





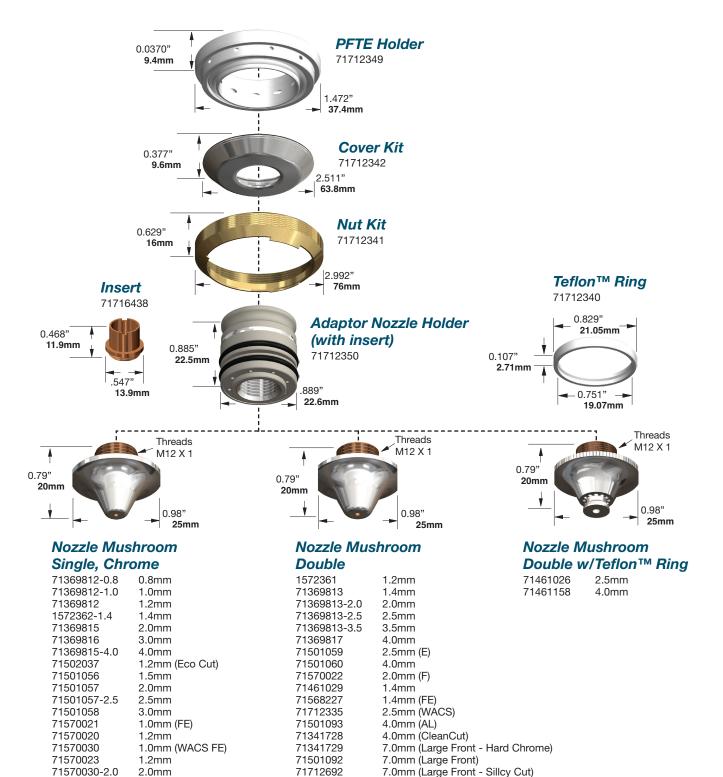
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71502043

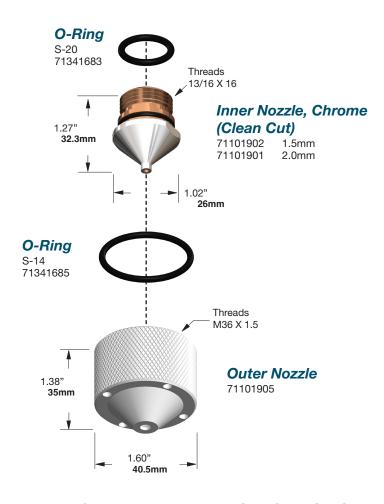
2.0mm (Hard Chrome)





#### AMADA® STYLE

#### COMPATIBLE WITH LASMAC 667/664 WATER ASSIST<sup>†</sup>





## Nozzle, Chrome (Clean Cut)

6506892-1.2 1.2mm 6506892 2.0mm



#### Inner Nozzle

62094003 2.0mm 62094004 3.0mm

#### LC667/664, Old Style Apelio

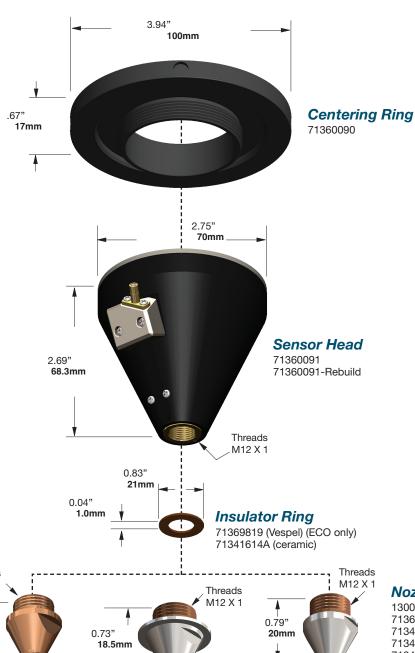


#### Nozzle (Clean Cut)

71102000 1.5mm 71102000-1.75 1.75mm 71101999 2.0mm 71101999-2.5 2.5mm



#### **COMPATIBLE WITH SENSOR SYSTEM HS95**†



#### Ext. Nozzle, **Chrome**

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



#### **Nozzle Double**

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

#### Nozzle, Chrome w/large flange

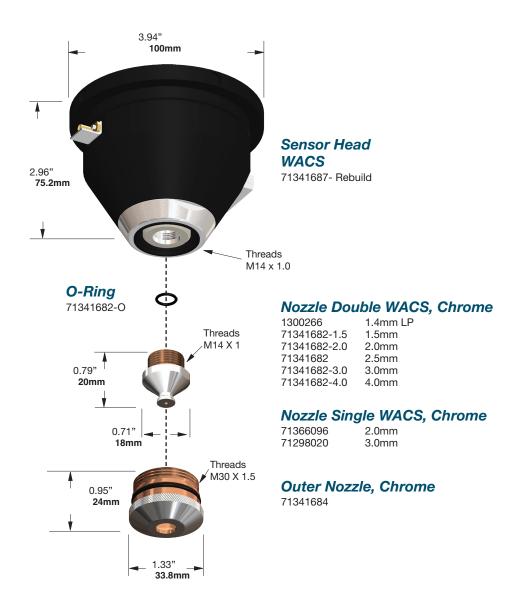
1664545U-1.0R 1664545U-1.5R

## LASER



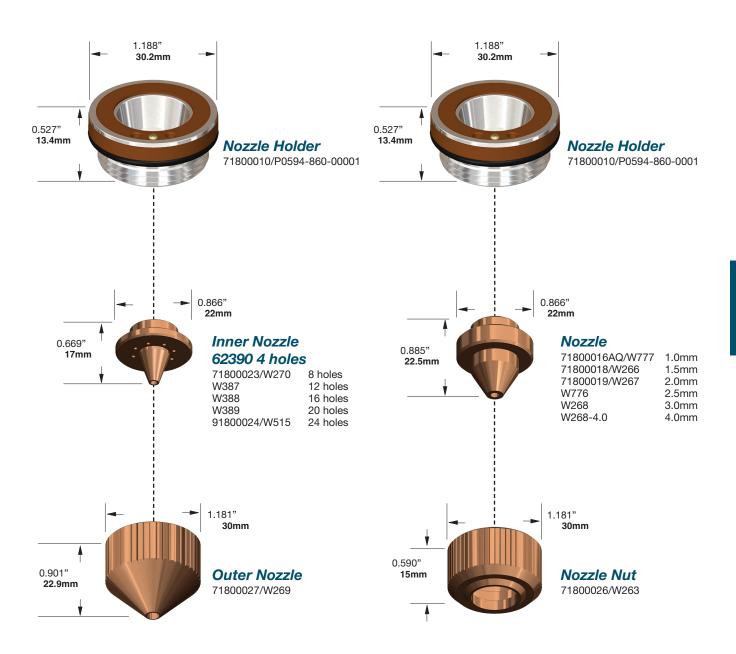
#### AMADA® STYLE

#### COMPATIBLE WITH WACS SENSOR SYSTEM<sup>†</sup>





### AMADA® STYLE



# AMERICAN ATTC TORCH TIP ATTC

#### AMADA® STYLE

#### SENSOR HEADS









#### Parts available but not shown

#### Cable

71341630/71398965 HS-95 71398293

#### Lens Gasket

71361393 for 2" Mount 71512355 for 2" Mount 71109613 Small Lens Gasket

#### O-Ring Kit

71341690-6 for 71341690



#### AMADA® STYLE

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#### SENSOR HEADS



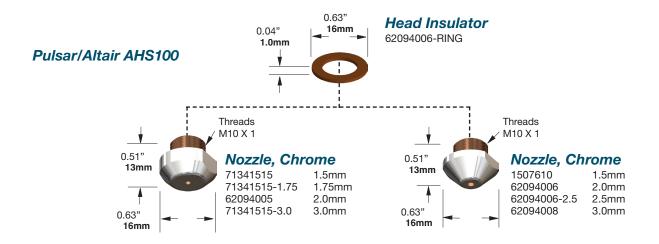




## LASER

AMERICAN ATTC TORCH TIP ATTC

### AMADA® STYLE

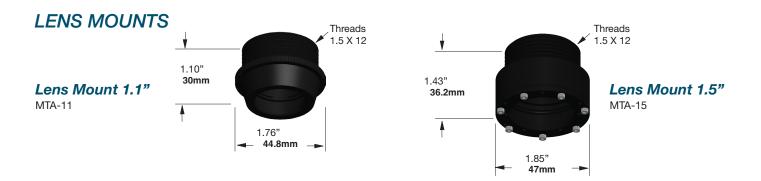


**Cap. Nozzle** 8249301 2.0mm





## AMADA® STYLE







#### Parts available but not shown

#### **Focusing Lens**

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



#### AMADA® STYLE /BEHRENS® STYLE

#### **OPTICS COMPATIBLE WITH AMADA® LASERS†**

#### **Focusing Lenses**

P/N	Lasertec P/N	Material	Diameter	Focal Length	Edge Thickness
81140186	ZC20750380	ZnSe	2.0"	7.5"	.390"
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"
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

#### **BEHRENS® STYLE**†



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

2.0mm



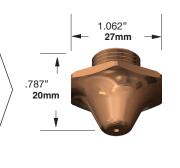


6930250845 1.0mm 6930250846 1.2mm 6930250847 1.5mm 6930250848 1.8mm 6930250849 2.0mm 6930250850 2.3mm 6930250851 2.5mm 6930250852 3.0mm 6930250853 3.5mm 6930250854 4.0mm

#### 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





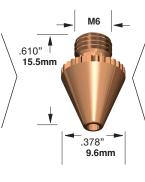
#### **Double Nozzle - Chrome**

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



#### **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

#### BLM®/ADIGE® STYLE



#### Parts available but not shown

#### **Nozzle SCB**

6930250845/00	1.0mm
6930250846/00	1.2mm
6930250847/00	1.5mm
6930250848/00	1.8mm
6930250849/00	2.0mm
6930250850/00	2.3mm
6930250851/00	2.5mm
6930250852/00	3.0mm
6930250853/00	3.5mm
6930250854/00	4.0mm
6930250800/00	1.0mm CP
6930250801/00	1.2mm CP
6930250802/00	1.5mm CP
6930250803/00	1.8mm CP
6930250804/00	2.0mm CP
6930250805/00	2.3mm CP
6930250806/00	2.5mm CP
6930250807/00	3.0mm CP
6930250808/00	3.5mm CP
6930250809/00	4.0mm CP

