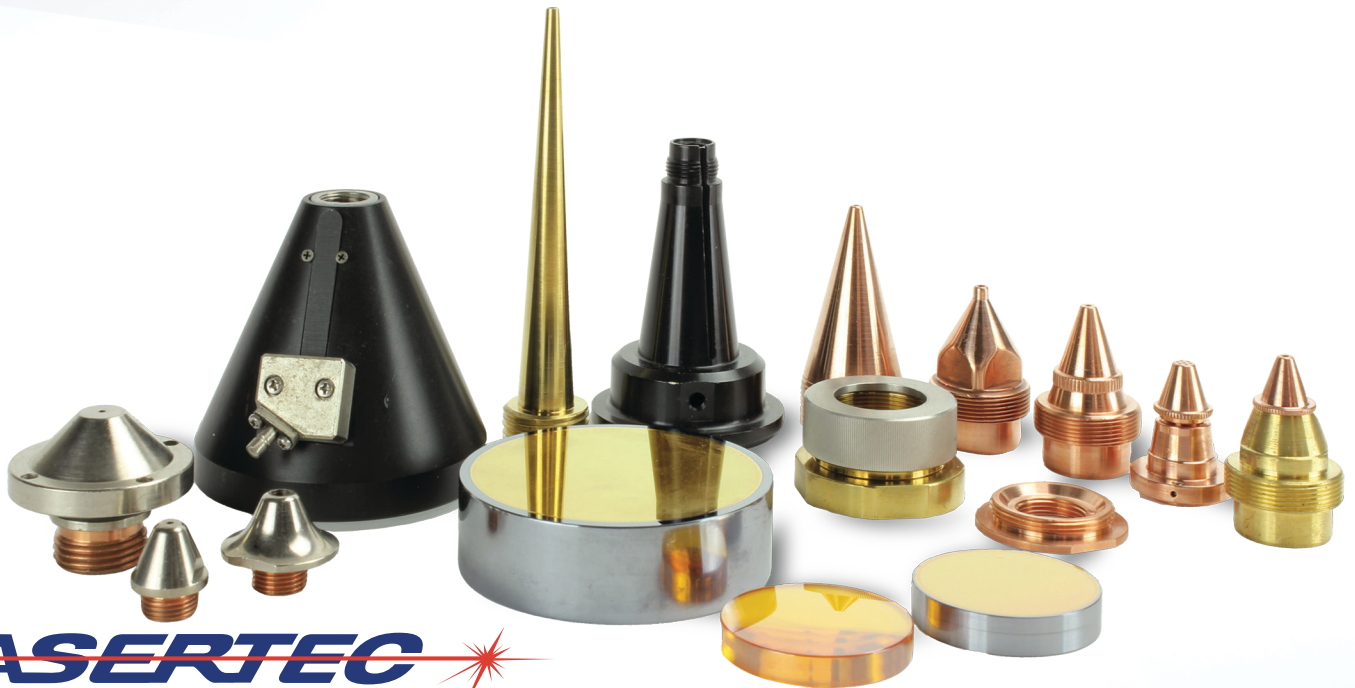


LASER CUTTING PRODUCTS



LASERTEC 

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

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

**AMERICAN
TORCH TIP ATTC** 

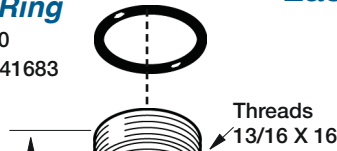
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Lasmac 667/664 Water Assist

O-Ring

S-20
71341683



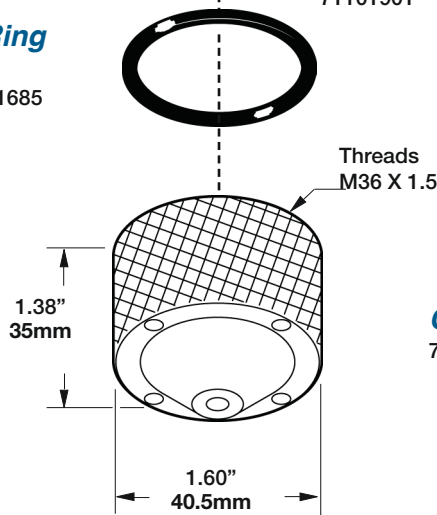
Inner Nozzle, Chrome

(Clean Cut)

71101901-1.0	1.0mm
71101901-1.3	1.3mm
71101902	1.5mm
71101902-1.8	1.8mm
71101901	2.0mm

O-Ring

S-14
71341685

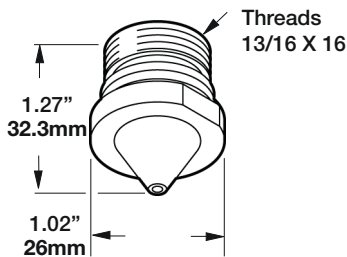


Outer Nozzle, Chrome

71101905

LASER

Apelio 357,367

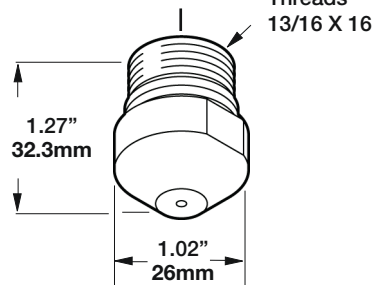


Nozzle, Chrome

(Clean Cut)

6506892-1.2	1.2mm
6506892-1.3	1.3mm
6506892-1.5	1.5mm
6506892-1.8	1.8mm
6506892	2.0mm

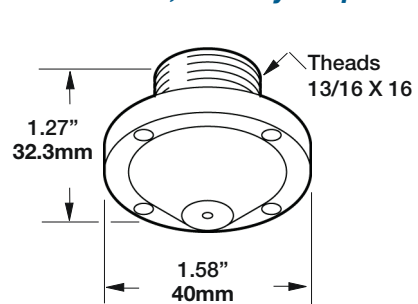
Pulsar/Altair



Inner Nozzle

62094003	2.0mm
62094004	3.0mm

LC667/664, Old Style Apelio



Nozzle

(Clean Cut)

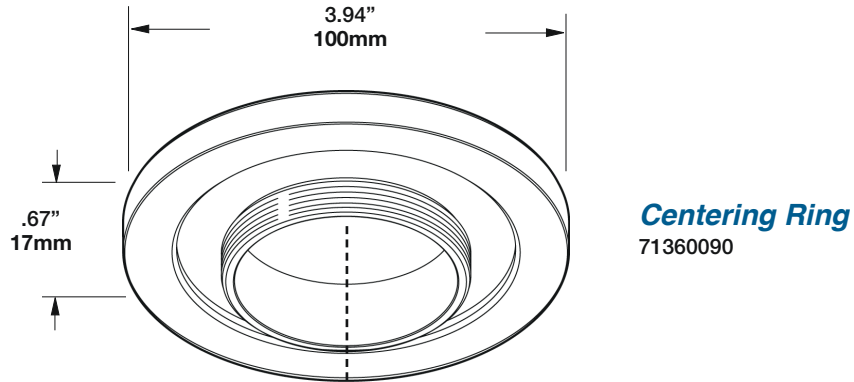
71102000 (2796)	1.5mm
71102000-1.75	1.75mm
71101999 (2795)	2.0mm
71101999-2.5	2.5mm

4

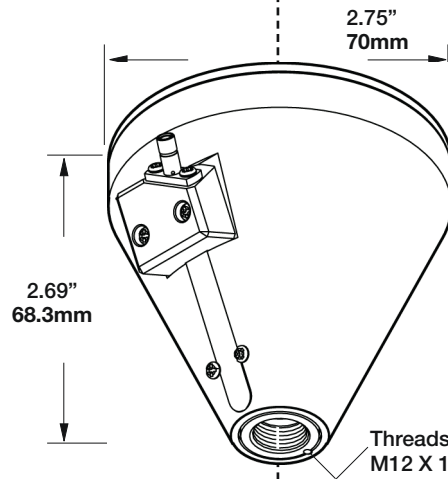
AMADA[®]

Sensor System HS95

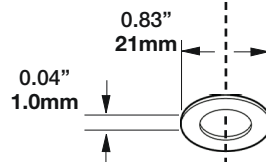
LASER



Centering Ring
71360090



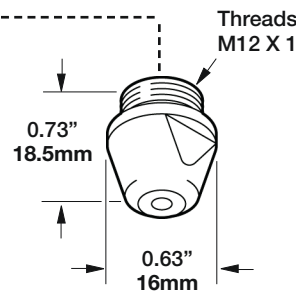
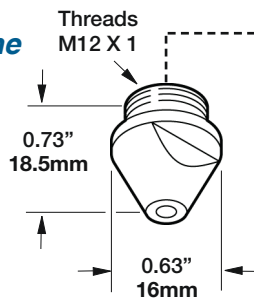
Sensor Head
71360091
71360091-Rebuild



Insulator Ring
71369819 (Phenolic) (ECO only)
71341614A (ceramic)

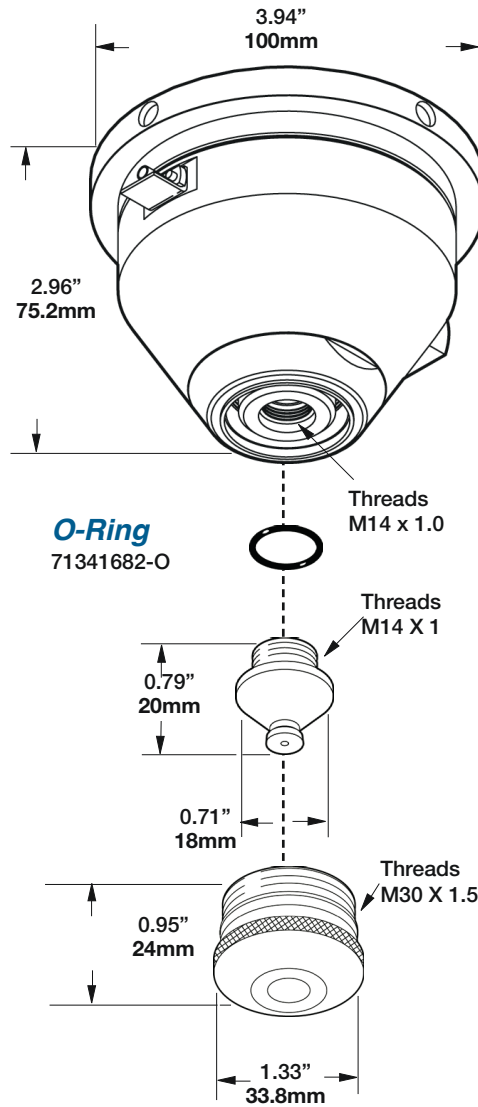
Ext. Nozzle, Chrome

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



Cap Nozzle, Chrome
1664546U 3.0mm

WACS Sensor System



**Sensor Head
WACS**

71341687- Rebuild

**O-Ring
71341682-0**

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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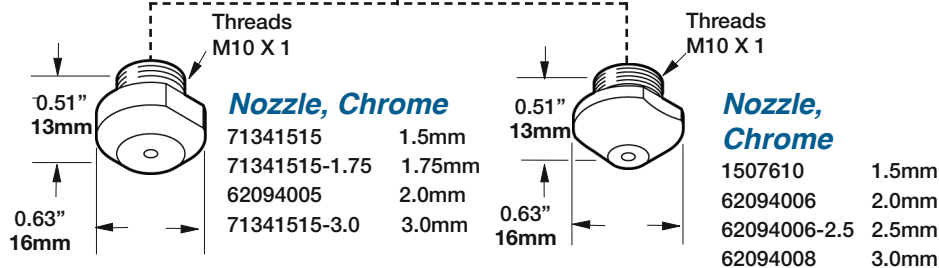
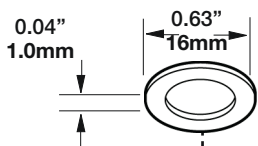
AMADA[®]

Miscellaneous

Pulsar/Altair AHS100

Head Insulator

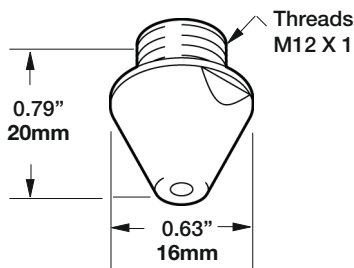
62094006-RING
71360259



LASER

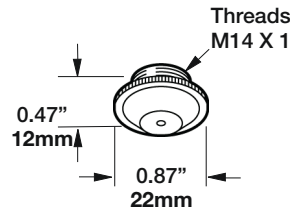
Nozzle Double

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



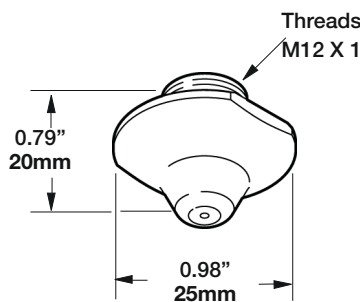
Cap. Nozzle

8249301 2.0mm



Nozzle Mushroom - Single, Chrome

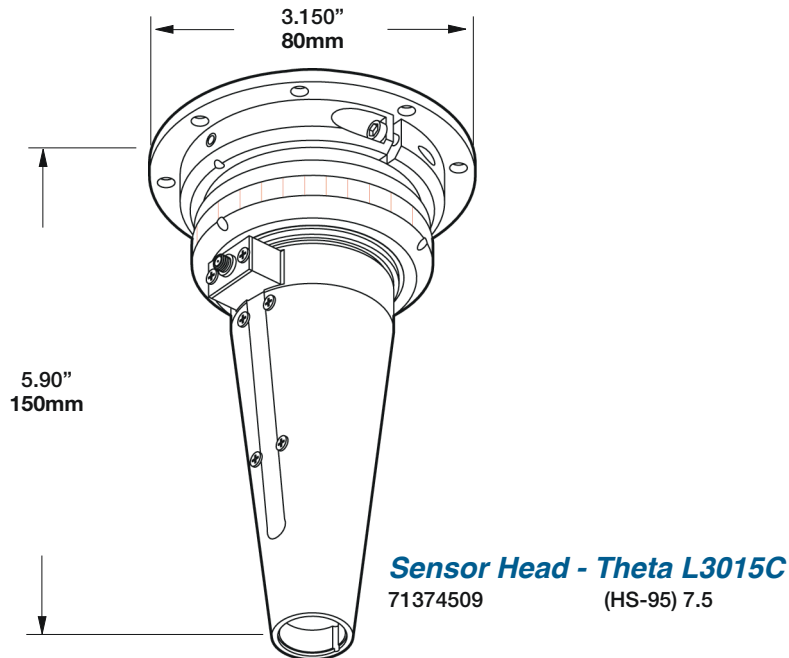
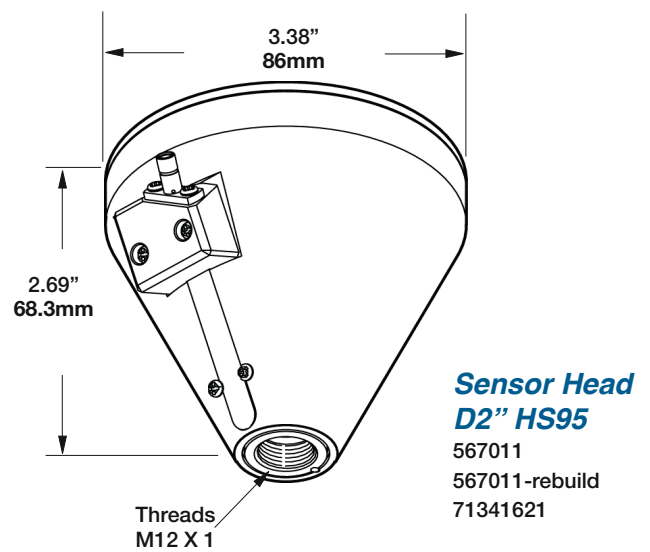
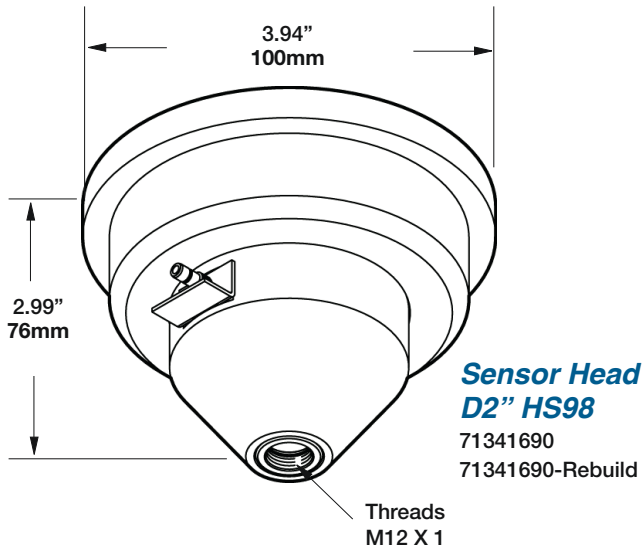
1572362-1.4	1.4mm
1572362-4.0	4.0mm
71369812	1.2mm LP
71369815	2.0mm LP
71369816	3.0mm LP
71501056	1.5Mm (Single Mushroom H.C.)
71501057	2.0mm
71501058	3.0Mm (Single Mushroom Eco)



Nozzle Mushroom - Double, Chrome

1572361	1.2mm
71369813-2.0	2.0mm
71369813-2.5	2.5mm
71369813-3.0	3.0mm
71369813	1.4mm LP
71369817	4.0mm LP
71341481	4.0mm
71461026	2.5mm (Mushroom Shower Double Chrm)
71501059	2.5mm (Double Mushroom Eco)

Misc. Sensor Heads

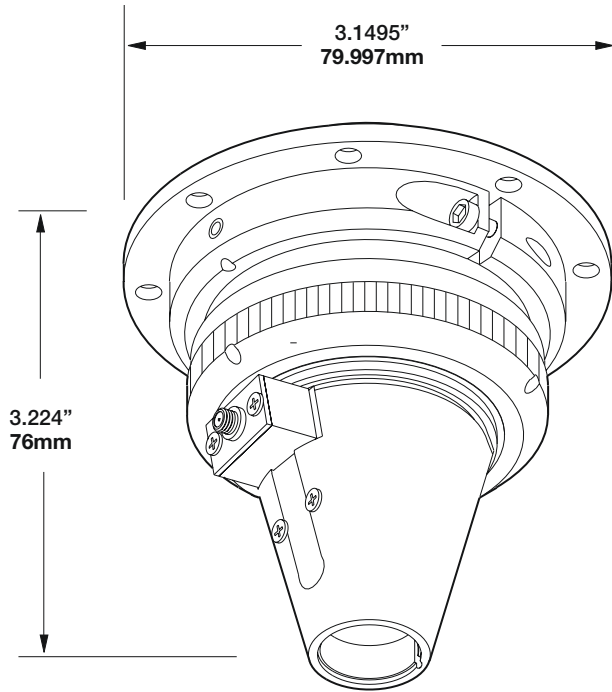


LASER

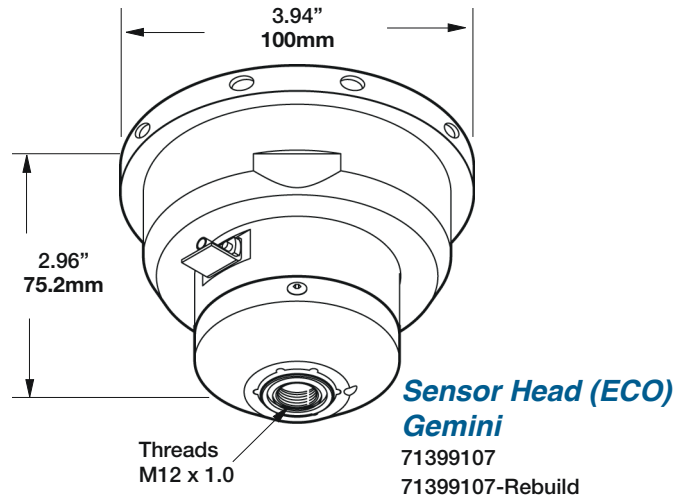
Parts Available but Not Shown

- 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

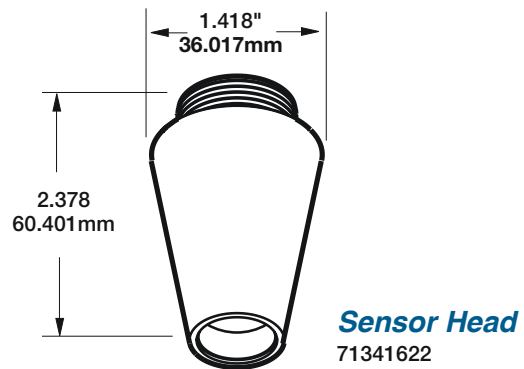
Misc. Sensor Heads



Sensor Head
71341634 5.0 HS-98



Sensor Head (ECO Gemini)
71399107
71399107-Rebuild



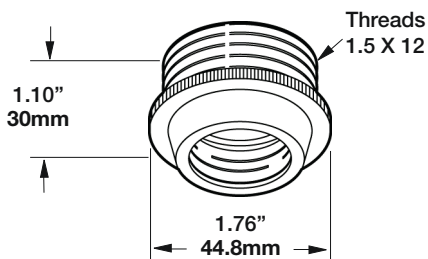
Sensor Head
71341622

LASER

Lens Mounts

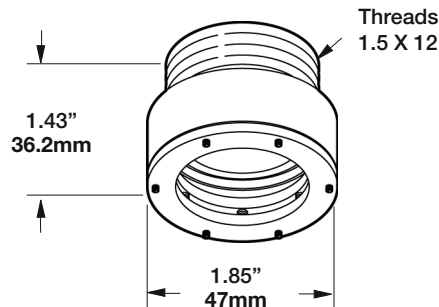
Lens Mount 1.1"

MTA-11



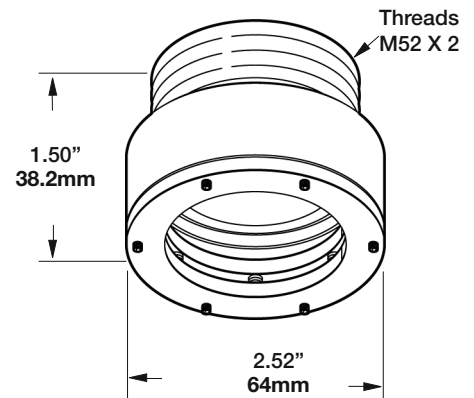
Lens Mount 1.5"

MTA-15



Lens Mount 2.0"

MTA-20



Parts Available but Not Shown

- 71362733 Lens Mount (2.0") for 1.5" Optic
- 71501070 Focusing lens 7.5 focal length with mount
- 71501072 Focusing lens 5.0 Focal length with mount

OPTICS FOR AMADA® LASERS
LASER
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"

Output Couplers

P/N	Material	Diameter	Edge Thickness	S1	S2
71198081	ZnSe	1.1"	.236"	20mcc/60%	9mcx/ar

Rear Mirrors

P/N	Material	Diameter	Edge Thickness	S1	S2
71198087	Ge	1.1"	.236"	20mcc/99.5%	po/ar

