



2013–2014 CO₂ laser consumables

Bystronic®



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

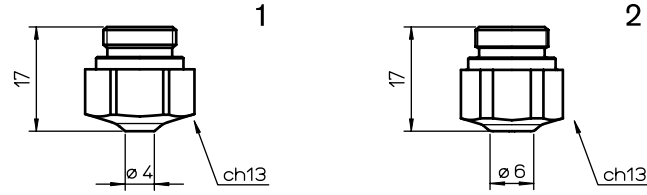
Hard chrome plated nozzles are our premium nozzles offering the highest level of durability and longest nozzle life. These nozzles are not as shiny as chrome plated and have a dull appearance.

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.

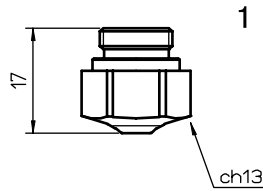




Consumables

	Centricut part number	Reference number	Alternate reference	Description	Pkg qty
1	BY310-4277	3-04277, HK08	L674	Nozzle – 0.8 mm HD	1
	BY310-4277X	3-04277, HK08	L30674	Nozzle – 0.8 mm HD (10 pack)	10
	BY310-1910	3-01910, HK10	L72	Nozzle – 1.0 mm HD	1
	BY310-1910X	3-01910, HK10	L3072	Nozzle – 1.0 mm HD (10 pack)	10
	BY310-1911	3-01911, HK12	L121	Nozzle – 1.25 mm HD	1
	BY310-1911X	3-01911, HK12	L30121	Nozzle – 1.25 mm HD (10 pack)	10
	BY310-1912	3-01912, HK15	L73	Nozzle – 1.5 mm HD	1
	BY310-1912X	3-01912, HK15	L3073	Nozzle – 1.5 mm HD (10 pack)	10
	BY310-1913	3-01913, HK17	L122	Nozzle – 1.75 mm HD	1
	BY310-1913X	3-01913, HK17	L30122	Nozzle – 1.75 mm HD (10 pack)	10
	BY310-1910CP	3-01910, HK10	L72X	Nozzle – 1.0 mm HD CP	1
	BY310-1910CPX	3-01910, HK10	L3072X	Nozzle – 1.0 mm HD CP (10 pack)	10
	BY310-1911CP	3-01911, HK12	L121X	Nozzle – 1.25 mm HD CP	1
	BY310-1911CPX	3-01911, HK12	L30121X	Nozzle – 1.25 mm HD CP (10 pack)	10
	BY310-1912CP	3-01912, HK15	L73X	Nozzle – 1.5 mm HD CP	1
	BY310-1912CPX	3-01912, HK15	L3073X	Nozzle – 1.5 mm HD CP (10 pack)	10
	BY310-1913CP	3-01913, HK17	L122X	Nozzle – 1.75 mm HD CP	1
	BY310-1913CPX	3-01913, HK17	L30122X	Nozzle – 1.75 mm HD CP (10 pack)	10
2	BY310-1914	3-01914, HK20	L123	Nozzle – 2.0 mm HD	1
	BY310-1914X	3-01914, HK20	L30123	Nozzle – 2.0 mm HD (10 pack)	10
	BY310-1915	3-03854, HK25	L140	Nozzle – 2.5 mm HD	1
	BY310-1915X	3-03854, HK25	L30140	Nozzle – 2.5 mm HD (10 pack)	10
	BY310-6112	3-06112, HK30	L265	Nozzle – 3.0 mm HD	1
	BY310-6112X	3-06112, HK30	L30265	Nozzle – 3.0 mm HD (10 pack)	10
	BY310-0035	HK35	L700	Nozzle – 3.5 mm HD	1
	BY310-0035X	HK35	L30700	Nozzle – 3.5 mm HD (10 pack)	10
	BY310-0040	HK40	L701	Nozzle – 4.0 mm HD	1
	BY310-0040X	HK40	L30701	Nozzle – 4.0 mm HD (10 pack)	10
	BY310-1914CP	3-01914, HK20	L123X	Nozzle – 2.0 mm HD CP	1
	BY310-1914CPX	3-01914, HK20	L30123X	Nozzle – 2.0 mm HD CP (10 pack)	10
	BY310-1915CP	3-03854, HK25	L140X	Nozzle – 2.5 mm HD CP	1
	BY310-1915CPX	3-03854, HK25	L30140X	Nozzle – 2.5 mm HD CP (10 pack)	10
	BY310-6112CP	3-06112, HK30	L265X	Nozzle – 3.0 mm HD CP	1
	BY310-6112CPX	3-06112, HK30	L30265X	Nozzle – 3.0 mm HD CP (10 pack)	10
	BY310-0035CP	HK35	L700X	Nozzle – 3.5 mm HD CP	1
	BY310-0035CPX	HK35	L30700X	Nozzle – 3.5 mm HD CP (10 pack)	10
	BY310-0040CP	HK40	L701X	Nozzle – 4.0 mm HD CP	1
	BY310-0040CPX	HK40	L30701X	Nozzle – 4.0 mm HD CP (10 pack)	10

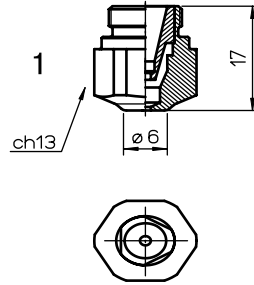
Note: Reference number indicates nozzle style and orifice diameter(s)



