

2020 catalog

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





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.

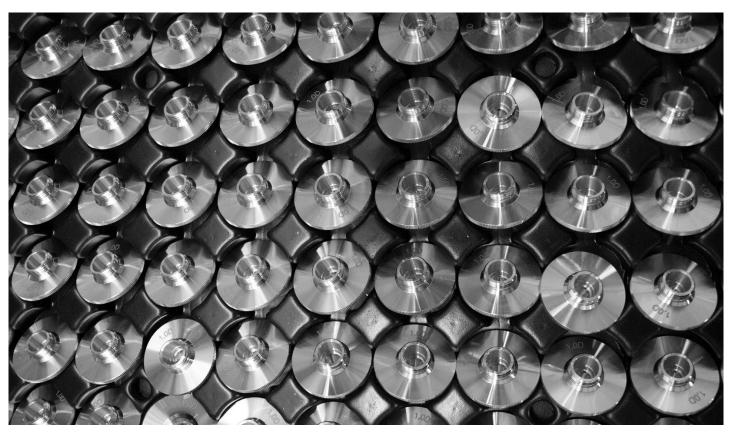
Look for CP in the part number to identify a chrome plated nozzle

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 |
| MP5 or 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 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



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 |
| 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 |
| 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 |
| MZ315-5350 | Z50SA015350, W495 | FS | 42.0 mm | 9.0 mm |
| AM313-1308 NEW | 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 thickness |
|------------------------|--|------|----------|----------|-----------------|-------------------|
| CO ₂ lenses | | | | | | |
| 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" |
| TR300-7517 | 097517, 60697, 702232, 110110, 61983 | MEN | ZNSE | 1.5" | 7.5" | .290" |
| 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, 232771, 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" |
| 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 | 1.5" | 7.5" | .236" |
| 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 | ZNSE | 1.5" | 7.5" | .310" |
| CN307-9484 | 909484, 61002, 464497, 100096, LPCZ-1.5-0.280-5.13-1007, PLLPZ0052 | PLX | ZNSE | 1.5" | 7.5"WD | .280" |
| PT317-8275 | 628275, W502A, 630736-117 | PLX | 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" |

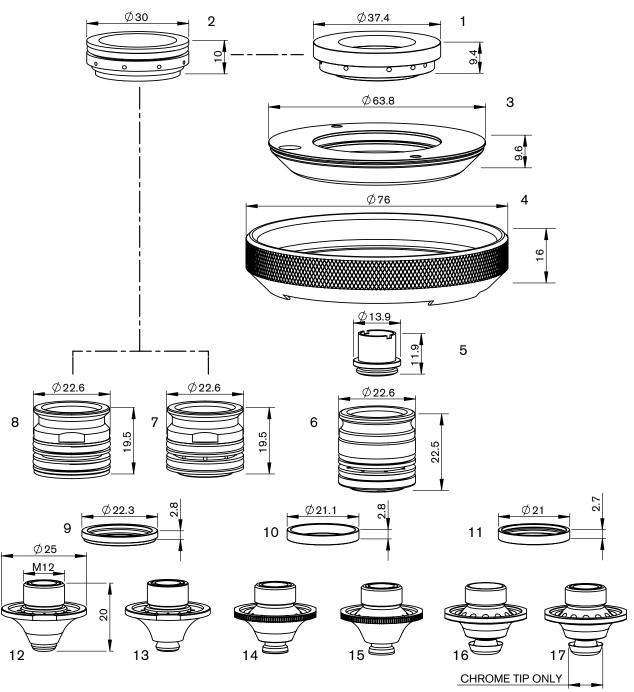
| Centricut part number | Reference number | Туре | Material | Diameter | Focal length | Edge thickness |
|------------------------------------|--|---------|----------|----------|-----------------|-------------------|
| CO ₂ lenses (continued) | | | | | | |
| MZ315-3480HA NEW | 158039, Z50ZZ013480 HIGH 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 NEW | 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" |
| ГК374-8593 | 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" |
| 3Y314-7014MP5 | 460386, 4-07014 | MEN | ZNSE MP5 | 1.5" | 10.0" | .354" |
| BY314-0186MP5 | 4-00186, 528717, 60260LA | MEN | ZNSE MP5 | 1.5" | 5.0" | .236" |
| TR300-8114MP5 | 60696LA, 312503, 29100023, 88114, PLLPZ0125B | MEN | ZNSE MP5 | 1.5" | 5.0" | .290" |
| BY314-5094MP5 | 123397, 4-07475, 60615LA, LMZ1.5-0.354-5.0-2008 | MEN | ZNSE MP5 | 1.5" | 5.0" | .354" |
| 3Y314-0187MP5 | 714512, 60602LA, 4-00187 | MEN | ZNSE MP5 | 1.5" | 7.5" | .236" |
| TR300-7517MP5 | 60697LA, 97517, 474644, PLLPZ0126B | MEN | ZNSE MP5 | 1.5" | 7.5" | .290" |
| BY314-5095MP5 | 602033, 60616LA, 4-07476, LMZ1.5-0.354-7.5-2009, PLLPZ0130B, 62710 | MEN | ZNSE MP5 | 1.5" | 7.5" | .354" |
| 3Y314-8294MP5 | 996707, 10048294 | MEN | ZNSE MP5 | 1.5" | 9.0" | .354" |
| 1W405-4913 | 114913 | MEN | ZNSE MP5 | 2.0" | 10.0" | .379" |
| 1W405-5270 | 355270 | MEN | ZNSE MP5 | 2.0" | 5.0" | .378" |
| HW405-7143 | 527143, 467572, 60698LA, 291005-5, 308332, PLLMZ0025B | MEN | ZNSE MP5 | 2.0" | 7.5" | .379" |
| MZ315-0160MP5 | 60770LA, 857048, Z50MB000160 | PLX | ZNSE MP5 | 1.5" | 5.0" | .236" |
| MZ315-0400MP5 | 106106, PLLPZ0132B, 60905LA, Z50MB000400, 62670ULA | PLX | ZNSE MP5 | 1.5" | 5.0" | .300" |
| CN307-8085MP5 | 61001LA, 794914, 908085, | PLX | ZNSE MP5 | 1.5" | 5.0"WD | .280" |
| MB312-018MP5 | 383862 | PLX | ZNSE MP5 | 1.5" | 7.5" | .300" |
| N307-9484MP5 | PLLPZ0052B | PLX | ZNSE MP5 | 1.5" | 7.5"WD | .315" |
| MB312-505MP5 | 61003LA, 922203, W505 | PLX | ZNSE MP5 | 2.0" | 5.0" | .310" |
| AM313-0307NMP5 | 81140307, 61019LA, 753010 | PLX | ZNSE MP5 | 2.0" | 5.0" | .380" |
| CN307-0211MP5 | 540211, 61019LA, 922377 | PLX | ZNSE MP5 | 2.0" | 5.0"WD | .380" |
| MB312-510MP5 | 61004LA, 635061, W510, | PLX | ZNSE MP5 | 2.0" | 7.5" | .310" |
| CN307-2376MP5 | 329011, 922376, 61515ULA, | PLX | ZNSE MP5 | 2.0" | 7.5" | .380" |
| MZ315-0520AMP5 | 392125, 61405LA, Z50ZZ000520A, PLLPZ0135B, 81140186 61405ULA | PLX | ZNSE MP5 | 2.0" | 7.5" | .380" |