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AMADA®

OPTICS FOR AMADA® LASERS

Phase Retarders

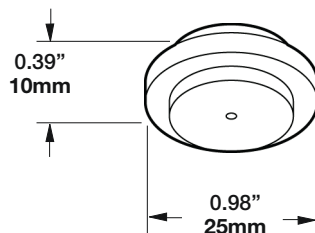
P/N	Material	Diameter	Edge Thickness
71198085	Si	2.0"	.200"
71198088	Si	2.0"	.200"
71198091	Si	3.0"	.250"
71198545	Si	2.0"	.200"
71341532	Si	3.0"	.250"

Zero Phase Shifters

P/N	Material	Diameter	Edge Thickness
71198084	Si	2.0"	.200"
71198089	Si	2.0"	.200"
71198092	Si	3.0"	.250"
71198544	Si	2.0"	.200"
71198569	Si	3.0"	.250"
81100235	Cu	50mm	25mm

Total Reflectors

P/N	Material	Diameter	Edge Thickness
71198083	Si	2.0"	.200"
71198543	Si	2.0"	.200"
81140185	Si	2.0"	.375"

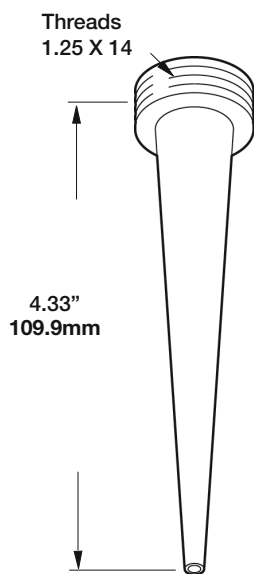


Nozzle

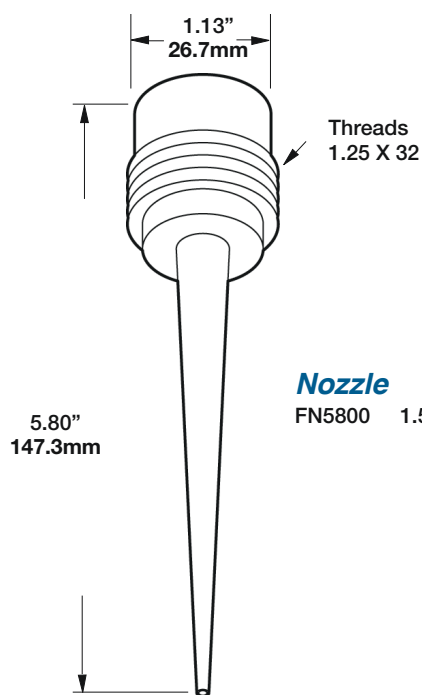
L60	0.8mm
L51	1.0mm
L52	1.2mm
L53	1.5mm

LASER

DIRECTED LIGHT®



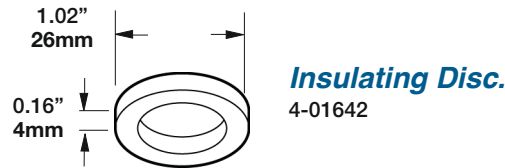
Nozzle
FN4325 2.4mm



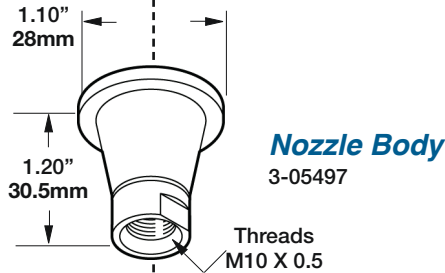
Nozzle
FN5800 1.5mm

Bystar/Bysprint

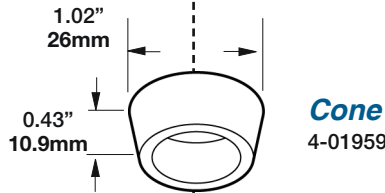
LASER



Insulating Disc.
4-01642



Nozzle Body
3-05497



Cone
4-01959

Nozzle Low Pressure, Capacitive

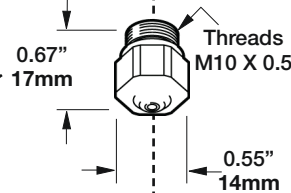
*3-04273	0.8mm	K08
3-01905	1.0mm	K10
3-01906	1.25mm	K12
3-01907	1.5mm	K15
3-01908	1.75mm	K17
3-01909	2.0mm	K20
3-04274	2.5mm	K25

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
3-03854	2.5mm	HK25
3-06112	3.0mm	HK30
3-06112-3.5	3.5mm	HK35

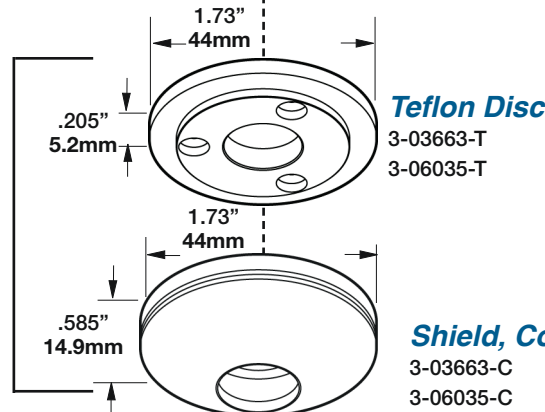
Complete Shield, 2pc

- 3-03663
- 3-06035



Nozzle, Double - Chrome

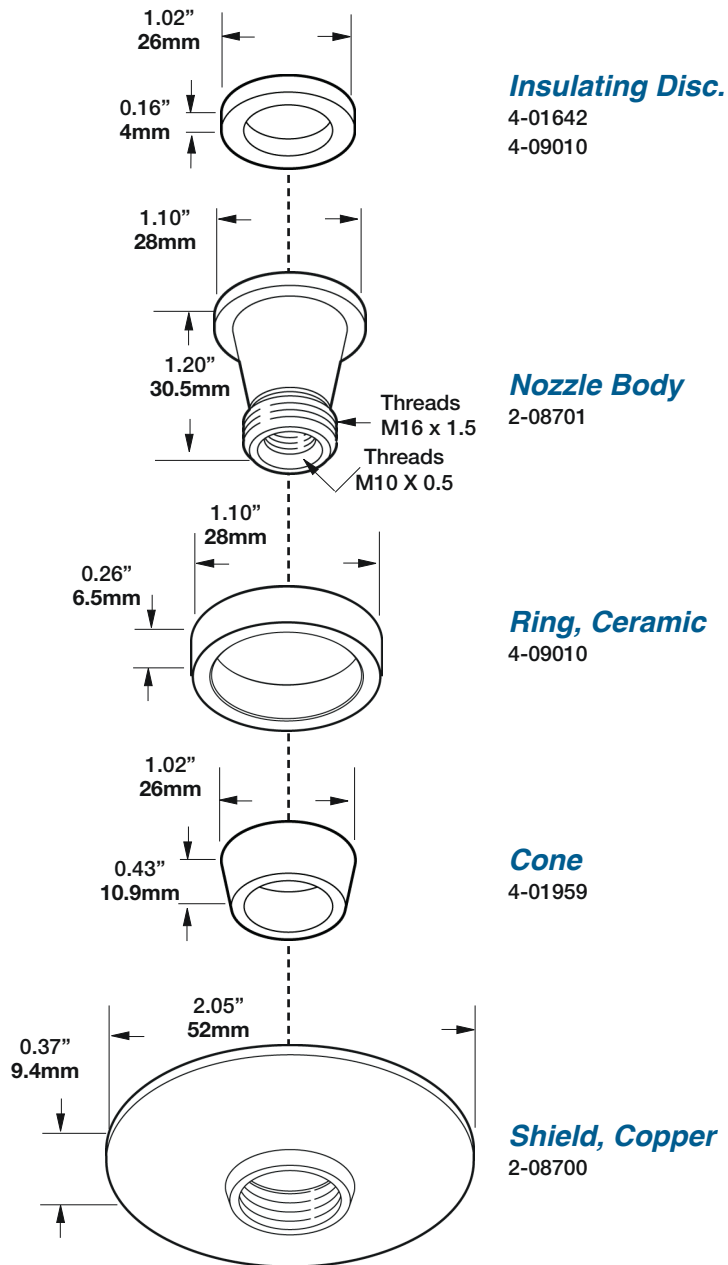
Part #	Alternate Part #	Size
3-16058		1.0mm NK10
5-05182-1.2	3-16059	1.25mm NK12
5-05182-1.5	3-16060	1.5mm NK15
3-14317-1.7		1.7mm NK17
5-05182-1.75		1.75mm NK17
5-05182-2.0	3-14318	2.0mm NK20
5-05182	3-14319	2.5mm NK25
5-05182-3.0	3-16061	3.0mm NK30



Teflon Disc
3-03663-T
3-06035-T

Shield, Copper
3-03663-C
3-06035-C

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



LASER

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BYSTRONIC[®] - FIBER

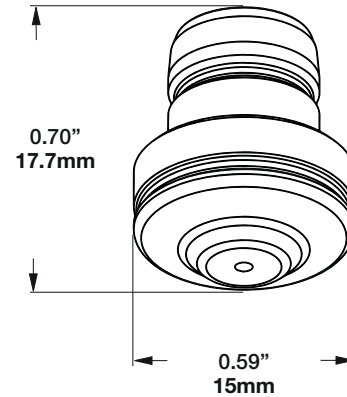
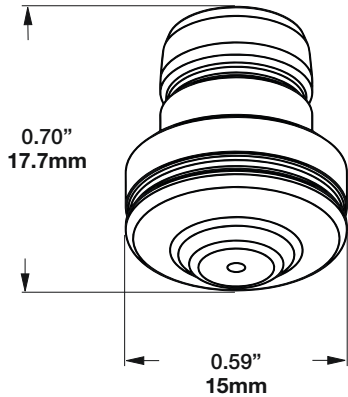
ByStar/BySprint/BySmart

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



Parts Available but Not Shown

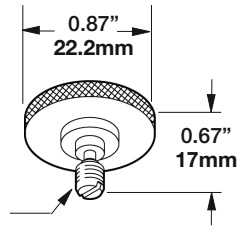
Part #	Description	Size
10045746	Fused Silica Protective Window	36.0mm x 5.0mm

LASER

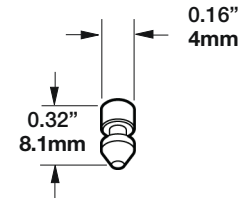
16
BYSTRONIC®

Miscellaneous

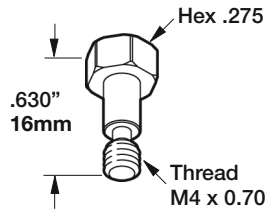
Knurled Screw
4-03136



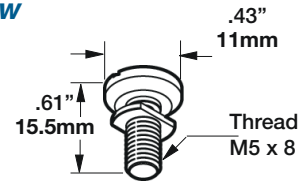
Pin
4-03137



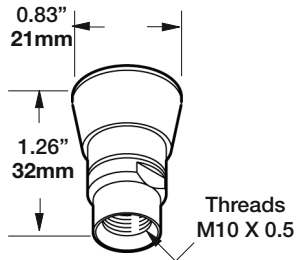
Knurled Screw
4-00324



Knurled Screw
3-09001

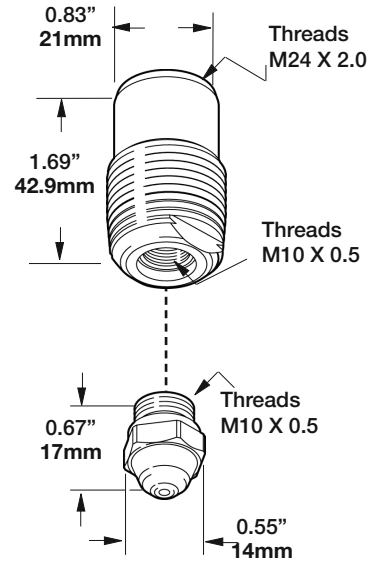


Nozzle Body, Capacitive
3-02291

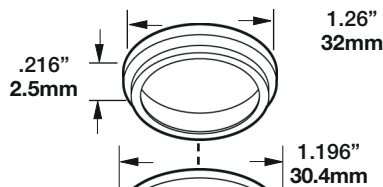


Nozzle Body
3-00407

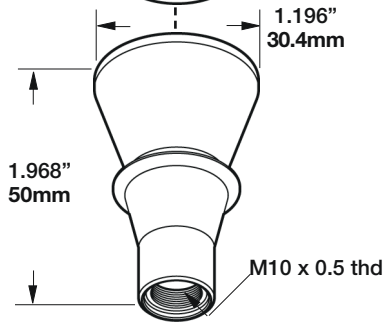
Tactile



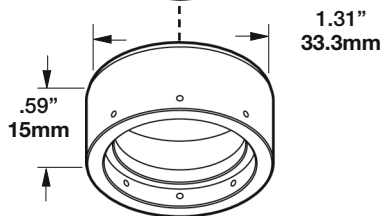
Insulating Ring
3-13113



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® 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"

Phase Retarder

P/N	Material	Diameter	Edge Thickness
4-00226	Cu	50mm	10mm

LASER

Zero Phase Shifters

P/N	Material	Diameter	Edge Thickness	SI-Curv.
4-00200	Cu	60mm	10mm	Plano
4-00203	Cu	50mm	10mm	Plano

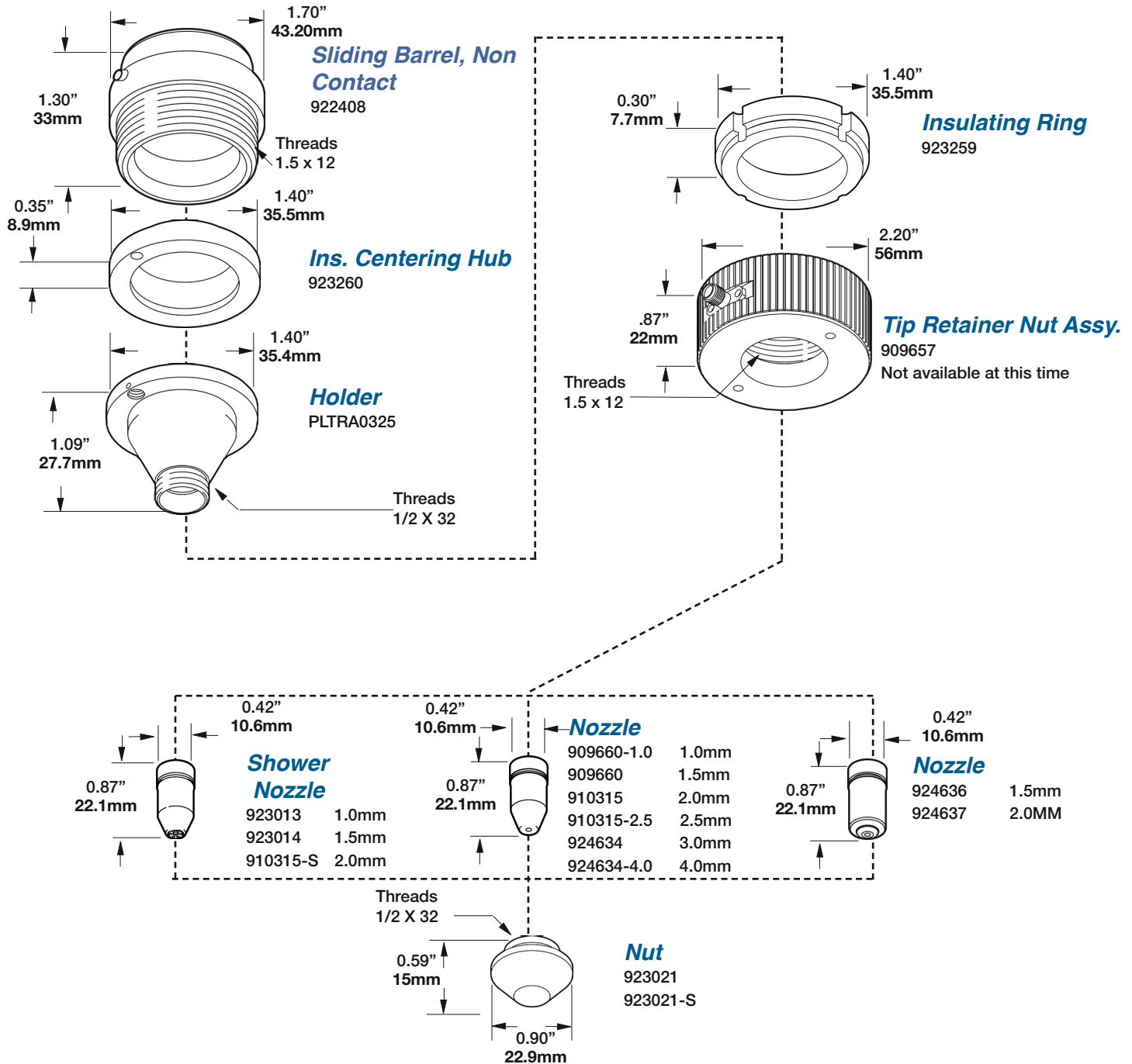
Total Reflectors

P/N	Material	Diameter	Edge Thickness	SI-Curv.
4-00201	Cu	50mm	10mm	Plano

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CINCINNATI[®]

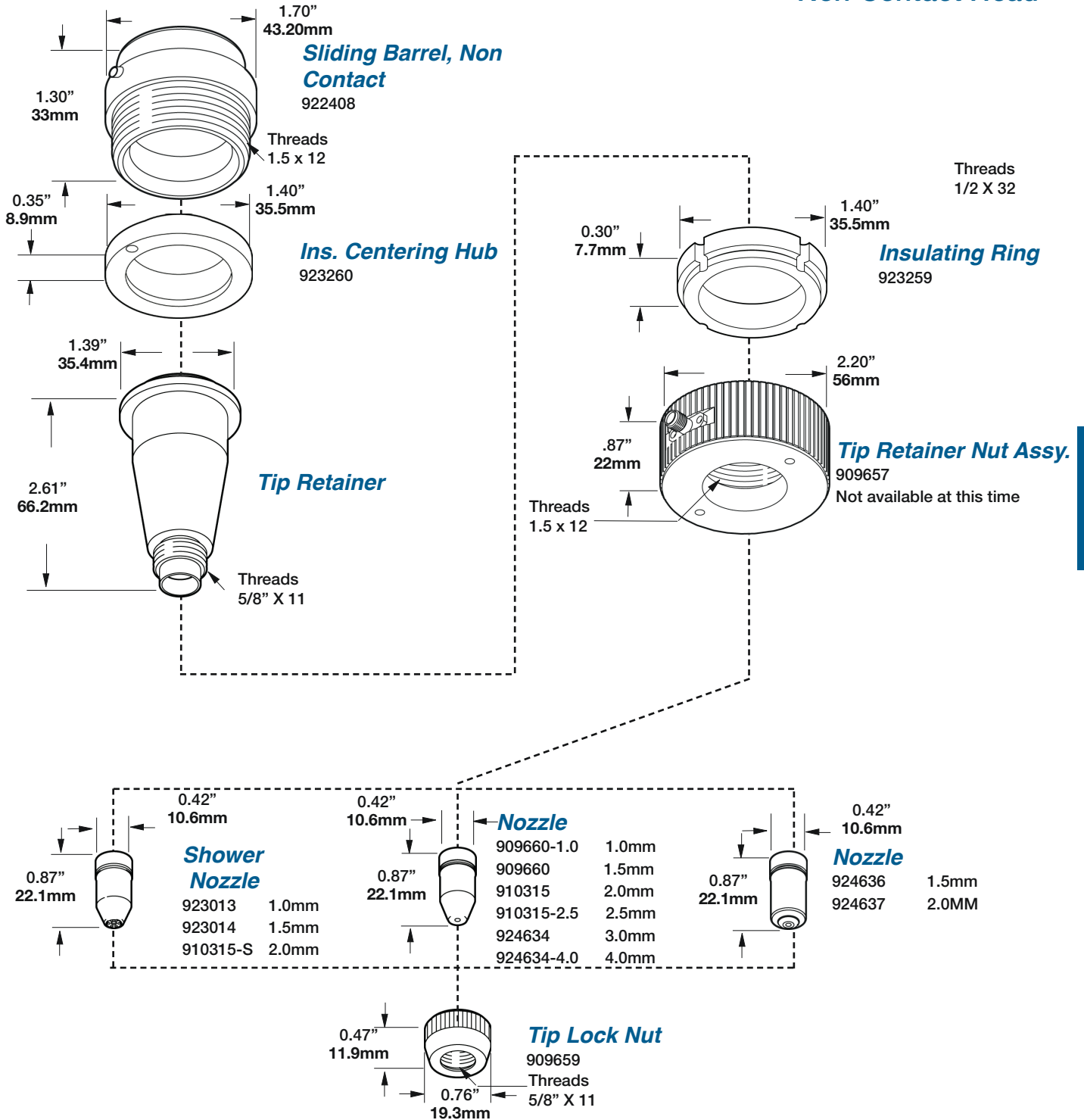
Non Contact Head

LASER



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Non Contact Head



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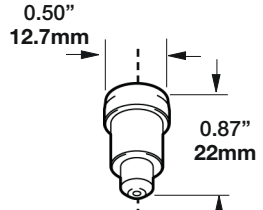
20

CINCINNATI[®]

Contact Head

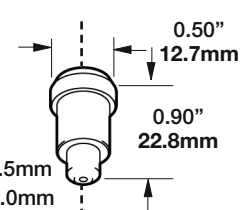
Standard Nozzle

907469	1.0mm
907470	1.5mm
907470-1.8	1.8mm
920006	2.0mm
920006-2.5	2.5mm



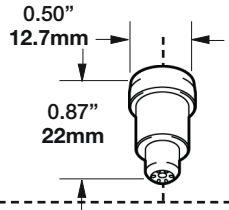
Elongated Nozzle

908090	1.5mm
908090-2.0	2.0mm



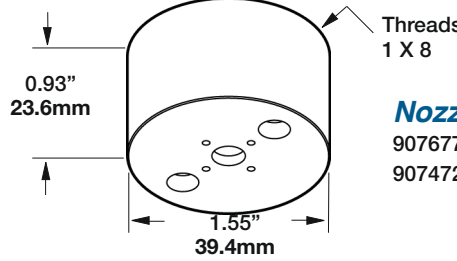
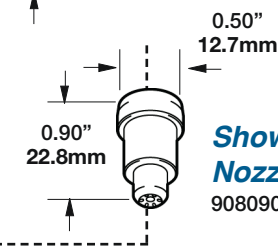
Shower Nozzle

907470-S



Shower Nozzle Long

908090-S



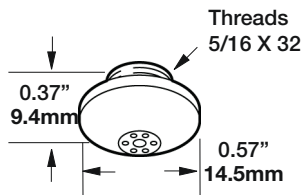
Nozzle Holder

907677 - Includes Seal
907472 - Seal Only

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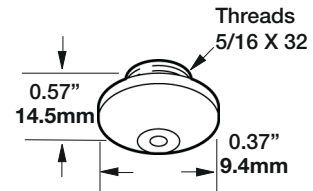
Non Contact



Shower Nozzle

922772

Non Contact



Nozzle

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

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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"

Output Couplers

P/N	Material	Diameter	Edge Thickness	S1	S2
907969	ZnSe	1.0"	.236"	30mcc/65%	30mcc/ar

Rear Mirrors

P/N	Material	Diameter	Edge Thickness	S1	S2
907970	Ge	1.0"	.236"	15mcc/99.5%	po/ar

