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2022 catalog

For CO₂ and fiber laser consumables Replacement parts suitable for Trumpf®





CO₂ and fiber 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

Copper

Most commonly used nozzle offering good durability and nozzle life. Primary nozzle type for fiber lasers.

Chrome plated

Shiny, mirror-like finish provides increased spatter resistance, improved durability and longer life than copper nozzles. Not recommended for use on fiber lasers.

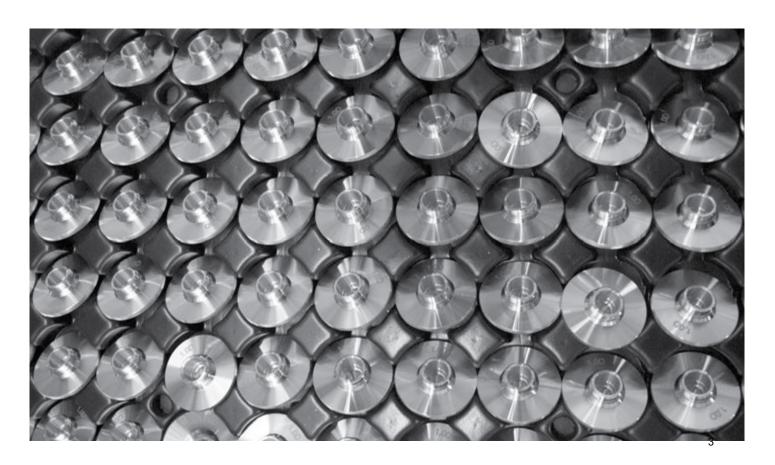
Look for CP in the part number to identify a chrome plated nozzle

Hard chrome plated

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. Not recommended for use on fiber lasers.

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

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.	



CO₂ and fiber laser optics

Optics key

Lens		
MEN	Meniscus	
PLX	Plano-convex	
MTD	Mounted	
Not MTD	Not mounted	
P0	Plano	
ULA	Ultra low absorption	
AR	Anti-reflection	
ZNSE	Zinc selenide	
FS	Fused silica	
DIA	Diameter	
FL	Focal length	
ET	Edge thickness	
WD	Working distance	

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 ontics 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



Optics

Centricut part number	Reference number	Туре	Material	Diameter	Focal length	Edge thickness
Fiber laser lens						
NT375-7955		PLX	FS	30 mm	123 mm	3.82 mm
TR300-9799	1869799	PLX	FS	30 mm	146 mm	8.0 mm
TR300-3107	1603107	PLX	FS	40 mm	150 mm	8.0 mm
AM313-0238	7710238, 71565737	PLX	FS	50.8 mm	190 mm	11.4 mm
SA384-0022	316-301-0022, 970128	PLX	FS	25.4 mm	200 mm	6.35 mm
SA384-0026	316-301-0026, ESTFL02119	PLX	FS	38.1 mm	210 mm	6.35 mm
PR361-8988NM	968988, 344631	PLX	FS	1.5"	5.0"	.280"
MB312-8858		PLX	FS	2.0"	7.5"	.45"
PR361-0773	970773/M15-15-B X-SP-7MM	PLX MTD	FS	1.5"	5.0"	.275"
PR361-8988	LH968988PVL, 576.41.005	PLX MTD	FS	1.5"	5.0"	.280"

Centricut part number	Reference number	Material	Diameter	Edge thickness
Fiber laser windows				
PT317-1424	P0588-1022-00001	FS	21.5 mm	2.0 mm
PT317-0589	970397, 6930003260, P0589-360-00002, R26RT006410, R26ZZC90110	FS	22.35 mm	4.0 mm
PT317-9360	6930003260, P0589-360-00001	FS	22.35 mm	4.0 mm
MB312-2336	632336-117	FS	25.4 mm	4.0 mm
RT300-0035 NEW	211LCG0035, 211LCG0037	FS	27.9 mm	4.1 mm
PT317-0010	P0253-1034-00001	FS	30.0 mm	1.5 mm
TR300-6719	766719, P0795-1201-00002	FS	30.0 mm	5.0 mm
SA384-0007	316-304-0007, ESTFL001407, 632755-117	FS	32.0 mm	6.35 mm
BY314-5979 NEW	10086368, 10071591,5335979	Sapphire	34.0 mm	2.8 mm
TR300-4767	1614767	FS	34.0 mm	4.9 mm
PR361-0089	1057.81000.089	FS	35.0 mm	1.5 mm
BY314-5746	968752, 10045746, 10-02-01-5511	QTZ	36.0 mm	5.0 mm
PR361-0474	970474	FS	37.0 mm	4.0 mm
PT317-1551	P0595-61551, P0595-58601-61551	FS	37.0 mm	7.0 mm
PT317-1425	SCR-01	FS	38.0 mm	5.2 mm
CN307-3987	913987, 71598028	FS	38.1 mm	1.6 mm
MZ315-6850 NEW	Z50ZZ016850	FS	42.0 mm	9.0 mm
MZ315-5350	Z50SA015350, W495	FS	42.0 mm	9.0 mm
AM313-1308	71571308, 5172635	FS	45.0 mm	3.0 mm
PT317-5919	77005919	FS	48.0 mm	7.0 mm
PT317-1789	284.0402, 971789, 717062	FS	50.0 mm	3.18 mm
MB312-0137	633744-137	FS	50.0 mm	8.0 mm
AM313-0026	71570026	FS	OCTAGONAL	1.5 mm

Centricut part number	Reference number	Туре	Material	Diameter	Focal length	Edge thickne
CO ₂ lenses		-Jp-			9	
TR300-0115 NEW (Cut - No RFID)		MEN	ZNSE	1.969"	4.528"	.350"
TR300-0130 NEW (Cut - No RFID)	400130LMA , 0380117, D40 Cut, 630790-117	MEN	ZNSE	1.575"	5.118"	.295"
TR300-8123 NEW	518123	MEN	ZNSE	1.575"	6.102"	.295"
TR300-0175 NEW (Cut – No RFID)			ZNSE	1.969"	6.89"	.350"
TR300-0250 NEW (Cut – No RFID)	400250LMA, 0380115, D40 Cut, 630789-117		ZNSE	1.575"	9.842"	.295"
TR300-2500 NEW (Cut – No RFID)	1330443, 62439	MEN	ZNSE	1.969"	9.842"	.350"
LL342-1819	166634, 61819	MEN	ZNSE	1.1"	5.0"	.236"
TR300-0163	350163, 861143, LMZ1.5-0.29-10.00-2048	MEN	ZNSE	1.5"	10.0"	.290"
TR300-6477	726477	MEN	ZNSE	1.5"	10.0"	.354"
BY314-0185	4-00185, 4-00372, 142375, 60603	MEN	ZNSE	1.5"	3.75"	.236"
TR300-6104	346104, 61962, 831393	MEN	ZNSE	1.5"	3.75"	.290"
BY314-0736	414323, 4-10736	MEN	ZNSE	1.5"	3.75"	.354"
BY314-0186	60260, 507790, 4-00186. 110111	MEN	ZNSE	1.5"	5.0"	.236"
TR300-8114	088114, 60696, 406294. 110109, 61014, 658108, 29100023, 6930001002	MEN	ZNSE	1.5"	5.0"	.290"
BY314-5094	767963, 60615, 4-05094, 110113, 358186, 62710	MEN	ZNSE	1.5"	5.0"	.354"
PR361-0004	62709, 621644, 120216	MEN	ZNSE	1.5"	5.0"	.354"
PT317-0001	61851, 312370	MEN	ZNSE	1.5"	7.5"	.125"
BY314-0187	784964, 60602, 4-00187, 110112	MEN	ZNSE	1.5"	7.5"	.236"
			ZNSE		7.5"	.290"
TR300-7517	097517, 60697, 702232, 110110, 61983	MEN	-	1.5"		
LL342-1171	61171	MEN	ZNSE	1.5"	7.5"	.310"
BY314-5095	60616, 4-05095, 570721, 110114, 361129	MEN	ZNSE	1.5"	7.5"	.354"
BY314-8637	698637	MEN	ZNSE	1.5"	7.5"	.354"
TR300-1972	61961, 141972, 977976	MEN	ZNSE	1.5"	8.85"	.290"
TR300-8123	518123	MEN	ZNSE	1.575"	6.102"	.295"
LV333-0176	480176, 29100115	MEN	ZNSE	1.75"	5.0"	.354"
LV333-1551	981551, LMZ2.0-0.380-10.0-2053, 29100061S	MEN	ZNSE	2.0"	10.0"	.380"
PT317-6326	206326	MEN	ZNSE	2.0"	5.0"	.378"
LV333-1004	458138, LMZ2.0-0.380-5.00-2051, PLLMZ0024, 29100154	MEN	ZNSE	2.0"	5.0"	.380"
CN307-2376	61405, 695399, 922376, 60698, 29100055	MEN	ZNSE	2.0"	7.5"	.380"
AM313-0305	61161, 81140305, LPCZ-1.10-0.16-5.0-1044, PLLPZ0132, 561067	PLX	ZNSE	1.1"	5.0"	.160"
AM313-6602	726602	PLX	ZNSE	1.1"	7.5"	.160"
AM313-0657	600657, 71502030, LPCZ-1.5-0.30-10.0-1128	PLX	ZNSE	1.5"	10.0"	.300"
TK374-2235	312235	PLX	ZNSE	1.5"	12.5"	.300"
PT317-8950	148950	PLX	ZNSE	1.5"	2.5"	.085"
MZ315-0130	60830, Z50MB000130, 962834, 766479	PLX	ZNSE	1.5"	5.0"	.118"
TR300-0002	61163, LMZ1.5-0.16-5.00-2043, 706491, 907557, PLCZ-1.5-0.16-5.0-1116	PLX	ZNSE	1.5"	5.0"	.160"
MZ315-0160	60770, 227092, Z50MB000130H, LPCZ-1.5-0.236-5.0-1122, 834-319-002	PLX	ZNSE	1.5"	5.0"	.236"
PR361-9011	834-319-011, 60905, 658108, ZC15500300, Z50MB000400, 578662, MLL00016	PLX	ZNSE	1.5"	5.0"	.300"
MB312-500	W500, 60905, 110144, LPCZ-1.5-0.30-5.0-1125, PLLPZ0132	PLX	ZNSE	1.5"	5.0"	.310"
MB312-300 CN307-8085	941031, 61001, 908085, ZC15513280, 110092, PLLPZ0033	PLX	ZNSE	1.5"	5.0"WD	.280"
PR361-0003	60784, LPCZ-1.5-0.236-7.5-1123	PLX	ZNSE		7.5"	.236"
	•			1.5"		
PR361-9012	834-319-012, 60906, 618938, 306068, 741363, 60882, 299133, 71501070NM, 62649	PLX	ZNSE	1.5"	7.5"	.300"
MB312-018	60906, W018, 383862, 60906LA, W018, 62649ULA, 383862, 62649LA	PLX PLX	ZNSE	1.5"	7.5"	.310"
CN307-9484	909484, 61002, 464497, 100096, LPCZ-1.5-0.280-5.13-1007, PLLPZ0052		ZNSE	1.5"	7.5"WD	.280"
PT317-8275	628275, W502A, 630736-117		ZNSE	2.0"	10.0"	.310"
PT317-0537	960537	PLX	ZNSE	2.0"	10.0"	.380"
CN307-4498	154498, 926274	PLX	ZNSE	2.0"	10.0"WD	.380"
TK374-7338	197338	PLX	ZNSE	2.0"	11.25"	.310"
MZ315-5980	145980	PLX	ZNSE	2.0"	5.0"	.300"
MB312-505	W505, 110169, PLLPZ0162, 304725, 61003, Z50ZZ005160	PLX	ZNSE	2.0"	5.0"	.310"
MZ315-0516A	61019, Z50ZZ00516A, Z50ZZ013480, 81140307, 741363	PLX	ZNSE	2.0"	5.0"	.380"