#### Double Nozzle D3F

1.0mm - 1.0 CP 1.2mm - 1.0 CP 1.5mm - 1.0 CP 1.8mm - 1.0 CP 2.0mm - 1.0 CP 2.3mm - 1.0 CP 2.5mm - 1.5 CP
3.0mm - 1.5 CP 3.5mm - 1.5 CP

#### **Nozzle NCB**

6930250820/00	1.5mm CP
6930250821/00	1.8mm CP
6930250822/00	2.0mm CP
6930250823/00	2.3mm CP
6930250824/00	2.5mm CP
6930250825/00	3.0mm CP
6930250826/00	3.5mm CP
6930250827/00	4.0mm CP
6930250841/00	5.0mm CP

#### **Double Nozzle ACB**

6930250840	2.5mm CP
6930250839	4.0mm CP

#### **Double Nozzle NCB**

6930250841/00 5.0mm CP 6930250819/00 7.0mm CP

#### **Nozzle SCB**

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

#### Long Nozzle TCL

6930250031/00	1.0mm
6930250032/00	1.2mm
6930250033/00	1.5mm
6930250034/00	1.8mm
6930250035/00	2.0mm
6930250043/00	2.3mm
6930250036/00	2.5mm
6930250044/00	3.0mm
6930250853/00	3.5mm
6930250854/00	4.0mm

#### Nozzle KNL

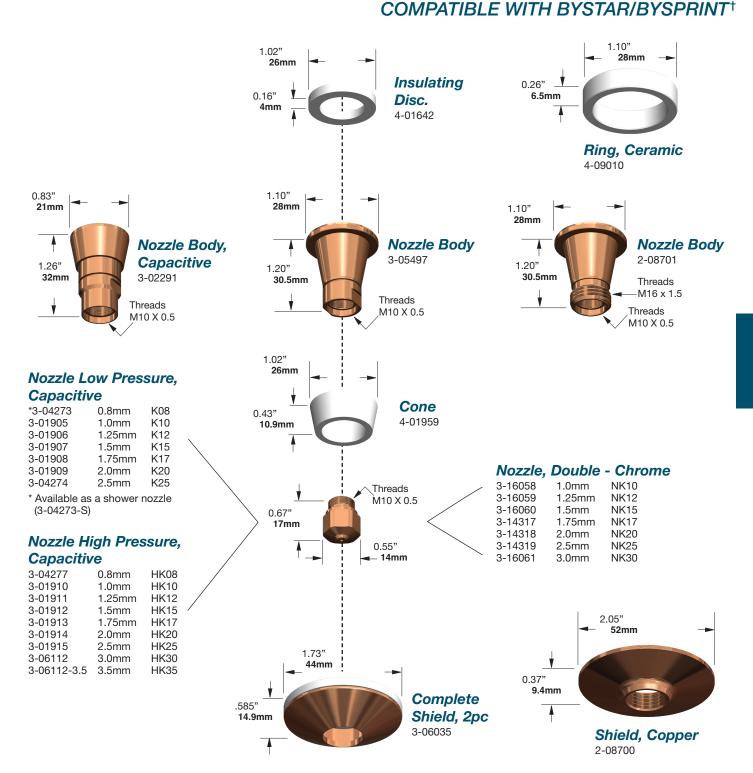
6930250862	1.0mm
6930250863	1.2mm
6930250835	1.5mm
6930250864	1.8mm
6930250836	2.0mm
6930250865	2.5mm
6930250866	3.0mm

#### **Double Nozzle KNL**

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

BYSTRONIC® STYLE - FIBER







#### BYSTRONIC® STYLE - FIBER

#### COMPATIBLE WITH BYSTAR/BYSPRINT/BYSMART<sup>†</sup>



#### Push Fit Nozzle Holder

10074594

#### Push Fit Nozzle Holder

10077009

#### **Quick Release Nozzle**

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



#### **Quick Release Double Nozzle**

10049747	1.0mm Double	NK1015
10035275	1.2mm Double	NK1215
10035278	1.5mm Double	NK1515
10035290	1.7mm Double	NK1715
10035292	2.0mm Double	NK2015
10035294	2.5mm Double	NK2515
10035296	2.5mm Double	NK2520
	W/ 2.0 Inner	
10035298	3.0mm Double	NK3017
	W/ 1.7 Inner	
10035301	3.0mm Double	NK3020
10035302	3.5mm Double	NK3530
10068496	3.5mm Double	NK3517

#### Parts available but not shown

#### **Protective Window**

10045746 36.0mm x 5.0mm Fused Silica

Nozzle		
10066332	3.5mm	35H
10068494	5.0mm	50H

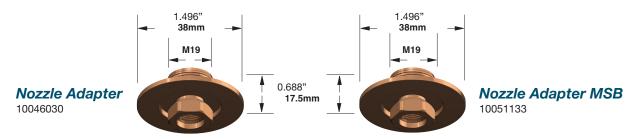
#### Push Fit Nozzle

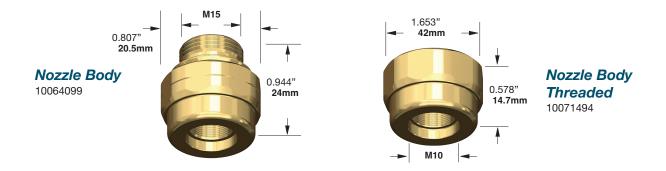
10084700	2.0mm	F20 DW
10084701	2.5mm	F25 DW
10066333	3.0mm	F30 DW
10090091	3.5mm	F35 DW
10066331	4.0mm	F40 DW
10066330	4.5mm	F45 DW
10060092	5.0mm	F50 DW
10066053	5.5mm	F55 DW
10066069	6.0mm	F60 DW
10084700	2.0mm CP	F20 DW
10084701	2.5mm CP	F25 DW
10066333	3.0mm CP	F30 DW
10090091	3.5mm CP	F35 DW
10066331	4.0mm CP	F40 DW
10066330	4.5mm CP	F45 DW
10060092	5.0mm CP	F50 DW
10066053	5.5mm CP	F55 DW
10066069	6.0mm CP	F60 DW



### BYSTRONIC® STYLE



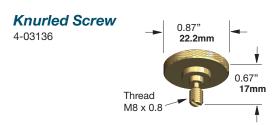


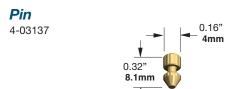




#### BYSTRONIC® STYLE

#### COMPATIBLE WITH BYSPEED AND SPARE PARTS<sup>†</sup>



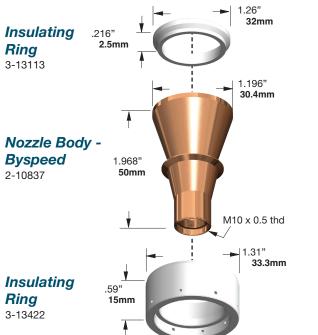






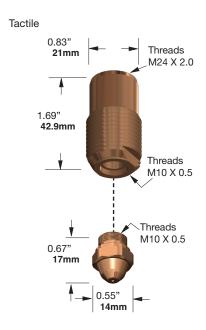






#### **Nozzle Body**

3-00407



Nozzle i	Low Pre	ssure	Nozzle I	High Pre	ssure
3-04271	0.8mm	80	3-04275	0.8mm	H08
3-01894	1.0mm	10	3-01899	1.0mm	H10
3-01895	1.25mm	12	3-01900	1.25mm	H12
3-01896	1.5mm	15	3-01901	1.5mm	H15
3-01897	1.75mm	17	3-01902	1.75mm	H17
3-01898	2.0mm	20	3-01903	2.0mm	H20
3-04272	2.5mm	25	3-04276	2.5mm	H25



#### BYSTRONIC® STYLE

#### COMPATIBLE WITH BY-NOZZLE & BY-DOUBLE NOZZLE<sup>†</sup>

#### Parts available but not shown

By-Nozzle Precision				
10097507	1.0mm	HK		
10097508	1.25mm	HK		
10097509	1.5mm	HK		
10097510	1.75mm	HK		
10097511	2.0mm	HK		
10097512	2.5mm	HK		
10097513	3.0mm	HK		
10097514	3.5mm	HK		
10117151	1.5mm	Н		
10117153	1.7mm	Н		
10097541	2.0mm	Н		
10097542	2.5mm	Н		
10117154	3.0mm	Н		
10117152	3.5mm	Н		

By-Dou	ble Nozzle	Precision
10097525	1.0mm	NK
10097528	1.2mm	NK
10097531	1.5mm	NK
10097533	1.7mm	NK
10097534	2.0mm	NK
10097537	2.5mm	NK
10097549	2.5mm	NK
10097543	3.0mm	NK
10097551	3.0mm	NK
10097553	3.5mm	NK
10097552	3.5mm	NK
10097554	4.0mm	NK

By-Nozz	zle Push F	it Precis	ior
10118050	2.0mm	F CP	
10118051	2.5mm	F CP	
10118057	3.0mm	F CP	
10118052	3.5mm	F CP	
10118053	4.0mm	F CP	
10118058	4.5mm	F CP	
10118055	4.0mm	F CP	
10118054	5.5mm	F CP	
10118056	6.0mm	F CP	

