



2013–2014 CO₂ laser consumables Mazak®



Our value proposition

- Product breadth – with over 2,800 part numbers
- OEM quality/consistency for nozzles, ceramics and optics
- Technical/application support from OEM-trained technicians
- 100% satisfaction guarantee



Page	OEM
88–90, 92–94, 96, 97, 99–103, 105	Adige
1	Amada
16	Amada – optics
19	Behrens
20	Bystronic
31	Bystronic – optics
33	Cincinnati
34	Cincinnati – optics
88–90, 94, 105	Durma
88–90, 94, 105	Ermaksan
88–90, 92–94, 96, 97, 101–103, 105	Finn Power
88–90, 92–94, 96, 97, 105	GHT
36	Haas
37	Haco
38	Hankwang
88, 94, 105	Hans
93	Koike
41	Laserdyne
42	Laser Lab
42	Laser Lab – optics
43	LVD
46	LVD – optics
47–73, 94, 99, 100, 105	Mazak
74	Mazak – optics
76	Mitsubishi
81	Mitsubishi – optics
83	Murata Wiedemann – Fanuc
84	Niigata
85	NTC – Beyeler
87	NTC – Beyeler – optics
88	Precitec
106	Precitec – optics
108	Prima Industrie
115	Prima Industrie – optics
116	Raskin
117	Rouchaud
118–121, 88–90, 94, 105	Salvagnini
122	Strippit
123	Tanaka
124	Tanaka – optics
125	Thyssen
126	Trumpf
142	Trumpf – optics
144	Valfivre

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CO₂ laser nozzles

Nozzle options

All Centricut nozzles are engineered and manufactured to the highest standards. Select the OEM quality nozzle best suited for your application needs.

Good

Copper nozzles are the most commonly used nozzle and offer good durability and nozzle life.

Better

Chrome plated nozzles have a shiny, mirror-like finish and provide increased spatter resistance, improved durability and longer life than copper nozzles.

Look for CP in the part number to identify a chrome plated nozzle.

Best

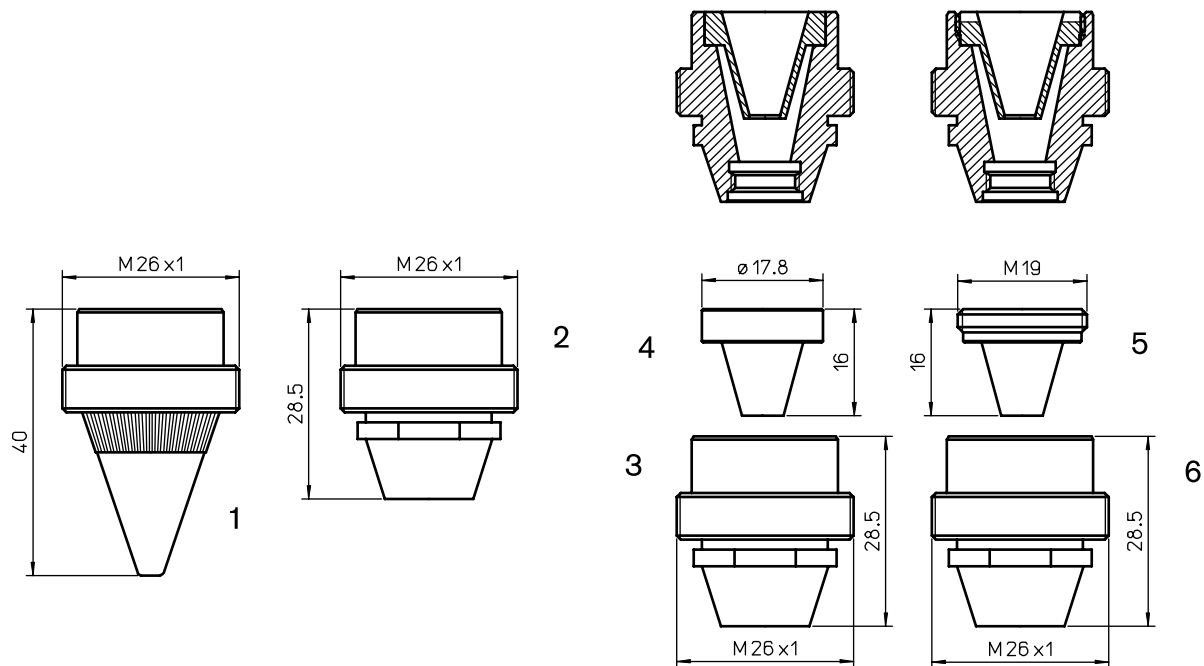
Hard chrome plated nozzles are our premium nozzles offering the highest level of durability and longest nozzle life. These nozzles are not as shiny as chrome plated and have a dull appearance.

Look for HCP in the part number to identify a hard chrome nozzle.

Nozzle selection guide

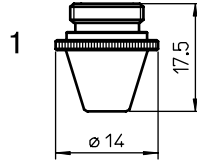
Type of nozzle	Reasons for selecting
CP (chrome plated)	Nozzles plated with chrome for increased durability. These nozzles are easier to clean, resist damage due to 'tip-ups' and have better spatter resistance over non-plated nozzles. For use in all laser cutting applications.
Conical	Conical internal geometry for high pressure, non-ferrous cutting applications using nitrogen, air or argon.
Cylindrical	Cylindrical internal geometry for low pressure, mild steel cutting applications using oxygen.
Double	Insert pressed into a standard cylindrical nozzle for improved edge quality, laminar gas flow and spatter resistance. Primarily used in mild steel applications.
HCP (hard chrome plated)	Enhanced durability chrome plated nozzles. These nozzles are easier to clean, resist damage due to 'tip-ups' and have better spatter resistance over non-plated nozzles. For use in all laser cutting applications.
HP (high pressure) HD (high density)	Conical style nozzle for high pressure, non-ferrous cutting applications using nitrogen, air or argon.
Inner	Also referred to as a 'nozzle insert'. Works in conjunction with an outer nozzle to create a double nozzle. Primarily used in mild steel applications.
Low pressure	Cylindrical style nozzle for low pressure, mild steel cutting applications using oxygen.
Outer	Works in conjunction with an inner nozzle to create a double nozzle. Primarily used in mild steel applications.
Shower	Nozzles with a center orifice surrounded by smaller jets. The smaller jets focus the assist gas into the kerf, creating improved edge quality and the ability to cut thicker material. Primarily used in mild steel applications.





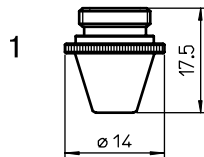
Consumables

	Centricut part number	Reference number	Alternate reference	Description	Pkg qty
1	MZ323-0060-1.0	46523300060	L61	Nozzle - 1.0 mm	1
	MZ323-0062-1.2	46523300062	L60	Nozzle - 1.2 mm	1
	MZ323-0061-1.5	46523300061	L84	Nozzle - 1.5 mm	1
	MZ323-0061-1.7	46523300061	L4	Nozzle - 1.7 mm	1
	MZ323-0018		L331	Nozzle - 1.8 mm	1
	MZ323-0063-2.0	46523300063	L51	Nozzle - 2.0 mm	1
	MZ323-0063-2.5	46523300063	L333	Nozzle - 2.5 mm	1
2	MZ321-0510	46603350510	AL11	Nozzle adaptor	1
3	MZ321-0001	Centricut design	AL44	Nozzle adapter	1
4	MZ321-0045	Centricut design	AL45	Nozzle, inner	1
5	MZ321-0055	Centricut design	AL55	Nozzle, inner	1
6	MZ331-0003	Centricut design	AL54	Nozzle adaptor	1



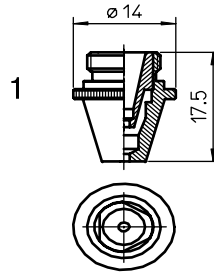
Consumables

	Centricut part number	Reference number	Alternate reference	Description	Pkg qty
1	MZ322-0008	46603350508	L78	Nozzle - 0.8 mm	1
	MZ322-0008X	46603350508	L3078	Nozzle - 0.8 mm (10 pack)	10
	MZ322-0511-1.0	46603350511	L69	Nozzle - 1.0 mm	1
	MZ322-0511X	46603350511	L3069	Nozzle - 1.0 mm (10 pack)	10
	MZ322-0512-1.2	46603350512	L77	Nozzle - 1.2 mm	1
	MZ322-0512X	46603350512	L3077	Nozzle - 1.2 mm (10 pack)	10
	MZ322-0520-1.5	4660335052B	L127	Nozzle - 1.5 mm	1
	PT322-0520X	4660335052B	L30127	Nozzle - 1.5 mm (10 pack)	10
	MZ322-0517-1.7	46603350517	L79	Nozzle - 1.7 mm	1
	MZ322-1517X	46603350517	L3079	Nozzle - 1.7 mm (10 pack)	10
	MZ322-0517	46603350517-1.8	L281	Nozzle - 1.8 mm	1
	MZ322-0517X	46603350517-1.8	L30281	Nozzle - 1.8 mm (10 pack)	10
	MZ322-0522-2.0	4660335052C	L80	Nozzle - 2.0 mm	1
	MZ322-0522X	4660335052C	L3080	Nozzle - 2.0 mm (10 pack)	10
	MZ322-0022	46603350522-2.2	L282	Nozzle - 2.2 mm	1
	MZ322-0022X	46603350522-2.2	L30282	Nozzle - 2.2 mm (10 pack)	10
	MZ322-0525-2.5	46603350525	L124	Nozzle - 2.5 mm	1
	MZ322-0025X	46603350525	L30124	Nozzle - 2.5 mm (10 pack)	10
	MZ322-0530-3.0	46603350530	L150	Nozzle - 3.0 mm	1
	MZ322-0030X	46603350530	L30150	Nozzle - 3.0 mm (10 pack)	10
	MZ322-0530-3.5	46603350530-3.5	L708	Nozzle - 3.5 mm	1
	MZ322-1035X	46603350530-3.5	L30708	Nozzle - 3.5 mm (10 pack)	10
	MZ322-0530-4.0	46603350530-4.0	L709	Nozzle - 4.0 mm	1
	MZ322-1040X	46603350530-4.0	L30709	Nozzle - 4.0 mm (10 pack)	10
	MZ322-1045	46603350530-4.5	L710	Nozzle - 4.5 mm	1
	MZ322-1045X	46603350530-4.5	L30710	Nozzle - 4.5 mm (10 pack)	10
	MZ322-1050	46603350530-5.0	L711	Nozzle - 5.0 mm	1
	MZ322-1050X	46603350530-5.0	L30711	Nozzle - 5.0 mm (10 pack)	10



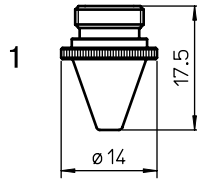
Consumables

	Centricut part number	Reference number	Alternate reference	Description	Pkg qty
1	MZ322-0008CP	46603350508	L78X	Nozzle - 0.8 mm CP	1
	MZ322-0008CPX	46603350508	L3078X	Nozzle - 0.8 mm CP (10 pack)	10
	MZ322-0511CP	46603350511	L69X	Nozzle - 1.0 mm CP	1
	MZ322-0511CPX	46603350511	L3069X	Nozzle - 1.0 mm CP (10 pack)	10
	MZ322-0512CP	46603350512	L77X	Nozzle - 1.2 mm CP	1
	MZ322-0512CPX	46603350512	L3077X	Nozzle - 1.2 mm CP (10 pack)	10
	MZ322-0520CP	4660335052B	L127X	Nozzle - 1.5 mm CP	1
	PT322-0520CPX	4660335052B	L30127X	Nozzle - 1.5 mm CP (10 pack)	10
	MZ322-1517CP	46603350517	L79X	Nozzle - 1.7 mm CP	1
	MZ322-1517CPX	46603350517	L3079X	Nozzle - 1.7 mm CP (10 pack)	10
	MZ322-0517CP	46603350517-1.8	L281X	Nozzle - 1.8 mm CP	1
	MZ322-0517CPX	46603350517-1.8	L30281X	Nozzle - 1.8 mm CP (10 pack)	10
	MZ322-0522CP	4660335052C	L80X	Nozzle - 2.0 mm CP	1
	MZ322-0522CPX	4660335052C	L3080X	Nozzle - 2.0 mm CP (10 pack)	10
	MZ322-0022CP	46603350522-2.2	L282X	Nozzle - 2.2 mm CP	1
	MZ322-0022CPX	46603350522-2.2	L30282X	Nozzle - 2.2 mm CP (10 pack)	10
	MZ322-0025CP	46603350525	L124X	Nozzle - 2.5 mm CP	1
	MZ322-0025CPX	46603350525	L30124X	Nozzle - 2.5 mm CP (10 pack)	10
	MZ322-0030CP	46603350530	L150X	Nozzle - 3.0 mm CP	1
	MZ322-0030CPX	46603350530	L30150X	Nozzle - 3.0 mm CP (10 pack)	10
	MZ322-1035CP	46603350530-3.5	L708X	Nozzle - 3.5 mm CP	1
	MZ322-1035CPX	46603350530-3.5	L30708X	Nozzle - 3.5 mm CP (10 pack)	10
	MZ322-1040CP	46603350530-4.0	L709X	Nozzle - 4.0 mm CP	1
	MZ322-1040CPX	46603350530-4.0	L30709X	Nozzle - 4.0 mm CP (10 pack)	10
	MZ322-1045CP	46603350530-4.5	L710X	Nozzle - 4.5 mm CP	1
	MZ322-1045CPX	46603350530-4.5	L30710X	Nozzle - 4.5 mm CP (10 pack)	10
	MZ322-1050CP	46603350530-5.0	L711X	Nozzle - 5.0 mm CP	1
	MZ322-1050CPX	46603350530-5.0	L30711X	Nozzle - 5.0 mm CP (10 pack)	10



