

# C.E. TOOLING

## Section 20



**LASER—OEM Quality Parts and Focus Lenses with out OEM Pricing**





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C.E. has teamed up with some of the best names in the Industry to offer our customers savings and convenience in locating **machine parts, plant supplies and equipment.**

- ☀ Save CE always looks to extend the best value.
- ☀ Spend less time ordering tools from multiple vendors.
- ☀ Reduce costs in processing PO's to multiple vendors

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# Optical Cleaning Tissues & Cleaning Kit

## Optical Cleaning Tissue 100 sheet package

High grade optical cleaning tissue. This is a thicker grade material made for cleaning sensitive optics and focus lenses.

## Cleaning Kit Mirror and lens cleaning kit \*ALCK

Kit includes: Duster, finger cots, lint free tissue, swabs, cotton balls, optical polishing compound, distilled water, container for acetone and 2 polarized heat stress analyzers all in a durable storage case.





# AMADA LASER PARTS

See Booklet #11 for Sheet Clamp & other Press parts

## Amada Contact Head & Sensor System

We are still constructing this page. If you do not see the part you need please contact us as we probably Do have It! sales@cetooling.com or call 702 736-2958, or fax 800 848-3161!

Quantity discounts are available.



**\*A71341614 21mm Spacer Ring (Vespel)**  
This NEW spacer ring is made of "Vespel" not a brittle ceramic. Last's longer at higher temperatures.  
Also **\*A62094006 16 mm Spacer Ring**



**\*A62094005 (2mm)**



**\*A62094005-size Size=1, 1.5, or 2mm**



**\*A1664545U Chrome/Copper M12 x 1 Threads**  
Also available in Double & Water Assist style, See AMADA Double & Water nozzle category



**\*A71101901**  
13/16" - 16 Threads



**\*A74718816 Cap Nozzle**  
Same as Amada 8249301



**\*A71101905 / 841143B Outer Nozzle**  
M36 x 1.5 Threads



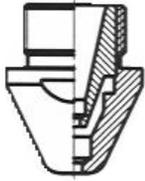
**\*A\_\_\_\_\_ Support with Sphere**  
20mm dia  
For Amada LCVII 3015 BETA



**\*A6506892 (Chrome/Copper)**  
For Amada Apelio 245 II 13/16 x 16 Threads

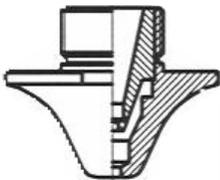


# Amada Sensor and Water Cooled System (AKA Gemini)



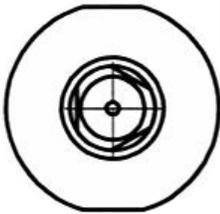
**\*A1669864-7134162-size**  
Nozzle chrome plated with inner nozzle

Size= 1.0, 1.2,  
1.4, 1.5, 2.0,  
2.5, 3.0,  
3.8, 4.0



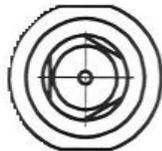
**\*A1572361-size**  
nozzle chrome plated with inner nozzle

Sizes=1.2, 1.4, 2.0, 3.0, 4.0

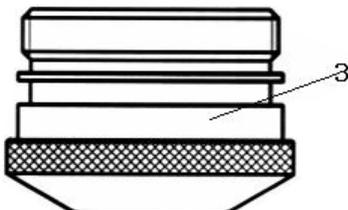
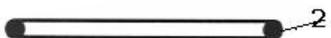
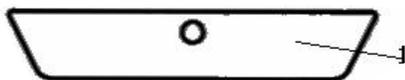


**\*A71341682-size**  
Nozzle chrome plated with inner nozzle

Size= 1.0, 1.2, 1.4, 1.5,  
2.0, 2.5, 3.0, 3.8, 4.0



**\*A1572362-size**  
Nozzle chrome plated without inner nozzle  
Sizes=1.2, 1.4, 2.0, 3.0, 4.0



### Guard parts

- 1) \*A71366438 Guard Nut
- 2) \*A71366453 O-Ring
- 3) \*A71366452 Nozzle outer Chrome Plated



**\*A71366090**  
Nozzle chrome plated without Inner nozzle  
Size= 1.0, 1.2, 1.4, 1.5, 2.0,  
2.5, 3.0, 3.8, 4.0



# Amada Focus Lenses & Mounts



All AMADA lenses listed are **NEW, Not refurbished** OEM quality Zinc Selenide (ZnSe) AR coated focus lenses with a standard absorption rate typically of 0.2%

**\*A81140186 / Focusing Lens**

2.0"Dia. -.310" Edge Thickness -7.5"EFL Plano Convex, ZnSe lens

**\*81140186/A Amada Focus Lens**

2.0"Dia.-.380"Edge Thickness-7.5"EFL Plano Convex, ZnSe lens  
AR coating reflectivity = <0.2%

**81140306 / Amada Focus Lens \$ \_**

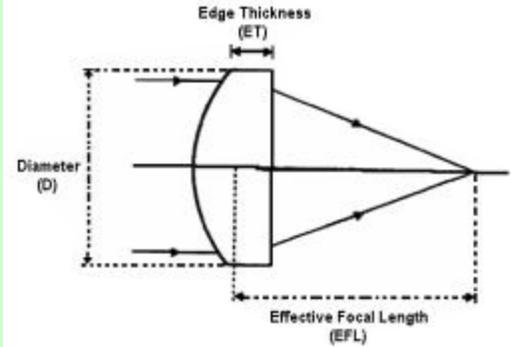
1.5"Diameter - .300"Edge Thickness - 5.0"EFL  
NEW Plano Convex, ZnSe lens AR Coating Reflectivity - <0.2%