Consumables

	Centricut part number	Reference number	Alternate reference	Description	Pkg qty
1	BY310-4273	3-04273, K08	L83	Nozzle - 0.8 mm	1
	BY310-4273X	3-04273, K08	L3083	Nozzle - 0.8 mm (10 pack)	10
	BY310-1905	3-01905, K10	L116	Nozzle - 1.0 mm	1
	BY310-1905X	3-01905, K10	L30116	Nozzle - 1.0 mm (10 pack)	10
	BY310-1906	3-01906, K12	L117	Nozzle - 1.25 mm	1
	BY310-1906X	3-01906, K12	L30117	Nozzle - 1.25 mm (10 pack)	10
	BY310-1907	3-01907, K15	L118	Nozzle - 1.5 mm	1
	BY310-1907X	3-01907, K15	L30118	Nozzle - 1.5 mm (10 pack)	10
	BY310-1908	3-01908, K17	L119	Nozzle - 1.75 mm	1
	BY310-1908X	3-01908, K17	L30119	Nozzle - 1.75 mm (10 pack)	10
	BY310-1909	3-01909, K20	L120	Nozzle - 2.0 mm	1
	BY310-1909X	3-01909, K20	L30120	Nozzle - 2.0 mm (10 pack)	10
	BY310-4274	3-04274, K25	L675	Nozzle - 2.5 mm	1
	BY310-4274X	3-04274, K25	L30675	Nozzle - 2.5 mm (10 pack)	10
	BY310-4275	3-04275, K30	L678	Nozzle - 3.0 mm	1
	BY310-4275X	3-04275, K30	L30678	Nozzle - 3.0 mm (10 pack)	10
	BY310-4273CP	3-04273, K08	L83X	Nozzle - 0.8 mm CP	1
	BY310-4273CPX	3-04273, K08	L3083X	Nozzle - 0.8 mm CP (10 pack)	10
	BY310-1905CP	3-01905, K10	L116X	Nozzle - 1.0 mm CP	1
	BY310-1905CPX	3-01905, K10	L30116X	Nozzle - 1.0 mm CP (10 pack)	10
	BY310-1906CP	3-01906, K12	L117X	Nozzle - 1.25 mm CP	1
	BY310-1906CPX	3-01906, K12	L30117X	Nozzle - 1.25 mm CP (10 pack)	10
	BY310-1907CP	3-01907, K15	L118X	Nozzle - 1.5 mm CP	1
	BY310-1907CPX	3-01907, K15	L30118X	Nozzle - 1.5 mm CP (10 pack)	10
	BY310-1908CP	3-01908, K17	L119X	Nozzle - 1.75 mm CP	1
	BY310-1908CPX	3-01908, K17	L30119X	Nozzle - 1.75 mm CP (10 pack)	10
	BY310-1909CP	3-01909, K20	L120X	Nozzle - 2.0 mm CP	1
	BY310-1909CPX	3-01909, K20	L30120X	Nozzle - 2.0 mm CP (10 pack)	10
	BY310-4274CP	3-04274, K25	L675X	Nozzle - 2.5 mm CP	1
	BY310-4274CPX	3-04274, K25	L30675X	Nozzle - 2.5 mm CP (10 pack)	10
	BY310-2475CP	3-04275, K30	L678X	Nozzle - 3.0 mm CP	1
	BY310-2475CPX	3-04275, K30	L30678X	Nozzle - 3.0 mm CP (10 pack)	10

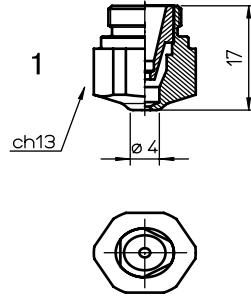
Note: Reference number indicates nozzle style and orifice diameter(s)



Consumables

	Centricut part number	Reference number	Alternate reference	Description	Pkg qty
1	BY310-6058	3-16058, NK10-15	L1363	Nozzle – 1.0 mm double	1
	BY310-6058X	3-16058, NK10-15	L301363	Nozzle – 1.0 mm double (10 pack)	10
	BY310-6059	3-16059, NK12-15	L1364	Nozzle – 1.25 mm double	1
	BY310-6059X	3-16059, NK12-15	L301364	Nozzle – 1.25 mm double (10 pack)	10
	BY310-6060	3-16060, NK15-15	L1365	Nozzle – 1.5 mm double	1
	BY310-6060X	3-16060, NK15-15	L301365	Nozzle – 1.5 mm double (10 pack)	10
	BY310-4317	3-14317, NK17-15	L1366	Nozzle – 1.75 mm double	1
	BY310-4317X	3-14317, NK17-15	L301366	Nozzle – 1.75 mm double (10 pack)	10
	BY310-0005	3-14318, NK20-15	L604	Nozzle – 2.0 mm double	1
	BY310-0005X	3-14318, NK20-15	L30604	Nozzle – 2.0 mm double (10 pack)	10
	BY310-0006	3-14319, NK25-15	L605	Nozzle – 2.5 mm double	1
	BY310-0006X	3-14319, NK25-15	L30605	Nozzle – 2.5 mm double (10 pack)	10
	BY310-6256	3-16256, NK25-20	L612	Nozzle – 2.5 mm double	1
	BY310-6256X	3-16256, NK25-20	L30612	Nozzle – 2.5 mm double (10 pack)	10
	BY310-6061	3-16061, NK30-17	L613	Nozzle – 3.0 mm double	1
	BY310-6061X	3-16061, NK30-17	L30613	Nozzle – 3.0 mm double (10 pack)	10
	BY310-0007	3-16257, NK30-20	L606	Nozzle – 3.0 mm double	1
	BY310-0007X	3-16257, NK30-20	L30606	Nozzle – 3.0 mm double (10 pack)	10
	BY310-3530	NK35-30	L607	Nozzle – 3.5 mm double	1
	BY310-3530X	NK35-30	L30607	Nozzle – 3.5 mm double (10 pack)	10
	BY310-6058CP	3-16058, NK10-15	L1363X	Nozzle – 1.0 mm double CP	1
	BY310-6058CPX	3-16058, NK10-15	L301363X	Nozzle – 1.0 mm double CP (10 pack)	10
	BY310-6059CP	3-16059, NK12-15	L1364X	Nozzle – 1.25 mm double CP	1
	BY310-6059CPX	3-16059, NK12-15	L301364X	Nozzle – 1.25 mm double CP (10 pack)	10
	BY310-6060CP	3-16060, NK15-15	L1365X	Nozzle – 1.5 mm double CP	1
	BY310-6060CPX	3-16060, NK15-15	L301365X	Nozzle – 1.5 mm double CP (10 pack)	10
	BY310-4317CP	3-14317, NK17-15	L1366X	Nozzle – 1.75 mm double CP	1
	BY310-4317CPX	3-14317, NK17-15	L301366X	Nozzle – 1.75 mm double CP (10 pack)	10
	BY310-0005CP	3-14318, NK20-15	L604X	Nozzle – 2.0 mm double CP	1
	BY310-0005CPX	3-14318, NK20-15	L30604X	Nozzle – 2.0 mm double CP (10 pack)	10
	BY310-0006CP	3-14319, NK25-15	L605X	Nozzle – 2.5 mm double CP	1
	BY310-0006CPX	3-14319, NK25-15	L30605X	Nozzle – 2.5 mm double CP (10 pack)	10
	BY310-6256CP	3-16256, NK25-20	L612X	Nozzle – 2.5 mm double CP	1
	BY310-6256CPX	3-16256, NK25-20	L30612X	Nozzle – 2.5 mm double CP (10 pack)	10
	BY310-6061CP	3-16061, NK30-17	L613X	Nozzle – 3.0 mm double CP	1
	BY310-6061CPX	3-16061, NK30-17	L30613X	Nozzle – 3.0 mm double CP (10 pack)	10
	BY310-0007CP	3-16257, NK30-20	L606X	Nozzle – 3.0 mm double CP	1
	BY310-0007CPX	3-16257, NK30-20	L30606X	Nozzle – 3.0 mm double CP (10 pack)	10
	BY310-3530CP	NK35-30	L607X	Nozzle – 3.5 mm double CP	1
	BY310-3530CPX	NK35-30	L30607X	Nozzle – 3.5 mm double CP (10 pack)	10