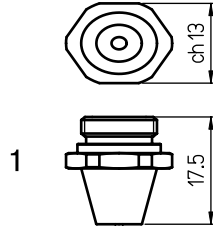
Consumables

	Centricut part number	Reference number	Alternate reference	Description	Pkg qty
	MZ346-0001	Centricut design	L615	Nozzle – 1.0 mm double	1
	MZ346-0001X	Centricut design	L30615	Nozzle – 1.0 mm double (10 pack)	10
	MZ346-0002	Centricut design	L616	Nozzle – 1.2 mm double	1
	MZ346-0002X	Centricut design	L30616	Nozzle – 1.2 mm double (10 pack)	10
	MZ346-0003	Centricut design	L617	Nozzle – 1.5 mm double	1
	MZ346-0003X	Centricut design	L30617	Nozzle – 1.5 mm double (10 pack)	10
	MZ346-0004	Centricut design	L618	Nozzle – 1.7 mm double	1
	MZ346-0004X	Centricut design	L30618	Nozzle – 1.7 mm double (10 pack)	10
	MZ346-0005	Centricut design	L619	Nozzle – 1.8 mm double	1
	MZ346-0005X	Centricut design	L30619	Nozzle – 1.8 mm double (10 pack)	10
	MZ346-0006	Centricut design	L620	Nozzle – 2.0 mm double	1
	MZ346-0006X	Centricut design	L30620	Nozzle – 2.0 mm double (10 pack)	10
	MZ346-0007	Centricut design	L621	Nozzle – 2.2 mm double	1
	MZ346-0007X	Centricut design	L30621	Nozzle – 2.2 mm double (10 pack)	10
	MZ346-0008	Centricut design	L622	Nozzle – 2.5 mm double	1
	MZ346-0008X	Centricut design	L30622	Nozzle – 2.5 mm double (10 pack)	10
	MZ346-0009	Centricut design	L623	Nozzle – 3.0 mm double	1
	MZ346-0009X	Centricut design	L30623	Nozzle – 3.0 mm double (10 pack)	10
1	MZ346-0001CP	Centricut design	L615X	Nozzle – 1.0 mm CP double	1
	MZ346-0001CPX	Centricut design	L30615X	Nozzle – 1.0 mm CP double (10 pack)	10
	MZ346-0002CP	Centricut design	L616X	Nozzle – 1.2 mm CP double	1
	MZ346-0002CPX	Centricut design	L30616X	Nozzle – 1.2 mm CP double (10 pack)	10
	MZ346-0003CP	46683302380	L617X	Nozzle – 1.5 mm CP double	1
	MZ346-0003CPX	Centricut design	L30617X	Nozzle – 1.5 mm CP double (10 pack)	10
	MZ346-0004CP	Centricut design	L618X	Nozzle – 1.7 mm CP double	1
	MZ346-0004CPX	Centricut design	L30618X	Nozzle – 1.7 mm CP double (10 pack)	10
	MZ346-0005CP	Centricut design	L619X	Nozzle – 1.8 mm CP double	1
	MZ346-0005CPX	Centricut design	L30619X	Nozzle – 1.8 mm CP double (10 pack)	10
	MZ346-0006CP	46683302390	L620X	Nozzle – 2.0 mm CP double	1
	MZ346-0006CPX	Centricut design	L30620X	Nozzle – 2.0 mm CP double (10 pack)	10
	MZ346-0007CP	Centricut design	L621X	Nozzle – 2.2 mm CP double	1
	MZ346-0007CPX	Centricut design	L30621X	Nozzle – 2.2 mm CP double (10 pack)	10
	MZ346-0008CP	46683302400	L622X	Nozzle – 2.5 mm CP double	1
	MZ346-0008CPX	Centricut design	L30622X	Nozzle – 2.5 mm CP double (10 pack)	10
	MZ346-0009CP	46683302410	L623X	Nozzle – 3.0 mm CP double	1
	MZ346-0009CPX	Centricut design	L30623X	Nozzle – 3.0 mm CP double (10 pack)	10



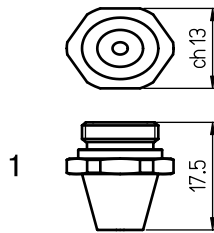
Consumables

	Centricut part number	Reference number	Alternate reference	Description	Pkg qty
1	MZ321-0521-0.8	46603350521	L266	Nozzle - 0.8 mm	1
	MZ321-0008X	46603350521	L30266	Nozzle - 0.8 mm (10 pack)	10
	MZ321-0521-1.0	46603350521	L250	Nozzle - 1.0 mm	1
	MZ321-0010X	46603350521	L30250	Nozzle - 1.0 mm (10 pack)	10
	MZ321-0521-1.2	46603350521	L251	Nozzle - 1.2 mm	1
	MZ321-0012X	46603350521	L30251	Nozzle - 1.2 mm (10 pack)	10
	MZ321-0520-1.5	46603350520	L252	Nozzle - 1.5 mm	1
	MZ321-0520X	46603350520	L30252	Nozzle - 1.5 mm (10 pack)	10
	MZ321-0521-1.7	46603350521	L253	Nozzle - 1.7 mm	1
	MZ321-0017X	46603350521	L30253	Nozzle - 1.7 mm (10 pack)	10
	MZ321-0522-2.0	46603350522	L254	Nozzle - 2.0 mm	1
	MZ321-0054X	46603350522	L30254	Nozzle - 2.0 mm (10 pack)	10
	MZ321-0522-2.5	46603350522	L770	Nozzle - 2.5 mm	1
	MZ321-1025X	46603350522	L30770	Nozzle - 2.5 mm (10 pack)	10
	MZ321-0522-3.0	46683301281	L771	Nozzle - 3.0 mm	1
	MZ321-1030X	46683301281	L30771	Nozzle - 3.0 mm (10 pack)	10
	MZ321-0008CP	46603350521	L266X	Nozzle - 0.8 mm CP	1
	MZ321-0008CPX	46603350521	L30266X	Nozzle - 0.8 mm CP (10 pack)	10
	MZ321-0010CP	46603350521	L250X	Nozzle - 1.0 mm CP	1
	MZ321-0010CPX	46603350521	L30250X	Nozzle - 1.0 mm CP (10 pack)	10
	MZ321-521-1.2CP	46603350521	L251X	Nozzle - 1.2 mm CP	1
	MZ321-0012CPX	46603350521	L30251X	Nozzle - 1.2 mm CP (10 pack)	10
	MZ321-520-1.5CP	46603350520	L252X	Nozzle - 1.5 mm CP	1
	MZ321-0520CPX	46603350520	L30252X	Nozzle - 1.5 mm CP (10 pack)	10
	MZ321-0017CP	46603350521	L253X	Nozzle - 1.7 mm CP	1
	MZ321-0017CPX	46603350521	L30253X	Nozzle - 1.7 mm CP (10 pack)	10
	MZ321-522-2.0CP	46603350522	L254X	Nozzle - 2.0 mm CP	1
	MZ321-0054CPX	46603350522	L30254X	Nozzle - 2.0 mm CP (10 pack)	10
	MZ321-522-2.5CP	46603350522	L770X	Nozzle - 2.5 mm CP	1
	MZ321-1025CPX	46603350522	L30770X	Nozzle - 2.5 mm CP (10 pack)	10
	MZ321-522-3.0CP	46683301281	L771X	Nozzle - 3.0 mm CP	1
	MZ321-1030CPX	46683301281	L30771X	Nozzle - 3.0 mm CP (10 pack)	10



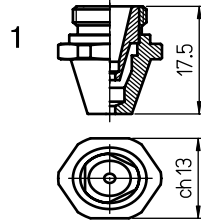
Consumables

	Centricut part number	Reference number	Alternate reference	Description	Pkg qty
1	MZ385-0508	46603350508	L725	Nozzle – 0.8 mm hex	1
	MZ385-0508X	46603350508	L30725	Nozzle – 0.8 mm hex (10 pack)	10
	MZ385-0511	46603350511	L726	Nozzle – 1.0 mm hex	1
	MZ385-0511X	46603350511	L30726	Nozzle – 1.0 mm hex (10 pack)	10
	MZ385-0502	4660335052A	L727	Nozzle – 1.2 mm hex	1
	MZ385-0502X	4660335052A	L30727	Nozzle – 1.2 mm hex (10 pack)	10
	MZ385-0502B	4660335052B	L728	Nozzle – 1.5 mm hex	1
	MZ385-0502BX	4660335052B	L30728	Nozzle – 1.5 mm hex (10 pack)	10
	MZ385-0517	46603350517	L729	Nozzle – 1.7 mm hex	1
	MZ385-0517X	46603350517	L30729	Nozzle – 1.7 mm hex (10 pack)	10
	MZ385-517	46603350517-1.8	L730	Nozzle – 1.8 mm hex	1
	MZ385-517X	46603350517-1.8	L30730	Nozzle – 1.8 mm hex (10 pack)	10
	MZ385-5052C	4660335052C	L731	Nozzle – 2.0 mm hex	1
	MZ385-5052CX	4660335052C	L30731	Nozzle – 2.0 mm hex (10 pack)	10
	MZ385-0522	46603350522-2.2	L732	Nozzle – 2.2 mm hex	1
	MZ385-0522X	46603350522-2.2	L30732	Nozzle – 2.2 mm hex (10 pack)	10
	MZ385-0003	4660335052D	L733	Nozzle – 2.5 mm hex	1
	MZ385-0003X	4660335052D	L30733	Nozzle – 2.5 mm hex (10 pack)	10
	MZ385-1003	46603350530	L734	Nozzle – 3.0 mm hex	1
	MZ385-1003X	46603350530	L30734	Nozzle – 3.0 mm hex (10 pack)	10
	MZ385-0030	46603350530-3.5	L735	Nozzle – 3.5 mm hex	1
	MZ385-0030X	46603350530-3.5	L30735	Nozzle – 3.5 mm hex (10 pack)	10
	MZ385-0530	46603350530-4.0	L736	Nozzle – 4.0 mm hex	1
	MZ385-0530X	46603350530-4.0	L30736	Nozzle – 4.0 mm hex (10 pack)	10
	MZ385-530	46603350530-4.5	L737	Nozzle – 4.5 mm hex	1
	MZ385-530X	46603350530-4.5	L30737	Nozzle – 4.5 mm hex (10 pack)	10



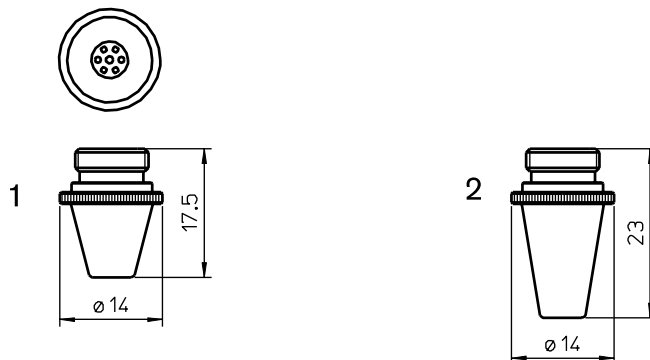
Consumables

	Centricut part number	Reference number	Alternate reference	Description	Pkg qty
1	MZ385-0508CP	46603350508	L725X	Nozzle - 0.8 mm hex CP	1
	MZ385-0508CPX	46603350508	L30725X	Nozzle - 0.8 mm hex CP (10 pack)	10
	MZ385-0511CP	46603350511	L726X	Nozzle - 1.0 mm hex CP	1
	MZ385-0511CPX	46603350511	L30726X	Nozzle - 1.0 mm hex CP (10 pack)	10
	MZ385-0502CP	4660335052A	L727X	Nozzle - 1.2 mm hex CP	1
	MZ385-0502CPX	4660335052A	L30727X	Nozzle - 1.2 mm hex CP (10 pack)	10
	MZ385-052CP	4660335052B	L728X	Nozzle - 1.5 mm hex CP	1
	MZ385-052CPX	4660335052B	L30728X	Nozzle - 1.5 mm hex CP (10 pack)	10
	MZ385-0517CP	46603350517	L729X	Nozzle - 1.7 mm hex CP	1
	MZ385-0517CPX	46603350517	L30729X	Nozzle - 1.7 mm hex CP (10 pack)	10
	MZ385-517CP	46603350517-1.8	L730X	Nozzle - 1.8 mm hex CP	1
	MZ385-517CPX	46603350517-1.8	L30730X	Nozzle - 1.8 mm hex CP (10 pack)	10
	MZ385-0052CP	4660335052C	L731X	Nozzle - 2.0 mm hex CP	1
	MZ385-0052CPX	4660335052C	L30731X	Nozzle - 2.0 mm hex CP (10 pack)	10
	MZ385-0522CP	46603350522-2.2	L732X	Nozzle - 2.2 mm hex CP	1
	MZ385-0522CPX	46603350522-2.2	L30732X	Nozzle - 2.2 mm hex CP (10 pack)	10
	MZ385-0003CP	4660335052D	L733X	Nozzle - 2.5 mm hex CP	1
	MZ385-0003CPX	4660335052D	L30733X	Nozzle - 2.5 mm hex CP (10 pack)	10
	MZ385-1003CP	46603350530	L734X	Nozzle - 3.0 mm hex CP	1
	MZ385-1003CPX	46603350530	L30734X	Nozzle - 3.0 mm hex CP (10 pack)	10
	MZ385-0030CP	46603350530-3.5	L735X	Nozzle - 3.5 mm hex CP	1
	MZ385-0030CPX	46603350530-3.5	L30735X	Nozzle - 3.5 mm hex CP (10 pack)	10
	MZ385-0530CP	46603350530-4.0	L736X	Nozzle - 4.0 mm hex CP	1
	MZ385-0530CPX	46603350530-4.0	L30736X	Nozzle - 4.0 mm hex CP (10 pack)	10
	MZ385-530CP	46603350530-4.5	L737X	Nozzle - 4.5 mm hex CP	1
	MZ385-530CPX	46603350530-4.5	L30737X	Nozzle - 4.5 mm hex CP (10 pack)	10