| Centricut part number | Reference number | Туре | Material | Diameter | Focal length | Edge thickness |
|------------------------------------|---|---------|----------|----------|-----------------|-------------------|
| CO ₂ lenses (continued) | | | | | | |
| AM313-0306MP5 | 65024LA, 81140306, 106106, M16-15-1C-P5.0, 6936448 | PLX MTD | ZNSE MP5 | 1.5" | 5.0" | .300" |
| AM313-1216MP5 | 106106, M20-15-1C-P5.0, 6071896 | PLX MTD | ZNSE MP5 | 1.5" | 5.0" | .300" |
| AM313-9830MP5 | 71369830, 106106, 65101LA, 106106/M16-15-1C-P5.0-A2-NI-1A | PLX MTD | ZNSE MP5 | 1.5" | 5.0" | .300" |
| AM313-0400MP5 | 65025LA, 383862/M16-15-1C-P7.5-A2-NI-1A, 81140400, 383862 | PLX MTD | ZNSE MP5 | 1.5" | 7.5" | .300" |
| AM313-1215MP5 | M21-15-1C-P7.5, 383862, 6071853 | PLX MTD | ZNSE MP5 | 1.5" | 7.5" | .300" |
| AM313-9831MP5 | 65102LA, 71369831, 383862 | PLX MTD | ZNSE MP5 | 1.5" | 7.5" | .300" |
| AM313-0307MP5 | 81140307, M16-20-1C-P5.0, 753010, 65035LA, 753010M16-20-1C-P5.0 | PLX MTD | ZNSE MP5 | 2.0" | 5.0" | .380" |
| AM313-0186MP5 | 392125, 65038LA, M16-20-1C-P7.5, 81140186, 6816292 | PLX MTD | ZNSE MP5 | 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 |

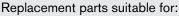




Consumables

| | Centricut part number | Esse A part number | Reference number | Description | Pkg qty |
|---|--------------------------|-----------------------|---------------------|---|------------|
| 1 | AM367-2349 | AL372 | 7973497, 71712349 | AM-Holder, PTFE*** | 1 |
| 2 | AM367-2026 | AL340 | 71502026 | AM-Holder, PTFE*** | 1 |
| 3 | AM367-2342 | AL456XH | 71712342 | AM-Cover kit | 1 |
| 4 | AM367-2341 | AL455XH | 71712341 | AM-Nut kit | 1 |
| | AM367-2344X (not shown) | AL30359 | | AM-Locating Pin (10 pk)* | 10 |
| 5 | AM367-6438X | AL30392 | 71716438, 71798350 | AM-Inner for adapter (10 pk)* | 10 |
| | AM367-0360 | AL360 | 71712350, 7973459 | AM-Nozzle adapter w/holes | 1 |
| 6 | AM367-0360V | AL20360 | 71712350, 7973459 | AM-Nozzle adapter w/holes (5 pk)* | 5 |
| 0 | AM367-0364 | AL360/AM | 71712350, 7973459 | AM-Nozzle adapter w/holes and inner | 1 |
| | AM367-0364V | AL20360/AM | 71712350, 7973459 | AM-Nozzle adapter w/holes and inner(5 pk)* | 5 |
| | AM367-0397 (not shown) | AL397 | | AM-O-ring kit for adapter (AM367-0360/0364) | 1 |

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| 8 AM367-3036 AJ.348 71502036 AM-Hozzle adapter w/12 holes | 10 10 10 1 1 1 1 1 1 1 1 1 |
| 9 AM337-10853X | 10 10 1 1 1 1 1 1 1 1 1 |
| 10 | 10 10 1 1 1 1 1 1 1 1 1 |
| 11 M386-2240X | 10 1 1 1 1 1 1 1 1 |
| May | 1 1 1 1 1 1 |
| Mail | 1 1 1 1 1 |
| AM367-1014CP L1041X 71502055 AM-Nozzle double WACS w/holes, 1.4 mm CP AM367-1017CP L1043X 71461026 AM-Nozzle double WACS w/holes, 2.5 mm CP AM367-1020CP L1044X 71461026 AM-Nozzle double WACS w/holes, 2.5 mm CP AM367-2039 L1045X 71502039, 71515850 AM-Nozzle double WACS w/holes, 2.5 mm CP AM367-2039-T L1045X/T AM-Nozzle double WACS w/holes, 2.5 mm CP (with o-ring) AM367-2040 L1049X 71502040 AM-Nozzle double WACS w/holes, 2.5 mm CP (with o-ring) AM367-2040 L1049X 71502040 AM-Nozzle double WACS w/holes, 2.5 mm CP (10 pk)* AM367-3336X L301568X L301568X L301568X AM-Nozzle double WACS, 0.1 mm CP (10 pk)* AM367-1352CPX L301352X/TG AM-Nozzle