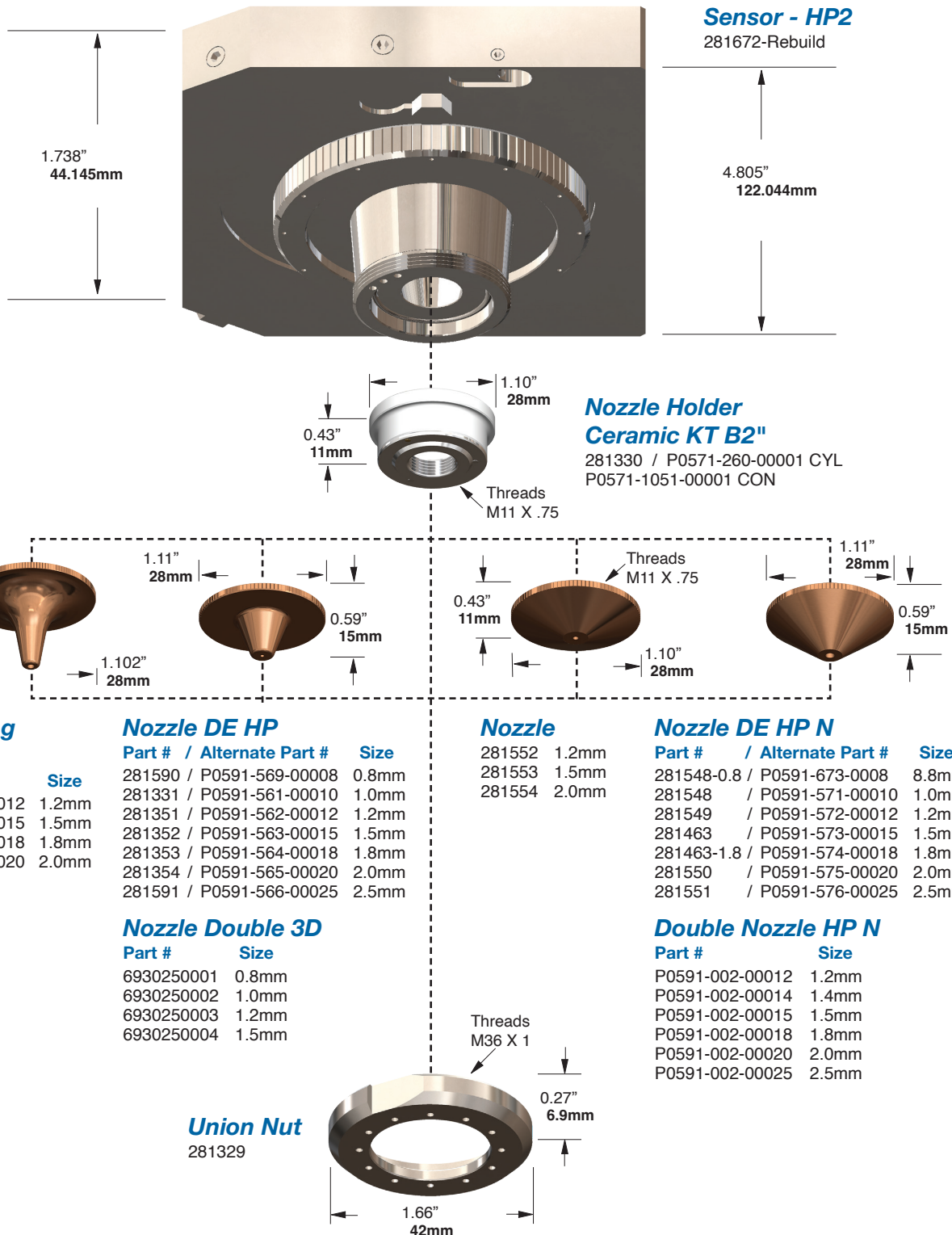


Nozzle

281024	1.5mm
281024-1.8	1.8mm



LASER



SENSOR SYSTEM 5"DXN

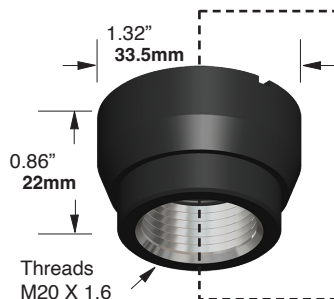
**5" DX
Sensor Head**
280033-Rebuild

**5" DXN
Sensor Head**
280948-Rebuild

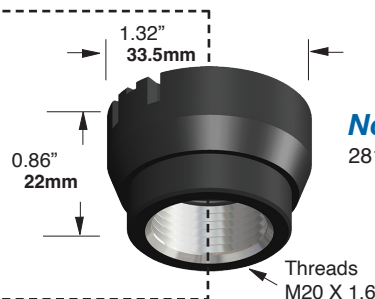
**M1.5/DZ
Sensor Head**
281145-Rebuild /
P0380-110-00002-Rebuild



Nozzle Holder
280565
280831 (5"DX)

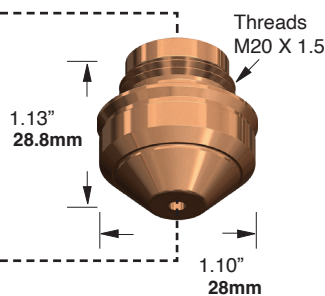
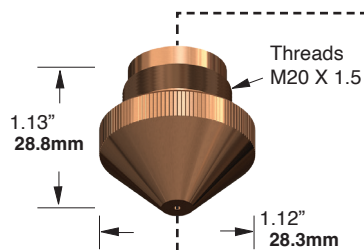


Nozzle Holder
281146 / P0380-211-00001



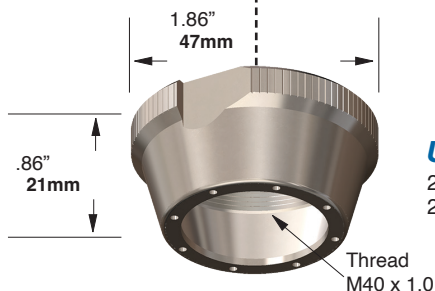
**Nozzle
Non-Contact**

280029	1.0mm
280030	1.2mm
280028	1.5mm
281384	1.7mm
280027	2.0mm
280026	2.5mm
280025-3.0	3.0mm
280025-3.5	3.5mm
281029L lav	1.0mm
281029L-1.7 lav	1.7mm
281029L-1.8 lav	1.8mm