**81140307 Amada Focus Lens**

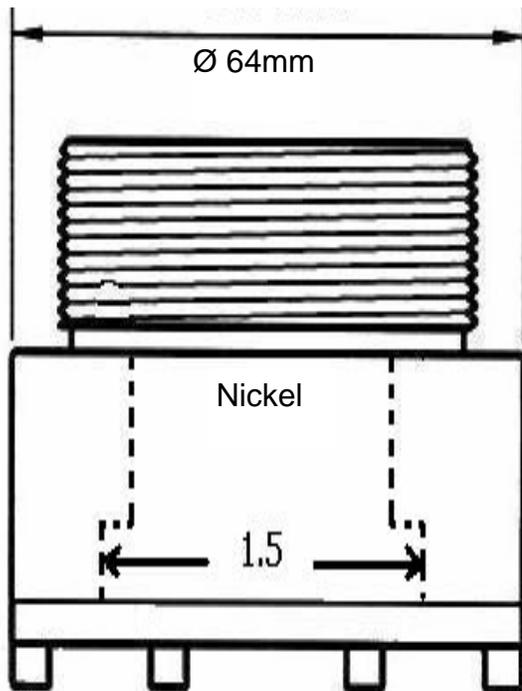
2.0"Diameter - .310" Edge Thickness - 5.0"EFL  
NEW Plano Convex, ZnSe Lens AR coating Reflectivity - <0.2%

**81140400 Amada Focus Lens**

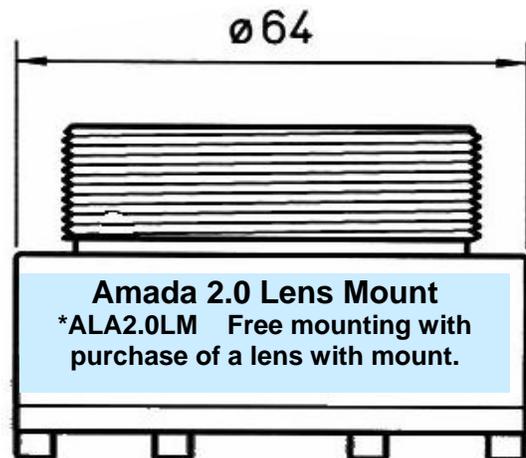
1.5"Diameter - .315"Edge Thickness - 7.5"EFL  
NEW Plano Convex, ZnSe lens AR Coating Reflectivity - <0.2%



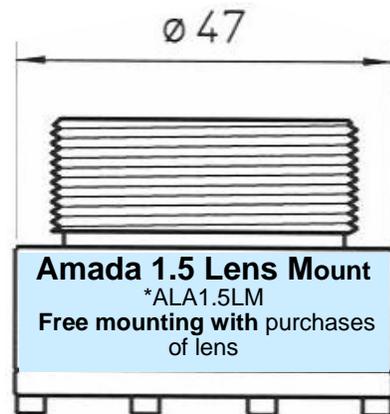
**Indium Wire for Focus lenses**  
\*ALIW 6 ft. roll



**Amada 2.0 Lens Mount w/1.5 lens**  
\*ALA2.0LM&1.5L \*ALA2.0LM  
Free mounting with purchase of a lens with mount.



**Amada 2.0 Lens Mount**  
\*ALA2.0LM Free mounting with purchase of a lens with mount.



**Amada 1.5 Lens Mount**  
\*ALA1.5LM  
Free mounting with purchases of lens



# MAZAK® Miscila/ Spacegear®

**Mazak parts are guaranteed to perform as well as OEM**

We are still constructing this page. If you do not see the part you need please contact us as we probably Do have It! sales@cetooling.com or call 702 736-2958, or fax 800 848-3161!

Quantity discounts are available.



\*A\_-size **Mazak Nozzles**  
**Wide Style** Sizes: 1., 1.2, 1.3, 1.5, 1.6, 1.8, 2.0, 2.5, 3.0, 3.5,



\*A\_-size **Mazak Nozzles**  
**NARROW Style**  
Sizes: 1., 1.2, 1.3, 1.5, 1.6, 1.8, 2.0



\*A46603350510  
**Brass Tip Adapter**  
If your Mazak uses K series nozzles, try this tip adapter. Allows for the use of regular style of Wide or Narrow Nozzle to replace the K series nozzle.



\*A46523300060-size  
**K series nozzle M26 X**  
1.0 Thread Sizes: 1., 1.2, 1.5, 1.8, 2.0, 2.5



\*A36602300550  
**Break Away Bar 89mm**



\*A36683200280  
**Break Away Bar 60mm**



\*A36682300050  
**Stylus Arm**



\*A36682300281a  
**Stylus Arm**



\*A36682300281  
**Stylus Foot V Groove 9mm**



\*A **Stylus Foot V Groove 9mm**  
Steel, Brass, Teflon



\*A **Stylus Foot V Groove 9mm**  
Steel, Brass, Teflon



\*A **Stylus Foot Straight Groove**  
Steel or Brass

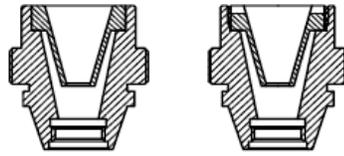


\*A46683300030  
**Retainer Ring**

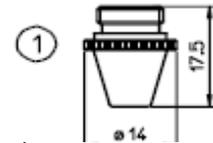
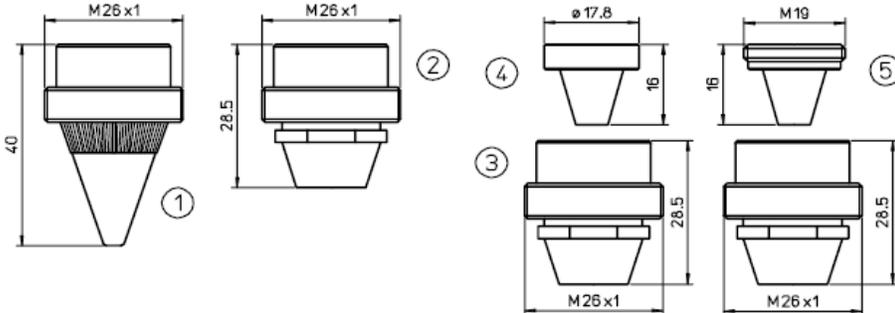


\*A\_  
**Side-Blow / Quick Pierce Nozzle**  
Size: 1.0, 1.2, 1.5, 2.0, 2.5, 3.0, 3.5, 4.0

\*A Aprox.\$60 **Suction Cup** Fits Mazak assembly # G675V000Z20 or 36617600641  
**Don't by whole assemblies @\$500 when all you need is Suction Cup**