double WACS, 0.1 mm CP (10 pk)* AM367-1150CPX L301353X/TG AM-Nozzle double WACS, 0.1 mm CP (10 pk)* AM367-1150CPX L301353X/TG AM-Nozzle double WACS, 0.1 mm CP (10 pk)* AM367-1354CPX L301353X/TG AM-Nozzle double WACS, 0.2 mm CP (10 pk)* AM367-1154CPX L301354X/TG AM-Nozzle double WACS, 0.2 mm CP (10 pk)* AM367-1155CPX L301355X/TG AM-Nozzle double WACS, 0.2 mm CP (10 pk)* AM367-1156CPX L301355X/TG AM-Nozzle double WACS, 0.2 mm CP (10 pk)* AM367-1156CPX L301355X/TG 71712335 AM-Nozzle double WACS, 0.2 mm CP (10 pk)* AM367-1166CPX L301355X/TG 71712335 AM-Nozzle double WACS, 0.2 mm CP (10 pk)* AM367-1166CPX L301355X/TG 71712335 AM-Nozzle double WACS, 0.3 mm CP (10 pk)* AM367-1166CPX L301355X/TG 71712335 AM-Nozzle double WACS, 0.3 mm CP (10 pk)* AM367-1165CPX L301355X/TG AM-Nozzle double WACS, 0.3 mm CP (10 pk)* AM367-1165CPX L301355X/TG AM-Nozzle double WACS, 0.3 mm CP (10 pk)* AM367-1156CPX L301355X/TG AM-Nozzle double WACS, 0.3 mm CP (10 pk)* AM367-1156CPX L301355X/TG AM-Nozzle double WACS, 0.3 mm CP (10 pk)* AM367-1156CPX L301355X/TG AM-Nozzle double WACS, 0.4 mm CP (10 pk)* AM367-1156CPX L301355X/TG AM-Nozzle double WACS, 0.4 mm CP (10 pk)* AM367-1156CPX L301355X/TG AM-Nozzle double WACS, 0.4 mm CP (10 pk)* AM367-1156CPX L301360X/TG AM-Nozzle double WACS, 0.4 mm CP (10 pk)* AM367-1156CPX L301360X/TG AM-Nozzle double WACS, 0.5 mm CP (10 pk)* AM367-1156CPX L301360X/TG AM-Nozzle double WA | 1 1 1 1 |
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| AM367-0019X-C L301653XH/TG AM-Nozzle w/collar fiber WACS, S0.8 mm Fe HCP (10 pk)* | 1 |
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| | 10 |
| AM367-0030X L301654XH 71570030 AM-Nozzle fiber WACS, S1.0 mm Fe HCP (10 pk)* | 10 |
| AM367-0030X-C L301654XH/TG 71570030 AM-Nozzle w/collar fiber WACS, S1.0 mm Fe HCP (10 pk)* | 10 |
| AM367-0023X L301655XH 71570023 AM-Nozzle fiber WACS, S1.2 mm Fe HCP (10 pk)* | 10 |
| 16 AM367-0023X-C L301655XH/TG 71570023 AM-Nozzle w/collar fiber WACS, S1.2 mm Fe HCP (10 pk)* | 10 |
| AM367-0024X L301656XH AM-Nozzle fiber WACS, S1.4 mm Fe HCP (10 pk)* | 10 |
| AM367-0024X-C L301656XH/TG AM-Nozzle w/collar fiber WACS, S1.4 mm Fe HCP (10 pk)* | 10 |
| AM367-0027X L301657XH AM-Nozzle fiber WACS, S1.7 mm Fe HCP (10 pk)* | 10 |
| AM367-0027X-C L301657XH/TG AM-Nozzle m/collar fiber WACS, S1.7 mm Fe HCP (10 pk)* | 10 |
| AM367-0026X L301658XH AM-Nozzle fiber WACS, S2.0 mm Fe HCP (10 pk)* | 10 |
| AM367-0026X-C L301658XH/TG AM-Nozzle w/collar fiber WACS, S2.0 mm Fe HCP (10 pk)* | 10 |
| AM367-1899CPV NEW L201899XH 71568227 AM-Nozzle double fiber, D1.4 mm Fe HCP (5 pk)** | 5 |
| AM367-1899CPV-C NEW L201899XH/TG AM-Nozzle double fiber w/collar, D1.4 mm Fe HCP (5 pk)** | 5 |
| AM367-1900CPV L201900XH AM-Nozzle double fiber, D1.2 mm Fe HCP (5 pk)** | 5 |
| AM367-1900CPV-C L201900XH/TG AM-Nozzle double fiber w/collar, D1.2 mm Fe HCP (5 pk)** | 5 |
| 17 AM367-1901CPV L201901XH AM-Nozzle double fiber, D1.5 mm Fe HCP (5 pk)** | 5 |
| AM367-1901CPV-C L201901XH/TG AM-Nozzle double fiber w/collar, D1.5 mm Fe HCP (5 pk)** | 5 |
| AM367-1902CPV NEW L201902XH AM-Nozzle double fiber, D2.0 mm Fe HCP (5 pk)** | 5 |
| AM367-1902CPV-C NEW L201902XH/TG AM-Nozzle double fiber w/collar, D2.0 mm Fe HCP (5 pk)** | 5 |