OPTICS FOR CINCINNATI® LASERS

Phase Retarders

P/N	Material	Diameter	Edge Thickness
907463	Cu	50mm	10mm
909975	Cu	2.25"	10mm

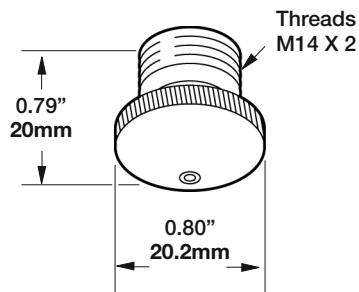
Zero Phase Shifters

P/N	Material	Diameter	Edge Thickness
907464	Cu	50mm	10mm
909976	Cu	2.25"	10mm
910341	Cu	3"	.500"

Total Reflectors

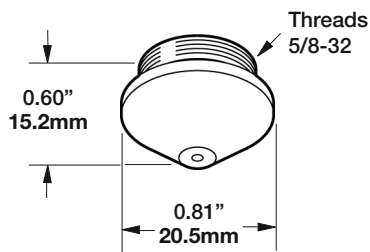
P/N	Material	Diameter	Edge Thickness	SI-Curv.
907971	Si	2.0"	.200"	Plano
910600	Si	2.0"	.200"	Plano
922645	Si	2.0"	.200"	Plano

FANUC®



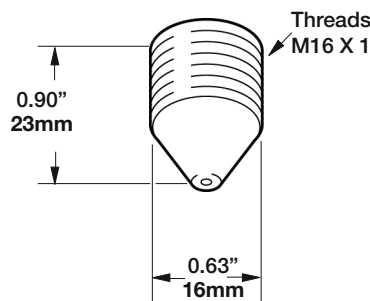
Nozzle

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



Nozzle

26-71270-60 1.5mm

OPTICS FOR FANUC® LASERS

Output Couplers

P/N	Material	Diameter	Edge Thickness	S1	S2
A98L00010981	ZnSe	1.1"	.236"	20mcc/60%	9mcx/ar

Rear Mirror

P/N	Material	Diameter	Edge Thickness	S1	S2
A98L00010750	Ge	1.1"	.236"	20mcc/99.5%	po/ar
A98L00010757	Ge	1.5"	.315"	20mcc/99.5%	po/ar

Phase Retarder

P/N	Material	Diameter	Edge Thickness
A98L00010617	Si	2.0"	.200"

Zero Phase Shifter

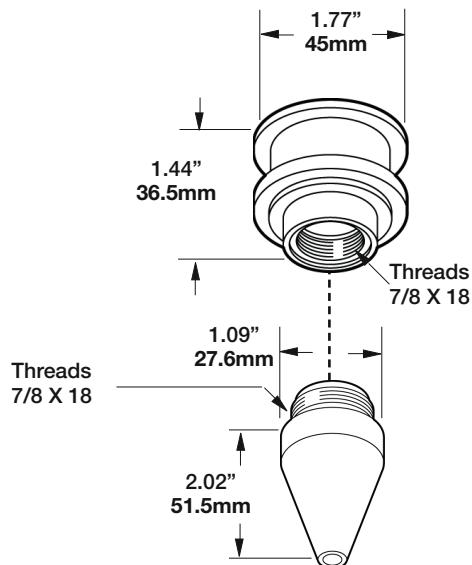
P/N	Material	Diameter	Edge Thickness
A98L00010616	Si	2.0"	.200"

Total Reflector

P/N	Material	Diameter	Edge Thickness
A98L00010615	Si	2.0"	.200"

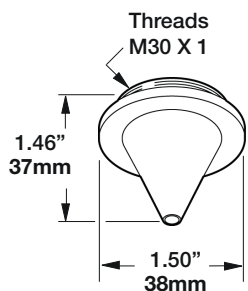
LASER

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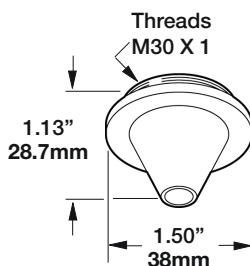


Adapter
100.703.4

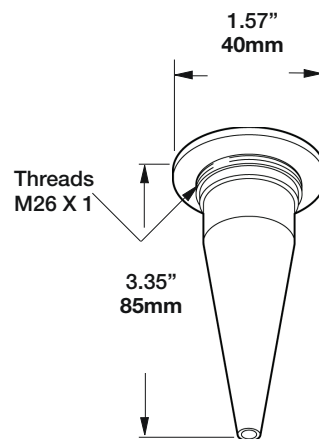
Adapter Tip
100.703.3 5mm



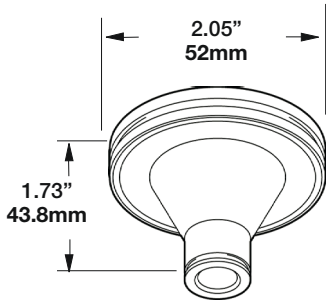
Powder Cone
100.703.2-2.5 2.5mm



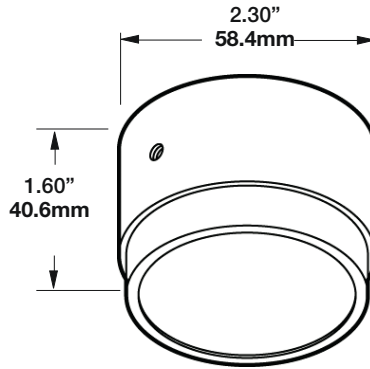
Nozzle
100.703.2 7.4mm



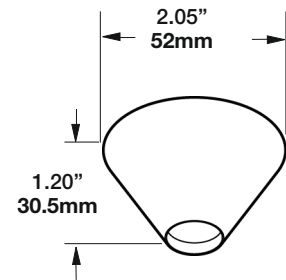
Beam Cone
100.703.5



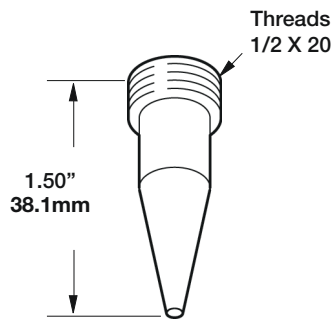
Housing, Main Body
216-20720



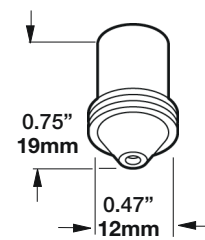
Housing Cover
216-20718



Housing, Water
216-20717



Nozzle, Inner
216-20719



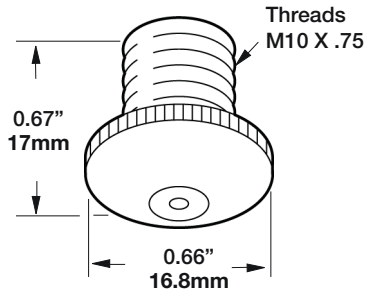
Nozzle, Outer
216-20722 .080

Parts Available but Not Shown

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

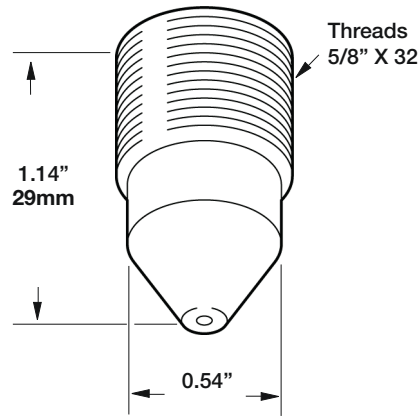
LASER

Komatsu



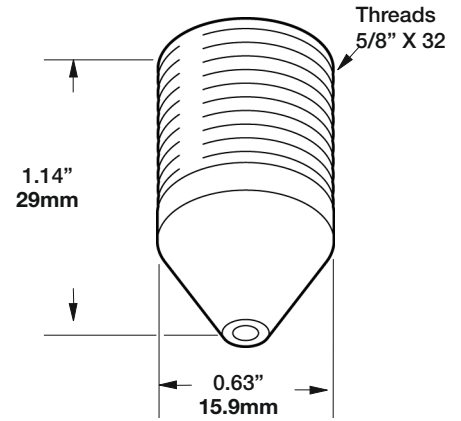
Nozzle

968-41-93-761 1.7mm



Nozzle Standard

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

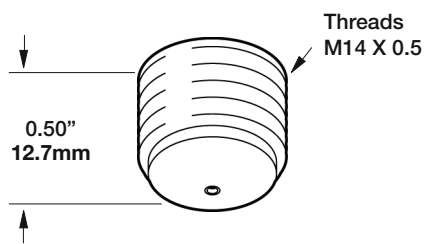


Nozzle Special

968-41-57-850 2.0mm

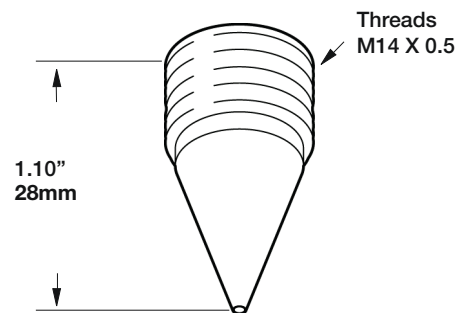
LASER

Lasag[®]



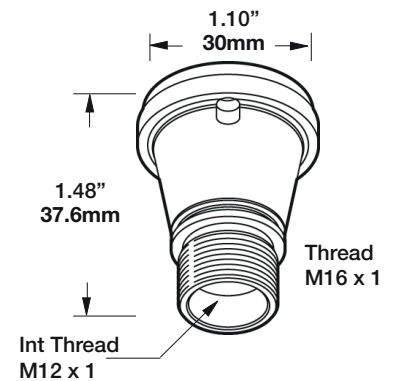
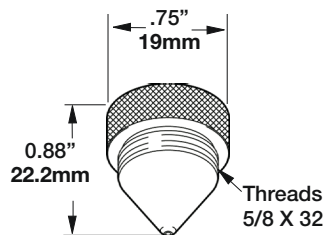
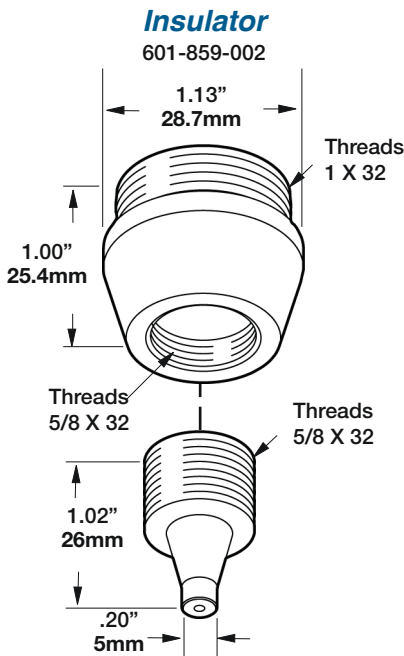
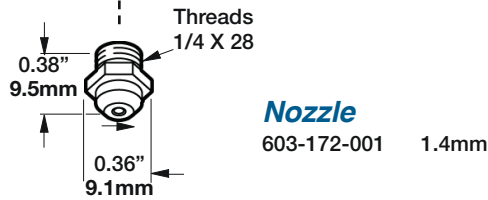
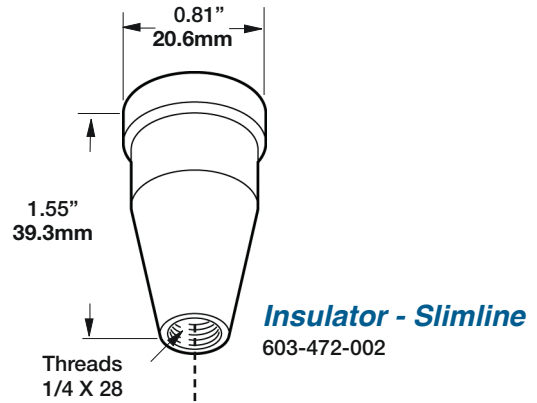
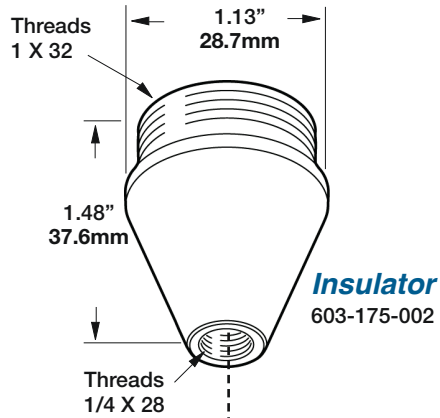
Nozzle Short

LASAG.SHORT 1.0mm



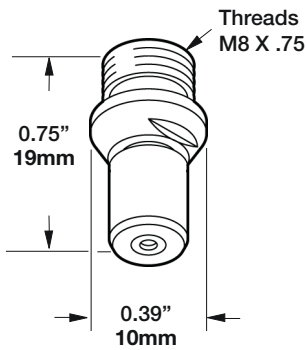
Nozzle Long

LASAG.LONG 1.0mm



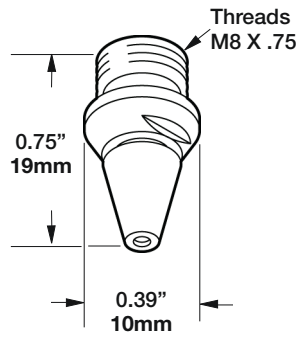
- Nozzle**
- 601-614-002 1.0mm
 - 601-614-001 1.5mm
 - 601-614-003 2.0mm
 - 601-614-005 2.5mm

LASER



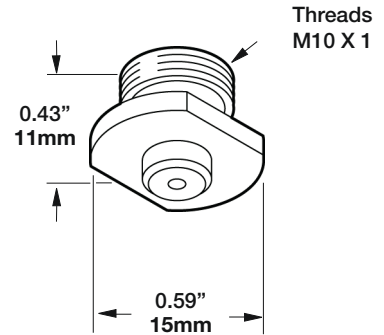
Nozzle

485.73.114C 1.5mm
LW3.46.101A 2.0mm



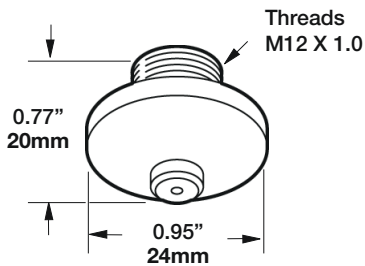
Nozzle Tapered

485.73.115A 1.5mm
485.73.116A 2.0mm



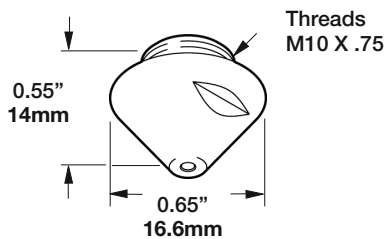
Nozzle

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



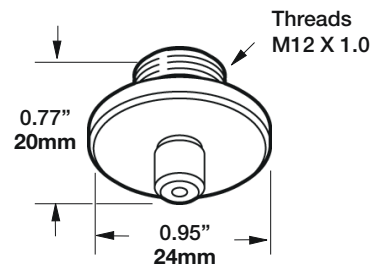
Nozzle

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



Nozzle

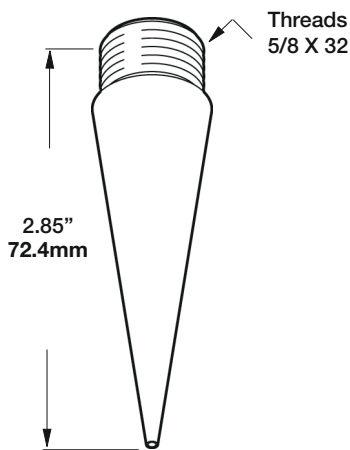
605-213-001 1.5mm
605-213-001-1.75 1.75mm



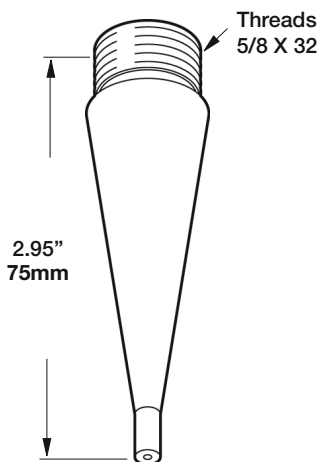
Nozzle

LW6.1G.601 2.0mm
LW6.1G.601-2.5 2.5mm
LW6.1G.601-3.0 3.0mm

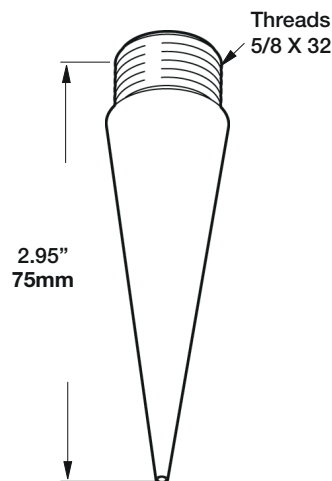
LASER



Nozzle
603-271-003 1.5mm



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

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"

Phase Retarder

P/N	Material	Diameter	Edge Thickness
834-205-003	Si	1.5"	.160"
834-205-005	Si	2.0"	.200"
834-205-006	Si	3.0"	.250"

Zero Phase Shifters

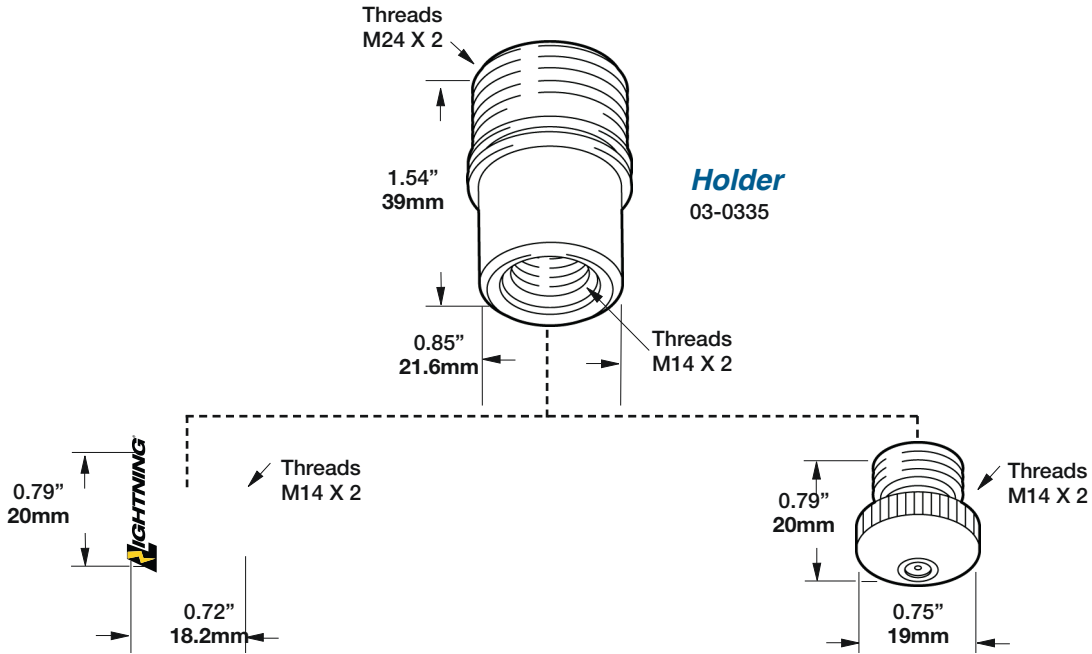
P/N	Material	Diameter	Edge Thickness
834-207-001	Si	2.0"	.200"
834-207-002	Si	3.0"	.250"
834-207-003	Si	1.5"	.160"

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LASER LAB[®]

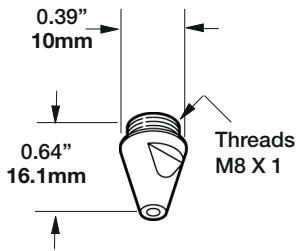


Nozzle High Pressure

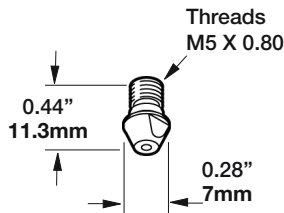
01-2293	0.5mm
00-2293	1.2mm
03-2293	1.5mm
03-2293-1.8	1.8mm
02-2293	2.0mm
02-2293-2.5	2.5mm
02-2293-3.0	3.0mm