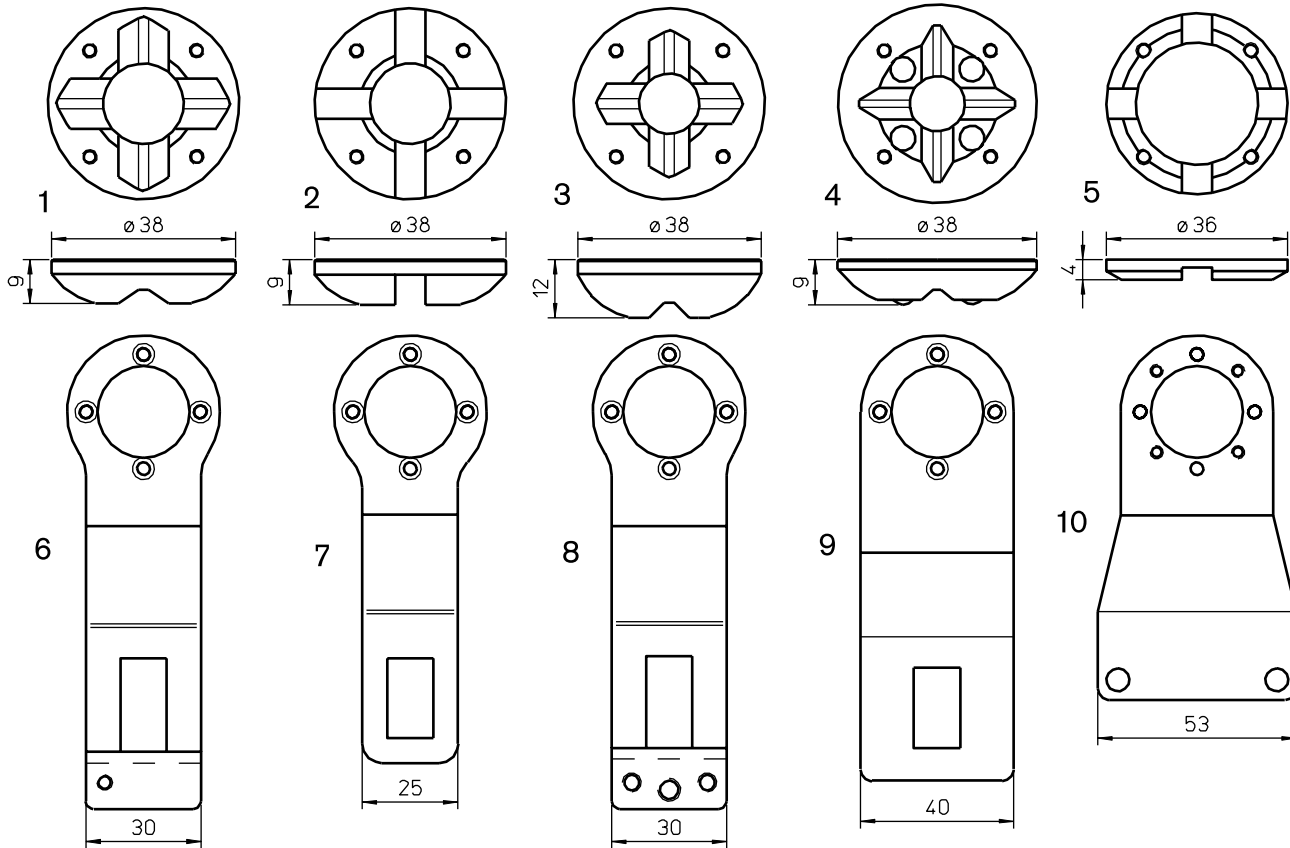
Consumables

	Centricut part number	Reference number	Alternate reference	Description	Pkg qty
1	MZ419-0001		L1223	Nozzle - 1.2 mm double hex	1
	MZ419-0001X		L301223	Nozzle - 1.2 mm double hex (10 pack)	10
	MZ419-0002		L1224	Nozzle - 1.5 mm double hex	1
	MZ419-0002X		L301224	Nozzle - 1.5 mm double hex (10 pack)	10
	MZ419-0003		L1225	Nozzle - 1.8 mm double hex	1
	MZ419-0003X		L301225	Nozzle - 1.8 mm double hex (10 pack)	10
	MZ419-0004		L1226	Nozzle - 2.0 mm double hex	1
	MZ419-0004X		L301226	Nozzle - 2.0 mm double hex (10 pack)	10
	MZ419-0005		L1227	Nozzle - 2.2 mm double hex	1
	MZ419-0005X		L301227	Nozzle - 2.2 mm double hex (10 pack)	10
	MZ419-0006		L1228	Nozzle - 2.5 mm double hex	1
	MZ419-0006X		L301228	Nozzle - 2.5 mm double hex (10 pack)	10
	MZ419-0007		L1229	Nozzle - 3.0 mm double hex	1
	MZ419-0007X		L301229	Nozzle - 3.0 mm double hex (10 pack)	10
	MZ419-0001CP		L1223X	Nozzle - 1.2 mm double hex CP	1
	MZ419-0001CPX		L301223X	Nozzle - 1.2 mm double hex CP (10 pack)	10
	MZ419-0002CP		L1224X	Nozzle - 1.5 mm double hex CP	1
	MZ419-0002CPX		L301224X	Nozzle - 1.5 mm double hex CP (10 pack)	10
	MZ419-0003CP		L1225X	Nozzle - 1.8 mm double hex CP	1
	MZ419-0003CPX		L301225X	Nozzle - 1.8 mm double hex CP (10 pack)	10
	MZ419-0004CP		L1226X	Nozzle - 2.0 mm double hex CP	1
	MZ419-0004CPX		L301226X	Nozzle - 2.0 mm double hex CP (10 pack)	10
	MZ419-0005CP		L1227X	Nozzle - 2.2 mm double hex CP	1
	MZ419-0005CPX		L301227X	Nozzle - 2.2 mm double hex CP (10 pack)	10
	MZ419-0006CP		L1228X	Nozzle - 2.5 mm double hex CP	1
	MZ419-0006CPX		L301228X	Nozzle - 2.5 mm double hex CP (10 pack)	10
	MZ419-0007CP		L1229X	Nozzle - 3.0 mm double hex CP	1
	MZ419-0007CPX		L301229X	Nozzle - 3.0 mm double hex CP (10 pack)	10



Consumables

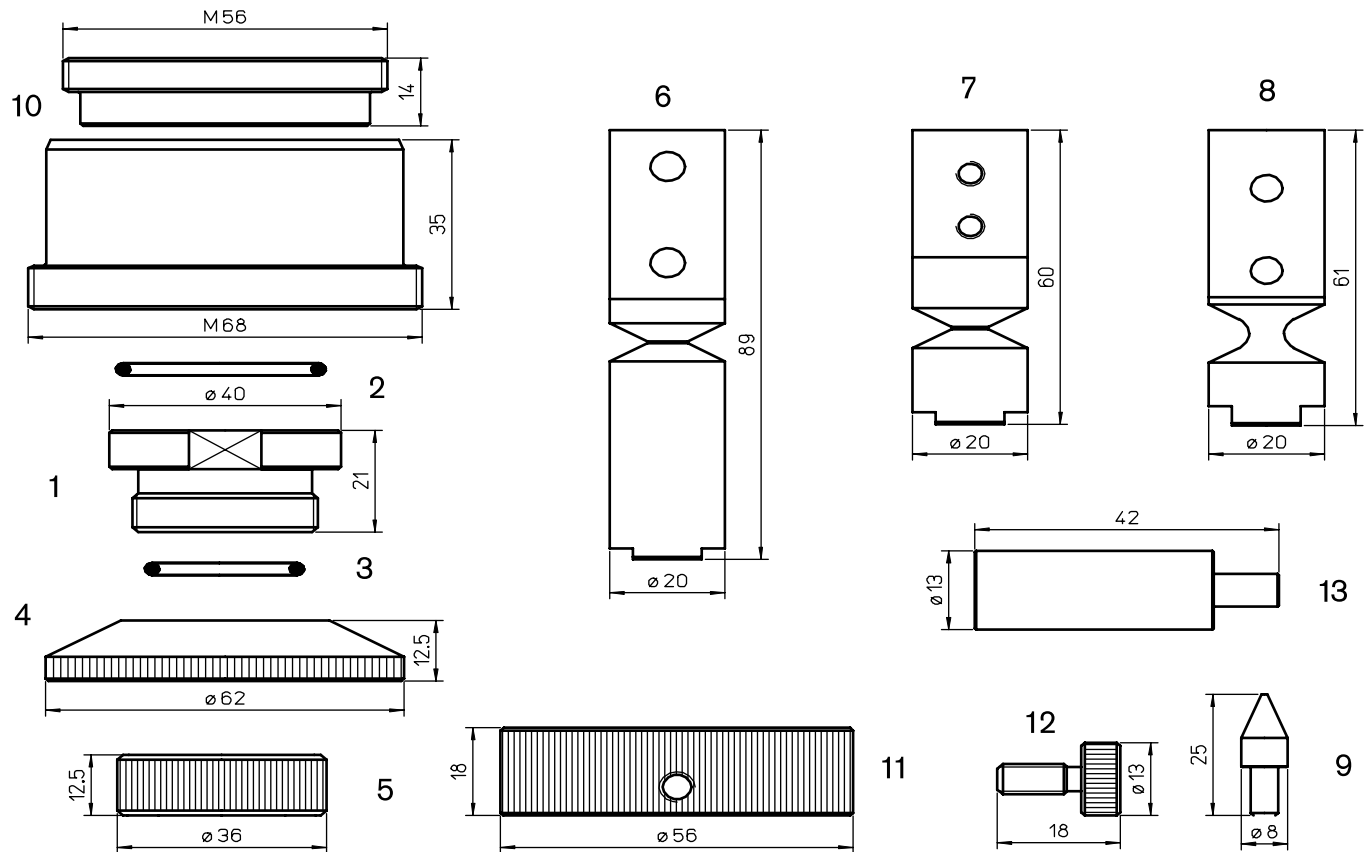
	Centricut part number	Reference number	Alternate reference	Description	Pkg qty
1	MZ322-0523	46603350523	L492	Nozzle - 1.0 mm shower	1
	MZ322-0523-1.5		L493	Nozzle - 1.5 mm shower	1
	MZ322-0523-2.0		L497	Nozzle - 2.0 mm shower	1
	MZ322-0001		L284	Nozzle - 2.0 mm long	1
	MZ322-0002		L285	Nozzle - 2.5 mm long	1
	MZ332-0003		L286	Nozzle - 3.0 mm long	1
2	MZ322-0015CP		L373X	Nozzle - 1.5 mm CP long	1
	MZ322-0001CP		L284X	Nozzle - 2.0 mm CP long	1
	MZ322-0002CP		L285X	Nozzle - 2.5 mm CP long	1
	MZ332-0003CP		L286X	Nozzle - 3.0 mm CP long	1



Accessories

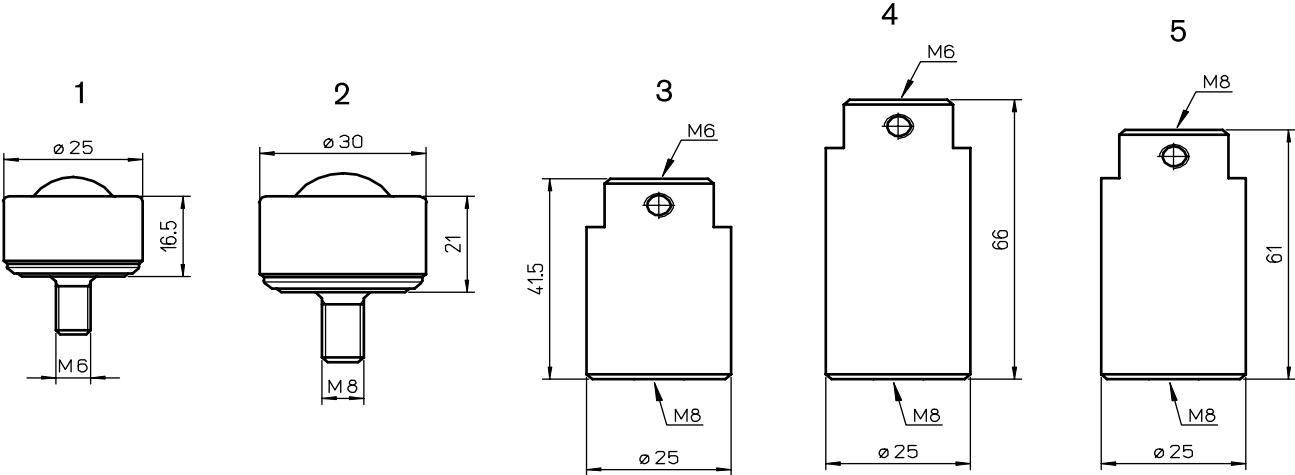
	Centricut part number	Reference number	Alternate reference	Description	Pkg qty
1	MZ309-5080	46602350080	AL10	Stylus foot H9 - brass	1
	MZ309-5080CP		AL145	Stylus foot H9 - brass CP	1
	MZ309-1043	46572301043	AL15	Stylus foot H9 - steel	1
	MZ309-1045	46572301045	AL16	Stylus foot H9 - PTFE*	1
2	MZ309-0001		AL132	Stylus foot H9 - brass	1
	MZ309-0001CP		AL146	Stylus foot H9 - brass CP	1
	MZ309-0004		AL133	Stylus foot H9 - steel	1
3	MZ309-1041	46572301041	AL17	Stylus foot H12 - brass	1
	MZ309-1041CP		AL147	Stylus foot H12 - brass CP	1
	MZ309-1042	46572301042	AL59	Stylus foot H12 - steel	1
	MZ309-1041T	46572301041	AL18	Stylus foot H12 - PTFE*	1
4	MZ309-0003		AL39	Stylus foot - H9 brass w/ball bearing	1
5	MZ309-0520	46512300520	AL117	Stylus foot H4 - brass	1
6	MZ309-0005		AL64	Stylus arm w/screw M4	1
	MZ309-0580	36602300580	AL66	Stylus arm w/screw M6	1
7	MZ309-0560	36602300560, 36682300050	AL60	Stylus arm - steel	1
8	MZ309-0281	36682300281	AL167	Stylus arm - steel	1
9	MZ309-0020	36602350020	AL168	Stylus arm - large offset	1
10	MZ309-0250	46522300250	AL169	Stylus arm	1
	MZ309-001 (not shown)			Screws for stylus feet	10