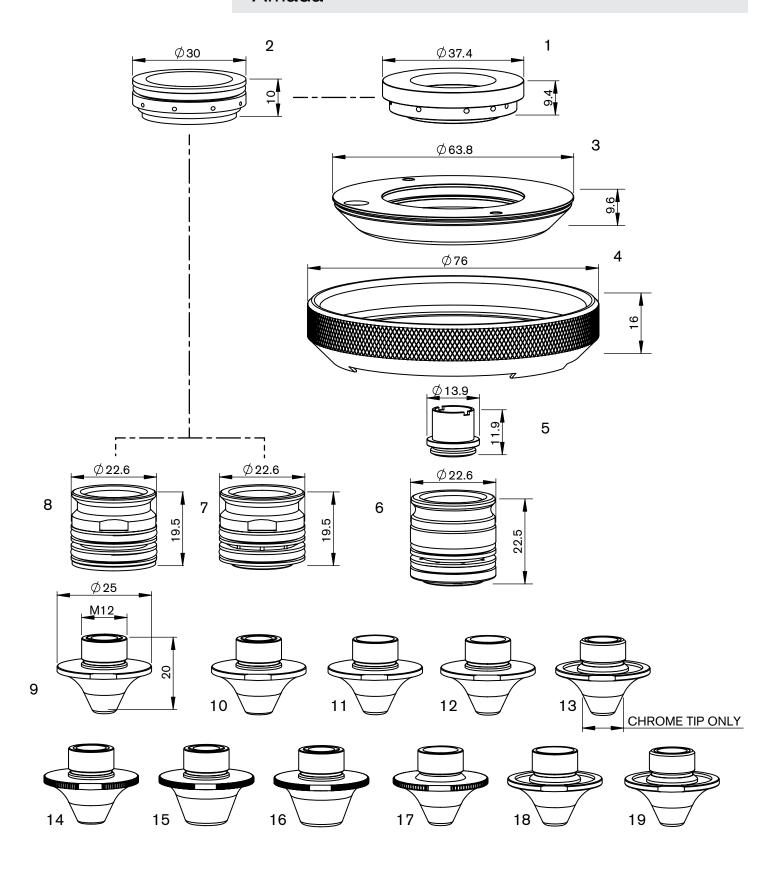
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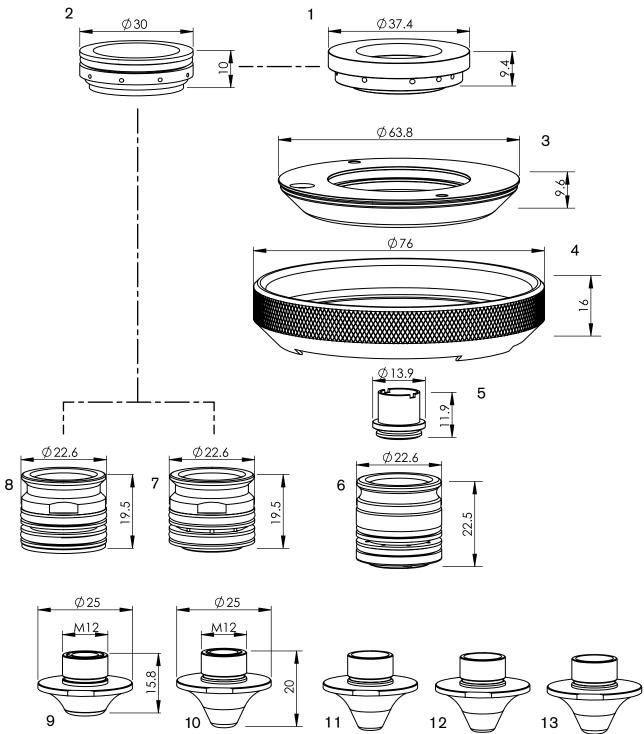
| | Centricut | Esse A | Reference | | Pkg |
|-----|-------------------------|-------------|--------------------------------------|--|-----|
| | part number | part number | number | Description | qty |
| 1 | AM367-2349 | AL372 | 7973497, 71712349 | AM-Holder, PTFE*** | 1 |
| 2 | AM367-2026 | AL340 | 71502026 | AM-Holder, PTFE*** | 1 |
| 3 | AM367-2342 | AL456XH | 71712342 | AM-Cover kit | 1 |
| 4 | AM367-2341 | AL455XH | 71712341 | AM-Nut kit | 1 |
| | AM367-2344X (not shown) | AL30359 | | AM-Locating Pin (10 pk)* | 10 |
| 5 | AM367-6438 | AL392 | 71716438, 71798350 | AM-Inner for adapter | 1 |
| | AM367-0360 | AL360 | 71712350, 7973459 | AM-Nozzle adapter w/holes | 1 |
| | AM367-0360V | AL20360 | 71712350, 7973459 | AM-Nozzle adapter w/holes (5 pk)* | 5 |
| 6 | AM367-0364 | AL360/AM | 71712350, 7973459 | AM-Nozzle adapter w/holes and inner | 1 |
| | AM367-0364V | AL20360/AM | 71712350, 7973459 | AM-Nozzle adapter w/holes and inner(5 pk)* | 5 |
| | AM367-0397 (not shown) | AL397 | | AM-O-ring kit for adapter (AM367-0360/0364) | 1 |
| 7 | AM367-2036 | AL248 | 71502036 | AM-Nozzle adapter w/8 holes | 1 |
| 8 | AM367-3036 | AL348 | 71502036 | AM-Nozzle adapter w/12 holes | 1 |
| | AM367-8550X | L301401X | | AM-Nozzle double eco cut, D1.4 mm CP (10 pk)* | 10 |
| _ | AM367-6789X | L301403X | 71516789, 71501059 | AM-Nozzle double eco cut, D2.5 mm CP (10 pk)* | 10 |
| 9 | AM367-6795X | L301404X | | AM-Nozzle double eco cut, D3.0 mm CP (10 pk)* | 10 |
| | AM367-6790X | L301405X | 71516790 | AM-Nozzle double eco cut, D4.0 mm CP (10 pk)* | 10 |
| 10 | AM367-6791CPX | L301406X | 71501093, D4.0ACC | AM-Nozzle double, D4.0 mm AL CP (10 pk)* | 10 |
| 11 | AM367-1407CPX | L301407X | 71460102, 71502037, 71566686, S1.2E | AM-Nozzle eco cut, S1.2 mm CP (10 pk)* | 10 |
| | AM367-1410CPX | L301410X | | AM-Nozzle eco cut, S1.4 mm CP (10 pk)* | 10 |
| 10 | AM367-1411CPX | L301411X | 71501056, 71712720 | AM-Nozzle eco cut, S1.5 mm CP (10 pk)* | 10 |
| 12 | AM367-1412CPX | L301412X | 71501057, 71555124 | AM-Nozzle eco cut, S2.0 mm CP (10 pk)* | 10 |
| | AM367-1413CPX | L301413X | 71516788, 71501058 | AM-Nozzle eco cut, S3.0 mm CP (10 pk)* | 10 |
| 10 | AM367-1161CPX | L301644XH | D1.5F | AM-Nozzle double, D1.5 mm CP (10 pk)* | 10 |
| 13 | AM367-1163CPX | L301645XH | 71570022, D2.0F | AM-Nozzle double, D2.0 mm CP (10 pk)* | 10 |
| 44 | AM367-1727CPX | L301415XH | D2.5CC | AM-Nozzle double clean cut, D2.5 mm HCP (10 pk)* | 10 |
| 14 | AM367-1728X | L301416XH | 71341728, 1576280A, 71555121, D4.0CC | AM-Nozzle double clean cut, D4.0 mm HCP (10 pk)* | 10 |
| | AM367-1717CPX | L301417XH | D5.0CC | AM-Nozzle double clean cut, D5.0 mm HCP (10 pk)* | 10 |
| 45 | AM367-1718CPX | L301418XH | D6.0CC | AM-Nozzle double clean cut, D6.0 mm HCP (10 pk)* | 10 |
| 15 | AM367-1729CPX | L301419XH | 71341729, 1576277A, D7.0CC, 71341719 | AM-Nozzle double clean cut, D7.0 mm HCP (10 pk)* | 10 |
| | AM367-1092CPX | L301425X | 71501092, D7.0AL | AM-Nozzle double clean cut, D7.0 mm AL CP (10 pk)* | 10 |
| 16 | AM367-1770CPX | L301420X | 71712692, D7.0SC | AM-Nozzle double silky cut, D7.0 mm Fe CP (10 pk)* | 10 |
| | AM367-1421CPX | L301421XH | | AM-Nozzle clean cut, S1.5 mm Fe HCP (10 pk)* | 10 |
| 4-7 | AM367-1422CPX | L301422XH | 71502043, 3810422, S2.0CC | AM-Nozzle clean cut, S2.0 mm Fe HCP (10 pk)* | 10 |
| 17 | AM367-1423CPX | L301423XH | 71502044, 3810423, S3.0CC | AM-Nozzle clean cut, S3.0 mm Fe HCP (10 pk)* | 10 |
| | AM367-1424CPX | L301424XH | | AM-Nozzle clean cut, S2.5 mm Fe HCP (10 pk)* | 10 |
| | AM367-1561 | L1561X | 71570021 | AM-Nozzle, S1.0F mm CP | 1 |
| 18 | AM367-1562 | L1562X | 71570020 | AM-Nozzle, S1.2F mm CP | 1 |
| | AM367-1563 | L1563X | S1.4FE | AM-Nozzle, S1.4F mm CP | 1 |
| | AM367-0020X | L301645X | 71570022 | AM-Nozzle double, D2.0 mm F CP (10 pk)* | 10 |
| 19 | AM367-0025X | L301646X | | AM-Nozzle double, D2.5 mm F CP (10 pk)* | 10 |
| | AM367-0040X | L301649X | | AM-Nozzle double, D4.0 mm F CP (10 pk)* | 10 |

