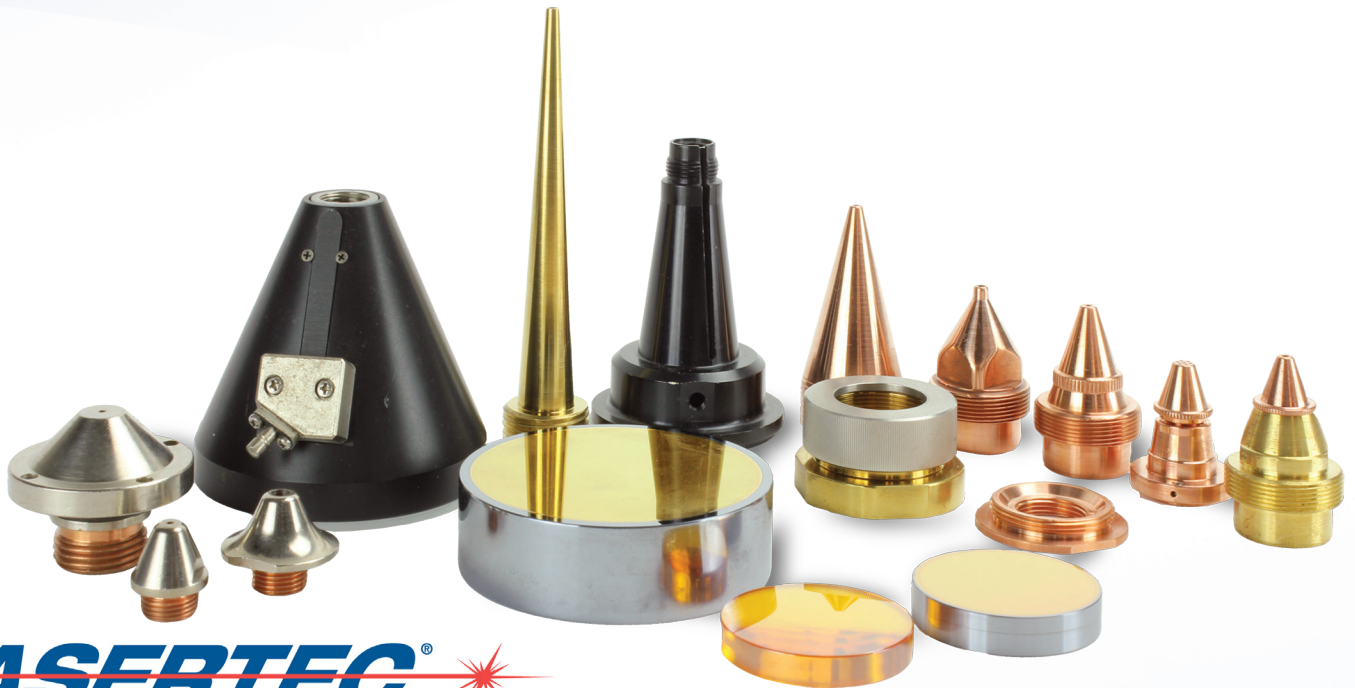


# LASER CUTTING PRODUCTS



**LASERTEC®**

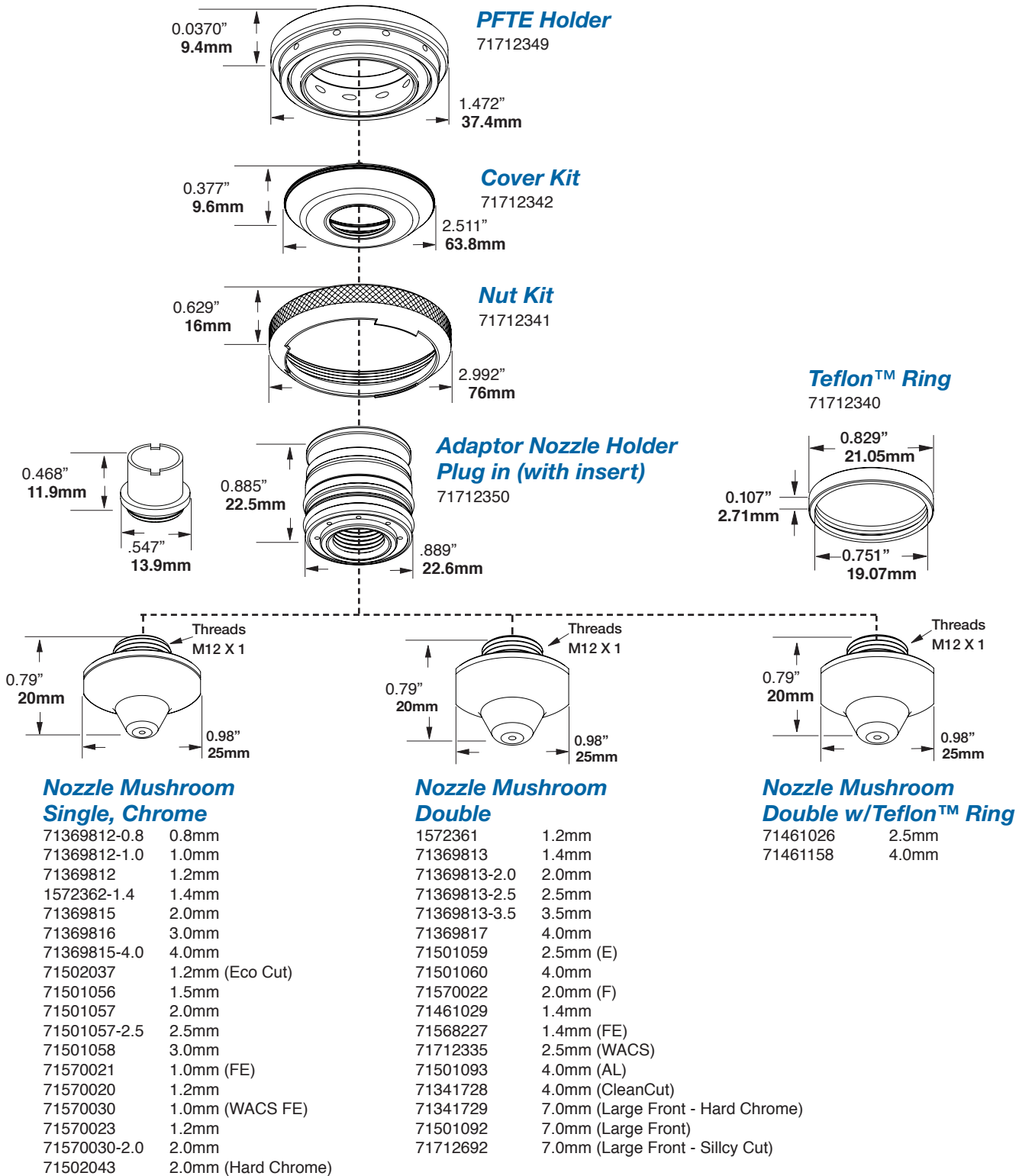
SENSORS, CONSUMABLES, LENSES,  
REFLECTORS AND REPLACEMENT PARTS

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

AMERICAN  
TORCH TIP **ATTC®**

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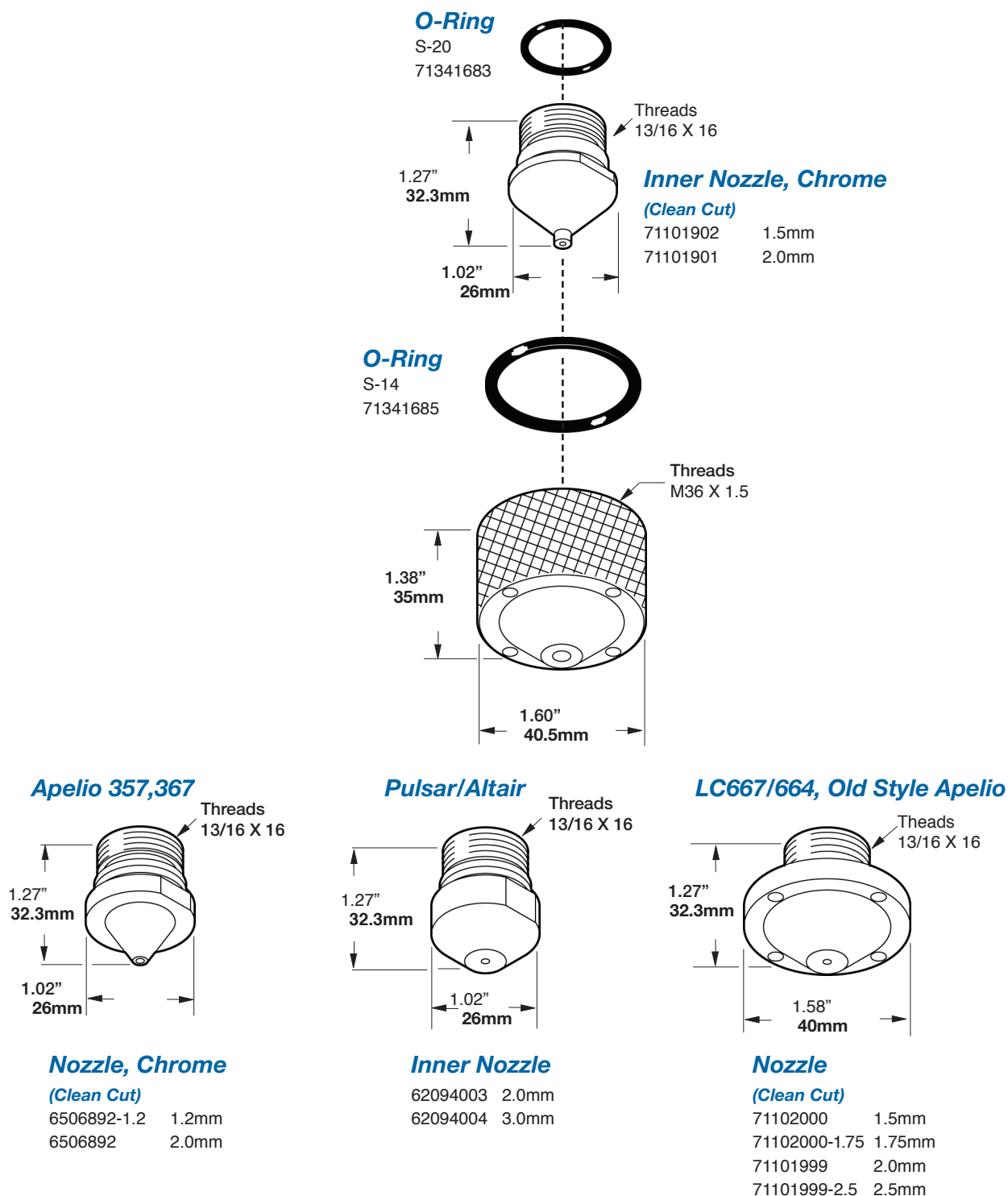


4

AMADA®

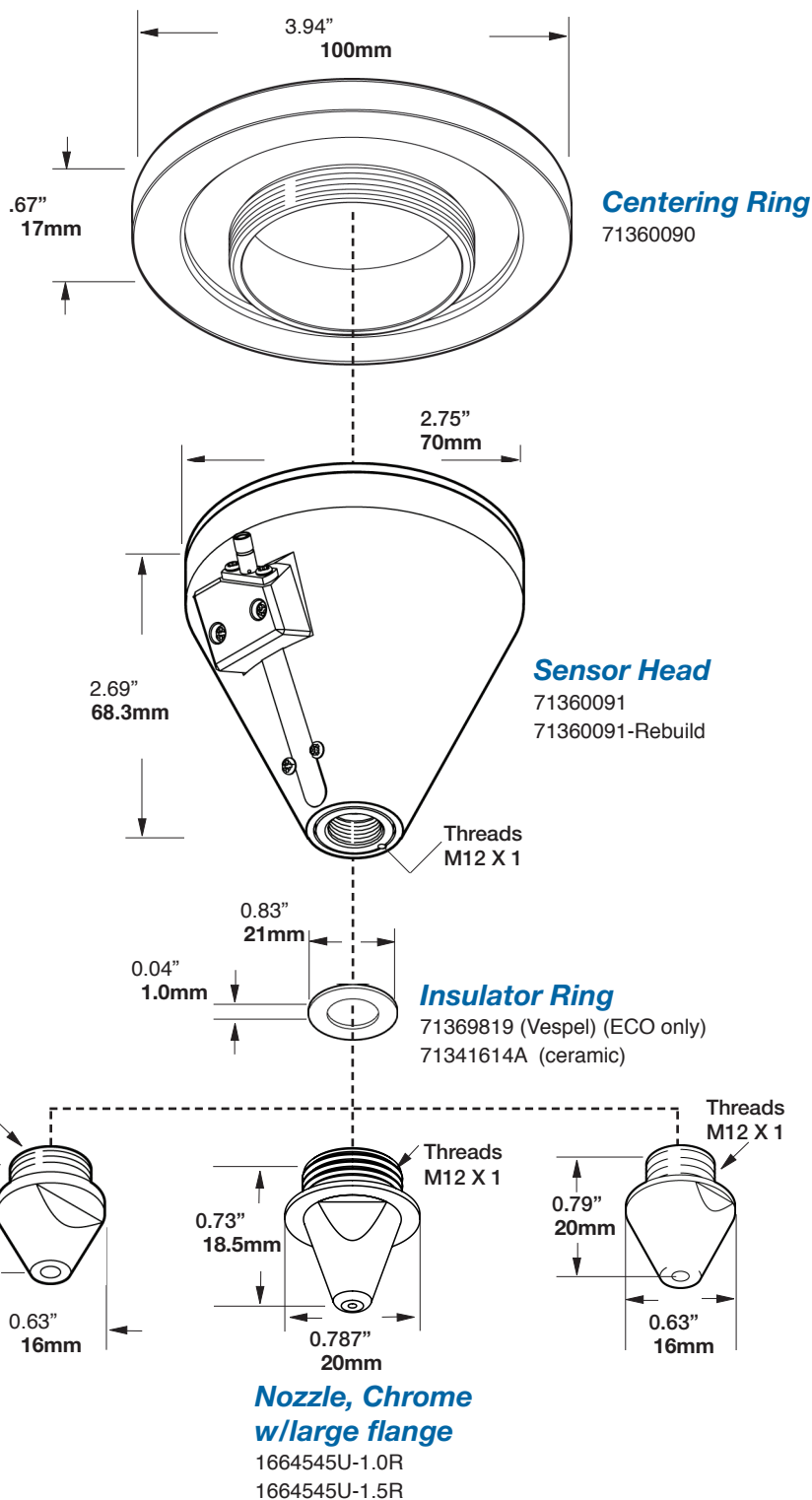
## Lasmac 667/664 Water Assist

LASER

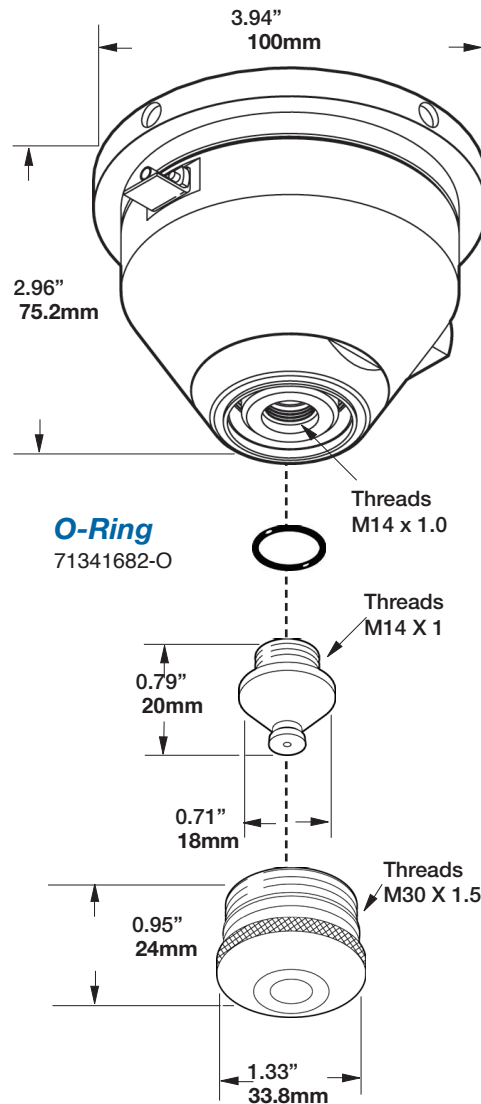




## Sensor System HS95



6

**AMADA**<sup>®</sup>**WACS Sensor System****Sensor Head  
WACS**

71341687- Rebuild

**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

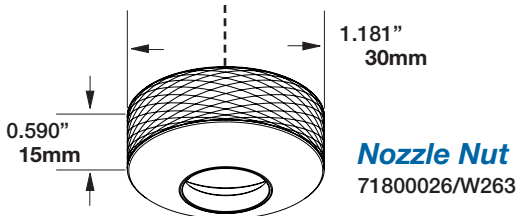
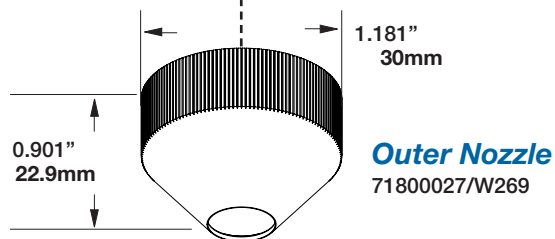
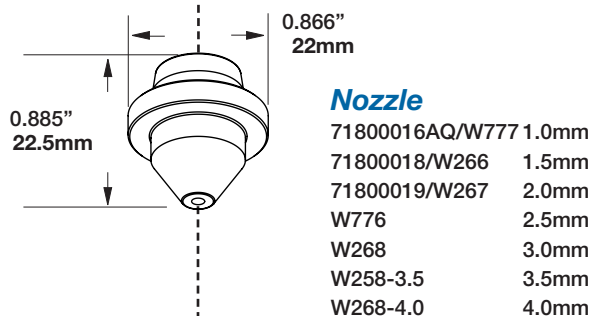
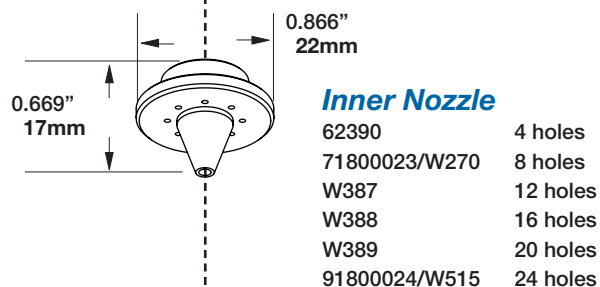
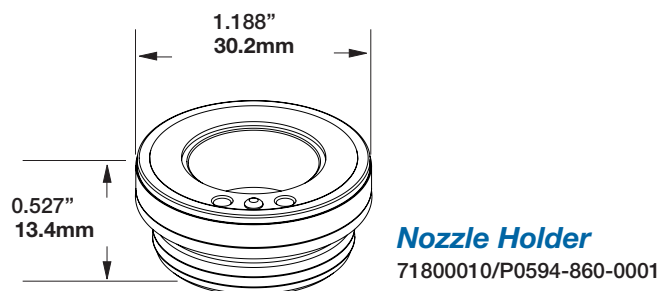
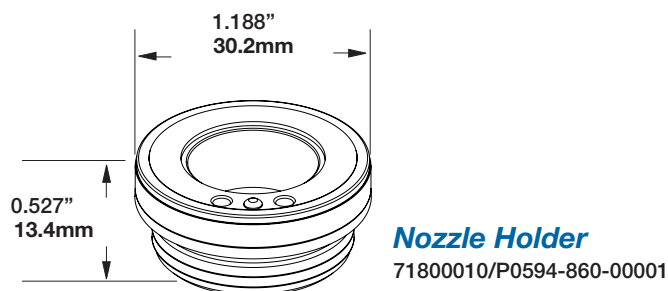
**Nozzle Single WACS, Chrome**