Nozzle Low Pressure

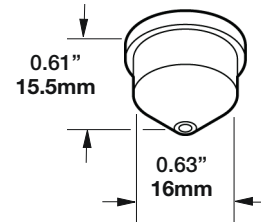
160-1	1.0mm
160-2	1.2mm
160-3	1.5mm



Nozzle
03-0916 2.0mm



Nozzle
03-8358 1.5mm



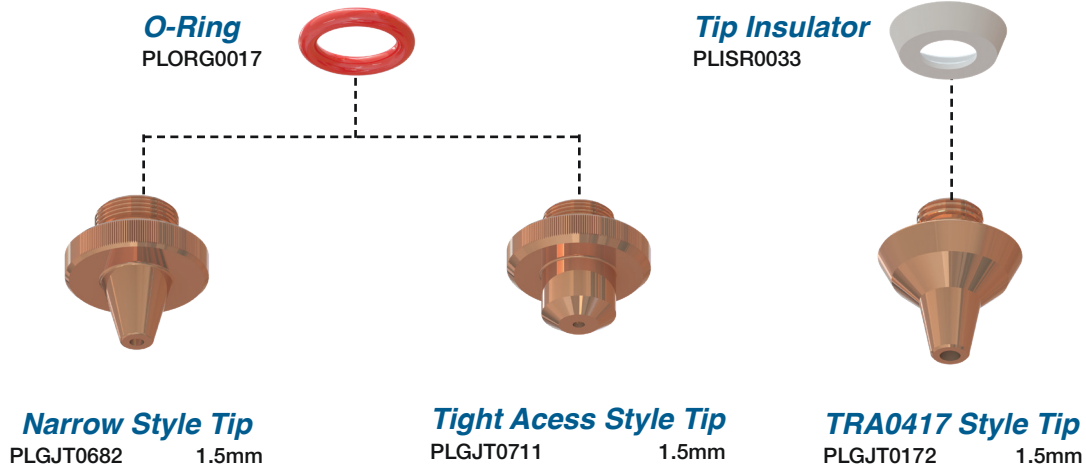
Nozzle

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
03-230T	3.0mm

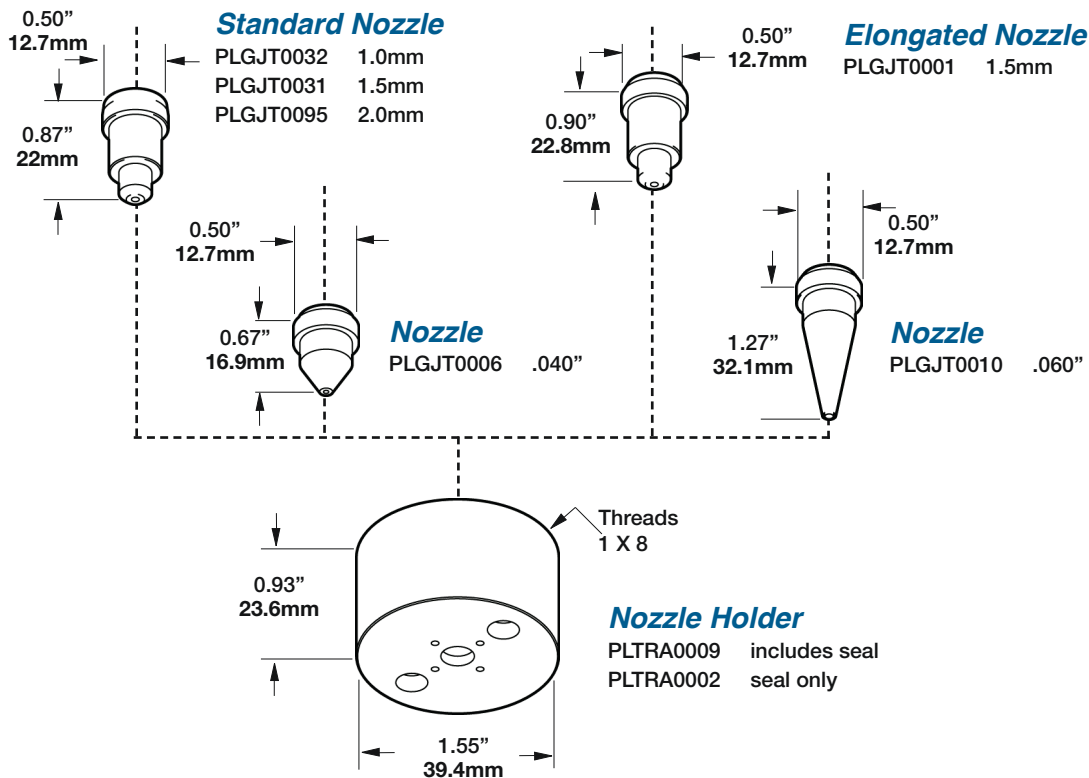
LASER

LASER MECHANISMS®

FiberCut™ ST



CONTACT HEAD

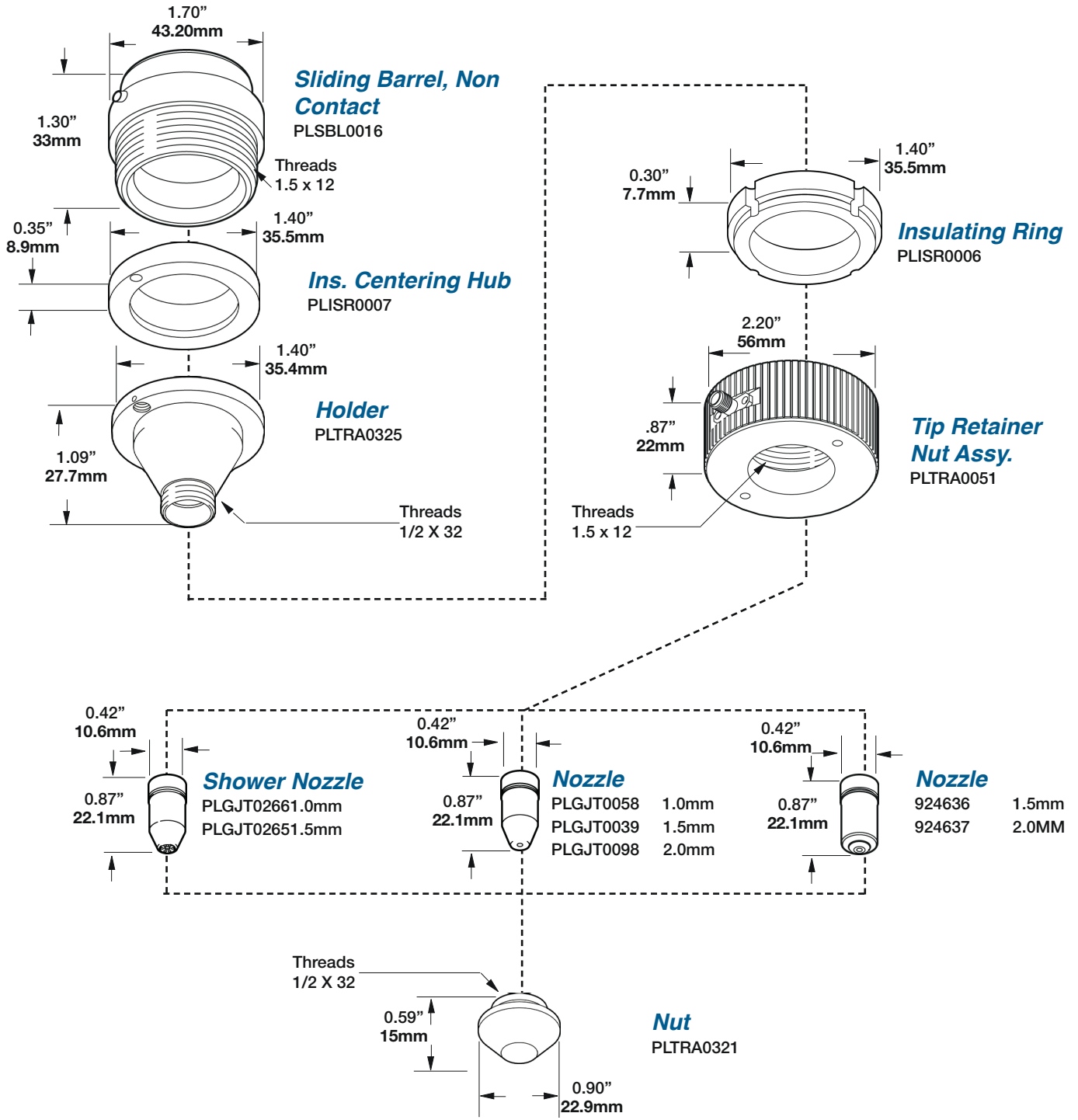


LASER

LASER MECHANISMS[®]

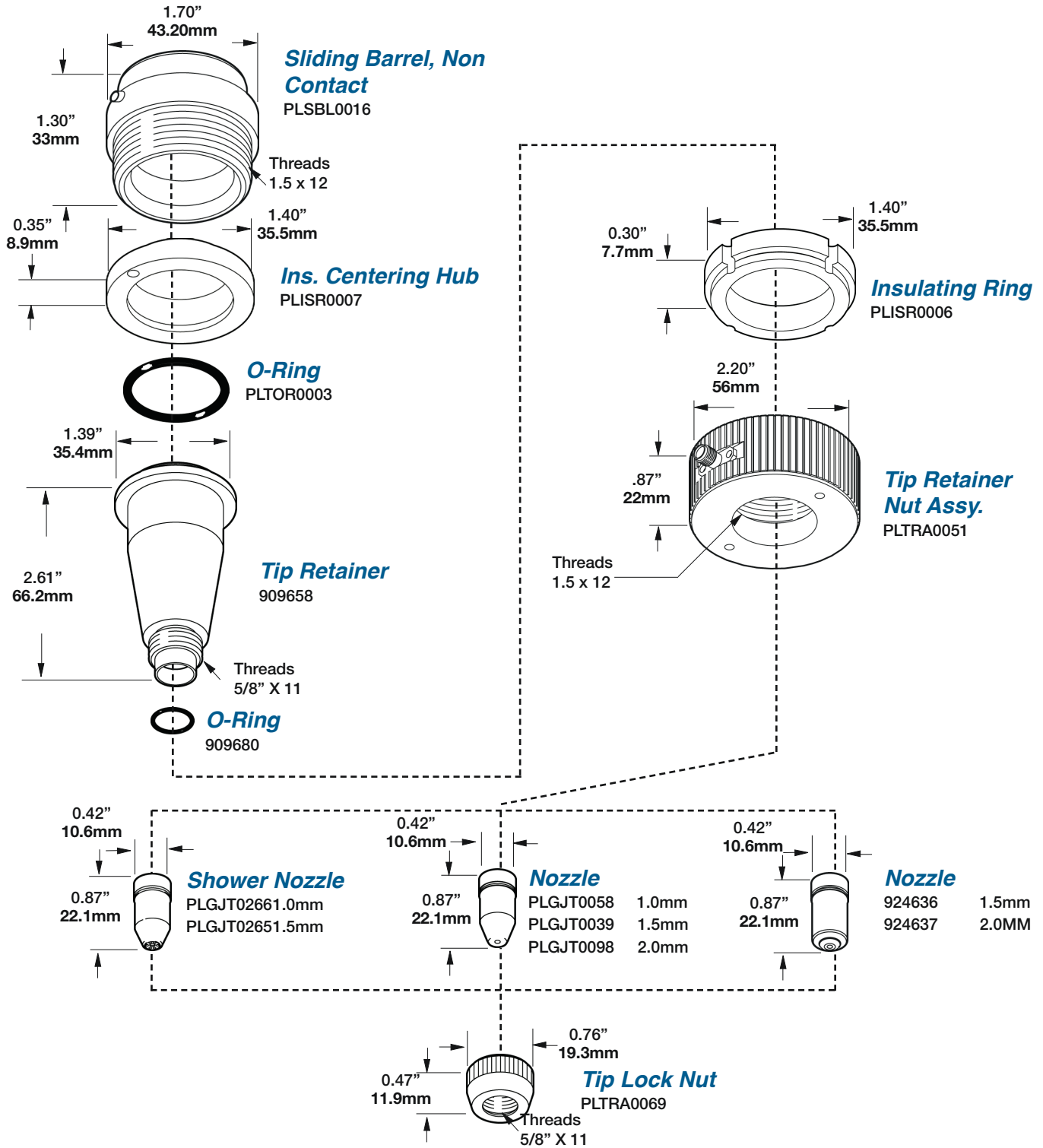
NON CONTACT HEAD

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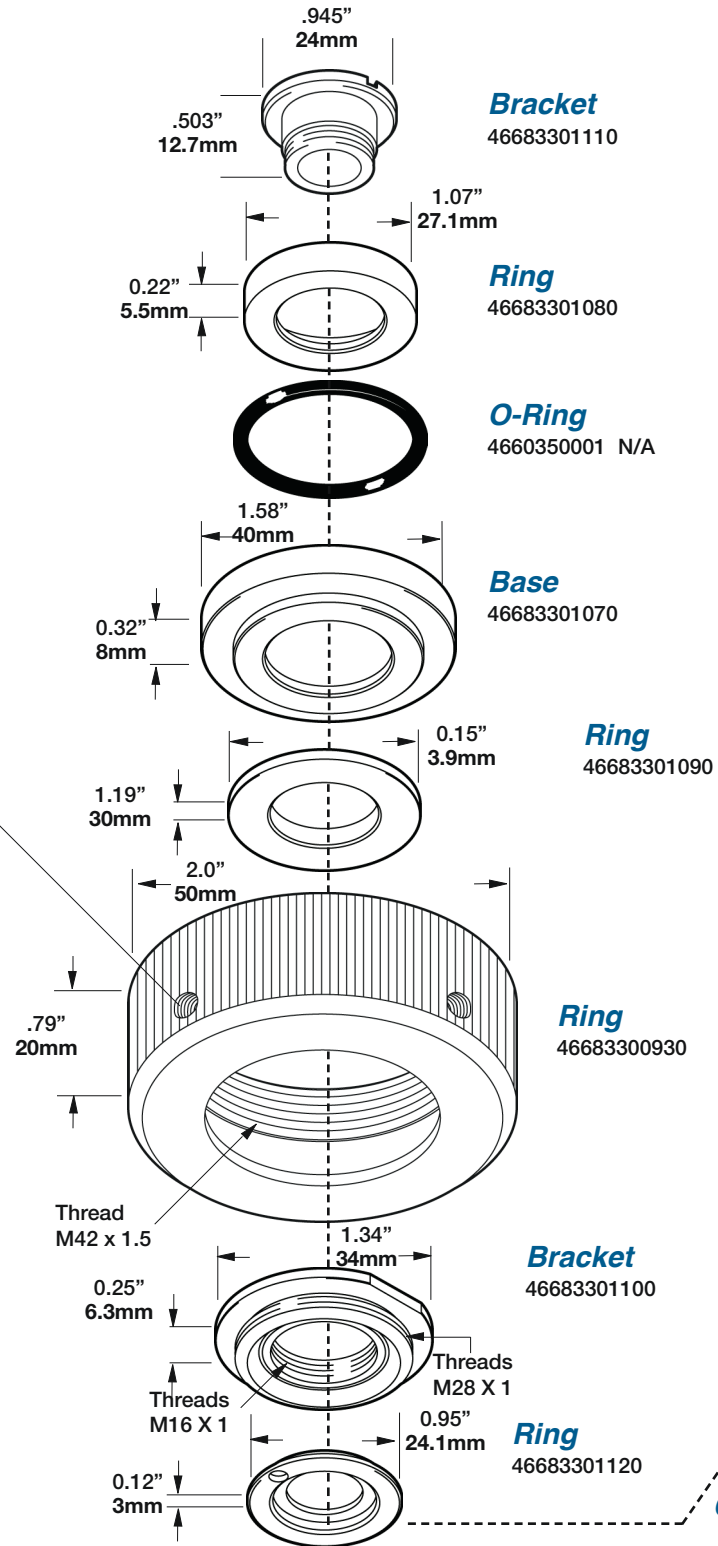
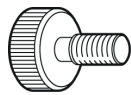
34

MAZAK[®]

Super Charge X510

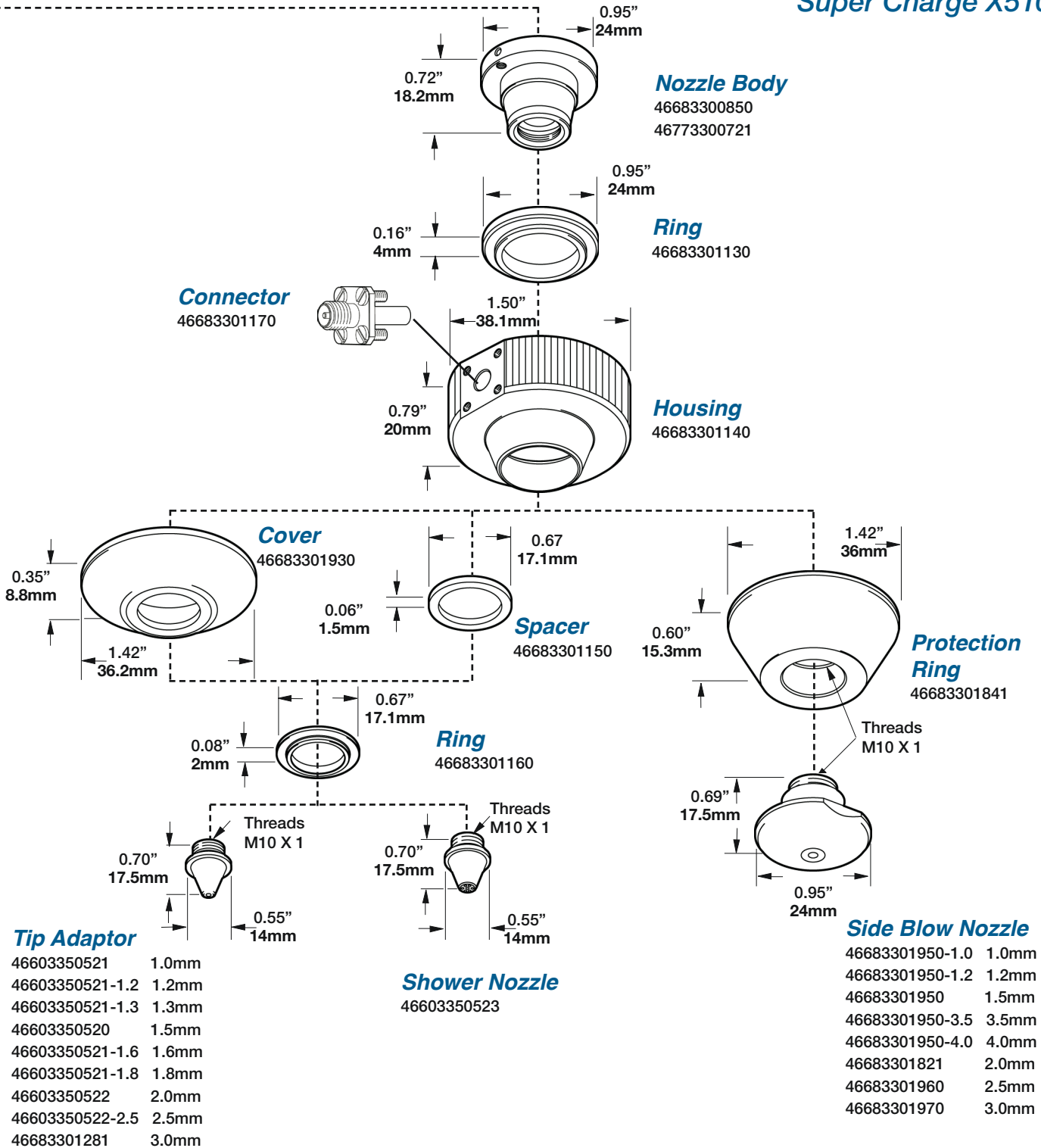
LASER

Bolt M5 x 0.5
46603300032



Continued on next page

Super Charge X510



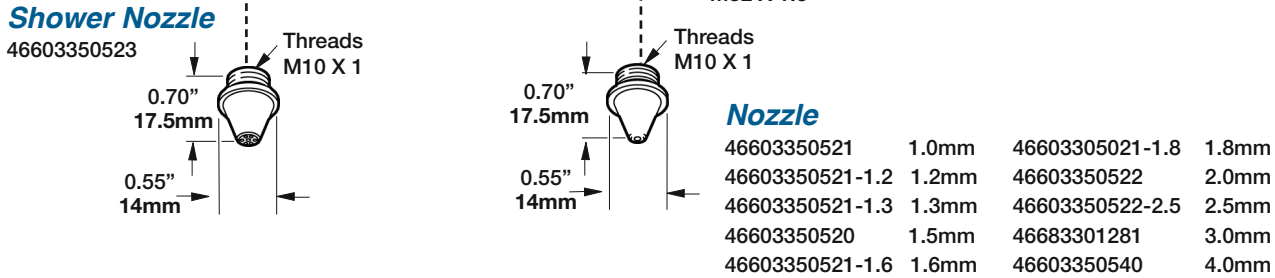
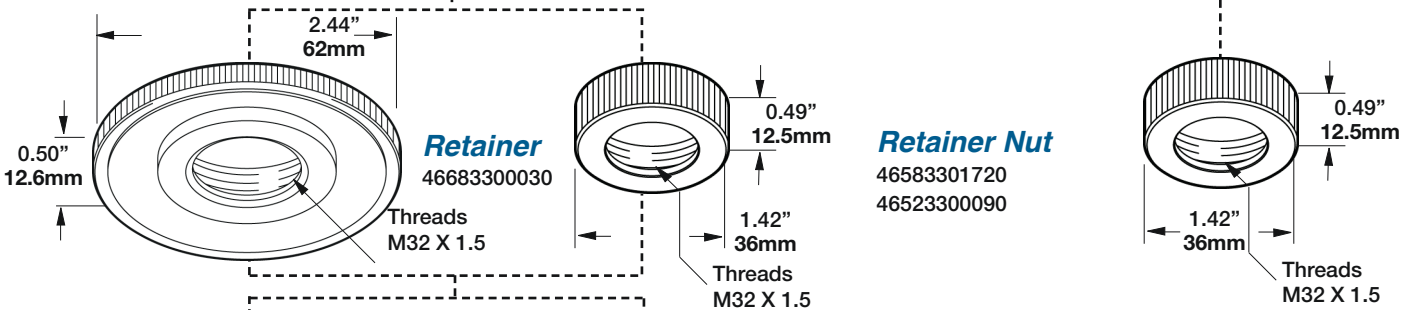
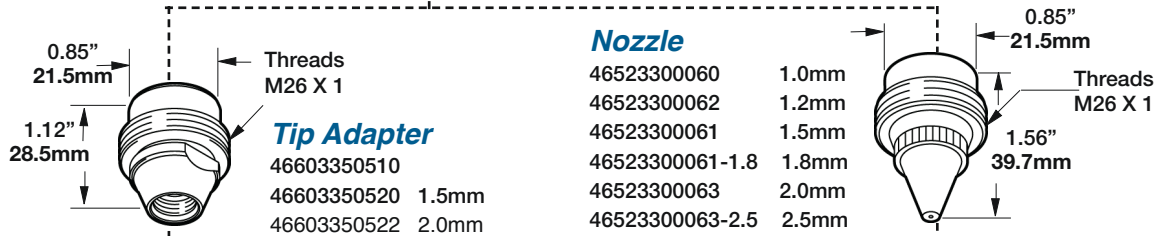
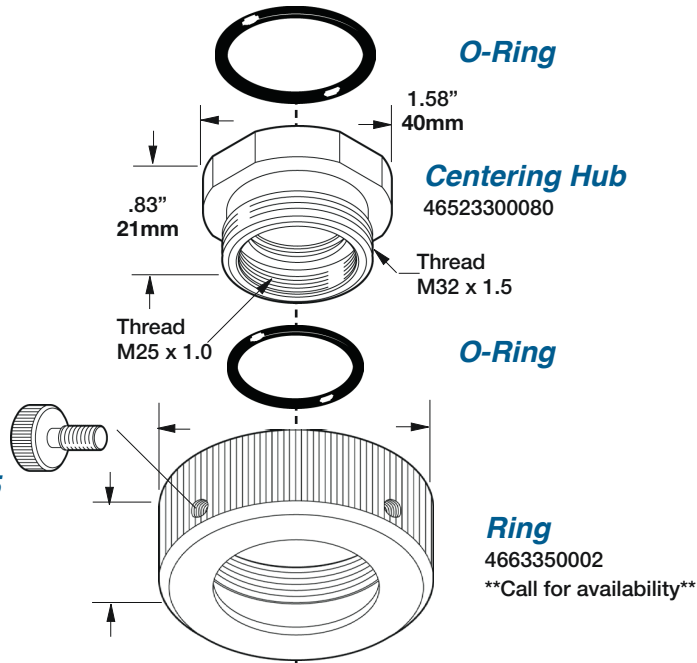
LASER

36

MAZAK®

Turbo 10KW

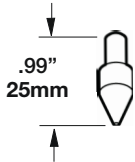
LASER



Miscellaneous

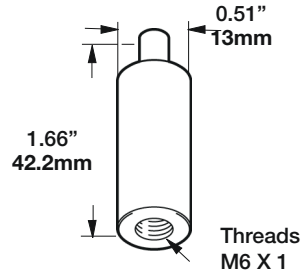
Table Pin

46600030013



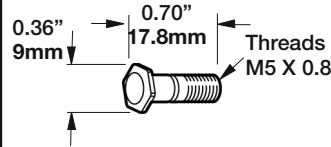
Stylus Pin

46522300242



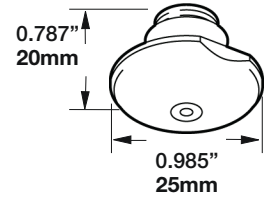
Shear Pin

46654801053

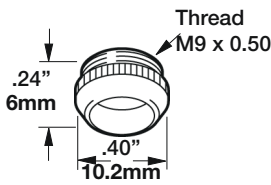


Nozzle

46143304450	1.5	46143304480	2.5
46143304460	2.0	46143304490	3.0
46143304470	1.2		

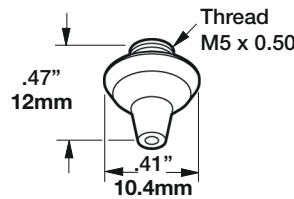


HNZ



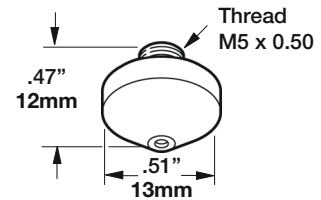
Insulator
46713300320

HNZ

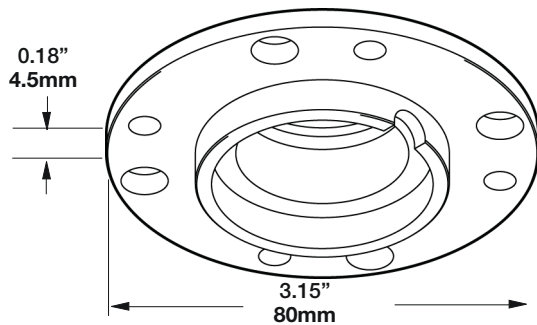


Tip, Cu - 3D
46713300280 2.0mm
46713300410 1.2mm
46713300290 1.5mm
46713300430 3.0mm