Nozzle M1.5 DZ,DL,H

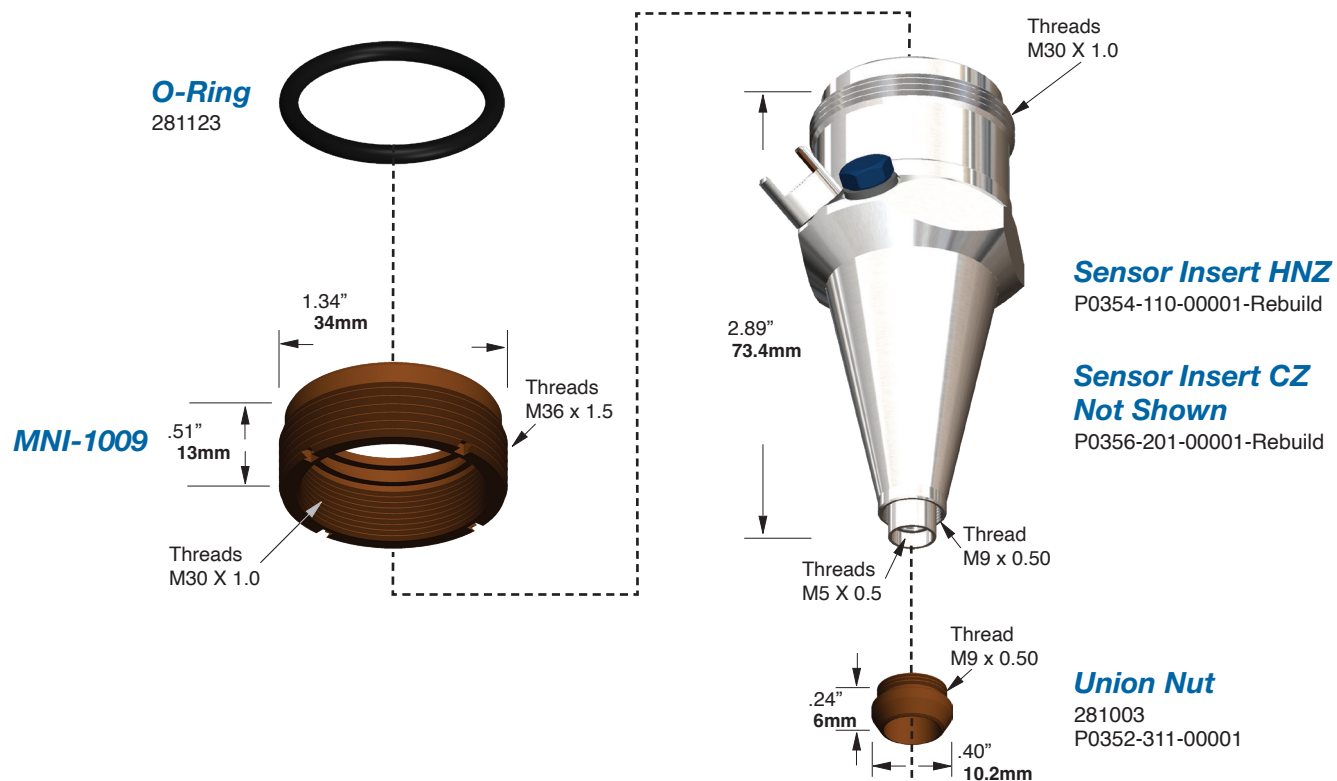
281253 / P0380-251-00010	1.0mm
281254 / P0380-252-00012	1.2mm
281255 / P0380-253-00015	1.5mm
281270 / P0380-254-00020	2.0mm
281271 / P0380-255-00025	2.5mm
281271-3.0	3.0mm
281271-4.0	4.0mm



UnionNut
280566
280025 (5"DX)

LASER

M1.5 HNZ / CZ

**Nozzle Cu - 3D**

P0352-381-00010	1.0mm
P0352-382-00012	1.2mm
P0352-383-00015	1.5mm
P0352-384-00020	2.0mm
P0352-385-00025	2.5mm
P0352-388-00030	3.0mm

Nozzle - M1.5" C/H KK

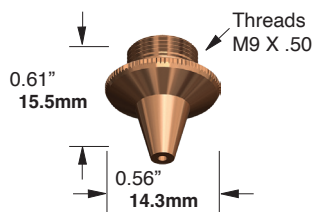
281006 / P0352-333-00010	1.0mm
281030 / P0352-334-00012	1.2mm
281031 / P0352-335-00015	1.5mm
280898 / P0352-336-00018	1.8mm
P0352-336-0002	2.0mm

Nozzle - M1.5" C/H ZK

281005 / P0352-323-00010	1.0mm
281034 / P0352-324-00012	1.2mm
281013 / P0352-325-00015	1.5mm
280899 / P0352-326-00018	1.8mm
P0352-327-00020	2.0mm
P0352-328-00025	2.5mm

Nozzle - M1.5" C/H ZL

281010 / P0352-352-00008	0.8mm
281035 / P0352-354-00012	1.2mm
281036 / P0352-355-00015	1.5mm
P0352-353-00018	1.8mm

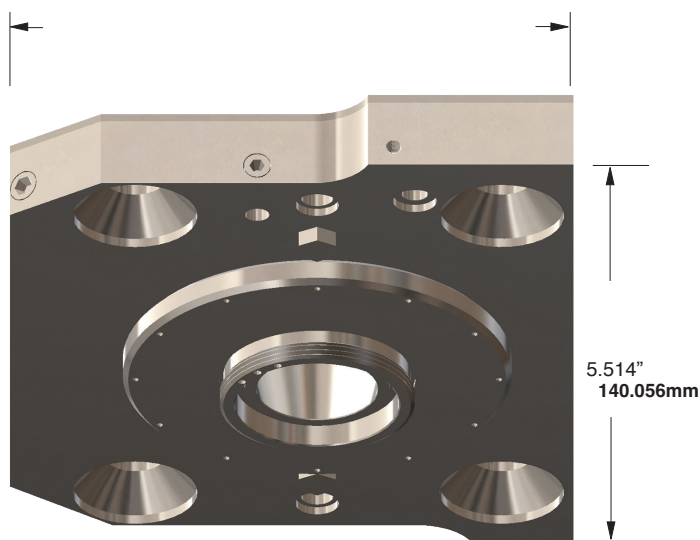


Nozzle

281813 / P0589-424-0008	0.8mm
281789 / P0589-426-00010	1.0mm
281561 / P0589-425-00012	1.2mm
281814 / P0589-427-00015	1.5mm
281814-2.0 / P089-426-00020	2.0mm

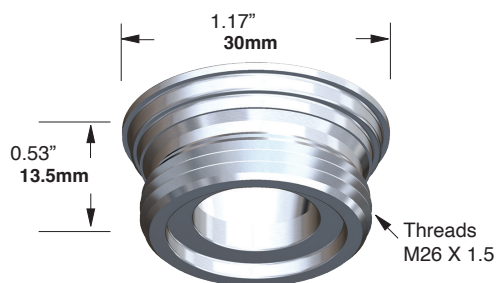
Parts Available but Not Shown

149884 / D5589-801-05000	Sensor Cable
149951	Cable MXC
562311	Cable BNC
563983	Cable BNC
P0589-400-00001-Rebuild	Sensor Insert MCX
778548-Rebuild	
P0589-800-00001-Rebuild	Sensor Insert BNC
562313-Rebuild	