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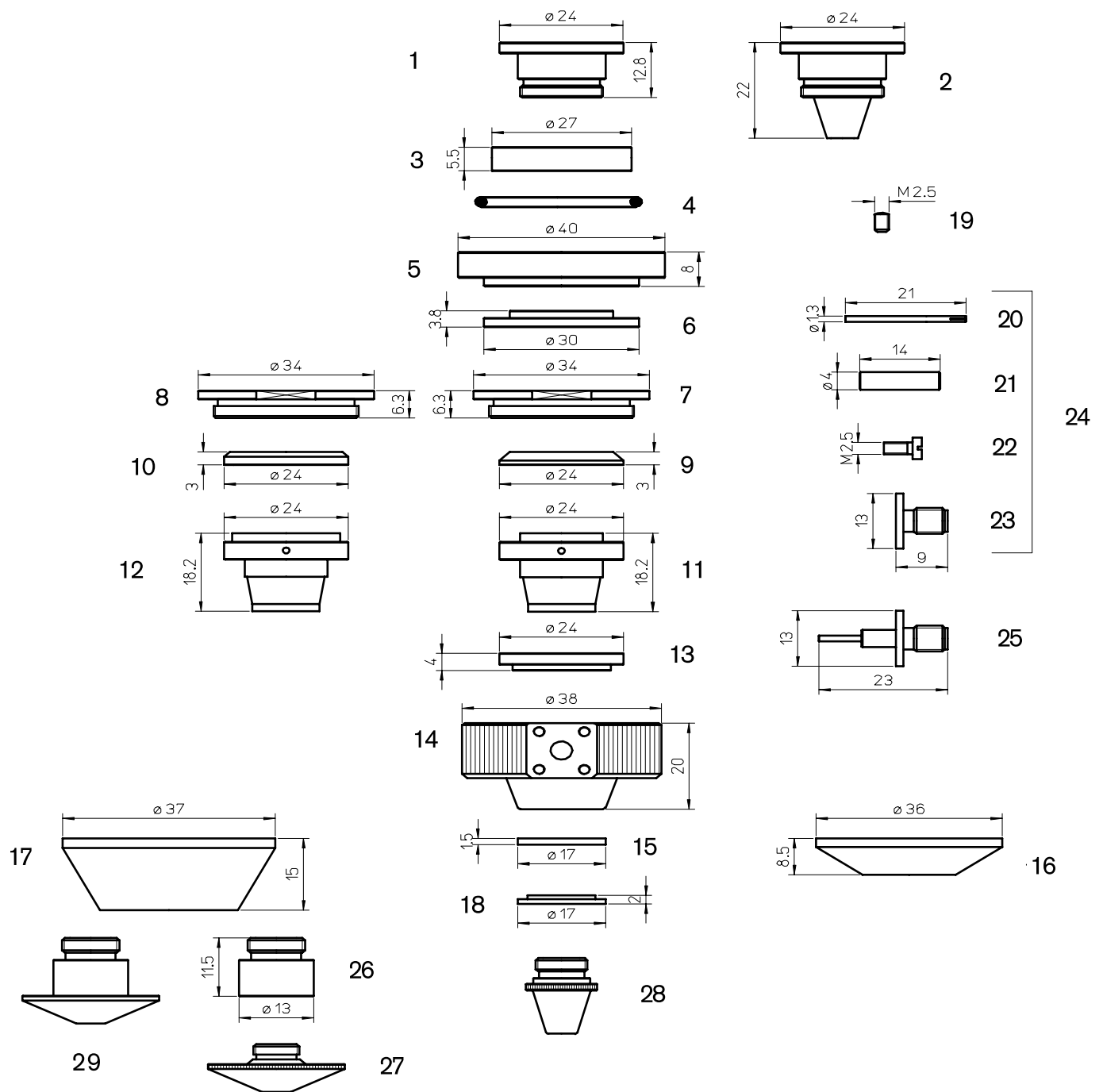
Accessories

	Centricut part number	Reference number	Alternate reference	Description	Pkg qty
1	MZ309-0080	46523300080	AL63	Base	1
2	MZ309-3200	J2600S03200	AL97	O-ring external base (rubber)	1
3	MZ309-2200	J2600S02200	AL98	O-ring internal base	1
4	MZ309-0030	46683300030	AL57	Retainer	1
5	MZ309-1720	46583301720	AL13	Retainer nut	1
6	MZ309-0550	36602300230	AL12	Break-away bar L89-M8	1
7	MZ309-0280	36682300280	AL14	Break-away bar L60-M8 (aluminum)	1
8	MZ309-0101	36572300101	AL121	Break-away bar L61-M6	1
9	MZ309-0013	46600030013	AL20	Table pin	5
10	MZ309-309-1		AL106	Housing for 2.0" lens	1
11	MZ335-0930	46683300930	AL153	Ring	1
	MZ335-0003		AL166	Ring kit - (MZ335-0930 and 4 x MZ335-0320)	1
12	MZ335-0320	46683300032	AL152	Mild steel bolt M5 x 0.5	1
13	MZ335-0008	46522300242	AL186	Stylus pin	1



Accessories

	Centricut part number	Reference number	Alternate reference	Description	Pkg qty
1	MZ309-Z580	Z21KV000580	AL61	Roller ball - 25 mm - M6	1
	MZ309-Z580X	Z21KV000580	AL3061	Roller ball - 25 mm - M6 (10 pack)	10
2	MZ309-1160	Z21ZZ001160	AL210	Roller ball - 30 mm - M8	1
3	MZ309-0321	46575100321	AL62	Block, stainless steel - 41.5 mm	1
4	MZ309-0050	46705100050	AL134	Block, stainless steel, long - 66 mm	1
5	MZ309-0324		AL324	Block, stainless steel - 61 mm	1



Consumables

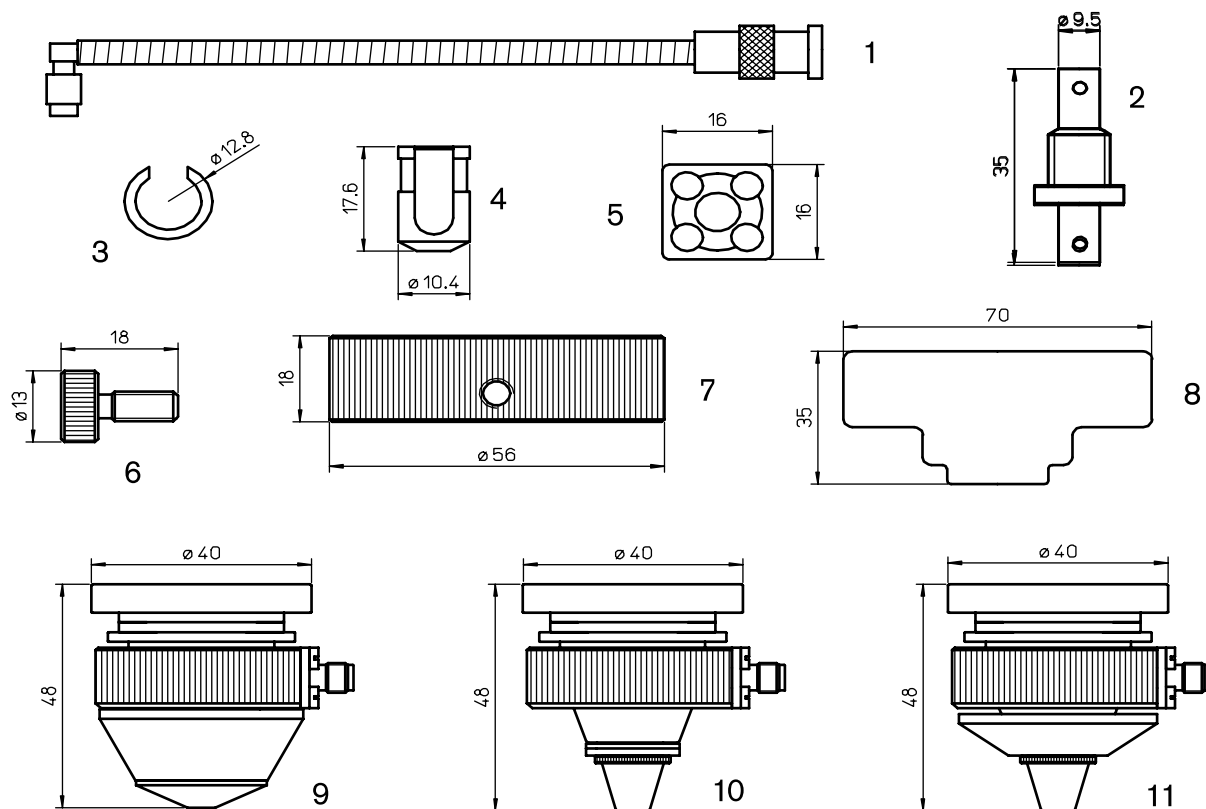
	Centricut part number	Reference number	Alternate reference	Description	Pkg qty
1	MZ335-1110	46683301110	AL74	Central copper body	1
2	MZ335-0100	Centricut design	AL112	Central copper body	1
3	MZ335-1080	46683301080	AL80	Spacer - 27x5.5 PTFE*	1
	MZ335-1080P	46683301080	AL80/P	Spacer 27x5.5 - plastic	1
	MZ335-1080C	46683301080	AL280	Spacer 27x5.5 - ceramic	1
	MZ335-1080M	46683301080	ALM280	Spacer 27x5.5 - ceramic	1
4	MZ309-3200	J2600S03200	AL97	O-ring external base - rubber	1
5	MZ335-1070	46683301070	AL84	Base - brass	1

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Consumables

	Centricut part number	Reference number	Alternate reference	Description	Pkg qty
6	MZ335-1090	46683301090	AL79	Spacer 30x4 – PTFE*	1
	MZ335-0090C	46683301090	AL79/P	Spacer 30x4 – plastic	1
	MZ335-1090C	46683301090	AL279	Spacer 30x4 – ceramic	1
	MZ335-1090M	46683301090	ALM279	Spacer 30x4 – ceramic	1
7	MZ335-1100	46683301100	AL83	Nut – copper	1
8	MZ335-1101	46773300510	AL376	Nut – copper	1
9	MZ335-1120	46683301120	AL77	Spacer 24x3 – PTFE*	1
	MZ335-1120LL	46683301120	AL77/P	Spacer 24x3 – plastic	1
	MZ335-1120C	46683301120	AL277	Spacer 24x3 – ceramic	1
	MZ335-1120M	46683301120	ALM277	Spacer 24x3 – ceramic	1
10	MZ335-0710	46773300710	AL377	Spacer 24x3 – ceramic	1
	MZ335-0710M	46773300710	ALM377	Spacer 24x3 – ceramic	1
11	MZ335-0850	46683300850	AL75	Nozzle holder – copper	1
12	MZ335-0720	46773300720	AL253	Nozzle holder – copper	1
13	MZ335-1130	46683301130	AL78	Spacer 24x4 – PTFE*	1
	MZ335-1130LL	46683301130	AL78/P	Spacer 24x4 – plastic	1
	MZ335-1130C	46683301130	AL278	Spacer 24x4 – ceramic	1
	MZ335-1130M	46683301130	ALM278	Spacer 24x4 – ceramic	1
14	MZ335-1140	46683301140	AL73	Body – aluminum	1
15	MZ335-1150	46683301150	AL81	Spacer 17x1.5 – PTFE*	1
16	MZ335-1930	46683301930	AL111	Protection disk – PTFE*	1
	MZ335-1930LL	46683301930	AL111/P	Protection disk – plastic	1
	MZ335-0009	46683301930	AL275	Protection disk – ceramic	1
17	MZ335-1841	46683301841	AL118	Spacer – PTFE*	1
18	MZ335-1160	46683301160	AL82	Ring 17x2 – copper	1
19	MZ335-1180	46683301180	AL119	Screw for contact	1
20	MZ335-1170	46683301170	AL76	Contact	1
21	MZ335-0030		AL88	Connecting PTFE* pipe	1
22	MZ335-0000	46683300000	AL127	Screw for connectors (4 pcs)	4
23	MZ335-1113		AL113	Connector	1
24	MZ335-0001	46683301170	AL154	Kit connector (AL76,88,127,113)	1
25	MZ335-0001A		AL213	Connector assembly	1
26	MZ335-1830	46683301830	AL128	Adaptor for Trumpf style nozzles	1
27	Please refer to the Trumpf nozzle section				
28	Please refer to the Mazak nozzle section				
29	Please refer to the Mazak nozzle section				

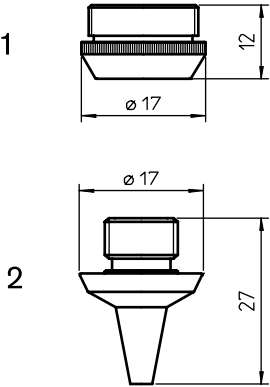
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Consumables

	Centricut part number	Reference number	Alternate reference	Description	Pkg qty
1	MZ335-1980	46683301980	AL103	Connecting cable – sensor head (28 cm)	1
	MZ335-1330	46683301330	AL103/S	Connecting cable – sensor head (31 cm)	1
2	MZ335-0005		AL104	Cable adaptor	1
3	MZ335-1870	46683301870	AL155	Cover clips – PTFE*	1
4	MZ335-1860	46683301860	AL156	Cable connector cover – PTFE*	1
	MZ335-1860LL	46683301860	AL156/P	Cable connector cover long life plastic	1
5	MZ335-1850	46683301850	AL157	Connector cover – PTFE*	1
	MZ335-1850P	46683301850	AL157/P	Connector cover long life – plastic	1
6	MZ335-0320	46683300032	AL152	Mild steel bolt M5 X 0.5	1
7	MZ335-0930	46683300930	AL153	Ring	1
	MZ335-0003		AL166	Ring kit (MZ335-0930 and 4 x MZ335-0320)	1
8	MZ335-1230	46683301230	AL165	Plate	1
9	MZ335-0002		TMA10	Head w/PTFE* spacer	1
	MZ335-0012		TMA10/P	Head w/long life spacer	1
	MZ335-1013		TMA10/C	Head w/ceramic spacer	1
10	MZ335-1014		TMA20	Head w/PTFE* spacer	1
	MZ335-0015		TMA20/P	Head w/long life spacer	1
	MZ335-0016		TMA20/C	Head w/ceramic spacer	1
11	MZ335-0017		TMA30	Head w/PTFE* spacer	1
	MZ335-0018		TMA30/P	Head w/long life spacer	1
	MZ335-0019		TMA30/C	Head w/ceramic spacer	1