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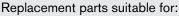




Consumables

| | Centricut part number | Esse A part number | Reference number | Description | Pkg qty |
|---|--------------------------|-----------------------|---------------------|--------------------------|------------|
| 1 | AM367-2349 | AL372 | 7973497, 71712349 | AM-Holder, PTFE*** | 1 |
| 2 | AM367-2026 | AL340 | 71502026 | AM-Holder, PTFE*** | 1 |
| 3 | AM367-2342 | AL456XH | 71712342 | AM-Cover kit | 1 |
| 4 | AM367-2341 | AL455XH | 71712341 | AM-Nut kit | 1 |
| | AM367-2344X (not shown) | AL30359 | | AM-Locating Pin (10 pk)* | 10 |
| 5 | AM367-6438 | AL392 | 71716438, 71798350 | AM-Inner for adapter | 1 |

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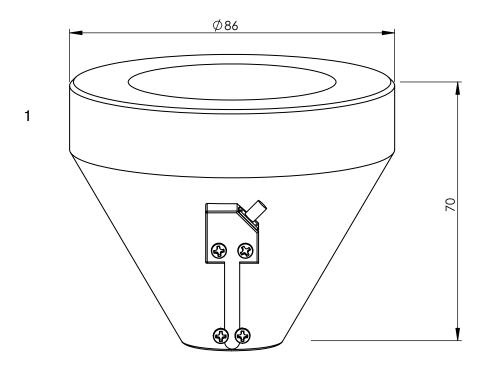
| | Centricut | Esse A | Reference | | Pkg |
|-----|------------------------|-------------|--|--|-----|
| | part number | part number | number | Description | qty |
| | AM367-0360 | AL360 | 71712350, 7973459 | AM-Nozzle adapter w/holes | 1 |
| 6 | AM367-0360V | AL20360 | 71712350, 7973459 | AM-Nozzle adapter w/holes (5 pk)* | 5 |
| | AM367-0364 | AL360/AM | 71712350, 7973459 | AM-Nozzle adapter w/holes and inner | 1 |
| | AM367-0364V | AL20360/AM | 71712350, 7973459 | AM-Nozzle adapter w/holes and inner(5 pk)* | 5 |
| | AM367-0397 (not shown) | AL397 | | AM-O-ring kit for adapter (AM367-0360/0364) | 1 |
| 7 | AM367-2036 | AL248 | 71502036 | AM-Nozzle adapter w/8 holes | 1 |
| 8 | AM367-3036 | AL348 | 71502036 | AM-Nozzle adapter w/12 holes | 1 |
| 9 | AM343-2340CPS | L565X | | AM-Nozzle double short, 4.0 mm CP | 1 |
| | AM343-2361-1.2X | L30585X | 1572361 | AM-Nozzle double, 1.2 mm CP (10 pk)* | 10 |
| | AM343-9813X | L30586X | 71369813, 71502038, 1576396C, 71341779, 71518550 | AM-Nozzle double, 1.4 mm CP (10 pk)* | 10 |
| | AM343-2361-1.7X | L30574X | 1572361, 71518548, 1572380 | AM-Nozzle double, 1.7 mm CP (10 pk)* | 10 |
| | AM343-2361-2.0X | L30587X | 1572361 | AM-Nozzle double, 2.0 mm CP (10 pk)* | 10 |
| 10 | AM343-2361-2.5X | L30584X | 71515394, 71516789, 1576398, 1576398B, 71501059 | AM-Nozzle double, 2.5 mm CP (10 pk)* | 10 |
| 10 | AM343-2361-3X | L30588X | 1572361, 71516788 | AM-Nozzle double, 3.0 mm CP (10 pk)* | 10 |
| | AM343-9817X | L30589X | 71501060, 71515395, 71516790, 1576399B, | AM-Nozzle double, 4.0 mm CP (10 pk)* | 10 |
| | AM367-1037X | L301037X | | AM-Nozzle double, 4.0 mm /inner 2.0 mm CP (10 pk)* | 10 |
| | AM343-2350CPX | L30583X | 1572361 | AM-Nozzle double, 5.0 mm CP (10 pk)* | 10 |
| | AM343-0569X | L30569X | | AM-Nozzle double, 6.0 mm CP (10 pk)* | 10 |
| | AM367-1608HCP | | 71341781, 71369822, 1572362, 71563584 | AM-Nozzle, 0.8 mm Hard CP | 1 |
| | AM367-1610HCP | | 1572367, 1572367A, 7156358 | AM-Nozzle, 1.0 mm Hard CP | 1 |
| | AM367-1612HCP | | 71369812, 71461028, 1576410C, 71341778 | AM-Nozzle, 1.2 mm Hard CP | 1 |
| | AM343-9812CPX | | | AM-Nozzle, 1.2 mm CP (10 pk) | 10 |
| | AM367-1614HCP | | 1572362 | AM-Nozzle, 1.4 mm Hard CP | 1 |
| | AM367-1615HCP | | 1572362, 1572368B | AM-Nozzle, 1.5 mm Hard CP | 1 |
| | AM367-1617HCP | | 1572362 | AM-Nozzle, 1.7 mm Hard CP | 1 |
| | AM367-1620HCP | | 71515392, 71369815, 1576411B | AM-Nozzle, 2.0 mm Hard CP | 1 |
| | AM367-1625HCP | | 11010002, 11000010, 10101112 | AM-Nozzle, 2.5 mm Hard CP | 1 |
| | AM367-1630HCP | | 71515393, 1576412B, 1576112 | AM-Nozzle, 3.0 mm Hard CP | 1 |
| 11 | AM367-1640HCP | | 1572362 | AM-Nozzle, 4.0 mm Hard CP | 1 |
| '' | ANIOUT TOTOTION | L30590X | 71341781, 71369822, 1572362, 71563584 | AM-Nozzle, 0.8 mm CP (10 pk)* | 10 |
| | | L30591X | 1572367, 1572367A, 7156358 | AM-Nozzle, 1.0 mm CP (10 pk)* | 10 |
| | | L30592X | 71369812, 71461028, 1576410C, 71341778 | AM-Nozzle, 1.2 mm CP (10 pk)* | 10 |
| | | L30593X | 1572362 | AM-Nozzle, 1.4 mm CP (10 pk)* | 10 |
| | | L30597X | 1572362 1572362, 1572368B | AM-Nozzle, 1.5 mm CP (10 pk)* | 10 |
| | | L30575X | 1572362 | AM-Nozzle, 1.7 mm CP (10 pk)* | 10 |
| | | L30594X | 71515392, 71369815, 1576411B | AM-Nozzle, 2.0 mm CP (10 pk)* | 10 |
| | | L30572X | 71313392, 71303013, 13704110 | AM-Nozzle, 2.5 mm CP (10 pk)* | 10 |
| | | | 71515000 15704100 1570110 | | |
| | | L30595X | 71515393, 1576412B, 1576112 1572362 | AM-Nozzle, 3.0 mm CP (10 pk)* | 10 |
| | 444040 00040BV | L30596X | 1312302 | AM-Nozzle, 4.0 mm CP (10 pk)* | 10 |
| | AM343-0004CPX | L301027X | | AM-Nozzle straight taper, 0.8 mm CP (10 pk)* | 10 |
| | AM343-0005CPX | L301028X | | AM-Nozzle straight taper, 1.0 mm CP (10 pk)* | 10 |
| | AM343-0006CPX | L301029X | | AM-Nozzle straight taper, 1.2 mm CP (10 pk)* | 10 |
| 4.0 | AM343-0007CPX | L301030X | | AM-Nozzle straight taper, 1.4 mm CP (10 pk)* | 10 |
| 12 | AM343-0001CPX | L30599X | | AM-Nozzle straight taper, 1.5 mm CP (10 pk)* | 10 |
| | AM343-0002CPX | L3030598X | | AM-Nozzle straight taper, 2.0 mm CP (10 pk)* | 10 |
| | AM343-0009CPX | L301033X | | AM-Nozzle straight taper, 2.3 mm CP (10 pk)* | 10 |
| | AM343-0003CPX | L30571X | | AM-Nozzle straight taper, 3.0 mm CP (10 pk)* | 10 |
| | AM343-0003CP | L571X | | AM-Nozzle straight taper, 3.0 mm CP | 1 |
| 13 | AM367-2037 | L1026X | 71502037 | AM-Nozzle w/concave, 1.2 mm CP | 1 |
| | AM367-2038 | L1031X | 71502038 | AM-Nozzle double w/concave, 1.4 mm CP | 1 |

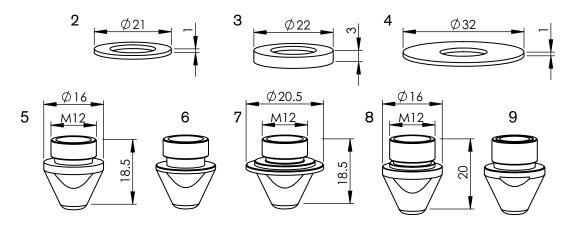
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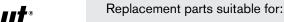
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| | Centricut part number | Esse A part number | Reference number | Description | Pkg qty |
|---|--------------------------|-----------------------|---------------------|---|------------|
| 1 | AM343-1621 | | 71360091 | AM-Sensor cone, HS95 | 1 |
| | AM343-0091 (not shown) | | 71341621 | AM-Sensor cone, HS95 mini | 1 |
| 2 | AM325-325-1X | AL301005 | 71341614 | AM-Head protection disc, 21 mm plastic (10 pk)* | 10 |
| | AM325-1614X (not shown) | AL30122 | 71341614, 71369818 | AM-Head protection disc, 20 mm Vespel (10 pk)* | 10 |
| 3 | AM325-325-2X | AL30123 | 71341614 | AM-Head protection disc, 22 mm ceramic (10 pk)* | 10 |
| 4 | AM325-9819 | AL42 | 71639819 | AM-Head protection disc, 32 mm | 1 |