Sensor - HP2MZ

P0594-820-00001-Rebuild

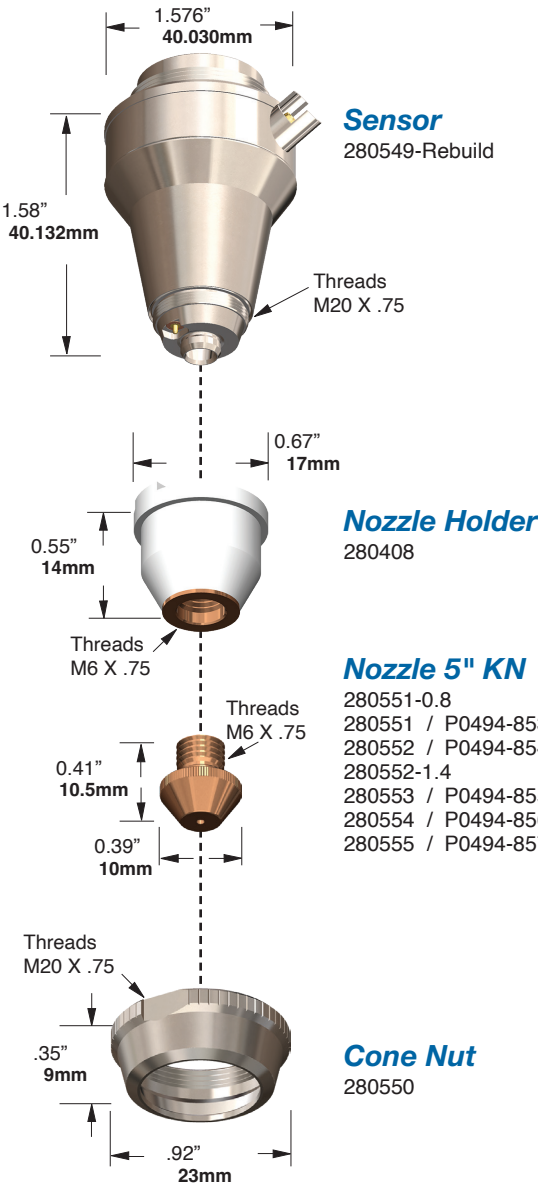


Nozzle Holder Aluminum

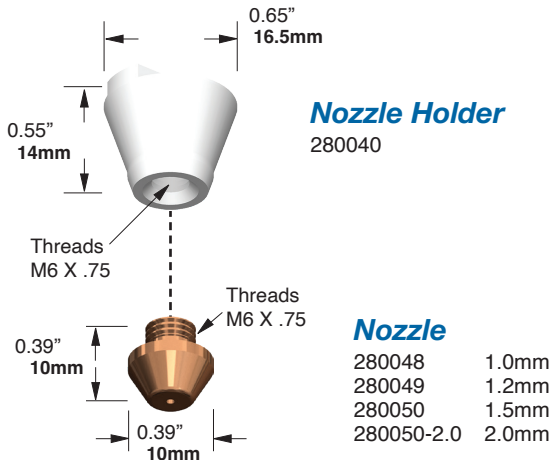
P0594-860-00001

LASER

SENSOR SYSTEM 5"KN



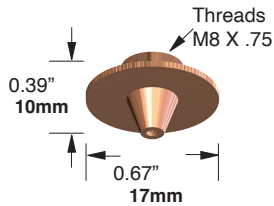
SENSOR SYSTEM 5"K



Parts Available but Not Shown

280042-Rebuild	Sensor
280041	Cone Nut

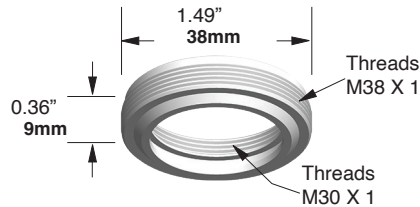
SCL



Nozzle

281298 / P0492-482-00012	1.2mm
281009 / P0492-483-00015	1.5mm
281293 / P0492-484-00020	2.0mm

KN, DZ, DXN, DX



Insulator

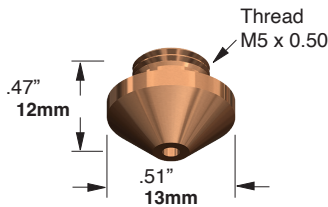
280064

YK52



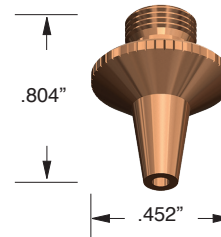
Nozzle

281243	1.0mm
281242	1.5mm



Tip, Cu - 2D

P0352-386-00015	1.8mm
P0352-387-00020	2.0mm
P0352-392-00030	3.0mm



Nozzle

P0787-483-00015-1.2	1.2mm
P0787-483-00015	1.5mm
P0787-483-00015-1.75	1.75mm
P0787-483-00015-2.0	2.0mm

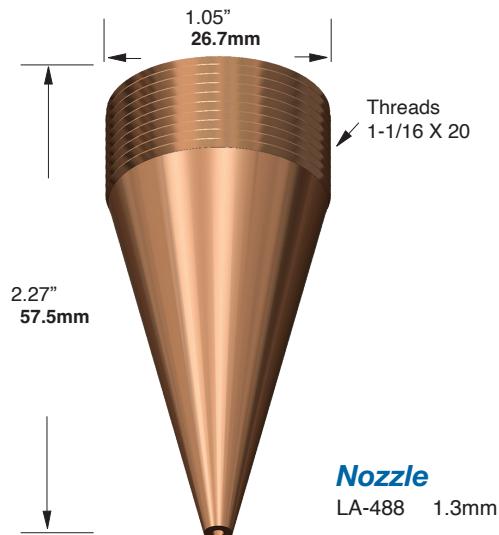
LASER

OPTICS FOR PRECITEC® LASERS

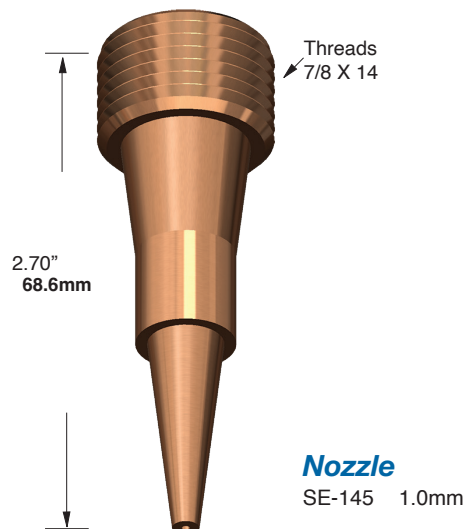
Protective Windows

P/N	Material	Diameter	Edge Thickness
284.0402	FS	50mm	3.18mm
P0595-58601	FS	37mm	7mm