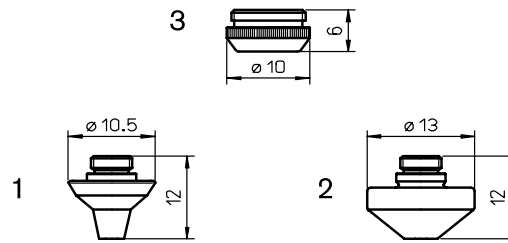
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Consumables

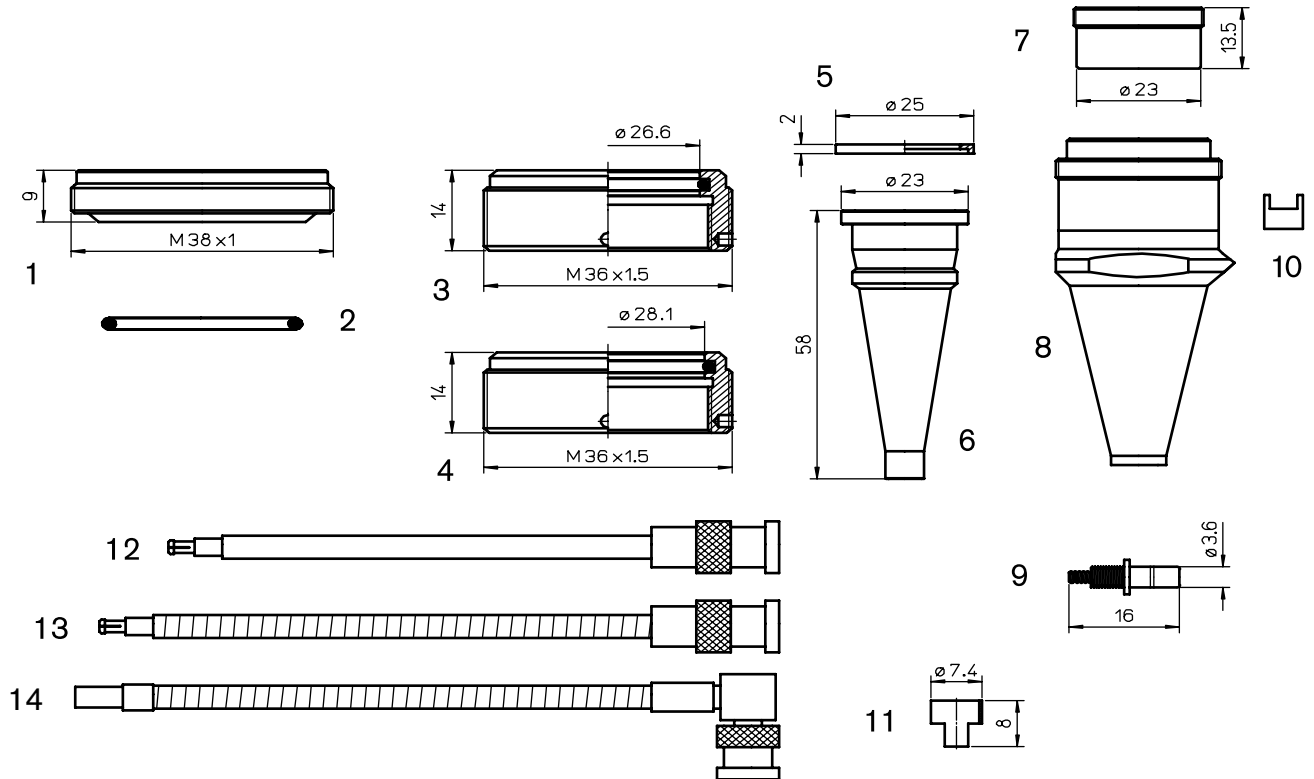
	Centricut part number	Reference number	Alternate reference	Description	Pkg qty
1	MZ332-1280	46713331280	AL337	Nut – Vespel®	1
2	MZ332-1305		L1300	Nozzle – 1.0 mm 3D	1
	MZ332-1320	46713331320	L1295	Nozzle – 1.2 mm 3D	1
	MZ332-1310	46713331310	L1296	Nozzle – 1.5 mm 3D	1
	MZ332-1301		L1301	Nozzle – 1.8 mm 3D	1
	MZ332-1300	46713331300	L1297	Nozzle – 2.0 mm 3D	1
	MZ332-1330	46713331330	L1298	Nozzle – 2.5 mm 3D	1
	MZ332-1290	46713331290	L1299	Nozzle – 3.0 mm 3D	1

Mazak® 3D – Precitec® 5"C/MG – 5"H/MG



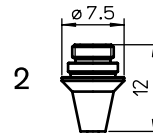
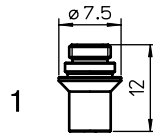
Consumables

	Centricut part number	Reference number	Alternate reference	Description	Pkg qty
1	PT347-0005	46713300290-10	L554	Nozzle – 1.0 mm 3D	1
	PT347-0005X	46713300290-10	L30554	Nozzle – 1.0 mm 3D (10 pack)	10
	PT347-0290-1.2	46713300290-12	L555	Nozzle – 1.2 mm 3D	1
	PT347-0090X	46713300290-12	L30555	Nozzle – 1.2 mm 3D (10 pack)	10
	PT347-0290	46713300290-15, P0352-381-00015	L556	Nozzle – 1.5 mm 3D	1
	PT347-0290X	46713300290-15, P0352-381-00015	L30556	Nozzle – 1.5 mm 3D (10 pack)	10
	PT347-0118		L557	Nozzle – 1.8 mm 3D	1
	PT347-0118X		L30557	Nozzle – 1.8 mm 3D (10 pack)	10
	PT347-0280	46713300310, P0352-382-00020	L558	Nozzle – 2.0 mm 3D	1
	PT347-0280X	46713300310, P0352-382-00020	L30558	Nozzle – 2.0 mm 3D (10 pack)	10
	PT347-0001	46713300280-25	L560	Nozzle – 2.5 mm 3D	1
	PT347-0001X	46713300280-25	L30560	Nozzle – 2.5 mm 3D (10 pack)	10
	PT347-0002	46713300280-30, 46713300430	L563	Nozzle – 3.0 mm 3D	1
	PT347-0002X	46713300280-30	L30563	Nozzle – 3.0 mm 3D (10 pack)	10
	PT347-0035	46713300280-35	L564	Nozzle – 3.5 mm 3D	1
	PT347-0035X	46713300280-35	L30564	Nozzle – 3.5 mm 3D (10 pack)	10
2	PT347-0004		L576	Nozzle – 1.0 mm 2D	1
	PT347-0004X		L30576	Nozzle – 1.0 mm 2D (10 pack)	10
	PT347-0310-1.2	46713300310	L577	Nozzle – 1.2 mm 2D	1
	PT347-0012X	46713300310	L30577	Nozzle – 1.2 mm 2D (10 pack)	10
	PT347-0310	P0352-386-00015	L578	Nozzle – 1.5 mm 2D	1
	PT347-0310X	P0352-386-00015	L30578	Nozzle – 1.5 mm 2D (10 pack)	10
	PT347-1018		L579	Nozzle – 1.8 mm 2D	1
	PT-347-1018X		L30579	Nozzle – 1.8 mm 2D (10 pack)	10
	PT347-0300	46713300300, P0352-387-00020	L580	Nozzle – 2.0 mm 2D	1
	PT347-0300X	46713300300, P0352-387-00020	L30580	Nozzle – 2.0 mm 2D (10 pack)	10
	PT347-0003	46713300300-25	L581	Nozzle – 2.5 mm 2D	1
	PT347-0003X	46713300300-25	L30581	Nozzle – 2.5 mm 2D (10 pack)	10
	PT347-0006	46713300300-30	L582	Nozzle – 3.0 mm 2D	1
	PT347-0006X	46713300300-30	L30582	Nozzle – 3.0 mm 2D (10 pack)	10
3	PT347-0320	46713300321, P0352-311-00001	AL160	Union nut – Vespel®	1



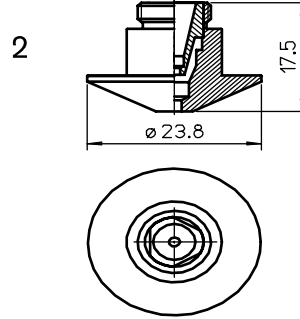
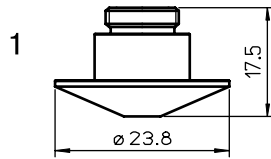
Consumables

	Centricut part number	Reference number	Alternate reference	Description	Pkg qty
1	PT347-4297	P0492-702-00001, 29100021	AL198	Outer body insulating ring	1
2	AM326-6453	71366453	AL94	Outer nozzle o-ring	1
3	PT347-0008	46713330200	AL218	Outer body isolating ring (Precitec)	1
4	PT347-0920	46713330920	AL221	Outer body isolating ring (Mazak)	1
5	PT347-350	46713330960	AL350	Inner cone isolating ring	1
6	PT347-349	46713330930	AL349	Inner sensor cone	1
7	PT347-0940	46713330940	AL353	Retaining ring	1
8	PT347-1240	46713331240	AL351	Torch outer body	1
9	PT347-1111	46713331111	AL354	Connector w/spring	1
10	PT347-0951 NEW	46713330951	AL356	Connector cup	1
11	PT347-0009		AL256	Connector protector	1
12	PT347-0101	P0360-100-00500, 46713300100	AL204	Sensor cable 500 mm (OEM)	1
13	PT347-1386	281386, P0360-155-00500	AL257	Sensor cable - armored	1
14	PT347-0181	46743300181	AL358	Sensor cable 305 mm - armored (12")	1
	PT347-9006 (not shown)	HNP-006		Connector cup - HNP	1
	PT347-3323 (not shown)	567123323A1		Nozzle body HNPZ	1



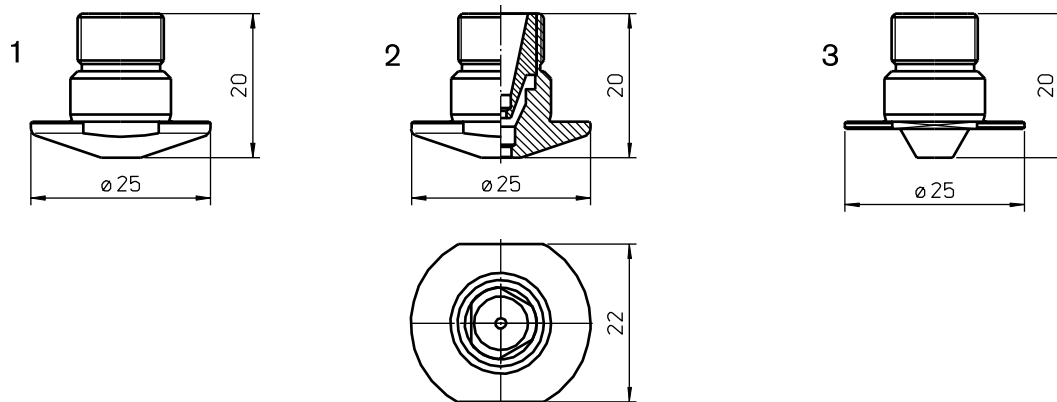
Consumables

	Centricut part number	Reference number	Alternate reference	Description	Pkg qty
1	PT347-1005	281005, P0352-323-00010	L480	Nozzle - 1.0 mm ZK	1
	PT347-1005X	281005, P0352-323-00010	L30480	Nozzle - 1.0 mm ZK (10 pack)	10
	PT347-1034	281034, P0352-324-00012	L481	Nozzle - 1.2 mm ZK	1
	PT347-1034X	281034, P0352-324-00012	L30481	Nozzle - 1.2 mm ZK (10 pack)	10
	PT347-1013	281013, P0352-325-00015	L482	Nozzle - 1.5 mm ZK	1
	PT347-1013X	281013, P0352-325-00015	L30482	Nozzle - 1.5 mm ZK (10 pack)	10
	PT347-0899	280899, P0352-326-00018	L483	Nozzle - 1.8 mm ZK	1
	PT347-0899X	280899, P0352-326-00018	L30483	Nozzle - 1.8 mm ZK (10 pack)	10
	PT347-0044-3	350044.3, P0352-327-00020	L484	Nozzle - 2.0 mm ZK	1
	PT347-0044X	350044.3, P0352-327-00020	L30484	Nozzle - 2.0 mm ZK (10 pack)	10
	PT347-1025	P0352-328-00025	L485	Nozzle - 2.5 mm ZK	1
	PT347-1025X	350044.3, P0352-328-00025	L30485	Nozzle - 2.5 mm ZK (10 pack)	10
2	PT347-1006	281006, P0352-333-00010	L486	Nozzle - 1.0 mm KK	1
	PT347-1006X	281006, P0352-333-00010	L30486	Nozzle - 1.0 mm KK (10 pack)	10
	PT347-1030	281030, P0352-334-00012	L487	Nozzle - 1.2 mm KK	1
	PT347-1030X	281030, P0352-334-00012	L30487	Nozzle - 1.2 mm KK (10 pack)	10
	PT347-1031	281031, P0352-335-00015	L488	Nozzle - 1.5 mm KK	1
	PT347-1031X	281031, P0352-335-00015	L30488	Nozzle - 1.5 mm KK (10 pack)	10
	PT347-0898	280898, P0352-336-00018	L489	Nozzle - 1.8 mm KK	1
	PT347-0898X	280898, P0352-336-00018	L30489	Nozzle - 1.8 mm KK (10 pack)	10
	PT347-1020	P0352-336-00020	L490	Nozzle - 2.0 mm KK	1
	PT347-1020X	P0352-336-00020	L30490	Nozzle - 2.0 mm KK (10 pack)	10