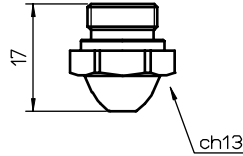
Note: Reference number indicates nozzle style and orifice diameter(s)



Consumables

	Centricut part number	Reference number	Alternate reference	Description	Pkg qty
1	BY310-0001	3-16058, NK10-15	L600	Nozzle - 1.0 mm double	1
	BY310-0001X	3-16058, NK10-15	L30600	Nozzle - 1.0 mm double (10 pack)	10
	BY310-0002	3-16059, NK12-15	L601	Nozzle - 1.25 mm double	1
	BY310-0002X	3-16059, NK12-15	L30601	Nozzle - 1.25 mm double (10 pack)	10
	BY310-0003	3-16060, NK15-15	L602	Nozzle - 1.5 mm double	1
	BY310-0003X	3-16060, NK15-15	L30602	Nozzle - 1.5 mm double (10 pack)	10
	BY310-0004	3-14317, NK17-15	L603	Nozzle - 1.75 mm double	1
	BY310-0004X	3-14317, NK17-15	L30603	Nozzle - 1.75 mm double (10 pack)	10
	BY310-0001CP	3-16058, NK10-15	L600X	Nozzle - 1.0 mm double CP	1
	BY310-0001CPX	3-16058, NK10-15	L30600X	Nozzle - 1.0 mm double CP (10 pack)	10
	BY310-0002CP	3-16059, NK12-15	L601X	Nozzle - 1.25 mm double CP	1
	BY310-0002CPX	3-16059, NK12-15	L30601X	Nozzle - 1.25 mm double CP (10 pack)	10
	BY310-0003CP	3-16060, NK15-15	L602X	Nozzle - 1.5 mm double CP	1
	BY310-0003CPX	3-16060, NK15-15	L30602X	Nozzle - 1.5 mm double CP (10 pack)	10
	BY310-0004CP	3-14317, NK17-15	L603X	Nozzle - 1.75 mm double CP	1
	BY310-0004CPX	3-14317, NK17-15	L30603X	Nozzle - 1.75 mm double CP (10 pack)	10

Note: Reference number indicates nozzle style and orifice diameter(s)

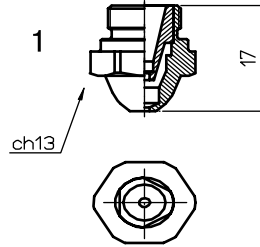


Byspeed

Consumables

	Centricut part number	Reference number	Alternate reference	Description	Pkg qty
1	BY319-4271	3-04271, 08	L82	Nozzle - 0.8 mm	1
	BY319-4271X	3-04271, 08	L3082	Nozzle - 0.8 mm (10 pack)	10
	BY319-1894	3-01894, 10	L98	Nozzle - 1.0 mm	1
	BY319-1894X	3-01894, 10	L3098	Nozzle - 1.0 mm (10 pack)	10
	BY319-1895	3-01895, 12	L99	Nozzle - 1.25 mm	1
	BY319-1895X	3-01895, 12	L3099	Nozzle - 1.25 mm (10 pack)	10
	BY319-1896	3-01896, 15	L100	Nozzle - 1.5 mm	1
	BY319-1896X	3-01896, 15	L30100	Nozzle - 1.5 mm (10 pack)	10
	BY319-0897	3-01897, 17	L101	Nozzle - 1.75 mm	1
	BY319-1897	3-01897, 17	L30101	Nozzle - 1.75 mm (10 pack)	10
	BY319-1898	3-01898, 20	L102	Nozzle - 2.0 mm	1
	BY319-1898X	3-01898, 20	L30102	Nozzle - 2.0 mm (10 pack)	10
	BY319-4272	3-04272, 25	L676	Nozzle - 2.5 mm	1
	BY319-4272X	3-04272, 25	L30676	Nozzle - 2.5 mm (10 pack)	10
	BY319-4275	3-04275, H08	L673	Nozzle - 0.8 mm HD	1
	BY319-4275X	3-04275, H08	L30673	Nozzle - 0.8 mm HD (10 pack)	10
	BY319-1899	3-01899, H10	L88	Nozzle - 1.0 mm HD	1
	BY319-1899X	3-01899, H10	L3088	Nozzle - 1.0 mm HD (10 pack)	10
	BY319-1900	3-01900, H12	L103	Nozzle - 1.25 mm HD	1
	BY319-1900X	3-01900, H12	L30103	Nozzle - 1.25 mm HD (10 pack)	10
	BY319-1901	3-01901, H15	L104	Nozzle - 1.5 mm HD	1
	BY319-1901X	3-01901, H15	L30104	Nozzle - 1.5 mm HD (10 pack)	10
	BY319-1902	3-01902, H17	L105	Nozzle - 1.75 mm HD	1
	BY319-1902X	3-01902, H17	L30105	Nozzle - 1.75 mm HD (10 pack)	10
	BY319-1903	3-01903, H20	L106	Nozzle - 2.0 mm HD	1
	BY319-1903X	3-01903, H20	L30106	Nozzle - 2.0 mm HD (10 pack)	10
	BY319-4276	3-04276, H25	L677	Nozzle - 2.5 mm HD	1
	BY319-4276X	3-04276, H25	L30677	Nozzle - 2.5 mm HD (10 pack)	10
	BY319-0030	H30	L679	Nozzle - 3.0 mm HD	1
	BY319-0030X	H30	L30679	Nozzle - 3.0 mm HD (10 pack)	10
	BY319-1899CP	3-01899, H10	L88X	Nozzle - 1.0 mm HD CP	1
	BY319-1899CPX	3-01899, H10	L3088X	Nozzle - 1.0 mm HD CP (10 pack)	10
	BY319-0900CP	3-01900, H12	L103X	Nozzle - 1.25 mm HD CP	1
	BY319-0900CPX	3-01900, H12	L30103X	Nozzle - 1.25 mm HD CP (10 pack)	10
	BY319-1901CP	3-01901, H15	L104X	Nozzle - 1.5 mm HD CP	1
	BY319-1901CPX	3-01901, H15	L30104X	Nozzle - 1.5 mm HD CP (10 pack)	10
	BY319-1902CP	3-01902, H17	L105X	Nozzle - 1.75 mm HD CP	1
	BY319-1902CPX	3-01902, H17	L30105X	Nozzle - 1.75 mm HD CP (10 pack)	10
	BY319-1903CP	3-01903, H20	L106X	Nozzle - 2.0 mm HD CP	1
	BY319-1903CPX	3-01903, H20	L30106X	Nozzle - 2.0 mm HD CP (10 pack)	10
	BY319-4276CP	3-04276, H25	L677X	Nozzle - 2.5 mm HD CP	1
	BY319-4276CPX	3-04276, H25	L30677X	Nozzle - 2.5 mm HD CP (10 pack)	10
	BY319-0030CP	H30	L679X	Nozzle - 3.0 mm HD CP	1
	BY319-0030CPX	H30	L30679X	Nozzle - 3.0 mm HD CP (10 pack)	10