71366096	2.0mm
71298020	3.0mm

**Outer Nozzle, Chrome**

71341684

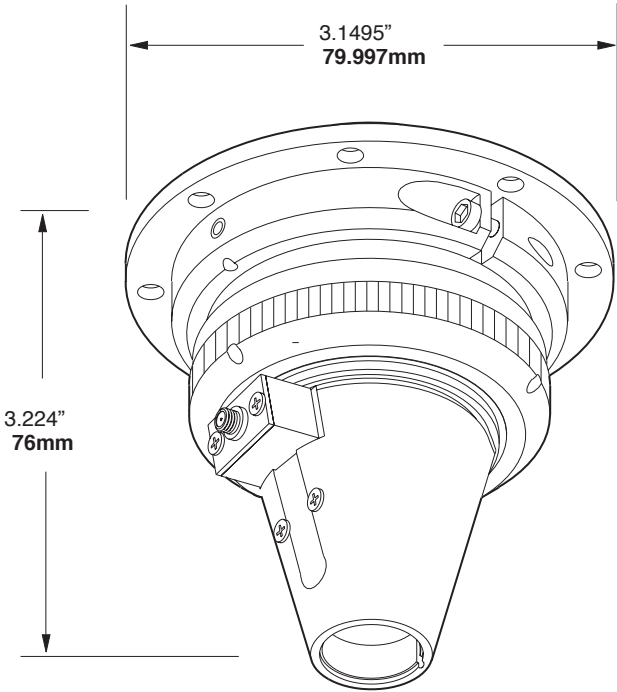
**LASER**



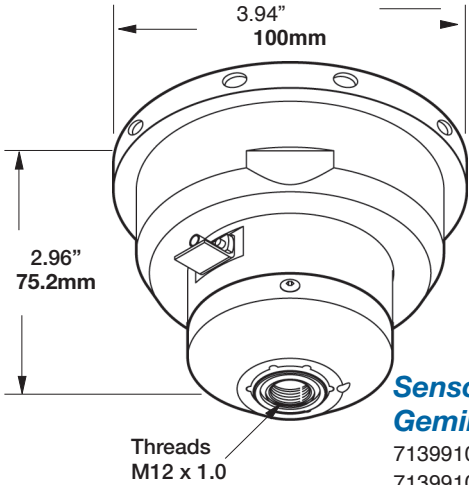
LASER

Sensor Heads

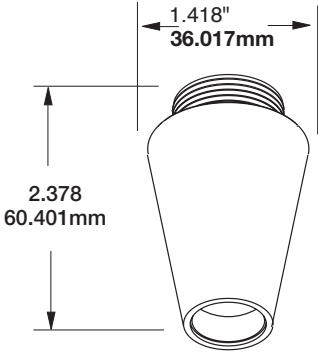
LASER



Sensor Head  
71341634      5.0 HS-98

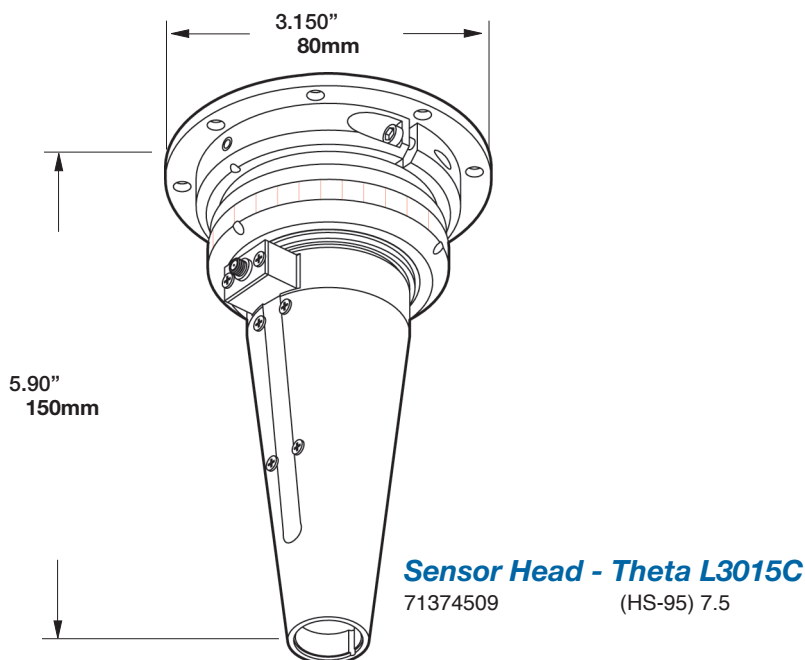
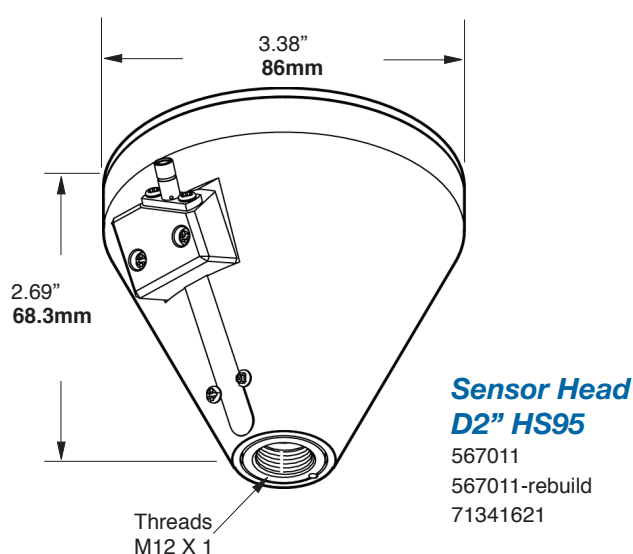
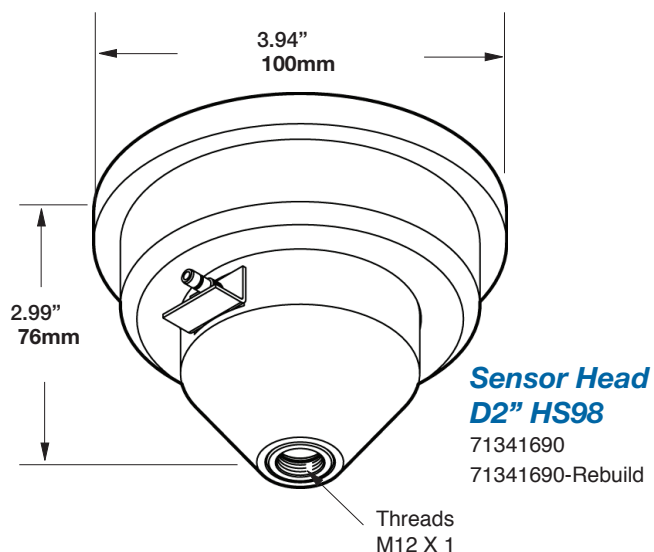


Sensor Head (ECO)  
Gemini  
71399107  
71399107-Rebuild



Sensor Head  
71341622

## Sensor Heads



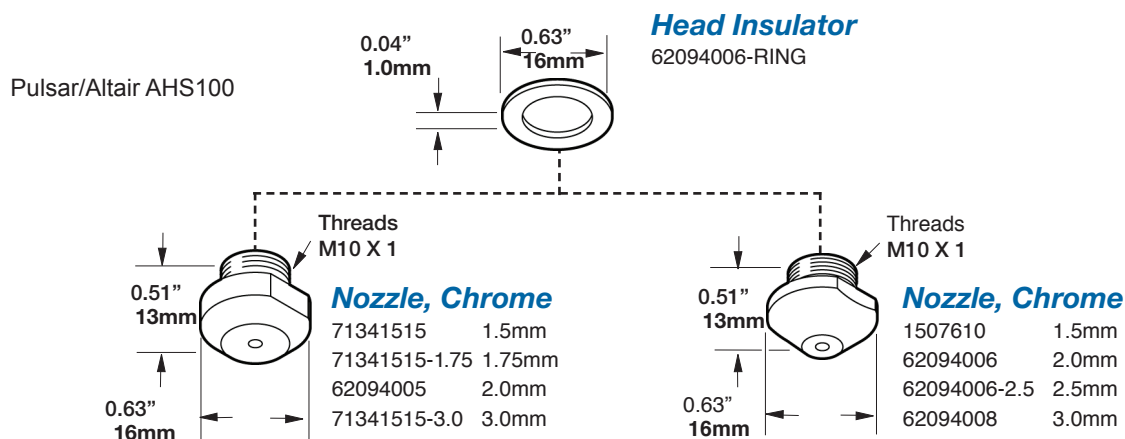
### Parts Available but Not Shown

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

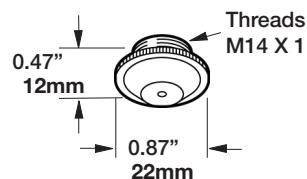


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AMADA®

**Cap. Nozzle**

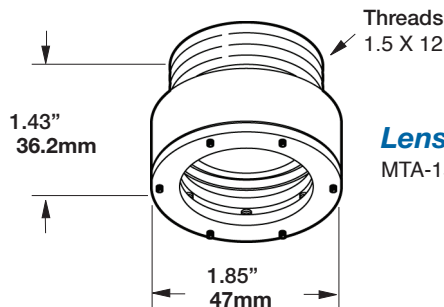
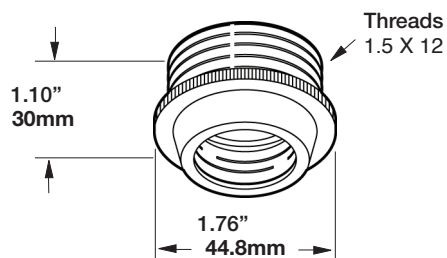
8249301 2.0mm



LASER

**Lens Mounts****Lens Mount 1.1"**

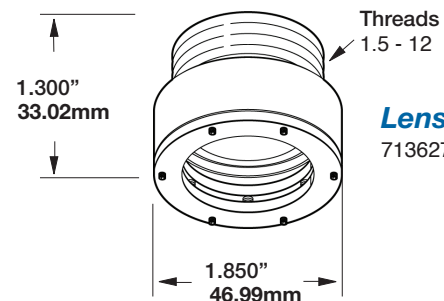
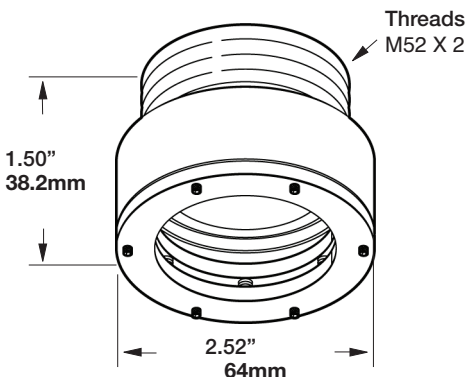
MTA-11

**Lens Mount 1.5"**

MTA-15

**Lens Mount 2.0"**

MTA-20

**Lens Mount 2.0"**

71362733

**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

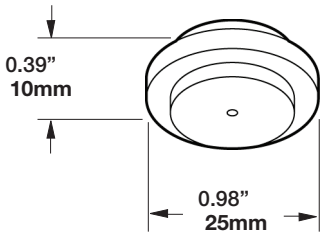
### Focusing Lenses

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

12  
BEHRENS<sup>®</sup>



Nozzle

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

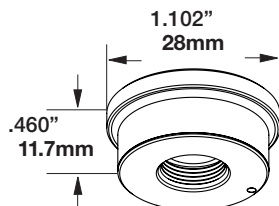
LASER

### 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

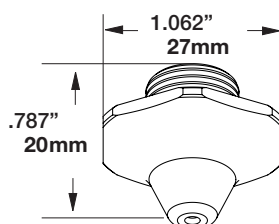
### Nozzle - Chrome

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



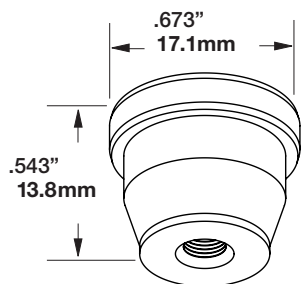
### Nozzle Holder

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

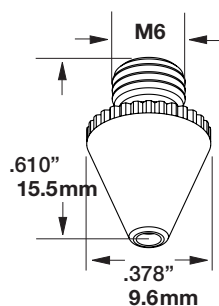


### Nozzle Holder

PO494-752-00001

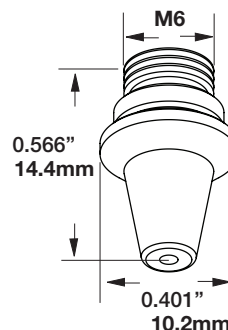
### Double Nozzle

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



### Nozzle

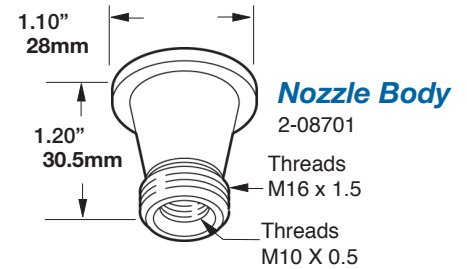
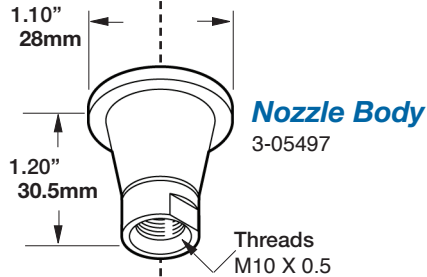
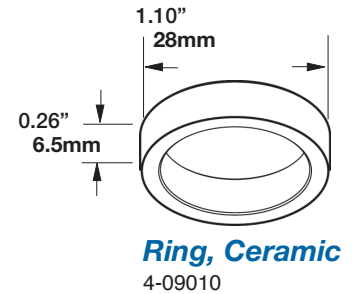
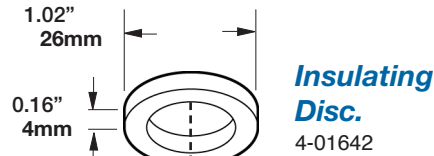
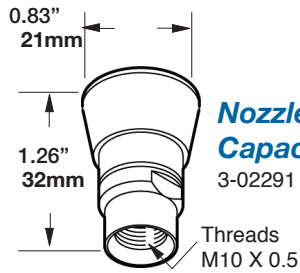
6930250031	1.0mm
6930250032	1.2mm
6930250033	1.5mm
6930250034	1.8mm
6930250035	2.0mm
6930250043	2.3mm
6930250036	2.5mm
6930250044	3.0mm



### Nozzle

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

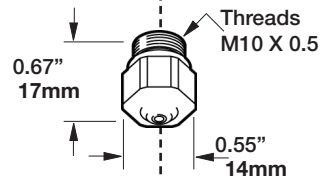
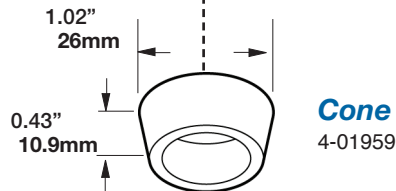
14

**BYSTRONIC® - FIBER****Bystar/Bysprint****LASER****Nozzle Low Pressure, Capacitive**

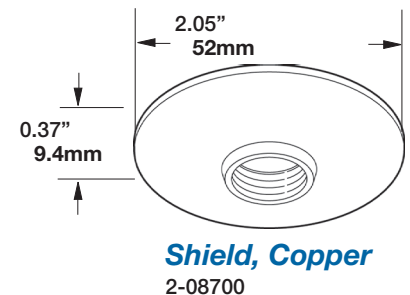
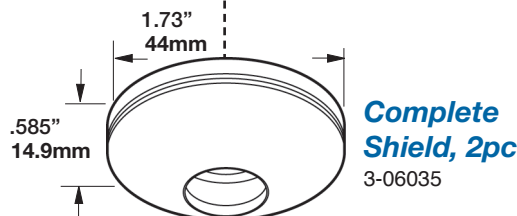
*3-04273	0.8mm	K08
3-01905	1.0mm	K10
3-01906	1.25mm	K12
3-01907	1.5mm	K15
3-01908	1.75mm	K17
3-01909	2.0mm	K20
3-04274	2.5mm	K25

**Nozzle High Pressure, Capacitive**

3-04277	0.8mm	HK08
3-01910	1.0mm	HK10
3-01911	1.25mm	HK12
3-01912	1.5mm	HK15
3-01913	1.75mm	HK17
3-01914	2.0mm	HK20
3-01915	2.5mm	HK25
3-06112	3.0mm	HK30
3-06112-3.5	3.5mm	HK35

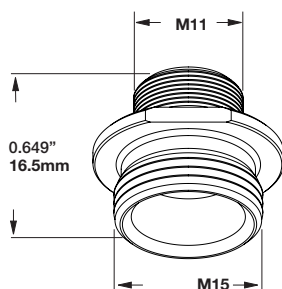
**Nozzle, Double - Chrome**

Part #	Size	
3-01658	1.0mm	NK10
3-16059	1.25mm	NK12
3-16060	1.5mm	NK15
3-14317	1.75mm	NK17
3-14318	2.0mm	NK20
3-14319	2.5mm	NK25
3-16061	3.0mm	NK30



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



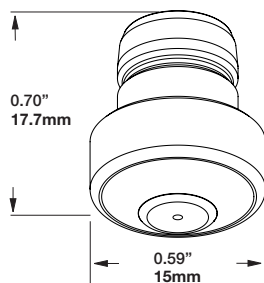


**Breakaway**

10075057

**Quick Release Nozzle**

Part #	Size	
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**

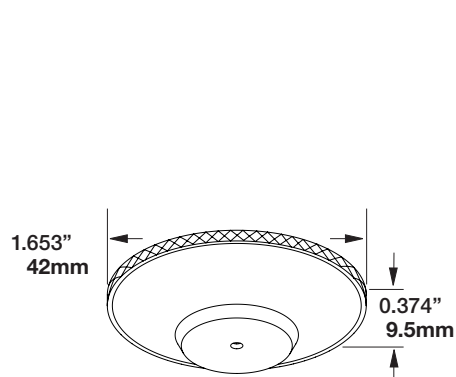
Part #	Size	
10049747	1.0mm Double	NK1015
10035275	1.2mm Double	NK1215
10035278	1.5mm Double	NK1515
10035290	1.7mm Double	NK1715
10035292	2.0mm Double	NK2015
10035294	2.5mm Double	NK2515
10035296	2.5mm Double W/ 2.0 Inner	NK2520
10035298	3.0mm Double W/ 1.7 Inner	NK3017
10035301	3.0mm Double	NK3020
10035302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

**LASER**

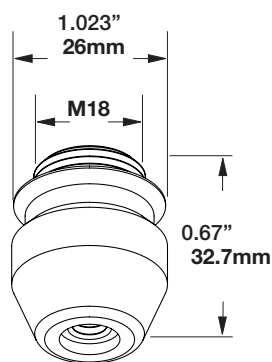
**Parts Available but Not Shown**

Part #	Description	Size
10045746	Fused Silica Protective Window	36.0mm x 5.0mm

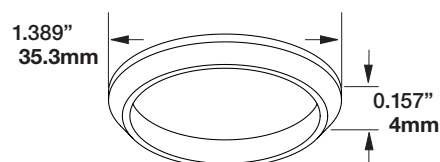
16

**BYSTRONIC®****CL Nut**

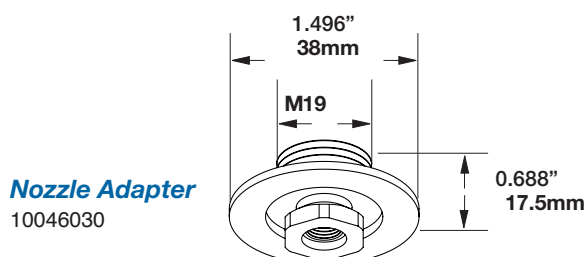
BY310-0398

**Nozzle Holder**

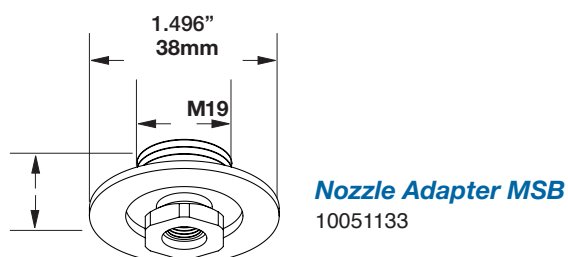
10034061

**Isolator Ring, ceramic**

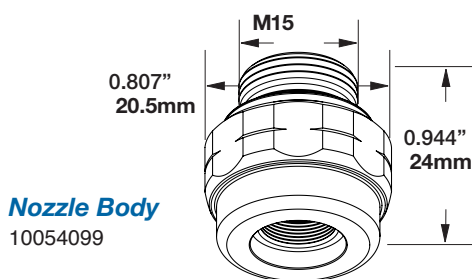
10046025

**Nozzle Adapter**

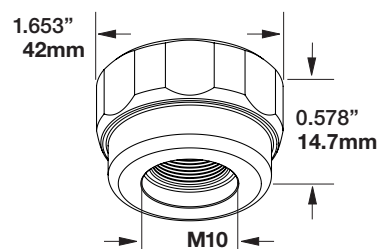
10046030

**Nozzle Adapter MSB**

10051133

**Nozzle Body**

10054099

**Nozzle Body Threaded**

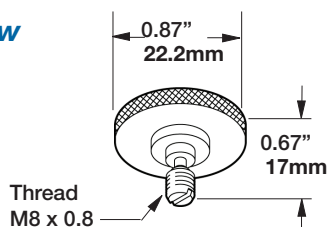
10071494

**LASER**

**Byspeed and Spare Parts**

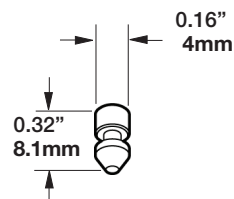
**Knurled Screw**

4-03136



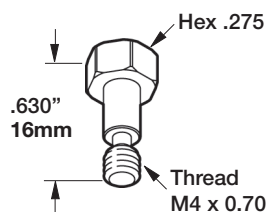
**Pin**

4-03137



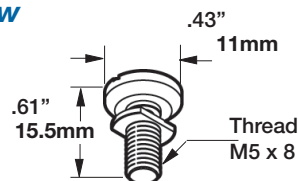
**Knurled Screw**

4-00324



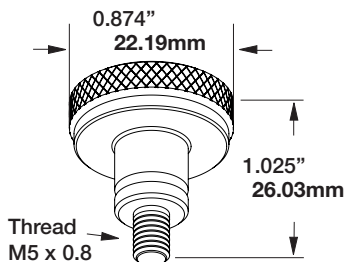
**Knurled Screw**

3-09001



**Knurled Screw**

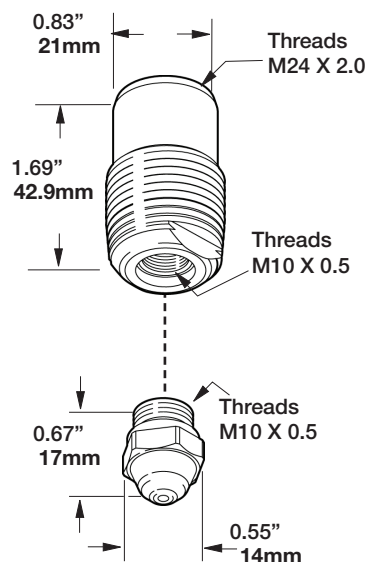
4-04976



**Nozzle Body**

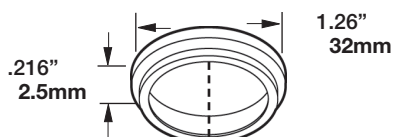
3-00407

Tactile



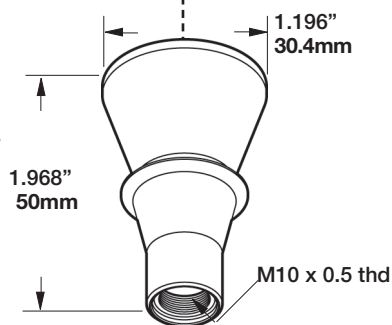
**Insulating  
Ring**

3-13113



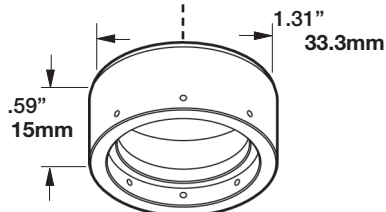
**Nozzle Body -  
Byspeed**

2-10837



**Insulating  
Ring**

3-13422



**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

LASER

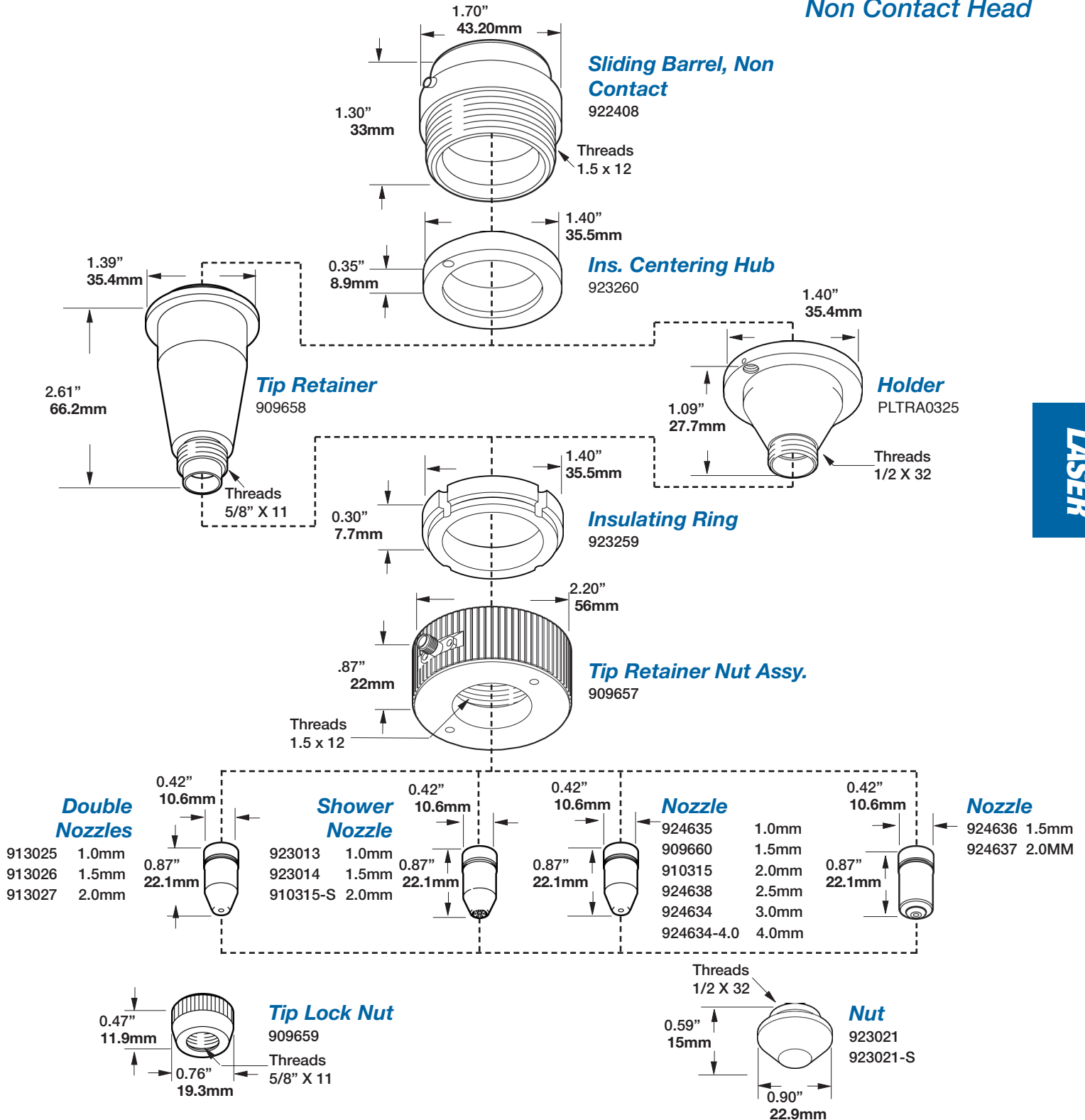
**OPTICS FOR BYSTRONIC<sup>®</sup> LASERS****Focusing Lenses**