Assembly ESSE A. DESIGN



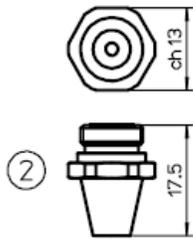
POS	Part Number	Description
1	46523300060	MAZAK® NOZZLE Ø 1.0
	46523300062	MAZAK® NOZZLE Ø 1.2
	46523300061	MAZAK® NOZZLE Ø 1.5
	46523300061-1.7	MAZAK® NOZZLE Ø 1.7
	46523300061-1.8	MAZAK® NOZZLE Ø 1.8
	46523300063	MAZAK® NOZZLE Ø 2.0
	46523300063-2.5	MAZAK® NOZZLE Ø 2.5
	2	46603350510
3	AL44	MAZAK® NOZZLE ADAPTER
4	AL45	MAZAK® INNER NOZZLE
5	AL55	MAZAK® INNER NOZZLE
6	AL54	MAZAK® NOZZLE ADAPTER

46603350508	MAZAK® NOZZLE Ø 0.8
46603350511	MAZAK® NOZZLE Ø 1.0
46603350512	MAZAK® NOZZLE Ø 1.2
46603350520	MAZAK® NOZZLE Ø 1.5
46603350517	MAZAK® NOZZLE Ø 1.7
46603350517-1.8	MAZAK® NOZZLE Ø 1.8
46603350522	MAZAK® NOZZLE Ø 2.0
46603350522-2,2	MAZAK® NOZZLE Ø 2.2
46603350525	MAZAK® NOZZLE Ø 2.5
46603350530	MAZAK® NOZZLE Ø 3.0
46603350535	MAZAK® NOZZLE Ø 3.5
46603350540	MAZAK® NOZZLE Ø 4.0
46603350540-4,5	MAZAK® NOZZLE Ø 4.5
46603350540-5,0	MAZAK® NOZZLE Ø 5.0

46603350508/C	MAZAK® NOZZLE Ø 0.8 CP
46603350511/C	MAZAK® NOZZLE Ø 1.0 CP
46603350512/C	MAZAK® NOZZLE Ø 1.2 CP
46603350520/C	MAZAK® NOZZLE Ø 1.5 CP
46603350517/C	MAZAK® NOZZLE Ø 1.7 CP
46603350517-1,8/C	MAZAK® NOZZLE Ø 1.8 CP
46603350522/C	MAZAK® NOZZLE Ø 2.0 CP
46603350522-2,2/C	MAZAK® NOZZLE Ø 2.2 CP
46603350525/C	MAZAK® NOZZLE Ø 2.5 CP
46603350530/C	MAZAK® NOZZLE Ø 3.0 CP
46603350535/C	MAZAK® NOZZLE Ø 3.5 CP
46603350540/C	MAZAK® NOZZLE Ø 4.0 CP
46603350540-4,5/C	MAZAK® NOZZLE Ø 4.5 CP
46603350540-5,0/C	MAZAK® NOZZLE Ø 5.0 CP

L615	MAZAK® NOZZLE Ø 1.0 W/I
L616	MAZAK® NOZZLE Ø 1.2 W/I
L617	MAZAK® NOZZLE Ø 1.5 W/I
L618	MAZAK® NOZZLE Ø 1.7 W/I
L619	MAZAK® NOZZLE Ø 1.8 W/I
L620	MAZAK® NOZZLE Ø 2.0 W/I
L621	MAZAK® NOZZLE Ø 2.2 W/I
L622	MAZAK® NOZZLE Ø 2.5 W/I
L623	MAZAK® NOZZLE Ø 3.0 W/I
L615X	MAZAK® NOZZLE Ø 1.0 CP W/I
L616X	MAZAK® NOZZLE Ø 1.2 CP W/I
L617X	MAZAK® NOZZLE Ø 1.5 CP W/I
L618X	MAZAK® NOZZLE Ø 1.7 CP W/I
L619X	MAZAK® NOZZLE Ø 1.8 CP W/I
L620X	MAZAK® NOZZLE Ø 2.0 CP W/I
L621X	MAZAK® NOZZLE Ø 2.2 CP W/I
L622X	MAZAK® NOZZLE Ø 2.5 CP W/I
L623X	MAZAK® NOZZLE Ø 3.0 CP W/I

46603350508-H	MAZAK® HEXAGONAL NOZZLE Ø 0.8
46603350511-H	MAZAK® HEXAGONAL NOZZLE Ø 1.0
466033505212-H	MAZAK® HEXAGONAL NOZZLE Ø 1.2
46603350520-H	MAZAK® HEXAGONAL NOZZLE Ø 1.5
46603350517-H	MAZAK® HEXAGONAL NOZZLE Ø 1.7
46603350517-1,8-H	MAZAK® HEXAGONAL NOZZLE Ø 1.8
46603350522-H	MAZAK® HEXAGONAL NOZZLE Ø 2.0
46603350522-2,2-H	MAZAK® HEXAGONAL NOZZLE Ø 2.2
46603350525-H	MAZAK® HEXAGONAL NOZZLE Ø 2.5
46603350530-H	MAZAK® HEXAGONAL NOZZLE Ø 3.0
46603350535-H	MAZAK® HEXAGONAL NOZZLE Ø 3.5
46603350540-H	MAZAK® HEXAGONAL NOZZLE Ø 4.0
46603350540-4,5-H	MAZAK® HEXAGONAL NOZZLE Ø 4.5



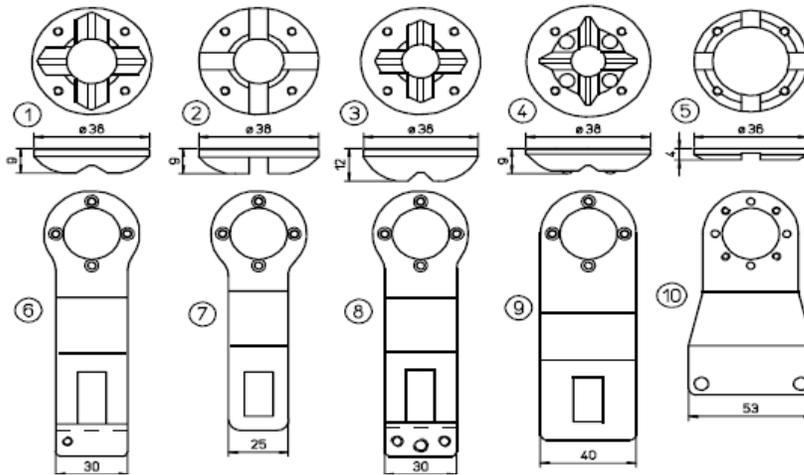
46603350508-N	MAZAK® NOZZLE Ø 0.8
46603350511-N	MAZAK® NOZZLE Ø 1.0
46603350512-N	MAZAK® NOZZLE Ø 1.2
46603350520-N	MAZAK® NOZZLE Ø 1.5
46603350517-N	MAZAK® NOZZLE Ø 1.7
46603350522-N	MAZAK® NOZZLE Ø 2.0
46603350525-N	MAZAK® NOZZLE Ø 2.5
46603350530-N	MAZAK® NOZZLE Ø 3.0