Note: Reference number indicates nozzle style and orifice diameter(s)



Consumables

	Centricut part number	Reference number	Alternate reference	Description	Pkg qty
1	BY319-1015	N10-15	L1250	Nozzle - 1.0 mm double	1
	BY319-1015X	N10-15	L301250	Nozzle - 1.0 mm double (10 pack)	10
	BY319-1215	N12-15	L1251	Nozzle - 1.25 mm double	1
	BY319-1215X	N12-15	L301251	Nozzle - 1.25 mm double (10 pack)	10
	BY319-1515	N15-15	L1252	Nozzle - 1.5 mm double	1
	BY319-1515X	N15-15	L301252	Nozzle - 1.5 mm double (10 pack)	10
	BY319-1715	N17-15	L1253	Nozzle - 1.75 mm double	1
	BY319-1715X	N17-15	L301253	Nozzle - 1.75 mm double (10 pack)	10
	BY319-2015	N20-15	L1254	Nozzle - 2.0 mm double	1
	BY319-2015X	N20-15	L301254	Nozzle - 2.0 mm double (10 pack)	10
	BY319-2515	N25-15	L1255	Nozzle - 2.5 mm double	1
	BY319-2515X	N25-15	L301255	Nozzle - 2.5 mm double (10 pack)	10
	BY319-2520	N25-20	L1256	Nozzle - 2.5 mm double	1
	BY319-2520X	N25-20	L301256	Nozzle - 2.5 mm double (10 pack)	10
	BY319-3017	N30-17	L1257	Nozzle - 3.0 mm double	1
	BY319-3017X	N30-17	L301257	Nozzle - 3.0 mm double (10 pack)	10
	BY319-3020	N30-20	L1258	Nozzle - 3.0 mm double	1
	BY319-3020X	N30-20	L301258	Nozzle - 3.0 mm double (10 pack)	10
	BY319-1015CP	N10-15	L1250X	Nozzle - 1.0 mm double CP	1
	BY319-1015CPX	N10-15	L301250X	Nozzle - 1.0 mm double CP (10 pack)	10
	BY319-1215CP	N12-15	L1251X	Nozzle - 1.25 mm double CP	1
	BY319-1215CPX	N12-15	L301251X	Nozzle - 1.25 mm double CP (10 pack)	10
	BY319-1515CP	N15-15	L1252X	Nozzle - 1.5 mm double CP	1
	BY319-1515CPX	N15-15	L301252X	Nozzle - 1.5 mm double CP (10 pack)	10
	BY319-1715CP	N17-15	L1253X	Nozzle - 1.75 mm double CP	1
	BY319-1715CPX	N17-15	L301253X	Nozzle - 1.75 mm double CP (10 pack)	10
	BY319-2015CP	N20-15	L1254X	Nozzle - 2.0 mm double CP	1
	BY319-2015CPX	N20-15	L301254X	Nozzle - 2.0 mm double CP (10 pack)	10
	BY319-2515CP	N25-15	L1255X	Nozzle - 2.5 mm double CP	1
	BY319-2515CPX	N25-15	L301255X	Nozzle - 2.5 mm double CP (10 pack)	10
	BY319-2520CP	N25-20	L1256X	Nozzle - 2.5 mm double CP	1
	BY319-2520CPX	N25-20	L301256X	Nozzle - 2.5 mm double CP (10 pack)	10
	BY319-3017CP	N30-17	L1257X	Nozzle - 3.0 mm double CP	1
	BY319-3017CPX	N30-17	L301257X	Nozzle - 3.0 mm double CP (10 pack)	10
	BY319-3020CP	N30-20	L1258X	Nozzle - 3.0 mm double CP	1
	BY319-3020CPX	N30-20	L301258X	Nozzle - 3.0 mm double CP (10 pack)	10