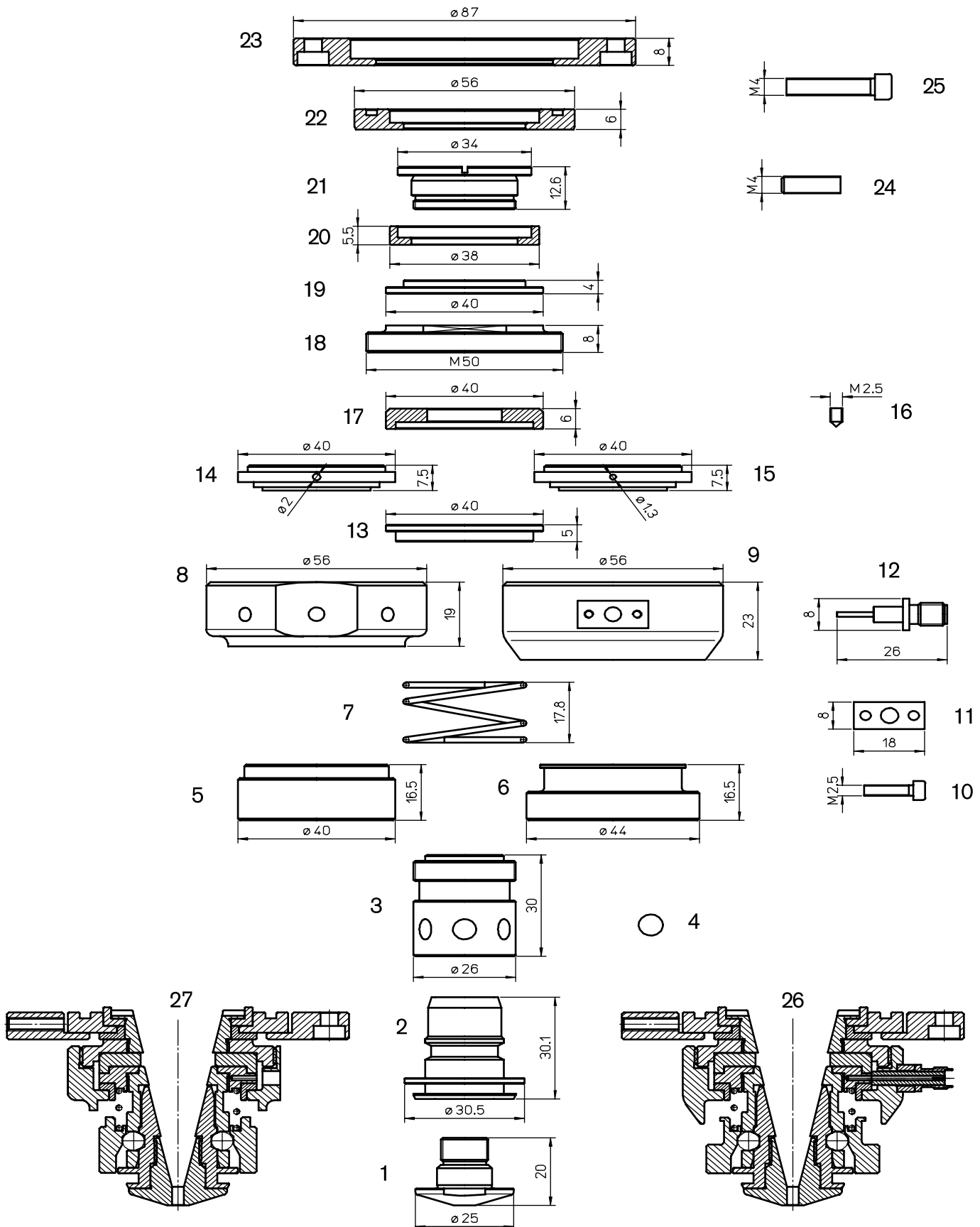
Consumables

	Centricut part number	Reference number	Alternate reference	Description	Pkg qty
1	MZ335-0004		L428	Nozzle – 1.0 mm	1
	MZ335-0011		L423	Nozzle – 1.2 mm	1
	MZ335-1950	46683301950	L429	Nozzle – 1.5 mm	1
	MZ335-1821	46683301821	L430	Nozzle – 2.0 mm	1
	MZ335-0112		L471	Nozzle – 2.2 mm	1
	MZ335-1960	46683301960	L431	Nozzle – 2.5 mm	1
	MZ335-1970	46683301970	L432	Nozzle – 3.0 mm	1
	MZ335-0006		L472	Nozzle – 3.5 mm	1
	MZ335-0013		L473	Nozzle – 4.0 mm	1
	MZ335-0014		L474	Nozzle – 4.5 mm	1
	MZ335-0004CP		L428X	Nozzle – 1.0 mm CP	1
	MZ335-0007CP		L423X	Nozzle – 1.2 mm CP	1
	MZ335-1950CP	46683301950	L429X	Nozzle – 1.5 mm CP	1
	MZ335-1821CP	46683301821	L430X	Nozzle – 2.0 mm CP	1
	MZ335-0012CP		L471X	Nozzle – 2.2 mm CP	1
	MZ335-1960CP	46683301960	L431X	Nozzle – 2.5 mm CP	1
	MZ335-1970CP	46683301970	L432X	Nozzle – 3.0 mm CP	1
	MZ335-0006CP		L472X	Nozzle – 3.5 mm CP	1
	MZ335-0013CP		L473X	Nozzle – 4.0 mm CP	1
	MZ335-0014CP		L474X	Nozzle – 4.5 mm CP	1
2	MZ360-0001	Centricut design	L850	Nozzle – 1.0 mm double	1
	MZ360-0002	Centricut design	L851	Nozzle – 1.2 mm double	1
	MZ360-0003	Centricut design	L852	Nozzle – 1.5 mm double	1
	MZ360-0004	Centricut design	L858	Nozzle – 1.8 mm double	1
	MZ360-0005	Centricut design	L853	Nozzle – 2.0 mm double	1
	MZ360-0006	Centricut design	L849	Nozzle – 2.2 mm double	1
	MZ360-0007	Centricut design	L854	Nozzle – 2.5 mm double	1
	MZ360-0008	Centricut design	L855	Nozzle – 3.0 mm double	1
	MZ360-0009	Centricut design	L856	Nozzle – 3.5 mm double	1
	MZ360-0001CP	Centricut design	L850X	Nozzle – 1.0 mm double CP	1
	MZ360-0002CP	Centricut design	L851X	Nozzle – 1.2 mm double CP	1
	MZ360-0003CP	46683302420	L852X	Nozzle – 1.5 mm double CP	1
	MZ360-0004CP	Centricut design	L858X	Nozzle – 1.8 mm double CP	1
	MZ360-0005CP	46683302430	L853X	Nozzle – 2.0 mm double CP	1
	MZ360-0006CP	Centricut design	L849X	Nozzle – 2.2 mm double CP	1
	MZ360-0007CP	46683302440	L854X	Nozzle – 2.5 mm double CP	1
	MZ360-0008CP	46683302450	L855X	Nozzle – 3.0 mm double CP	1
	MZ360-0009CP	Centricut design	L856X	Nozzle – 3.5 mm double CP	1



Consumables

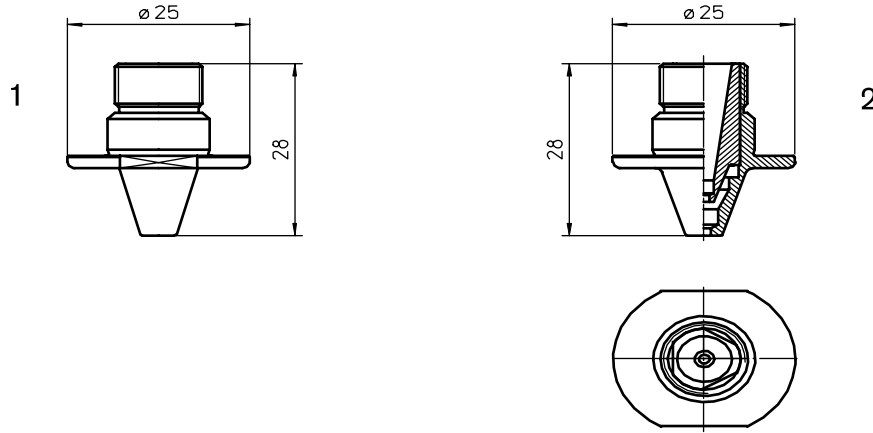
	Centricut part number	Reference number	Alternate reference	Description	Pkg qty
1	MZ368-0018CP		L949X	Nozzle - 0.8 mm CP	1
	MZ368-4430CP		L941X	Nozzle - 1.0 mm CP	1
	MZ368-4470CP	46143304470	L942X	Nozzle - 1.2 mm CP	1
	MZ368-4450CP	46143304450	L943X	Nozzle - 1.5 mm CP	1
	MZ368-4455CP		L950X	Nozzle - 1.8 mm CP	1
	MZ368-4460CP	46143304460	L944X	Nozzle - 2.0 mm CP	1
	MZ368-4480CP	46143304480	L945X	Nozzle - 2.5 mm CP	1
	MZ368-4490CP	46143304490	L946X	Nozzle - 3.0 mm CP	1
	MZ368-4500CP	46143304500	L947X	Nozzle - 3.5 mm CP	1
	MZ368-4510CP	46143304510	L948X	Nozzle - 4.0 mm CP	1
2	MZ373-0001		L952X	Nozzle - 1.2 mm double CP	1
	MZ368-0005CP		L953X	Nozzle - 1.5 mm double CP	1
	MZ373-0003		L954X	Nozzle - 2.0 mm double CP	1
	MZ373-0004		L955X	Nozzle - 2.5 mm double CP	1
	MZ373-0005		L956X	Nozzle - 3.0 mm double CP	1
	MZ373-0006		L957X	Nozzle - 3.5 mm double CP	1
	MZ373-0007		L958X	Nozzle - 4.0 mm double CP	1
3	MZ427-0001		L1264	Nozzle - 1.0 mm	1
	MZ427-0002		L1265	Nozzle - 1.2 mm	1
	MZ427-0003		L1266	Nozzle - 1.5 mm	1
	MZ427-0004		L1267	Nozzle - 2.0 mm	1
	MZ427-0005		L1268	Nozzle - 3.0 mm	1



Consumables

	Centricut part number	Reference number	Alternate reference	Description	Pkg qty
1	Please refer to the Mazak® nozzle section				
2	MZ368-0001	36143304420	AL242	Nozzle holder Hyper Gear	1
3	MZ413-4400	36143304400	AL291	Coupler	1
4	MZ413-0230	46143300230	AL311	Replacement ball kit (6 pcs)	1
5	MZ413-4430	46143304430	AL292	Spring retainer	1
6	MZ413-8000	46143308000	AL314	Spring retainer – steel	1
7	MZ413-0220	46143300220	AL289	Spring	1
8	MZ413-3242	36143303242	AL293	Body	1
9	MZ413-7980	36143307980	AL313	Aluminium body	1
10	MZ413-0030	46603300030	AL317	Screw	1
11	MZ413-8170	46143308170	AL318	Spacer	1
12	MZ413-8190	46143308190	AL315	Connector	1
13	MZ408-0240	46143300240	AL284	Insulator – ceramic	1
	MZ413-0240	46143300240	AL384	Insulator – PTFE*	1
14	MZ413-4250	46143304250	AL287	Retainer nut	1
15	MZ413-7420	46143307420	AL295	Retainer nut	1
16	MZ413-1180	46683301180	AL322	Screw	1
17	MZ408-4440	46143304440	AL290	Insulator – ceramic	1
	MZ413-4440	46143304440	AL390	Insulator – PTFE*	1
18	MZ413-0290	46143300290	AL294	Retainer nut	1
19	MZ408-0260	46143300260	AL285	Insulator – ceramic	1
	MZ413-0260	46143300260	AL385	Insulator – PTFE*	1
20	MZ408-0270	46143300270	AL286	Insulator – ceramic	1
	MZ413-0270	46143300270	AL386	Insulator – PTFE*	1
21	MZ413-0280	46143300280	AL288	Retainer nut	1
22	MZ413-0320	46143300320	AL316	Ring – brass	1
23	MZ413-0332	36143300332	AL320	Ring – aluminum	1
24	MZ413-0010		AL321	Screw (4 pcs)	1
25	MZ413-0200	A06CB040200	AL319	Set screw (4 pcs)	1
26	MZ413-0001		TMA50/C	Complete head (ceramic spacer)	1
27	MZ413-0002		TMA40/C	Complete head (ceramic spacer)	1