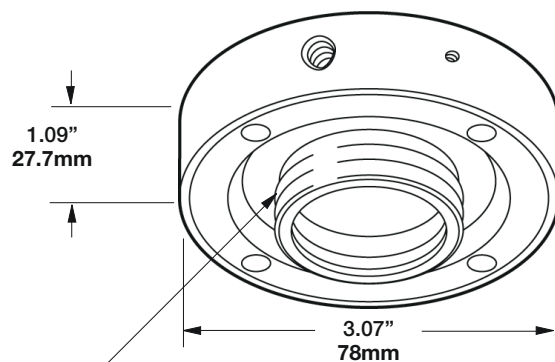
HNZ



Tip, Cu - 2D
46713300300 2.0mm
46713300310 1.5mm
46713300440 3.0mm



Aluminum Base
36623300700



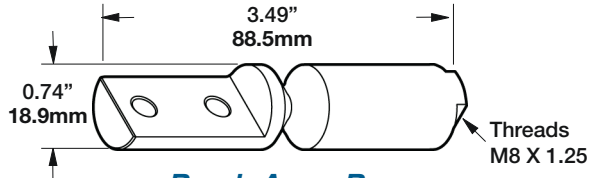
Base
36564800714
36564801270

Not Shown

46683301980 Cable
56743300500-Rebuild Sensor Rebuild HNZ

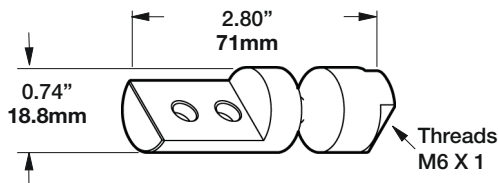
LASER

Miscellaneous



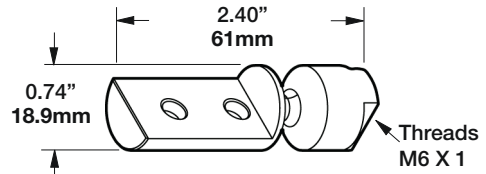
Break-Away Bar

36602300230 1.5KW
36602300550 2.0KW



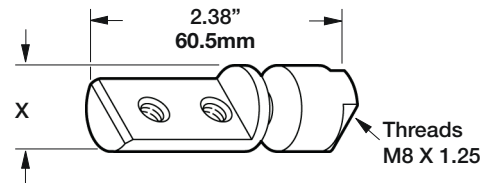
Break-Away Bar

46572301013



Break-Away Bar

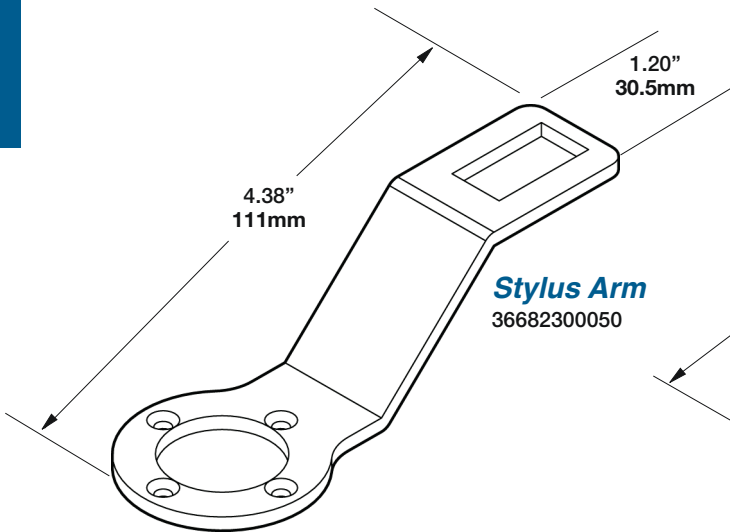
36572301012 1.0KW
46522300241



Break-Away Bar - X Dimension

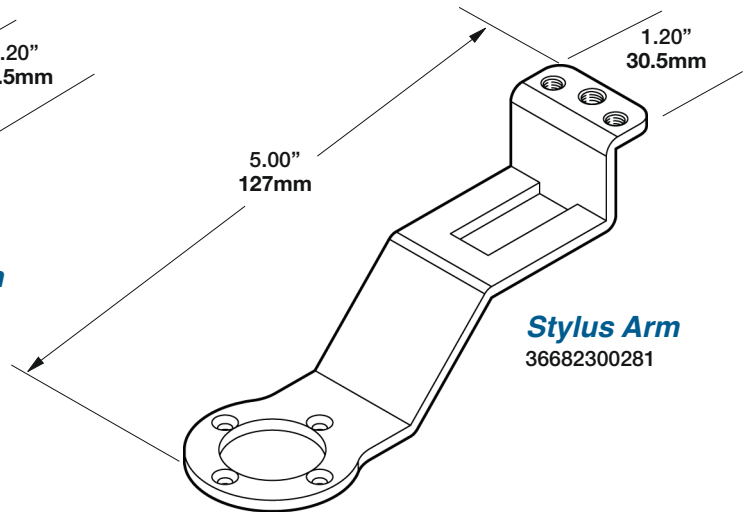
36682300280	.79	19.9mm
36673300280	.73	18.6mm

LASER



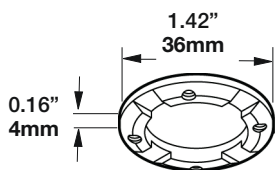
Stylus Arm

36682300050



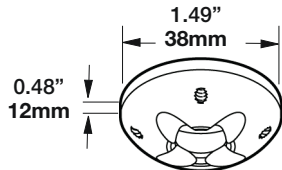
Stylus Arm

36682300281



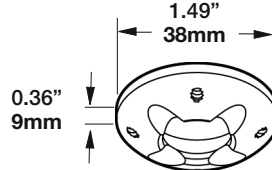
Stylus Foot 1KW

46512300520



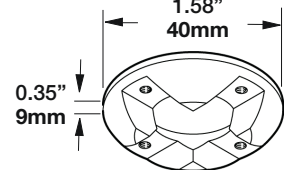
Stylus Foot 1.5KW

46572301041	Brass
46572301042	Brass
46572301042S	Steel
46572301041T	Teflon



Stylus Foot 2.0KW

4660235070	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"	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"

Phase Retarder

P/N	Material	Diameter	Edge Thickness
Z50MB000040	Cu	1.5"	.250"
Z50ZZ007260	Cu	3.0"	.250"

Zero Phase Shifters

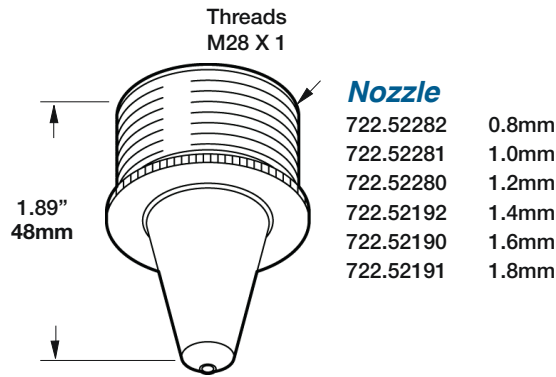
P/N	Material	Diameter	Edge Thickness
Z50MB000030	Cu	40mm	7.5mm
Z50MB000060	Cu	60mm	10mm
Z50MB000070	Cu	50mm	10mm

Total Reflector

P/N	Material	Diameter	Edge Thickness
4L104184-01	Si	1.75"	.375"

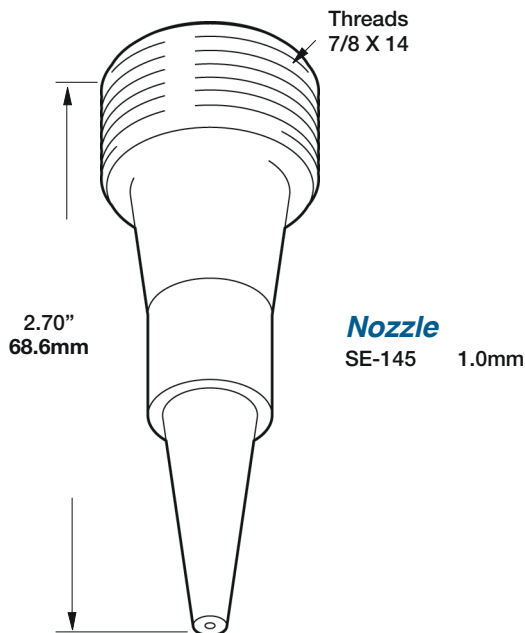
40
MG[®]

MISCELLANEOUS

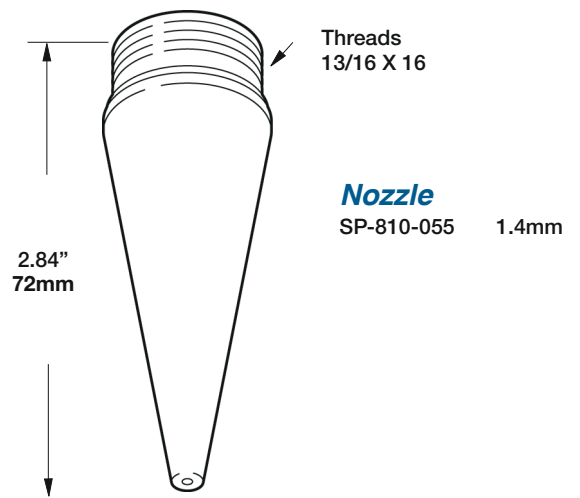


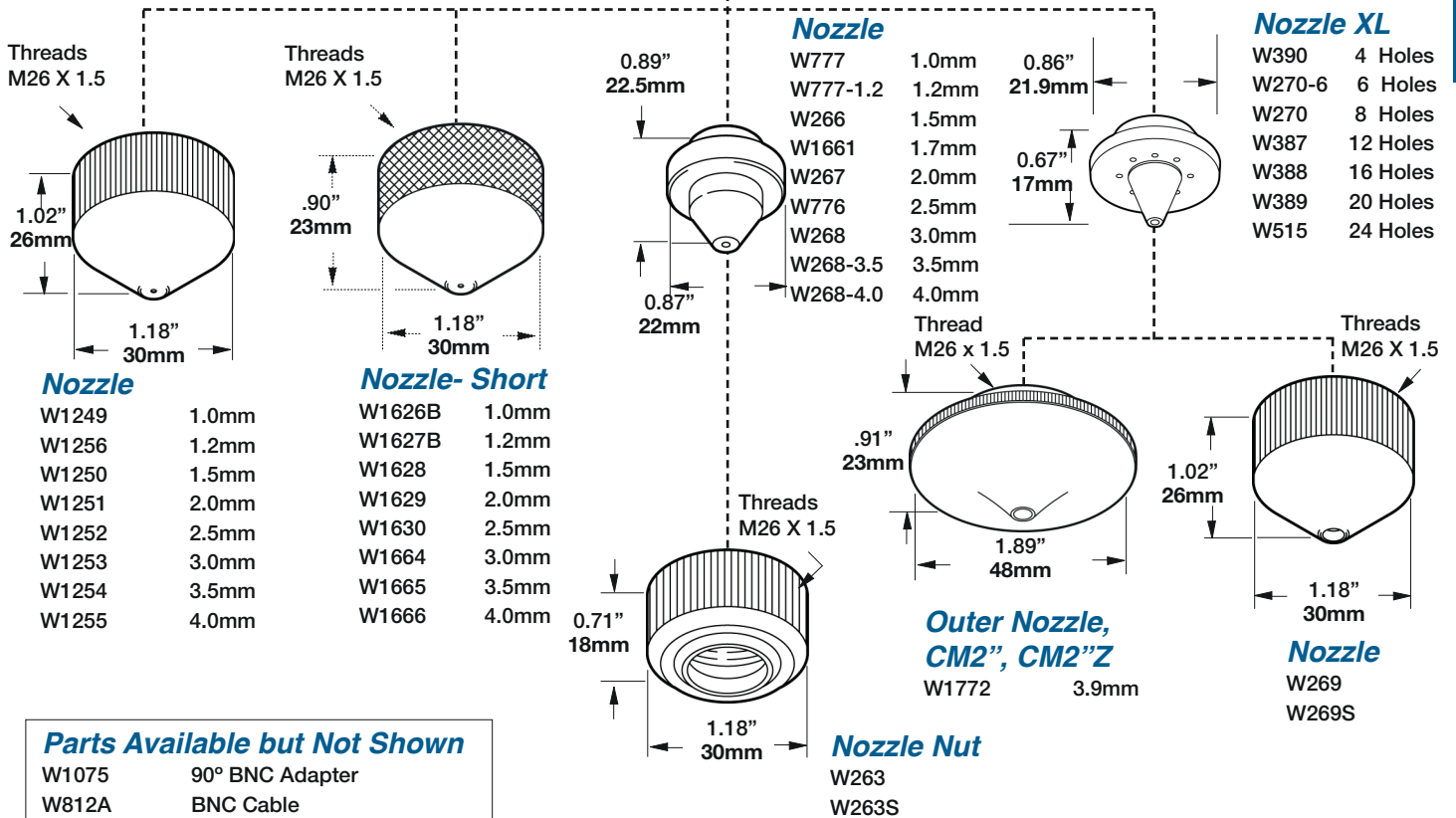
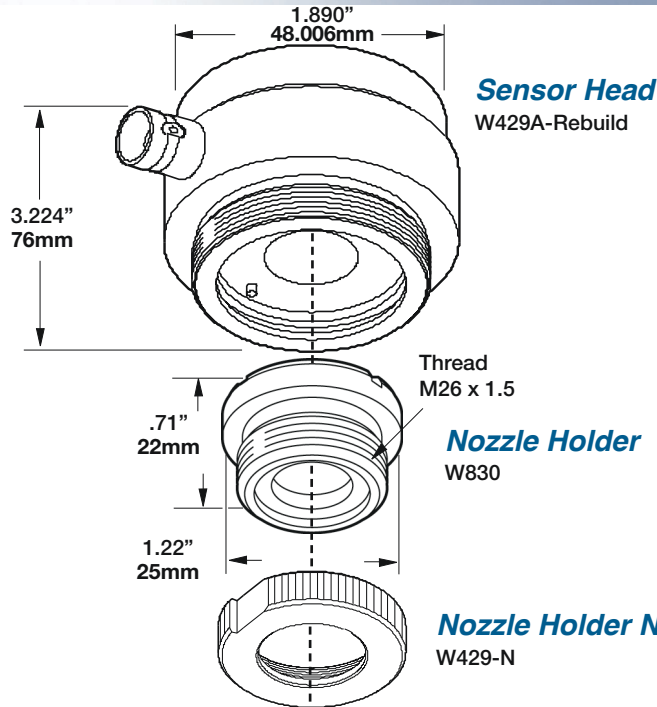
LASER

ROFIN SINAR[®]



SPECTRA PHYSICS[®]





Parts Available but Not Shown

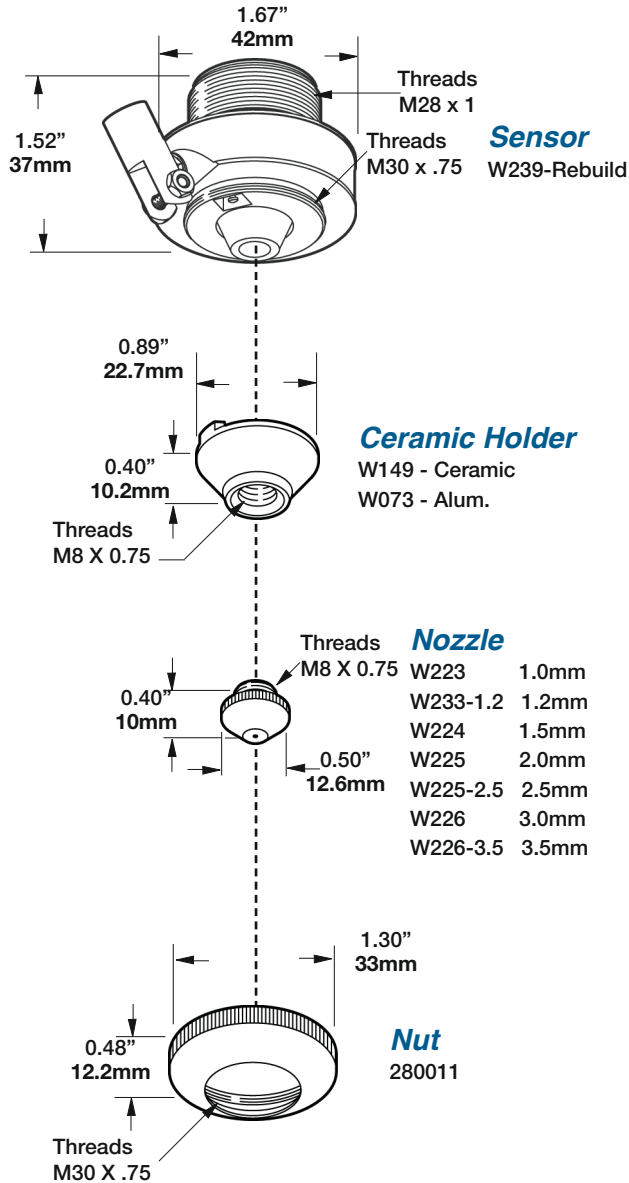
- W1075 90° BNC Adapter
- W812A BNC Cable

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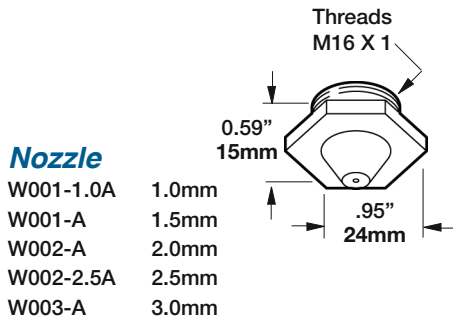
MITSUBISHI[®]

2.5"Z/J

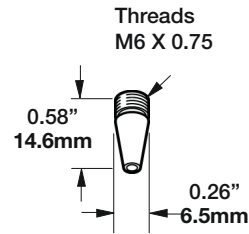
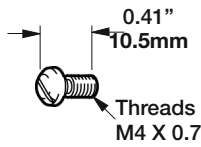
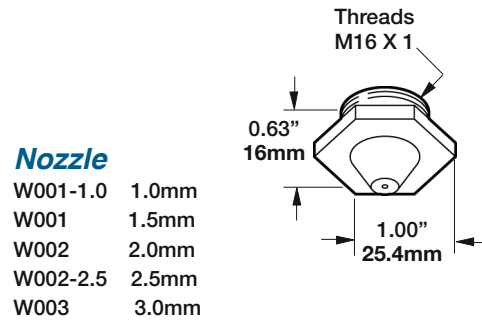
LASER



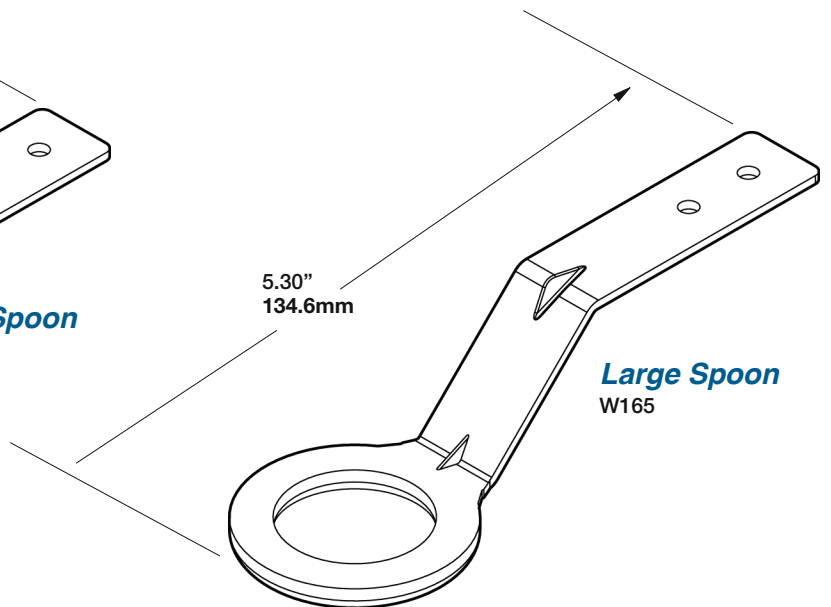
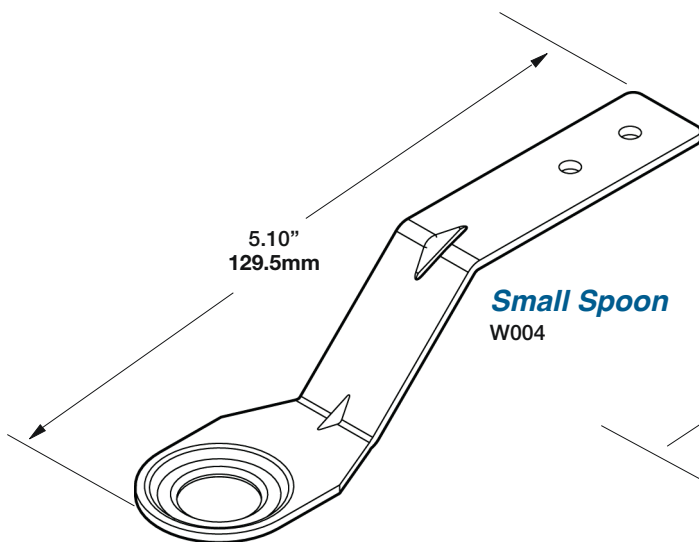
Contact Head



Contact Head



LASER



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

Output Couplers

P/N	Material	Diameter	Edge Thickness	S1	S2
R259	ZnSe	1.5"	.236	10mcc/17%	15mcc/ar
R500	ZnSe	1.5"	.236"	20mcc/30%	po/ar
R508	ZnSe	1.5"	.236"	10mcc/30%	10mcc/ar
R519	ZnSe	1.5"	.236"	10mcc/17%	10mcc/ar
R570	ZnSe	2.0"	.236"	14mcc/17%	20mcc/ar