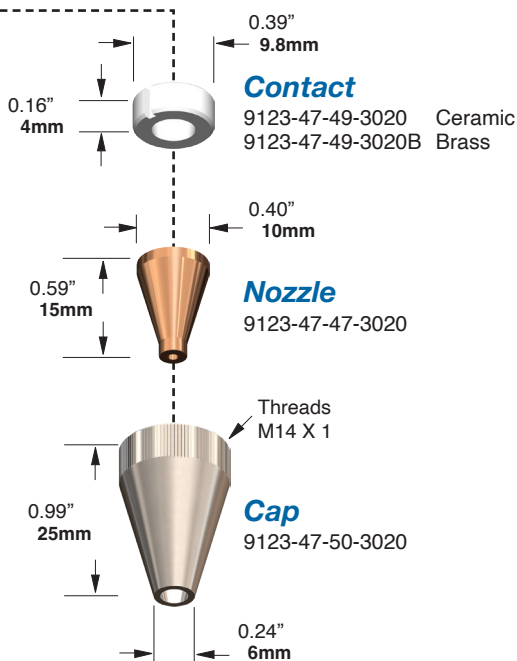
RAYTHEON®



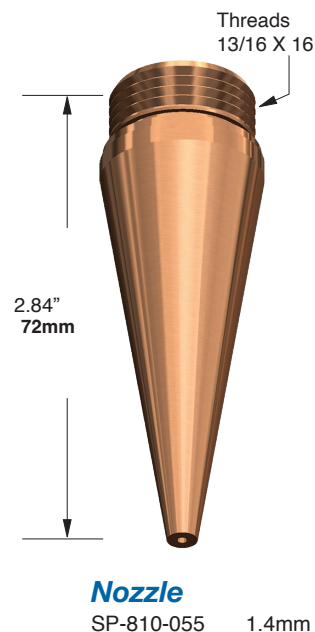
ROFIN SINAR®

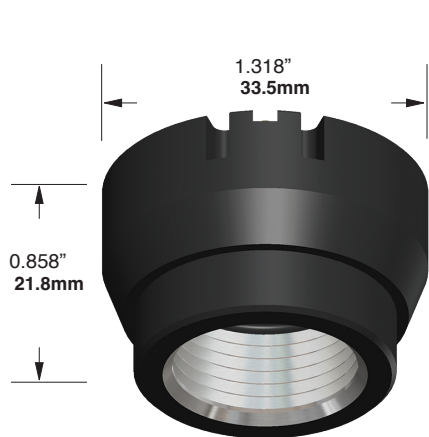


SHIBUYA®



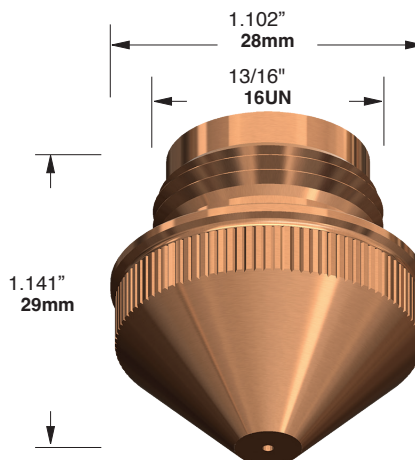
SPECTRA PHYSICS®





PT Nozzle Holder ITM

P0380-211-00001 1.5" DZ



SA Nozzle

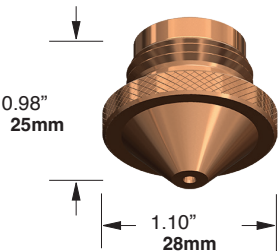
146331A4	1.0mm
146330A4	1.25mm
146329A4	1.5mm
146328A4	1.75mm
146327A4	2.0mm
146326A4	2.25mm
146325A4	2.5mm
146324A4	2.75mm
146323A4	3.0mm

LASER

OPTICS FOR SALVAGNINI® LASERS

Protective Windows

P/N	Material	Diameter	Edge Thickness
632755-117	FS	32mm	6.35mm



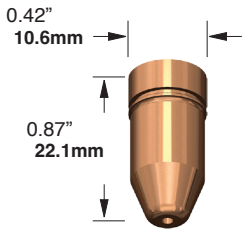
Nozzle Standard

7945470	1.0mm
5241982	1.2mm
7945434	1.5mm
7945452	2.0mm
7945517	2.5mm

Nozzle High Pressure

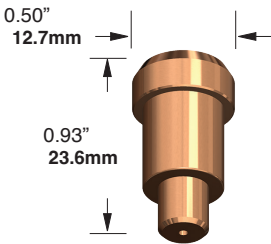
5241862	1.5mm
5241863	1.0mm
5241855	2.0mm
5241856	2.5mm
5241857	3.0mm
5241877	3.5mm
5241878	4.0mm

LASER



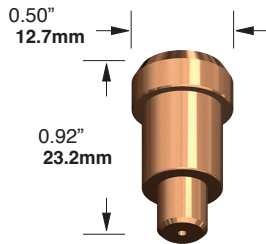
Nozzle

1001019-000	1.0mm
1001020-000	2.0mm



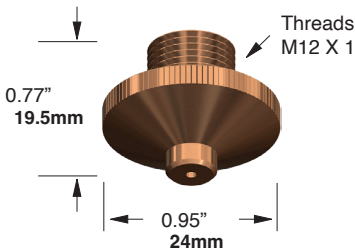
Nozzle

123409-100	2.0mm H.P.
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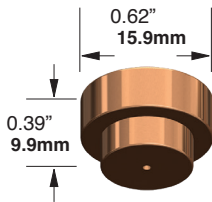
Nozzle

123409-000	1.2mm L.P.
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Nozzle

1001233-150	1.5mm
1001233-200	2.0mm
1001233-250	2.5mm
1001233-300	3.0mm
1001233-350	3.5mm



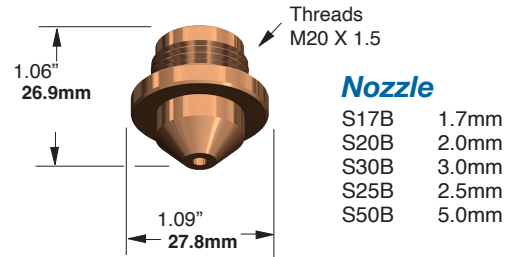
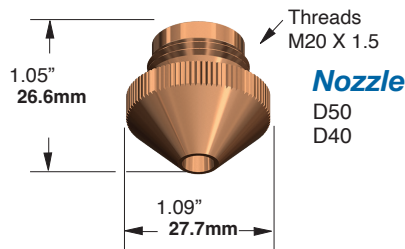
Nozzle

106054-000	1.0mm L.P.
106054-000-1.5	1.5mm L.P.
106054-000-2.0	2.0mm L.P.
106054-100	2.0mm L.P.

OPTICS FOR STRIPPIT® / LVD® LASERS

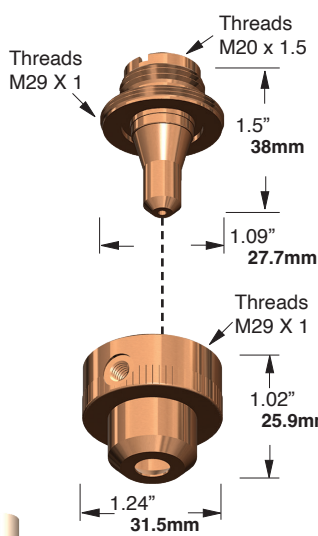
Focusing Lens

P/N	Lasertec P/N	Material	Diameter	Focal Length	Edge Thickness
0018827-000	ZM15500291	ZnSe	1.5"	5.0"	.291"
0018827-100	ZC15500236	ZnSe	1.5"	5.0"	.236"
0800952-000	ZC15350118	ZnSe	1.5"	3.5"	.118"
1000746-100	ZC15750300	ZnSe	1.5"	7.5"	.300"
1001151-000	ZM15500350	ZnSe	1.5"	5.0"	.350"
1001152-000	ZM15750350	ZnSe	1.5"	7.5"	.350"
29100023	ZM15500291	ZnSe	1.5"	5.0"	.291"
29100030	ZM15750291	ZnSe	1.5"	7.5"	.291"
29100055	ZM20750380	ZnSe	2.0"	7.5"	.380"
29100061	ZM20100380	ZnSe	2.0"	10.0"	.380"
29100062	ZM20125380	ZnSe	2.0"	12.5"	.380"
29100115	ZM18500354	ZnSe	1.8"	5.0"	.354"
29100116	ZM18750354	ZnSe	1.8"	5.0"	.354"