Centricut part number	Reference number	Туре	Material	Diameter	Focal length	Edge thickness
CO ₂ lenses (continued)						
MZ315-3480HA	158039, Z50ZZ013480 HIGH ACCURACY	PLX	ZNSE	2.0"	5.0"	.380"
CN307-0676	870676, 61514, LPCZ-2.0-0.38-5.19-1141, PLLPZ0116	PLX	ZNSE	2.0"	5.0"WD	.380"
MZ315-3470HA	769062, Z50ZZ013470 HIGH ACCURACY	PLX	ZNSE	2.0"	7.5"	.380"
NT375-4494	634494, LPCZ-2.0-0.30-7.5-1133	PLX	ZNSE	2.0"	7.5"	.300"
MB312-510	W510, 61004, 892020, 110122, PLLPZ0138	PLX	ZNSE	2.0"	7.5"	.310"
MZ315-0520A	61405, 232771, Z50ZZ00520A, MLL00018, Z50ZZ005200, Z50ZZ013470, 81140186	PLX	ZNSE	2.0"	7.5"	.380"
CN307-1603	61515, 781603, LPCZ-2.0-0.38-7.67-1143, PLLPZ0115	PLX	ZNSE	2.0"	7.5" WD	.380"
TK374-3478	541344, 263478, Z50ZZ00530A, LPCZ-2.0-0.31-7.45-1137	PLX	ZNSE	2.0"	8.75"	.310"
TK374-6670	236670, 61690, Z50ZZ00550A	PLX	ZNSE	2.5"	10.0"	.390"
TK374-1592	178937	PLX	ZNSE	2.5"	11.25"	.310"
TK374-8593	828593	PLX	ZNSE	2.5"	12.5"	.390"
TK374-3827	243827, Z50ZZ00540A, LPCZ-2.5-0.31-8.75-1145	PLX	ZNSE	2.5"	8.75"	.310"
AM313-0221	81140221, 6067639	PLX MTD	ZNSE	1.5"	3.75"	.300"
AM313-0306	81140306, 65024, 578662/M16-15-1C-P5.0, PLLPZ0133, 6874793	PLX MTD	ZNSE	1.5"	5.0"	.300"
AM313-1216	578662/M20-15-1C-P5.0, 9001216A, 71501072, 7973109, 6360374	PLX MTD	ZNSE	1.5"	5.0"	.300"
AM313-8662	578662/M21-15-1C-P5.0, 6060415	PLX MTD	ZNSE	1.5"	5.0"	.300"
AM313-9830	65101, 578662, 6547252	PLX MTD	ZNSE	1.5"	5.0"	.300"
AM313-1215	9001215A, 306068/M21-15-1C-P7.5, 7973110, 71501070, 6395647	PLX MTD	ZNSE	1.5"	7.5"	.300"
AM313-9831	71369831, 65102, 6550214	PLX MTD	ZNSE	1.5"	7.5"	.300"
AM313-10F1	680154-001, 71710061, 6021844	PLX MTD	ZNSE	2.0"	10.0"	.380"
AM313-0307	65035, 81140307, 741363, 6068456	PLX MTD	ZNSE	2.0"	5.0"	.380"
AM313-50F1	71710059, 741363M30-20-1C-P5.0, 6296946	PLX MTD	ZNSE	2.0"	5.0"	.380"
AM313-0400	306068, 65025, 81140400, 6022704	PLX MTD	ZNSE	2.0"	7.5"	.300"
AM313-0186	65038, 81140186, PLLPZ0156, 6068413	PLX MTD	ZNSE	2.0"	7.5"	.380"
AM313-75F1	232771M31-20-1C-P7.5, 71710030, 6243925	PLX MTD	ZNSE	2.0"	7.5"	.380"
BY314-7014ULA	460386, 4-07014	MEN	ZNSE ULA	1.5"	10.0"	.354"
BY314-0186ULA	4-00186, 528717, 60260LA	MEN	ZNSE ULA	1.5"	5.0"	.236"
TR300-8114ULA	60696LA, 312503, 29100023, 88114, PLLPZ0125B	MEN	ZNSE ULA	1.5"	5.0"	.290"
BY314-5094ULA	123397, 4-07475, 60615LA, LMZ1.5-0.354-5.0-2008	MEN	ZNSE ULA	1.5"	5.0"	.354"
BY314-0187ULA	714512, 60602LA, 4-00187	MEN	ZNSE ULA	1.5"	7.5"	.236"
TR300-7517ULA	60697LA, 97517, 474644, PLLPZ0126B	MEN	ZNSE ULA	1.5"	7.5"	.290"
BY314-5095ULA	602033, 60616LA, 4-07476, LMZ1.5-0.354-7.5-2009, PLLPZ0130B, 62710	MEN	ZNSE ULA	1.5"	7.5"	.354"
BY314-8294ULA	996707, 10048294	MEN	ZNSE ULA	1.5"	9.0"	.354"
HW405-4913	114913	MEN	ZNSE ULA	2.0"	10.0"	.379"
HW405-5270	355270	MEN	ZNSE ULA	2.0"	5.0"	.378"
HW405-7143	527143, 467572, 60698LA, 291005-5, 308332, PLLMZ0025B	MEN	ZNSE ULA	2.0"	7.5"	.379"
MZ315-0160ULA	60770LA, 857048, Z50MB000160	PLX	ZNSE ULA	1.5"	5.0"	.236"
MZ315-0400ULA	106106, PLLPZ0132B, 60905LA, Z50MB000400, 62670ULA	PLX	ZNSE ULA	1.5"	5.0"	.300"
CN307-8085ULA	61001LA, 794914, 908085,	PLX	ZNSE ULA	1.5"	5.0"WD	.280"
MB312-018ULA	383862	PLX	ZNSE ULA	1.5"	7.5"	.300"
CN307-9484ULA	PLLPZ0052B		ZNSE ULA	1.5"	7.5"WD	.315"
MB312-505ULA	61003LA, 922203, W505		ZNSE ULA	2.0"	5.0"	.310"
AM313-0307NULA	81140307, 61019LA, 753010	PLX	ZNSE ULA	2.0"	5.0"	.380"
CN307-0211ULA	540211, 61019LA, 922377	PLX	ZNSE ULA	2.0"	5.0"WD	.380"
MB312-510ULA	61004LA, 635061, W510,	PLX	ZNSE ULA	2.0"	7.5"	.310"
CN307-2376ULA	329011, 922376, 61515ULA,	PLX	ZNSE ULA	2.0"	7.5"	.380"
MZ315-0520AULA	392125, 61405LA, Z50ZZ000520A, PLLPZ0135B, 81140186 61405ULA	PLX	ZNSE ULA	2.0"	7.5"	.380"

Centricut part number	Reference number	Туре	Material	Diameter	Focal length	Edge thickness
CO ₂ lenses (continued)						
AM313-0306ULA	65024LA, 81140306, 106106, M16-15-1C-P5.0, 6936448	PLX MTD	ZNSE ULA	1.5"	5.0"	.300"
AM313-1216ULA	106106, M20-15-1C-P5.0, 6071896	PLX MTD	ZNSE ULA	1.5"	5.0"	.300"
AM313-9830ULA	71369830, 106106, 65101LA, 106106/M16-15-1C-P5.0-A2-NI-1A	PLX MTD	ZNSE ULA	1.5"	5.0"	.300"
AM313-0400ULA	65025LA, 383862/M16-15-1C-P7.5-A2-NI-1A, 81140400, 383862	PLX MTD	ZNSE ULA	1.5"	7.5"	.300"
AM313-1215ULA	M21-15-1C-P7.5, 383862, 6071853	PLX MTD	ZNSE ULA	1.5"	7.5"	.300"
AM313-9831ULA	65102LA, 71369831, 383862	PLX MTD	ZNSE ULA	1.5"	7.5"	.300"
AM313-0307ULA	313-0307ULA 81140307, M16-20-1C-P5.0, 753010, 65035LA, 753010M16-20-1C-P5.0		ZNSE ULA	2.0"	5.0"	.380"
AM313-0186ULA	392125, 65038LA, M16-20-1C-P7.5, 81140186, 6816292	PLX MTD	ZNSE ULA	2.0"	7.5"	.380"

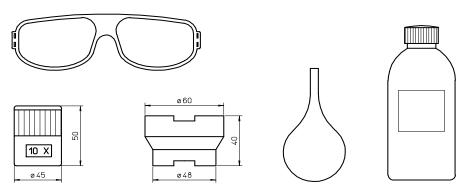
Accessories

Centricut part number	Reference number	Description	Pkg qty
TR300-6452		Lens cleaning Tiffen paper (50 pcs)	1
TR300-1115		Lens cleaning pre-cut cotton (100 pcs)	1
TR300-1010		Dropper, lens cleaning fluid	1
TR300-1112		Optical cleaning fluid	1
TR300-0699	70675699 REVA	Lens cleaning swabs (25 pcs)	1
TR300-7991	27991	Polyester wipes 4" x 4" (100 pcs)	1
TR301-0282		Injector	1
TR300-LSA		Lens stress analyzer	1
TR300-255		Magnifying loop	1
TR300-271		Base, mirror maintenance	1
TR300-7388	787388	Mirror polish .1UM 250ML	1
MZ335-115	ALI115/M	MZ-Wire, Indium .8 mm x 125 mm 1.5" Lens	1
MZ335-120	ALI120/M	MZ-Wire, Indium .8 mm x 160 mm 2.0" Lens	1



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ACCESSORIES



POS Talas CODE ORIGINAL CODE

DESCRIPTION

AL1100 LASER CO² GLASSES CE APPROVED

AL1100017 LASER ECO CO² GLASSES CE APPROVED 1.5-4.0kW
AL1100015 LASER PROTECTOR CO² GLASSES CE APPROVED 1.5-4.0kW
AL1100018 LASER PROTECTOR CO² GLASSES CE APPROVED 1.5-4.0kW

GLADIATOR LASER OVERGLASSES CO² LIGHT VERSION 80g
OVERSPEC LASER OVERGLASSES CO² VERSION 1500-4000W

AL1001 123602 LENS CLEANING LIQUID - ml 200

AL1001/L 123602 LENS CLEANING LIQUID - ml 1000

AL1003-100 240568-100 LENS CLEANING POLISH - ml 100

AL1003-200 240568-200 LENS CLEANING POLISH - ml 200

AL1004 POLISH DETERGENT

AL1010 DROPPER FOR LENS CLEANING LIQUID

AL1120 LATEX GLOVES - 10 pieces

ALI115 INDIUM WIRE Ø 1.0mm FOR 1.5" LENS

ALI115/M MAZAK® INDIUM 0.8mm FOR 1.5" MAZAK® LENS

ALI120 INDIUM WIRE Ø 1.0mm FOR Ø 2.0mm LENS

ALI120/M MAZAK® INDIUM 0,8mm FOR 2,0" LENS

SC50 LENS CLEANING PAPER - 75x135 - 50sheets

SC100 KODAK LENS CLEANING PAPER - 70x120 - 50sheets

SC105 LENS CLEANING PAPER - 100x105 - 50sheets

SC20 COTTON SWAB -20 pieces

AL1115 LENS CLEANING PRE-CUT COTTON - 100 pieces

AL255 091860 SCALE LUPE

AL271 BASE FOR LENS MAINTENANCE FOR 1,5" & 2,0" LENS

AL282 INJECTOR

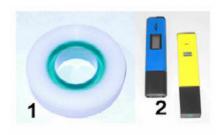
350424-005 Lens Cleaning Holder 1.5" with Polarisors 350423-005 Lens Cleaning Holder 2.0" with Polarisors