| | Centricut | Esse A | Reference | | Pkg |
|---|-----------------|-------------|--------------------------------------|-----------------------------------|-----|
| | part number | part number | number | Description | qty |
| | AM325-545U-1.0 | L134X | 1664545U | AM-Nozzle, 1.0 mm CP | 1 |
| | AM325-0010CPX | L30134X | 1664545U | AM-Nozzle, 1.0 mm CP (10 pk) | 10 |
| | AM325-545U-1.25 | L135X | 1664545U | AM-Nozzle, 1.25 mm CP | 1 |
| | AM325-0125CPX | L30135X | 1664545U | AM-Nozzle, 1.25 mm CP (10 pk) | 10 |
| | AM325-545U-1.5 | L86X | 1664545U, 71341619, M90115 | AM-Nozzle, 1.5 mm CP | 1 |
| | AM325-0015CPX | L3086X | 1664545U | AM-Nozzle, 1.5 mm CP (10 pk) | 10 |
| 5 | AM325-0175CPX | L30136X | 1664545U | AM-Nozzle, 1.75 mm CP (10 pk) | 10 |
| | AM325-545U-2.0 | L137X | 1664545U, 71341610, M90114 | AM-Nozzle, 2.0 mm CP | 1 |
| | AM325-0020CPX | L30137X | 1664545U, 71341610 | AM-Nozzle, 2.0 mm CP (10 pk) | 10 |
| | AM325-545U-2.5 | L203X | 1664545U | AM-Nozzle, 2.5 mm CP | 1 |
| | AM325-0025CPX | L30203X | 1664545U | AM-Nozzle, 2.5 mm CP (10 pk) | 10 |
| | AM325-4544UX | L30138X | 1664545U, 71360142 | AM-Nozzle, 3.0 mm CP (10 pk)* | 10 |
| | AM325-0400CPX | L30339X | | AM-Nozzle, 4.0 mm CP (10 pk)* | 10 |
| | AM325-0002CPX | L30193X | | AM-Nozzle, 1.25 mm CP (10 pk) | 10 |
| 6 | AM325-0003CPX | L30194X | | AM-Nozzle, 1.5 mm CP (10 pk)* | 10 |
| 0 | AM325-0005CPX | L30196X | | AM-Nozzle, 2.0 mm CP (10 pk)* | 10 |
| | AM325-0007CPX | L30198X | | AM-Nozzle, 3.0 mm CP (10 pk)* | 10 |
| | AM325-1500CP | L1067X | | AM-Nozzle large flange, 1.5 mm CP | 1 |
| 7 | AM325-2000CP | L1066X | | AM-Nozzle large flange, 2.0 mm CP | 1 |
| | AM325-3000CP | L1068X | | AM-Nozzle large flange, 3.0 mm CP | 1 |
| 8 | AM325-1770 | L1285X | 71341770, 1667110 | AM-Nozzle, 2.0 mm CP | 1 |
| 0 | AM325-1730 | L1287X | | AM-Nozzle, 3.0 mm CP | 1 |
| | AM326-9864-1.0 | L390X | 1669864, 7134162 | AM-Nozzle double, 1.0 mm CP | 1 |
| | AM326-9864-1.2 | L392X | 1669864, 7134162 | AM-Nozzle double, 1.2 mm CP | 1 |
| | AM326-9864-1.4 | L393X | 1669864, 7134162 | AM-Nozzle double, 1.4 mm CP | 1 |
| | AM326-9864-1.5 | L391X | 1669864, 7134162 | AM-Nozzle double, 1.5 mm CP | 1 |
| 9 | AM326-9864-2.0 | L315X | 1669864, 7134162 | AM-Nozzle double, 2.0 mm CP | 1 |
| | AM326-9864-2.5 | L316X | 1669864, 7134162, 41341680, 71341772 | AM-Nozzle double, 2.5 mm CP | 1 |
| | AM326-9864-3.0 | L317X | 1669864, 7134163 | AM-Nozzle double, 3.0 mm CP | 1 |
| | AM326-9864-4.0 | L318X | 1669795, 71341681 | AM-Nozzle double, 4.0 mm CP | 1 |

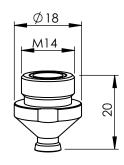
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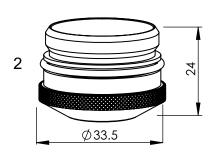


Replacement parts suitable for:

Amada®

1



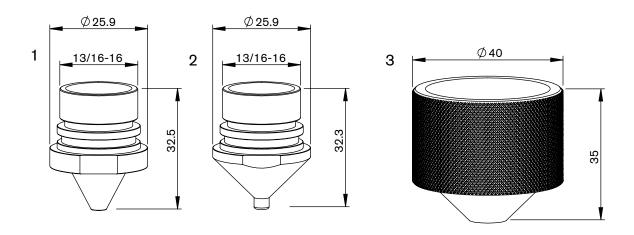


| | Centricut part number | Esse A part number | Reference number | Description | Pkg qty |
|---|--------------------------|-----------------------|------------------------------|-------------------------------------|------------|
| | AM326-1218-2.5 | L321X | 6551218, 71341682, 71341680 | AM-Nozzle double, 2.5 mm CP | 1 |
| 1 | AM326-1218-3.0 | L322X | 6551218, 71341682 | AM-Nozzle double, 3.0 mm CP | 1 |
| ' | AM326-1218-3.8 | L323X | 6551218, 71341682 | AM-Nozzle double, 3.8 mm CP | 1 |
| | AM326-4140CP | L330X | 6551218, 71341682 | AM-Nozzle double, 4.0 mm CP | 1 |
| 2 | AM326-6452 | AL115X | 71366452, 71341684, 6551148A | AM-Nozzle outer, CP | 1 |
| | AM326-S-14 (not shown) | AL93 | S-14 | AM-O-ring for nozzle (10 pcs) | 10 |
| | AM326-6453 (not shown) | AL94 | 71366453 | AM-O-ring for outer nozzle (10 pcs) | 10 |

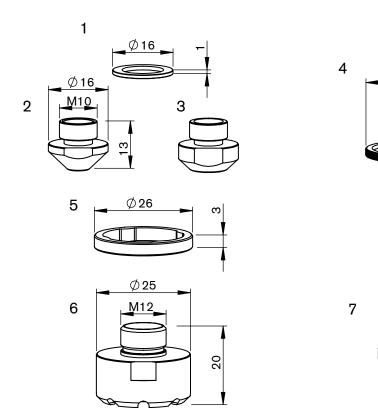


Replacement parts suitable for:

Amada®



| | Centricut part number | Esse A part number | Reference number | Description | Pkg qty |
|---|--------------------------|-----------------------|---------------------|----------------------------|------------|
| 1 | AM324-6892-2.0 | L39X | 74712001, 6506892 | AM-Nozzle, 2.0 mm CP | 1 |
| 0 | AM308-1902 | L91X | 71101902 | AM-Nozzle, 1.5 mm CP | 1 |
| 2 | AM308-1901-2.0 | L29X | 71101901, 845735 | AM-Nozzle, 2.0 mm CP | 1 |
| 3 | AM308-1905 | L30X | 71101905, 841143B | AM-Nozzle outer, CP | 1 |
| | AM308-S-20 (not shown) | AL90 | S-20 | AM-0-ring kit (10 pk) | 10 |
| | AM308-AS-34 (not shown) | AL96 | 1AS-34 | AM-O-ring for outer nozzle | 1 |