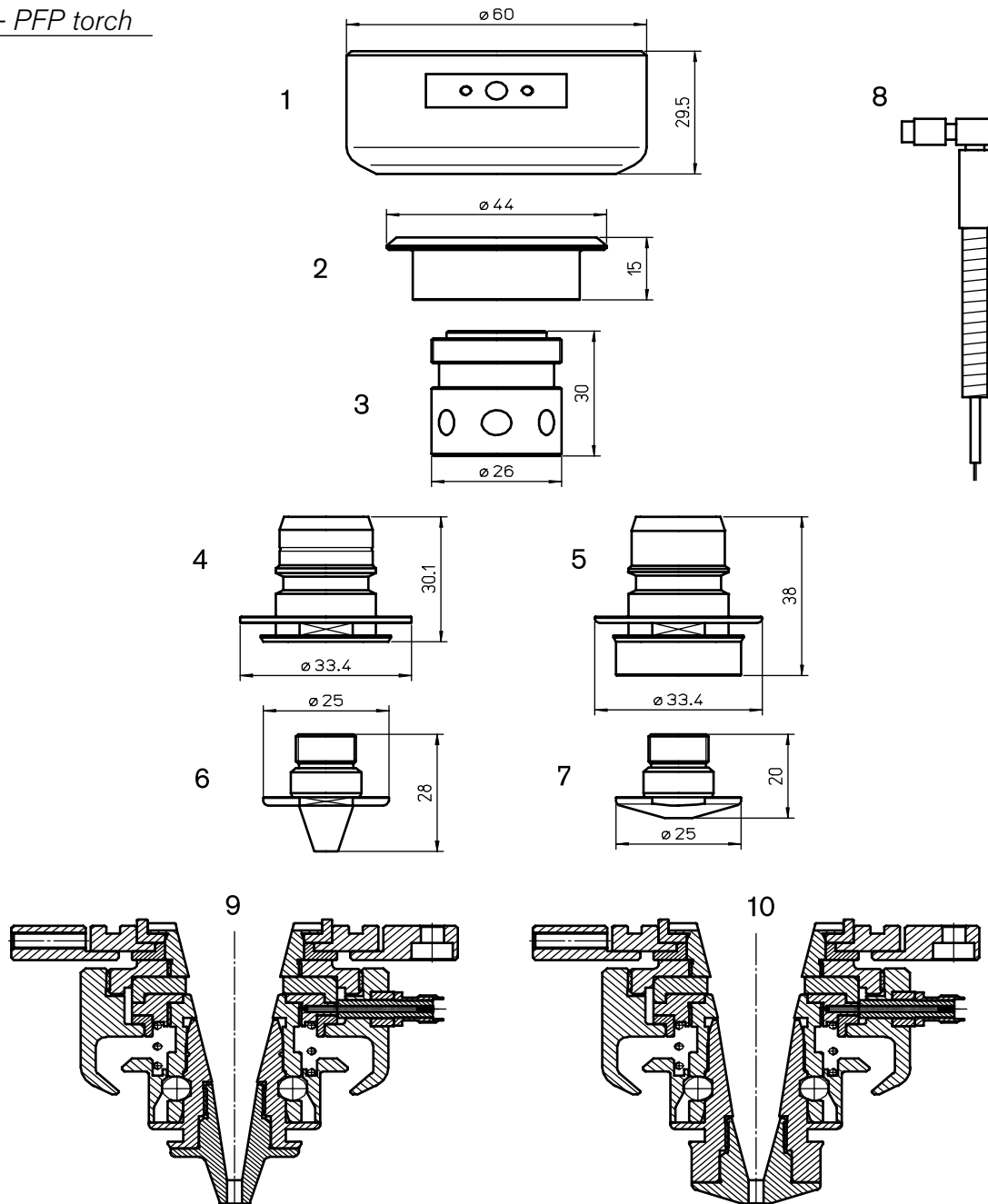
*PolyTetraFluoroEthylene is a fluorocarbon-based polymer and is commonly abbreviated PTFE. The Teflon® brand of PTFE is manufactured only by DuPont and is not sold by Centricut. Centricut purchases other brands of PTFE from various high quality manufacturers.



Consumables

	Centricut part number	Reference number	Alternate reference	Description	Pkg qty
1	MZ373-0308CP		L1379X	Nozzle – 0.8 mm slim CP	1
	MZ373-0310CP		L1380X	Nozzle – 1.0 mm slim CP	1
	MZ373-0341CP	46143310341	L1381X	Nozzle – 1.2 mm slim CP	1
	MZ373-0351CP	46143310351	L1382X	Nozzle – 1.5 mm slim CP	1
	MZ373-0318CP		L1389X	Nozzle – 1.8 mm slim CP	1
	MZ373-0361CP	46143310361	L1383X	Nozzle – 2.0 mm slim CP	1
	MZ373-0365CP		L1388X	Nozzle – 2.2 mm slim CP	1
	MZ373-0371CP	46143310371	L1384X	Nozzle – 2.5 mm slim CP	1
	MZ373-0381CP	46143310381	L1385X	Nozzle – 3.0 mm slim CP	1
	MZ373-0391CP	46143310391	L1386X	Nozzle – 3.5 mm slim CP	1
	MZ373-0401CP	46143310401	L1387X	Nozzle – 4.0 mm slim CP	1
2	MZ373-0300CP		L1390X	Nozzle – 0.8 mm slim double CP	1
	MZ373-0311CP		L1391X	Nozzle – 1.0 mm slim double CP	1
	MZ373-0312CP		L1399X	Nozzle – 1.2 mm slim double CP	1
	MZ373-0315CP	36143311500	L1392X	Nozzle – 1.5 mm slim double CP	1
	MZ373-0319CP		L1400X	Nozzle – 1.8 mm slim double CP	1
	MZ373-0320CP	36143311510	L1393X	Nozzle – 2.0 mm slim double CP	1
	MZ373-0322CP		L1398X	Nozzle – 2.2 mm slim double CP	1
	MZ373-0325CP	36143311520	L1394X	Nozzle – 2.5 mm slim double CP	1
	MZ373-0330CP	36143311530	L1395X	Nozzle – 3.0 mm slim double CP	1
	MZ373-0335CP		L1396X	Nozzle – 3.5 mm slim double CP	1

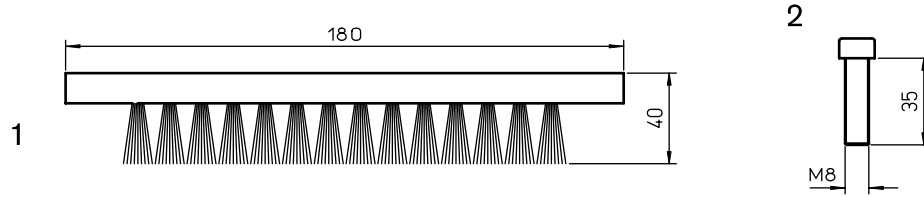
HyperGear – PFP torch



Consumables

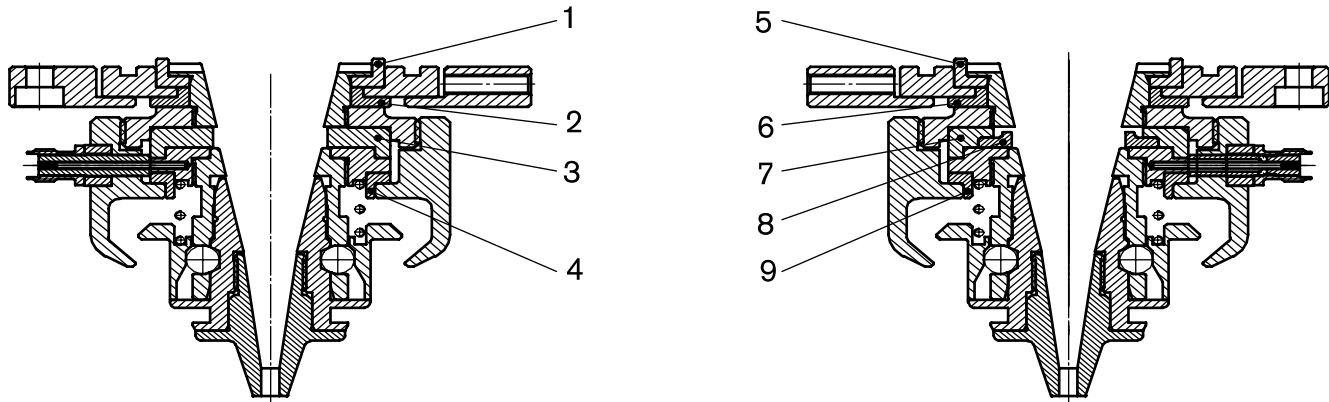
	Centricut part number	Reference number	Alternate reference	Description	Pkg qty
1	MZ368-0550	36143310550	AL365	Aluminum body	1
2	MZ368-0541	36143310541	AL366	Retainer spring – steel	1
3	MZ368-0530	36143310530	AL367	Coupler	1
4	MZ368-0522	36143310522	AL362	Nozzle holder large	1
5	MZ368-0740	36143310740	AL363	Nozzle holder long	1
6	Please refer to the Mazak® Slim nozzle section				
7	Please refer to the Mazak® nozzle section				
8	MZ335-8290	46143308290	AL368	Sensor cable – 75 mm	1
9	MZ368-0060	TMA60/C		Head w/ceramic spacer	1
10	MZ368-0070	TMA70/C		Head w/ceramic spacer	1

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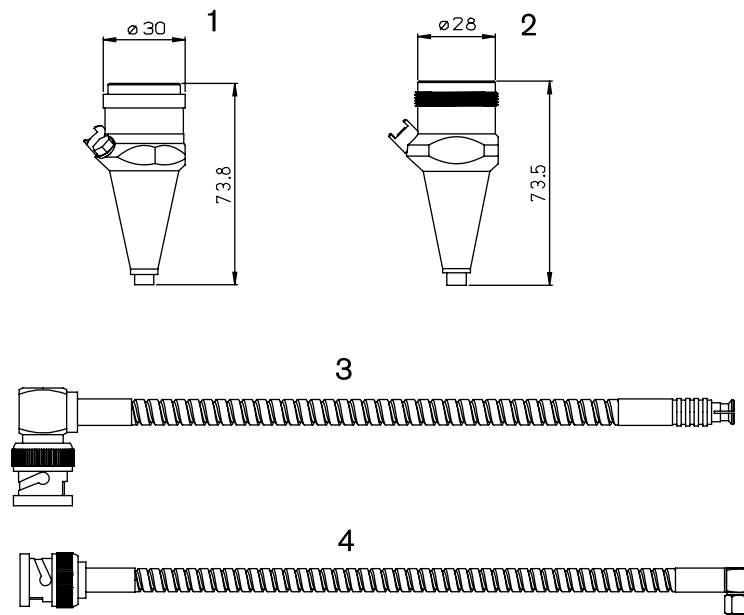
Accessories

	Centricut part number	Reference number	Alternate reference	Description	Pkg qty
1	MZ427-0006		AL301	Brush - w/screws 180x30x20	1
2	BY328-3884	333884	333884	Plastic screws (2 pcs)	2
	AM313-2023 (not shown)	71232023	71232023	Filter - vacuum pump	1



Consumables

	Centricut part number	Reference number	Alternate reference	Description	Pkg qty
1	MZ408-0270	46143300270	AL286	H.G. Insulator ceramic 38 x 5.5	1
	MZ413-0270	46143300270	AL386	H.G. Teflon insulator 38 x 5.5	1
2	MZ408-0260	46143300260	AL285	H.G. Ceramic insulator 40 x 4	1
	MZ413-0260	46143300260	AL385	H.G. Teflon insulator 40 x 4	1
3	MZ408-4440	46143304440	AL290	H.G. Insulator ceramic 40 x 6	1
	MZ413-4440	46143304440	AL390	Teflon insulator 40 x 6	1
4	MZ408-0240	46143300240	AL284	Ceramic insulator 40 x 5	1
	MZ413-0240	46143300240	AL384	H.G. Teflon insulator 40 x 5	1
5	MZ368-2100 NEW	46143312100	AL486	Insulating ring PPS 38 x 5.5	1
6	MZ368-2130 NEW	46143312130	AL485	Insulating ring PPS 40 x 4	1
7	MZ368-2080 NEW	46143312080	AL490	Spacer PPS 40 x 6	1
8	MZ368-2090 NEW	46143312090	AL487	Ceramic ring 30 x 3	1
9	MZ368-2120 NEW	46143312120	AL484	Insulating ring PPS 40 x 5	1



Consumables

	Centricut part number	Reference number	Alternate reference	Description	Pkg qty
1	PT999-HNZ	56743300500		Sensor repair HNZ	1
2	MZ999-HNPZ (HNP)	567123323A1		Sensor repair HNP	1
3	MZ335-1330A	46683301330		Sensor cable – armored 305 mm (12")	1
	MZ335-1980A	46683301980		Sensor cable – armored 280 mm (11")	1
4	MZ335-0111A	46743300111		Sensor cable – armored 280 mm (11")	1
	MZ335-0181A	46743300181		Sensor cable – armored 317.5 mm (12.5")	1
	MZ335-630A (not shown)			Sensor cable – armored 630 mm (25")	

Sensor repairs available in select regions only.

Optics

Centricut part number	Reference number	Type	Diameter	Focal length	Edge thickness
Lenses					
MZ315-0130	Z50MB000130	PLX	1.5"	5.0"	.118"
MZ315-0160	Z50MB000160	PLX	1.5"	5.0"	.236"
MZ315-0400	Z50MB000400	PLX	1.5"	5.0"	.300"
MZ315-2155 NEW	702155	PLX	1.5"	9.5"	.1575"
MZ315-5980	145980	PLX	2.0"	5.0"	.300"
MZ315-5160	Z50ZZ005160	PLX	2.0"	5.0"	.310"
MZ315-0516A	Z50ZZ005160A	PLX	2.0"	5.0"	.380"
MZ315-0520A	Z50ZZ00520A	PLX	2.0"	7.5"	.380"
MZ315-0480 NEW	Z50ZZ010480	PLX	2.0"	12M	.236"
MZ315-8148	938148	PLX	2.5"	7.5"	.380"
Ultra low absorption lenses					
MZ315-0160MP5	Z50MB000160	PLX	1.5"	5.0"	.236"
MZ315-0400MP5	Z50MB000400	PLX	1.5"	5.0"	.300"
MZ315-0520AMP5	Z50ZZ00520A	PLX	2.0"	7.5"	.380"

Centricut part number	Reference number	Material	Diameter	Edge thickness	S1
Phase shift mirrors					
MZ315-0040	Z50MB000040	CU	1.5"	.250"	
MZ315-0686	390686	CU	1.5"	.250"	
MZ315-0860	Z50ZZ010860	CU	2.0"	.375"	
MZ315-7694 NEW	467694	CU	2.0"	.378"	90 degree
Absorbing thin film reflectors (ATFR)					
MZ315-8360	Z50ZZ008360	ATFR	CU	2.0"	.375"

Centricut part number	Reference number	Type	Material	Diameter	Edge thickness	S1/Reflectivity
Zero phase shift mirrors and total reflectors						
MZ315-0017	Z50MB000030	TRZ	CU	1.575"	.295"	45 degree
MZ315-3055	593055	TRZ	CU	2.36"	.374"	
MZ315-0602	355377	TRZ	CU	2.36"	.394"	
MZ315-0060	Z50MB000060	TRZ	CU	2.36"	.394"	
MZ315-8401	4L104184-01	TRZ	SI	1.75"	.375"	
MZ315-8690	Z50MB0008690	TRZ	SI	1.75"	.375"	
MZ315-8825	408825	MMR	SI	2.0"	.200"	
MZ315-0070	Z50MB000070	ZPS	CU	2.0"	.394"	