1	46603350523-1,0	MAZAK® NOZZLE Ø 1.0 SHOWER
	46603350523-1,5	MAZAK® NOZZLE Ø 1.5 SHOWER
	46603350523-2,0	MAZAK® NOZZLE Ø 2.0 SHOWER
2	L284	MAZAK® LONG NOZZLE Ø 2.0
	L285	MAZAK® LONG NOZZLE Ø 2.5
	L286	MAZAK® LONG NOZZLE Ø 3.0
	L373X	MAZAK® LONG NOZZLE Ø 1.5 CP
	L284X	MAZAK® LONG NOZZLE Ø 2.0 CP
	L285X	MAZAK® LONG NOZZLE Ø 2.5 CP
	L286X	MAZAK® LONG NOZZLE Ø 3.0 CP

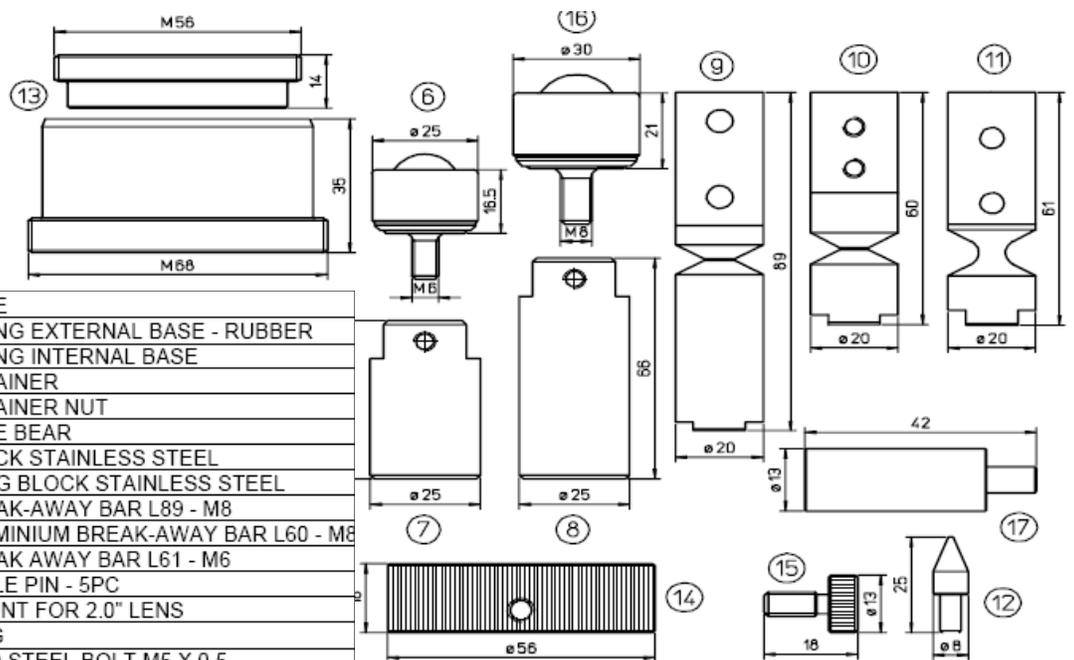
46603350508-N/C	MAZAK® NOZZLE Ø 0.8 CP
46603350511-N/C	MAZAK® NOZZLE Ø 1.0 CP
46603350512-N/C	MAZAK® NOZZLE Ø 1.2 CP
46603350520-N/C	MAZAK® NOZZLE Ø 1.5 CP
46603350517-N/C	MAZAK® NOZZLE Ø 1.7 CP
46603350522-N/C	MAZAK® NOZZLE Ø 2.0 CP
46603350525-N/C	MAZAK® NOZZLE Ø 2.5 CP
46603350530-N/C	MAZAK® NOZZLE Ø 3.0 CP