Rear Mirror

P/N	Material	Diameter	Edge Thickness	S1	S2
R003	ZnSe	1.5"	.236"	20mcc/99%	po/ar

Phase Retarder

P/N	Material	Diameter	Edge Thickness
R004	Si	2.0"	.200"

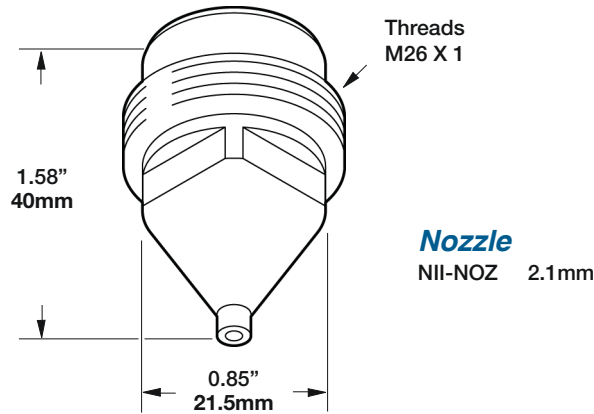
Zero Phase Shifters

P/N	Material	Diameter	Edge Thickness
R051	Cu	60mm	6mm
R160	Cu	3.0"	6mm
W102	Cu	50mm	5mm

Total Reflectors

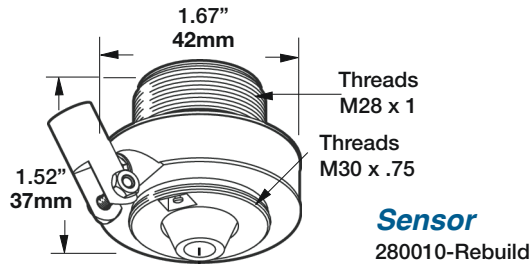
P/N	Material	Diameter	Edge Thickness
R106	Si	1.1"	6mm
R107	Cu	50mm	9mm

NIIGATA®

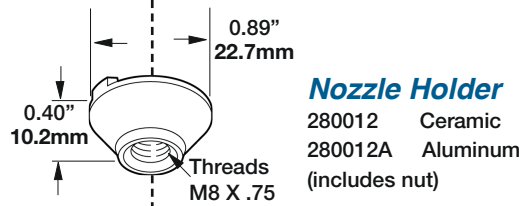


PRECITEC®

SENSOR SYSTEM 2.5" Z/J

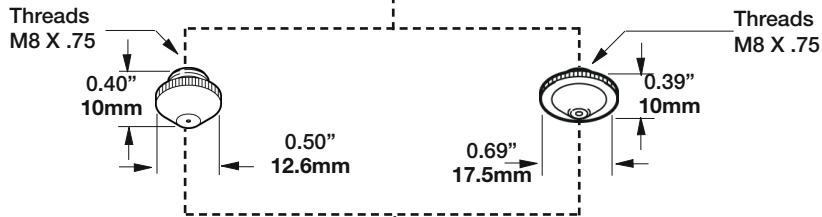


LASER



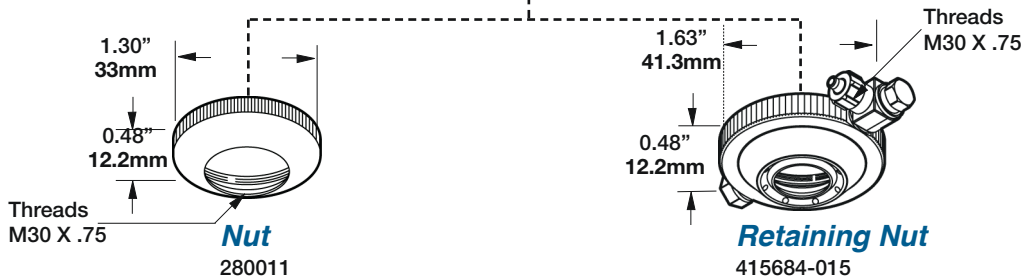
Nozzle

- 280013 0.8mm
- 280014 1.0mm
- 280015 1.2mm
- 280015-1.3 1.3mm
- 280016 1.5mm
- 280937 2.0mm
- 280937-2.5 2.5mm
- 280927 3.0mm



Nozzle

- 281024 1.5mm
- 281024-1.8 1.8mm

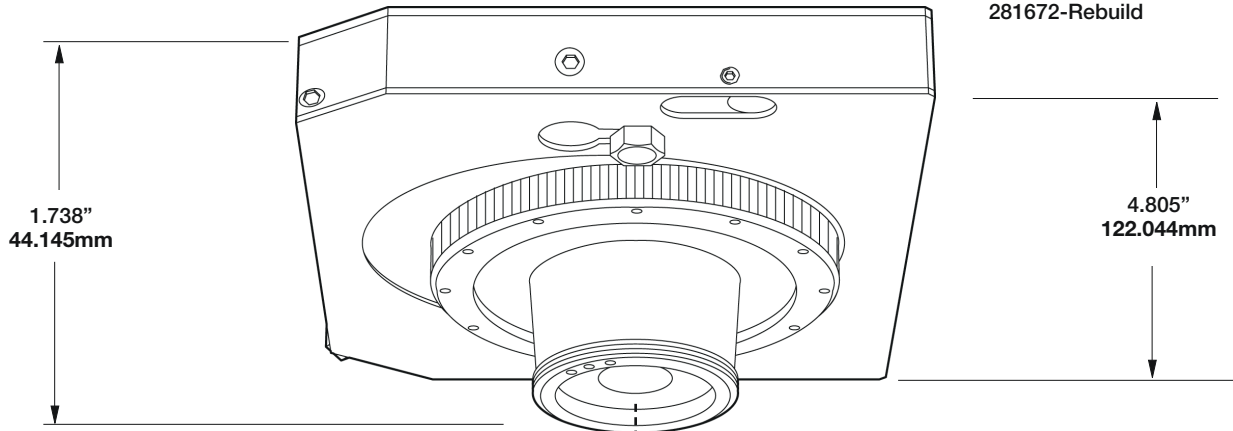


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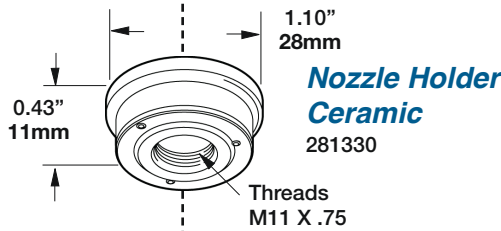
PRECITEC[®]

Sensor - HP2

281672-Rebuild

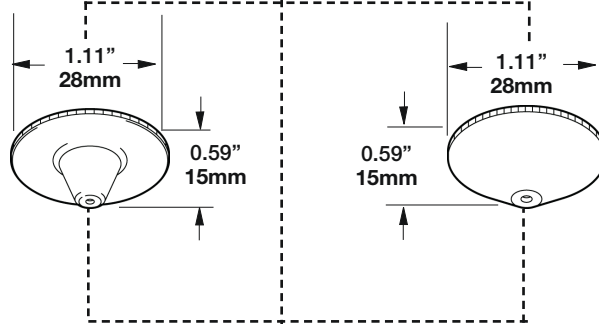


LASER



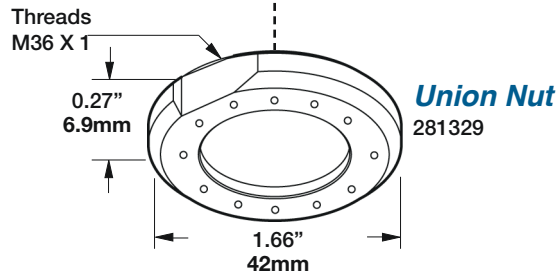
Nozzle DE HP

Part # / Alternate Part #	Size
281590 / P0591-569-00008	0.8mm
281331 / P0591-561-00010	1.0mm
281351 / P0591-562-00012	1.2mm
281352 / P0591-563-00015	1.5mm
281353 / P0591-564-00018	1.8mm
281354 / P0591-565-00020	2.0mm
281591 / P0591-566-00025	2.5mm

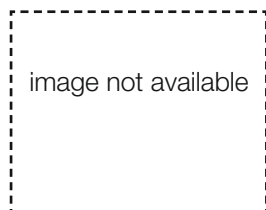


Nozzle DE HP N

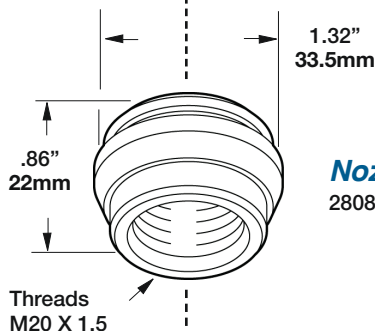
Part # / Alternate Part #	Size
281548 P0591-571-00010	1.0mm
281549 P0591-572-00012	1.2mm
281463 P0591-573-00015	1.5mm
281463-1.8	1.8mm
281550 P0591-575-00020	2.0mm
281551 P0591-576-00025	2.5mm



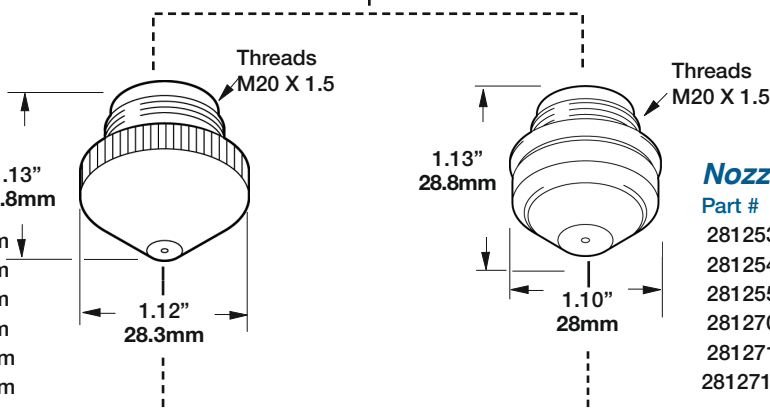
SENSOR SYSTEM 5"DX



Sensor Head
280033-Rebuild



Nozzle Holder
280831



Nozzle Non-Contact

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

Nozzle M1.5 DZ,DL,H

Part #	Alternate Part #	Size
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

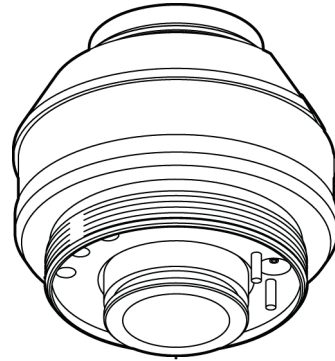


Union Nut
280025 Call for availability

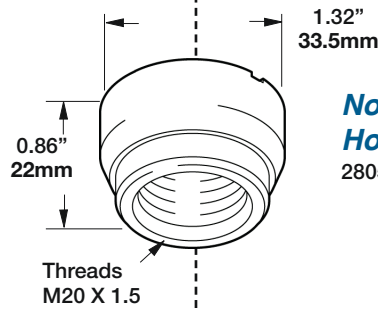
LASER

SENSOR SYSTEM 5"DXN

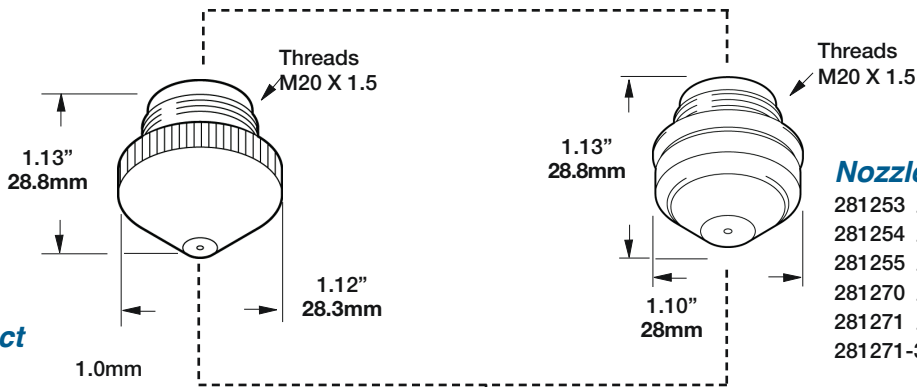
LASER



Sensor Head
280948-Rebuild



Nozzle Holder
280565

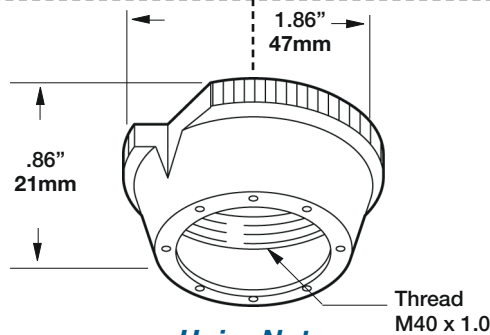


Nozzle Non-Contact

Nozzle M1.5 DZ,DL,H

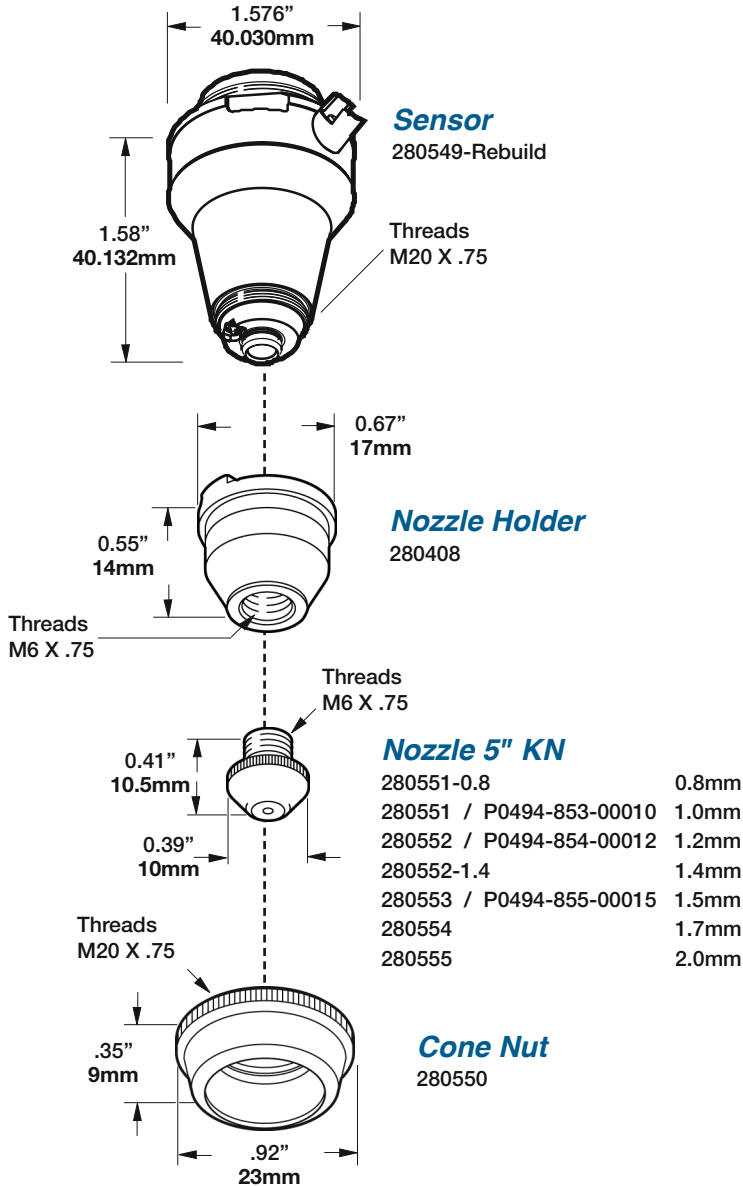
281253 / P0380-251-00010	1.0mm
281254 / P0380-252-00012	1.2mm
281255 / P0380-253-00015	1.5mm
281270 / P0380-254-00020	2.0mm
281271 / P0380-255-00025	2.5mm
281271-3.0	3.0mm

280029	1.0mm
280030	1.2mm
280028	1.5mm
280028-1.7	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

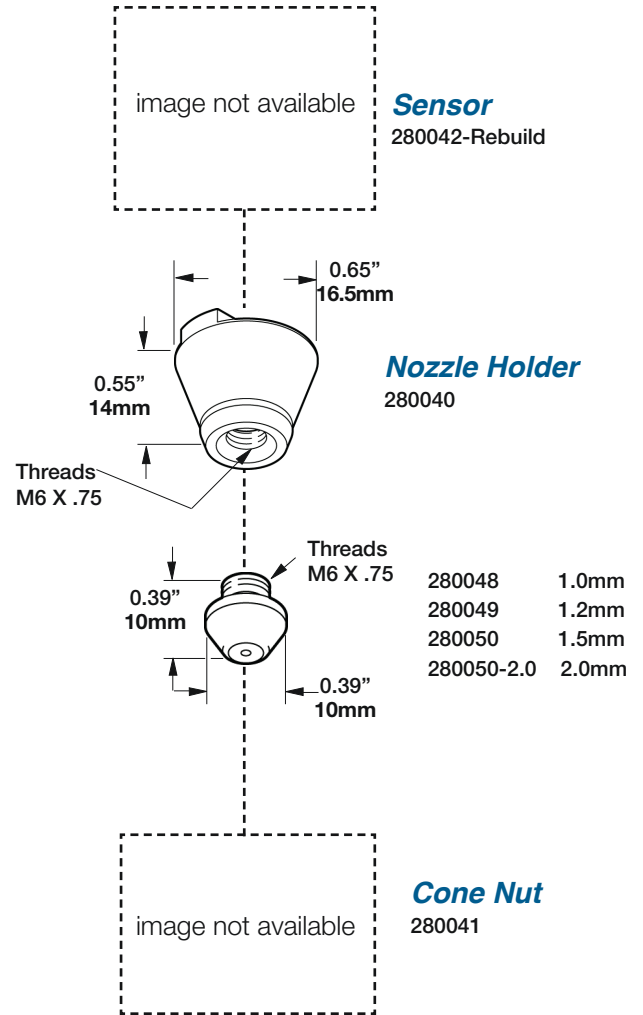


UnionNut
280566

SENSOR SYSTEM 5"KN



SENSOR SYSTEM 5"K



LASER

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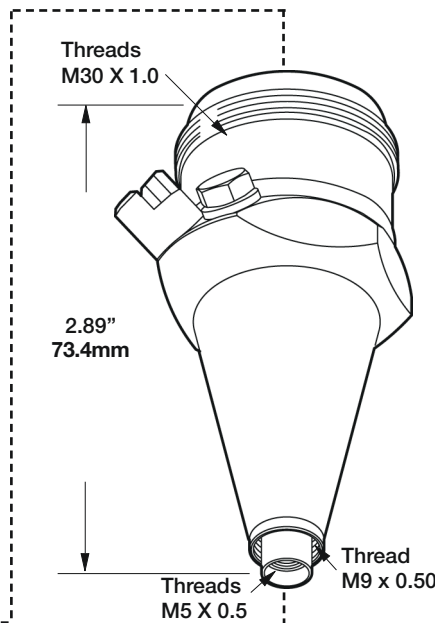
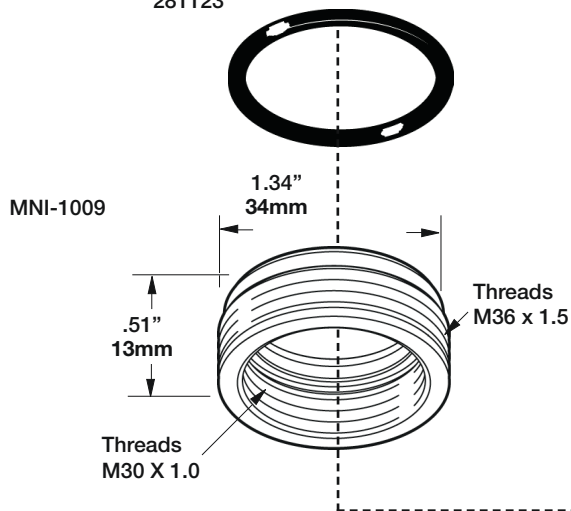
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PRECITEC[®]

M1.5 HNZ / CZ

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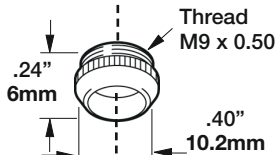
O-Ring
281123



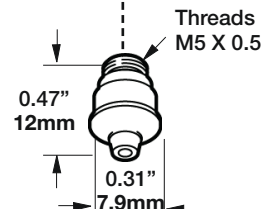
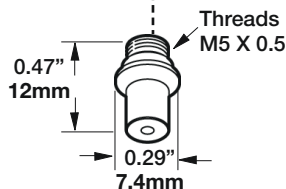
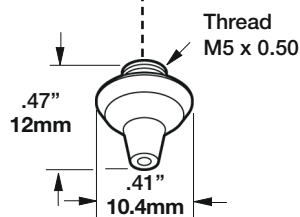
Sensor Insert HNZ
P0354-110-00001-Rebuild

Sensor Insert CZ
Not Shown
P0356-201-00001-Rebuild

Union Nut
281003
P0352-311-00001

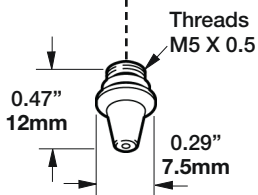


Union Nut -
Not Available @ This Time
281004 / P0352-312-00001



Tip, Cu - 3D

- P0491-1001-00015 1.5mm
- P0352-381-00015 1.5mm
- P0352-382-00020 2.0mm
- P0352-383-00010 1.0mm
- P0352-384-00012 1.2mm
- 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

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 - Adige BLM LT8

- P0578-0414-00018 1.8mm
- P0578-0413-00015 1.5mm
- P0578-0415-00020 2.0mm

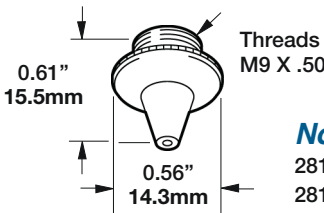
Sensor Insert MCX

P0589-400-00001-Rebuild/
778548-Rebuild



Sensor Insert BNC

P0589-800-00001-Rebuild/
562313-Rebuild



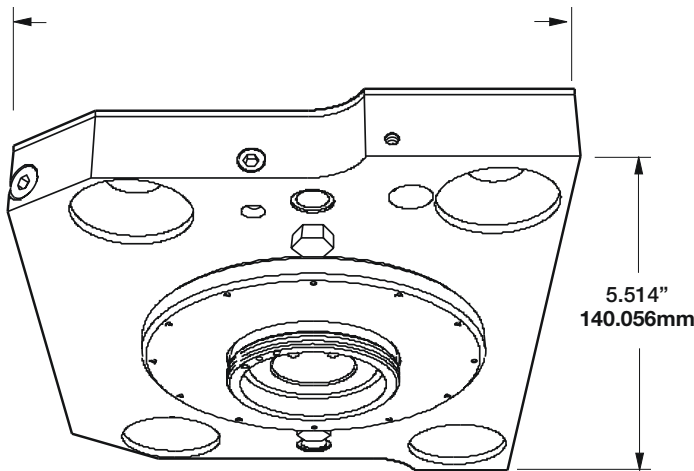
Nozzle

281561/778550/P0589-425-00012	1.2mm
281814/149957/ P0589-427-00015	1.5mm
281814-2.0	2.0mm