910000 Lens Cleaning Kit

020003-101 EZ Clean Wipes for Easy Lens Cleaning/ 24Pack

Paardenkerkhofstraat 56 B-2800 Mechelen Tel. +32(0)15.61.60.07 Fax. +32(0)15.61.75.27 Email. info@talas.be













































Paardenkerkhofstraat 56 B-2800 Mechelen Tel. 015.61.60.07 Fax. 015.61.75.27 Email. info@talas.be

TRUMPF® OILS



POS TALAS. CODE ORIGINAL CODE

DESCRIPTION

1652112/1653119 CU-3 kit; Water Care Copper YELLOW DOP 1 bottle 18ml Cleaning Biocide RED DOP 1 bottle 35ml

1 0387048 NEW EASY KIT 0387048

1652605/1652440 AL-3 kit; Water Care Alu BLUE CLEAR DOP 1 bottle 300ml Cleaning Biocide RED DOP 1 bottle 180ml

TRUMPF® FILTERS

	Talas CODE	ORIGINAL CODE	DESCRIPTION
	FT1	092380	TRUMPF® FILTER 092380 DX
	FT2	092381	TRUMPF® FILTER 092381 BX
	FT3	092379	TRUMPF® FILTER 092379 CI
	FT4	123676	TRUMPF® FILTER 123676
	FT5	123675	TRUMPF® FILTER 123675
	FT6	123674	TRUMPF® FILTER 123674
	CP10	146152	TRUMPF® WATER FILTER 30x68x250 146152
			② ————————————————————————————————————
POS	Talas CODE	ORIGINAL CODE	DESCRIPTION
2	351086	0351086-S0492-001- 00000	TRUMPF® - ORIG. ELECTRODE CABLE PRECITEC® KE 130 gw/TT

Talas is in no way affiliated with TRUMPF®. The parts advertised for sale are not genuine TRUMPF® parts, but are parts made for and by Talas Reference to TRUMPF® machine and numbers are for your convenience only.

TRUMPF® SPARE PARTS

POS TALAS. CODE ORIGINAL CODE DESCRIPTION

830000

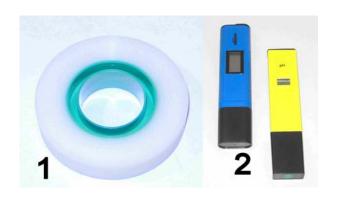
40500	F 0560-2420-08	Airfilter for Cooling 2420x560x8mm (25st)
40501	F 0550-2420-08	Airfilter for Cooling 2420x550x8mm (25st)
40502	F 0660-1670-08	Airfilter for Cooling 1670x660x8mm (25st)
40503	F 0755-1520-08	Airfilter for Cooling 1520x755x8mm (25st)
40504	F 0700-1200-08	Airfilter for Cooling 1200x700x8mm (25st)
811000		Airfilter for Cooling DIN EN 779
812000		Airfilter for Cooling DIN EN 779 20x2m
812001		Airfilter for Cooling DIN EN 779 40x2m

832000 Airfilter fot Coolinf DIN EN 779 20x2m

Airfilter for Cooling DIN EN 779



8	20000	77736	Battery 1,5V
8	21000	78911	Battery 3V
8	22000	89792	Battery Lithium 3,67V
8	23000	99156	Battery 3,6V
8	24000	129563	Battery Lithium 3V
8	25000	143467	Battery Lithium 3V with MMC-Modul Connection
8	26000	98234	Battery Lithium 1620
8	27000	352459	Batterie Lithium 4,5V 400mAh
8	31000	148378	Battery 24V 0,8Ah NP 0,8-12
8	30000		Battery Tester



616100		Tapeshot Film 19mmx33m (1)
613100	140745	Conductivity Measuring Instrument (2)
613101		Ph-Measuring instrument (2)
614100	356259	Cutfluid uncoloured 5L
615100	356258	Cutfluid uncoloured 1L
614101	356259	Cutfluid uncoloured 5L 'New'
615102	356258	Cutfluid uncoloured 1L 'New'
615103		Cutfluid uncoloured 25L 'New'
608100	240568	Cleaning Polish 80ml/ 'Topol 1'
608110	367432	Cleaning Polish 80ml/ 'Topol 2'
608112		Cleaning Polish 80ml/ 'Topol 3' 'New'
618111	367431	Dropper bottle Aceton >99,5%/ 30ml
602100	86452	Cleaning paper 115x70mm/ 50 leaf
610100		Optics-Bellows with brush
600100		Optics-Cleaning Holder suitable for 1,5"
601100	779603-367429	Optics-Cleaningkist stuffed with Cleaningaccesories
604100	367430	Optics-Cotton pads / 100% Pure cotton
605100		Optics-Chopsticks / 100% Pure cotton
606100		Optics-Roll Chen / 100% Pure cotton
607100		Optics-Handshoe / 100% Pure cotton



117000	85869	Sensorkabel
117001	359983	Sensorkabel
117002	227833	Sensorkabel
118000	216066	uberwurfmutter
119000	353202-900594	Burst Insert (3)
202000	351086	Elektroden-Kabel
202100	347854	Special Burst Bar (4)
105000	88014	walzkolben pump-ol/ 1L
106000	134336	Vacuumpump -ol/ 1L
107000	368910	Hydraulik-ol/ 5L
99000	125503	Hydraulik-ol/ 1L
123000	133520	Belt conveyor motors-ol/ 1L
124000	108758	Emulsion-ol/ 1L
139000	121946	Screw gear-ol/ 1L
140000	136414	Forder Bursten-ol/ 1L
144000		Slipway-ol/ 1L
142000	1446686	Grease / 250gr
143000	139440	Grease / 900gr
145000	11780	Gear vet GB00/ 1kg
146000	124895	Gear vet GB00/ 25kg
147000	37843	Superspray Oil/ 300ml



108001	123674	Filterelement FFP (1)
160001	123675	Filterelement SMFP (1)
161001	123676	Filterelement AKP (1)
108002	377004	Filterelement AKI 'New'
160002	377005	Filterelement Al 'New'
161002	377006	Filterelement BI 'New'
109000	125791	Filterelement PP-TF
131000	92379	Filterelement CI
110000	146152	Filterelement CP (2)
110001	146152	Filterelement PP 'New' (2)
818000	147239	Filterelement Pep
819000	147240	Filterelement SMFP (1)
820000	147241	Filterelement MFP (1)
816000	83722	Vakuumfilter PK-4 (3)
817000	133105	VakuumFilter PK-6 (3)
132000	92381	Filterelement BX
128000	92380	Filterelement DX
129000	137166	Filterelement BXE
400000		
130000	137164	Filterelement DXE





102100	88165	Water Pump
102200	143366	Laboratory crucibles 50ml
102300	360152	Schut glasses Clear
102400	145701	Schut Handshoe Green gr.10
102500	935396	Pump Set
102800	133612	ol Brush G1/8"
102900	134303	Elektro-tropfoler 24V DC 0,5L
103600	121789	Fub switch F1-U2
103700	149340	Compact Keyboard 83 grope
103800	340319	Protector For Keyboard
103900	341586	Mouse PS2 / 3 grope
104000	937754	Mouse-pat
104900	143107	Filter Case R3/4" (1)
105200	144154	Filter Case-Key (2)



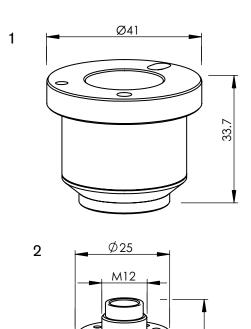
104200 104300 104400 104500	123779 126343 122306	Vario Line 33 limbs Vvario Line 17 limbs Vario Line 83 limbs Hinge Band Challenger 'New' Specify Dimension
801100 801200	345064 342812	Ffilter Disk 556x74mm incl, Poetry Filter Disk 1060x950mm incl, Poetry
801300 103000	0.4570	Filter Disk 500x600mm 'New' incl, Poetry
103000	34570 345071	Lid Seal F, Flat Filter small Lid Seal F, Flat Filter large



140004	910354	Box Bellows Z Axis to Trumpf 3030 u. 4030
140014		Box Bellows Z Axis to Trumpf 3030 u. 4030
140005		Box Bellows X Axis trumpf 3030
140015	921742	Box Bellows X Axis trumpf 3030
140006		Box Bellows Y Axis to trumpf 3030
140016	141394	Box Bellows Y Axis trumpf 3030
140007		Box Bellows X Axis trumpf 4030
140017		Box Bellows X Axis trumpf 4030
140008		Box Bellows Y Axis Trumpf 4030
140018		Box Bellows Y Axis Trumpf 4030
140019	981710	Box Bellows 3050 'New'
140020	981756	Box Bellows 3050 'New'
140021	981757	Box Bellows 3050 'New'
140022	981753	Box Bellows 3050 'New'
920715	920715	Kastenbalg L3030
920716	920716	Kastenbalg L3030



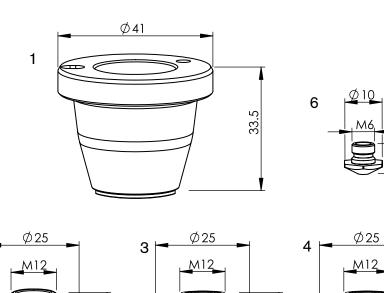
$Trumpf^{\mathbb{R}}$



	Centricut part number		Reference number	Description	Pkg qty
1	TR407-6032	AL497	1906032	TR-Nozzle holder, ceramic	1
	TR407-9940	L1990	1879940	TR-Nozzle EGL, 1.4 mm	1
,	TR407-9951	L1991	1879951	TR-Nozzle EGL, 1.7 mm	1
2	TR407-9952	L1992	1879952	TR-Nozzle EGL, 2.0 mm	1
	TR407-9953	L1993	1879953	TR-Nozzle EGL, 2.3 mm	1