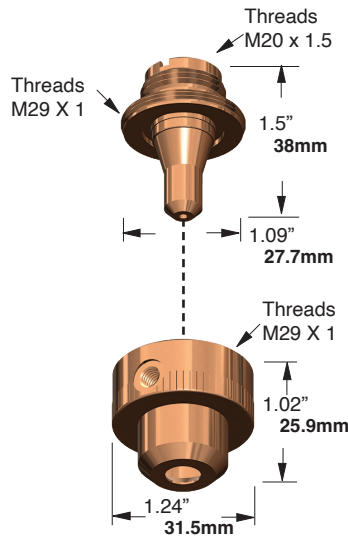
Nozzle, Inner

C20D-2
C20E-2-1.5
C20E-2 2.0mm



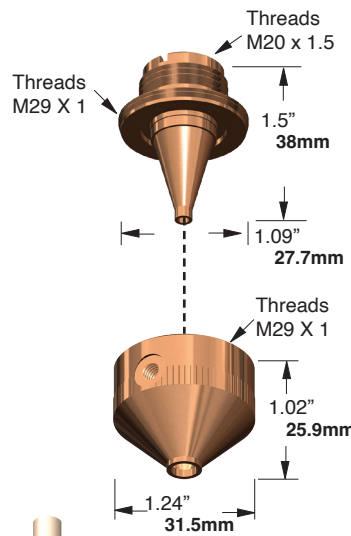
Nozzle, Inner

C22D-2



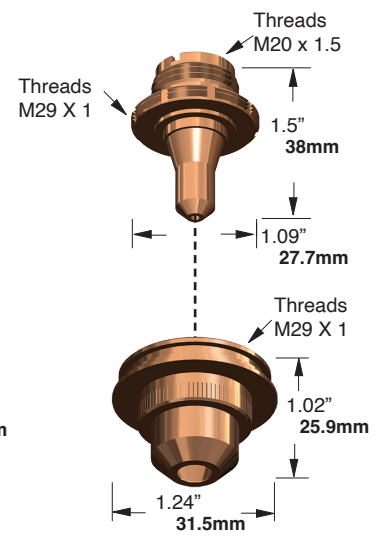
Nozzle, Inner

C25C-2



Nozzle, Inner

C30D-1
C30E-1



Nozzle, Outer

C20D-1
C20E-1

Nozzle, Outer

C22D-1

Nozzle, Outer

C25C-1

Nozzle, Outer

C30D-2
C30E-2

Nozzle Assy.

C20D

Nozzle Assy.

C20E

Nozzle Assy.

C22D

Nozzle Assy.

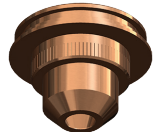
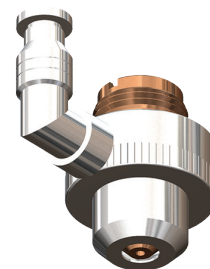
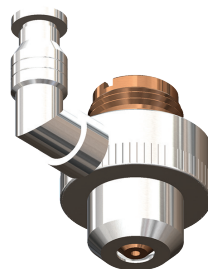
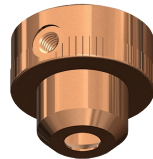
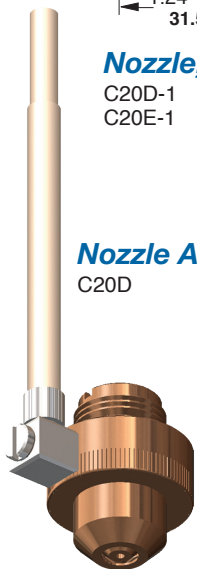
C25C

Nozzle Assy.

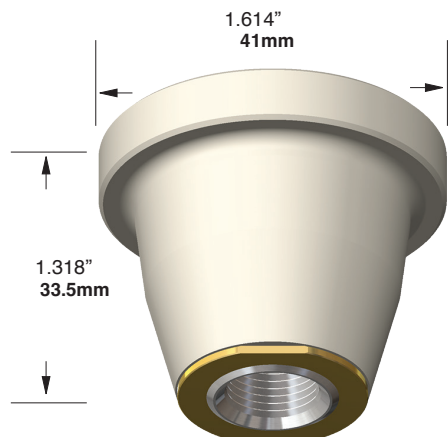
C30D

Nozzle Assy.

C30E

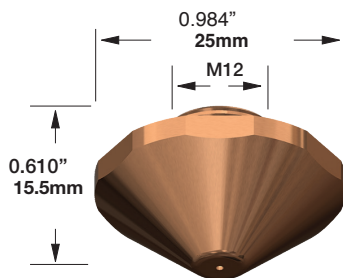


LASER



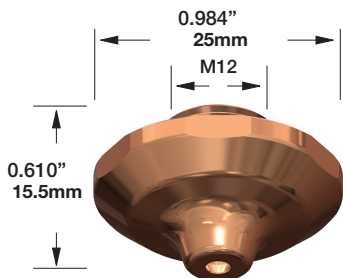
Nozzle Holder, ceramic

1755673



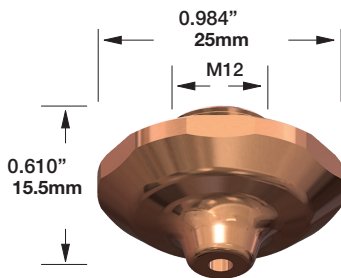
Nozzle EAA

1324858 0.8mm
1324860 1.0mm
1324861 1.2mm
1324863 1.4mm
1324864 1.7mm
1324865 2.0mm
1324866 2.3mm
1324867 2.7mm



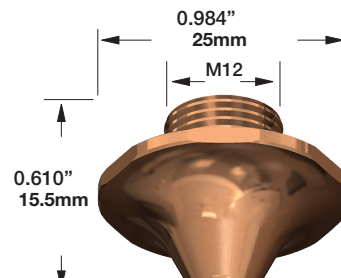
Nozzle Double EAU

2059462 2.5mm
2060001 3.0mm
2060004 4.0mm
2060025 6.0mm
2253595 10.0mm



Nozzle Double EAK

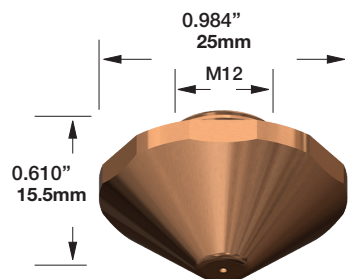
1579549 2.5mm
1579556 3.0mm
1835747 4.0mm



Nozzle EAB

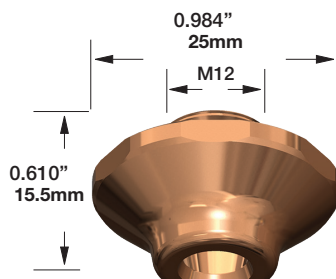
1373324 0.8mm
1373325 1.0mm
1373326 1.2mm
1373327 1.4mm
1373328 1.7mm
1373329 2.0mm
1373330 2.3mm
1373331 2.7mm