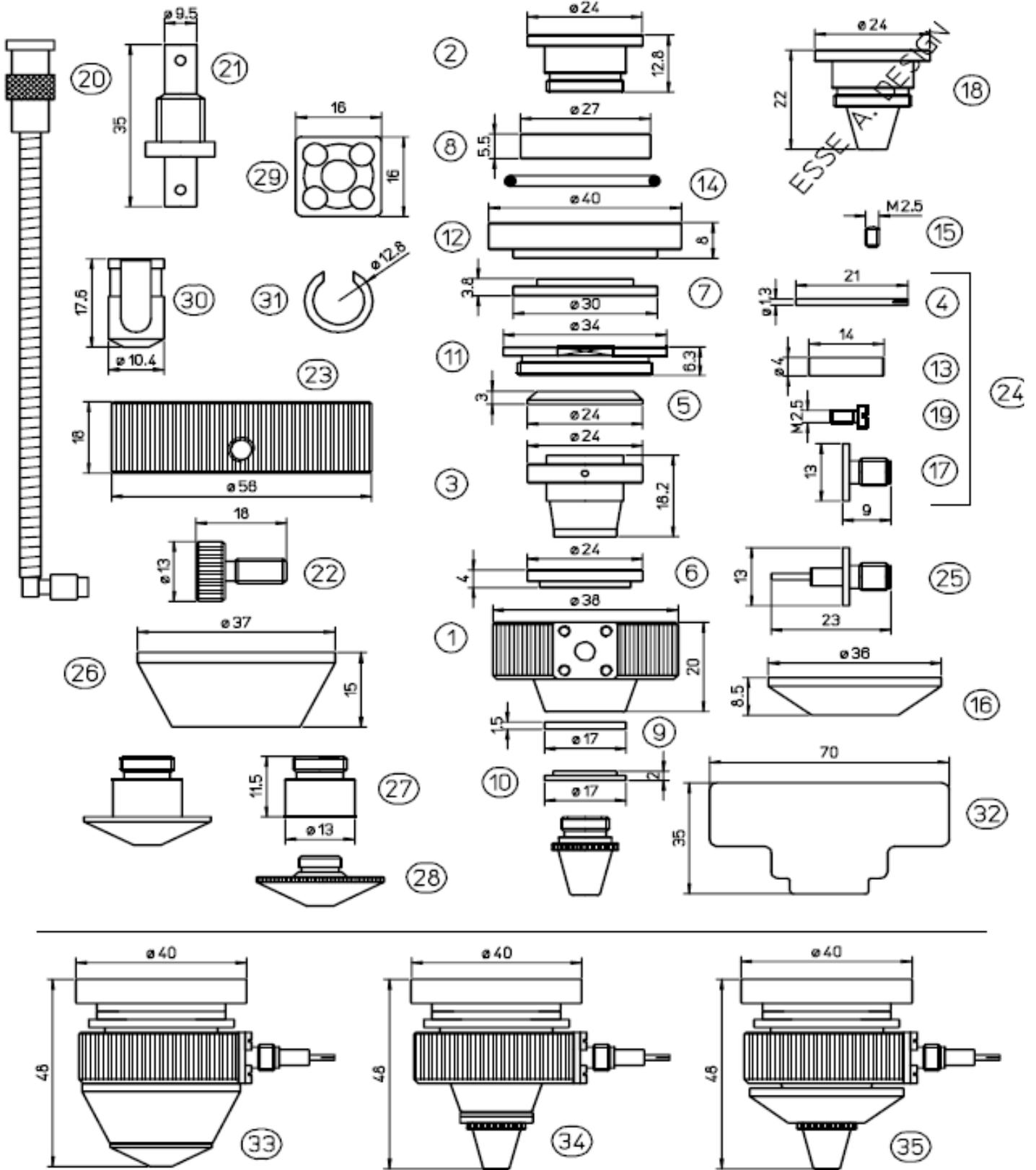
# MAZAK®



1	46602350080 B/V/9	MAZAK® STYLUS FOOT H9 - BRASS
	46602350080-B/V/9/C	MAZAK® STYLUS FOOT H9 - BRASS CP
	46602350080 S/V/9	MAZAK® STYLUS FOOT H9 - STEEL
	46602350080 T/V/9	MAZAK® STYLUS FOOT H9 - TEFLON
2	46602350080 B/S/9	MAZAK® STYLUS FOOT H9 - BRASS
	46602350080 B/S/9/C	MAZAK® STYLUS FOOT H9 - BRASS CP
	46602350080 S/S/9	MAZAK® STYLUS FOOT H9 - STEEL
3	46572301041 B/V/12	MAZAK® STYLUS FOOT H12 - BRASS
	46572301041-B/V/12/C	MAZAK® STYLUS FOOT H12 BRASS CP
	46572301041 S/V/12	MAZAK® STYLUS FOOT H12 - STEEL
	46572301041 T/V/12	MAZAK® STYLUS FOOT H12 - TEFLON
4	46572301049B	MAZAK® STYLUS FOOT H9-BRASS WITH SPHERE
5	46512300520	MAZAK® STYLUS FOOT H4 - BRASS
6	AL64	MAZAK® STYLUS ARM WITH SCREW M4
	36602300580	MAZAK® STYLUS ARM WITH SCREW M6
7	36602300560-36682300050	MAZAK® STEEL STYLUS ARM
8	36682300281	MAZAK® STYLUS ARM - STEEL
9	36602350020	MAZAK® STYLUS ARM - WIDER VERSION
10	46522300250	MAZAK® STYLUS ARM



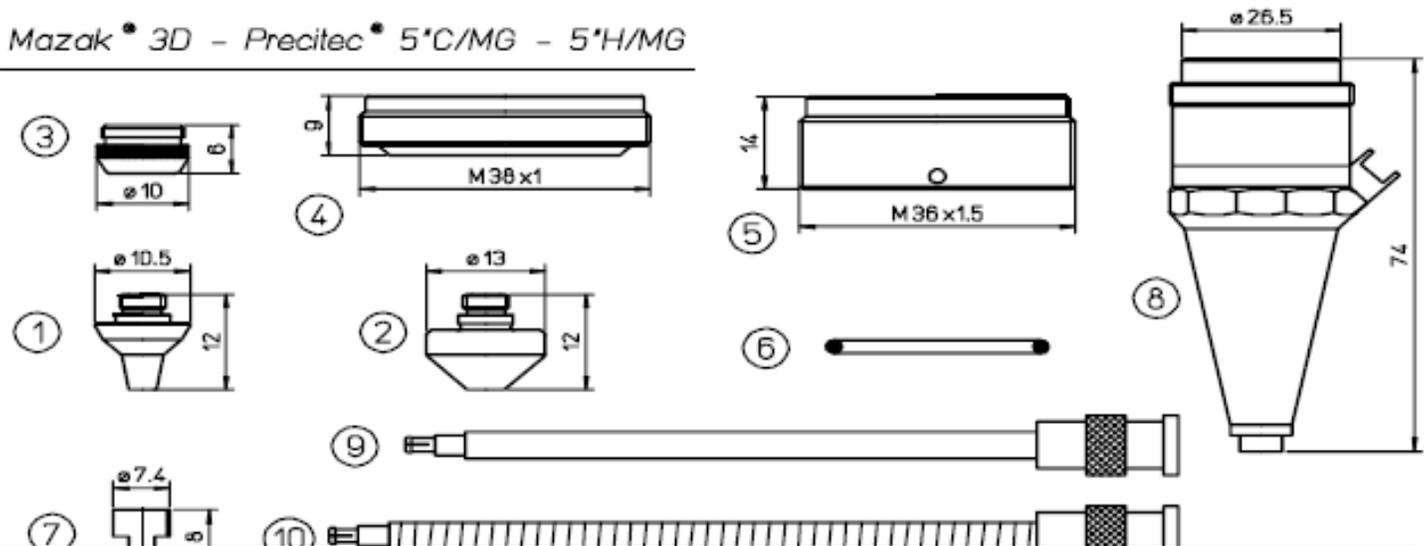
1	46523300080	MAZAK® BASE
2	J2600S03200	MAZAK® O'RING EXTERNAL BASE - RUBBER
3	J2600S02200	MAZAK® O'RING INTERNAL BASE
4	46683300030	MAZAK® RETAINER
5	46583301720	MAZAK® RETAINER NUT
6	Z21KV000580	MAZAK® FREE BEAR
7	46575100321	MAZAK® BLOCK STAINLESS STEEL
8	46705100050	MAZAK® LONG BLOCK STAINLESS STEEL
9	36602300550	MAZAK® BREAK-AWAY BAR L89 - M8
10	36682300280	MAZAK® ALUMINIUM BREAK-AWAY BAR L60 - M8
11	36572300101	MAZAK® BREAK AWAY BAR L61 - M6
12	46600030013	MAZAK® TABLE PIN - 5PC
13	AL106	MAZAK® MOUNT FOR 2.0" LENS
14	46683300930	MAZAK® RING
15	46683300032	MAZAK® MILD STEEL BOLT M5 X 0.5
16	Z21ZZ001160	MAZAK® BIG FREE BALL
17	46522300242	MAZAK® STYLUS PIN