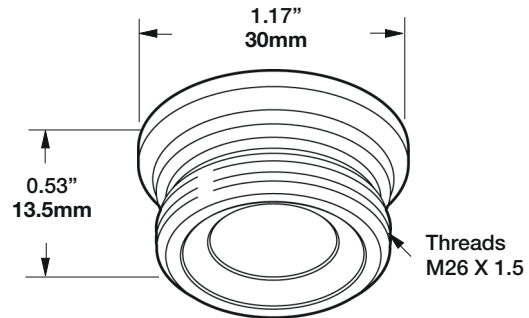
Parts Available but Not Shown

149884/D5589-801-05000	Sensor Cable
149951	Cable MCX
562311	Cable BNC
563983	Cable BNC
461443304470	Single Nozzle 1.2mm
461443304450	Single Nozzle 1.5mm
461443304460	Single Nozzle 2.0mm
461443304480	Single Nozzle 2.5mm
461443304490	Single Nozzle 3.0mm

HP2MZ



Sensor - HP2MZ
P0594-820-00001-Rebuild



Nozzle Holder Aluminum
P0594-860-00001

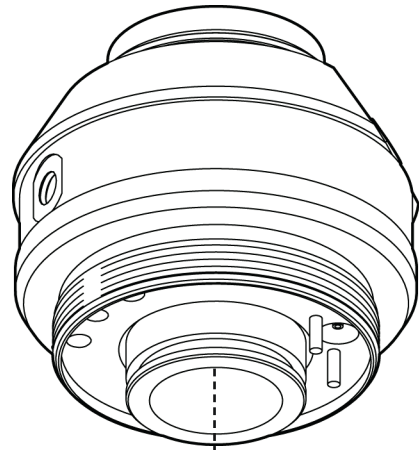
LASER

52

PRECITEC[®]

M1.5 / DZ

LASER

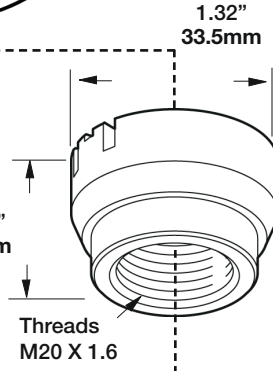
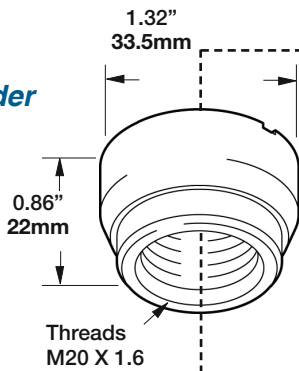


Sensor Insert

281145-Rebuild / P0380-110-00002-Rebuild

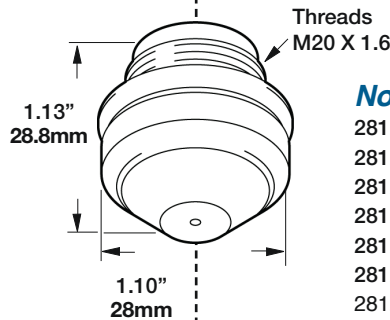
Nozzle Holder

280565



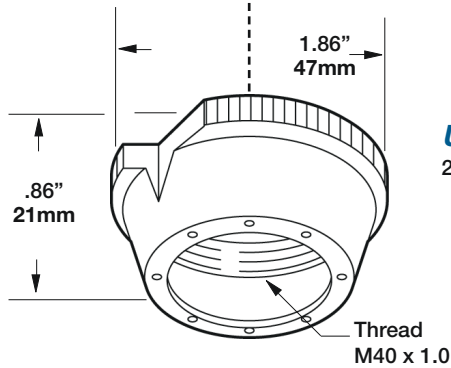
Nozzle Holder

281146/P0380-211-00001



Nozzle M1.5 DZ,DL,H

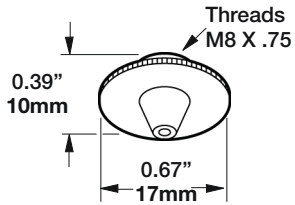
281253/P0380-251-00010	1.0mm
281254/P0380-252-00012	1.2mm
281255/P0380-253-00015	1.5mm
281270/P0380-254-00020	2.0mm
281271/P0380-255-00025	2.5mm
281271-3.0	3.0mm
281271-4.0	4.0mm



UnionNut

280566

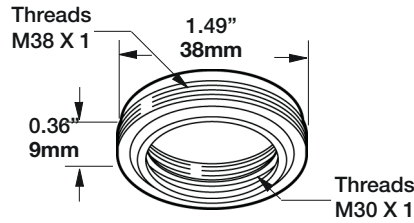
SCL



Nozzle

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

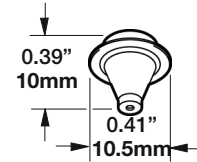
KN, DZ, DXN, DX



Insulator

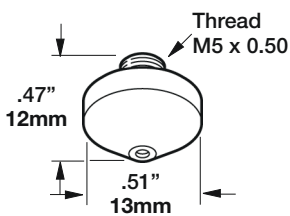
280064

YK52



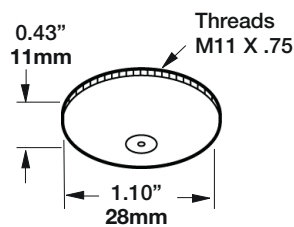
Nozzle

281243	1.0mm
281242	1.5mm



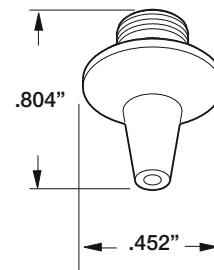
Tip, Cu - 2D

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



Nozzle

281552	1.2mm
281553	1.5mm
281554	2.0mm



Nozzle

P0787-483-00015	1.5mm
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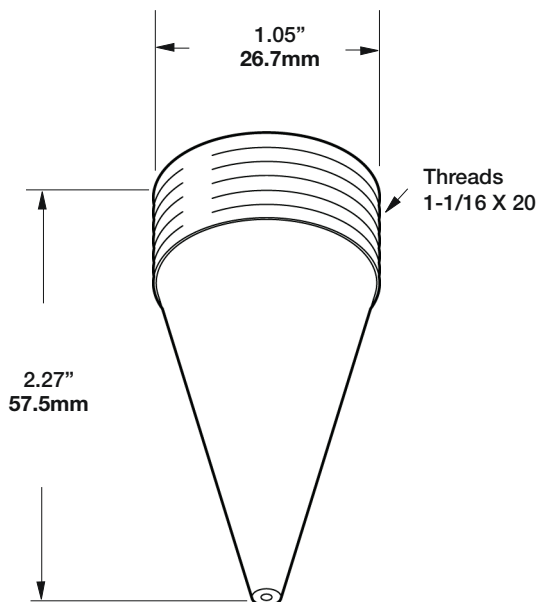
LASER

54

RAYTHEON[®]

Nozzle

LA-488 1.3mm

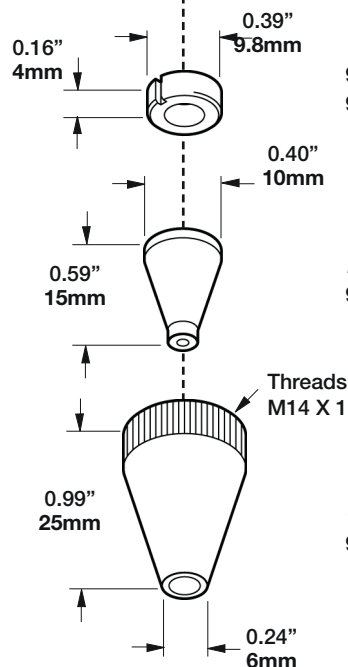
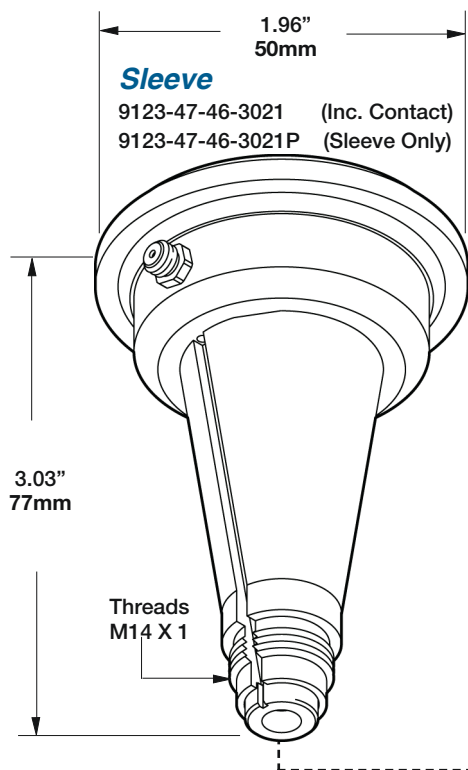


LASER

SHIBUYA[®]

Sleeve

9123-47-46-3021 (Inc. Contact)
9123-47-46-3021P (Sleeve Only)



Contact

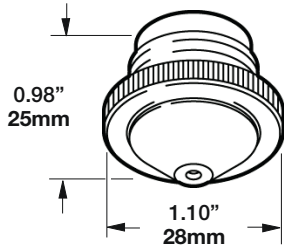
9123-47-49-3020 Ceramic
9123-47-49-3020B Brass

Nozzle

9123-47-47-3020

Cap

9123-47-50-3020

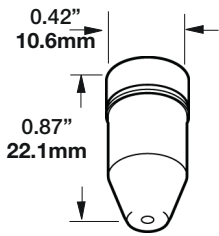


Nozzle Standard

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

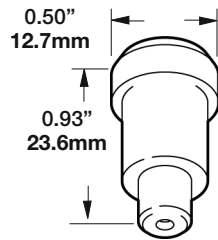
Nozzle High Pressure

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



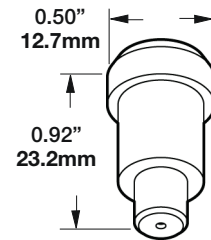
Nozzle

1001019-000	1.0mm
1001020-000	2.0mm



Nozzle

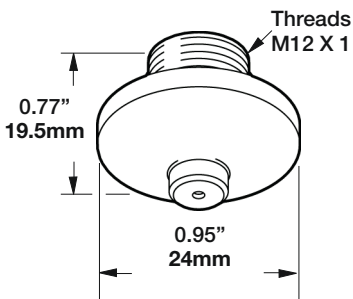
123409-100	2.0mm H.P.
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Nozzle

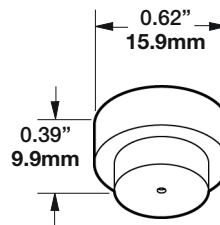
123409-000	1.2mm L.P.
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LASER



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® LASERS

Focusing Lenses

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"

Rear Mirror

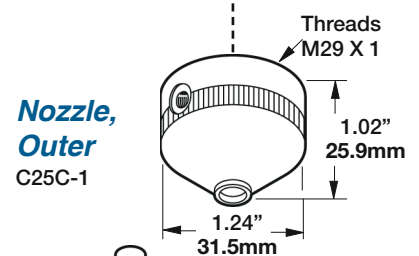
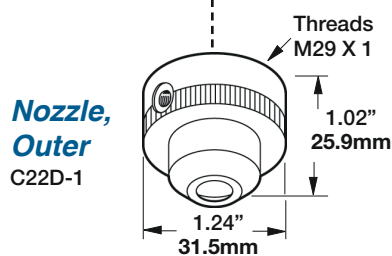
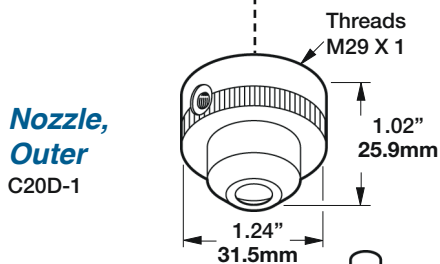
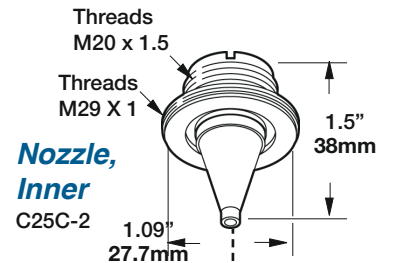
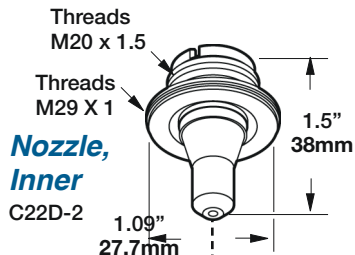
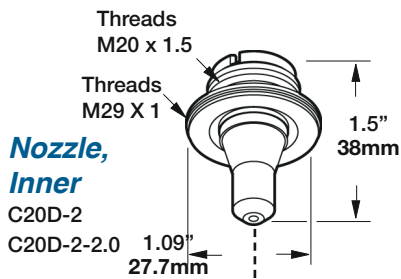
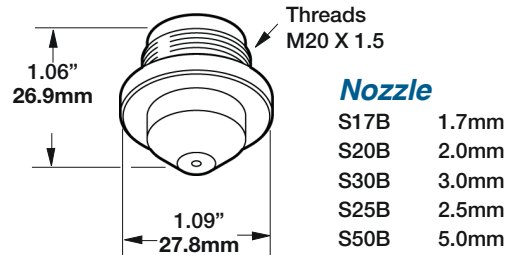
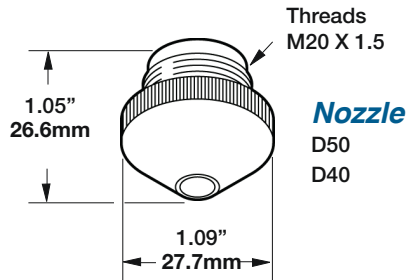
P/N	Material	Diameter	Edge Thickness	S1	S2
29100047	Ge	1.5"	.315"	35mcc/99.5%	po/ar

Phase Retarder

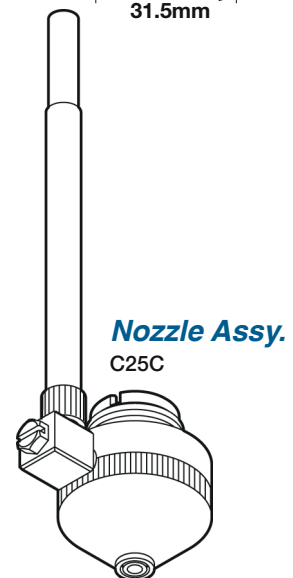
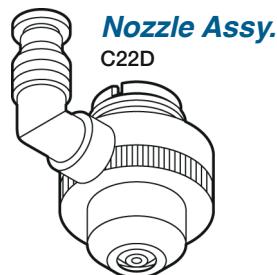
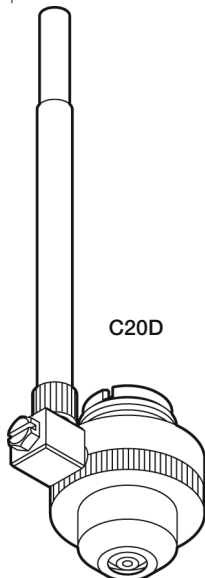
P/N	Material	Diameter	Edge Thickness
29100003	Cu	2.0"	.375"
29100039	Si	2.0"	.200"
29100060	Cu	3.0"	.500"

Zero Phase Shifters

P/N	Material	Diameter	Edge Thickness
29100002	Cu	2.0"	.375"
29100038	Si	2.0"	.200"
29100051	Cu	3.0"	.500"

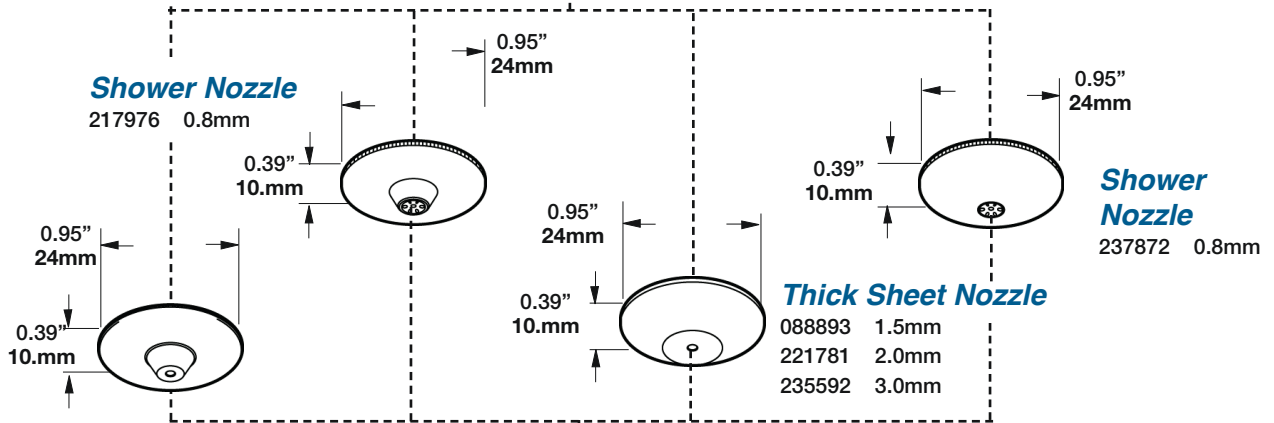
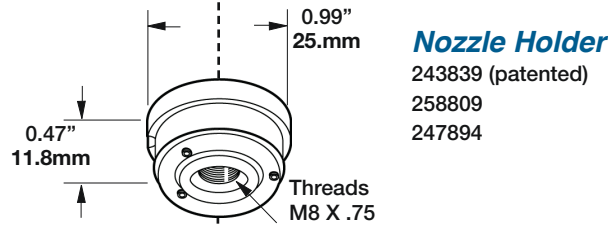
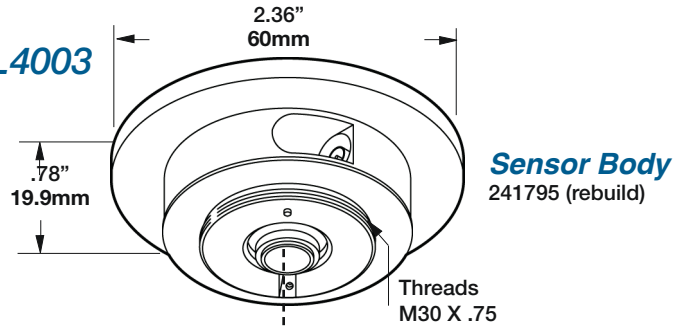


- Not Shown**
- C30E Nozzle Assy
 - C30E-1 Nozzle Outer
 - C30E-2 Nozzle Inner
 - C20E-2 Nozzle Inner
 - C20E-2-1.5 Nozzle Inner
 - C20E-2-2.2 Nozzle Inner
 - C20E Nozzle Inner
 - C20E-1 Nozzle Inner

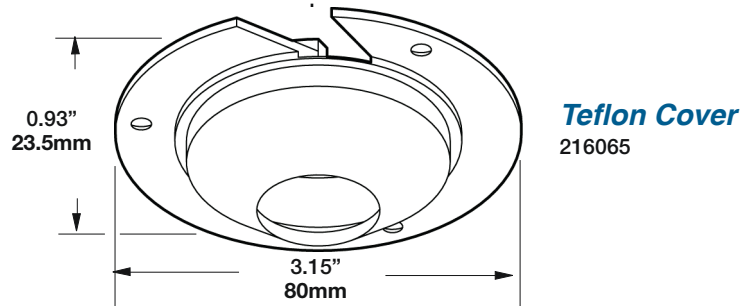
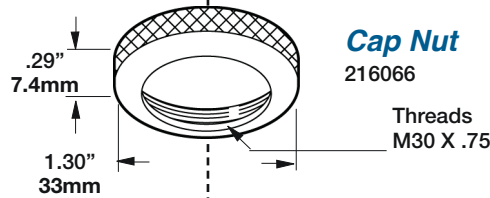


LASER

2.5S/TT
L1003, L2503, L3003, L4003

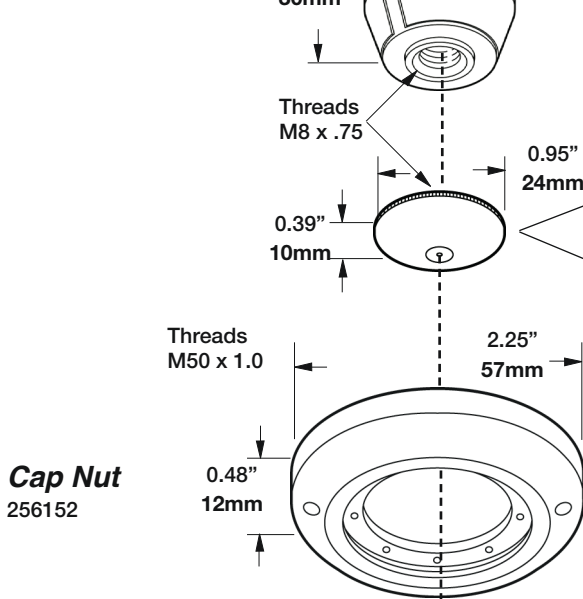
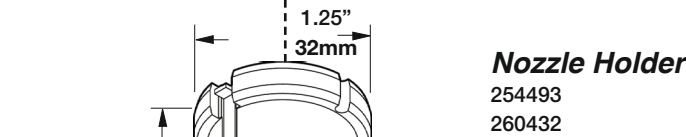
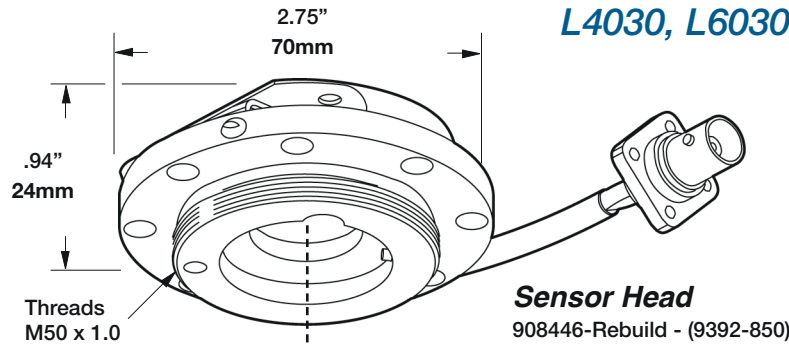


- Nozzle**
- 215780 0.8mm Std.
 - 087658 1.0mm Std.
 - 088894 1.4mm H.P.
 - 217867 1.7mm H.P.