Consumables

| | Centricut | Esse A | Reference | | Pkg |
|---------------------------------------|----------------|-------------|------------------------|--------------------------------|-----|
| | part number | part number | number | Description | qty |
| 1 | AM325-4006-R | AL107 | 62094006-ring | AM-Head protection disc, 16 mm | 1 |
| | AM325-4006-1.5 | L173X | 62094006, 1507610 | AM-Nozzle, 1.5 mm CP | 1 |
| | AM325-4015CPX | L30173X | 62094006, 1507610 | AM-Nozzle, 1.5 mm CP (10 pk) | 10 |
| , | AM325-4006-2.0 | L27X | 62094006, 1507611 | AM-Nozzle, 2.0 mm CP | 1 |
| \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | AM325-4020CPX | L3027X | 62094006, 1507611 | AM-Nozzle, 2.0 mm CP (10 pk) | 10 |
| | AM325-4025CPX | L30175X | 62094006 | AM-Nozzle, 2.5 mm CP (10 pk)* | 10 |
| | AM325-4030CPX | L3028X | 62094008, 71102007 | AM-Nozzle, 3.0 mm CP (10 pk) | 10 |
| | AM325-4005-1.5 | L752X | 62094005, 71341515 | AM-Nozzle, 1.5 mm CP | 1 |
| 3 | AM325-4005-2.0 | L754X | 62094005, 71102006 | AM-Nozzle, 2.0 mm CP | 1 |
| 3 | AM325-1520CPX | L30754X | 62094005, 71102006 | AM-Nozzle, 2.0 mm CP (10 pk) | 10 |
| | AM325-1530CP | L756X | 62094005, 71341515-3.0 | AM-Nozzle, 3.0 mm CP | 1 |
| 4 | AM308-8815CP | L95X | | AM-Nozzle, 1.5 mm CP | 1 |
| 4 | AM308-8820CP | L38X | 74718816, 8249301 | AM-Nozzle, 2.0 mm CP | 1 |
| 5 | AM367-3028 | AL403 | | AM-Collar, PTFE** | 1 |
| 6 | AM367-1333 | L1333 | | AM-Nozzle, 2.0 mm | 1 |
| | AM369-0002 | L927X | | AM-Nozzle HP-X, 1.0 mm CP | 1 |
| 7 | AM369-0005 | L930X | | AM-Nozzle HP-X, 2.0 mm CP | 1 |
| | AM369-0007 | L932X | 71362733 | AM-Nozzle HP-X, 3.0 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. AM123-4567X would be AM123-4567). For Esse A parts available in single packs. To order single packs, remove the '30' after the L in the part number (e.g. L301401X would be L401X).

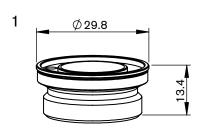
Ø 22

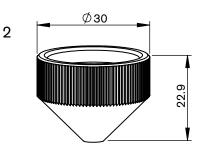
^{**} PolyTetraFluoroEthylene is a fluorocarbon-based polymer and is commonly abbreviated PTFE. The Teflon® brand of PTFE is manufactured only by DuPont and is not sold by Hypertherm. Hypertherm purchases other brands of PTFE from various high quality manufacturers.



Replacement parts suitable for:

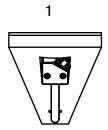
Amada®

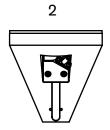


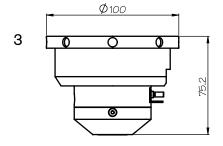


Consumables

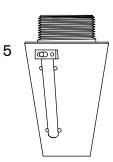
| | Centricut part number | Esse A part number | Reference number | Description | Pkg qty |
|---|--------------------------|-----------------------|---|-------------------------|------------|
| 1 | MB334-0001 | AL267 | P0594-860-00001, PHX-INS | MB-Nozzle holder | 1 |
| 0 | MB316-269S | AL238 | 71800027, BQ933D221H04, P0593-860-00001 | MB-Shield cap, short | 1 |
| 4 | MB316-269SCP | AL238X | | MB-Shield cap, short CP | 1 |









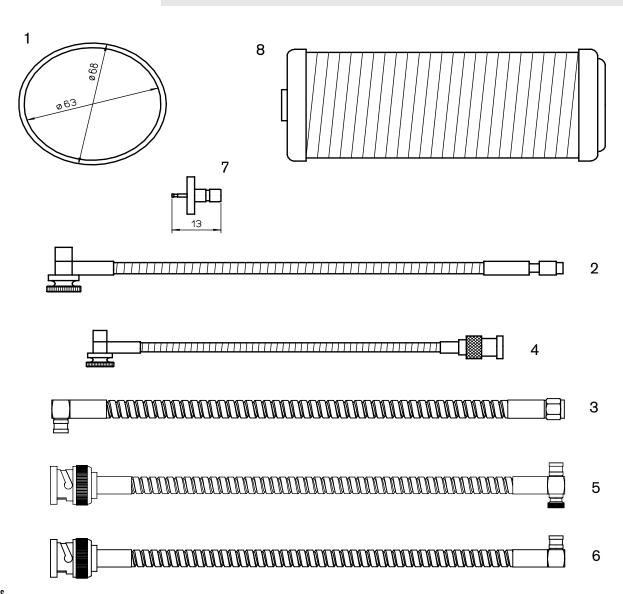


Consumables

| | Centricut part number | Esse A part number | Reference number | Description | Pkg qty |
|---|---------------------------|-----------------------|---------------------|---------------------------|------------|
| | New Sensor Cones | | | | |
| 1 | AM343-0091 | AL600 | 71360091 | AM-Sensor cone, HS95 mini | 1 |
| 2 | AM343-1621 | AL601 | 71341621 | AM-Sensor cone, HS95 | 1 |
| 3 | AM343-9107 | AL603 | 71399107, 71341622 | AM-Sensor cone, ECO | 1 |
| 4 | AM343-1690 | AL602 | 71341690 | AM-Sensor cone, HS98 | 1 |
| 5 | AM343-L3015C | AL550 | 71374509 | AM-Sensor cone, LC3015 | 1 |
| | AM999-DUSTCAP (not shown) | | | AM-Dust cap, HPX | 1 |
| | AM343-4233B (not shown) | AL551 | 71567230 | AM-Sensor cone, HPL Black | |
| | AM343-4233G (not shown) | AL552 | 71564233 | AM-Sensor cone, HPL Gold | |

^{*}Repair is available in N. America for many sensor cones

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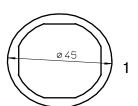
| Ouliot | oonouniusioo | | | | | |
|--------|--------------------------|-----------------------|-----------------------------------|---|------------|--|
| | Centricut part number | Esse A part number | Reference number | Description | Pkg qty | |
| 1 | AM313-0004 | AL56 | | AM-Gasket, sensor head, PTFE* | 1 | |
| 2 | AM313-1901 | AL200 | 71341630 | AM-Sensor cable, 305 mm (12") | 1 | |
| 3 | AM313-1901A | | 71398293 | AM-Sensor cable HS-5, 305 mm (12") premium, armored | 1 | |
| 4 | AM308-8965 | AL260 | 71398965, 71517359 | AM-Sensor cable, 305 mm (12") | 1 | |
| 5 | AM308-8965A | AL613 | 71398965, 71341901 | AM-Sensor cable, 305 mm (12") premium, armored | 1 | |
| 6 | AM313-9851A | | 71369851 | AM-Sensor cable, 230 mm (8") premium | 1 | |
| 7 | AM308-0001 | AL263 | | AM-Sensor cable connector | 1 | |
| 8 | AM313-2023 | | 71232023, 712-32-023, Z50PMB00090 | AM-Vacuum pump filter | 1 | |
| | AM313-1526 (not shown) | AL614 | | AM-Sensor cable ZS6, 530 mm | 1 | |
| | AM313-8292 (not shown) | AL615 | 71398292 | AM-Sensor cable dual shield, 7 meters | 1 | |

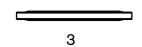
^{*}PolyTetraFluoroEthylene is a fluorocarbon-based polymer and is commonly abbreviated PTFE. The Teflon® brand of PTFE is manufactured only by DuPont and is not sold by Hypertherm. Hypertherm purchases other brands of PTFE from various high quality manufacturers.