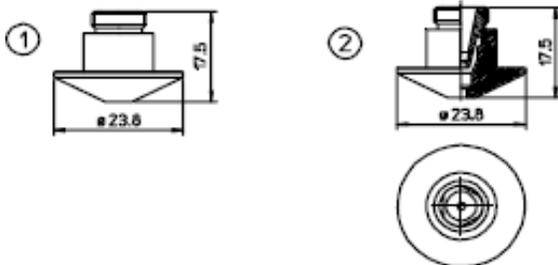
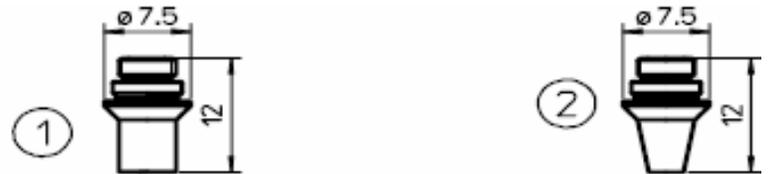


1	46683301140	MAZAK® ALUMINIUM BODY
2	46683301110	MAZAK® CENTRAL COPPER BODY
3	46683300850	MAZAK® COPPER NOZZLE HOLDER
4	46683301170	MAZAK® CONTACT
5	46683301120	MAZAK® TEFLON SPACER 24x3
	46683301120/LL	MAZAK® SPECIAL SPACER 24x3 - PLASTIC
	46683301120/C	MAZAK® CERAMIC SPACER 24x3
6	46683301130	MAZAK® TEFLON SPACER 24x4
	46683301130/LL	MAZAK® SPECIAL SPACER 24x4 - PLASTIC
	46683301130/C	MAZAK® CERAMIC SPACER 24x4
7	46683301090	MAZAK® TEFLON SPACER 30x4
	46683301090/LL	MAZAK® SPECIAL SPACER 30x4 - PLASTIC
	46683301090/C	MAZAK® CERAMIC SPACER 30x4
8	46683301080	MAZAK® TEFLON SPACER 27x5.5
	46683301080/LL	MAZAK® SPECIAL SPACER 27x5.5 - PLASTIC
	46683301080/C	MAZAK® CERAMIC SPACER 27x5.5
9	46683301150	MAZAK® TEFLON SPACER 17x1.5
10	46683301160	MAZAK® COPPER RING 17x2
11	46683301100	MAZAK® COPPER NUT
12	46683301070	MAZAK® BRASS BASE
13	46683300030-AL88	MAZAK® CONNECTING TEFLON PIPE
14	J2600S03200	MAZAK® O'RING EXTERNAL BASE - RUBBER
15	46683301180	MAZAK® SET SCREW FOR CONTACT
16	46683301930	MAZAK® TEFLON PROTECTION
	46683301930/LL	MAZAK® SPECIAL PROTECTION - PLASTIC
	46683301930/C	MAZAK® CERAMIC PROTECTION
17	AL113	MAZAK® CONNECTOR
18	AL112	MAZAK® CENTRAL COPPER BODY- A. PAT.
19	46683300000	MAZAK® SCREW FOR CONNECTORS(4 PCS)
20	46683301980-AL103	MAZAK® CONNECTING CABLE FOR SENSOR HE
	46683301330 AL103-24	MAZAK® CONNECTING CABLE SENSOR HEAD+3
21	AL104	MAZAK® CABLE ADAPTER
22	46683300032	MAZAK® MILD STEEL BOLT M5 X 0.5
23	46683300930	MAZAK® RING
24	46683301170-AL154	MAZAK® KIT CONNECTOR (AL76-88-127-113)
26	46683301841	MAZAK® TEFLON SPACER
27	46683301830	MAZAK® ADAPTER FOR TRUMPF® NOZZLE
29	46683301850	MAZAK® CONNECTOR COVER - TEFLON
	46683301850 /LL	MAZAK® CONNECTOR COVER LONG LIFE - PLAS
30	46683301860	MAZAK® CABLE CONNECTOR COVER - TEFLON
	46683301860 /LL	MAZAK® CABLE CONNECTOR COVER LONG LIFE
31	46683301870	MAZAK® COVER CLIPS - TEFLON
32	46683301230	MAZAK® PLATE
33	TMA10	MAZAK® HEAD W/TEFLON SPACER
	TMA10/LL	MAZAK® HEAD W/LONG LIFE SPACER
	TMA10/C	MAZAK® HEAD W/CERAMIC SPACER
34	TMA20	MAZAK® HEAD W/TEFLON SPACER
	TMA20/LL	MAZAK® HEAD W/LONG LIFE SPACER
	TMA20/C	MAZAK® HEAD W/CERAMIC SPACER
35	TMA30	MAZAK® HEAD W/TEFLON SPACER
	TMA30/LL	MAZAK® HEAD W/LONG LIFE SPACER
	TMA30/C	MAZAK® HEAD W/CERAMIC SPACER