#### OPTICS COMPATIBLE WITH BYSTONIC® 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**

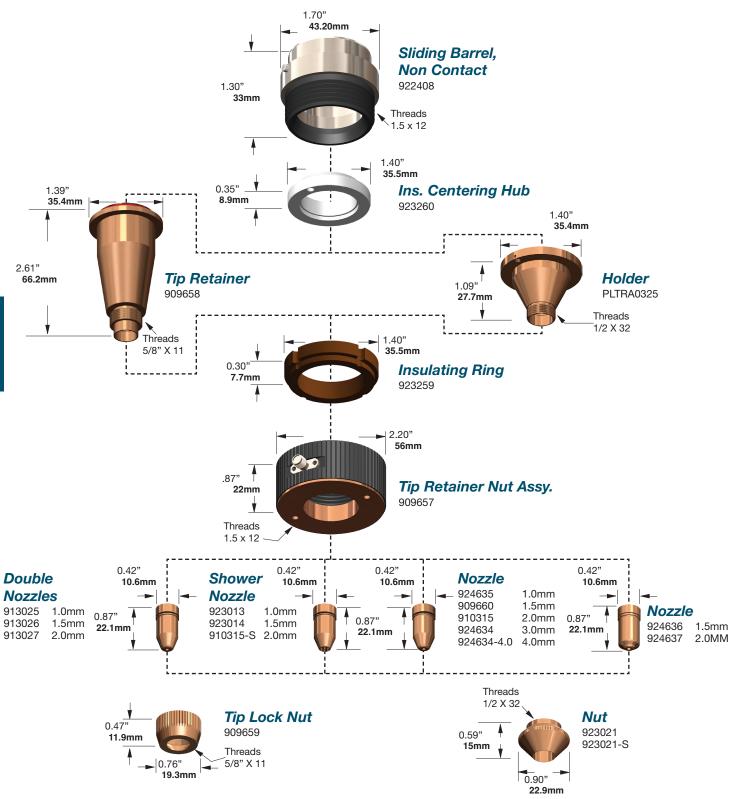
P/N	Material	Diameter	Edge Thickness
10045746	FS	36mm	5mm



#### CINCINNATI® STYLE



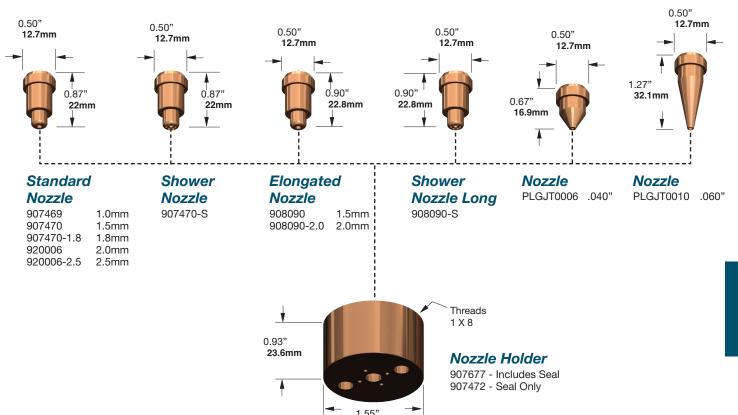
#### NON CONTACT HEAD





### CINCINNATI® STYLE

#### CONTACT HEAD



39.4mm

#### **NON CONTACT**



# **LASER**



#### CINCINNATI® STYLE

#### OPTICS COMPATIBLE WITH CINCINNATI® LASERS†

#### **Focusing Lenses**

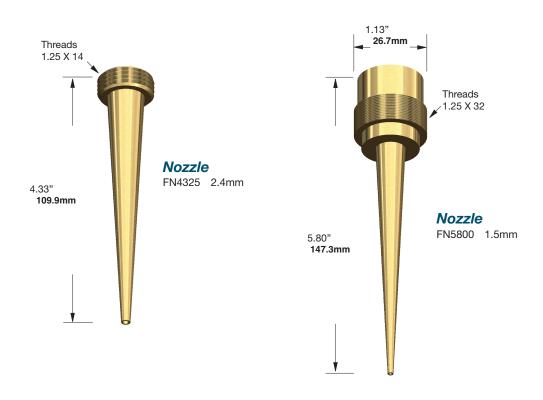
P/N	Lasertec P/N	Material	Diameter	Focal Length	Edge Thickness
907557	ZC155018160	ZnSe	1.5"	5.018"	.160"
908085	ZC15513280	ZnSe	1.5"	5.18"	.280"
909484	ZC15763280	ZnSe	1.5"	7.63"	.280"
922376	ZC20769380	ZnSe	2.0"	7.69"	.380"
922377	ZC20519380	ZnSe	2.0"	5.19"	.380"

#### **Protective Windows**

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



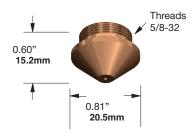
#### **DIRECTED LIGHT® STYLE**





#### **ELECTROX® STYLE/FANUC® STYLE**

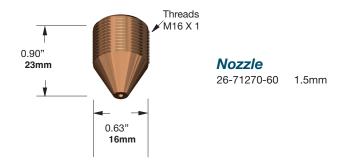
#### **ELECTROX® STYLE**†



#### Nozzle

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

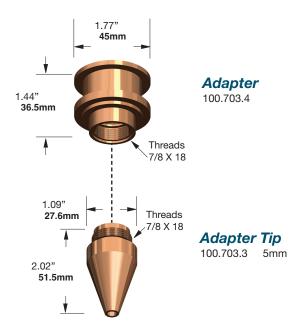
#### FANUC ® STYLE†

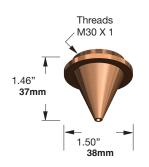




### GREMADA® STYLE

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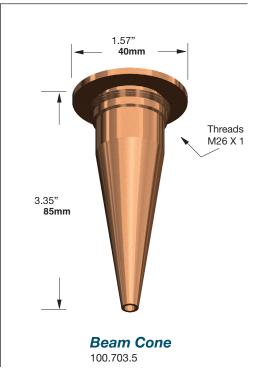




**Powder Cone** 100.703.2-2.5 2.5mm

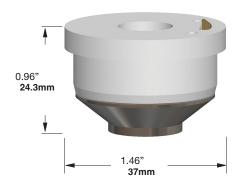


**Nozzle** 100.703.2 7.4mm





#### HK LASER & SYSTEMS® STYLE



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

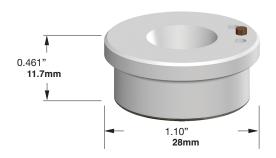


#### **Nozzle Double N**

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

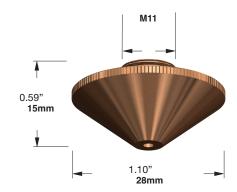


#### HK LASER & SYSTEMS® STYLE



#### 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**

TIOLLIO D'OUDIO		
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

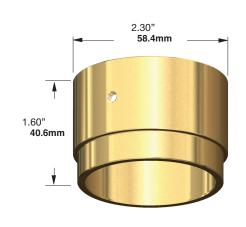
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# AMERICAN AT

#### **HUFFMAN® STYLE**



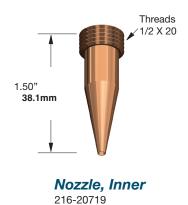
Housing, Main Body 216-20720

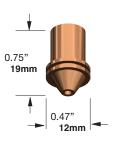


**Housing Cover** 216-20718



Housing, Water 216-20717





Nozzle, Outer 216-20722 .080

Parts available but not shown

Nozzle, Outter Cladding

216-20815

Cladding Nozzle Assembly

216-10606

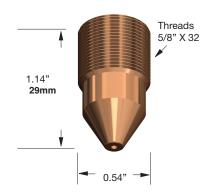


#### KOMATSU® STYLE / LASAG® STYLE

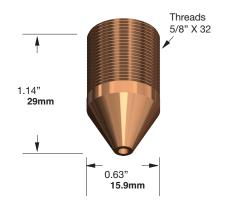
### KOMATSU®† STYLE



Nozzle 968-41-93-761 1.7mm

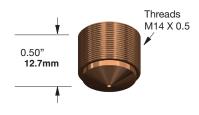


**Nozzle Standard** 968-41-57-812 1.4mm 968-41-57-812-1.6 1.6mm

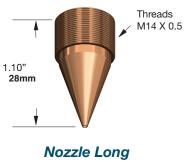


**Nozzle Special** 968-41-57-850 2.0mm

#### LASAG®† STYLE



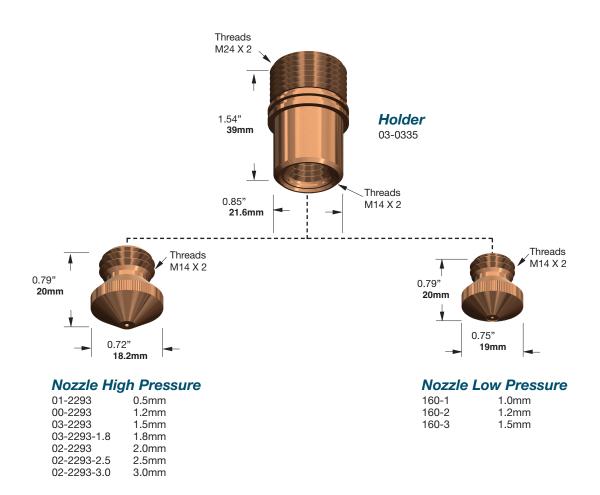
**Nozzle Short** LASAG.SHORT 1.0mm



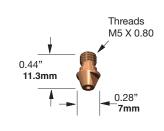
LASAG.LONG 1.0mm

## AMERICAN ATT

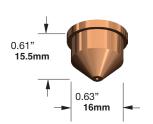
#### LASER LAB® STYLE











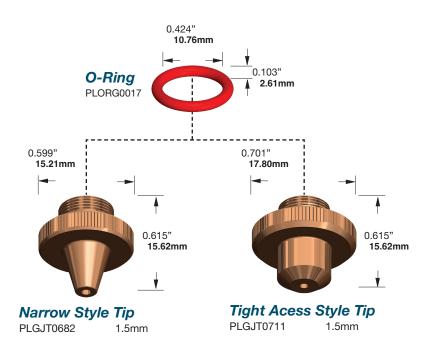
#### Nozzle 03-210T 1.0mm 03-8720 1.2mm 03-214T 1.4mm 03-215T 1.5mm 03-217T 1.7mm 03-8729 2.0mm 03-224T 2.4mm 2.5mm