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

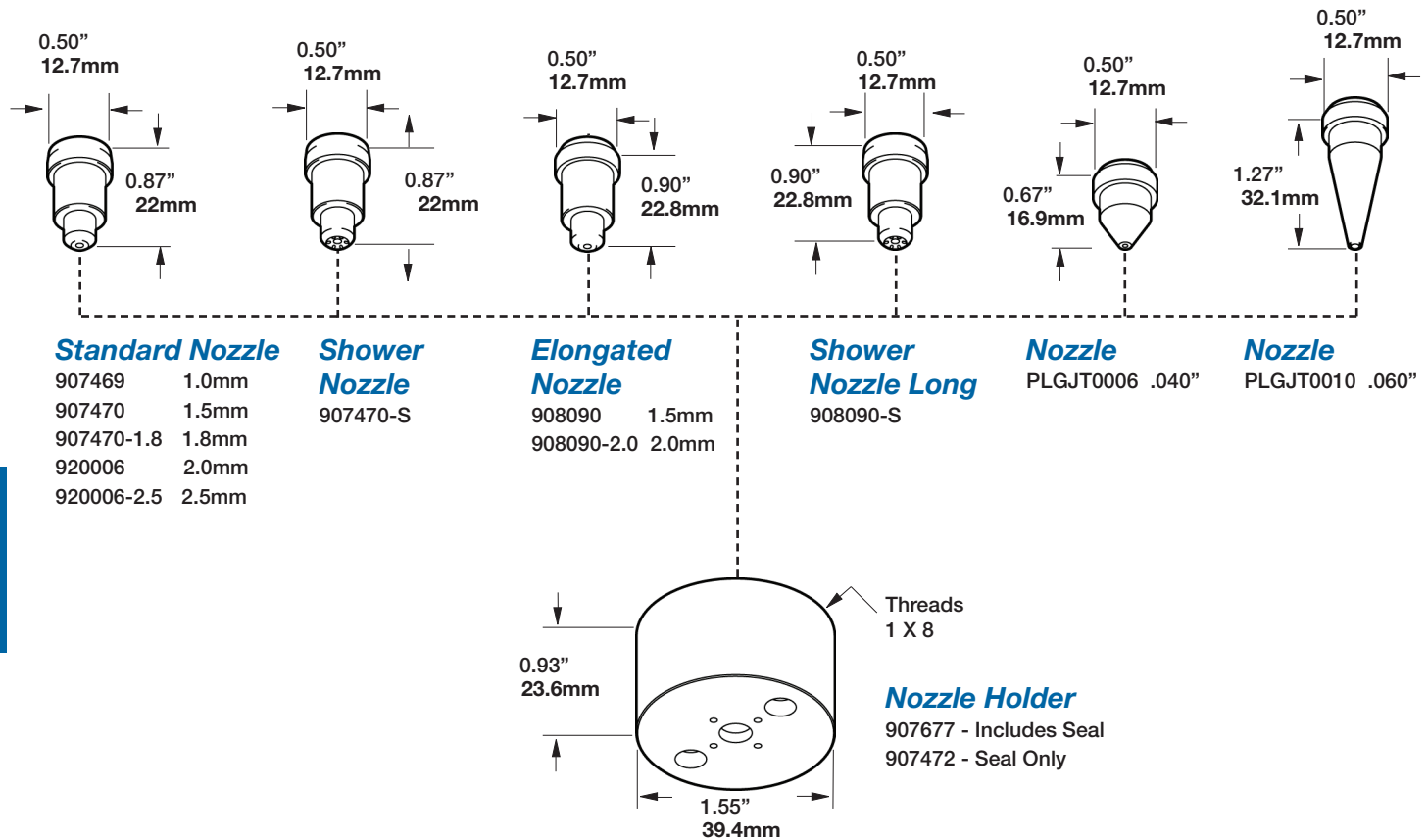
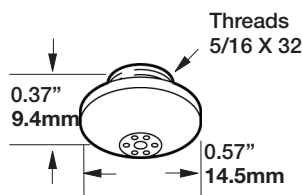
**Non Contact Head**



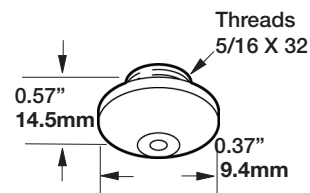
**LASER**



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**CINCINNATI<sup>®</sup>****Contact Head****LASER****CINCINNATI<sup>®</sup>  
Non Contact**

**Shower Nozzle**  
922772



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

## OPTICS FOR CINCINNATI® LASERS

### Focusing Lenses

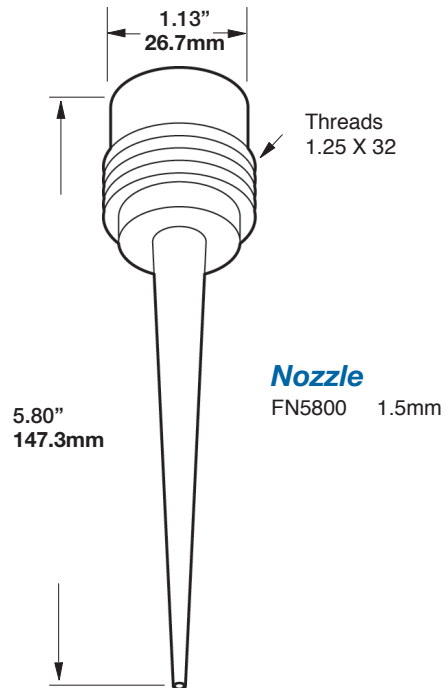
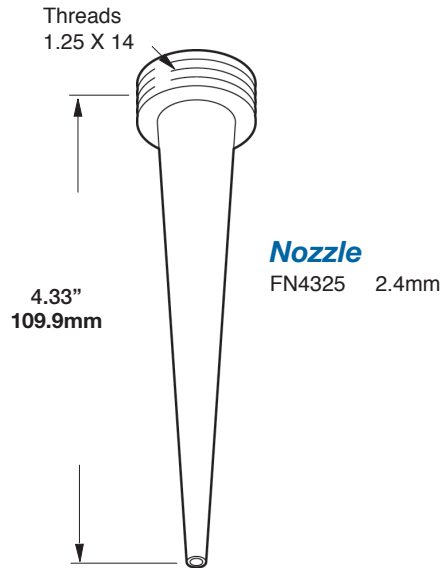
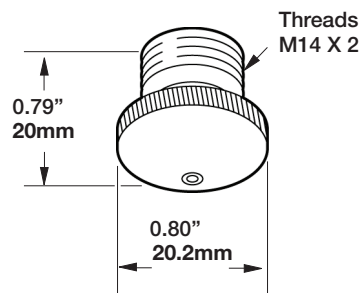
P/N	Lasertec P/N	Material	Diameter	Focal Length	Edge Thickness
907557	ZC155018160	ZnSe	1.5"	5.018"	.160"
908085	ZC15513280	ZnSe	1.5"	5.18"	.280"
909484	ZC15763280	ZnSe	1.5"	7.63"	.280"
922376	ZC20769380	ZnSe	2.0"	7.69"	.380"
922377	ZC20519380	ZnSe	2.0"	5.19"	.380"

### Protective Windows

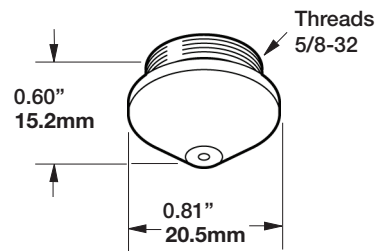
P/N	Material	Diameter	Edge Thickness
913987	FS	38.1mm	1.6mm

LASER

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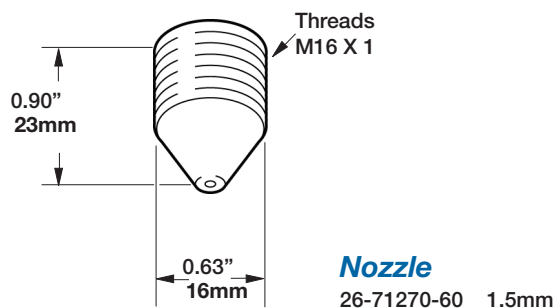
**DIRECTED LIGHT® / ELECTROX****DIRECTED LIGHT®****ELECTROX**

**Nozzle**  
ELE-AL 1.5 1.5mm



**Nozzle**

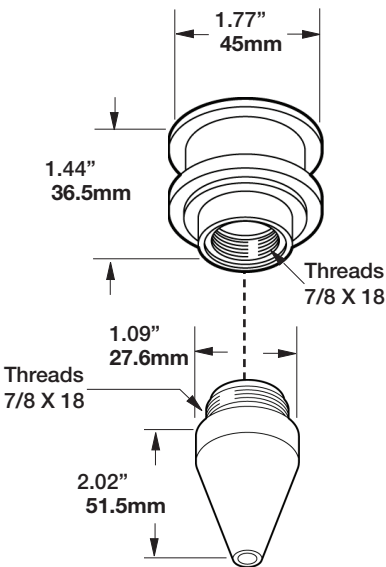
SPA01-B0001	1.0mm
SPA01-B0002	1.2mm
SPA01-B0003	1.5mm
SPA01-B0004	2.0mm
SPA01-B0031	2.5mm



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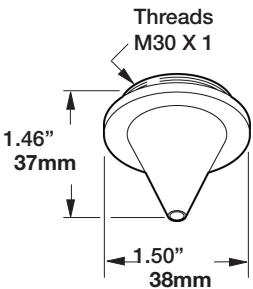
GREMADA<sup>®</sup>

LASER

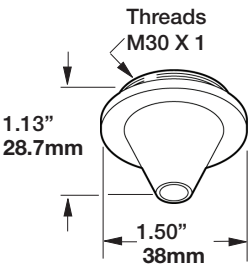


**Adapter**  
100.703.4

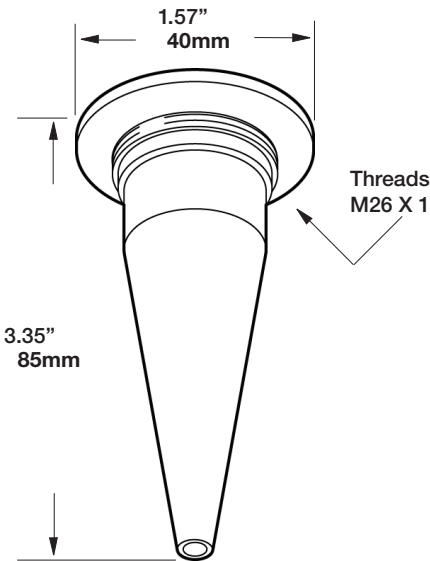
**Adapter Tip**  
100.703.3 5mm



**Powder Cone**  
100.703.2-2.5 2.5mm

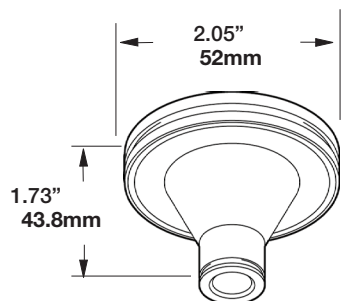


**Nozzle**  
100.703.2 7.4mm

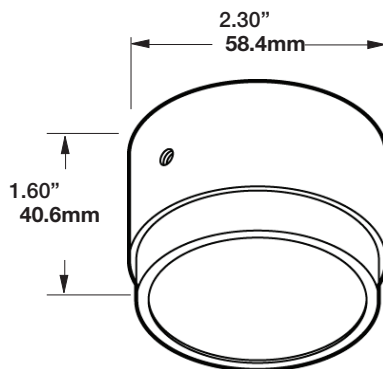


**Beam Cone**  
100.703.5

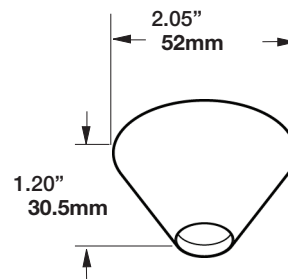




**Housing, Main Body**  
216-20720

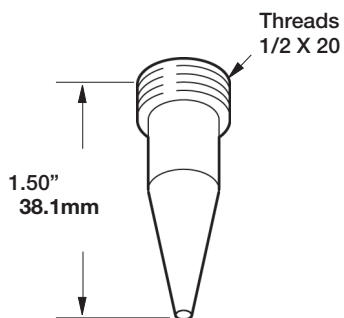


**Housing Cover**  
216-20718

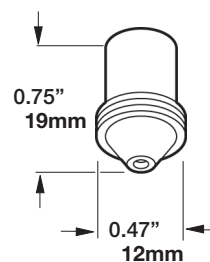


**Housing, Water**  
216-20717

**LASER**



**Nozzle, Inner**  
216-20719

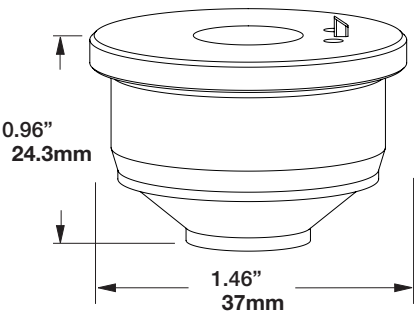


**Nozzle, Outer**  
216-20722 .080

**Parts Available but Not Shown**

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

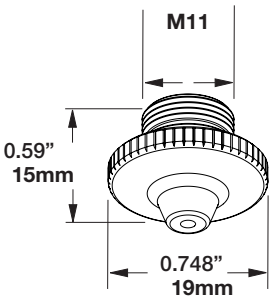
26  
HK LASER & SYSTEMS<sup>®</sup>



Nozzle Holder ceramic  
HCH-S01201

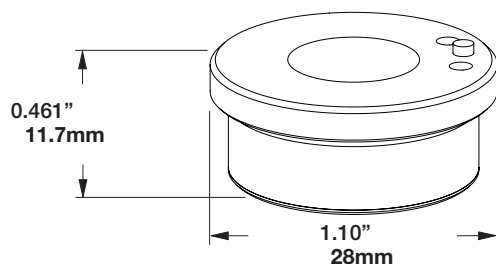
Nozzle N

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

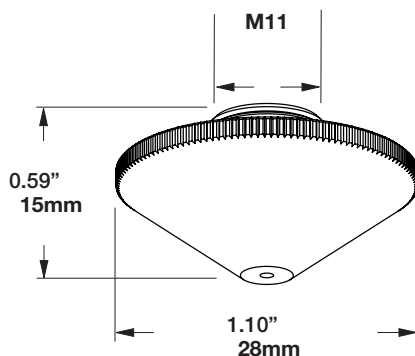


Nozzle Double N

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

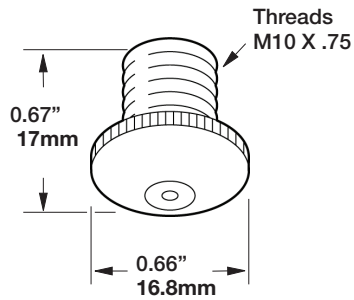
**Nozzle Double**

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

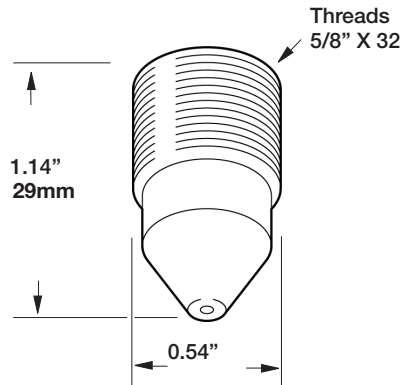
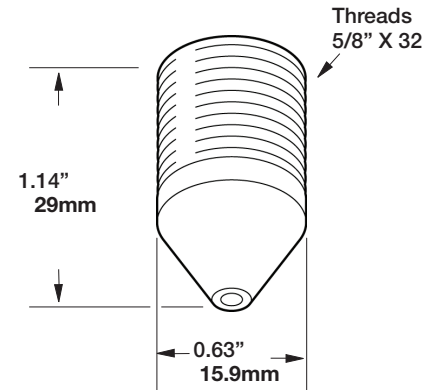
28

KOMATSU® / LASAG®

KOMATSU®

**Nozzle**

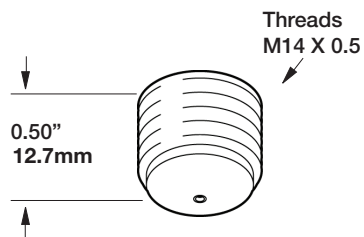
968-41-93-761 1.7mm

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

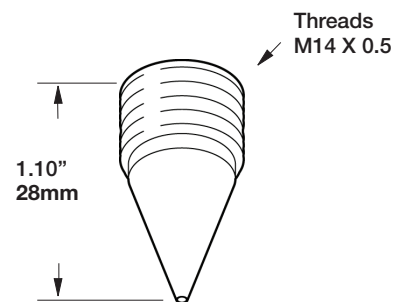
968-41-57-850 2.0mm

LASER

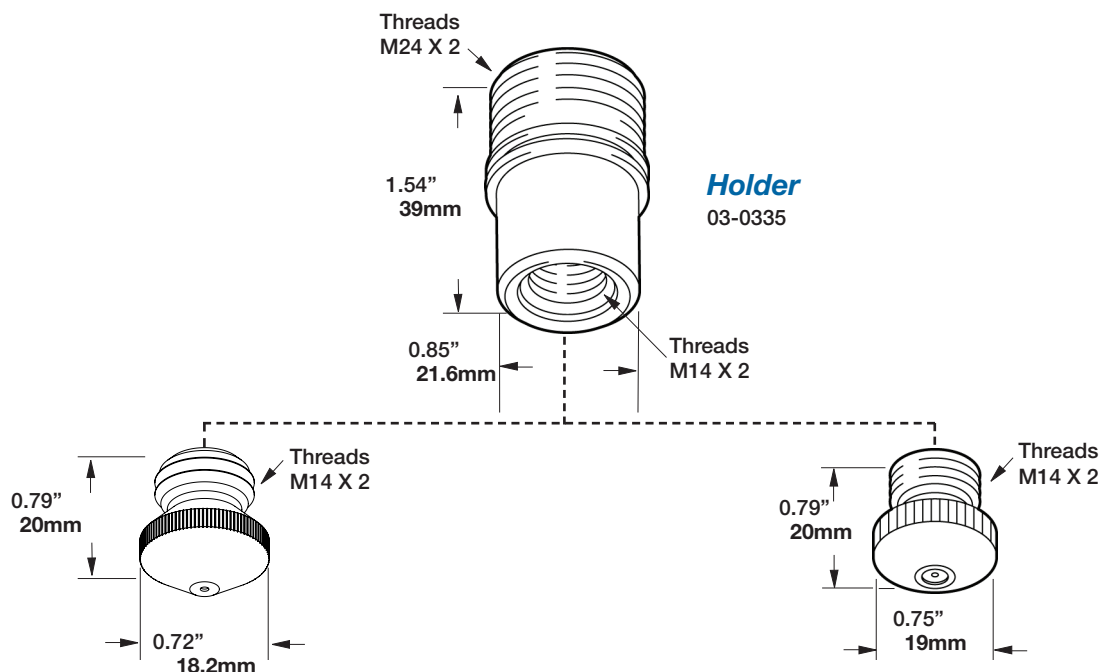
LASAG®

**Nozzle Short**

LASAG.SHORT 1.0mm

**Nozzle Long**

LASAG.LONG 1.0mm

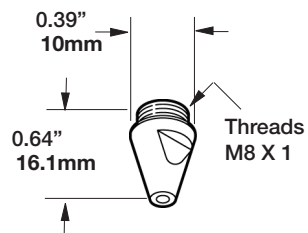


**Nozzle High Pressure**

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

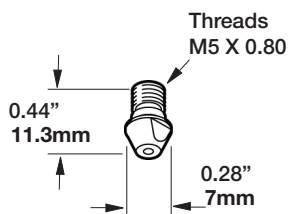
**Nozzle Low Pressure**

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



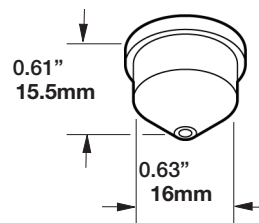
**Nozzle**

03-0916 2.0mm



**Nozzle**

03-8358 1.5mm

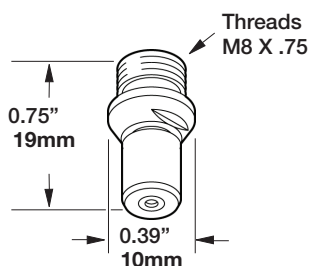


**Nozzle**

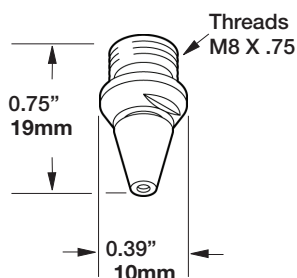
03-210T	1.0mm
03-8720	1.2mm
03-214T	1.4mm
03-215T	1.5mm
03-217T	1.7mm
03-8729	2.0mm
03-224T	2.4mm
03-225T	2.5mm
03-230T	3.0mm