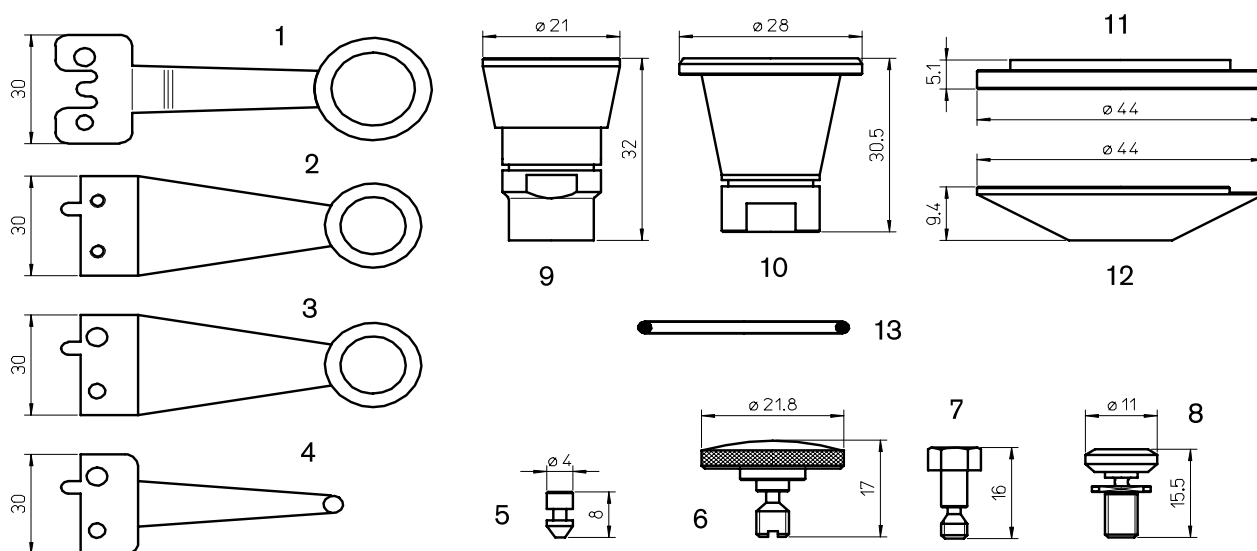
Note: Reference number indicates nozzle style and orifice diameter(s)



Consumables

	Centricut part number	Reference number	Alternate reference	Description	Pkg qty
1	BY318-4271	3-04271, 08	L22	Nozzle – 0.8 mm	1
	BY318-4271X	3-04271, 08	L3022	Nozzle – 0.8 mm (10 pack)	10
	BY318-1894	3-01894, 10	L14	Nozzle – 1.0 mm	1
	BY318-1894X	3-01894, 10	L3014	Nozzle – 1.0 mm (10 pack)	10
	BY318-1895	3-01895, 12	L41	Nozzle – 1.25 mm	1
	BY318-1895X	3-01895, 12	L3041	Nozzle – 1.25 mm (10 pack)	10
	BY318-1896	3-01896, 15	L17	Nozzle – 1.5 mm	1
	BY318-1896X	3-01896, 15	L3017	Nozzle – 1.5 mm (10 pack)	10
	BY318-1897	3-01897, 17	L42	Nozzle – 1.75 mm	1
	BY318-1897X	3-01897, 17	L3042	Nozzle – 1.75 mm (10 pack)	10
	BY318-1898	3-01898, 20	L33	Nozzle – 2.0 mm	1
	BY318-1898X	3-01898, 20	L3033	Nozzle – 2.0 mm (10 pack)	10
	BY318-1899	3-01899, H10	L43	Nozzle – 1.0 mm HD	1
	BY318-1899X	3-01899, H10	L3043	Nozzle – 1.0 mm HD (10 pack)	10
	BY318-1900	3-01900, H12	L16	Nozzle – 1.25 mm HD	1
	BY318-1900X	3-01900, H12	L3016	Nozzle – 1.25 mm HD (10 pack)	10
	BY318-1901	3-01901, H15	L44	Nozzle – 1.5 mm HD	1
	BY318-1901X	3-01901, H15	L3044	Nozzle – 1.5 mm HD (10 pack)	10
	BY318-1902	3-01902, H17	L45	Nozzle – 1.75 mm HD	1
	BY318-1902X	3-01902, H17	L3045	Nozzle – 1.75 mm HD (10 pack)	10
	BY318-1903	3-01903, H20	L46	Nozzle – 2.0 mm HD	1
	BY318-1903X	3-01903, H20	L3046	Nozzle – 2.0 mm HD (10 pack)	10
2	BY320-4273	3-04273, K08	L71	Nozzle – 0.8 mm	1
	BY320-4273X	3-04273, K08	L3071	Nozzle – 0.8 mm (10 pack)	10
	BY320-1905	3-01905, K10	L107	Nozzle – 1.0 mm	1
	BY320-1905X	3-01905, K10	L30107	Nozzle – 1.0 mm (10 pack)	10
	BY320-1906	3-01906, K12	L108	Nozzle – 1.25 mm	1
	BY320-1906X	3-01906, K12	L30108	Nozzle – 1.25 mm (10 pack)	10
	BY320-1907	3-01907, K15	L109	Nozzle – 1.5 mm	1
	BY320-1907X	3-01907, K15	L30109	Nozzle – 1.5 mm (10 pack)	10
	BY320-1908	3-01908, K17	L110	Nozzle – 1.75 mm	1
	BY320-1908X	3-01908, K17	L30110	Nozzle – 1.75 mm (10 pack)	10
	BY320-1909	3-01909, K20	L111	Nozzle – 2.0 mm	1
	BY320-1909X	3-01909, K20	L30111	Nozzle – 2.0 mm (10 pack)	10
	BY320-1910	3-01910, HK10	L89	Nozzle – 1.0 mm HD	1
	BY320-1910X	3-01910, HK10	L3089	Nozzle – 1.0 mm HD (10 pack)	10
	BY320-1911	3-01911, HK12	L112	Nozzle – 1.25 mm HD	1
	BY320-1911X	3-01911, HK12	L30112	Nozzle – 1.25 mm HD (10 pack)	10
	BY320-1912	3-01912, HK15	L113	Nozzle – 1.5 mm HD	1
	BY320-1912X	3-01912, HK15	L30113	Nozzle – 1.5 mm HD (10 pack)	10
	BY320-1913	3-01913, HK17	L114	Nozzle – 1.75 mm HD	1
	BY320-1913X	3-01913, HK17	L30114	Nozzle – 1.75 mm HD (10 pack)	10
	BY320-1914	3-01914, HK20	L115	Nozzle – 2.0 mm HD	1
	BY320-1914X	3-01914, HK20	L30115	Nozzle – 2.0 mm HD (10 pack)	10