Mazak® 3D - Precitec® 5°C/MG - 5°H/MG

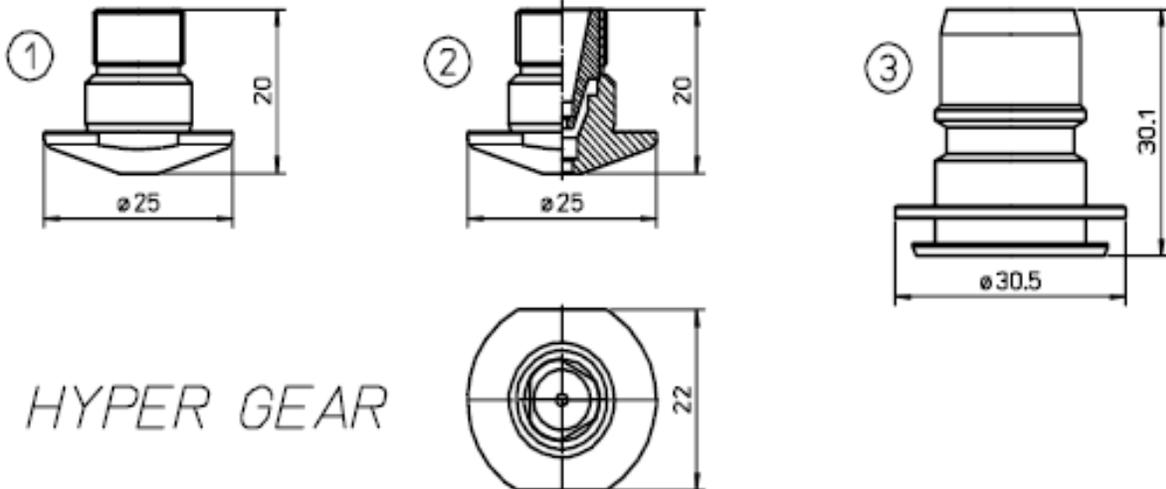


1	P0352-381-00010	MAZAK® NOZZLE 3D Ø 1.0
	P0352-381-00012	MAZAK® NOZZLE 3D Ø 1.2
	P0352-381-00015	MAZAK® NOZZLE 3D Ø 1.5
	P0352-381-00018	MAZAK® NOZZLE 3D Ø 1.8
	P0352-382-00020	MAZAK® NOZZLE 3D Ø 2.0
	P0352-382-00025	MAZAK® NOZZLE 3D Ø 2.5
	P0352-382-00030	MAZAK® NOZZLE 3D Ø 3.0
	P0352-382-00035	MAZAK® NOZZLE 3D Ø 3.5
2	P0-352-386-00010	MAZAK® NOZZLE Ø 1.0 2D
	P0-352-386-00012	MAZAK® NOZZLE Ø 1.2 2D
	P0-352-386-00012	MAZAK® NOZZLE Ø 1.5 2D
	P0-352-386-00013	MAZAK® NOZZLE Ø 1.8 2D
	P0352-387-00020	MAZAK® NOZZLE Ø 2.0 2D
	P0352-387-00025	MAZAK® NOZZLE Ø 2.5 2D
	P0352-387-00030	MAZAK® NOZZLE Ø 3.0 2D
3	46713300321-P0352-311-00001	MAZAK® VESPEL NUT - SPACE GEAR
4	PO492-702-00001	PRECITEC® INSULATING RING -PLASTIC
5	46713330200	MAZAK® 5-AXIS INSULATOR
6	71366453	AMADA® O'RING FOR NOZZLE OUTER
7	AL256	PRECITEC® INSULATOR COLLAR
8	PO354-130-00001	PRECITEC® ORIG. NOZZLE BODY SE M1.5 HN Z/M
	P0354-110-00001/00002	MAZAK® ORIG. NOZZLE BODY SE M1,5° HN Z - WATER COOLED
9	PO360-100-00500 - 46713300100	PRECITEC® ORIG. SENSOR CABLE KE 500 Z
10	281386 P0360-155-00500	MAZAK® ELECTRODE CABLE



1	281005-P0352-323-00010	MAZAK® NOZZLE Ø 1.0 ZK
	281034-P0352-324-00012	MAZAK® NOZZLE Ø 1.2 ZK
	281013-P0352-325-00015	MAZAK® NOZZLE Ø 1.5 ZK
	280899-P0352-326-00018	MAZAK® NOZZLE Ø 1.8 ZK
	350044.3-P0352-327-00020	MAZAK® NOZZLE Ø 2.0 ZK
	P0352-328-00025	MAZAK® NOZZLE Ø 2.5 ZK
2	281006-P0352-333-00010	MAZAK® NOZZLE Ø 1.0 KK
	281030-P0352.334.00012	MAZAK® NOZZLE Ø 1.2 KK
	281031-P0352.335.00015	MAZAK® NOZZLE Ø 1.5 KK
	280898-P0352.336.00018	MAZAK® NOZZLE Ø 1.8 KK
	280898-2.0	MAZAK® NOZZLE Ø 2.0 KK

1	466 833 01910	MAZAK® NOZZLE Ø 1.0
	467 833 01910-1.2	MAZAK® NOZZLE Ø 1.2
	46683301950	MAZAK® NOZZLE Ø 1.5
	46683301821	MAZAK® NOZZLE Ø 2.0
	46683301821-2.2	MAZAK® NOZZLE Ø 2.2
	46683301960	MAZAK® NOZZLE Ø 2.5
	46683301970-3.0	MAZAK® NOZZLE Ø 3.0
	46683301970-3.5	MAZAK® NOZZLE Ø 3.5
	46683301970-4.0	MAZAK® NOZZLE Ø 4.0
	46683301970-4.5	MAZAK® NOZZLE Ø 4.5
	466 833 01910-CP	MAZAK® NOZZLE Ø 1.0 CP
	467 833 01910-1.2-CP	MAZAK® NOZZLE Ø 1.2 CP
	46683301950-CP	MAZAK® NOZZLE Ø 1.5 CP
	46683301821-CP	MAZAK® NOZZLE Ø 2.0 CP
	46683301821-2.2-CP	MAZAK® NOZZLE Ø 2.2 CP
	46683301960-CP	MAZAK® NOZZLE Ø 2.5 CP
46683301970-3.0-CP	MAZAK® NOZZLE Ø 3.0 CP	
46683301970-3.5-CP	MAZAK® NOZZLE Ø 3.5 CP	
46683301970-4.0-CP	MAZAK® NOZZLE Ø 4.0 CP	
46683301970-4.5-CP	MAZAK® NOZZLE Ø 4.5 CP	
2	L850	MAZAK® DOUBLE NOZZLE Ø 1.0
	L851	MAZAK® DOUBLE NOZZLE Ø 1.2
	L852	MAZAK® DOUBLE NOZZLE Ø 1.5
	L858	MAZAK® DOUBLE NOZZLE Ø 1.8
	L853	MAZAK® DOUBLE NOZZLE Ø 2.0
	L849	MAZAK® DOUBLE NOZZLE Ø 2.2
	L854	MAZAK® DOUBLE NOZZLE Ø 2.5
	L855	MAZAK® DOUBLE NOZZLE Ø 3.0
	L856	MAZAK® DOUBLE NOZZLE Ø 3.5
	L850X	MAZAK® DOUBLE NOZZLE Ø 1.0 CP
	L851X	MAZAK® DOUBLE NOZZLE Ø 1.2 CP
	L852X	MAZAK® DOUBLE NOZZLE Ø 1.5 CP
	L858X	MAZAK® DOUBLE NOZZLE Ø 1.8 CP
	L853X	MAZAK® DOUBLE NOZZLE Ø 2.0 CP
	L849X	MAZAK® DOUBLE NOZZLE Ø 2.2 CP
	L854X	MAZAK® DOUBLE NOZZLE Ø 2.5 CP
L855X	MAZAK® DOUBLE NOZZLE Ø 3.0 CP	
L856X	MAZAK® DOUBLE NOZZLE Ø 3.5 CP	