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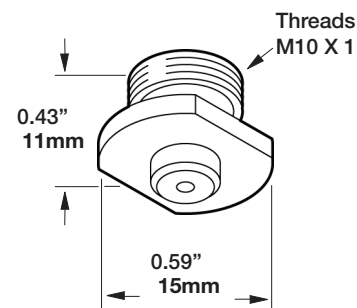
LASERDYNE® / PRIMA®

**Nozzle**

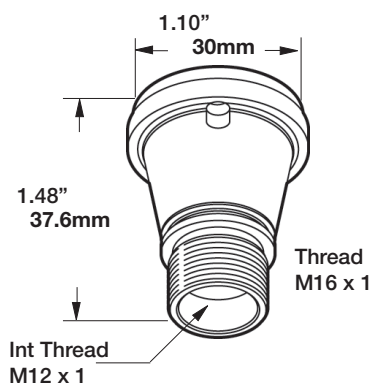
485.73.421 / 485.73.114C 1.5mm  
 485.73.422 / LW3.46.101A 2.0mm  
 485.73.423 2.5mm  
 485.73.424 3.0mm

**Nozzle Tapered**

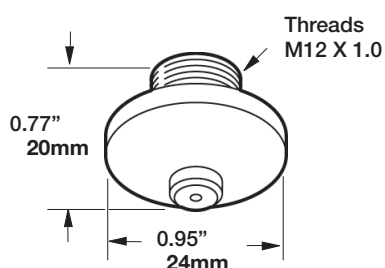
485.73.115A 1.5mm  
 485.73.116A 2.0mm

**Nozzle**

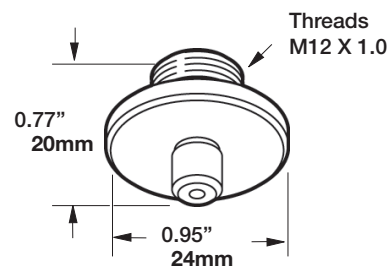
710.11.153 1.0mm  
 710.11.150 1.5mm  
 710.11.152 2.0mm  
 710.11.155 2.5mm  
 710.11.156 3.0mm


**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

LASER



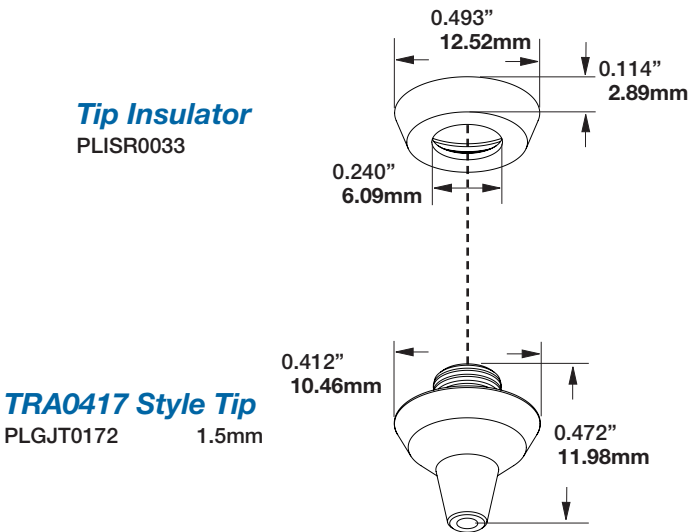
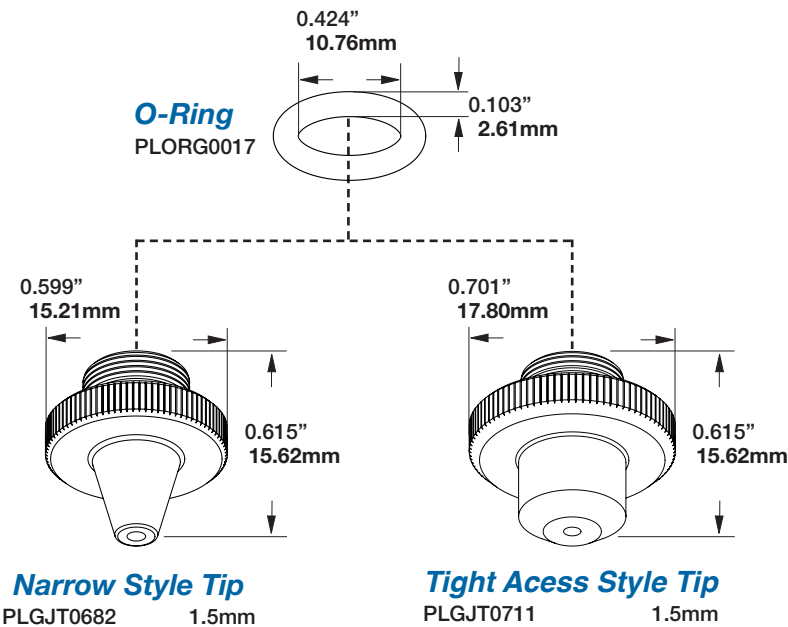
## OPTICS FOR LASERDYNE® / PRIMA® LASERS

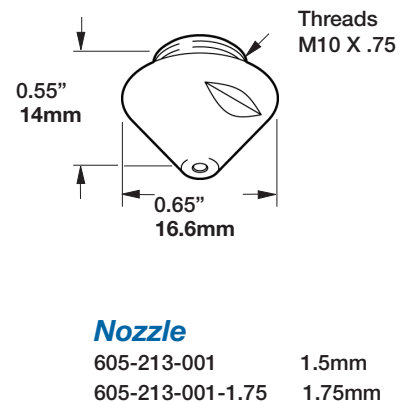
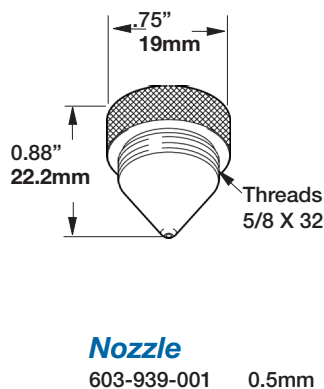
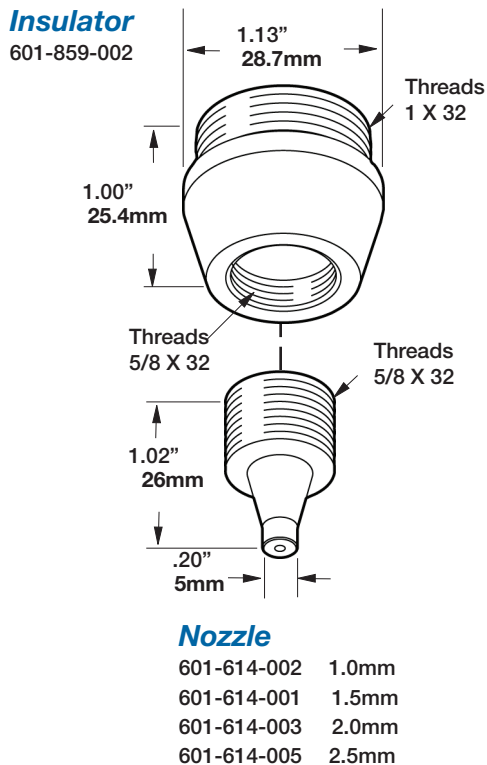
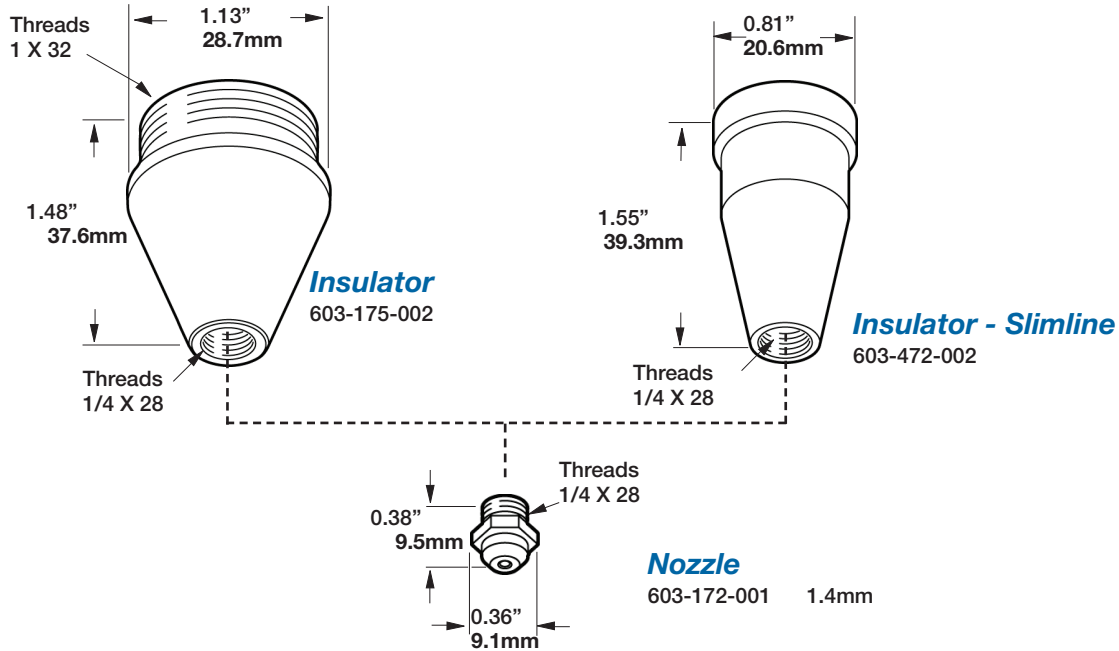
### Focusing Lens

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"

FiberCut<sup>™</sup> ST

LASER

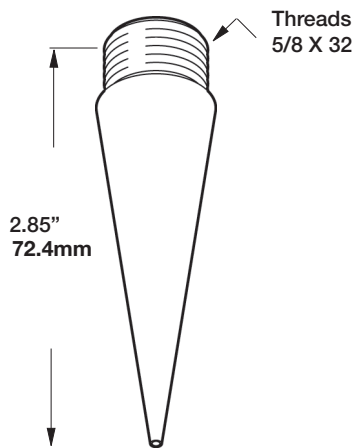




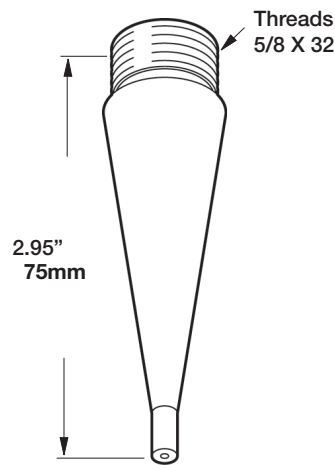
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LUMONICS / MAZAK®

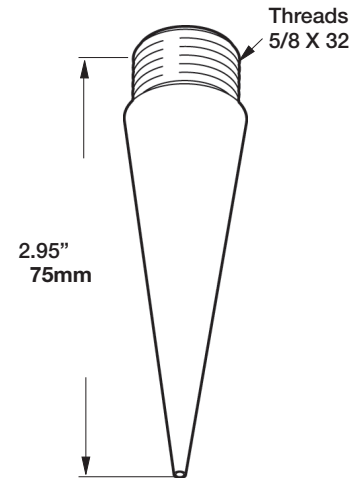
## LUMONICS

**Nozzle**

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

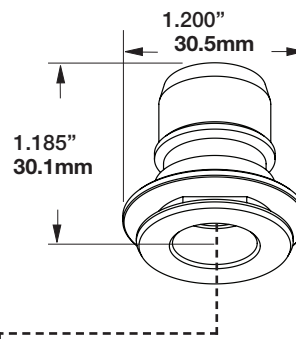
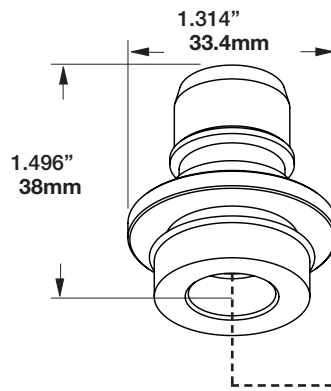
**Nozzle**

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

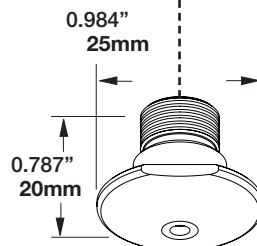
**Nozzle**

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

## MAZAK®

**Nozzle Holder**  
36143310740**Nozzle Holder  
Hyper Gear**  
36143304420**Nozzle**

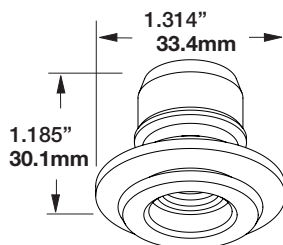
46143304470 1.2mm  
46143304450 1.5mm  
46143304460 2.0mm  
46143304480 2.5mm  
46143304490 3.0mm  
46143304500 3.5mm  
46143304510 4.0mm