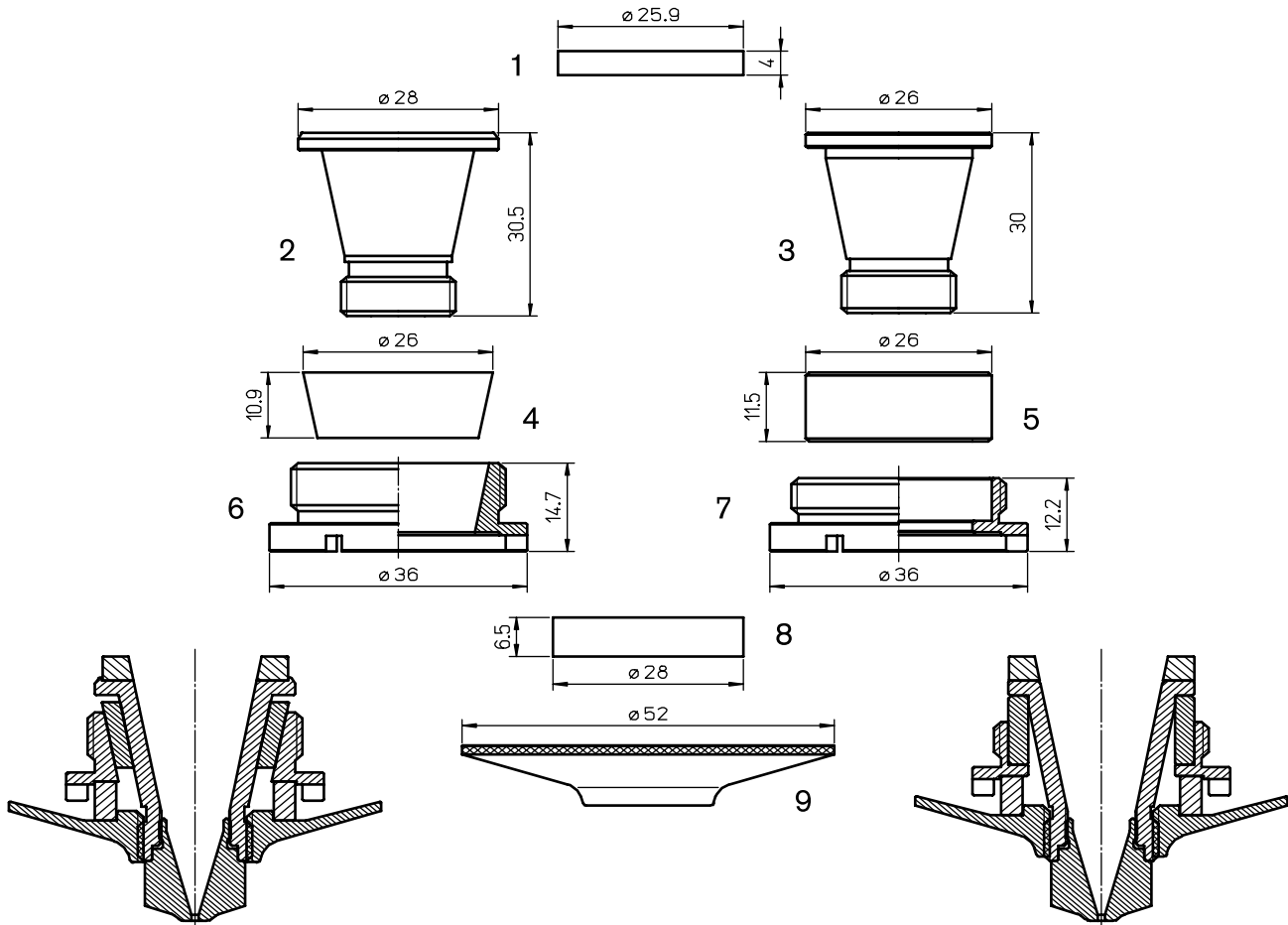
Note: Reference number indicates nozzle style and orifice diameter(s)



Accessories

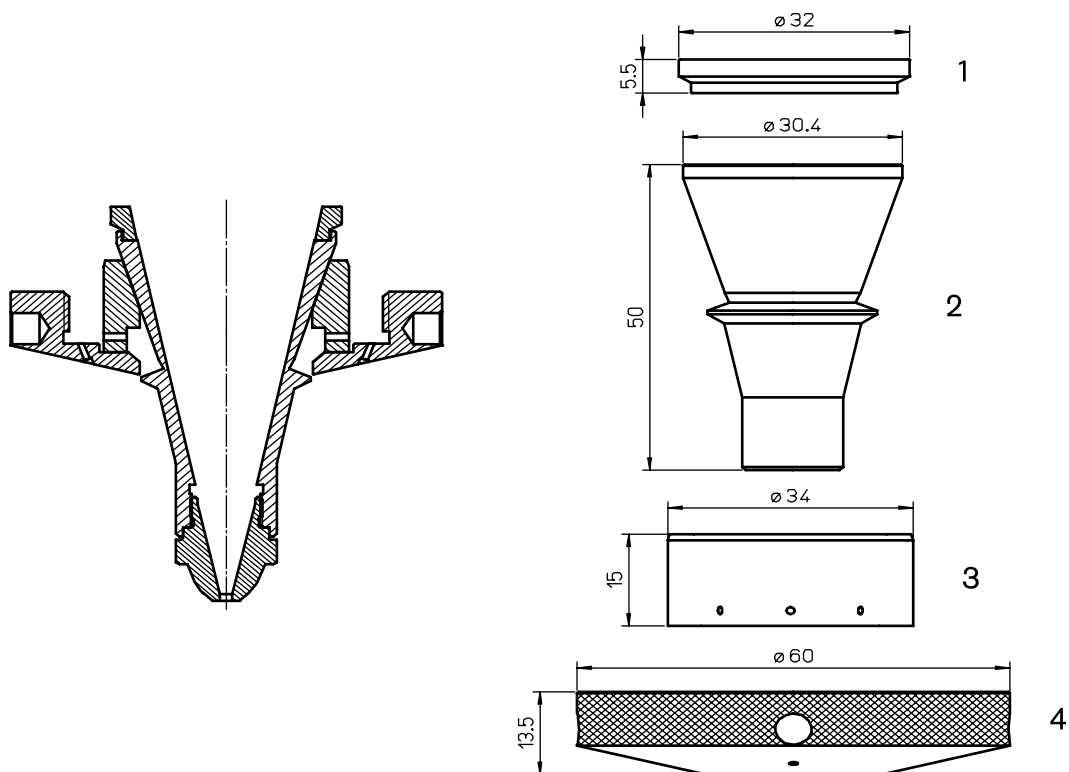
	Centricut part number	Reference number	Alternate reference	Description	Pkg qty
1	BY328-5530	3-05530	AL26	Scanner	1
2	BY328-2015	2-01262	AL5	Scanner	1
3	BY328-0015	2-02015	AL252	Scanner	1
4	BY328-2016	2-02016	AL251	Ball scanner	1
5	BY328-3137	4-03137	AL24	Pin	5
6	BY328-3136	4-03136	AL25	Knurled screw – brass	1
7	BY328-0324	4-00324	AL1	Knurled screw	1
8	BY328-9001	3-09001	AL208	Cross jet screw	1
9	BY328-2291	3-02291	AL188	Nozzle body	1
10	BY328-5497	3-05497	AL102	Nozzle body – copper	1
11	BY328-3663-T	3-03663-T	AL206	Disc PTFE*	1
12	BY328-3663-C	3-03663-C	AL205	Signboard ceramic	1
13	BY328-1300	3141300	AL225	O-ring	1
	BY328-1122	3141122	AL226	O-ring	1
	BY328-0236	3140236		O-ring	1
	BY328-0820	3140820	AL99	O-ring for lens	1
	BY328-0004 (not shown)		AL246	Screw kit (3 pcs) for BY328-3663-C	3