LASER



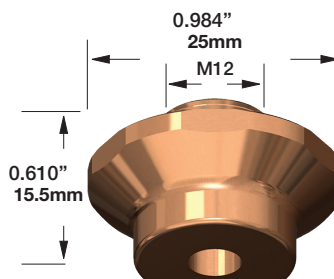
Nozzle Focusing ZAA-01

1637264



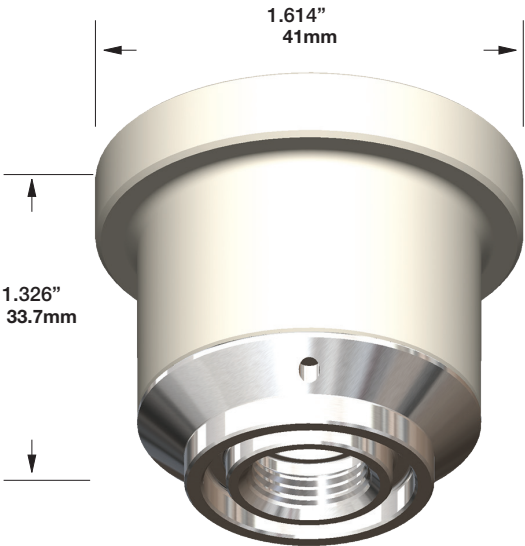
Nozzle Double EAQ

1809091 6.0mm
1809421 7.5mm
1886199 9.5mm

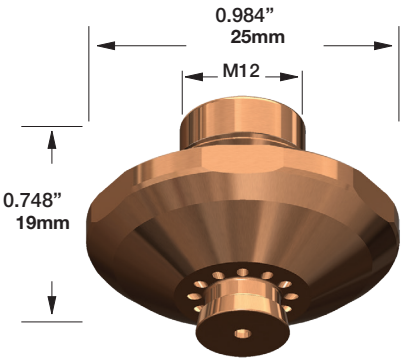


Nozzle EAC

1633046 5.3mm



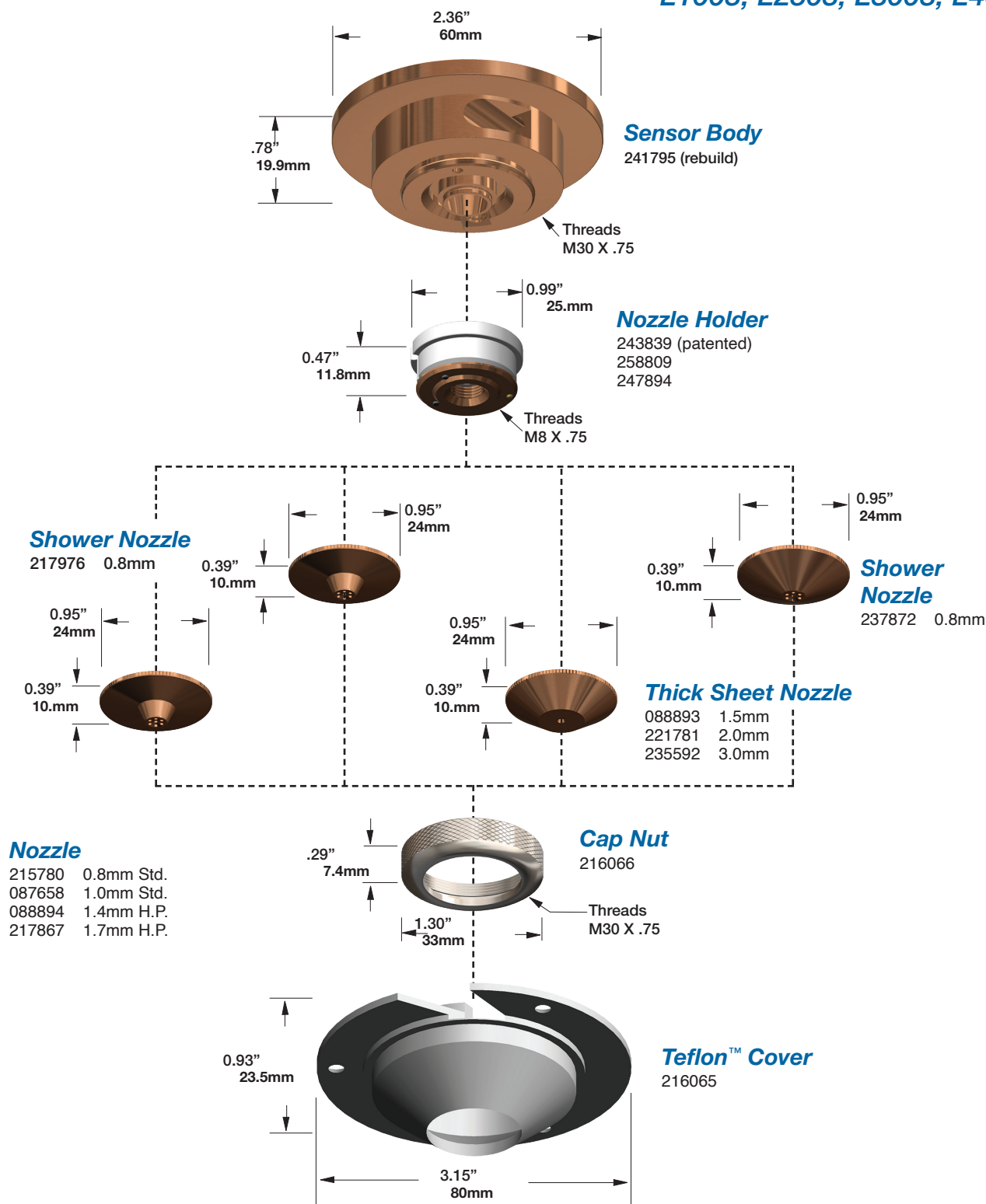
Nozzle Holder, ceramic
1906032



Nozzle EGL
1879940 1.4mm
1879951 1.7mm
1879952 2.0mm
1879953 2.3mm

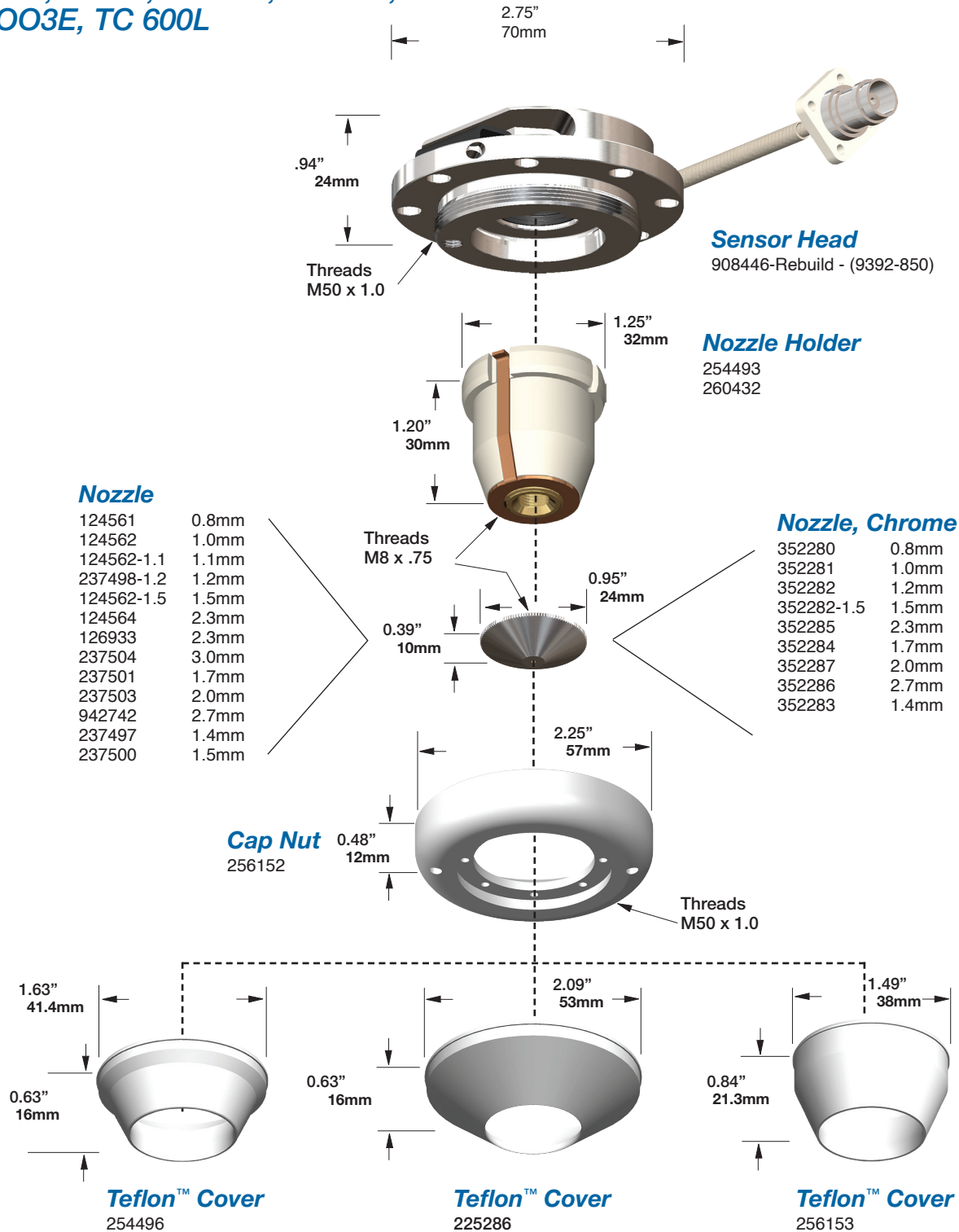
LASER

2.5S/TT
L1003, L2503, L3003, L4003



LASER

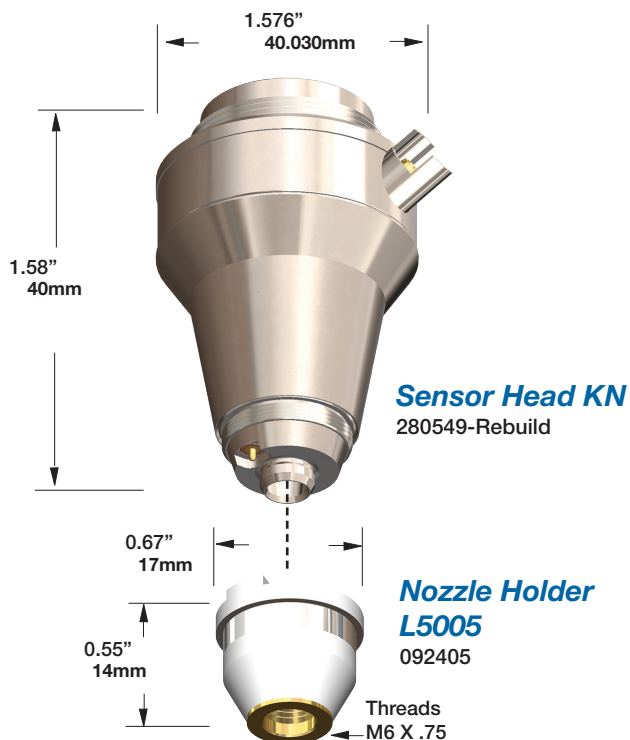
**TRUMATIC L2530, L3030,
L4030, L6030, L2503E, L3003E,
L4003E, TC 600L**



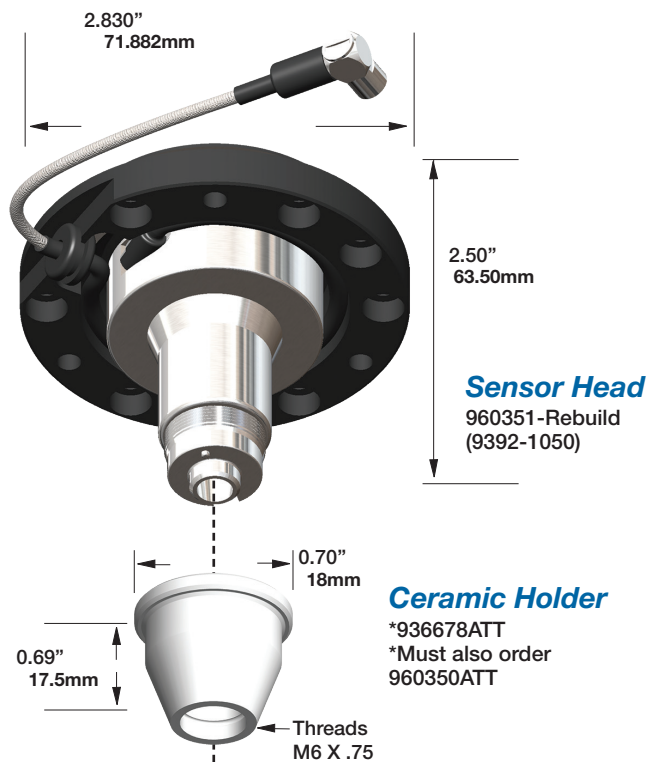
LASER

KN / TUBEMATIC

KN

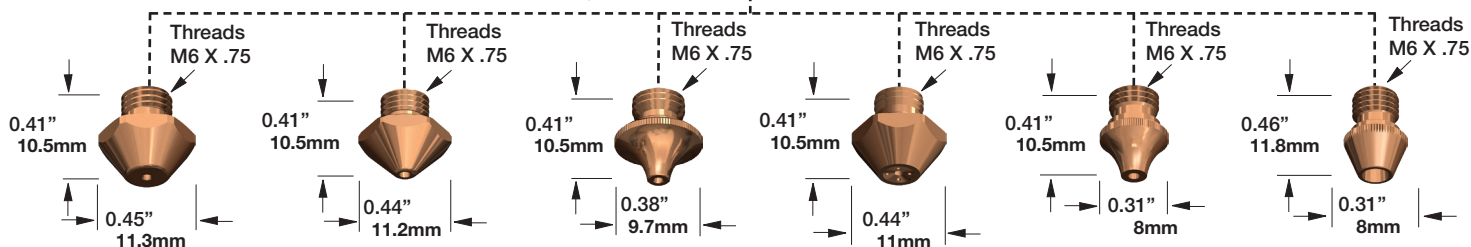
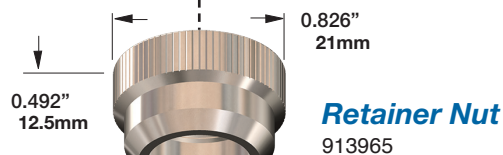


Tubematic



Not Shown