Centricut part number	Reference number	Material	Diameter	Edge thickness	S1/Reflectivity	S2
Output couplers						
MZ315-8570	Z50MB008670	ZNSE	1.1"	.220"	10MCC-60%	7.5MCX
MZ315-8510	Z50MB008510	ZNSE	1.1"	.220"	15MCC-65%	
MZ315-0560 NEW	911682, Z50MBB010560	ZNSE	1.1"	.220"	20MCC-75%	15MCX
MZ315-0014	BRAL0014	ZNSE	1.1"	.220"	20MCC-40%	15MCX
MZ315-6662	796662	ZNSE	1.1"	.220"	20MCC-50%	15MCX
MZ315-0008	BRAL0008	ZNSE	1.1"	.220"	20MCC-50%	
MZ315-5420	Z50MB005420	ZNSE	1.1"	.220"	20MCC-50%	15MCX
MZ315-0007	BRAL0007	ZNSE	1.1"	.220"	20MCC-70%	20MCX

Centricut part number	Reference number	Material	Diameter	Edge thickness	S1/Reflectivity	
Beam splitters						
MZ315-1727 NEW	931727	ZNSE	1.5"	.120"	50%I-POL	
MZ315-1053 NEW	381053	ZNSE	1.5"	.120"	50%P-POL	
MZ315-7751 NEW	617751	ZNSE	1.5"	.120"	50%S-POL	

Centricut part number	Reference number	Material	Diameter	Focal length	Edge thickness	S2
Collimating optics						
MZ315-8393	448393	ZNSE	1.5"	15.0M	.157"	
MZ315-5433	945433	ZNSE	1.5"	590.55"	.119"	

Centricut part number	Reference number	Material	Diameter	Edge thickness	S1/Reflectivity	S2
Rear mirrors						
MZ315-8100	328100	GE	1.1"	.220"	10MCC	6MCX
MZ315-8500		GE	1.1"	.220"	15MCC-99.5%	
MZ315-0002	BRAL0002	GE	1.1"	.220"	20MCC-99.5%	
MZ315-1407	61407, 326453	GE	1.1"	.220"	20MCC-99.5%	
MZ315-0580	Z50MB010580	GE	1.1"	.220"	99.6%	

Optics care

Centricut part number	Reference number	Description	Pkg qty
TR300-6452	N/A	Lens cleaning paper, Tiffen – 50 piece	1
AM313-SC50 NEW	SC50	Lens cleaning paper, Tresor – 50 piece	1
TR300-1115		Lens cleaning pre-cut cotton – 80 piece	1
TR300-SC20		Cotton swab – 20 piece	1
TR300-1010	AL1010	Dropper, lens cleaning fluid	1
TR300-255	AL255	Loupe, magnifying	1
TR300-271	AL271	Base, lens maintenance	1
TR300-7388	787388	Mirror polish (250 ml)	1
AM313-1260 NEW	351260-009	Lens Polarizing Filter – 1.5"	1
AM313-1280 NEW	351280-009	Lens Polarizing Filter – 2.0"	1



Centricut also manufactures consumables for most major mechanized plasma systems including ESAB, Kaliburn and Kjellberg



To learn more about Centricut's line of plasma consumables, visit: www.hypertherm.com/centricut

Centricut products deliver performance superior to the OEM, along with Hypertherm quality at a competitive price.

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PLASMA | LASER | WATER JET | AUTOMATION | SOFTWARE | CONSUMABLES



Providing options for sensor cone needs



Purchase new or refurbish your old sensor cone – either way, will save money and give the same quality as the OEM offering

NEW sensor cones

- For Amada, Mazak (Precitec), and Mitsubishi (Precitec) CO₂ laser cutting heads
- Delivering the same OEM performance at a value price
- Engineered and manufactured to Hypertherm's high quality standards

Sensor cone repair*

- For most major OEMs including Precitec, Trumpf, Amada, Mazak, Mitsubishi and Finn-Power laser systems at a fraction of the cost of new
- Fitted with new internal components and restored to factory specifications
- Backed by Centricut's limited one year warranty and 100% satisfaction guarantee

*Sensor cone repairs are not available in all regions

New sensor cones

Centricut part number	OEM	Reference number	Description
AM343-9107	Amada	ECO cone	Sensor cone – ECO
AM343-1690	Amada	71341690	Sensor cone – HS98
PT347-3323	Mazak	567123323A	Nozzle body HNPZ
PT347-0011	Mitsubishi	P0354-110-00002	Sensor cone HN2
PT347-8001	Precitec	280010	Sensor cone 2.5Z/J
PT347-0522	Precitec	P0599-520-00002	Sensor cone LRC

Refurbished sensor cones

Centricut part number	OEM	Reference number	Description
AM999-HS95	Amada	71341621	Sensor repair HS95 (86 mm x 69 mm)
AM999-HS95M	Amada	71360091	Sensor repair HS95 mini (70 mm x 69 mm)
AM999-ECO	Amada	71399107	Sensor repair ECO
AM999-HS98	Amada	71341690	Sensor repair HS98
AM999-L3015C	Amada	71374509	Sensor repair L3015C
AM999-HPX	Amada		Sensor repair HPX
AM999-HPL	Amada	74810277	Sensor repair HP-L (red)
AM999-WACS	Amada	71502035	Sensor repair HP-X WACS
MZ999-HNPZ (HNP)	Mazak	567123323A1	Sensor repair HNP
PT999-HN2	Mazak	56743300500	Sensor repair HN2
MB999-429A	Mitsubishi	W429A	Sensor repair W429A
PT999-25ZJ	Mitsubishi	P0361-203-00001	Sensor repair 25ZJ
MB999-239	Mitsubishi	W239	Sensor repair W239
MB999-SE	Mitsubishi	P0594-820-00001	Sensor repair SE
PT999-DXN	Precitec	P0589-800-00001	Sensor repair DXN
PT999-YH27	Precitec	P0589-800-00001	Sensor repair YH27
PT999-YR30	Precitec	YR-30	Sensor repair YR-30
PT999-DZ	Precitec	281145	Sensor repair DZ
PT999-KN	Precitec	280549	Sensor repair KN
PT420-0125	Precitec		Sensor repair 25ZJ
PT999-HP2	Precitec	281672	Sensor repair HP/HP2Z

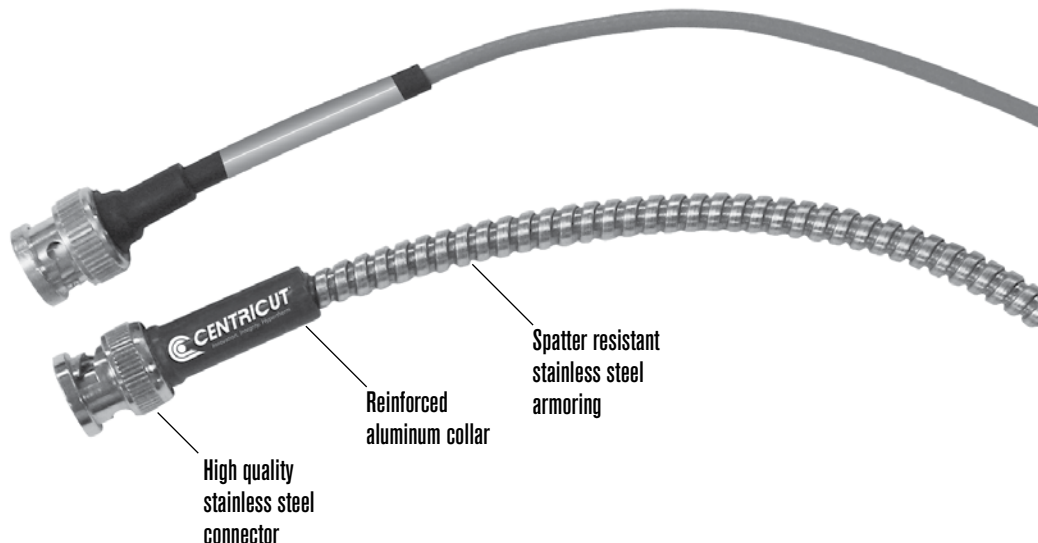
* Not available in all regions. Sensor cone repair is available for most sensor cones. Only a representation is listed above. For more information contact us at CTLaser@hypertherm.com

Armored sensor cables

Centricut armored sensor cables

Get the rugged toughness you need with Centricut armored sensor cables. Weaker designed cables require frequent changes, downtime and loss of production.

- Robust design
- Reinforced collar for longer life
- Extreme temperature rating (900°–1200° F)
- Guaranteed to outlast standard OEM cables



Armored sensor cables

Centricut part number	OEM	Reference number	Description
AM308-8965A	Amada	71398965	Sensor cable - armored 305 mm (premium)
AM313-1901A	Amada	71341630	Sensor cable - HS-5 305 mm (premium)
AM313-9851A	Amada	71369851	Sensor cable - armored 203 mm (premium)
CN306-0654A	Cincinnati	909654, 922686	Sensor cable - armored 114 mm (4.5")
CN306-0951A	Cincinnati	842951	Sensor cable - armored 140 mm (5.5")
MZ335-630A	Mazak		Sensor cable - armored 630 mm (25")
MZ335-1980A	Mazak	46683301980	Sensor cable - armored 280 mm (11")
MZ335-0111A	Mazak	4674330111	Sensor cable - armored 280 mm (11")
MZ335-1980	Mazak	46683301980	Sensor cable - armored 280 mm (11")
MZ335-0181A	Mazak	46743300181	Sensor cable - armored 317.5 mm (12.5")
MZ335-1330A	Mazak	46683301330	Sensor cable - armored 305 mm (12")
NT426-8677	NTC	4R028677-001	Sensor cable - armored 508 mm (20")
PT347-0101A	Precitec	P0360-100-00500	Sensor cable - armored 500 mm (20")
PT347-0181	Precitec	46743300181	Sensor cable 305 mm - armored (12")
PT347-1386	Precitec	281386, P0360-155-00500	Sensor cable - armored
TR301-7833	Trumpf	0227833	Sensor cable - armored 432 mm (17")
TR301-9983	Trumpf	359983, 342474	Sensor cable - armored 190 mm (7.5")
TR301-0930	Trumpf	280930	Sensor cable - armored 152 mm (6")
PT347-0250	Trumpf	342475	Sensor cable - armored 250 mm (9.85")

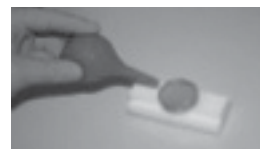
Lens cleaning tips

You will need:

- Scientific-grade acetone
- Air bulb
- Lens tissue
- Plastic lens holder
- Cotton swabs
- Eye dropper
- Rubber gloves

Step #1

Using rubber gloves, place lens in lens holder. Use air bulb to remove all loose contaminants from the optic. If the contaminants are still visible please proceed to step #2.



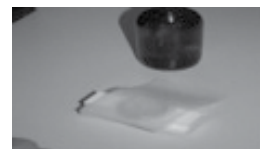
Step #2

Place a new piece of lens tissue over the optic, completely covering the optic



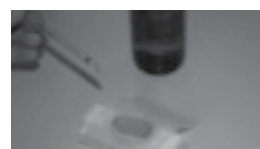
Step #3

Fill eye dropper 1/2 full with acetone.



Step #4

Drip acetone on the center of the optic until it is saturated to the outside diameter.



Step #5

Pull the lens tissue slowly across the optic. Going too fast will leave acetone residue behind. Acetone will evaporate when the tissue is dragged across the lens at the correct speed.



Step #6

If top side of lens is contaminated, repeat steps 1–5.



Step #7

Place clean optic in the machine quickly to avoid getting airborne particles on the clean optic.

If spots, pits, or scratches are still noticeable, the optic may need to be replaced

CO₂ laser optics

Optics key

Lens	
PFL	Pre-focus
MEN	Meniscus
PLX	Plano-convex
MTD	Mounted
Not MTD	Not mounted
LA	Low absorption
PO	Plano
ULA	Ultra low absorption

Mirrors	
CU	Copper
GAAS	Gallium arsenide
SI	Silicon
GE	Germanium
ZNSE	Zinc-selenide
PS	Phase shift
MMR	Maximum metal reflector
ATFR	Absorbing thin film reflector
TRZ	Total reflector – zero phase shift
ZPS	Zero phase shift
OC	Output coupler
RM	Rear mirror
COL-I	Collimator input
COL-O	Collimator output
AO	Adaptive optic
MO	Molybdenum
UC	Uncoated
MCX	Convex
MCC	Concave

Measurements	
DIA	Diameter
FL	Focal length
ET	Edge thickness

How to handle optics

Follow these easy steps, when cleaning or changing your optic, to help maximize the life and performance of your lens

- Avoid touching coated surfaces of the lens and hold the optic by its sides
- Wear powder-free finger cots or latex gloves when handling
- Do not use any tools or sharp objects when handling the optic or when removing it from its packaging
- Ensure the work surface is clean and free of oils, grease and dirt
- Do not place the optic on hard surfaces as they scratch easily
- Once the optic has been unpacked, carefully place it on the lens tissue in which it was originally wrapped

Optics disposal

It is important to dispose of used laser optics at a licensed industrial waste facility which is in compliance with all local, state, and federal regulations. If you don't have access to a licensed industrial waste facility, and purchased your laser optics through Centricut, you may return them to Centricut for proper disposal. This service is only available to Centricut customers.

All optics returned to Centricut must:

- Include return authorization and invoice numbers
- Be sealed in a plastic bag to minimize any hazards
- Remove excess ZnSe powder prior to sealing

*Acceptance of goods will be refused if not packaged correctly or if the return authorization number isn't included



Technical support

Our technical service team can answer questions about any laser cutting system. Whether it's a question about a part, a system, or for guidance on how to optimize performance, our experts can help.

- We stand behind our products with industry-leading technical expertise
- OEM trained technicians on staff with over 25 years experience
- Free application support for all laser OEMs



Contact us at: CTlaser@hypertherm.com

Broadest product line in the industry

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For more information on Centricut laser products,
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