**Double Nozzle**

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

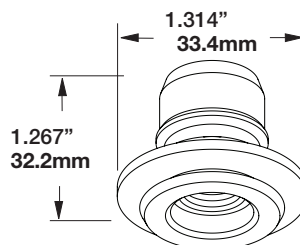
### Nozzle Holder

36143310522



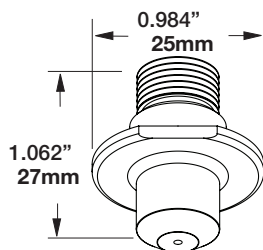
### Nozzle Holder

36143310523



### Nozzle Pencil

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

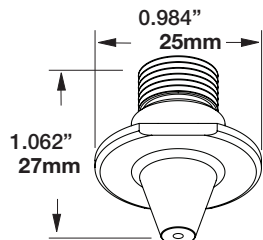


### Nozzle Double Pencil

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

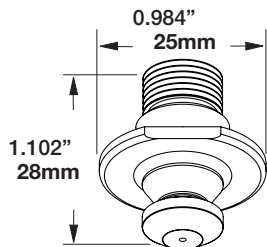


### Nozzle Double Slim

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

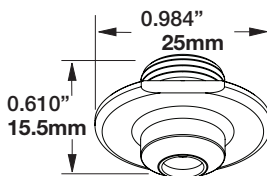


### Nozzle Double Pencil

0628331820 1.5mm HP

### Nozzle Double Smooth

Q6283300030 6.0mm  
Q6283300020 7.5mm  
Q6283300010 9.5mm

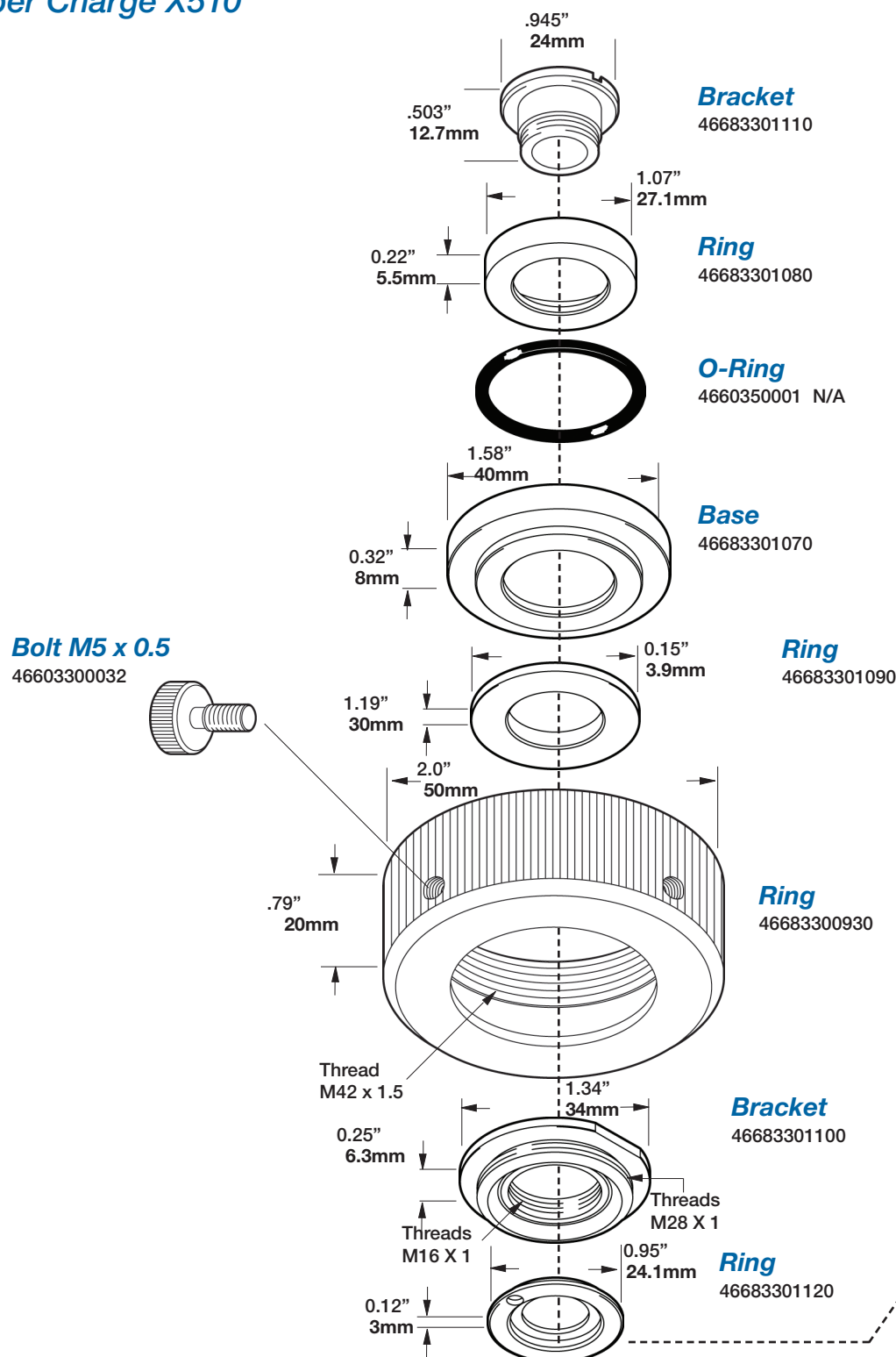


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MAZAK<sup>®</sup>

## Super Charge X510

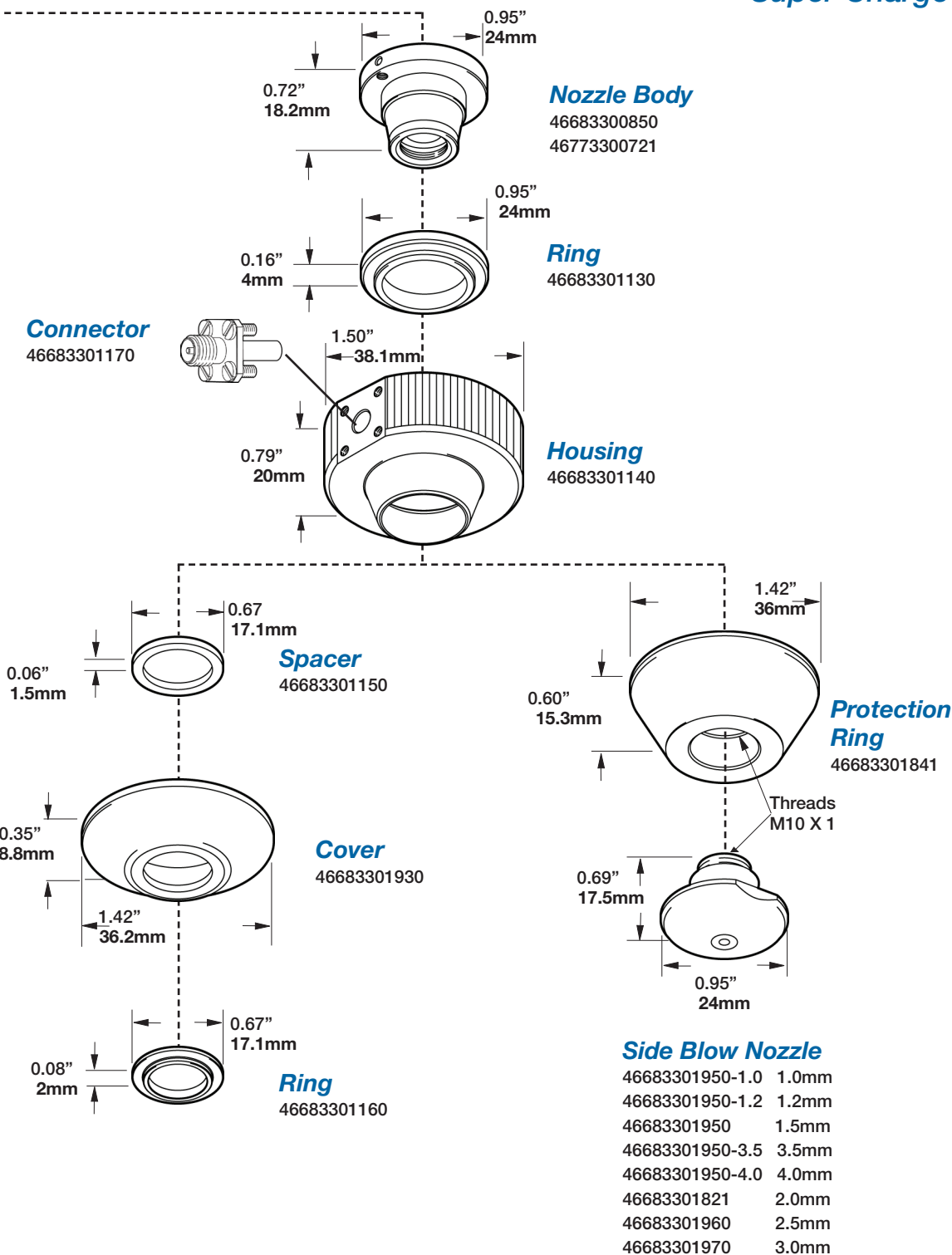
LASER



Continued on next page



**Super Charge X510**



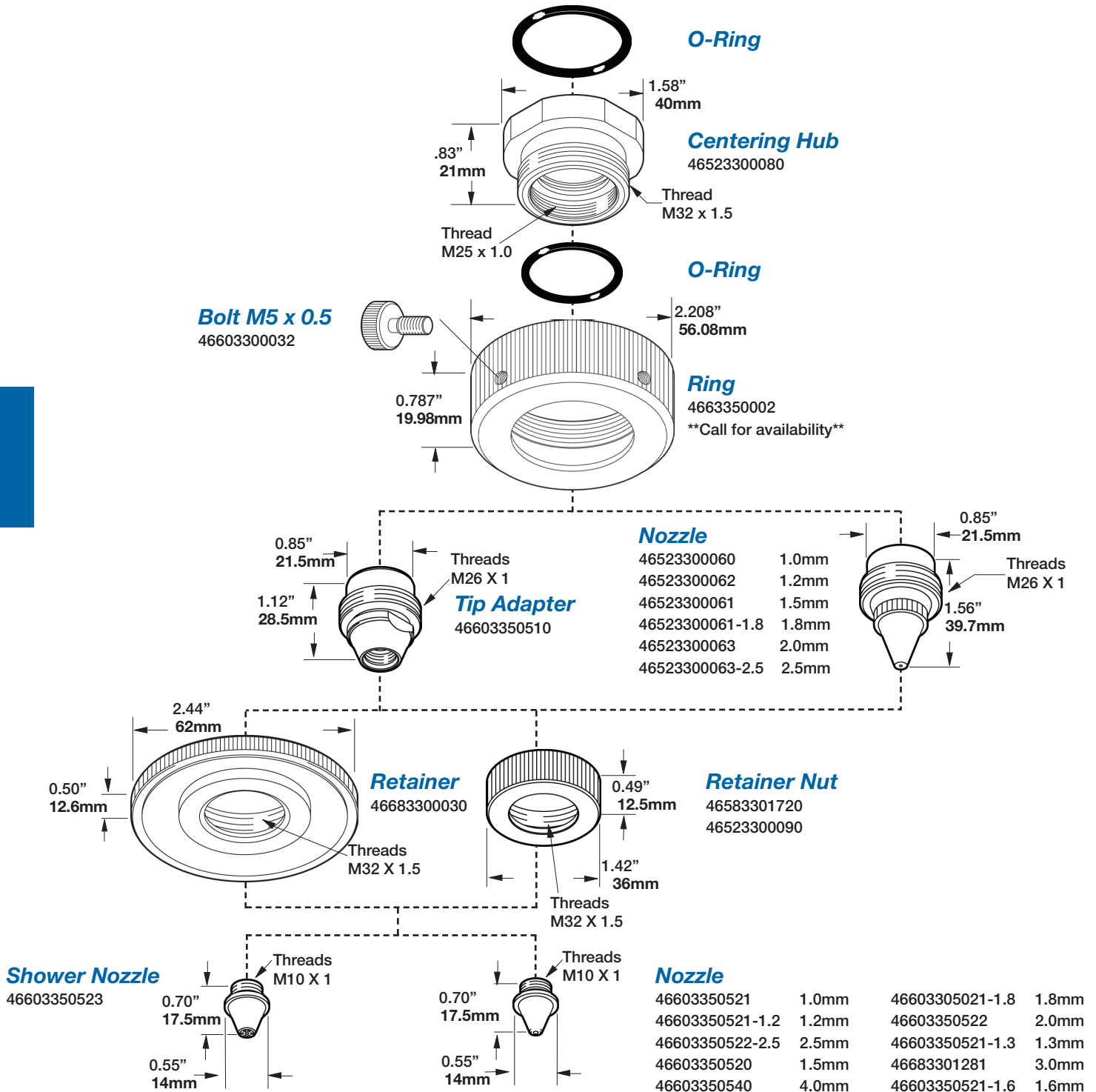
**LASER**

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MAZAK®

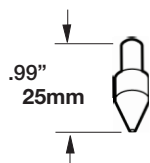
## Turbo 10KW

LASER



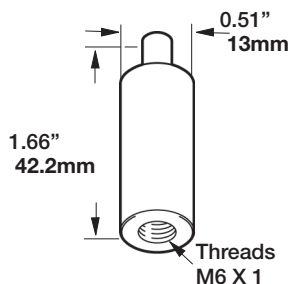
**Table Pin**

46600030013



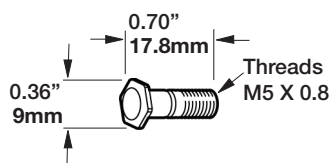
**Stylus Pin**

46522300242



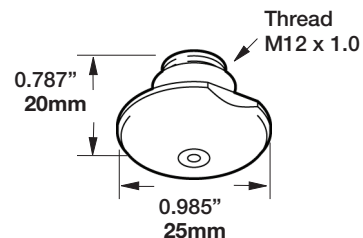
**Shear Pin**

46654801053

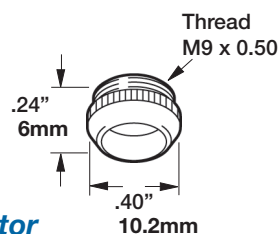


**Nozzle**

46143304450	1.5	46143304480	2.5
46143304460	2.0	46143304490	3.0
46143304470	1.2		



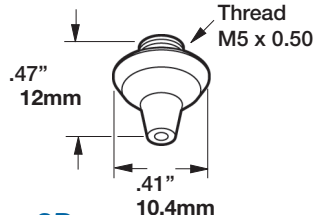
HNZ



**Insulator**

46713300320

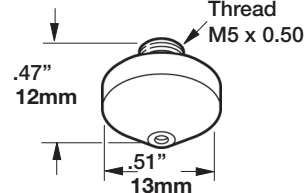
HNZ



**Tip, Cu - 3D**

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

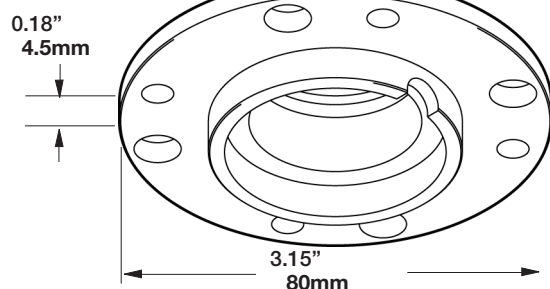
HNZ



**Tip, Cu - 2D**

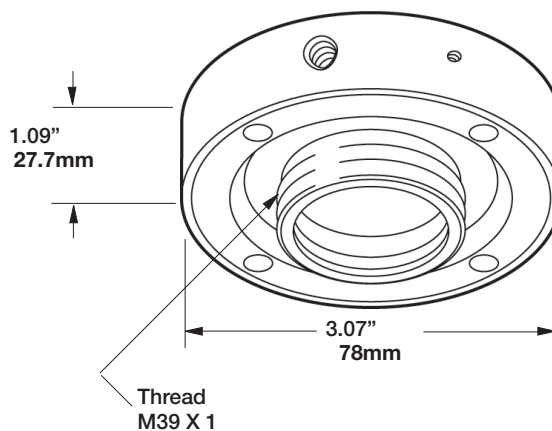
46713300300	2.0mm
46713300310	1.5mm
46713300440	3.0mm

LASER



**Aluminum Base**

36623300700



**Base**

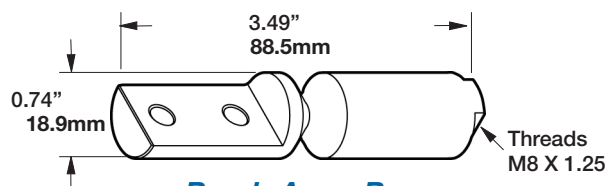
36564800714
36564801270

**Not Shown**

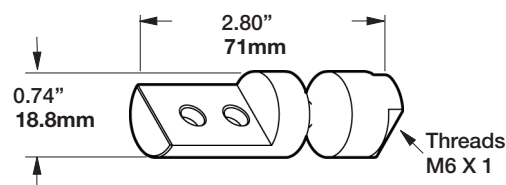
46683301980	Cable
56743300500-Rebuild	Sensor Rebuild HNZ

40

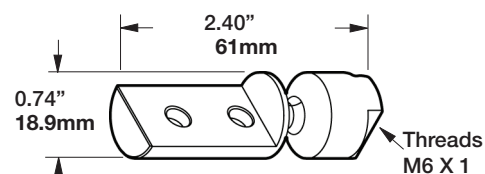
MAZAK®

**Break-Away Bar**

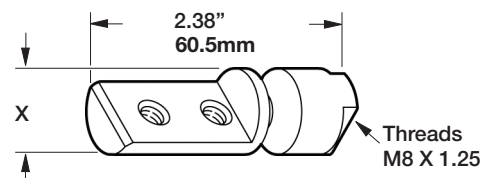
36602300230 1.5KW  
36602300550 2.0KW

**Break-Away Bar**

46572301013

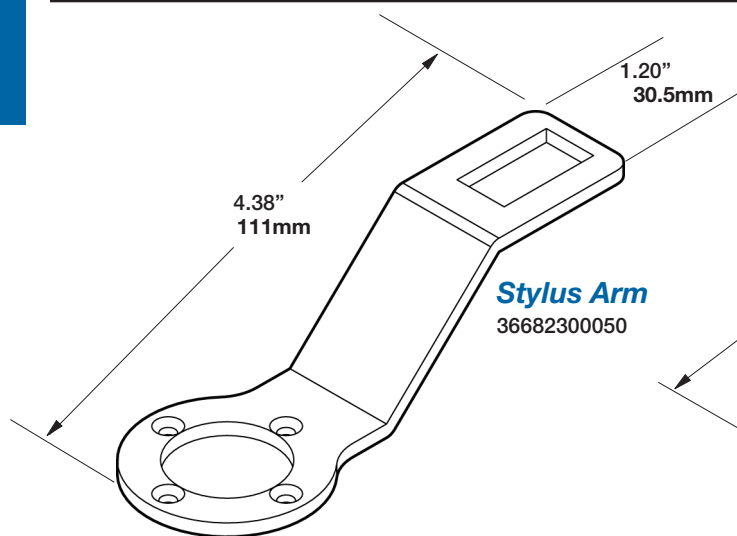
**Break-Away Bar**

36572301012 1.0KW  
46522300241

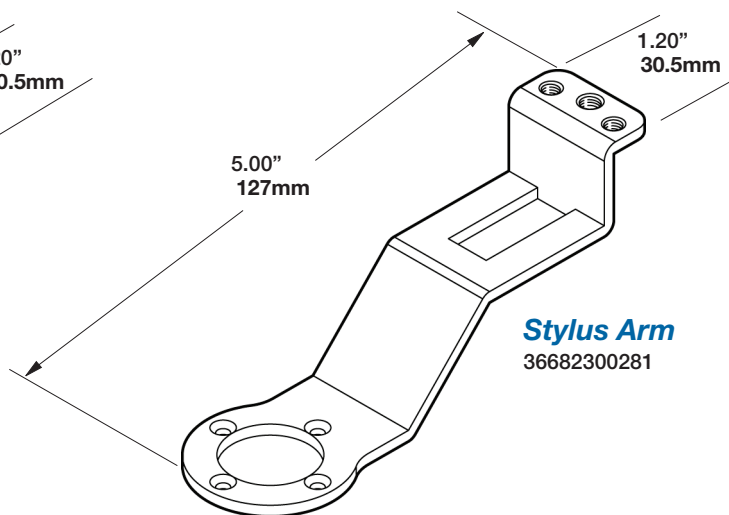
**Break-Away Bar** - X Dimension

36682300280	.79	19.9mm
36673300280	.73	18.6mm

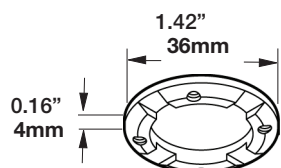
LASER

**Stylus Arm**

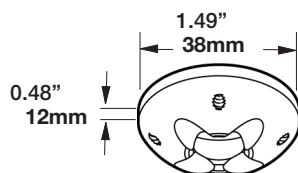
36682300050

**Stylus Arm**

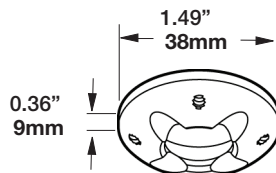
36682300281

**Stylus Foot 1KW**

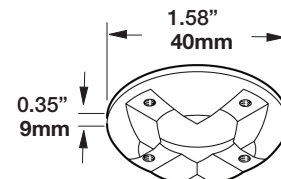
46512300520

**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"

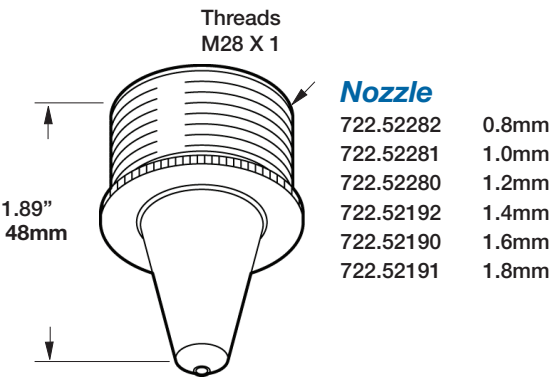
### Protective Windows

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

LASER

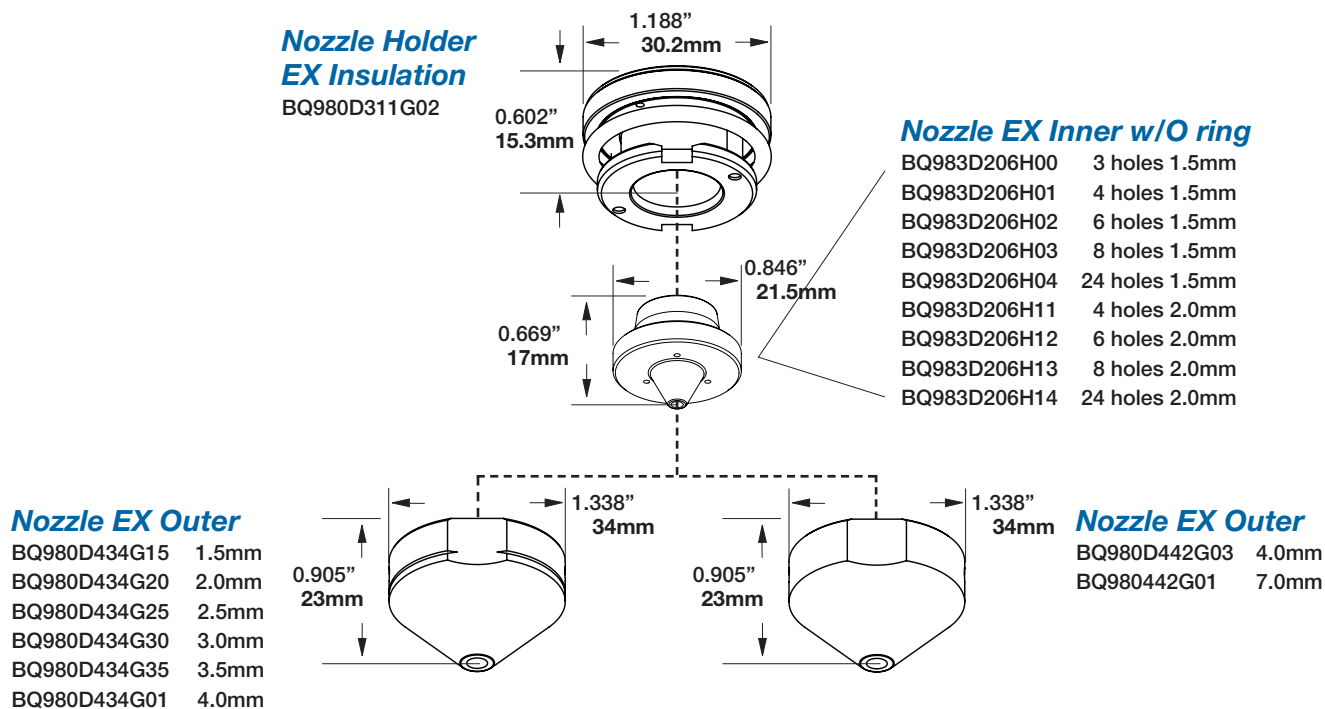
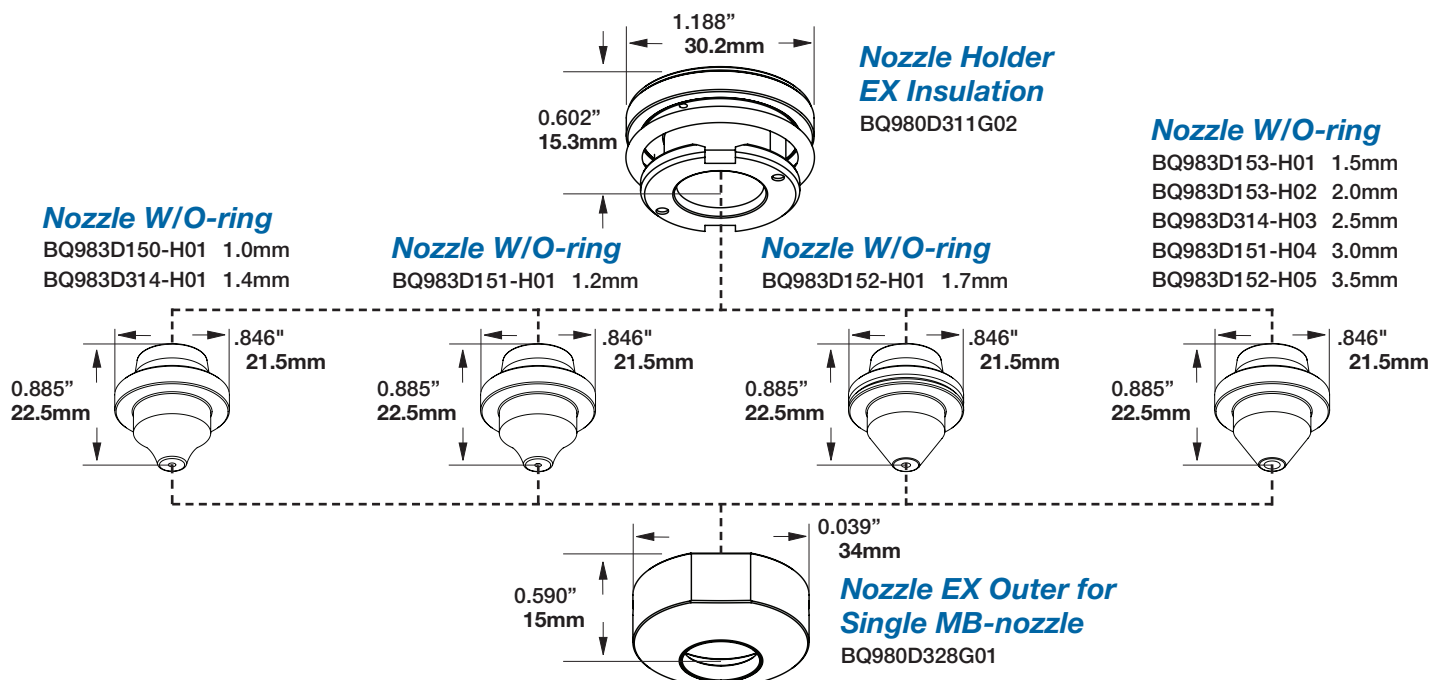
42  
MG<sup>®</sup>

MESSER



LASER



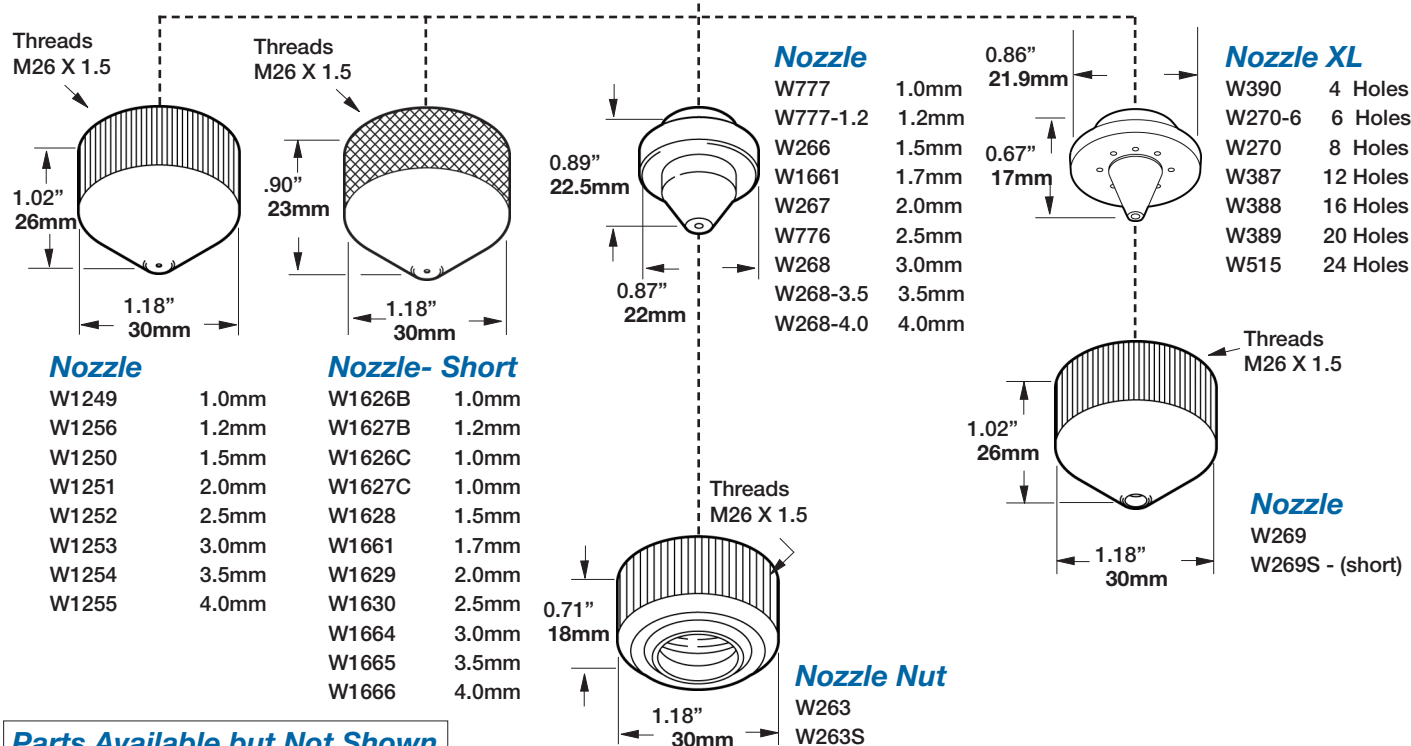
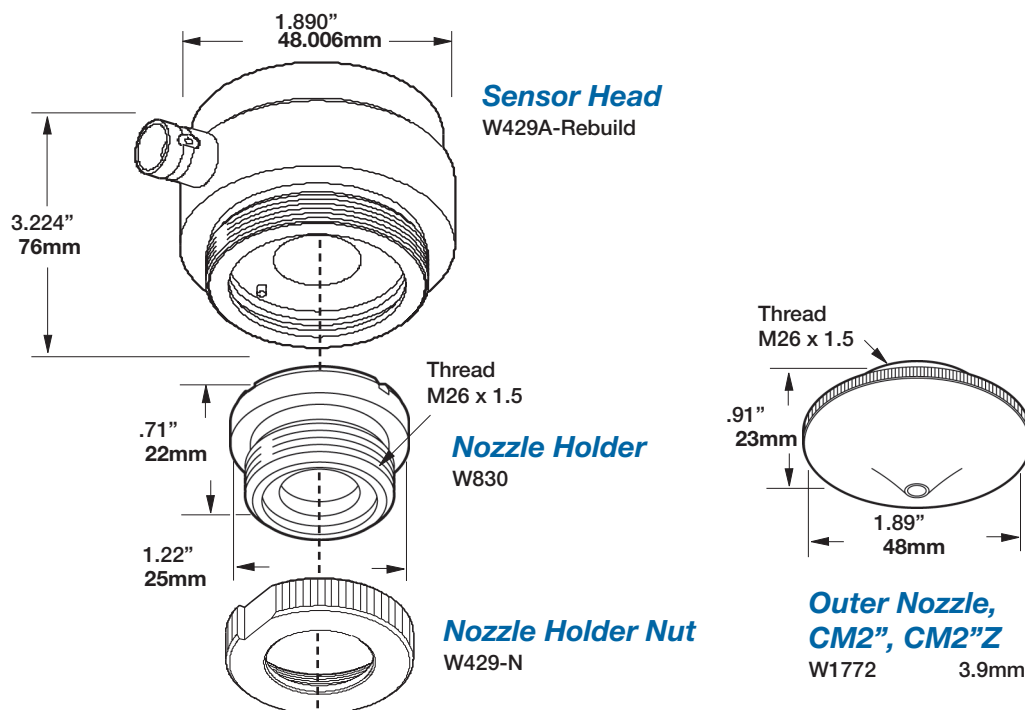