3.0mm

03-225T 03-230T



#### LASER MECHANISMS® STYLE







#### LASERDYNE® / PRIMA® STYLE



#### 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
710.11.155	2.5mm
710.11.156	3.0mm



### Ceramic Nozzle Holder Assy.

LW6.59.130A



#### Nozzle

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



#### Nozzle

1.5mm
2.0mm
2.5mm
3.0mm



#### LASERDYNE® / PRIMA® STYLE

#### OPTICS COMPATIBLE WITH LASERDYNE® / PRIMA® LASERS†

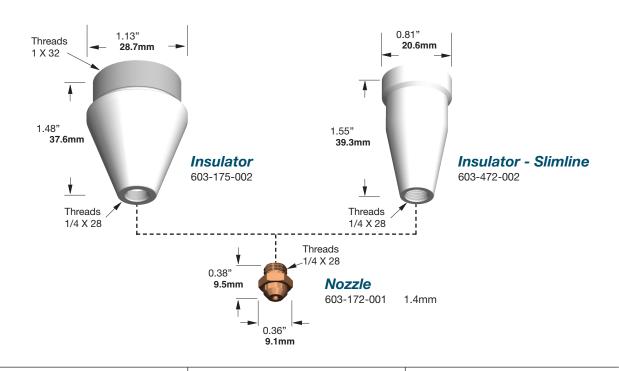
#### **Focusing Lens**

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"

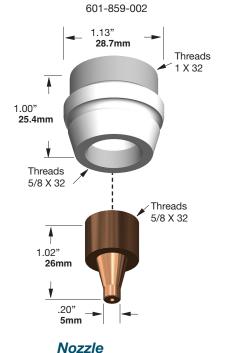
# LASER

# AMERICAN ATTC

### LUMONICS® STYLE







601-614-002

601-614-001

601-614-003

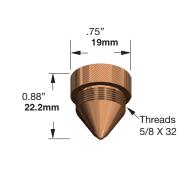
601-614-005

1.0mm

1.5mm

2.0mm

2.5mm



**Nozzle** 603-939-001 0.5mm

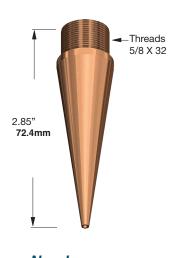


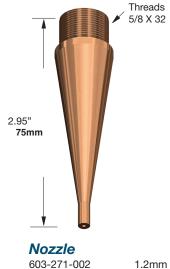
**Nozzle** 605-213-001 1.5mm

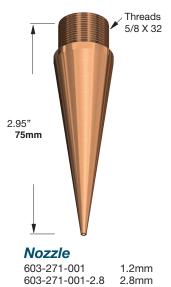


#### LUMONICS® STYLE / LVD® STYLE

#### **LUMONICS®†STYLE**







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

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

#### LVD®† STYLE

#### Parts available but not shown

#### Nozzle Holder Adapter

M000079093

#### Nozzle

M000112154	4.0mm CH 6.0
M000112154	5.0mm CH 7.0
M000112155	6.0mm CH 8.0

#### Nozzle Double

29100307	1.2mm
29100304	1.5mm
29100307	2.0mm
29100305D	2.5mm
29100306	3.0mm

#### Nozzle Double w/Spring

G8040182	3.0mm/inner	1.3mm
D5241982	3.0mm/inner	2.0mm
D7945434	2.5mm/inner	1.3mm CP
D7945452	2.5mm/inner	1.5mm CP

#### Nozzle Cylindrical

DE044000	0.0
D5241993	0.8mm
D7945470	1.0mm
D5241982	1.2mm
D7945434	1.5mm
D7945452	2.0mm
D7945517	2.5mm
D5241993	0.8mm CF
D7945470	1.0mm CF
D5241982	1.2mm CF
D7945434	1.5mm CF
D7945452	2.0mm CF
D7945517	2.5mm CF

## LASE



#### MAZAK® STYLE





# MAZAK® STYLE

# 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**

06283301820 1.5mm HP

#### Nozzle Double Smooth

Q6283300030 6.0mm Q6283300020 7.5mm Q6283300010 9.5mm

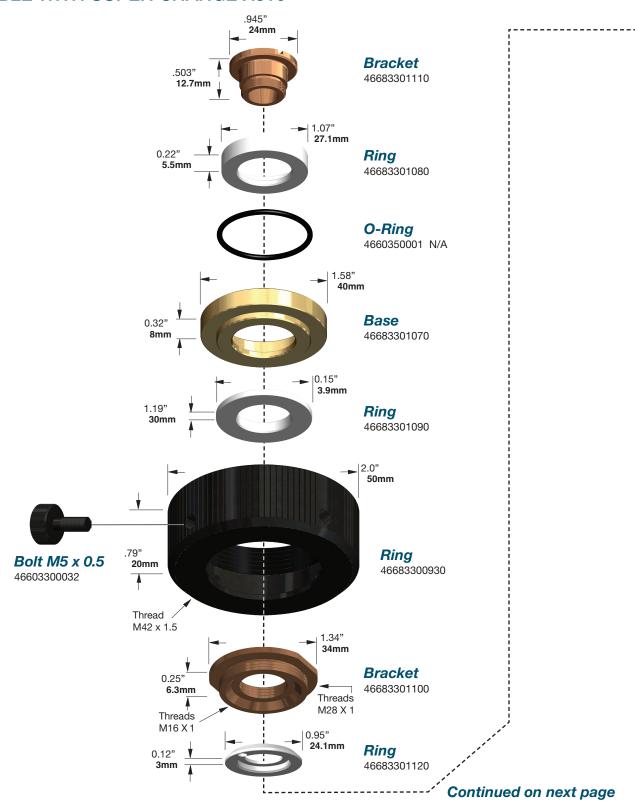


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# MAZAK® STYLE



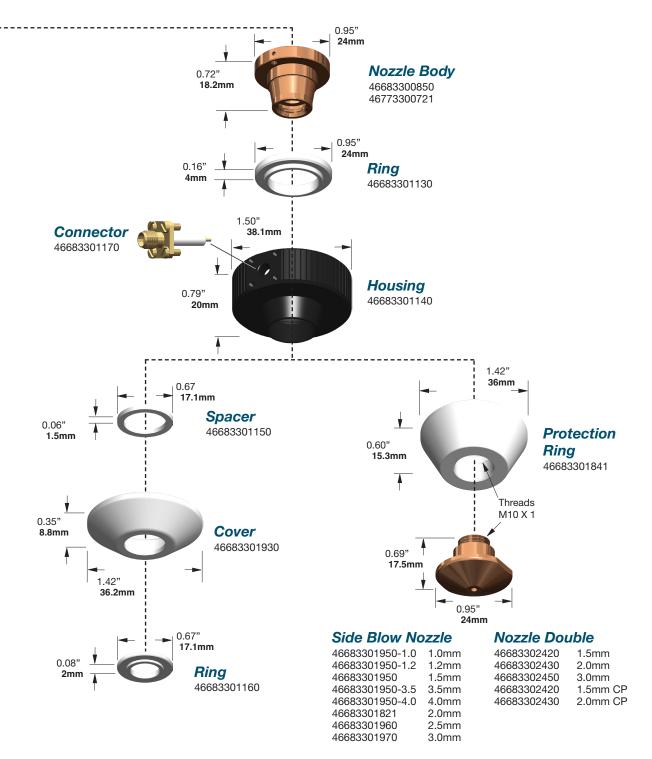
#### COMPATIBLE WITH SUPER CHARGE X510<sup>†</sup>