## HYPER GEAR

1	46143304450-1.0	MAZAK® NOZZLE Ø 1.0 CP
	46143304450-1.2	MAZAK® NOZZLE Ø 1.2 CP
	46143304450	MAZAK® NOZZLE Ø 1.5 CP
	46143304460	MAZAK® NOZZLE Ø 2.0 CP
	46143304480	MAZAK® NOZZLE Ø 2.5 CP
	46143304490	MAZAK® NOZZLE Ø 3.0 CP
	46143304500	MAZAK® NOZZLE Ø 3.5 CP
	46143304500-4.0	MAZAK® NOZZLE Ø 4.0 CP
2	46143304450-1.2-CP	MAZAK® DOUBLE NOZZLE Ø 1.2 CP
	46143304450-1.5-CP	MAZAK® DOUBLE NOZZLE Ø 1.5 CP
	46143304460-CP	MAZAK® DOUBLE NOZZLE Ø 2.0 CP
	46143304480-CP	MAZAK® DOUBLE NOZZLE Ø 2.5 CP
	46143304490-CP	MAZAK® DOUBLE NOZZLE Ø 3.0 CP
	46143304500-3.0-CP	MAZAK® DOUBLE NOZZLE Ø 3.5 CP
	46143304500-4.0-CP	MAZAK® DOUBLE NOZZLE Ø 4.0 CP
3	AL242	MAZAK® NOZZLE HOLDER HYPER GEAR

AL103-9"	9" Cable Flex Armor BNC Straight to MCX Straight
AL103-21"	21" Cable Flex Armor BNC Straight to MCX Straight
AL103-24"	24" Cable Flex Armor BNC Straight to MCX Straight
AL103-2M	2 Meter Cable Flex Armor BNC Straight to BNC 90 Degree
	ZnSe Lenses
LPZ1.5-5.0-5382	Plano/Convex Dia 1.5" FL 5.0" ET.236" (OEM P/N Z50ZZ005160)
LPZ1.5-5.0-4881	Plano/Convex Dia 1.5" FL 5.0" ET.310" (OEM P/N Z50MMA000400)
LPZ2.0-7.5-5047	Plano/Convex Dia 2.0" FL 7.5" ET.310" (OEM P/N Z50ZZ005200)
LPZ2.0-7.5-7233	Plano/Convex Dia 2.0" FL 5.0" ET.380" (OEM P/N Z50ZZ005208)
LPZ2.0-5.0-5627	Plano/Convex Dia 2.0" FL 5.0" ET.310" (OEM P/N Z50ZZ005160)
LPZ2.0-5.0-5642	Plano/Convex Dia 2.0" FL 5.0" ET.380"



## CORNER RADIUS KITS

**Produce eight (8) different sized radius corners equally and easily.**

- \*Self-Contained Unit means fast easy set-up
- \*Requires a vertical hit from any type press
- \*Punch material up to 13 gage mild steel

**Fractional Unit:** Cat. Code \*E-RK1002  
1/16, 1/8, 3/16, 1/4, 5/16, 3/8, 7/16, 1/2

**Metric Unit:** Cat. Code \*E-RK1001  
2mm, 3mm, 4mm, 5mm, 6mm, 8mm, 10mm, 12mm

The Corner Radius Kit takes the "Pain" out of corner rounding. This unique, self-contained unit requires only a vertical "hit" from a mach. press, brake, etc... (soft hammer on a bench for short runs) to produce clean corner radii on sheet stock up to 13 gage mild steel. Precision self-aligning punches and dies make 30 second changeover common.

- Shut ht. 3 1/8 • Base 5" x 6 1/4
- box 10 1/2 x 6 1/2 • wgt 13 lb.

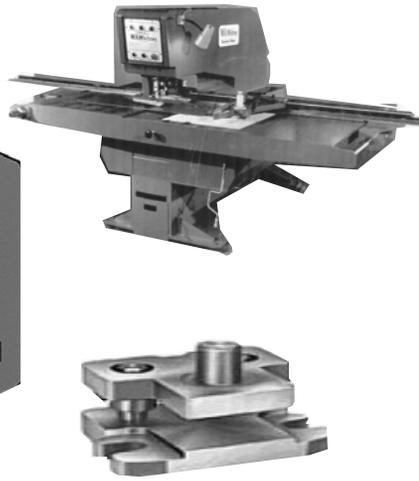
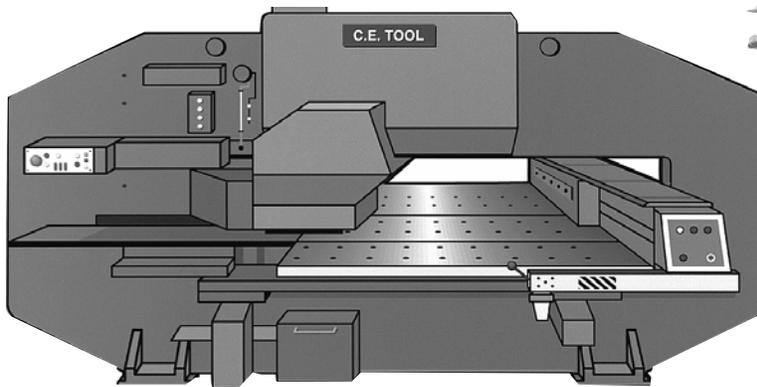


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