44

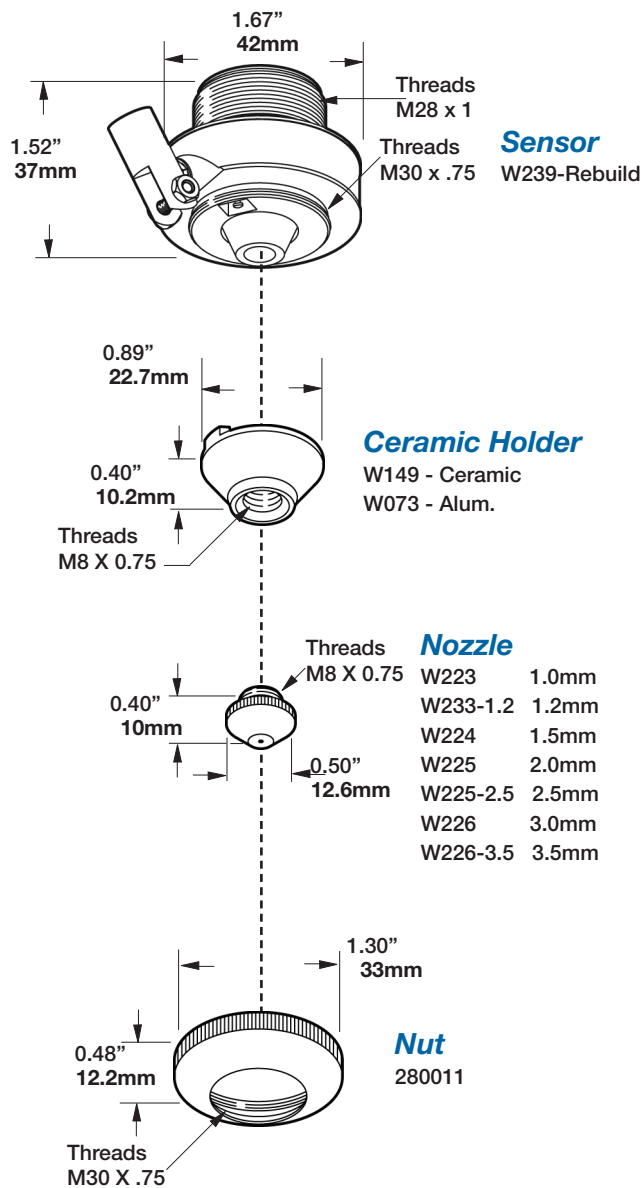
MITSUBISHI®

LX/LXP

LASER

**Parts Available but Not Shown**

W1075	90° BNC Adapter
W812A	BNC Cable



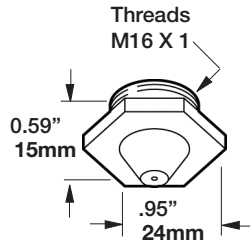
46

**mitsubishi®**

Contact Head

**Nozzle**

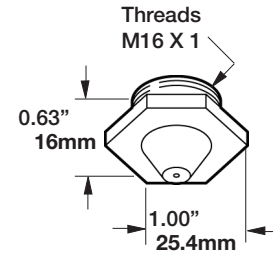
W001-1.0A	1.0mm
W001-A	1.5mm
W002-A	2.0mm
W002-2.5A	2.5mm
W003-A	3.0mm



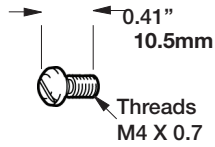
Contact Head

**Nozzle**

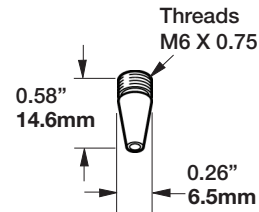
W001-1.0	1.0mm
W001	1.5mm
W002	2.0mm
W002-2.5	2.5mm
W003	3.0mm

**Screw**

W104

**Nozzle**

W400


**LASER**

5.10"  
129.5mm
**Small Spoon**

W004

5.30"  
134.6mm
**Large Spoon**

W165

## OPTICS FOR MITSUBISHI® LASERS

### Focusing Lenses

P/N	Lasertec P/N	Material	Diameter	Focal Length	Edge Thickness
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

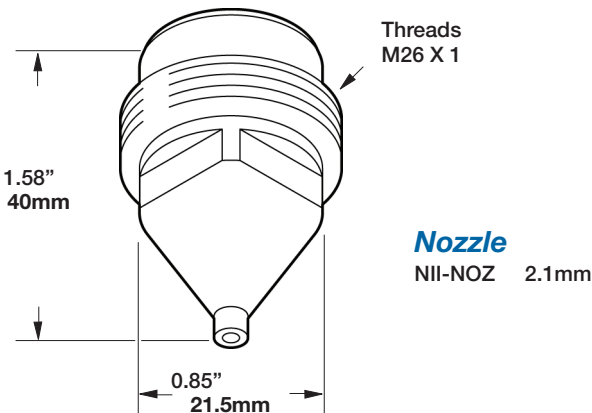
P/N	Material	Diameter	Edge Thickness
632336-117	FS	25.4mm	5mm
633744-137	FS	50mm	8mm

LASER

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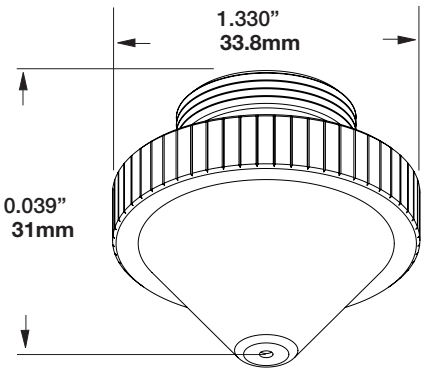
NIIGATA® / NTC® / BEYELER®

NIIGATA®



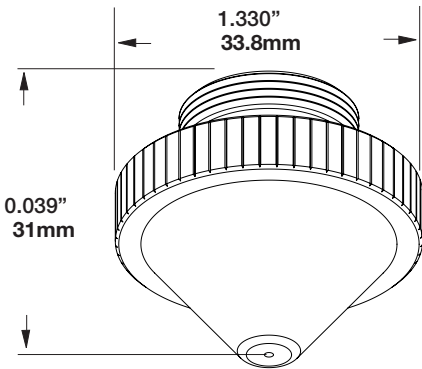
LASER

NTC® / BEYELER®



**Nozzle**

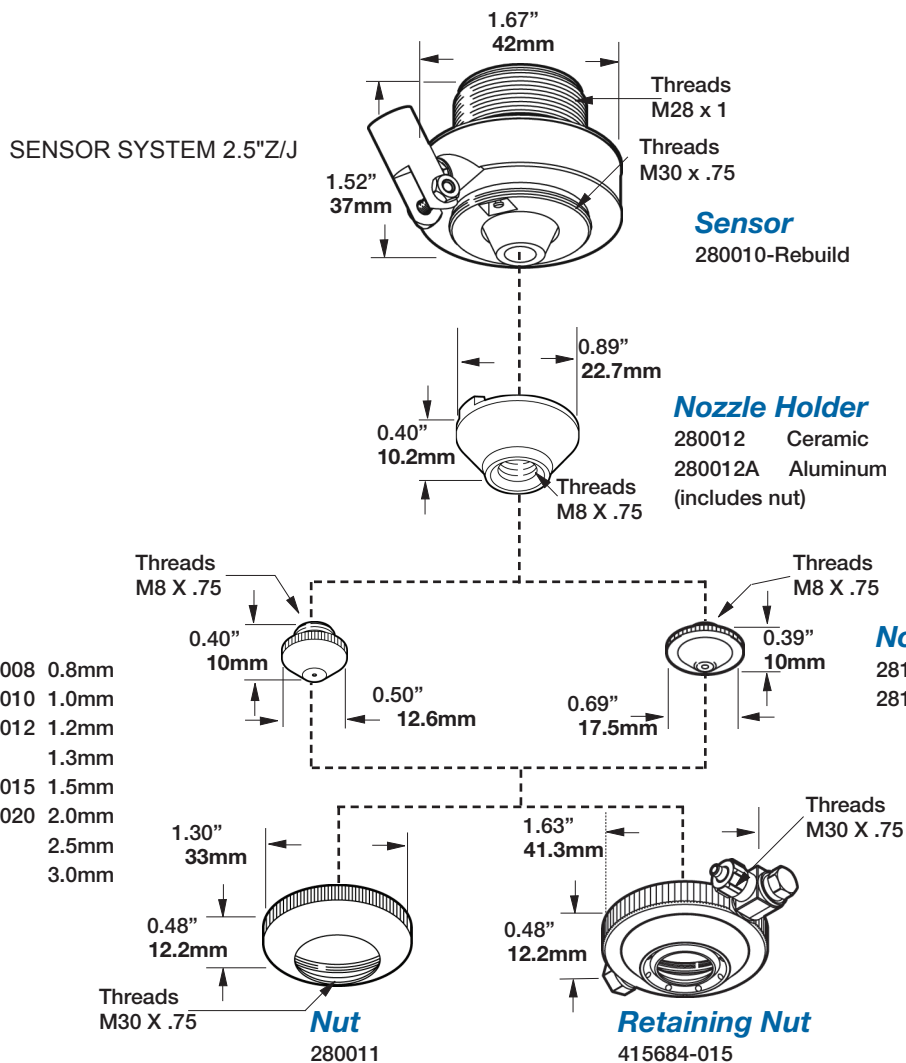
NTC - L10C	1.0mm
NTC - L12C	1.2mm
NTC - L15C	1.5mm
NTC - L20C	2.0mm
NTC - L30C	3.0mm
NTC - L40C	4.0mm



**Nozzle**

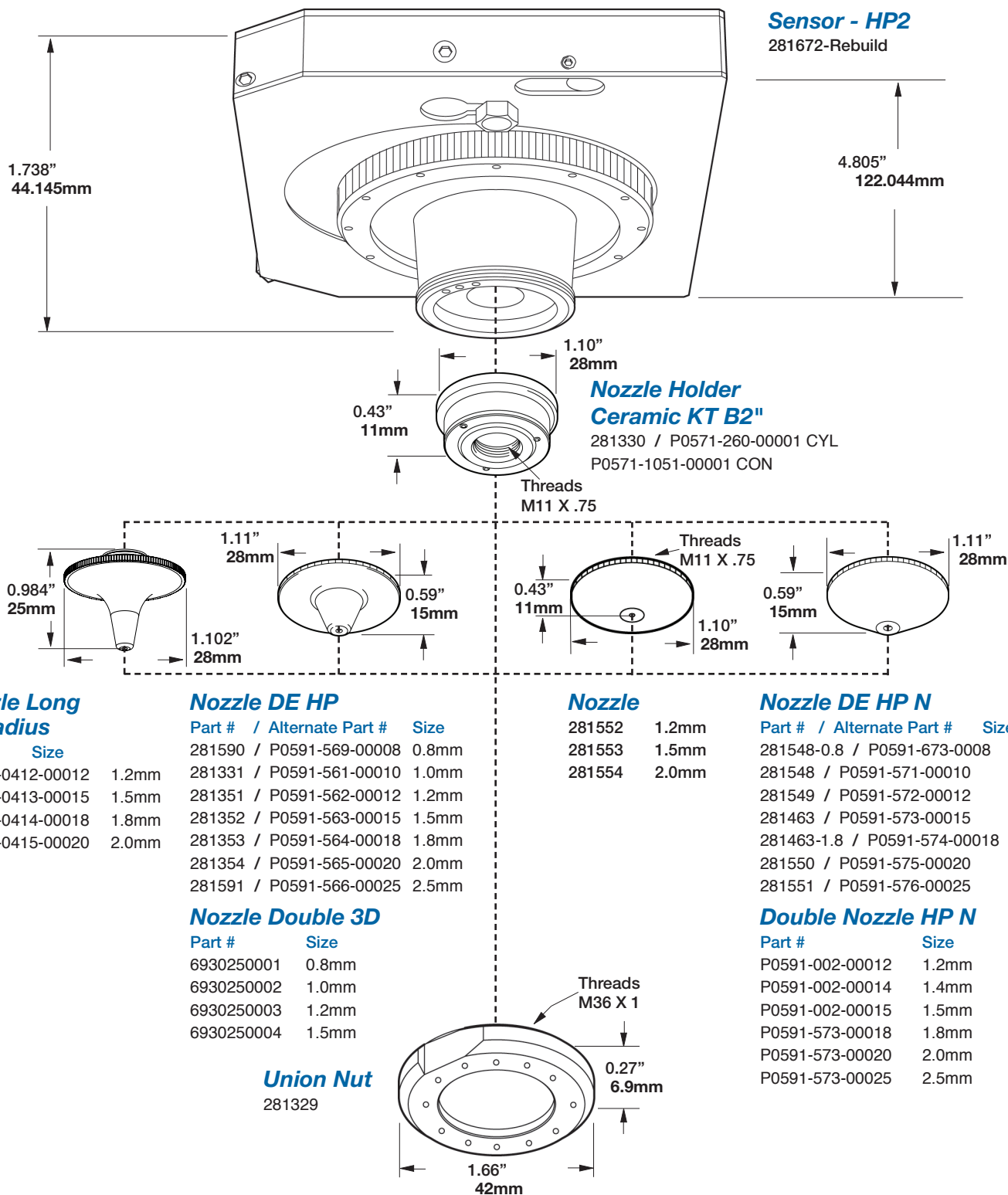
NTC - G15C	1.5mm
NTC - G20C	2.0mm
NTC - G30C	3.0mm
NTC - S15B	special





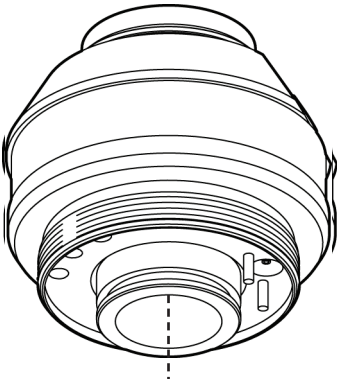
50

PRECITEC®

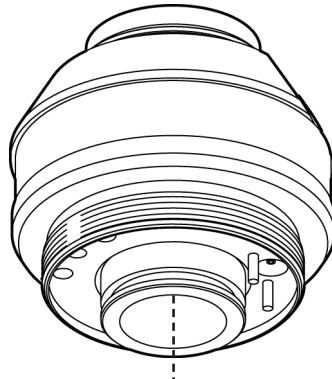


## Sensor System 5"DXN

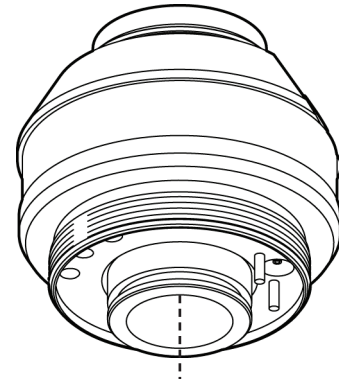
**5" DX  
Sensor Head**  
280033-Rebuild



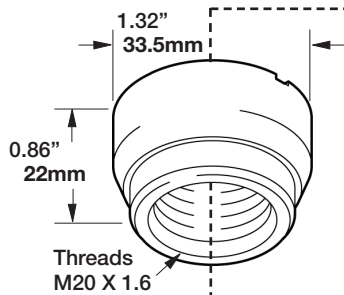
**5" DXN  
Sensor Head**  
280948-Rebuild



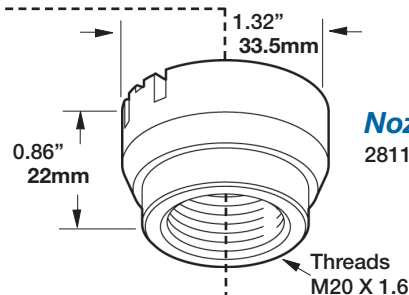
**M1.5/DZ  
Sensor Head**  
281145-Rebuild /  
P0380-110-00002-Rebuild



**Nozzle Holder**  
280565  
280831 (5"DX)

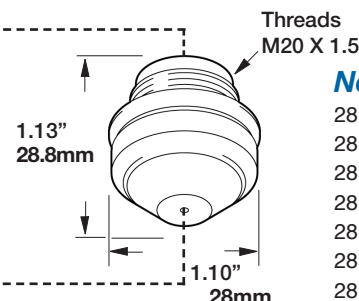
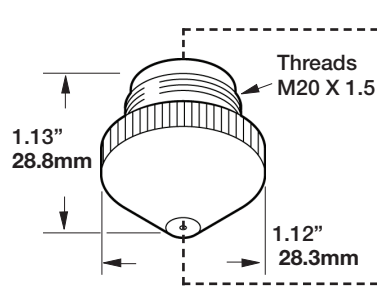


**Nozzle Holder**  
281146 / P0380-211-00001



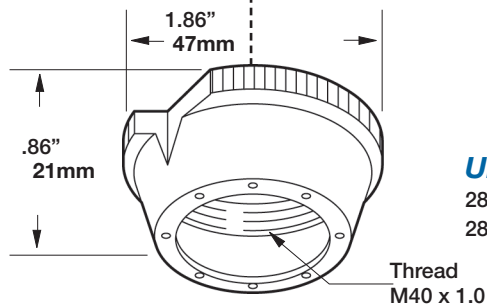
### Nozzle Non-Contact

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

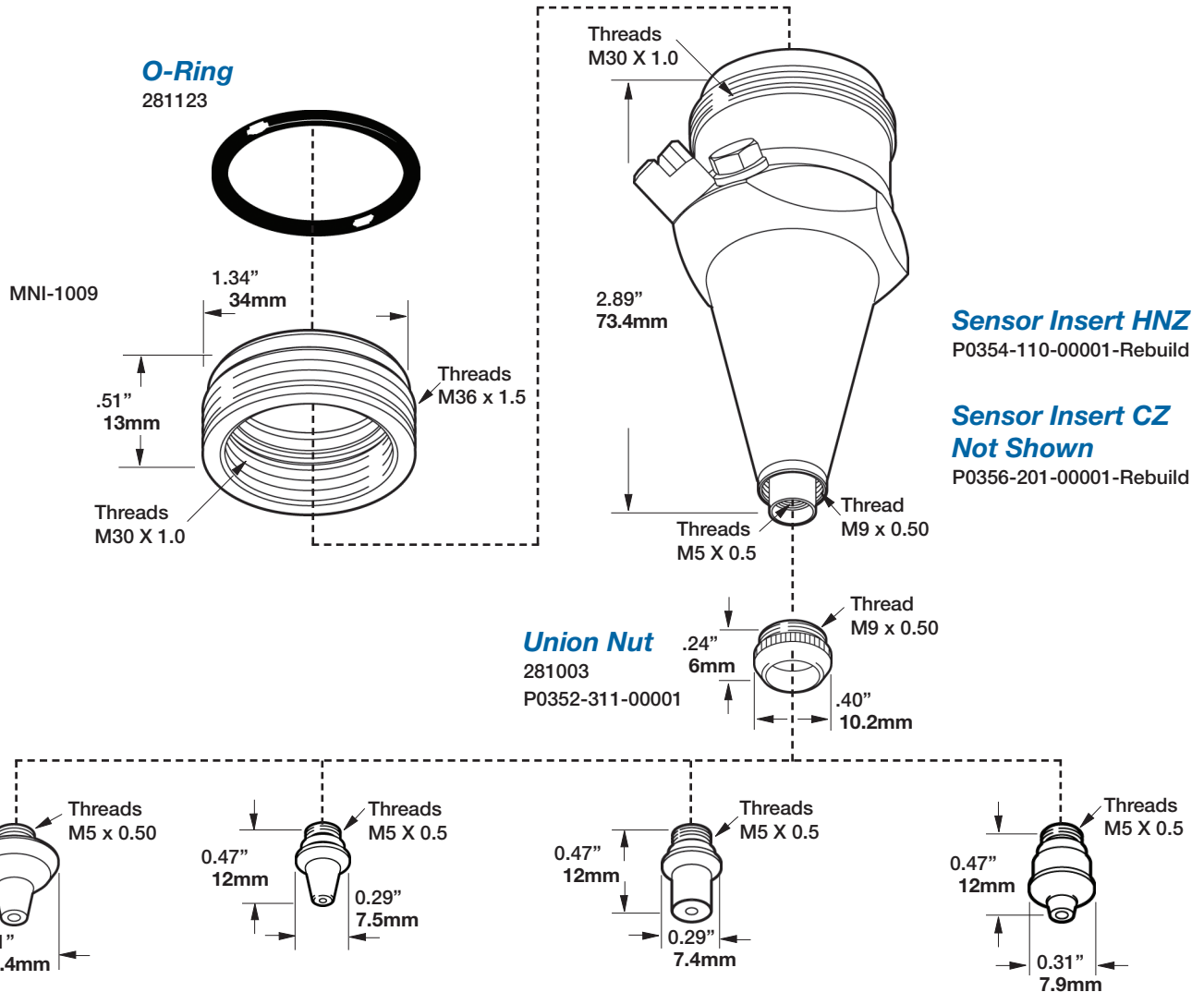
280566  
280025 (5"DX)

LASER

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PRECITEC®

## 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**

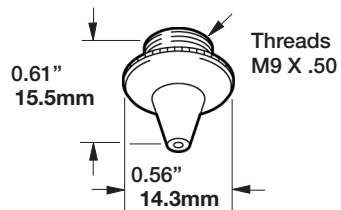
281006 / P0352-333-00010 1.0mm  
281030 / P0352-334-00012 1.2mm  
281031 / P0352-335-00015 1.5mm  
280898 / P0352-336-00018 1.8mm  
P0352-336-0002 2.0mm