# MAZAK® STYLE

## COMPATIBLE WITH SUPER CHARGE X510<sup>†</sup>

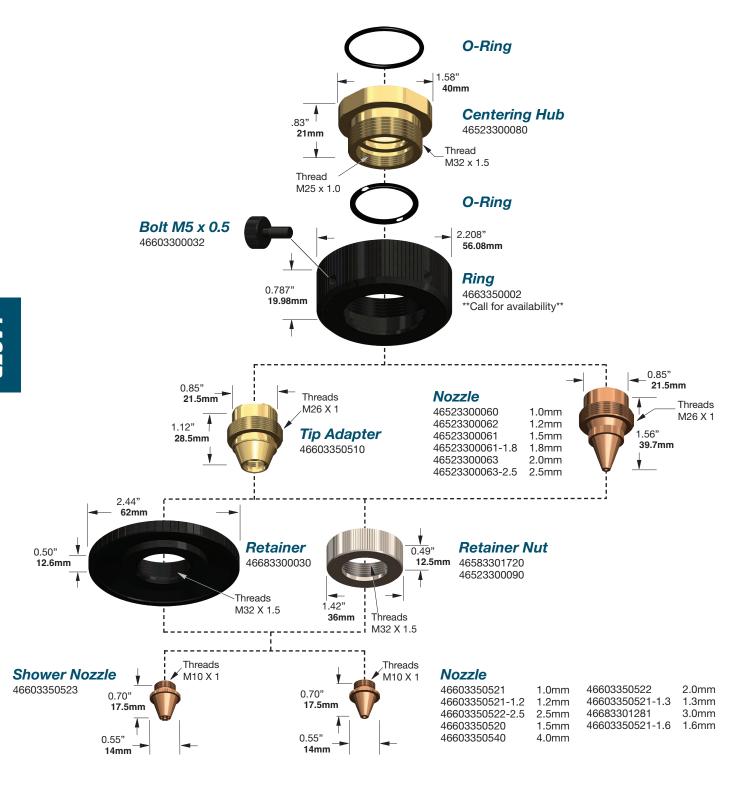


40



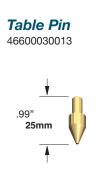
# MAZAK® STYLE

#### COMPATIBLE WITH TURBO 10KW<sup>†</sup>



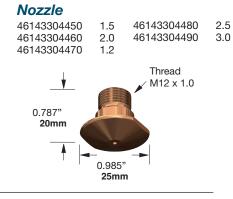


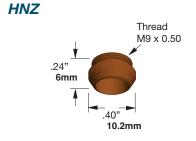
# 41 MAZAK® STYLE





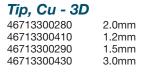


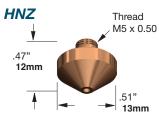




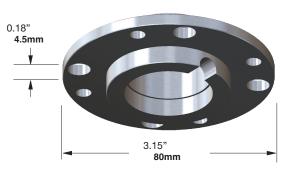








**Tip, Cu - 2D**46713300300 2.0mm
46713300310 1.5mm
46713300440 3.0mm







#### Parts available but not shown

#### Cable

46683301980

#### Sensor

56743300500-Rebuild

Sensor Rebuild HNZ

# 42

# MAZAK® STYLE

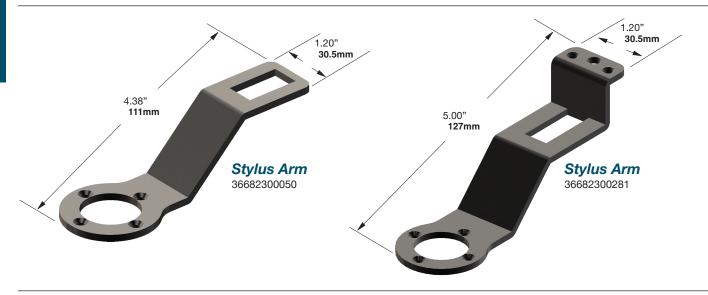






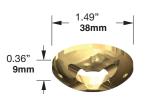


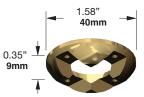






# 1.49 38mm 0.48" 12mm





#### Stylus Foot 1KW 46512300520

46572301041 46572301042 46572301042S 46572301041T

Stylus Foot 1.5KW Brass Brass Steel Teflon™

# Stylus Foot 2.0KW

4660235070 Brass 46602350080 Brass 46602350080S Steel Teflon<sup>™</sup> 46602350080X

#### Stylus Foot 46612350280

46612350280S 46612350270

Copper Steel Brass



# MAZAK® STYLE / MG® STYLE

# **MAZAK® STYLE**

#### Parts available but not shown

Nozzle 3D	
46713331320 46713331310 46713331300 46713331330 46713331290	1.2mm 1.5mm 2.0mm 2.5mm 3.0mm

Nut, Vespel	
46713331280	

### OPTICS COMPATIBLE WITH 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**

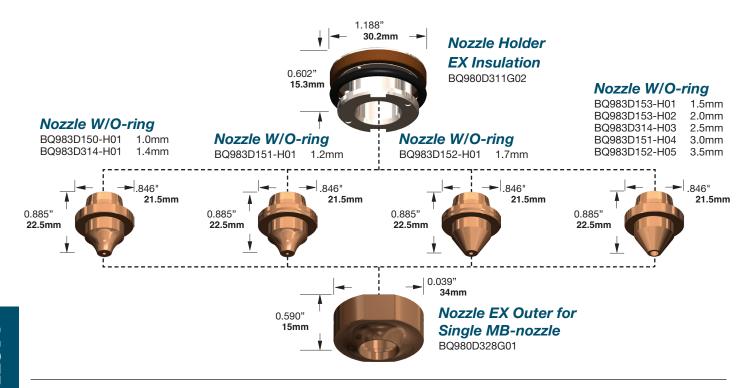
P/N	Material	Diameter	Edge Thickness
W495	FS	42mm	9mm

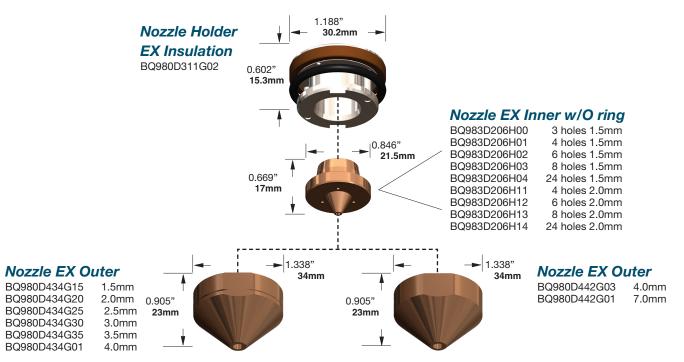
# MG® STYLE COMPATIBLE WITH MESSER<sup>†</sup>



# AMERICAN ATTC

# MITSUBISHI® STYLE

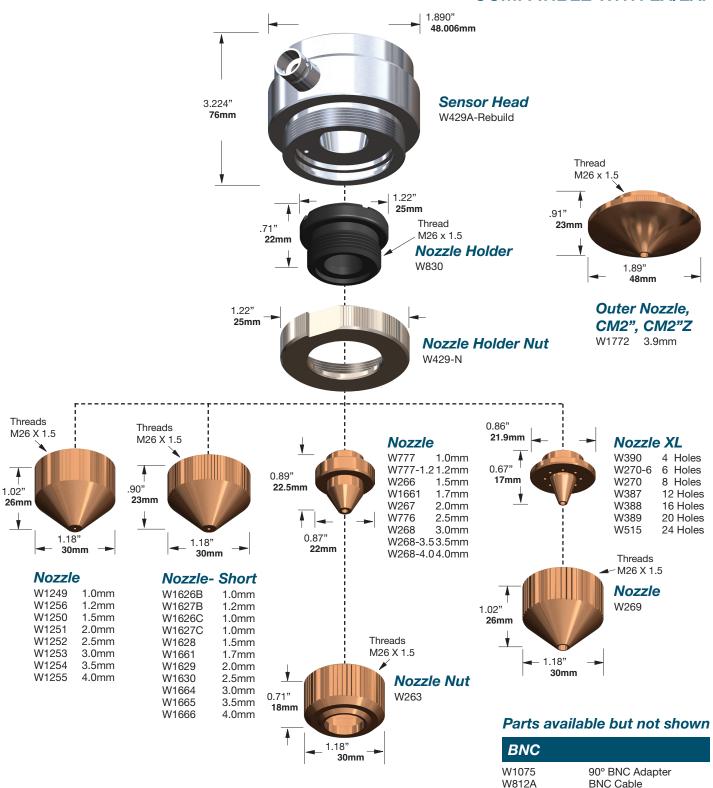






# MITSUBISHI® STYLE

#### COMPATIBLE WITH LX/LXP<sup>†</sup>

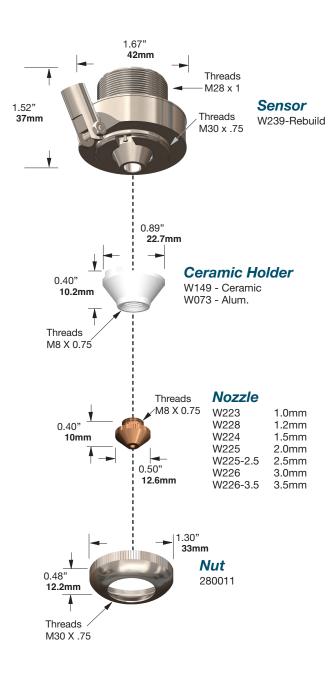


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# LASER

# AMERICAN ATTC TORCH TIP ATTC

# COMPATIBLE WITH 2.5"Z/J<sup>†</sup>





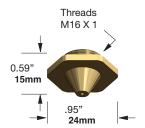
# MITSUBISHI® STYLE

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#### **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

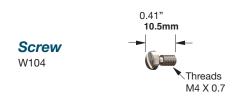


#### **Contact Head**

#### Nozzle

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





Nozzle
W400

14.6mm

Threads
M6 X 0.75

0.26"

0.26"





# MITSUBISHI® STYLE

# OPTICS COMPATIBLE WITH 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

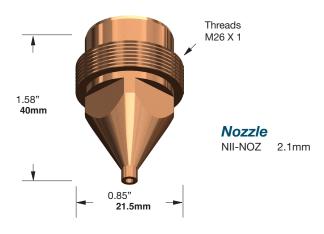
#### **Protective Windows**

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

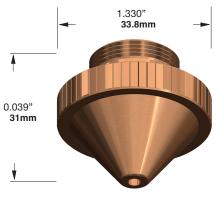


# NIIGATA® STYLE / NTC® / BEYELER® STYLE

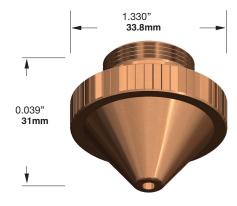
# NIIGATA®† STYLE



# NTC® / BEYELER®† STYLE







## 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

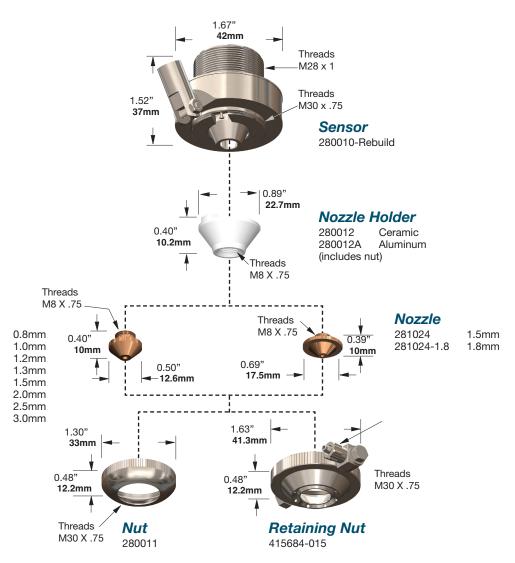
NTC - G15C	1.5mm
NTC - G20C	2.0mm
NTC - G30C	3.0mm
NTC - S15B	special

one and a server extrement

PRECITEC® STYLE



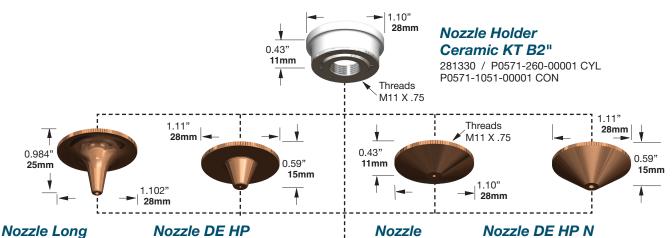
# COMPATIBLE WITH SENSOR SYSTEM 2.5"Z/J<sup>†</sup>