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Consumables

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•••••	UISUIIIAUI65						
	Centricut part number	Esse A part number	Reference number	Description	Pkg qty		
1	TR407-5673	AL410	1349171, 1755673	TR-Nozzle holder, ceramic	1		
	TR407-4858X	L501270	1324858	TR-Nozzle EAA, 0.8 mm (10 pk)*	10		
	TR407-4860X	L501272	1324860	TR-Nozzle EAA, 1.0 mm (10 pk)*	10		
	TR407-4861X	L501273	1324861	TR-Nozzle EAA, 1.2 mm (10 pk)*	10		
	TR407-4863X	L501275	1324863	TR-Nozzle EAA, 1.4 mm (10 pk)*	10		
	TR407-4864X	L501276	1324864	TR-Nozzle EAA, 1.7 mm (10 pk)*	10		
	TR407-4858CPHX	L501270XH	1324858	TR-Nozzle EAA, 0.8 mm HCP (10 pk)*	10		
	TR407-4860CPHX	L501272XH	1324860	TR-Nozzle EAA, 1.0 mm HCP (10 pk)*	10		
2	TR407-4861CPHX	L501273XH	1324861	TR-Nozzle EAA, 1.2 mm HCP (10 pk)*	10		
2	TR407-4863CPHX	L501275XH	1324863	TR-Nozzle EAA, 1.4 mm HCP (10 pk)*	10		
	TR407-4864CPHX	L501276XH	1324864	TR-Nozzle EAA, 1.7 mm HCP (10 pk)*	10		
	TR407-4865X	L501277	1324865	TR-Nozzle EAA, 2.0 mm (10 pk)*	10		
	TR407-4866X	L501278	1324866	TR-Nozzle EAA, 2.3 mm (10 pk)*	10		
	TR407-4867X	L501279	1324867	TR-Nozzle EAA, 2.7 mm (10 pk)*	10		
	TR407-4865CPHX	L501277XH	1324865	TR-Nozzle EAA, 2.0 mm HCP (10 pk)*	10		
	TR407-4866CPHX	L501278XH	1324866	TR-Nozzle EAA, 2.3 mm HCP (10 pk)	10		
	TR407-4867CPHX	L501279XH	1324867	TR-Nozzle EAA, 2.7 mm HCP (10 pk)	10		
	TR407-9462	L2220	2059462	TR-Nozzle double EAU, 2.5 mm	1		
	TR407-0001	L2221	2060001	TR-Nozzle double EAU, 3.0 mm	1		
3	TR407-0004	L2223	2060004	TR-Nozzle double EAU, 4.0 mm	1		
	TR407-0025	L2227	2060025	TR-Nozzle double EAU, 6.0 mm	1		
	TR407-3595	L2235	2253595	TR-Nozzle double EAU, 10.0 mm	1		
	TR407-9549	L2240	1579549	TR-Nozzle double EAK, 2.5 mm	1		
4	TR407-9556	L2241	1579556	TR-Nozzle double EAK, 3.0 mm	1		
	TR407-5747	L2243	1835747	TR-Nozzle double EAK, 4.0 mm	1		
	TR407-4018	L1800	1774018	TR-Nozzle EFL, 1.4 mm	1		
5	TR407-8745	L1801	1838745	TR-Nozzle EFL, 1.7 mm	1		
ا	TR407-4020	L1802	1774020	TR-Nozzle EFL, 2.0 mm	1		
	TR407-4092	L1803	1774092	TR-Nozzle EFL, 2.3 mm	1		
6	TR407-9610	L1700	1589610	TR-Nozzle Blow off EBM, 2.0 mm	1		

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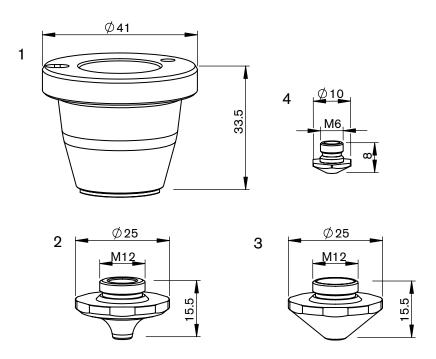
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Replacement parts suitable for:

Trumpf®



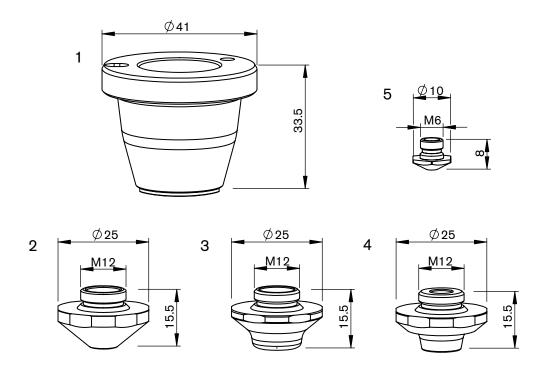
	Centricut	Esse A	Reference		Pkg
	part number	part number	number	Description	qty
1	TR407-5673	AL410	1349171, 1755673	TR-Nozzle holder, ceramic	1
	TR426-3324X	L501500	1373324	TR-Nozzle EAB, 0.8 mm (10 pk)	10
	TR426-3325X	L501501	1373325	TR-Nozzle EAB, 1.0 mm (10 pk)	10
	TR426-3326X	L501502	1373326	TR-Nozzle EAB, 1.2 mm (10 pk)	10
2	TR426-3327X	L501503	1373327	TR-Nozzle EAB, 1.4 mm (10 pk)	10
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	TR426-3328X	L501504	1373328	TR-Nozzle EAB, 1.7 mm (10 pk)	10
	TR426-3329X	L501505	1373329	TR-Nozzle EAB, 2.0 mm (10 pk)	10
	TR426-3330X	L501506	1373330	TR-Nozzle EAB, 2.3 mm (10 pk)	10
	TR426-3331X	L501507	1373331	TR-Nozzle EAB, 2.7 mm (10 pk)	10
	TR426-1308X	L501308		TR-Nozzle double, 0.8 mm (10 pk)	10
	TR426-1309X	L501309		TR-Nozzle double, 1.0 mm (10 pk)	10
	TR426-1310X	L501310		TR-Nozzle double, 1.2 mm (10 pk)*	10
	TR426-1311X	L501311		TR-Nozzle double, 1.4 mm (10 pk)*	10
	TR426-1312X	L501312		TR-Nozzle double, 1.7 mm (10 pk)	10
	TR426-1313X	L501313		TR-Nozzle double, 2.0 mm (10 pk)*	10
	TR426-1314X	L501314		TR-Nozzle double, 2.3 mm (10 pk)	10
3	TR426-1315X	L501315		TR-Nozzle double, 2.7 mm (10 pk)	10
3	TR426-1308CPHX	L501308XH		TR-Nozzle double, 0.8 mm HCP (10 pk)	10
	TR426-1309CPHX	L501309XH		TR-Nozzle double, 1.0 mm HCP (10 pk)	10
	TR426-1310CPHX	L501310XH		TR-Nozzle double, 1.2 mm HCP (10 pk)	10
	TR426-1311CPHX	L501311XH		TR-Nozzle double, 1.4 mm HCP (10 pk)	10
	TR426-1312CPHX	L501312XH		TR-Nozzle double, 1.7 mm HCP (10 pk)	10
	TR426-1313CPHX	L501313XH		TR-Nozzle double, 2.0 mm HCP (10 pk)	10
	TR426-1314CPHX	L501314XH		TR-Nozzle double, 2.3 mm HCP (10 pk)	10
	TR426-1315CPHX	L501315XH		TR-Nozzle double, 2.7 mm HCP (10 pk)	10
4	TR407-9610	L1700	1589610	TR-Nozzle blow off EBM, 2.0 mm	1

^{*} Centricut parts available in single packs. To order single packs, remove the 'X' at the end of the part number (e.g. TR426-1308X would be TR426-1308). For Esse A parts available in single packs. To order single packs, remove the '50' after the L in the part number (e.g. L501308 would be L1308).

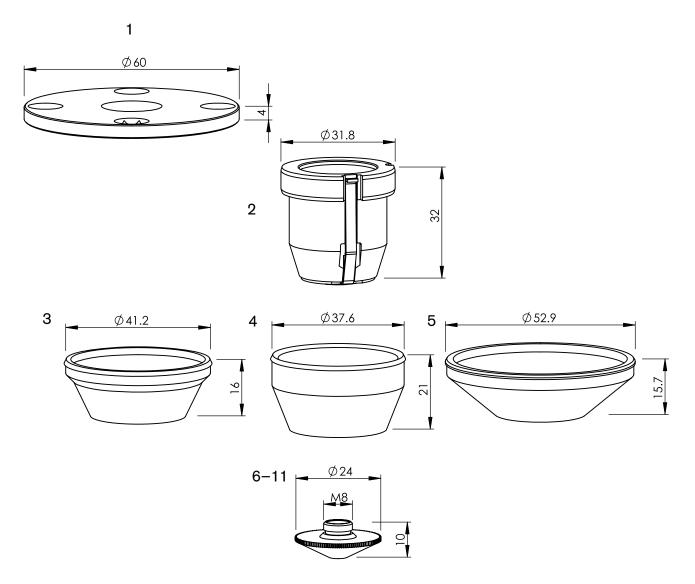


Replacement parts suitable for:

Trumpf®



	Centricut part number	Esse A part number	Reference number	Description	Pkg qty
1	TR407-5673	AL410	1349171, 1755673	TR-Nozzle holder, ceramic	1
2	TR407-7264	L1260	1637264	TR-Nozzle focusing ZAA-01	1
	TR407-9091	L1885	1809091	TR-Nozzle double EAQ, 6.0 mm	1
3	TR407-9421	L1886	1809421	TR-Nozzle double EAQ, 7.5 mm	1
	TR407-6199	L1887	1886199	TR-Nozzle double EAQ, 9.5 mm	1
4	TR407-3046	L1986	1633046	TR-Nozzle EAC, 5.3 mm	1
5	TR407-9610	L1700	1589610	TR-Nozzle blow off EBM, 2.0 mm	1



	Centricut part number	Esse A part number	Reference number	Description	Pkg qty
1	TR301-4485	AL70	234485	TR-Breakaway plate	1
2	TR301-0432	AL108	254493, 260432	TR-Nozzle holder, ceramic	1
3	TR301-4496	AL36	254496	TR-Cover, PTFE**	1
	TR301-6153	AL47	256153	TR-Cover, PTFE** (white)	1
4	TR301-6153T	AL347	955826	TR-Cover, PTFE** (black)	1
5	TR301-5286	AL41	225286	TR-Cover, PTFE**	1



Replacement parts suitable for:

Trumpf®

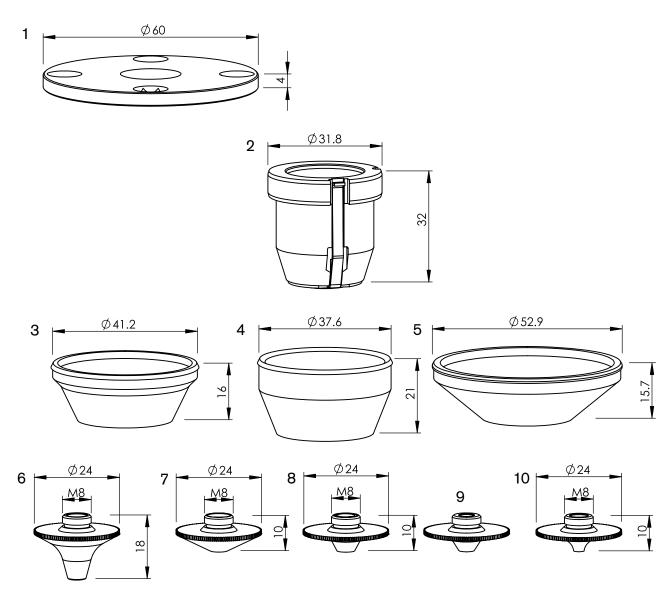
	Centricut part number	Esse A part number	Reference number	Description	Pkg qty
	TR301-4561X	L3018	0124561, 237499	TR-Nozzle, 0.8 mm (10 pk)*	10
	TR301-4562X	L3019	0124562, 237498	TR-Nozzle, 1.0 mm (10 pk)*	10
	TR301-6809X	L30361	0966809	TR-Nozzle, 1.2 mm (10 pk)*	10
	TR301-0014X	L30795		TR-Nozzle, 1.4 mm (10 pk)*	10
	TR301-7500X	L3026	237500	TR-Nozzle, 1.5 mm (10 pk)*	10
	TR301-0017X	L30796		TR-Nozzle, 1.7 mm (10 pk)*	10
	TR301-7503X	L3024	237503, 1253211	TR-Nozzle, 2.0 mm (10 pk)*	10
	TR301-4564X	L30797	124564	TR-Nozzle, 2.3 mm (10 pk)*	10
_	TR301-7504X	L3025	237504	TR-Nozzle, 3.0 mm (10 pk)	10
6	TR301-0561CPX	L3018X	0352280	TR-Nozzle, 0.8 mm CP (10 pk)*	10
	TR301-0562CPX	L3019X	0352281	TR-Nozzle, 1.0 mm CP (10 pk)*	10
	TR301-0809CPX	L30361X	0352282	TR-Nozzle, 1.2 mm CP (10 pk)*	10
	TR301-0014CPX	L30795X		TR-Nozzle, 1.4 mm CP (10 pk)*	10
	TR301-7500CPX	L3026X	0352288	TR-Nozzle, 1.5 mm CP (10 pk)*	10
	TR301-0017CPX	L30796X		TR-Nozzle, 1.7 mm CP (10 pk)*	10
	TR301-7503CPX	L3024X		TR-Nozzle, 2.0 mm CP (10 pk)*	10
	TR301-4564CPX	L30797X	124564	TR-Nozzle, 2.3 mm CP (10 pk)*	10
	TR301-7504CPX	L3025X	237504	TR-Nozzle, 3.0 mm CP (10 pk)	10
	TR301-7497X	L3020	0237497	TR-Nozzle HD, 1.4 mm (10 pk)*	10
7	TR301-1497CPX	L3020X	352283	TR-Nozzle HD, 1.4 mm CP (10 pk)*	10
	TR301-7497-S	L258	237497/\$	TR-Nozzle HD, 1.4 mm	1
	TR301-0497X	L30258	237497/\$	TR-Nozzle HD, 1.4 mm (10 pk)*	10
	TR301-7501X	L3021	0237501	TR-Nozzle HD, 1.7 mm (10 pk)*	10
	TR301-3211X	L30168	237502, 1253211	TR-Nozzle HD, 2.0 mm (10 pk)*	10
	TR301-6933X	L3076	0126933	TR-Nozzle HD, 2.3 mm (10 pk)*	10
	TR301-0003X	L30185	0120000	TR-Nozzle HD, 2.5 mm (10 pk)	10
	TR301-2742X	L30360	0942742	TR-Nozzle HD, 2.7 mm (10 pk)*	10
8	TR301-0004X	L30396	OU IET IE	TR-Nozzle HD, 3.0 mm (10 pk)	10
Ů	TR301-0497CPX	L30258X		TR-Nozzle HD, 1.4 mm CP (10 pk)*	10
	TR301-0501CPX	L3021X	0352284	TR-Nozzle HD, 1.7 mm CP (10 pk)*	10
	TR301-1002CPX	L30168X	0237502, 352287	TR-Nozzle HD, 2.0 mm CP (10 pk)*	10
	TR301-0933CPX	L3076X	0352285	TR-Nozzle HD, 2.3 mm CP (10 pk)*	10
	TR301-0003CPX	L30185X	0002200	TR-Nozzle HD. 2.5 mm CP (10 pk)	10
	TR301-0742CPX	L30360X	0352286	TR-Nozzle HD, 2.7 mm CP (10 pk)*	10
	TR301-1004CPX	L30396X	0002200	TR-Nozzle HD, 3.0 mm CP (10 pk)	10
	TR301-4561CPX	L3018XH	352280	TR-Nozzle, 0.8 mm HCP (10 pk)*	10
9	TR301-4562CPX	L3019XH	352281	TR-Nozzle, 1.0 mm HCP (10 pk)*	10
Ů	TR301-6809CPX	L30361XH	352282	TR-Nozzle, 1.2 mm HCP (10 pk)*	10
10	TR301-7497CPX	L3020XH	352283	TR-Nozzle HD, 1.4 mm HCP (10 pk)*	10
	TR301-0014HCPX	L30258XH	55LE00	TR-Nozzle HD, 1.4 mm HCP (10 pk)	10
	TR301-7501CPX	L3021XH	352284	TR-Nozzle HD, 1.7 mm HCP (10 pk)*	10
11	TR301-0002CPX	L30168XH	237502, 1253212	TR-Nozzle HD, 2.0 mm HCP (10 pk)*	10
••	TR301-6933CPX	L3076XH	352285	TR-Nozzle HD, 2.3 mm HCP (10 pk)*	10
	TR301-2742CPX	L30360XH	352286	TR-Nozzle HD, 2.7 mm HCP (10 pk)*	10

^{*} Centricut parts available in single packs. To order single packs, remove the 'X' at the end of the part number (e.g. TR355-0005X would be TR355-0005).

For Esse A parts available in single packs. To order single packs, remove the '30' after the L in the part number (e.g. L30640 would be L640).

** 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 Hypertherm. Hypertherm purchases other brands of PTFE from various high quality manufacturers.





	Centricut part number	Esse A part number	Reference number	Description	Pkg qty
1	TR301-4485	AL70	234485	TR-Breakaway plate	1
2	TR301-0432	AL108	254493, 260432	TR-Nozzle holder, ceramic	1
3	TR301-4496	AL36	254496	TR-Cover, PTFE**	1
	TR301-6153	AL47	256153	TR-Cover, PTFE** (white)	1
4	TR301-6153T	AL347	955826	TR-Cover, PTFE** (black)	1
5	TR301-5286	AL41	225286	TR-Cover, PTFE**	1
	TR301-7773	L1550	1277773	TR-Nozzle, 0.8 mm	1
	TR301-7771	L1551	1277771	TR-Nozzle, 1.0 mm	1
	TR301-7774	L1552	1277774	TR-Nozzle, 1.2 mm	1
	TR301-7776	L1553	1277776	TR-Nozzle, 1.4 mm	1
6	TR301-7779	L1554	1277779	TR-Nozzle, 1.7 mm	1
	TR301-7780	L1555	1277780	TR-Nozzle, 2.0 mm	1
	TR301-7781	L1556	1277781	TR-Nozzle, 2.3 mm	1
	TR301-7782	L1557	1277782	TR-Nozzle, 2.7 mm	1



Replacement parts suitable for:

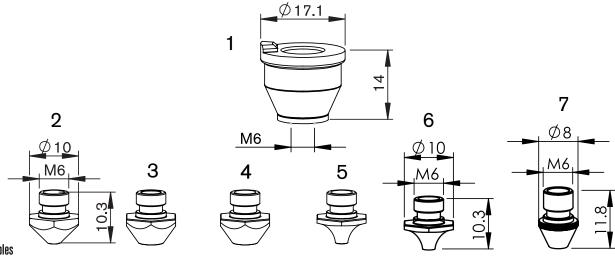
Trumpf®

	Centricut	Esse A	Reference		Pkg
	part number	part number	number	Description	qty
7	TR301-7872X	L30495	237872	TR-Nozzle shower, 0.8 mm (10 pk)	10
	TR355-0005X	L30640		TR-Nozzle double, 0.8 mm (10 pk)*	10
	TR355-0001X	L30641		TR-Nozzle double, 1.0 mm (10 pk)	10
	TR355-0006X	L30648		TR-Nozzle double, 1.2 mm (10 pk)*	10
	TR355-0002X	L30642		TR-Nozzle double, 1.4 mm (10 pk)*	10
8	TR355-0003X	L30643		TR-Nozzle double, 1.7 mm (10 pk)*	10
0	TR355-0007X	L30644		TR-Nozzle double, 2.0 mm (10 pk)*	10
	TR355-0004X	L30645		TR-Nozzle double, 2.3 mm (10 pk)*	10
	TR355-0008X	L30646		TR-Nozzle double, 2.7 mm (10 pk)	10
	TR355-0009X	L30647		TR-Nozzle double, 3.0 mm (10 pk)	10
	TR355-0007CPX	L30644X		TR-Nozzle double, 2.0 mm CP (10 pk)	10
	TR412-0014X	L30182		TR-Nozzle HD, 1.4 mm (10 pk)	10
9	TR412-0017	L227		TR-Nozzle HD, 1.7 mm	1
	TR301-0001X	L30313		TR-Nozzle HD, 2.3 mm (10 pk)*	10
10	TR412-1014CPX	L301034X		TR-Nozzle HD, 1.4 mm CP (10 pk)	10
10	TR412-1023CP	L720X		TR-Nozzle HD, 2.3 mm CP	1

^{*} Centricut parts available in single packs. To order single packs, remove the 'X' at the end of the part number (e.g. TR355-0005X would be TR355-0005). For Esse A parts available in single packs. To order single packs, remove the '30' after the L in the part number (e.g. L30640 would be L640).

^{**} 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 Hypertherm. Hypertherm purchases other brands of PTFE from various high quality manufacturers.





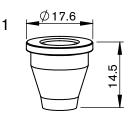
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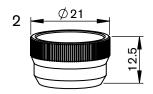
	Centricut	Esse A	Reference		Pkg
	part number	part number	number	Description	qty
1	TR302-2406 Recommended	AL653	280408, 092405, P0494-752-00001, 6930300016	TR-Nozzle holder KT M1.5" KN	1
	TR302-2405	AL53	280408, 092405, P0494-752-00001, 6930300016	TR-Nozzle holder KT M1.5" KN OEM	1
	TR302-6939X	L40211	226939	TR-Nozzle, 1.0 mm (10 pk)*	10
2	TR302-6940X	L40215	226940	TR-Nozzle HD, 1.4 mm (10 pk)*	10
	TR302-7144X	L40216	227144	TR-Nozzle HD, 1.7 mm (10 pk)*	10
3	TR302-7364X		237364	TR-Nozzle shower, 1.0 mm (10 pk)*	10
	TR302-4230X	L401150	135420, 1354230	TR-Nozzle EBD, 0.8 mm (10 pk)*	10
	TR302-2334X	L40255	212334	TR-Nozzle EBD, 1.0 mm (10 pk)*	10
	TR302-0008CPX	L401150X	135420, 1354230	TR-Nozzle EBD, 0.8 mm CP (10 pk)	10
	TR302-2334CPX	L40255X	212334	TR-Nozzle EBD, 1.0 mm CP (10 pk)	10
	TR302-0009X	L401151		TR-Nozzle EBD HD, 0.8 mm (10 pk)	10
	TR302-0004X	L40270		TR-Nozzle EBD HD, 1.0 mm (10 pk)*	10
	TR302-6199X	L40256	216199	TR-Nozzle EBD HD, 1.4 mm (10 pk)*	10
	TR302-5213X	L40257	225213	TR-Nozzle EBD HD, 1.7 mm (10 pk)*	10
4	TR302-7009X	L401147	1487009	TR-Nozzle EBD HD, 2.0 mm (10 pk)*	10
4	TR302-6156X	L40277	126156	TR-Nozzle EBD HD, 2.3 mm (10 pk)*	10
	TR302-6125X	L401149		TR-Nozzle EBD HD, 2.5 mm (10 pk)	10
	TR302-0027X	L401152		TR-Nozzle EBD HD, 2.7 mm (10 pk)	10
	TR302-0009CPX	L401151X		TR-Nozzle EBD HD, 0.8 mm CP (10 pk)	10
	TR302-0004CPX	L40270X		TR-Nozzle EBD HD, 1.0 mm CP (10 pk)	10
	TR302-6198X	L401154	1479581	TR-Nozzle EBD HD, 1.2 mm (10 pk)*	10
	TR302-6199CPX	L40256X	216199	TR-Nozzle EBD HD, 1.4 mm CP (10 pk)	10
	TR302-5213CPX	L40257X	225213	TR-Nozzle EBD HD, 1.7 mm CP (10 pk)*	10
	TR302-6156CPX	L40277X	126156	TR-Nozzle EBD HD, 2.3 mm CP (10 pk)	10
	TR302-5320X	L40625		TR-Nozzle, 1.0 mm (10 pk)	10
5	TR302-5318X	L40628		TR-Nozzle HD, 1.4 mm (10 pk)*	10
	TR302-0017X	L40629		TR-Nozzle HD, 1.7 mm (10 pk)*	10
	TR302-5320X	L40267	135320	TR-Nozzle, 1.0 mm (10 pk)	10
6	TR302-5318X	L40268	135318	TR-Nozzle HD, 1.4 mm (10 pk)*	10
	TR302-0017X	L40269	126157	TR-Nozzle HD, 1.7 mm (10 pk)*	10
	TR302-1409X	L402122	2241409	TR-Nozzle EBC, 2.0 mm (10 pk)	10
	TR302-5524X	L402123	2085524	TR-Nozzle EBC, 2.6 mm (10 pk)	10
7	TR302-1406X	L402121	2241406	TR-Nozzle EBC X31, 1.6 mm (10 pk)	10
	TR302-1407X	L402119	2241407	TR-Nozzle EBC X12, 1.8 mm (10 pk)	10
	TR302-1524X	L402124	2241524	TR-Nozzle EBC X35, 2.6 mm (10 pk)	10

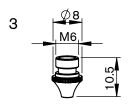
^{*} Centricut parts available in single packs. To order single packs, remove the 'X' at the end of the part number (e.g. TR302-4230X would be TR302-4230).