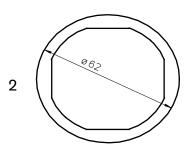


Replacement parts suitable for:

Amada®







| | Centricut part number | Esse A part number | Reference number | Description | Pkg qty |
|---|----------------------------------|-----------------------|---------------------|-------------------------------------|------------|
| | Centricut lens housings and asse | mblies | | | |
| 1 | AM313-0005 | AL52 | 71360261, 74721907 | AM-Gasket, 1.5" lens housing, PTFE* | 1 |
| 2 | AM313-9513 | AL149 | 71361393 | AM-Gasket 2.0" lens housing, PTFE* | 1 |
| 3 | AM313-1071 | AL249 | 71501071 | AM-Gasket | 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 Hypertherm. Hypertherm purchases other brands of PTFE from various high quality manufacturers.



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

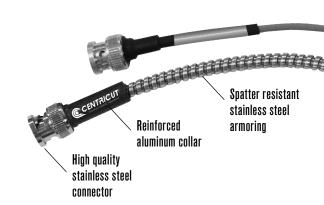
| Centricut | Esse A | | Reference | |
|--------------|-------------|------------|---|-----------------------------------|
| part number | part number | OEM | number | Description |
| AM343-0091 | AL600 | Amada | 71360091 | AM-Sensor cone, HS95 mini |
| AM343-1621* | AL601 | Amada | 71341621 | AM-Sensor 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 | AL606 | 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 | OOBSBA630MNC | 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-OBNC/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 |
| PT347-0250 | AL634 | Precitec | 342475 | PT-Sensor cable, 250 mm (9.8") 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.

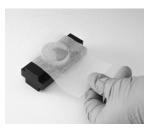


Step 1

Place lens paper over the optic, covering it completely.



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



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.

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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 guickly 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 CO₂ 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 mild steel, cut with O₂ on a 2 kW fiber laser with one variable changed to show how cut quality is affected. The adjustments will be similar for all CO₂ 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.

The cut striations are

trailing the direction of

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

Gas pressure is too low

There is not enough O₂

to remove all the molten

Stand off is too low

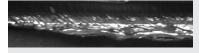
the rough edge.

The focus spot is in the

wrong location, causing

material.





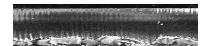
Focus is too high

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



Feed rate is too slow

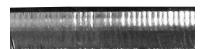
The cut surface is too rough and productivity is decreased.

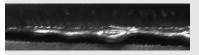




Gas pressure is too high

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





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.

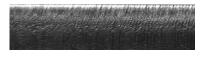
Cut direction

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 mild steel cut resulting in too narrow kerf

Factory cut chart settings



6 mm 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 12102610164212102102161040212116080211161

The wider focus spot is letting too much O2 into the cut and burning the material.



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



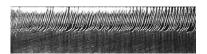


Feed rate is too slow

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.



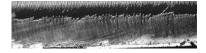


Gas pressure is too high

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.



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

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^{*}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 mild steel cut resulting in too narrow kerf

Factory cut chart settings



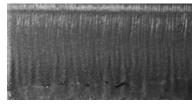


Factory cut chart settings

Focus is too low

The kerf is too narrow and doesn't allow enough O₂ 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 .

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12 mm mild steel cut resulting in too wide kerf

Factory cut chart settings



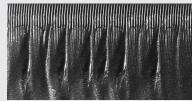


Factory cut chart settings

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

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

Gas pressure is too high

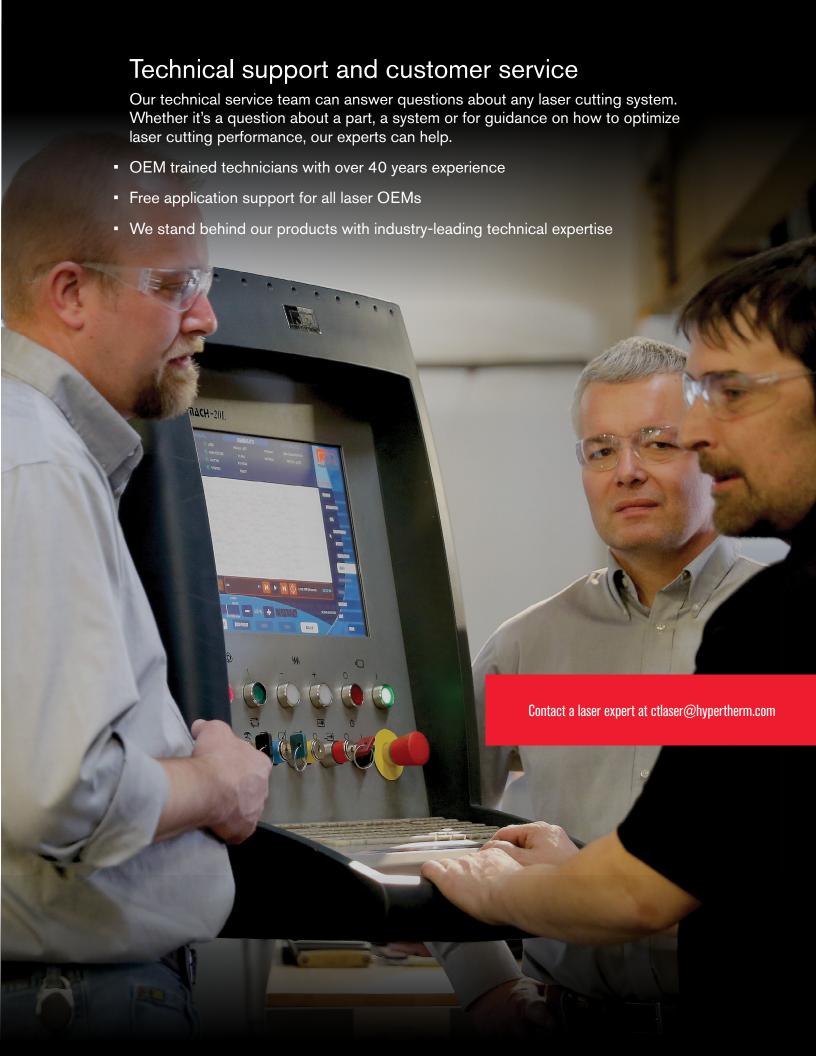
Too much O₂ is entering the cut resulting in intermittent over burning.



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.

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