#### Nozzle

280013 / P0492-441-00008 280014 / P0492-442-00010 280015 / P0492-443-00012 280015-1.3 280016 / P0492-444-00015 280937 / P0492-445-00020 280937-2.5 280927





281552 1.2mm

281553 1.5mm 281554 2.0mm

# w/Radius

Part #	Size
P0578-0412-00012	1.2mm
P0578-0413-00015	1.5mm
P0578-0414-00018	1.8mm

#### 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 Do	ouble 3D		į		
Part #	Size		į		
6930250001	0.8mm		į		
6930250002			į		
6930250003			į	Threads	
6930250004	1.5mm		į	M36 X 1	
			i		
					0.27" <b>6.9mm</b>
Uni	on Nut			•	
2813	29	6		1.	<b>†</b>
			4.00"		
		-	1.66"	-	

#### Nozzle DE HP N

Part #	/	Alternate Part #	Size
281548-0.8	/	P0591-673-0008	8.8mm
281548	/	P0591-571-00010	1.0mm
281549	/	P0591-572-00012	1.2mm
281463	/	P0591-573-00015	1.5mm
281463-1.8	/	P0591-574-00018	1.8mm
281550	/	P0591-575-00020	2.0mm
281551	/	P0591-576-00025	2.5mm

#### **Double Nozzle HP N**

Part #	Size
P0591-002-00012	1.2mm
P0591-002-00014	1.4mm
P0591-002-00015	1.5mm
P0591-002-00018	1.8mm
P0591-002-00020	2.0mm
P0591-002-00025	2.5mm

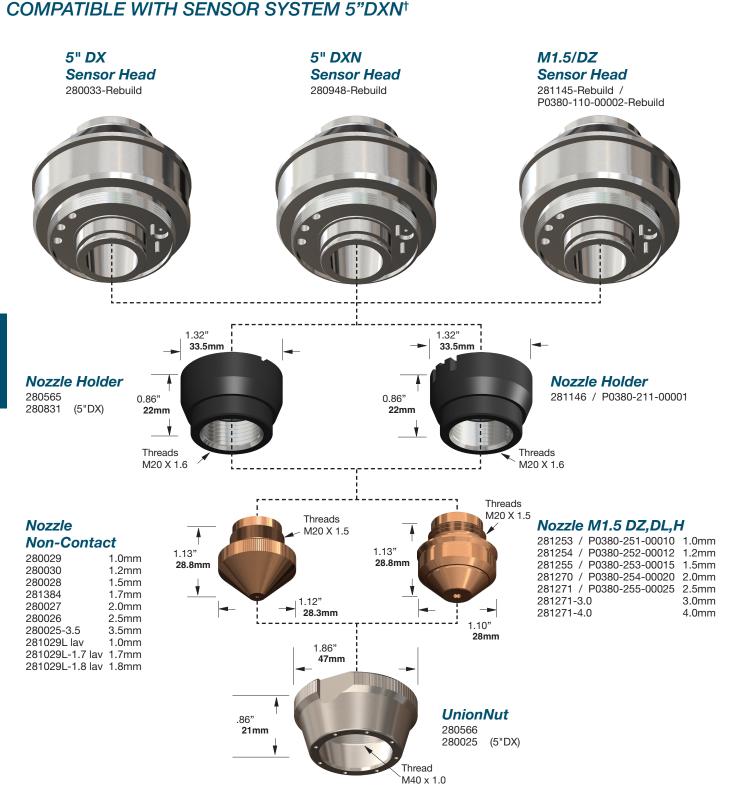
42mm

PRECITEC® STYLE

# LASER

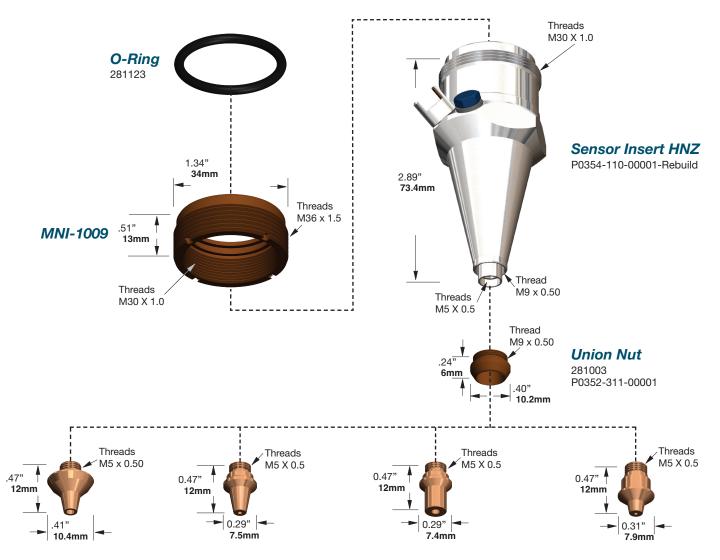


#### COMPATIDI E MITH CENCOD CVCTEM E"DVN



# PRECITEC® STYLE

## COMPATIBLE WITH M1.5 HNZ / CZ<sup>†</sup>



#### 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 / F	P0352-333-00010	1.0mm
281030 / F	20352-334-00012	1.2mm
281031 / F	P0352-335-00015	1.5mm
280898 / F	20352-336-00018	1.8mm
P0352-336	-0002	2.0mm
PU332-330	-0002	2.0111111

#### 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

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#### PRECITEC® STYLE



#### **COMPATIBLE WITH YH27<sup>†</sup>**



#### Nozzle

281789 / P0589-426-00010 281561 / P0589-425-00012 1.2mm 281814 / P0589-427-00015 1.5mm 281814-2.0 / P089-426-00020 2.0mm

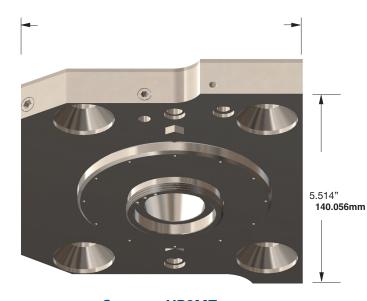
#### Parts available but not shown

#### Cable

149884 / D5589-801-05000 Sensor Cable 149951 Cable MXC 562311 Cable BNC 563983 Cable BNC

#### Sensor Insert

P0589-400-00001-Rebuild Sensor Insert MCX 778548-Rebuild P0589-800-00001-Rebuild Sensor Insert BNC 562313-Rebuild





Sensor - HP2MZ P0594-820-00001-Rebuild



SENSOR SYSTEM 5"KN†

.35"

9mm

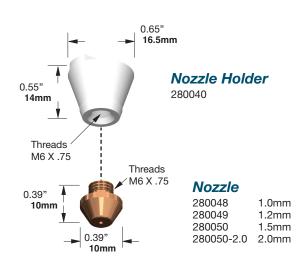
.92"

# COMPATIBLE WITH THESE TRADE NAMES | SENSOR SYSTEM 5"K<sup>†</sup>

### 1.576" 40.030mm Sensor 280549-Rebuild 1.58" 40.132mm Threads M20 X .75 0.67" 17mm **Nozzle Holder** 0.55" 280408 14mm Threads Nozzle 5" KN M6 X .75 280551-0.8 **Threads** 280551 / P0494-853-00010 M6 X .75 280552 / P0494-854-00012 0.41" 280552-1.4 10.5mm 280553 / P0494-855-00015 280554 / P0494-856-00017 280555 / P0494-857-00020 0.39" 10mm Threads M20 X .75

**Cone Nut** 

280550



#### Parts available but not shown

#### Sensor

280042-Rebuild

#### **Cone Nut**

280041

0.8mm

1.0mm

1.2mm

1.4mm

1.5mm

1.7mm

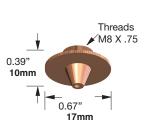
2.0mm

# AMERICAN ATTC TORCH TIP ATTC

## PRECITEC® STYLE

# COMPATIBLE WITH THESE TRADE NAMES

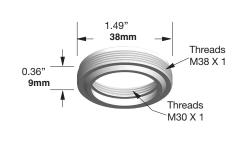
SCL<sup>†</sup>



#### Nozzle

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

# KN<sup>†</sup>, DZ<sup>†</sup>, DXN<sup>†</sup>, DX<sup>†</sup>

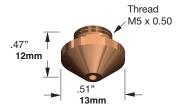


Insulator 280064

#### **YK52**<sup>†</sup>



**Nozzle** 281243 1.0mm



#### 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



# PRECITEC® STYLE

#### Parts available but not shown

Nozzle, K1	X
P0595-94263	1.0mm
P0595-92688	1.2mm
P0595-92733	1.5mm
P0595-92734	1.7mm
P0595-92735	2.0mm
P0595-92736	2.5mm
P0595-92737	3.0mm
P0595-92738	3.5mm
P0595-92739	4.0mm
P0595-92741	5.0mm

Nozzle Double, KTX			
	P0595-92868	0.8mm	
	P0595-92871	1.0mm	
	P0595-92879	1.2mm	
	P0595-92881	1.4mm	
	P0595-92883	1.5mm	
	P0595-92886	1.8mm	
	P0595-92901	2.0mm	
	P0595-92904	2.3mm	
	P0595-92906	2.5mm	
	P0595-92909	3.0mm	
	P0595-92911	3.5mm	
	P0595-92913	4.0mm	
	P0595-92915	4.5mm	
	P0595-92917	5.0mm	

# **OPTICS COMPATIBLE WITH PRECITEC® LASERS†**

#### **Protective Windows**

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

# JO

# PRIMA INDUSTRIE® STYLE



#### Parts available but not shown

#### Nozzle

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

#### Nozzle

LW6.1G.500, LW6.1G.600 1.5mm LW6.1G.501, LW6.1G.601 2.0mm LW6.1G.502, LW6.1G.602 2.5mm LW6.1G.503, LW6.1G.603 3.0mm LW6.1G.501, LW6.1G.601 2.0mm CP LW6.1G.502, LW6.1G.602 2.5mm CP