280550 Cone Nut
960350ATT Cap Nut
(for 936678-Att)
233758 2-pc Retaining Ring



Nozzle L5005

135423	0.8mm H.P.
212334	1.0mm H.P.
216199	1.4mm H.P.
225213	1.7mm H.P.
126156	2.3mm H.P.

Nozzle L5005

226939	1.0mm Std.
226940	1.4mm Std.
227144	1.7mm
277177-2.0	2.0mm

Nozzle

135320	1.0mm Std.
135318	1.4mm H.P.
126157	1.75mm H.P.

Shower Nozzle

955043

Nozzle

913799	0.8mm
913800	1.0mm
913801	1.4mm
937988	1.7mm
937989	2.3mm

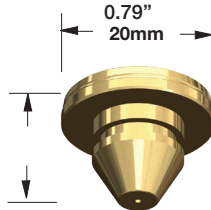
Nozzle

224106	1.6mm
224107	1.8mm
224109	2.0mm
2085524	2.6mm

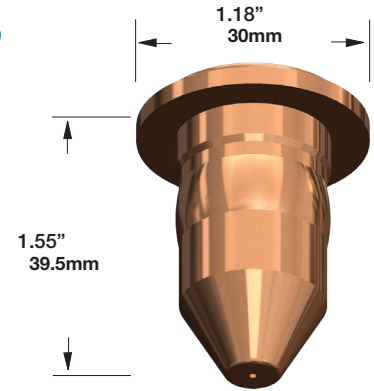
TC 240, TC 260, TC 300
TRUELASER 3030, 5030, 5040, 5060

Punch Press Nozzle
For TC 240, TC 260

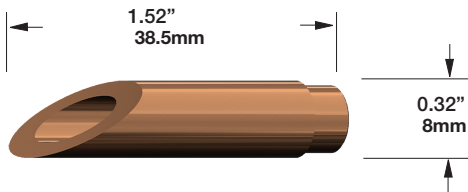
202952	0.8mm Std.
218969	1.0mm Std.
209402	1.4mm H.P.
211533	1.7mm H.P.
217953	1.7mm H.P.