**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



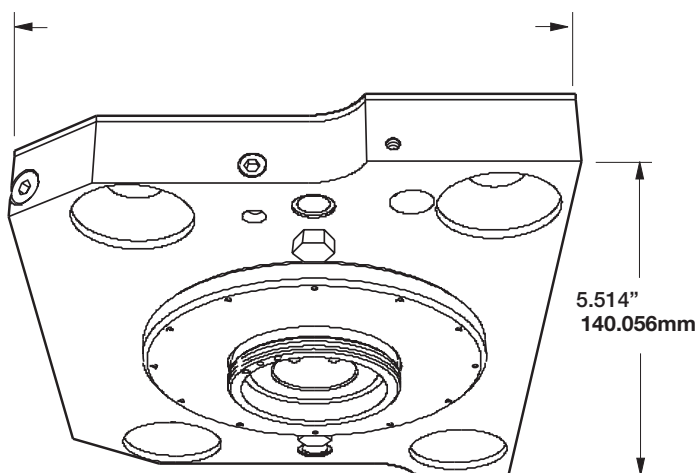
**Nozzle**

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

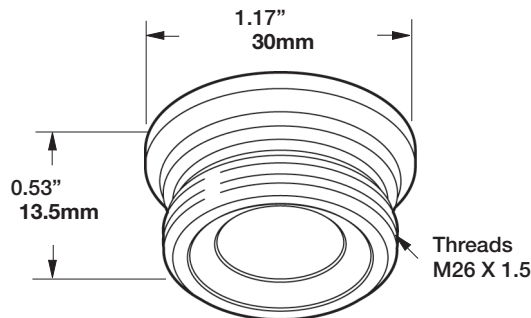
**Parts Available but Not Shown**

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	

LASER



**Sensor - HP2MZ**  
P0594-820-00001-Rebuild



**Nozzle Holder  
Aluminum**  
P0594-860-00001

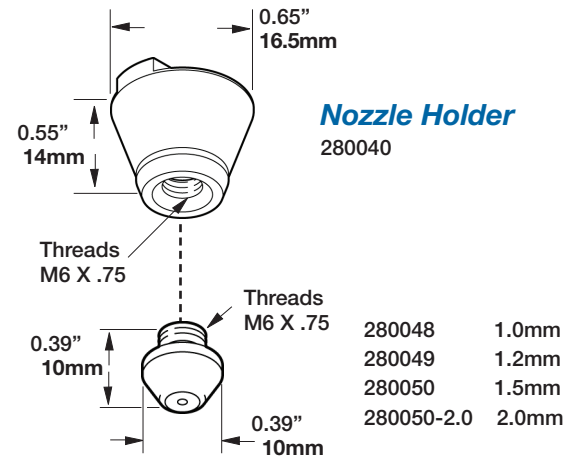
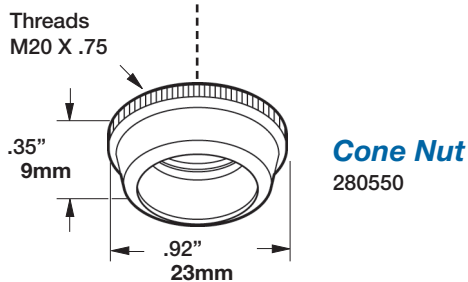
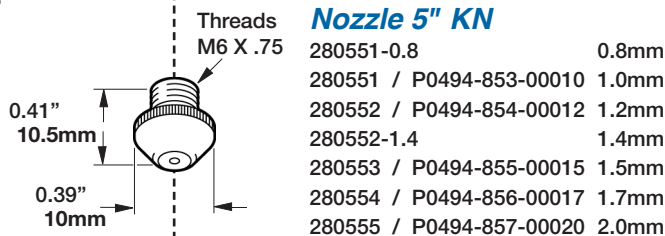
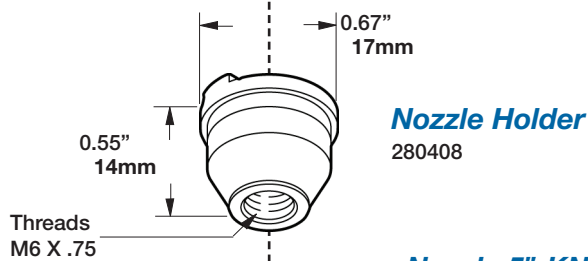
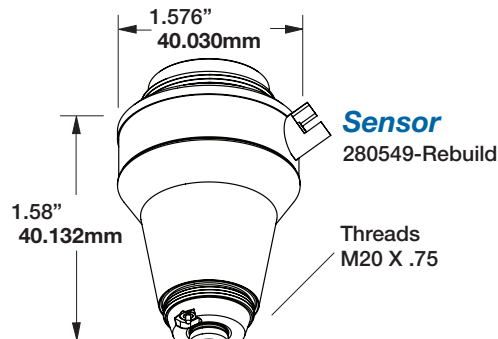


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PRECITEC<sup>®</sup>

## SENSOR SYSTEM 5"KN

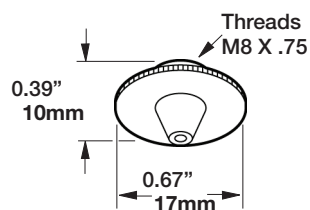
## SENSOR SYSTEM 5"K

**Parts Available but Not Shown**

280042-Rebuild    Sensor  
280041              Cone Nut



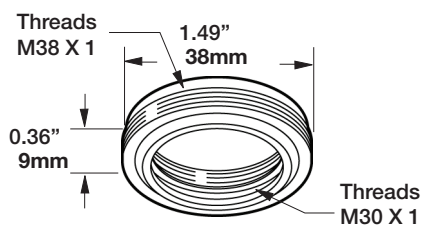
**SCL**



**Nozzle**

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

**KN, DZ, DXN, DX**



**Insulator**

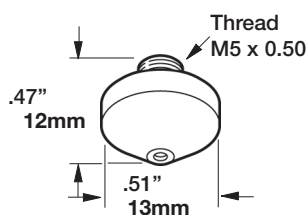
280064

**YK52**



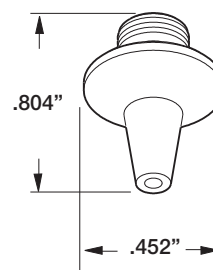
**Nozzle**

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

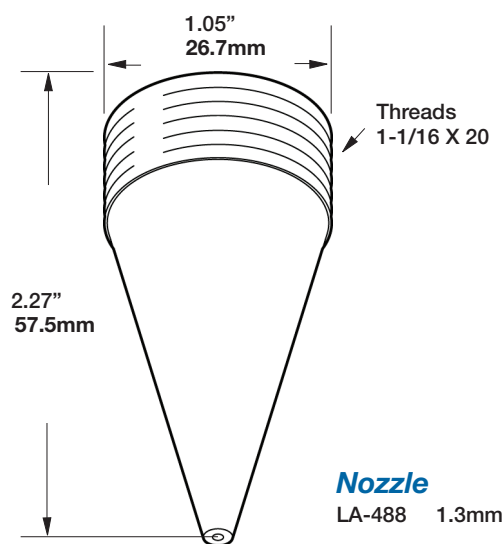
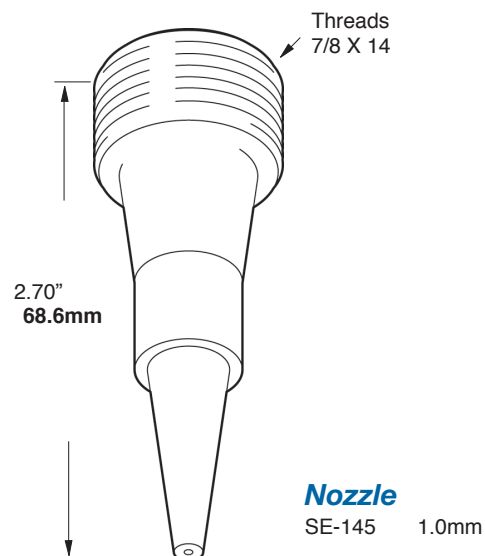
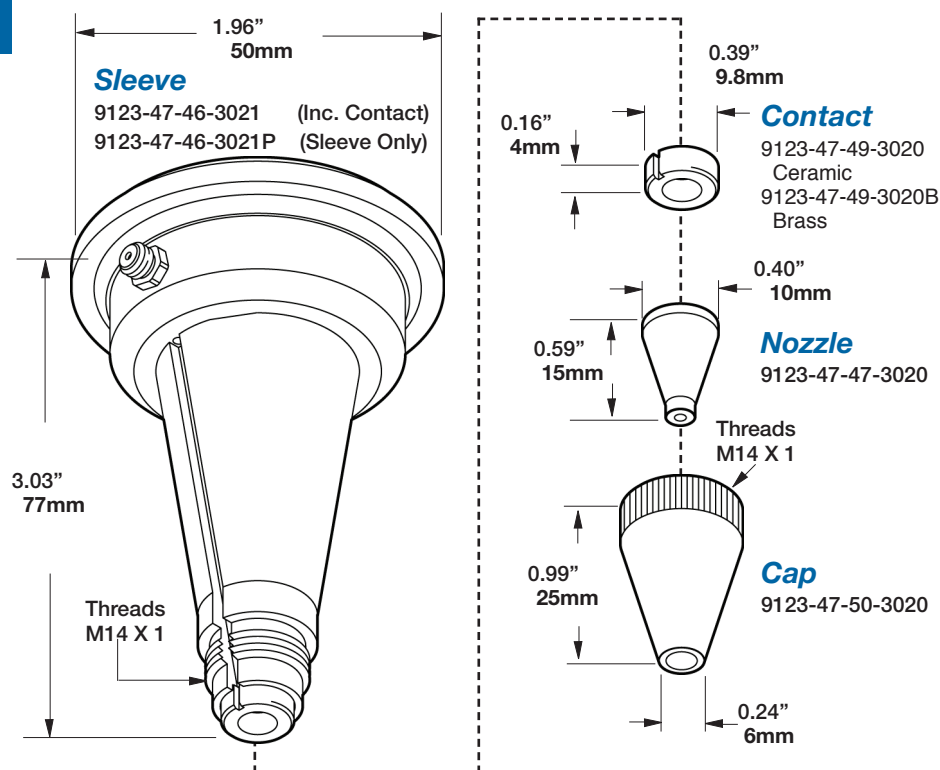
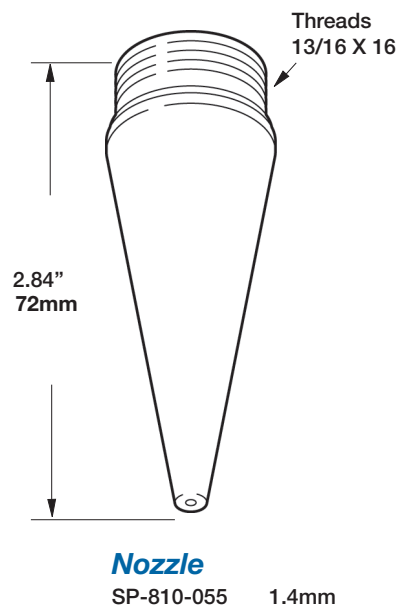
LASER

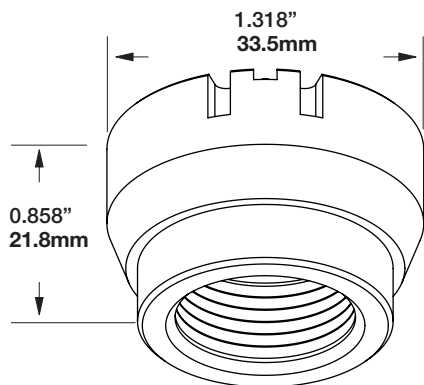
**OPTICS FOR PRECITEC® LASERS**

**Protective Windows**

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

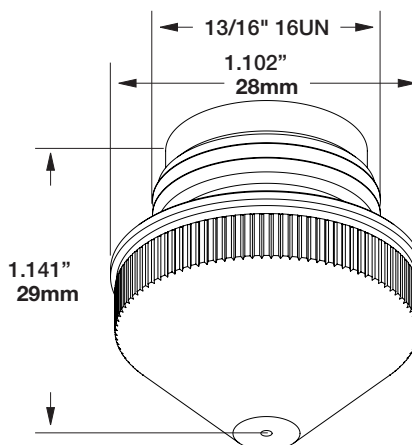
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**RAYTHEON® / ROFIN SINAR® / SHIBUYA® / SPECTRA PHYSICS®**
**RAYTHEON®**

**ROFIN SINAR®**

**SHIBUYA®**

**SPECTRA PHYSICS®**

**LASER**



**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

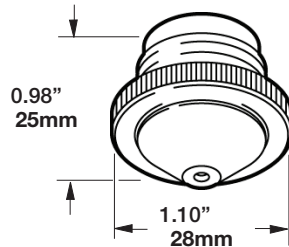
**LASER**

**OPTICS FOR SALVAGNINI® LASERS**

**Protective Windows**

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

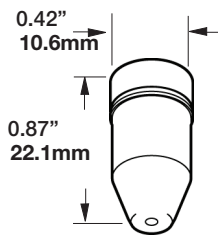
58

**STRIPPIT / LVD<sup>®</sup>****Nozzle Standard**

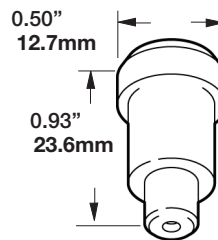
7945470	1.0mm
5241982	1.2mm
7945434	1.5mm
7945452	2.0mm
7945517	2.5mm

**Nozzle High Pressure**

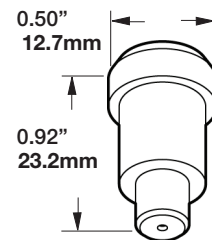
5241862	1.5mm
5241863	1.0mm
5241855	2.0mm
5241856	2.5mm
5241857	3.0mm
5241877	3.5mm
5241878	4.0mm

**LASER****Nozzle**

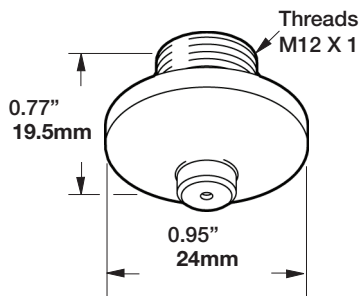
1001019-000	1.0mm
1001020-000	2.0mm

**Nozzle**

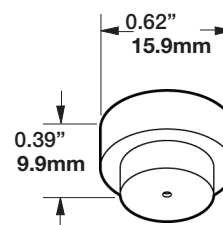
123409-100	2.0mm H.P.
------------	------------

**Nozzle**

123409-000	1.2mm L.P.
------------	------------

**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.

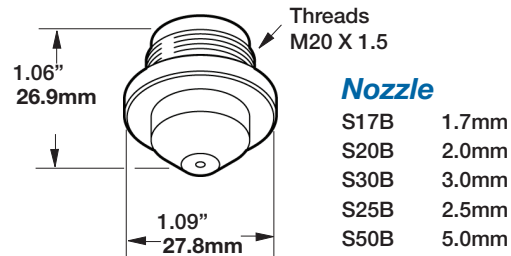
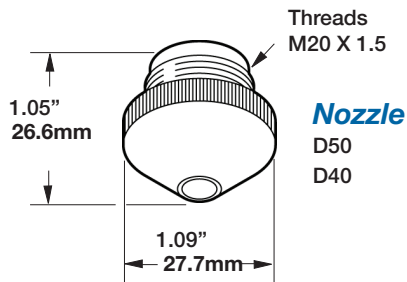
## OPTICS FOR STRIPPIT® / LVD® LASERS

### Focusing Lens

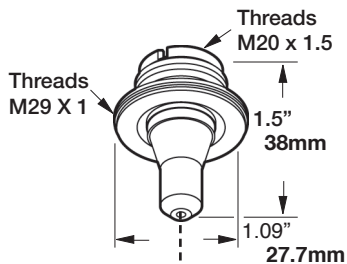
P/N	Lasertec P/N	Material	Diameter	Focal Length	Edge Thickness
0018827-000	ZM15500291	ZnSe	1.5"	5.0"	.291"
0018827-100	ZC15500236	ZnSe	1.5"	5.0"	.236"
0800952-000	ZC15350118	ZnSe	1.5"	3.5"	.118"
1000746-100	ZC15750300	ZnSe	1.5"	7.5"	.300"
1001151-000	ZM15500350	ZnSe	1.5"	5.0"	.350"
1001152-000	ZM15750350	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"

60

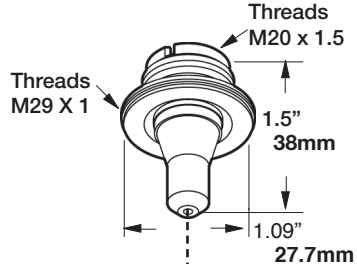
TANAKA®

**Nozzle, Inner**

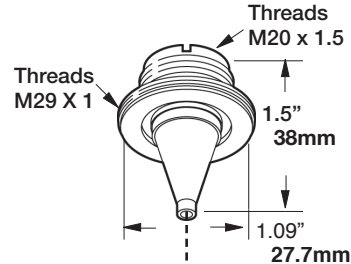
C20D-2  
C20E-2-1.5 1.5mm  
C20E-2 2.0mm

**Nozzle, Inner**

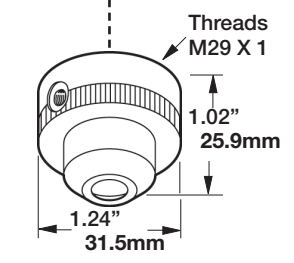
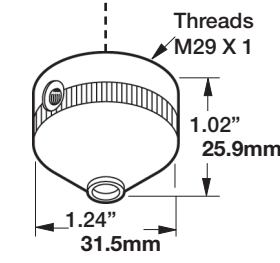
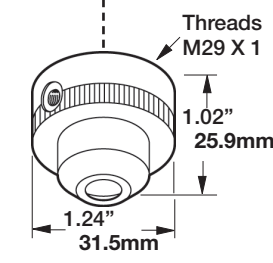
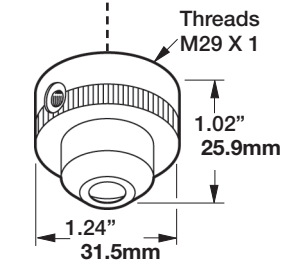
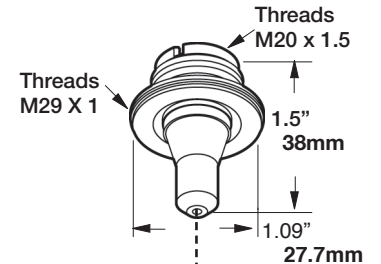
C22D-2

**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.**

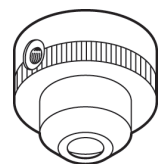
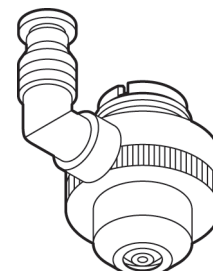
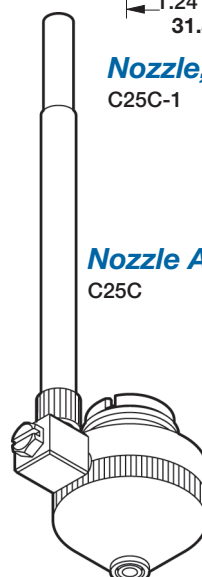
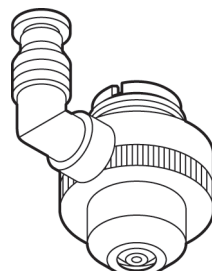
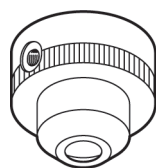
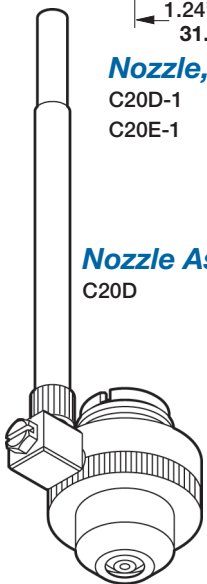
C25C

**Nozzle Assy.**

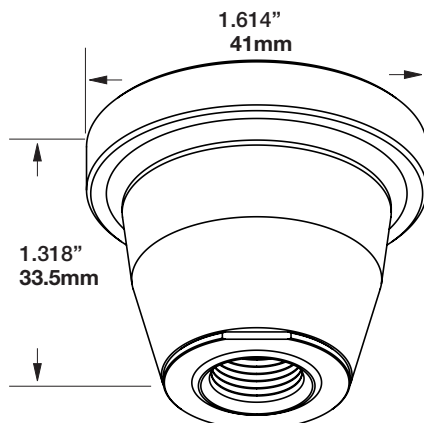
C30D

**Nozzle Assy.**

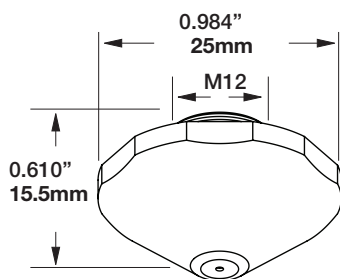
C30E





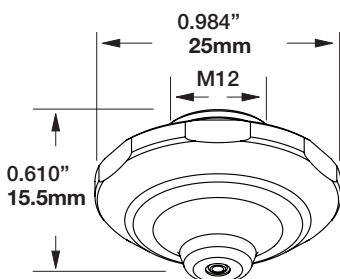


**Nozzle Holder, ceramic**  
1755673



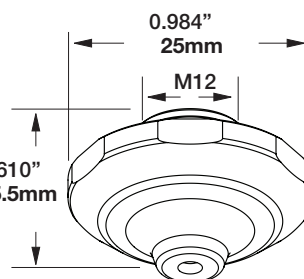
**Nozzle EAA**

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



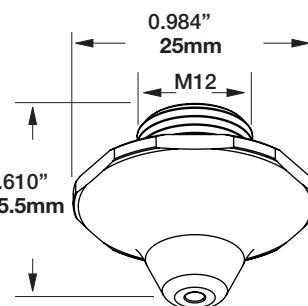
**Nozzle Double EAU**

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



**Nozzle Double EAK**

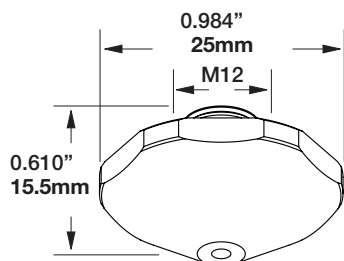
1579549	2.5mm
1579556	3.0mm
1835747	4.0mm



**Nozzle EAB**

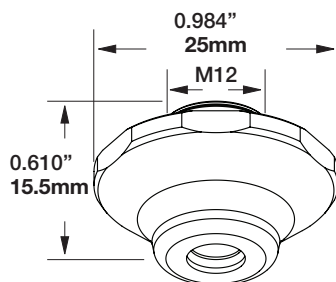
1373324	0.8mm
1373325	1.0mm
1373326	1.2mm
1373327	1.4mm
1373328	1.7mm
1373329	2.0mm
1373330	2.3mm
1373331	2.7mm