For Esse A parts available in single packs. To order single packs, remove the 'X' at the end of the part number (e.g. TR302-4230X would be TR302-4230).

For Esse A parts available in single packs. To order single packs, remove the 'X' at the end of the part number (e.g. TR302-4230X would be TR302-4230).



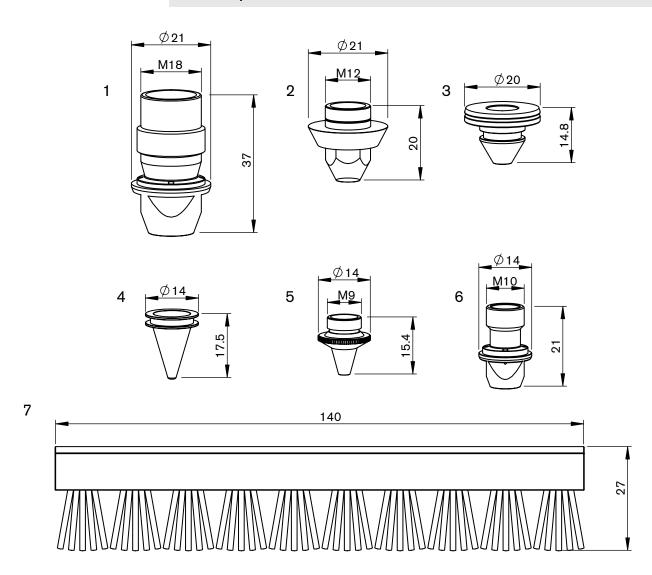




	Centricut part number	Esse A part number	Reference number	Description	Pkg qty
	TR302-0354 (not shown)	AL389	960354	TR-Insulating, PTFE**	1
	TR302-6678 Recommended	AL212	936678, 913966/00-W0, 2509767	TR-Nozzle holder, ceramic	1
'	TR302-66780EM		936678, 913966/00-W0	TR-Nozzle holder, ceramic OEM	1
2	TR352-3965	AL254	913965	TR-Retainer nut	1
	TR302-8206X	L40745	958206	TR-Nozzle, 0.25 mm (10 pk)*	10
	TR352-3799X	L40500	913799	TR-Nozzle EBG HD, 0.8 mm (10 pk)*	10
	TR352-3800X	L40501	913800	TR-Nozzle EBG HD, 1.0 mm (10 pk)*	10
	TR352-7034X	L40498	1487034	TR-Nozzle EBG HD, 1.2 mm (10 pk)*	10
	TR352-3801X	L40502	913801	TR-Nozzle EBG HD, 1.4 mm (10 pk)*	10
	TR352-7988X	L40503	937988	TR-Nozzle HD, 1.7 mm (10 pk)*	10
	TR352-7991X	L40499		TR-Nozzle HD, 1.75 mm (10 pk)*	10
3	TR352-7990X	L40508	1487036	TR-Nozzle HD, 2.0 mm (10 pk)*	10
	TR352-7989X	L40504	937989	TR-Nozzle EBF HD, 2.3 mm (10 pk)*	10
	TR352-3800CPX	L40501X	913800	TR-Nozzle EBG HD, 1.0 mm CP (10 pk)*	10
	TR352-7034CPX	L40498X	1487034	TR-Nozzle EBG HD, 1.2 mm CP (10 pk)*	10
	TR352-3801CPX	L40502X	913801	TR-Nozzle EBG HD, 1.4 mm CP (10 pk)*	10
	TR352-7988CPX	L40503X	937988	TR-Nozzle HD, 1.7 mm CP (10 pk)*	10
	TR352-7990CPX	L40508X		TR-Nozzle HD, 2.0 mm CP (10 pk)*	10
	TR352-7989CPX	L40504X	937989	TR-Nozzle EBF HD, 2.3 mm CP (10 pk)*	10

^{*} Centricut parts available in single packs. To order single packs, remove the 'X' at the end of the part number (e.g. TR302-4230X would be TR302-4230). For Esse A parts available in single packs. To order single packs, remove the '40' after the L in the part number (e.g. L401150 would be L1150).

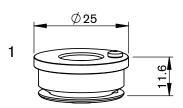
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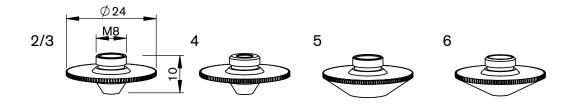


	Centricut part number	Esse A part number	Reference number	Description	Pkg
-		•			qty
	TR352-0783	L1186	220783	TR-Nozzle welding M18	ı
2	TR352-2530CP	L1010X	932530	TR-Nozzle, 4.5 mm CP	1
	TR303-2952	L5	202952	TR-Nozzle, 0.8 mm	1
3	TR303-0969	L34	218969	TR-Nozzle, 1.0 mm	1
	TR303-7953	L36	217953	TR-Nozzle HD, 1.7 mm	1
,	TR414-0008	L507	12-11-16-00	TR-Nozzle YAG w/o-ring, 0.8 mm	1
4	TR414-0012	L505	12-11-09-17/00	TR-Nozzle YAG w/o-ring, 1.2 mm	1
	PT344-1813X	L30405	281813, P0589-424-00008	PT-Nozzle, 0.8 mm (10 pk)*	10
	PT344-1789X	L30406	281789, P0589-426-00010	PT-Nozzle, 1.0 mm (10 pk)*	10
5	PT344-1561X	L30404	281561, 778550, P0589-425-00012	PT-Nozzle, 1.2 mm (10 pk)*	10
	PT344-1499X	L30407	281814, 149957	PT-Nozzle, 1.5 mm (10 pk)*	10
	PT344-0020X	L30408	P0589-428-00020	PT-Nozzle, 2.0 mm (10 pk)	10
6	TR352-4947	L1185	924947	TR-Nozzle welding M10	1
7	TR301-3202	AL272	0353202, 900594	TR-Brush	1

^{*} Centricut parts available in single packs. To order single packs, remove the 'X' at the end of the part number (e.g. TR355-0005X would be TR355-0005). For Esse A parts available in single packs. To order single packs, remove the '30' after the L in the part number (e.g. L30640 would be L640).







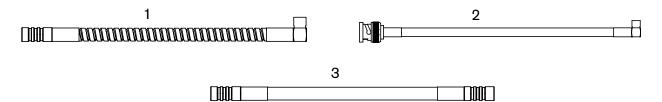
	Centricut part number	Esse A part number	Reference number	Description	Pkg qty
1	TR301-8809	AL38	258809, 243839, 247894	TR-Nozzle holder, ceramic	1
'	TR301-88090EM	AL400	258809	TR-Nozzle holder, ceramic OEM	1
2	TR301-5780X	L3002	215780	TR-Nozzle, 0.8 mm (10 pack)	10
3	TR301-8894X	L3001	088894	TR-Nozzle HD, 1.4 mm (10 pk)*	10
٥	TR301-7867X	L3012	217867	TR-Nozzle HD, 1.7 mm (10 pk)*	10
4	TR412-0014X	L30182		TR-Nozzle HD, 1.4 mm (10 pk)	10
4	TR412-0017	L227		TR-Nozzle HD, 1.7 mm	1
5	TR301-8893X	L3013	088893	TR-Nozzle, 1.5 mm (10 pk)	10
J	TR301-1781X	L3068	221781	TR-Nozzle, 2.0 mm (10 pk)	10
6	TR301-7872X	L30495	237872	TR-Nozzle shower, 0.8 mm (10 pk)	10

^{*} Centricut parts available in single packs. To order single packs, remove the 'X' at the end of the part number (e.g. TR355-0005X would be TR355-0005). For Esse A parts available in single packs. To order single packs, remove the '30' after the L in the part number (e.g. L30640 would be L640).



Replacement parts suitable for:

Trumpf®



	Centricut part number	Esse A part number	Reference number	Description	Pkg qty
1	TR301-9983	AL642	342474, 359983	TR-Sensor cable, 190 mm (7.5") armored	1
2	TR301-7833	AL641	227833	TR-Sensor cable, 432 mm (17")	1
3	TR301-0930	AL640	280930	TR-Sensor cable, 152 mm (6") armored	1

Sensor cones



Centricut sensor cones provide substantial cost savings without sacrificing performance or quality

- Available for Amada, Mazak, Mitsubishi and Precitec
- Delivers the same OEM performance at a lower cost
- Unmatched performance and reliability
- Engineered and manufactured to Hypertherm's precise quality standards
- Backed by our one-year warranty and 100% satisfaction guarantee

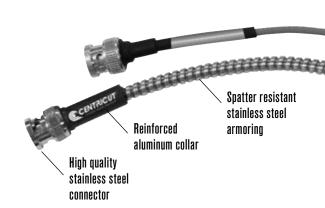
Centricut	Esse A		Reference	
part number	part number	OEM	number	Description
AM343-0091	AL600	Amada	71360091	AM-Sensor cone, HS95 mini
AM343-1621*	AL601	Amada	71341621	AM-Sensor cone, HS95
AM343-9107	AL603	Amada	ECO cone	AM-Sensor cone, ECO
AM343-1690	AL602	Amada	71341690	AM-Sensor cone, HS98
AM343-L3015C	AL550	Amada	71374509	PT-Sensor cone, LC3015
AM343-4233B*	AL551	Amada	71564233	AM-Sensor cone, HPL Black
AM343-4233G*	AL552	Amada	71564233	AM-Sensor cone, HPL Gold
PT347-3323	AL611	Mazak	HNP	PT-Sensor cone, HNP
MZ335-HNPS*	AL605	Mazak	HNPS	MZ-Sensor cone, HNP short version
PT347-0007		Mazak	56743300500	PT-Sensor cone, HNZ (Mazak)
PT347-0011*	AL607	Mitsubishi	P0354-110-00002	PT-Sensor cone, HNZ (Mitsubishi)
MB334-W429A	AL604	Mitsubishi	P0461-270-00001	MB-Sensor cone, W429A
PT347-0238*	AL608	Precitec	BQ930D238G01	PT-Sensor cone, HNZ SMA
PT347-8001	AL612	Precitec	P0361-203-00001	PT-Sensor cone, 2.5Z/J
PT347-0522*	AL609	Precitec	P0599-520-00002	PT-Sensor cone, LRC
PT347-1145	AL610	Precitec	P0380-140-0002, P0380-130-00001, 281145	PT-Sensor cone, DZ

^{*}Sensor cone repair service is available for most sensor cones in North America and select international regions. For more information contact Ctlaser@Hypertherm.com.