*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.



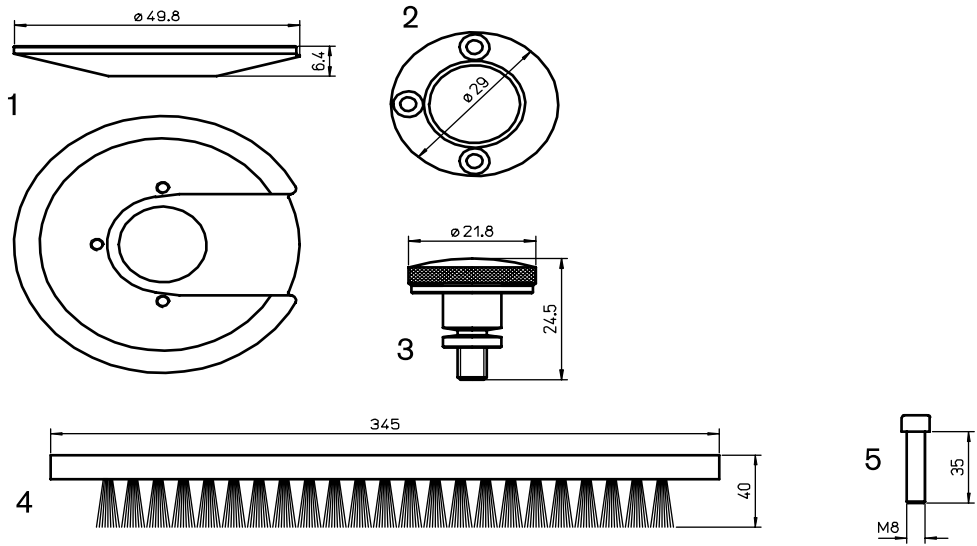
Consumables

	Centricut part number	Reference number	Alternate reference	Description	Pkg qty
1	BY328-0642	4-01642	AL125	Insulation disc - ceramic	1
	BY328-1642	4-01642	AL231	Insulation disc (new version) - ceramic	1
2	BY328-8701	2-08701	AL172	Nozzle body	1
3	BY359-2930 NEW	10032930	AL423	Nozzle body	1
4	BY328-0959	4-01959	AL124	Cone - ceramic	1
	BY328-1959	4-01959	AL230	Cone (new version) - ceramic	1
5	BY359-2838 NEW	10032838	AL425	Ceramic insulating ring	1
6	BY328-1071	3-11071	AL174	Fastening nut	1
7	BY359-2839 NEW	10032839	AL424	Fastening nut	1
8	BY328-9010	4-09010	AL126	Insulation ring - ceramic	1
9	BY328-8700	2-08700	AL173	Signboard	1
	BY328-0005	2-08700	AL173X	Signboard - CP	1



Consumables

	Centricut part number	Reference number	Alternate reference	Description	Pkg qty
1	BY359-3113	3-13113	AL215	Insulating ring	1
2	BY359-0837	2-10837	AL214	Nozzle body	1
3	BY359-3422	3-13422	AL216	Insulating ring w/holes	1
4	BY359-3110	3-13110	AL258	Shield - copper	1



Accessories

	Centricut part number	Reference number	Alternate reference	Description	Pkg qty
1	BY359-6035	3-06035	AL222	Signboard copper only	1
	BY359-0001		AL245	Screw kit (3 pcs) for BY359-6035	3
2	BY328-328-1	3-06035-T	AL120	Disc PTFE*	1
	BY328-328-2	3-06035-P	AL120/P	Disc long life	1
3	BY328-4976	4-04976	AL209	Knurled screw	1
4	BY328-6511	2-06511	AL300	Brush w/screws	1
5	BY328-3884	333884	333884	Plastic screws (2 pcs)	2
Filters – not shown					
	BY328-0020	D020	7004621	Air filter	1
	BY328-4753	71064753	7001341	Vacuum pump filter	1
	BY328-0145	8820145	8820145	Water filter 60/MC	1
	BY328-0154	8820154	8820154	Water filter 140M/C	1
	BY328-9417	A37100MFO	7509417	Filter 37x106	1
	BY328-9412		7509412	Air filter (active coal)	1
	BY328-2456	502456	502456	Vacuum pump filter – 4000W	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.