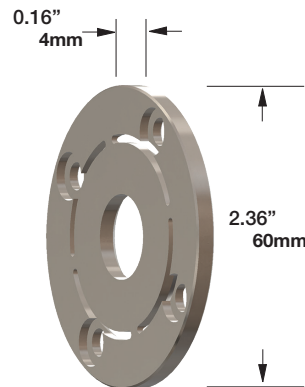
Nozzle For TC 300
060653-3 1.0mm



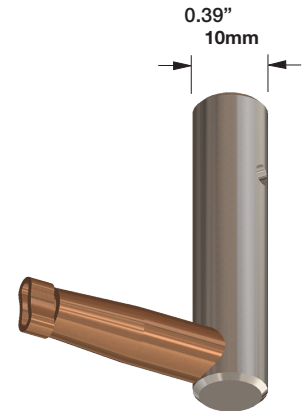
Blow Tube for TC Series
256184



Cover Plate for TC Series
234485



Blow Pipe for TC Series
088557



Parts Available but Not Shown

149884/D5589-801-05000	Sensor Cable
149951	Cable MXC
562311	Cable BNC
563983	Cable BNC
778560	Focus Lens Set
P0589-400-00001-Rebuild / 778548-Rebuild	Sensor Inert MCX
P0589-800-00001-Rebuild / 562313-Rebuild	Sensor Insert BNC

OPTICS FOR TRUMPF® LASERS

Focusing Lenses

P/N	Lasertec P/N	Material	Diameter	Focal Length	Edge Thickness
058398	ZM15500100	ZnSe	1.5"	5.0"	.100"
088114	ZM15500291	ZnSe	1.5"	5.0"	.291"
095273	ZM15750100	ZnSe	1.5"	7.5"	.100"
097517	ZM15750291	ZnSe	1.5"	7.5"	.291"

Protective Windows

P/N	Material	Diameter	Edge Thickness
1254813	FS	134mm	3mm
1614767	FS	34mm	5mm
766719	FS	30mm	5mm
777936-FS	FS	22.35mm	4mm

LASER

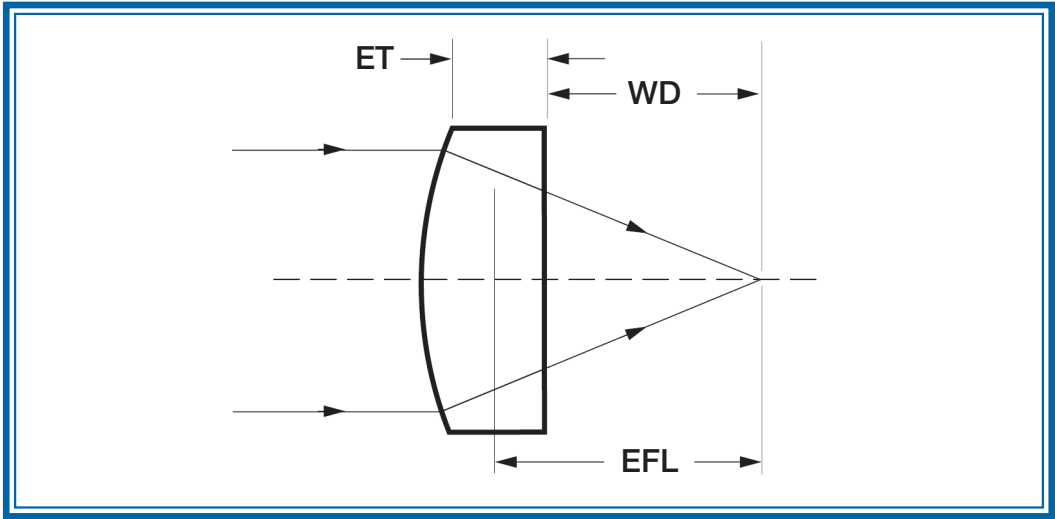
PLANO CONVEX

PLANO CONVEX FOCUSING LENSES

Plano convex lenses are a popular choice in high power CO₂ systems. When spot size and spherical aberration are not critical, these lenses are lower in cost than meniscus lenses, yet they still have the advantages of precise focusing and low absorption.

Standard Specifications:

Dimensional Tolerances		Surface Quality	
Diameter:	+0.000"/-.005"	Scratch-Dig:	40-20
Thickness:	±.010"	*AR coating per surface:	<.2%
Edge Thickness Variation:	≤.002"	Clear Aperture:	90% of diameter
Focal Length:	±1%	Absorption:	<.2%



*Note: Lasertec offers a variety of focusing lenses. Please call for more information.

LASER

MENISCUS FOCUSING LENSES

Positive meniscus lenses have two curved surfaces designed to minimize spherical aberration and achieve the smallest focal spot size. This smaller spot size gives a higher power density at the workpiece. Like the plano-convex lenses, only high quality zinc selenide is used to maintain low absorption and extend the life of Lasertec lenses.

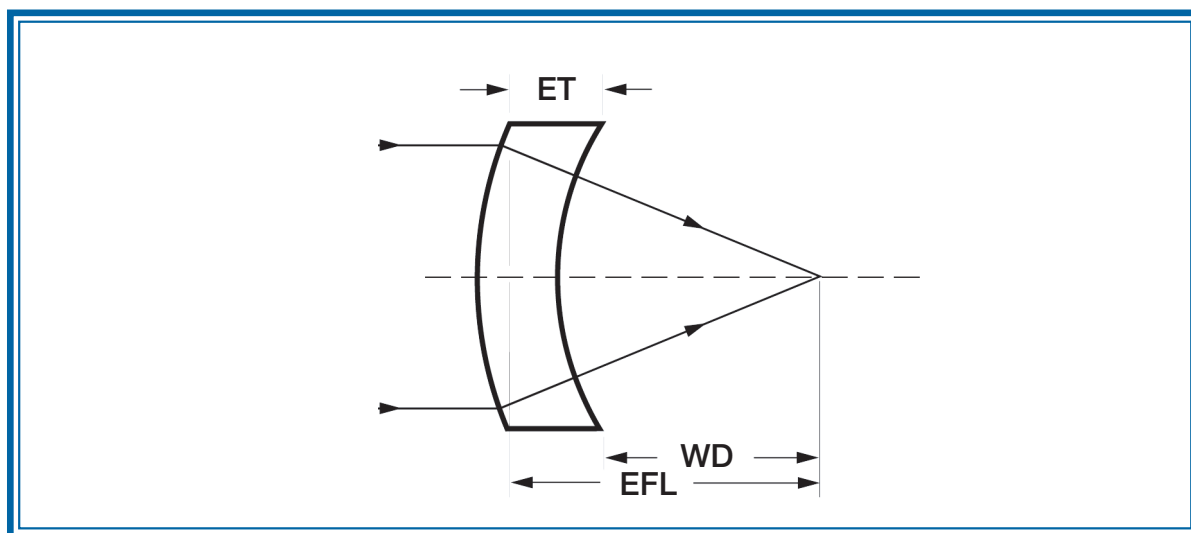
Standard Specifications:

Dimensional Tolerances

Diameter:	+0.000"/-0.005"
Thickness:	±.010"
Edge Thickness Variation:	≤.002"
Focal Length:	±1%

Surface Quality

Scratch-Dig:	40-20
* AR coating per surface:	≤.2%
Clear Aperture:	90% of diameter
Absorption:	≤.2%



LASER

*Note: Lasertec offers a variety of focusing lenses. Please call for more information.

Laser Index

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