**LASER**



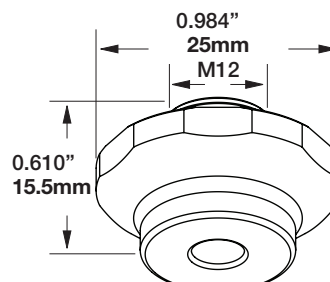
**Nozzle Focusing ZAA-01**

1637264



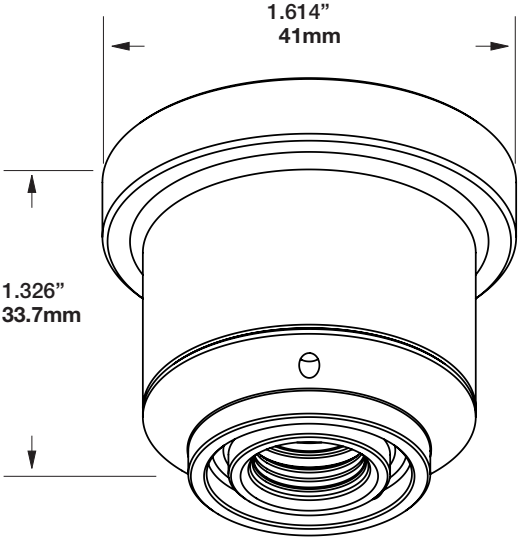
**Nozzle Double EAQ**

1809091	6.0mm
1809421	7.5mm
1886199	9.5mm

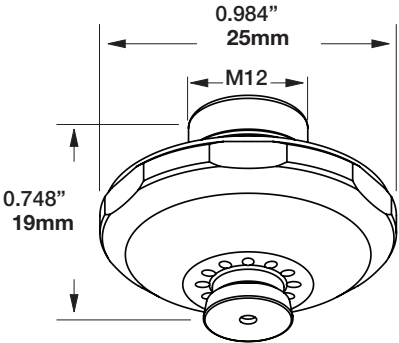


**Nozzle EAC**

1633046 5.3mm



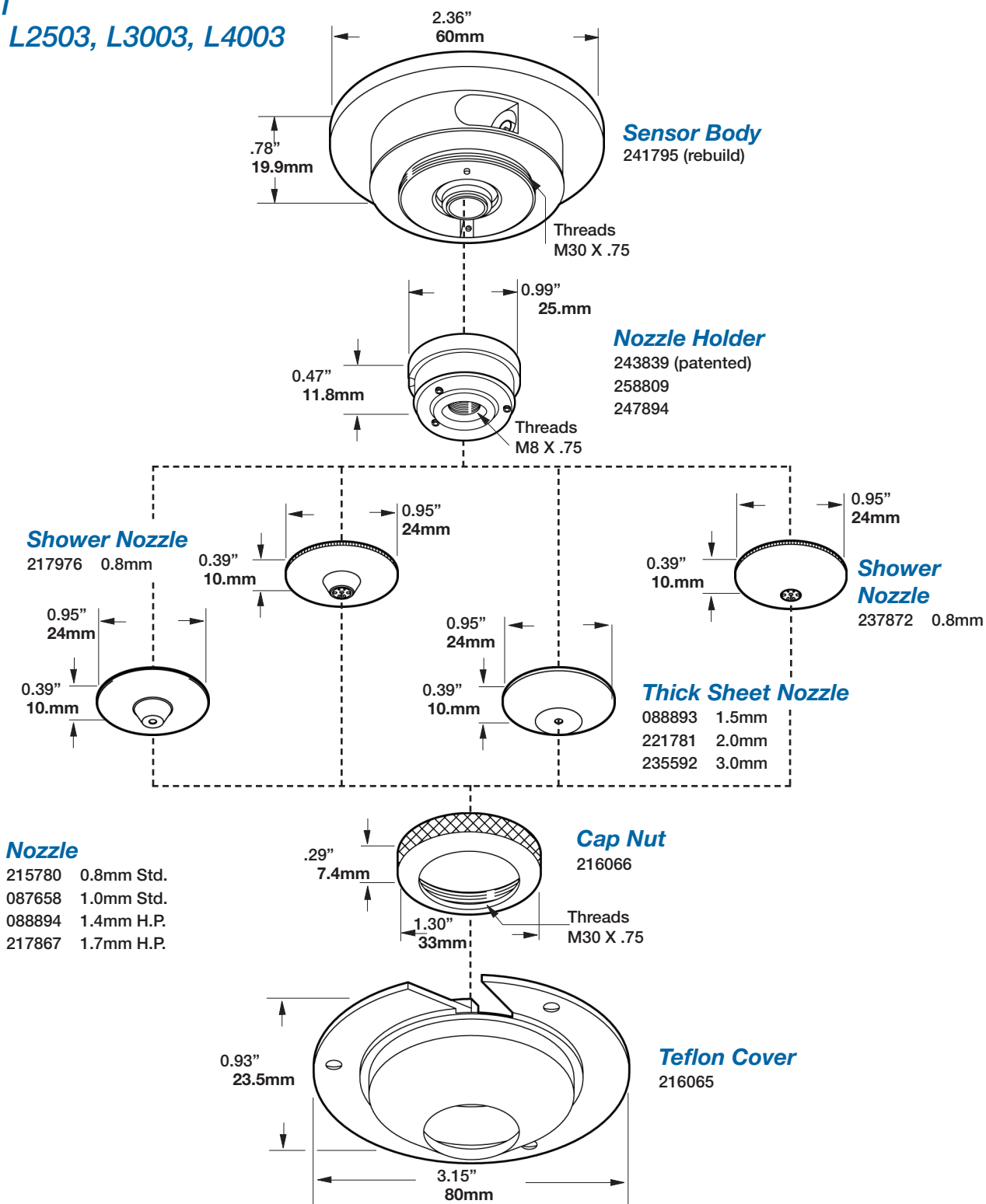
**Nozzle Holder, ceramic**  
1906032



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

## 2.5S/TT

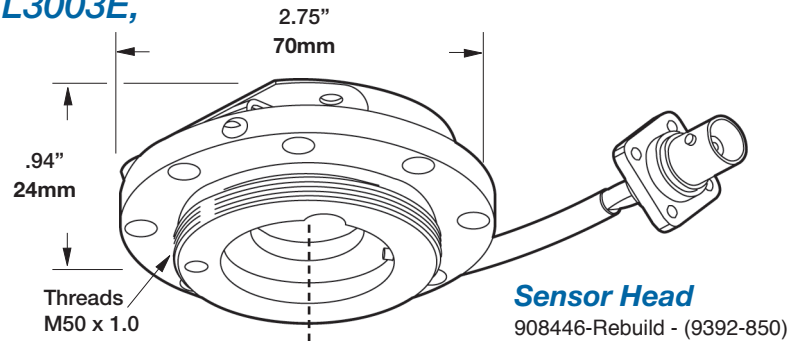
L1003, L2503, L3003, L4003



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TRUMPF®

Trumatic L2530, L3030,  
L4030, L6030, L2503E, L3003E,  
L4003E, TC 600L

**Nozzle Holder**

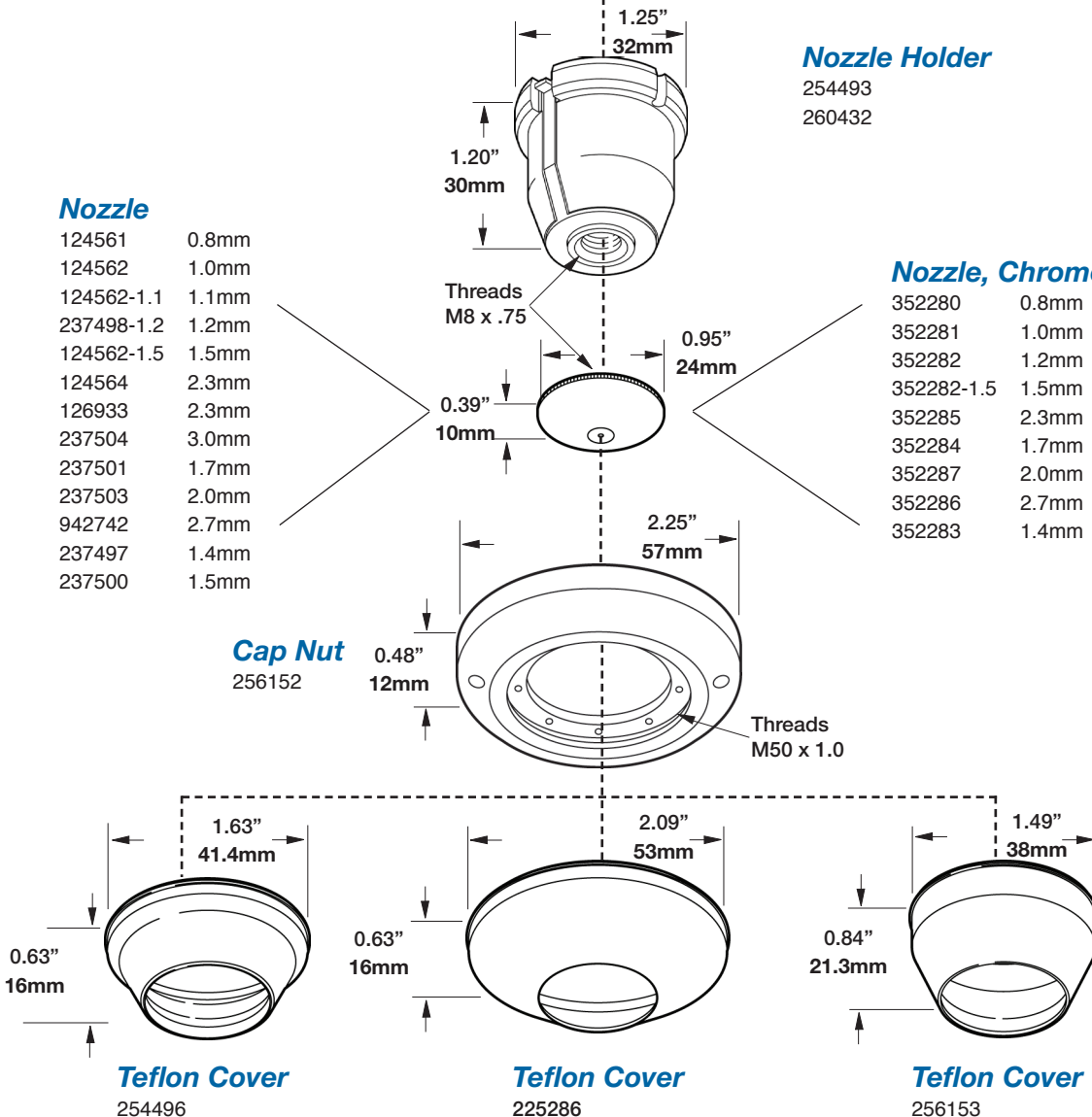
254493  
260432

**Nozzle**

124561	0.8mm
124562	1.0mm
124562-1.1	1.1mm
237498-1.2	1.2mm
124562-1.5	1.5mm
124564	2.3mm
126933	2.3mm
237504	3.0mm
237501	1.7mm
237503	2.0mm
942742	2.7mm
237497	1.4mm
237500	1.5mm

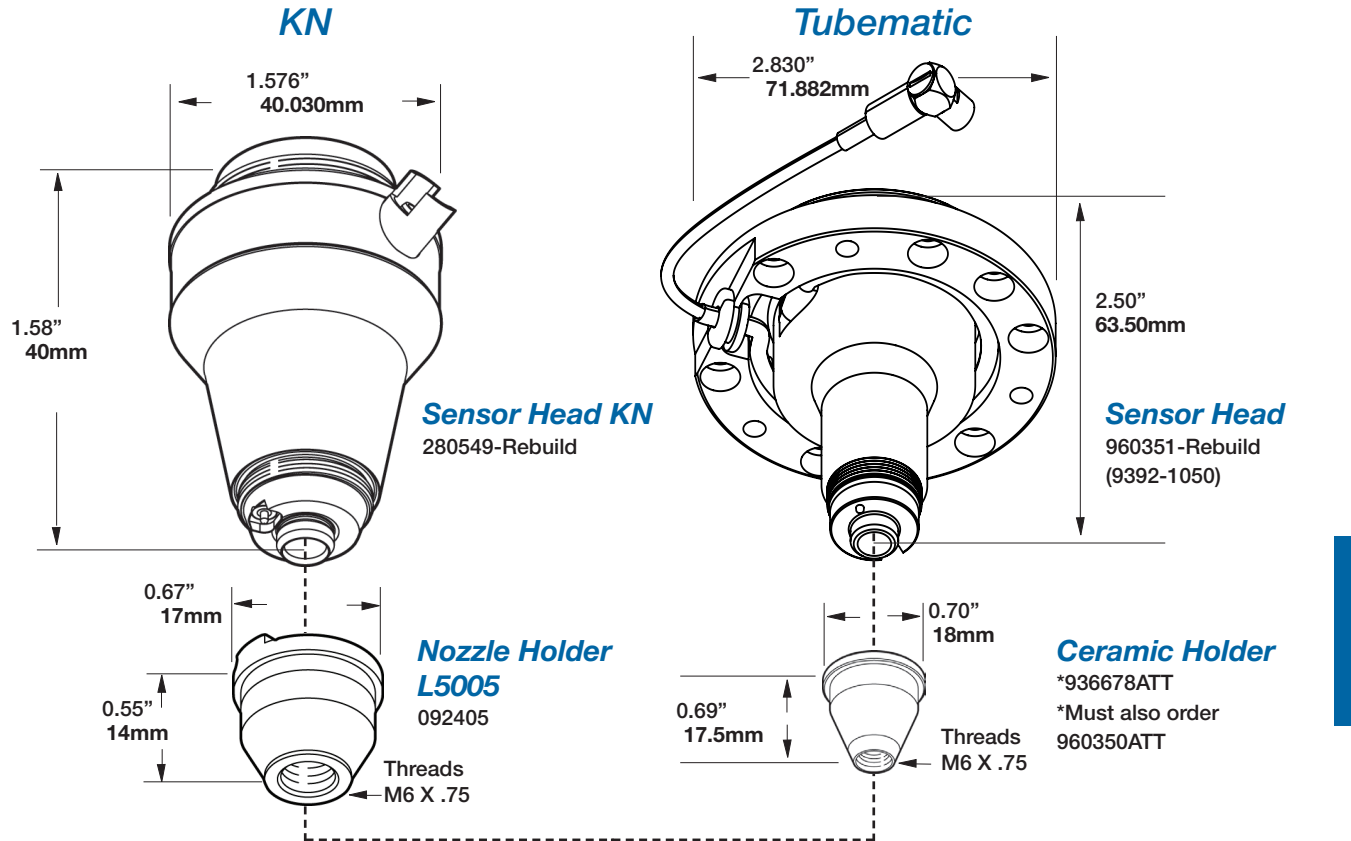
**Nozzle, Chrome**

352280	0.8mm
352281	1.0mm
352282	1.2mm
352282-1.5	1.5mm
352285	2.3mm
352284	1.7mm
352287	2.0mm
352286	2.7mm
352283	1.4mm



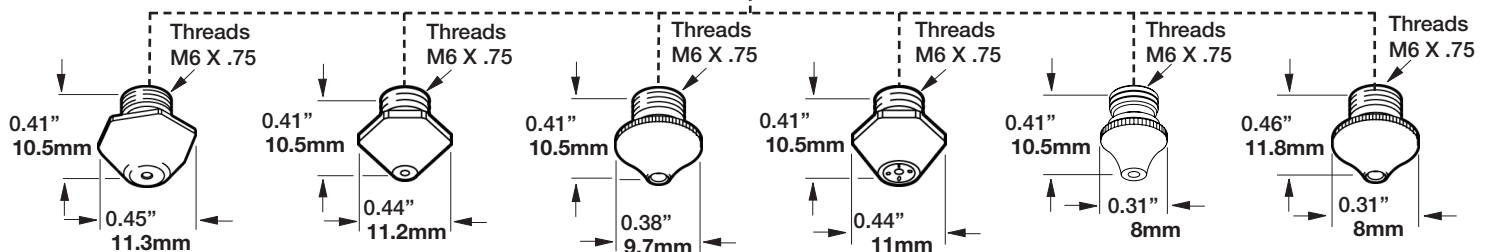
LASER

**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**

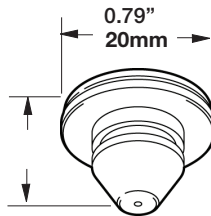
224106	1.6mm
224107	1.8mm
224109	2.0mm
2085524	2.6mm



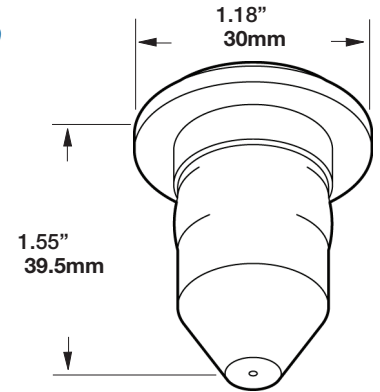
66

TRUMPF<sup>®</sup>
**TC 240, TC 260, TC 300**  
**TrueLaser 3030, 5030, 5040, 5060**
**Punch Press Nozzle**  
**For TC 240, TC 260**

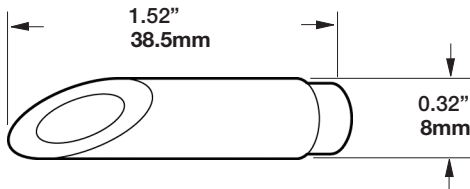
202952	0.8mm Std.
218969	1.0mm Std.
209402	1.4mm H.P.
211533	1.7mm H.P.
217953	1.7mm H.P.


**Nozzle For TC 300**

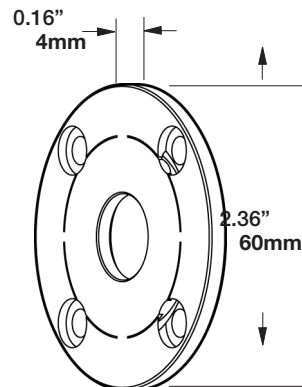
060653-3 1.0mm


**Blow Tube for TC Series**

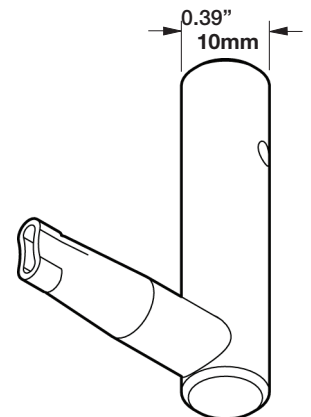
256184


**Cover Plate for TC Series**

234485


**Blow Pipe for TC Series**

088557


**Parts Available but Not Shown**

149884/D5589-801-05000

149951

562311

563983

778560

P0589-400-00001-Rebuild / 778548-Rebuild

P0589-800-00001-Rebuild / 562313-Rebuild

Sensor Cable

Cable MXC

Cable BNC

Cable BNC

Focus Lens Set

Sensor Inert MCX

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

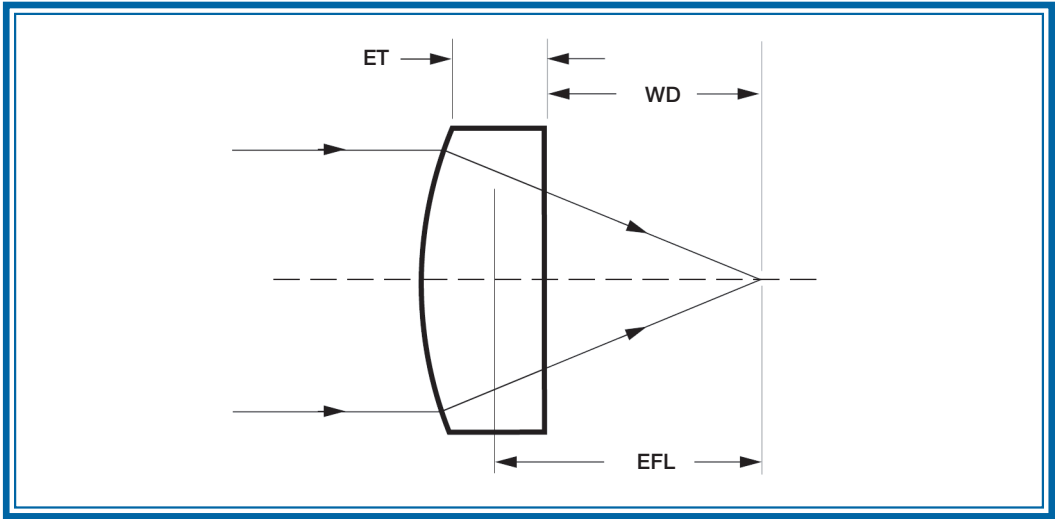
PLANO CONVEX

PLANO CONVEX FOCUSING LENSES

Plano convex lenses are a popular choice in high power CO<sub>2</sub> 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.

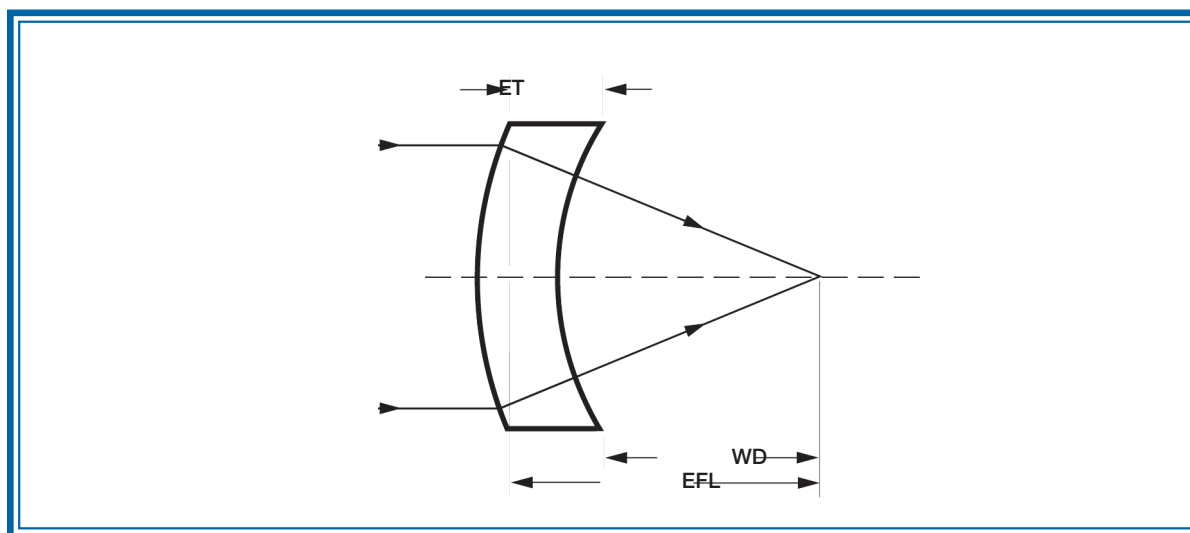
### Standard Specifications:

#### 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.

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