Optics

Centricut part number	Reference number	Type	Diameter	Focal length	Edge thickness
Lenses					
BY314-0185	4-00185	MEN	1.5"	3.75"	.236"
BY314-0736	4-10736	MEN	1.5"	3.75"	.354"
BY314-0186	4-00186	MEN	1.5"	5.00"	.236"
BY314-0187	4-00187	MEN	1.5"	7.50"	.236"
BY314-5094	4-05094	MEN	1.5"	5.00"	.354"
BY314-1644	120216, 621644	MEN	1.5"	5.00"	.354"
BY314-5095	4-05095	MEN	1.5"	7.50"	.354"
BY314-8637	698637	MEN	1.5"	7.50"	.354"
BY314-7475	4-07475	PLX	1.5"	5.00"	.354"
Ultra low absorption lenses					
BY314-0186MP5	4-00186	MEN	1.5"	5.00"	.236"
BY314-0187MP5	4-00187	MEN	1.5"	7.50"	.236"
BY314-5094MP5	4-05094	MEN	1.5"	5.00"	.354"
BY314-5095MP5	4-05095	MEN	1.5"	7.50"	.354"

Centricut part number	Reference number	Material	Diameter	Edge thickness	S1
Phase shift mirrors					
BY314-0226	4-00226	CU	1.96"	.394"	
BY314-9328	4-09328	CU	1.96"	.394"	
BY314-8232	558232/F	CU	2.0"	2.126"	

Centricut part number	Reference number	Type	Material	Diameter	Edge thickness	S1
Collimating optics						
BY314-1017	4-11017	MMR	CU	1.96"	.394"	100MCC
BY314-1018	4-11018	MMR	CU	1.96"	.394"	10MCC
BY314-7006	4-07006	MMR	CU	1.96"	.394"	2MCC/SPT
BY314-7007	4-07007	MMR	CU	1.96"	.394"	1.4MCX
BY314-9332	4-09332	MMR	CU	2.36"	.393"	45 DEG

Centricut part number	Reference number	Type	Material	Diameter	Edge thickness	S1
Zero phase shift mirrors and total reflectors						
BY314-9329	4-09329	TRZ	CU	1.96"	.394"	
BY314-5173	4-05173	TRZ	CU	1.96"	.394"	1.68MCX
BY314-5172	4-05172	TRZ	CU	2.0"	.390"	1MCX
BY314-0227	4-00227	TRZ	CU	2.0"	.390"	
BY314-9537 NEW	169537	PS	CU	1.968"	.394"	
BY314-0206 NEW	754229	ZPS	CU	1.496"	.236"	
BY314-0203	4-00203	ZPS	CU	1.96"	.394"	
BY314-0201	4-00201	ZPS	CU	2.0"	.390"	
BY314-0214	4-00214	ZPS	CU	2.0"	.390"	2.25MCX
BY314-0217	4-00217	ZPS	CU	2.0"	.390"	3MCC
BY314-0200	4-0020	ZPS	CU	2.36"	.390"	
BY314-2580 NEW	172580	MMR	CU	1.968"	.375"	2.28MCX
BY314-1030	4-11030	MMR	CU	1.96"	.394"	80MCC
BY314-1029	4-11029	MMR	CU	1.96"	.394"	80MCC/EG
BY314-1425	591425/F	MMR	CU	2.0"	2.126"	

Optics

Centricut part number	Reference number	Material	Diameter	Edge thickness	S1/Reflectivity	S2
Output couplers						
BY314-3122	4-03122	ZNSE	1.0"	.236"	30MMC-65%	30MCX
BY314-9352	4-09352	ZNSE	1.18"	.236"	30MCC	
BY314-8318	4-08318	ZNSE	1.18"	.236"	30MCC-50%	
Rear mirrors						
BY314-3118	4-03118	GE	1.0"	.236"	15MCC-99.60%	
BY314-6043 NEW	816043	GE	1.1"	.220"	15MCC	0.6MCX
BY314-9336	4-09336	GE	1.18"	.236"	15MCC	
BY314-8317	4-08317	GE	1.18"	.236"	30MCC-99.60%	

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.

Hypertherm[®]
Cut with confidence[®]

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

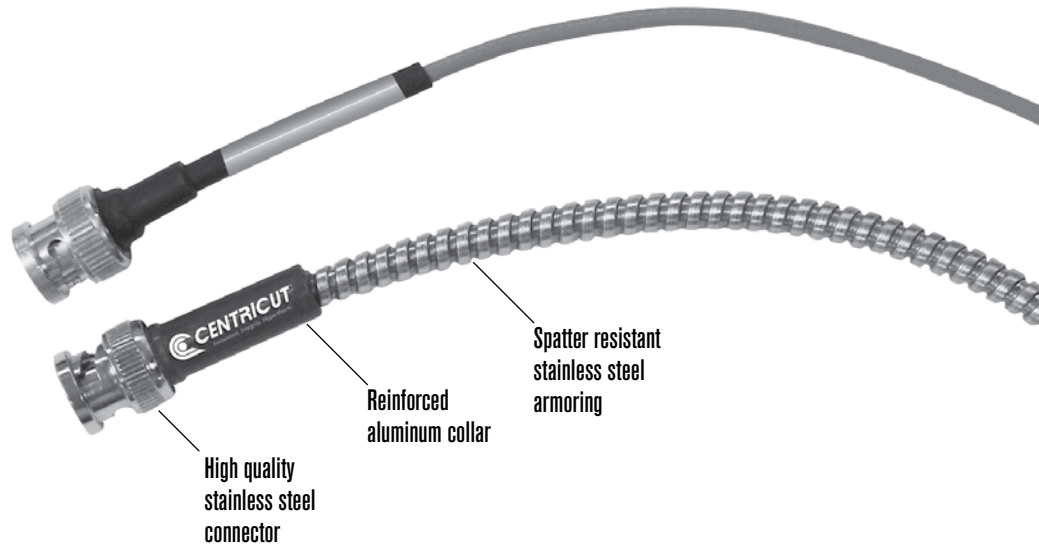
* Not available in all regions. Sensor cone repair is available for most sensor cones. Only a representation is listed above. For more information contact us at CTlaser@hypertherm.com

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")

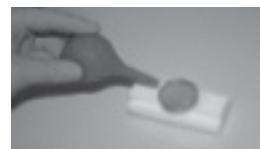
Lens cleaning tips

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.



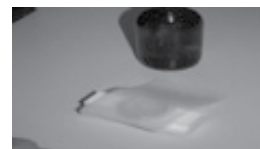
Step #2

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



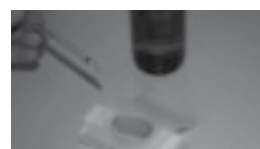
Step #3

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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Precitec



Prima



NTC



Tanaka



For more information on Centricut laser products,
visit www.hypertherm.com/centricut/laser

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One of Hypertherm's long-standing core values is a focus on minimizing our impact on the environment. Doing so is critical to our, and our customers' success. We are always striving to become better environmental stewards; it is a process we care deeply about.

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