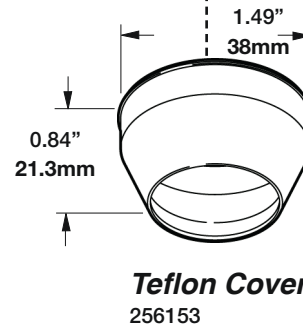
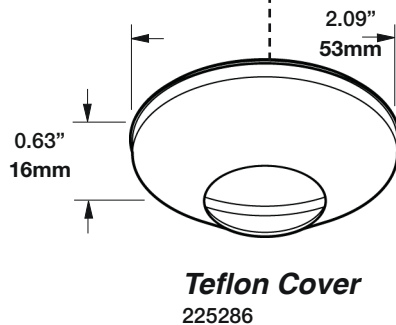


LASER

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



Nozzle		Nozzle, Chrome	
124561	0.8mm	352280	0.8mm
124562	1.0mm	352281	1.0mm
124562-1.1	1.1mm		
237498-1.2	1.2mm	352282	1.2mm
124562-1.5	1.5mm	352282-1.5	1.5mm
124564	2.3mm		
126933	2.3mm	352285	2.3mm
237504	3.0mm		
237501	1.7mm	352284	1.7mm
237503	2.0mm	352287	2.0mm
942742	2.7mm	352286	2.7mm
237497	1.4mm	352283	1.4mm
237500	1.5mm		



LASER

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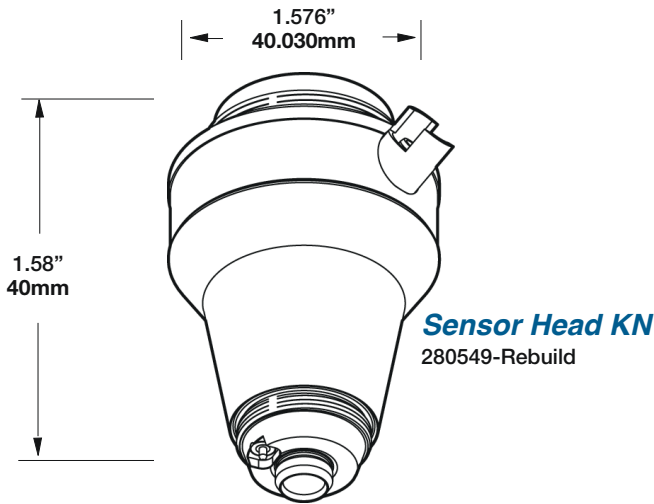
60

TRUMPF®

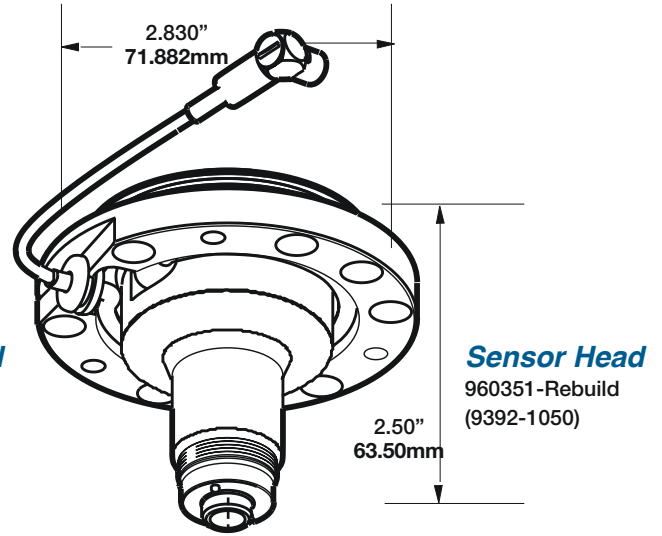
KN / Tubematic

LASER

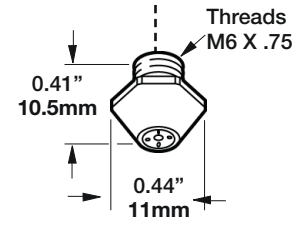
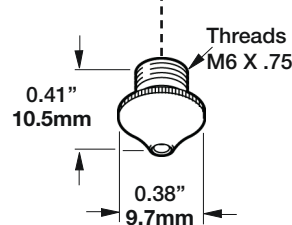
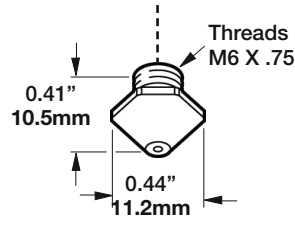
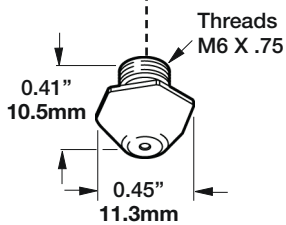
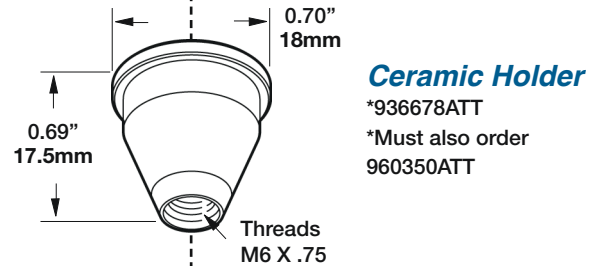
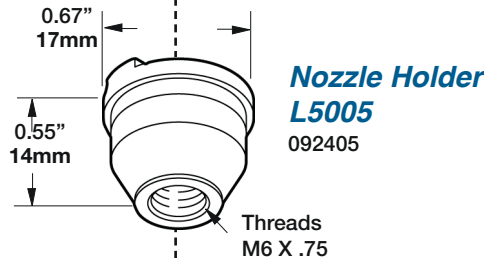
KN



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.
 - 227144 1.7mm H.P.
 - 225213 1.7mm H.P.

- Nozzle L5005**
- 226939 1.0mm Std.
 - 226940 1.4mm Std.
 - 126156 2.3mm H.P.

- Nozzle**
- 135320 1.0mm Std.
 - 135318 1.4mm H.P.
 - 126157 1.75mm H.P.

- Shower Nozzle**
- 955043

American Torch Tip Company is in no way affiliated with the above-named original equipment manufacturer(s) ("OEM"). References to the above-named machines, torches, and numbers are for your reference only. Most parts advertised for sale are made by or for American Torch Tip, and other parts as indicated, are original parts manufactured by above-named OEM and are simply being re-sold by American Torch Tip. Footnotes: * = OEM; # = American Torch Tip is licensed to make and sell this part by named manufacturer; ATTC and ATT suffix = This part is an original American Torch Tip design and is not manufactured identical to the OEM design; © indicates a registered trademark, trade name, or product name of the above-named company. PHD®, PHDX™, Lightning®, Waltec™, Integra™, Lasertec Laser Division of American Torch Tip®, Multi-Use™ and ProMix™ are trademarks owned by American Torch Tip Company. © Copyright 2018, American Torch Tip Company

Sensor Insert MCX

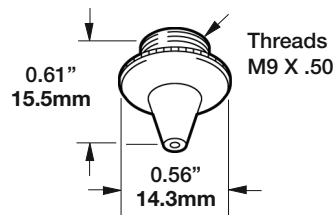
P0589-400-00001-Rebuild/
778548-Rebuild



Sensor Insert BNC

P0589-800-00001-Rebuild/
562313-Rebuild

LASER



Nozzle

281561/778550	1.2mm
281814/149957	1.5mm
281814-2.0	2.0mm

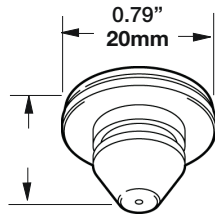
Parts Available but Not Shown

149884/D5589-801-05000	Sensor Cable
149951	Cable MXC
562311	Cable BNC
563983	Cable BNC
778560	Focus Lens Set

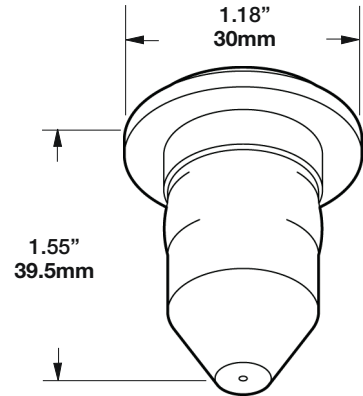
TC 240, TC 260, TC 300
TrueLaser 3030, 5030, 5040, 5060

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.

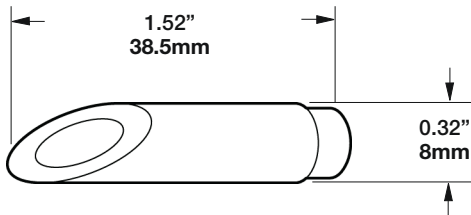


Nozzle For TC 300
 060653-3 1.0mm



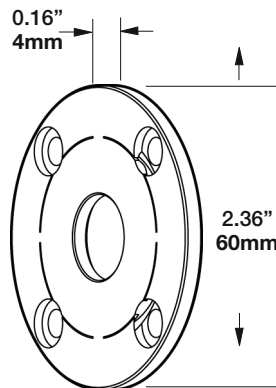
Blow Tube for TC Series

256184



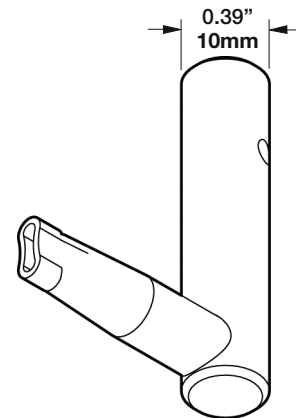
Cover Plate for TC Series

234485



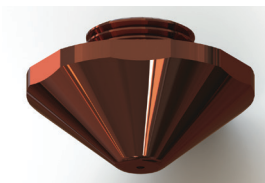
Blow Pipe for TC Series

088557



NOZZLE for TrueLaser 2D

1324858	.8 mm
1324860	1.0 mm
1324861	1.2 mm
1324863	1.4 mm
1324864	1.7 mm
1324865	2.0 mm
1324866	2.3 mm
1324867	2.7 mm



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TRUMPF® FOCUSING LENSES

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"

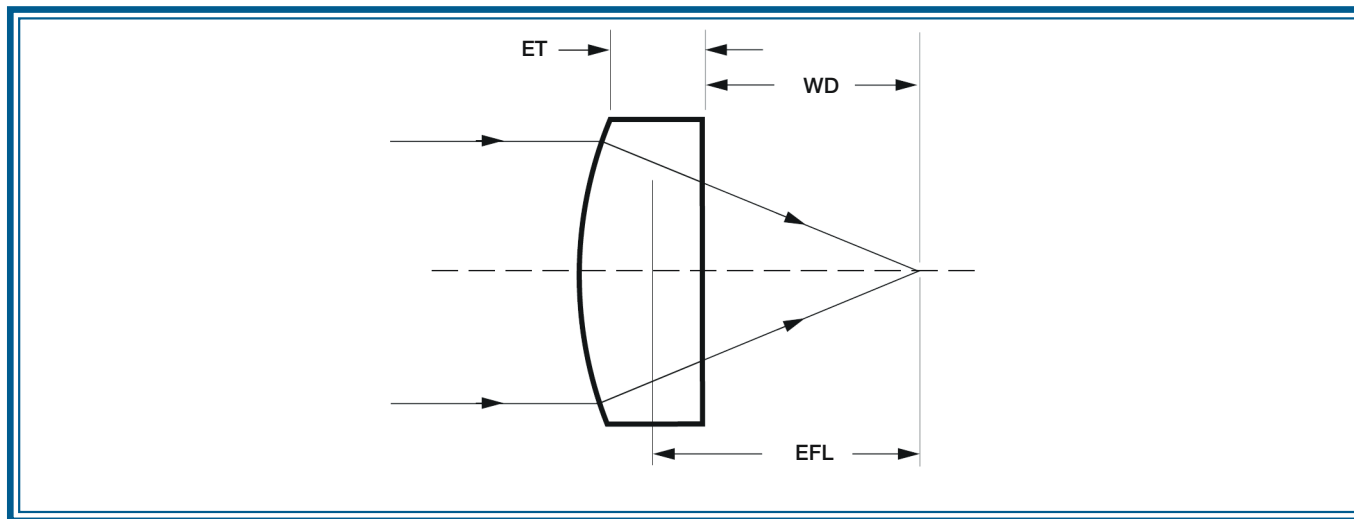
PLANO CONVEX FOCUSING LENSES

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.

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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.

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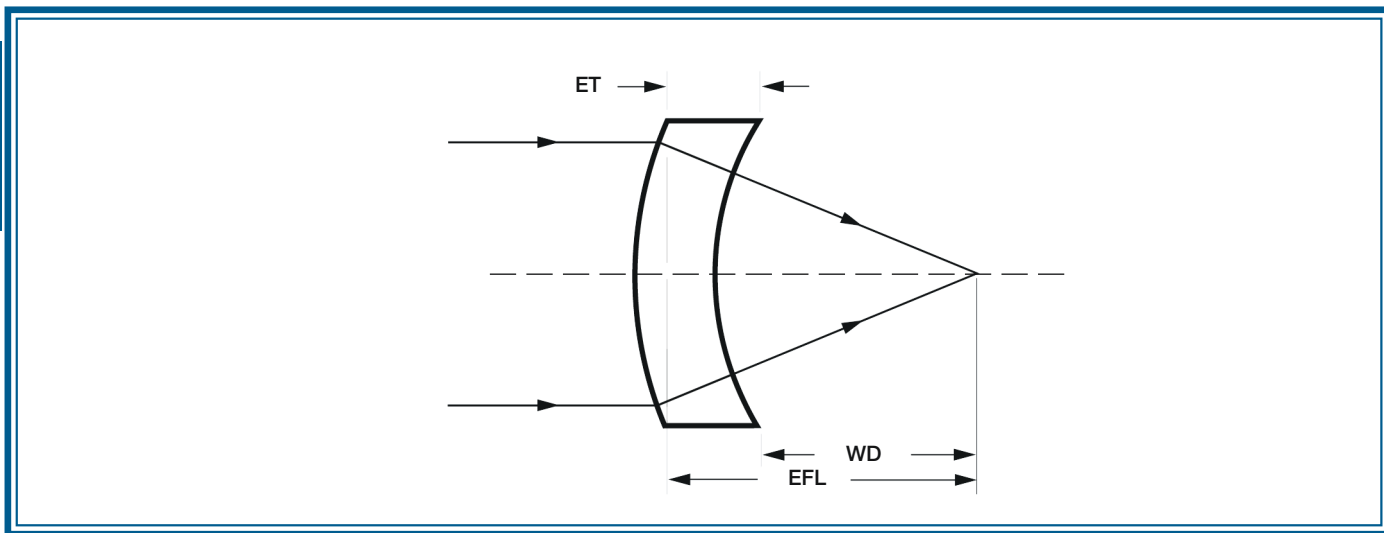
MENISCUS

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		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%



LASER

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

Partial reflectors are primarily used within the laser cavity. These optics are designed to reflect a known percentage of the incident laser beam and transmit the rest. When used as output couplers, the transmitted portion of the laser beam is used for applications such as cutting and welding. Partial reflectors that transmit a very small portion (0.2 to 1.0%) of the laser's energy are used to monitor the laser's power. This application generally uses germanium (Ge) as the substrate.

Standard Specifications:

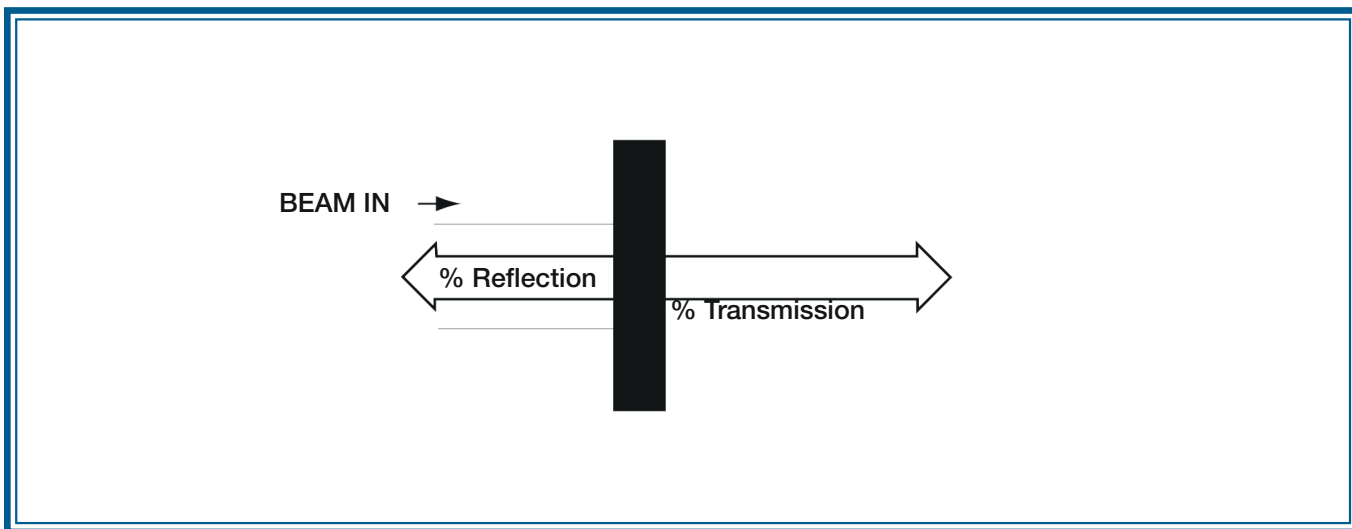
Dimensional Tolerances:

Diameter:	+0.000"/-0.005"
Thickness:	+0.005"/-0.010" plano +0.010" concave
Clear Aperture:	90% of diameter
Edge Thickness Variation:	≤ 0.002"
Parallelism:	≤ 3 arc minutes plano ≤ 5 arc minutes radiused

Surface Quality

Scratch-Dig:	20-10 or better
Figure:	1/40 wave at 10.6 microns

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* See system pages for available partial reflectors

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TOTAL REFLECTORS

Total reflectors, or mirrors, are designed for maximum reflectivity of a CO₂ laser beam. These mirrors are used either within a laser cavity as rear mirrors or folding mirrors, or external to the laser cavity as beam benders to deliver the beam to the work.

The three materials used are silicon, copper and molybdenum. Silicon is most common due to its low cost, good durability and thermal stability. Copper is used in high power applications because of its high thermal conductivity, but it is more costly and less durable than silicon. Molybdenum is ideal for many demanding, harsh environments due to its extremely tough surface.

Standard Specifications:

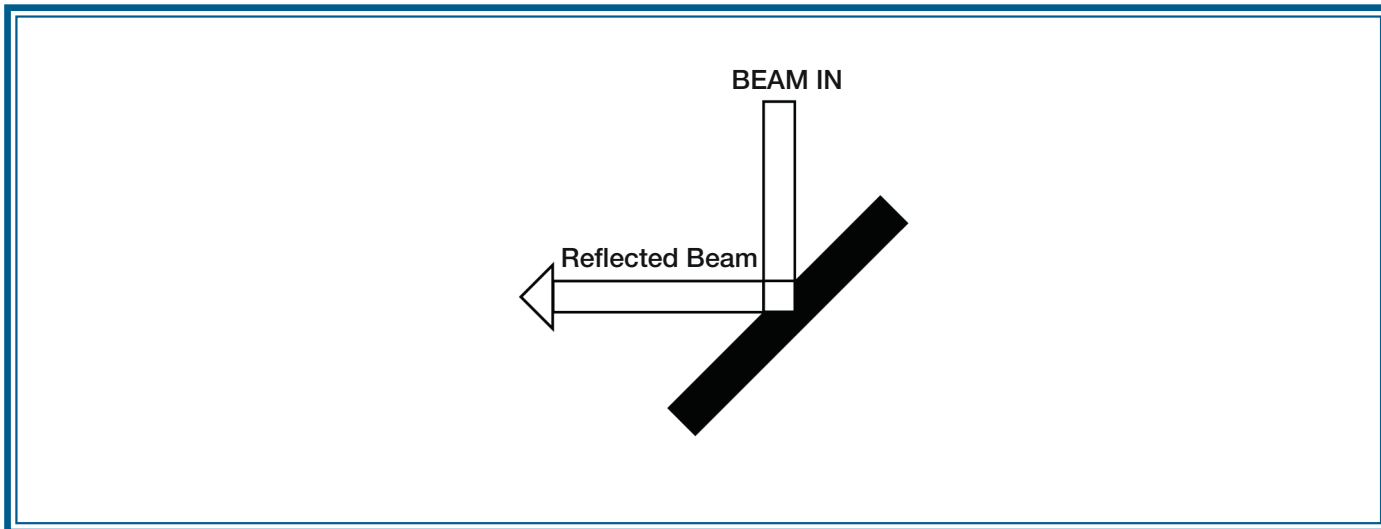
Dimensional Tolerances

Diameter:	+0.000"/-.005"
Thickness:	±0.010"
Parallelism:	≤3 arc minutes plano ≤5 arc minutes raediused
Clear Aperture:	90% of diameter

Surface Quality

Scratch-Dig:	40-20 to 20-10
Figure:	1/40 wave at 10.6 microns

LASER



* See system pages for available total reflectors

REFLECTIVE PHASE RETARDERS

Reflective phase retarders are used as beam bending mirrors outside the laser cavity. Ninety degree phase retarders, also known as circular polarizers, are used to eliminate kerf variations by converting linear polarization. Zero degree phase shifters are used between the 90° phase retarder and the final focusing lens in order to maintain control over the circularly polarized beam.

Standard Specifications:

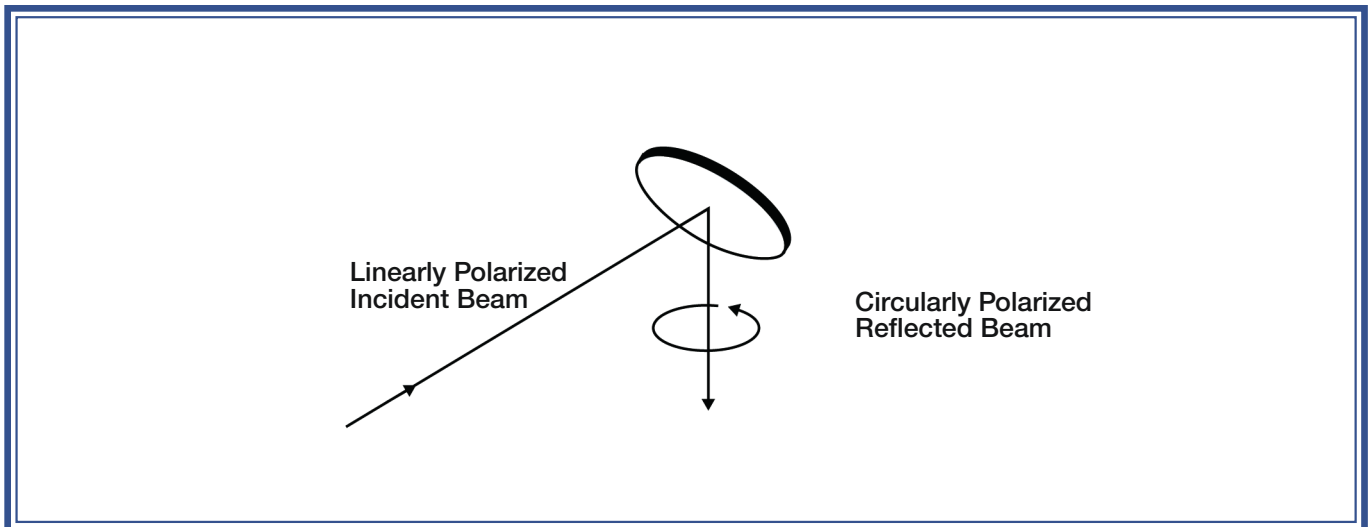
Dimensional Tolerances

Diameter:	+0.000"/-0.005"
Thickness:	+0.010"
Parallelism:	≤3 arc minutes
Clear Aperture:	90% of diameter

Surface Quality

Scratch-Dig:	40-20 to 20-10
Figure:	1/40 wave at 10.6 microns

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* See system pages for available total reflectors

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