Armored sensor cables

Centricut armored sensor cables outlast standard OEM cables

- Available for all major brands
- Robust design with extreme temperature rating (900–1200°)
- Longer life reduces downtime and production loss
- Spatter resistant stainless steel armoring
- Reinforced collars and high-quality connector



Armored sensor cables

Centricut	Esse A		Reference	
part number	part number	OEM	number	Description
AM308-8965	AL260	Amada	71398965	AM-Sensor cable, 305 mm (12")
AM308-8965A	AL613	Amada	71398965	AM-Sensor cable, 305 mm (12") armored
AM313-1901	AL200	Amada	71341630	AM-Sensor cable HS-5, 305 mm (12")
AM313-1901A		Amada	71341630	AM-Sensor cable HS-5, 305 mm (12") armored
AM313-8292	AL615	Amada	71398292	AM-Sensor cable dual shield, 7 m (275.6")
AM313-9851A		Amada	71369851	AM-Sensor cable, 203 mm (8") armored
CN306-0654A	AL616	Cincinnati	909654, 922686	CN-Sensor cable, 114 mm (4.5") armored
CN306-0951A	AL617	Cincinnati	842951	CN-Sensor cable, 140 mm (5.5") armored
CN306-2951	AL618	Cincinnati	842951, PLTTW0015	CN-Sensor cable, 140 mm (5.5")
CN306-9654	AL619	Cincinnati	909654, 922686, PLTTW0002	CN-Sensor cable, 114 mm (4.5")
MZ335-0111A	AL620	Mazak	4674330111	MZ-Sensor cable, 280 mm (11") armored
MZ335-0181A	AL621	Mazak	46743300181	MZ-Sensor cable, 317.5 mm (12.5") armored
MZ335-1330A	AL622	Mazak	46683301330	MZ-Sensor cable, 305 mm (12") armored
MZ335-1980A	AL643	Mazak	46683301980	MZ-Sensor cable, 280 mm (11") armored
MZ335-5320	AL105	Mazak	6143355320	MZ-Sensor cable, 61.5 mm (2.4") armored
MZ335-630A	AL623	Mazak	OOBSBA63OMNC	MZ-Sensor cable, 630 mm (25") armored
MZ335-8290	AL368	Mazak	46143308290	MZ-Sensor cable, 75 mm (3")
NT426-1682	AL624	NTC	4R029911-001, J482D	NT-Sensor cable, 216 mm (8.5")
NT426-4991	AL625	NTC	3-0104991	NT-Sensor cable 0-0BNC/MCX, 482 mm (19")
NT426-7492	AL626	NTC	3-0117492	NT-Sensor cable 90BNC/90BNC, 482 mm (19")
NT426-8677	AL627	NTC	4R028677-001	NT-Sensor cable, 508 mm (20") armored
PR361-3150	AL628	Prima	820.63.150	PR-Sensor cable, 150 mm (5.9")
PR361-3151	AL629	Prima	820.63.150	PR -Sensor cable, 150 mm (6") high profile
PR361-3160	AL560	Prima	555.63.150	PR-Sensor cable, 210 mm (8 17/64")
PT347-0101A	AL633	Precitec	P0360-100-00500	PT-Sensor cable, 500 mm (20") armored
PT347-0181	AL358	Precitec	46743300181	PT-Sensor cable, 305 mm (12") armored
PT347-0300A	AL635	Precitec	P0492-014-00300	PT-Sensor cable KE, 300 mm (11.8") armored
PT347-0450		Precitec	P0497-002-00450	PT-Sensor cable, 450 mm (17.7")
PT347-KS13	AL639	Precitec/ Gunkyo	00BMTKA-A-HS500mm	PT-Sensor cable, 390 mm (15.5") armored
PT347-1250	AL637	Precitec	D5001-040-00250	PT-Sensor cable, 250 mm (9.8") armored
TR301-0930	AL640	Trumpf	280930	TR-Sensor cable, 152 mm (6") armored
TR301-7833	AL641	Trumpf	227833	TR-Sensor cable, 432 mm (17")
TR301-9983	AL642	Trumpf	359983, 342474	TR-Sensor cable, 190 mm (7.5") armored

Lens cleaning tips



Centricut supplies suitable for all OEM CO₂ and fiber laser lenses

- Lens maintenance base is designed to secure a wide range of optics sizes for the cleaning process
- Centricut optical cleaning fluid is a safe, economical alternative to traditional high-purity and reagent-grade solvents
- Cleaning materials suited for all lens cleaning needs; lens paper, polyester swabs and polyester wipes

Lens paper

Recommended for the routine maintenance cleaning of flat lenses.

Polyester swabs

Recommended for cleaning curved lenses and where a more aggressive cleaning is required (interchangeable with polyester wipes).

Polyester wipes

Recommended for cleaning CO₂ and fiber lenses and windows (interchangeable with polyester swabs and lens paper).

Product description	Part number	Quantity per order
Optical cleaning fluid (3 oz.)	TR300-1112	1
Lens cleaning swab	TR300-0699	25
Lens cleaning paper, Tiffen	TR300-6452	50
Polyester wipes 4" x 4"	TR300-7991	100
Base, lens maintenance	TR300-271	1

Lens paper

Recommended for the routine maintenance cleaning of flat lenses.

You will need:

- Lens maintenance base (lens holder)
- Optical cleaning fluid
- Air bulb
- Lint-free lens paper
- Latex or rubber gloves



To get started

Using rubber gloves, place the lens in the lens holder and remove all loose contaminants with an air bulb. When contaminants are no longer visible, begin the cleaning process.



Step 1

Place lens paper over the optic, covering it completely.



Step 2

Apply a couple drops of lens cleaning fluid to the lens paper (far side of the lens).



Sten 3

Slowly pull the lens paper across the lens so the cleaning fluid comes in contact with the entire lens surface. Finish pulling the paper across so all of the fluid has dried from the lens.



Step 4

Inspect the surface of the lens for dust and cleaning residue using a flashlight. Examine the lens from different angles. Repeat the process on the other side of the lens.

Final sten:

Place the cleaned lens in the machine quickly to avoid contamination from airborne particles. If spots, pits, or scratches are still noticeable, the lens may need to be replaced.

Polyester swabs

Recommended for cleaning curved lenses and where more aggressive cleaning is required. Interchangeable with polyester wipes.

You will need:

- Lens maintenance base (lens holder)
- Optical cleaning fluid
- Air bulb
- Polyester swabs
- Latex or rubber gloves



To get started

Using rubber gloves, place the lens in the lens holder and remove all loose contaminants with an air bulb. When contaminants are no longer visible, begin the cleaning process.



Step 1

Place a few drops of the optical cleaning fluid onto the swab.



Step 2

Move the larger dirt particles and then finer contaminants to the edge of the lens using the swab. Do not rest the swab on the lens or on the work table. Do not reuse swabs.



Step 3

Inspect the surface of the lens for dust and cleaning residue using a flashlight. Examine the lens from different angles. Repeat the process on the other side of the lens.

Final step:

Place the cleaned lens in the machine quickly to avoid contamination from airborne particles. If spots, pits, or scratches are still noticeable, the lens may need to be replaced.

Polyester wipes

Recommended for cleaning CO_2 and fiber lenses and windows. Interchangeable with polyester swabs and lens paper.

You will need:

- Lens maintenance base (lens holder)
- Optical cleaning fluid
- Air bulb
- Polyester wipes
- Latex or rubber gloves



To get started

Using rubber gloves, place the lens in the lens holder and remove all loose contaminants with an air bulb. When contaminants are no longer visible, begin the cleaning process.



Step 1

Place a few drops of the optical cleaning fluid onto the polyester wipe



Step 2

Place the wipe with the wet side down on the lens and slide it across the lens, applying light pressure to the top of the wipe. Avoid contamination to the wipe and do not reuse wipes.



Step 3

Inspect the surface of the lens for dust and cleaning residue using a flashlight. Examine the lens from different angles. Repeat the process on the other side of the lens.

Final step:

Place the cleaned lens in the machine quickly to avoid contamination from airborne particles. If spots, pits, or scratches are still noticeable, the lens may need to be replaced.

Steps to help optimize cut quality.

Striation marks, angularity and dross tell the story.

Optimizing CO₂ and fiber lasers to achieve maximum cut quality is a very important step in the overall cutting process. The critical points that produce good cuts are the width of the kerf (the material that is lost during the cut), oxidation and roughness of the cut surface, the geometry of the cut parts and the allowable tolerances. Some factors to be considered are the cut speed or 'feed rate', beam focus, gas pressure, standoff and nozzle size/ type.

Factory cut chart settings

The following samples show 12 mm, 6 mm and 3.2 mm (1/2", 1/4" and 10 ga.) mild steel, cut with O_2 on a 2 kW fiber laser with one variable changed to show how cut quality is affected. The adjustments will be similar for all CO_2 and fiber laser, cutting mild steel with O_2 .

Is the kerf too narrow?

When the kerf is too narrow the cut will have a very smooth edge on the top, a lack of oxidation on the bottom and/or heavy dross.

Probable causes:

- Focus is too low
- Feed rate is too fast
- Gas pressure is too low
- Nozzle size is too small
- Standoff is too low

Is the kerf too wide?

When the kerf is too wide the cut will have a rougher edge, more self burning in the corners of the part, more angularity on the cut edge and occasionally, dross.

Probable causes:

- Focus is too high
- Feed rate is too slow
- Gas pressure is too high
- Nozzle size is too big
- Standoff is too high
- Incorrect nozzle type

Follow these steps to optimize cut quality:

- 1. Use the closest known settings for the material being cut.
- 2. Use a test part that has both interior and exterior features.
- 3. Verify that the lens and/or window is clean and in good condition.
- 4. Verify that the nozzle is centered properly and is in good condition.
- 5. Adjust the focus up and down until the cut quality starts to get bad and then set to the middle of that range.
- 6. Adjust the gas pressure up and down until the cut starts to get bad and then set to the middle of that range.
- 7. Adjust the federate up by 5% increments. When the cut starts to get bad, set the feed rate 10% slower.

Strike a balance between heat levels and gas flow

Cutting mild steel with a laser is a balance of how much material is heated by the laser beam and how much assist gas flows through the cut.

- Heating up too small of an area, or not having enough assist gas flow through the cut will result with the kerf (width of the cut) being too narrow.
- Heating up too large of an area or having too much assist gas flow through the cut will result in the kerf being too wide.

3.2 mm (10 ga.) mild steel cut resulting in too narrow kerf

Factory cut chart settings



3.2 mm (10 ga.) mild steel cut resulting in too wide kerf



Factory cut chart settings

Focus is too low

The kerf is too narrow and doesn't allow enough O₂ into the cut to remove all the molten material.

Feed rate is too fast The cut striations are



Focus is too high

The laser is melting more material than can be removed from the cut.





Feed rate is too slow

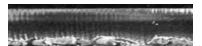
The cut surface is too rough and productivity is decreased.



trailing the direction of

cutting and there is not enough time to remove all the molten material.

There is not enough O₂ to remove all the molten material.



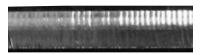


Gas pressure is too high

Too much O₂ results in overheating of the cut and causes intermittent gouges.



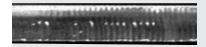
The focus spot is in the wrong location, causing the rough edge.





Stand off is too high

The laser is melting more material than can be removed from the cut.



Nozzle size is too big

Too much O2 results in overheating of the cut and causes intermittent gouges.

Cut direction

Cut direction

^{*}Above samples have been cut with O₂ on 2 kW fiber laser. Results will be similar for CO₂ laser cutting mild steel with O₂.

6 mm (1/4") mild steel cut resulting in too narrow kerf

Factory cut chart settings



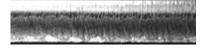
6 mm (1/4") mild steel cut resulting in too wide kerf



Factory cut chart settings

Focus is too low

The kerf is too narrow and doesn't allow enough O₂ into the cut to remove all the molten material.