#### **Nozzle Double**

**LASER** 



#### Parts available but not shown

#### Nozzle Pentagonal

LW6.1G.663	1.5mm CP
LW6.1G.664	1.75mm CP
LW6.1G.665	2.0mm CP
LW6.1G.667	2.5mm CP
LW6.1G.669	3.0mm CP
LW6.1G.103	1.5mm CP
LW6.1G.105	2.0mm CP
LW6.1G.107	2.5mm CP
LW6.1G.109	3.0mm CP
LW6.1G.524	3.0mm DL CP

### Nozzle Pentagonal DL

LW6.1G.522a 3.0mm inner/4.5mm CP

#### Nozzle Double Pentagonal

LW6.1G.200	3.0mm
LW6.1G.201	3.5mm
LW6.1G.202	4.0mm
LW6.1G.203	5.0mm
LW6.1G.204	7.0mm
LW6.1G.302	1.25mm CP
LW6.1G.303	1.5mm CP
LW6.1G.304	1.75mm CP
LW6.1G.305	2.0mm CP
LW6.1G.307	2.5mm CP
LW6.1G.204	2.5mm/inner 2.0mm CP
LW6.1G.309	3.0mm CP
LW6.1G.206	3.0mm/inner 2.0mm CP
LW6.1F.207	3.5mm/inner 3.0mm CP

#### Nozzle Double Pentagonal

LW6.1G.682	1.25mm CF
LW6.1G.683	1.5mm CP
LW6.1G.684	1.75mm CF
LW6.1G.685	2.0mm CP
LW6.1G.687	2.5mm CP
LW6.1G.689	3.0mm CP
LW6.1G.801	3.5mm
LW6 1G 803	5 0mm

# Nozzle Triple Pentagonal

1.25mm CP
1.5mm CP
1.75mm CP
2.0mm CP
2.5mm CP
3.0mm CP

# Nozzle Pentagonal CYL

LW6.1G.700	2.0mm CF
LW6.1G.701	2.5mm CF
LW6.1G.702	3.0mm CF

# PRIMA INDUSTRIE® STYLE



#### Parts available but not shown

Nozzle	
750.42.550 750.42.551 750.42.552 750.42.553	1.5mm 2.0mm 2.5mm 3.0mm
787.04.513	2.0mm CP

Nozzle Double	
520.17.111 520.17.114 750.43.560 750.43.561	1.5mm CP 2.0mm CP 2.5mm CP 3.0mm CP

Cylinarical
0.3mm Brass
1.5mm Brass
2.0mm Brass
2.5mm Brass
3.0mm Brass
1.5mm CP
2.0mm CP
2.5mm CP
3.0mm CP

NOZ	zie C	yılnarıcal
485.73.	.455	0.3mm CP
485.73.	.451	1.5mm CP
485.73.	.452	2.0mm
485.73.	.452	2.0mm CP
485.73.	.453	2.5mm CP

	Oomour	
490.76.103	0.3mr	m Brass
485.73.331	1.5mr	n Brass
485.73.331	1.5mr	n Copper
485.73.333	2.0mr	n Brass
485.73.333	2.5mr	n Brass
485.73.43	3.0mr	n Copper
485.73.114	4 1.0mr	n CP
485.73.431	1.5mr	n CP
485.73.433	2.0mr	n CP
485.73.43X	3.0mr	n CP

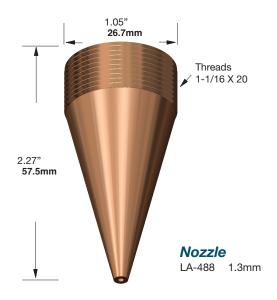
Nozzle Conical

# Nozzle Short 490.1N.302 2.5mm Brass



# RAYTHEON® STYLE / RAYTOOLS® STYLE / ROFIN SINAR® STYLE

# **RAYTHEON®† STYLE**



# RAYTOOLS®† STYLE

#### Parts available but not shown

#### Nozzle Holder M14

120274100B Original

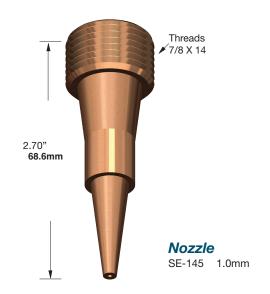
#### Nozzle Conical M14

120GJT0510	1.0mm Original
120GJT0512	1.2mm Original
120GJT0515	1.5mm Original
120GJT0520	2.0mm Original
120GJT0525	2.5mm Original
120GJT0530	3.0mm Original
120GJT0535	3.5mm Original
120GJT0540	4.0mm Original
120GJT0545	4.5mm Original
120GJT0550	5.0mm Original

#### Nozzle Double Conical M14

120GJT0610	1.0mm CP Original
120GJT0612	1.2mm CP Original
120GJT0615	1.5mm CP Original
120GJT0620	2.0mm CP Original
120GJT0625	2.5mm CP Original
120GJT0630	3.0mm CP Original
120GJT0635	3.5mm CP Original
120GJT0640	4.0mm CP Original
120GJT0645	4.5mm CP Original

# ROFIN SINAR®† STYLE



# AMERICAN ATTC

# SALVAGNINI® STYLE



PT Nozzle Holder ITM P0380-211-00001 1.5" DZ



#### SA Nozzle

SA NOZZ	ie
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

#### Parts available but not shown

#### Nozzle Double P40-008038-001 1.0mm/inner 1.5mm P40-008038-002 1.2mm/inner 1.5mm P40-008038-003 1.5mm/inner 1.5mm 1.8mm/inner 1.5mm P40-008038-004 P40-008038-005 2.0mm/inner 1.5mm P40-008038-006 2.3mm/inner 1.5mm P40-008038-007 2.5mm/inner 1.5mm P40-008038-008 3.0mm/inner 1.5mm P40-008038-009 3.5mm/inner 1.5mm

#### OPTICS COMPATIBLE WITH SALVAGNINI® LASERS†

#### **Protective Windows**

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

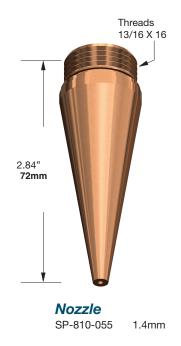


# SHIBUYA® STYLE/SPECTRA PHYSICS® STYLE

# SHIBUYA®† STYLE



### SPECTRA PHYSICS®†STYLE



# STRIPPIT / LVD® STYLE





#### **Nozzle Standard**

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

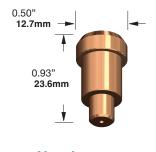
#### Nozzle High Pressure

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.



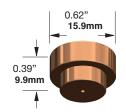
#### Nozzle

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.

65



# OPTICS COMPATIBLE WITH STRIPPIT® / LVD® LASERS†

# **Focusing Lens**

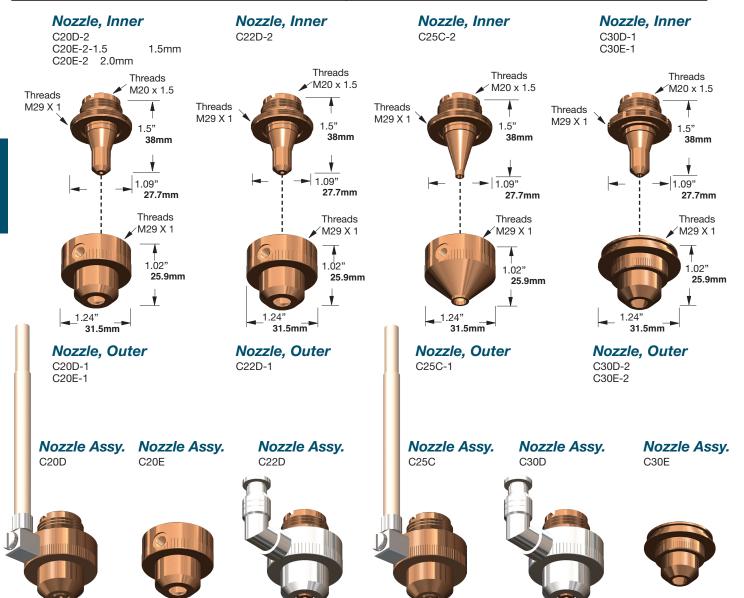
P/N	Lasertec P/N	Material	Diameter	Focal Length	Edge Thickness
0018827-000	ZM15500291	ZnSe	1.5"	5.0"	.291"
0018827-100	ZC15500236	ZnSe	1.5"	5.0"	.236"
0800952-000	ZC15350118	ZnSe	1.5"	3.5"	.118"
1000746-100	ZC15750300	ZnSe	1.5"	7.5"	.300"
1001151-000	ZM15500350	ZnSe	1.5"	5.0"	.350"
1001152-000	ZM15750350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

# TANAKA® STYLE













# Nozzle Holder, ceramic

# 1755673

#### Nozzle EFL

1774018 1.4mm 1838745 1.7mm 1774020 2.0mm 1774092 2.3mm



#### 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

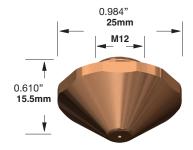
2059462 2.5mm 2060001 3.0mm 2060004 4.0mm 2060025 6.0mm 2253595 10.0mm

#### 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

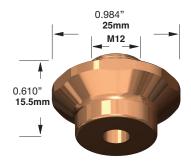


Nozzle Focusing ZAA-01 1637264

0.984" 25mm M12 0.610" 15.5mm

Nozzle Double EAQ

1809091 6.0mm 1809421 7.5mm 1886199 9.5mm



Nozzle EAC 1633046 5.3mm

American Torch Tip Company (ATTC) is a proud US manufacturer of more than 80 years producing products for 6 major cutting and welding technol bove-named manufacturers, tradenames and part numbers are for your convenience only. Most parts advertised for sale are made by or for America nanufacturer (DEM) and are simply being re-sold by American Torch Tip. Footnotes: \* = OEM; # = American Torch Tip is licensed to make and sell the nanufactured identical to the OEM design; ⊚ indicates a registered trademark, trade name, or product name of the above-named company. PHD™, roMix™ are trademarks owned by American Torch Tip Company. ⊚ Copyright 2024, American Torch Tip Company