Focus is too high

The wider focus spot is letting too much O_2 into the cut and burning the material.

Feed rate is too fast

The cut striations are trailing the direction of cutting and there is not enough time to remove all the molten material.



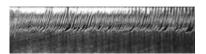
Material and Market Printer

Feed rate is too slow

The cut surface is too rough and productivity is decreased.

Gas pressure is too low

There is not enough O₂ to remove all the molten material.



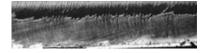


Gas pressure is too high

Too much O₂ is entering the cut, causing a rougher edge and inconsistent cutting.



The focus spot is in the wrong location, causing the rough edge.



Stand off is too high

Too much O₂ is entering the cut, causing a rougher edge and inconsistent cutting.

Nozzle size is too small

There is not enough O₂ to cut uniformly.





Nozzle size is too big

Too much O₂ results in overheating of the cut and causes intermittent gouges.



Nozzle type is incorrect

The shape of the gas flow is incorrect, causing a rougher edge.

Cut direction

Cut direction

^{*}Above samples have been cut with O₂ on 2 kW fiber laser. Results will be similar for CO₂ laser cutting mild steel with O₂.

12 mm (1/2") mild steel cut resulting in too narrow kerf

Factory cut chart settings



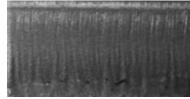


Factory cut chart settings

Focus is too low

The kerf is too narrow and doesn't allow enough O_2 into the cut to remove all the molten material.





Stand off is too low

The kerf is too narrow to allow enough O_2 into the cut. The oxidation is not covering the entire surface and cutting will be inconsistent.

Feed rate is too fast

The machine is moving too fast to allow enough O_2 into the cut for consistent cutting.





Nozzle size is too small

There is not enough O₂ to cut uniformly.

Gas pressure is too low

The pressure is too low to allow enough O_2 into the cut. The oxidation is not covering the entire surface and cutting will be inconsistent.



Cut direction Cut direction

*Above samples have been cut with O_2 on 2 kW fiber laser. Results will be similar for CO_2 laser cutting mild steel with O_2 .

12 mm (1/2") mild steel cut resulting in too wide kerf

Factory cut chart settings



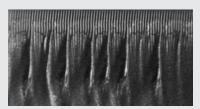


Factory cut chart settings

Focus is too high

Too much O2 is entering the cut causing intermittent over burning.

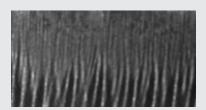




Stand off is too high Too much O₂ is entering the cut resulting in intermittent over burning.

Feed rate is too slow

The machine is moving too slow resulting in the over burning of the bottom half of the cut. The slower feed rate also reduces productivity.





Incorrect nozzle type

Gas pressure is too high

Too much O₂ is entering the cut resulting in intermittent over burning.



The gas flow shape is not correct resulting in inconsistent cutting.

Cut direction

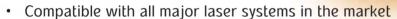
Cut direction

*Above samples have been cut with O₂ on 2 kW fiber laser. Results will be similar for CO₂ laser cutting mild steel with O₂.



DURALENS

High Quality Lenses for High Power CO₂ Lasers



- · Approved and used by leading OEMs
- Designed for high durability and accuracy
 - Manufactured by automated CNC technology to assure complete uniformity
- · Manufactured according to the highest precision specifications
 - Absorption ≤ 0.2%
- · All manufucturing is done in-house

Established in 1976, Ophir Optronics is a global leader in precision IR optics components and laser measurement equipment.

Our CO₂ Optics Group produces a full range of OEM and replacement optics including beam-delivery and cavity optics as well as windows.

Ophir provides the highest quality CO₂ optics at the best price.

Our commitment to the customer is second to none, with a global distribution and support network. This unwavering commitment to forward thinking helps keep us "A Cut Above the Rest".





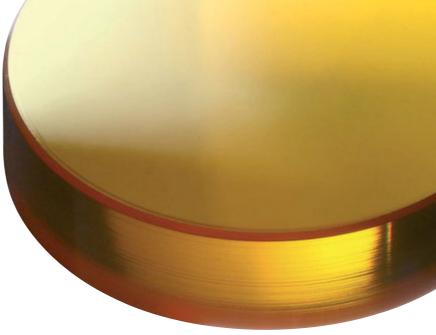
A Cut Above The Rest

Ophir's **DURALENS**™ lenses are available worldwide.

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Transparent Black Magic[™] Lens Ultra Low Absorption Guaranteed < 0.13%

- Best Focus Stability
- Increased Durability
- Recommended for High Power Lasers over 5KW
- Best Surface Quality

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Low Absorption Lenses for High Power CO₂ Lasers

- Guaranteed absorption <0.15% constant throughout the lens lifetime
 - Maximum focus stability
- · Toughest coating in the industry. Remarkable Durability
 - Best ability to withstand back spatter
 - Easier to clean and maintain
 - Resistant to humidity
- Recommended and approved by leading OEMs
 - Used for all high powered CO₂ lasers including those over 5KW
- Radioactive free coating
- · Excels in cutting aluminum and stainless steel
- Best cost-benefit ratio

Established in 1976, Ophir Optronics is a global leader in precision IR optics components and laser measurement equipment.

Our CO_2 Optics Group produces a full range of OEM and replacement optics including beam-delivery and cavity optics as well as windows. Ophir provides the highest quality CO_2 optics at the best price.

Ophir Optics is dedicated to providing their customers superior OEM quality products, global distribution and a support network. Our unwavering commitment to forward thinking keeps us "A Cut Above the Rest."



A Cut Above The Rest

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Ophir & Centricut by Talas = 100% Kwaliteitsgarantie & 100% OEM compatibiliteitsgarantie.

Talas is exclusief verdeler van o.a. lenzen & spiegels van **Ophir** voor BeLux en nozzles & ceramieken van **Centricut/Hypertherm** waardoor wij zeer competitieve tarieven hebben. Deze fabrikanten zijn tevens ook leverancier van de grootste fabrikanten(OEM) van lasersnijmachines.

Ophir, een CO² Optica groep en tweede grootste leverancier in de wereld is producent van het volledige gamma optieken voor de OEM en de vervangingsmarkt.

Ophir fabriceert lenzen met verschillende coatings voor een lagere absorptie en voor een langere levensduur:

- -**Duralens**: max. absorptie ≤0,2%; standaard gele lens.
- -Black Magic: max. absorptie <0,15%; niet transparante, niet-radioactieve harde coating voor een stabieler focuspunt en hogere warmte geleiding, vochtbestendige coating.
- -Clear Magic: max. absorptie <0,13%; transparante, harde coating voor de beste focus stabiliteit en hoogste warmtebestendigheid, PMS-compatibel, vochtbestendige coating.

Centricut/Hypertherm nozzles in een kopertellurium legering, vervaardigd op CNC met diamanten werktuigen, gegarandeerd braamloze bewerking, optimale warmteweerstand, constante aeleidina, verspanende tolerantie en concentriciteit <0.01mm, zeer fijn afgewerkt binnenoppervlak voor een goede doorstroming van het gas en buitenafwerking tegen de hechting van de gesmolten materie, verchroomde nozzles vermijden hechting van de gesmolten materie, dubbele nozzles voor een betere kwaliteit en hogere snijsnelheid voor staal vanaf 8mm, lasermarkering van de diameter.

Ophir & Centricut by Talas = garantie à 100% de qualité et 100% de garantie compatibilité OEM

Talas est le distributeur exclusif de e.a. les lentilles et les miroirs de **Ophir** pour le BeLux et des buses & des céramiques de <u>Centricut/Hypertherm</u>. De ce fait nous avons des tarifs très compétitifs. Ces fabricants sont aussi fournisseurs des plus grands fabricants (OEM) des machines de découpe au laser.

Ophir, un groupe d'optique CO ² et deuxième fournisseur en importance dans le monde, produit la gamme complète d'optiques pour l'OEM et le marché de pièces de rechange. Ophir fabrique des lentilles avec des revêtements différents pour un taux d'absorption inférieur et une durée de vie plus longue:

- - $\underline{\text{Duralens}}$: absorption maximale $\leq 0,2\%$, lentille standard jaune
- -Black Magic: absorption maximale <0,15%, non transparent, revêtement dur non radioactifs pour un point focal plus stable et une conductivité thermique plus élevée, revêtement résistant à l'humidité
- -Clear Magic: absorption maximale <0,13%, revêtement dur transparent pour la meilleure stabilité du point focal et la meilleure résistance à la chaleur, le revêtement PMS-conforme et résistant à l'humidité

<u>Centricut/Hypertherm:</u> buses dans un alliage cuivre-tellurium usinés avec outils diamant sur tours à CN, usinage garanti sans bavures, excellente résistance thermique, conductivité constante, tolérances d'usinage et de concentricité <0,01 mm, la surface intérieure finement travaillée pour une bonne fluidité du gaz et une finition extérieure lisse contre l'accrochage de la matière en fusion, buses chromées évitant l'accrochage de la matière en fusion, double buses pour une meilleure qualité et plus grande vitesse de coupe de l'acier de 8 mm, marquage au laser du diamètre.

Type of nozzle & Reasons for selecting

Adapter This means that it is possible to use a different type of nozzle as long as the nozzle adaptor is purchased. It adapts from a big nozzle to a smaller nozzle and this can save the end-user money in the long run.

CP (chrome plated) CP nozzles are plated with chrome for increased durability. Chrome plated nozzles are much easier to clean and can withstand contact with material better than non-plated nozzles.

Conical This refers to the internal geometry of the nozzle. Due to the internal geometry the gas swirls and spirals down towards the material causing a coaxial flow, this flow prevents plugging of the orifice.

Cylindrical This refers to the internal geometry of the nozzle. Mainly used for gauge steel to 6,4 mm low pressure oxygen cutting.

Double Just as it sounds, this is a nozzle within a nozzle. Sometimes referred to as a "jacketed nozzle". Double nozzles are better for cutting thicker materials. "Better" refers to cut quality more than speed. Double nozzles have a high aspect ratio at the exit helping protect lens from back spatter.

Double with holes or double nozzle insert Used with the outer nozzle; the double nozzle insert inserts into the outer nozzle to form a double.

Double hard This is a double nozzle with the hard chrome plating (this type of chrome plating is only available in North America).

Hard Hard chrome plating (only available in North America), is harder than standard chrome therefore it is more durable.

Hex Hex refers to the machined edge of the nozzle, with the hex machined in it makes it possible to get an open end wrench on the nozzle for tightening and loosening.

High pressure (HP) High density (HD) Used in applications where the gas pressures are really high, used on thicker material and stainless steel and aluminium.

Low pressure Used for low pressure oxygen cutting applications such as gauge material up to 3,2 mm.

Nozzle holder The nozzle holder sometimes also known as the ceramic is the mating partner for the nozzle; the two are combined by threading the nozzle into the holder.

Nozzle, long Refers to the length of the nozzle.

Nozzle, short Refers to the length of the nozzle.

Nozzle, w/step This refers to the internal geometry of the nozzle. Mainly used in higher pressure cutting.

Outer nozzle See double nozzle. This is the mating partner of the double nozzle insert, the two combined make a double nozzle.

Shower Used to cut thick mild steel (>6,4 mm) w/O2 assist gas. Shower nozzles have a center nozzle orifice, surrounded by several other holes. This design ensures more effective assist gas volume, without significantly increasing real volume.

Straight taper This refers to the internal geometry of the nozzle, mainly used in higher pressure cutting.

WACS Water-assist cutting system.