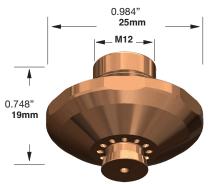
# *LASER*

AMERICAN ATTC

# TRUMPF® STYLE



*Nozzle Holder, ceramic* 1906032



# Nozzle EGL

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



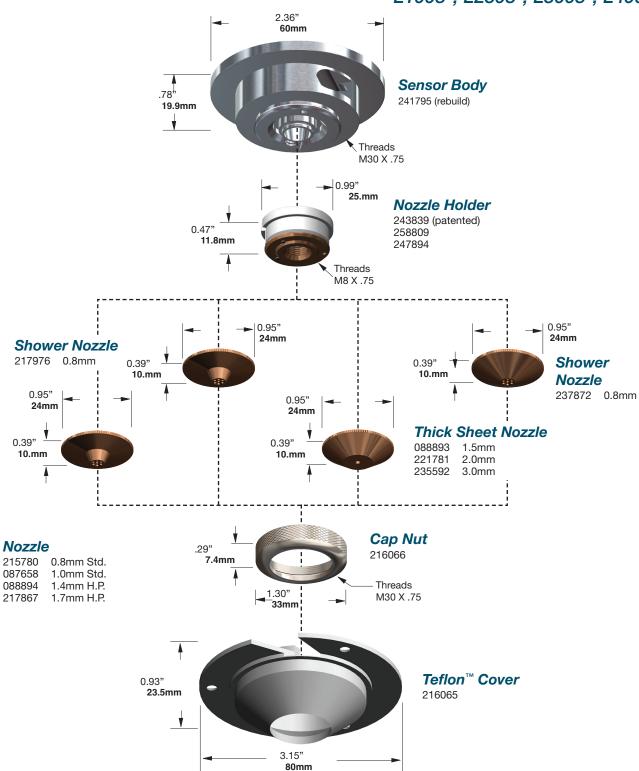
Nozzle Double CAU 2491660



TRUMPF® STYLE

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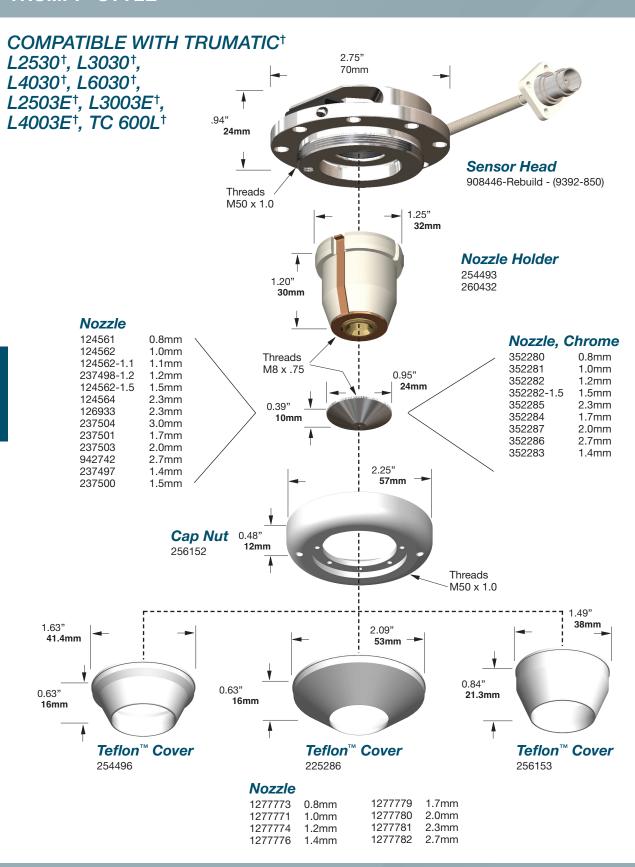
# COMPATIBLE WITH 2.5S/TT<sup>†</sup> L1003<sup>†</sup>, L2503<sup>†</sup>, L3003<sup>†</sup>, L4003<sup>†</sup>



# **ASER**

AMERICAN ATTC

## TRUMPF® STYLE



TRUMPF® STYLE



0.41"

10.5mm

135423

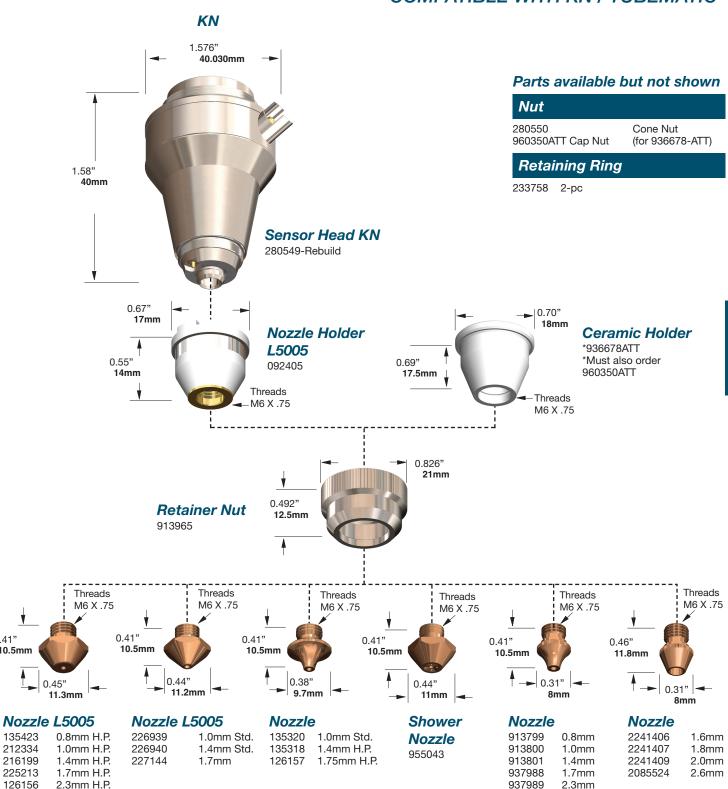
212334

216199

225213

126156

### COMPATIBLE WITH KN / TUBEMATIC<sup>†</sup>



# **MSER**

AMERICAN ATTC

# TRUMPF® STYLE

# COMPATIBLE WITH TC 240<sup>†</sup>, TC 260<sup>†</sup>, TC 300<sup>†</sup> TRUELASER 3030<sup>†</sup>, 5030<sup>†</sup>, 5040<sup>†</sup>, 5060<sup>†</sup>

#### Punch Press Nozzle For TC 240, TC 260

 202952
 0.8mm Std.

 218969
 1.0mm Std.

 209402
 1.4mm H.P.

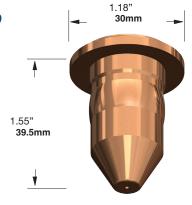
 211533
 1.7mm H.P.

 217953
 1.7mm H.P.



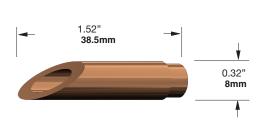
### Nozzle For TC 300

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

#### Cable

 149884/D5589-801-05000
 Sensor Cable

 149951
 Cable MXC

 562311
 Cable BNC

 563983
 Cable BNC

#### **Focus Lens Set**

778560

#### Sensor

P0589-400-00001-Rebuild / 778548-Rebuild Sensor Inert MCX P0589-800-00001-Rebuild / 562313-Rebuild Sensor Insert BNC



TRUMPF® STYLE

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# **OPTICS COMPATIBLE WITH 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

# **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** 

Diameter: +0.000"/-.005"

Thickness: ±.010"

Edge Thickness Variation: ≤.002"

Focal Length: <u>+</u>1%

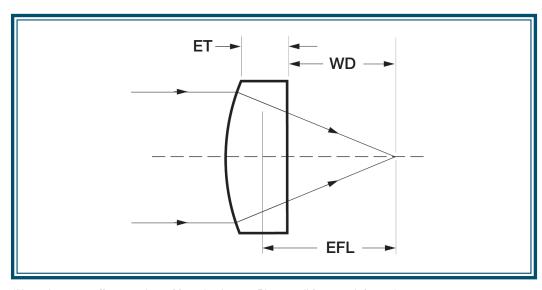
#### **Surface Quality**

Scratch-Dig: 40-20

\*AR coating per surface: <.2%

Clear Aperture: 90% of diameter

Absorption: <.2%



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



75 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** 

Diameter: +0.000"/-.005"

Thickness: ±.010"

Edge Thickness Variation: <.002"

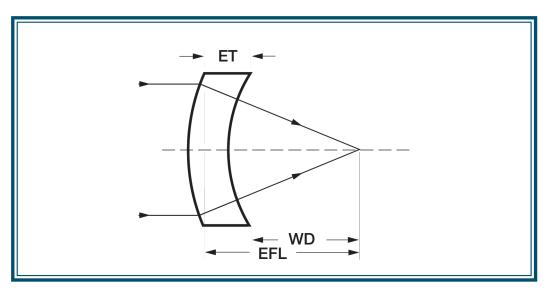
Focal Length:  $\pm 1\%$ 

#### **Surface Quality**

Scratch-Dig: 40-20 \* AR coating per surface: ≤.2%

Clear Aperture: 90% of diameter

Absorption: <.2%



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



1059.70000.008......58 1059.70000.009......58

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5040 ...... 72

5060 ...... 72

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2-0870115
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03-214T30
03-215T30
03-217T30
03-224T30
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160-330	750.42.561
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216-2081528	834-319-001
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485.73.32260	834-319-01133



000050	c c	700710	70	104500	70	1004E4EU 1 ED	E
280050		766719		124562		1664545U-1.5R	
280050-2.0		777936-FS		124562-1.5		1664546U	
280408		778548		124564		2-10837	
280549		778560		126156		202952	
280550		0800952-000		126157		209402	
280551		087658		126933		211533	
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PLASMA CUTTING PRODUCTS

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**OXY-FUEL** WELDING & CUTTING PRODUCTS



TIG WELDING PRODUCTS



LASER CUTTING PRODUCTS

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