



High Performance Laser Consumables

LVD[®]

CO2 & FIBER LASER

- NOZZLES
- OPTICS
- ACCESSORIES



Headquartered in Anoka, Minnesota, in a 300,000 sq. ft. (28,000m²) state-of-the-art facility.

SEVEN DECADES OF EXCELLENCE

Founded in 1962, Mate is a world-class manufacturer of superior solutions for the metal cutting and metal forming industries. We manufacture workholding systems, CNC punch press tooling, and offer a complete line of press brake tooling and laser consumables. Mate products and services are available worldwide, fully supported by more than 80 dealers in every industrialized country.

PERSONAL, RESPECTFUL RELATIONSHIPS

Mate does business with people, not companies. Our connection to you is personal. Mate's team of manufacturing and metalworking professionals knows what you go through. We know what it's like to compete for that next job, manage deadlines or even need a rescue. With Mate you have a partner that respects your knowledge and is dedicated to helping you succeed.

YOUR GO-TO SOURCE

Serving our customers is at the core of who we are. In your plant or on the phone, we're up for whatever metalworking challenges you face. Your Mate representatives are experts who know from experience what happens on the shop floor and provide our legendary in-field support. They speak your language, fully capable of helping you improve processes and solve problems. Mate customer service is ready to assist with fast quotes, guiding your order on to our top-notch machinists and shipping pros.

GET INSPIRED!

With our vast knowledge and broad product range we inspire innovative thinking. Our customer's projects can be seen around the world: from unique building façades thought to be impossible to make, to a new way to add strength to thin material. The possibilities are endless, so think big, bold and beyond.

WE'VE GOT YOU COVERED

Dedicated to quality in every aspect of our business, Mate offers an extensive standard product line that can be delivered with same day or next day service. All Mate products are backed with our industry leading 100% customer satisfaction guarantee.



MATE'S MISSION AND PROMISE TO YOU:

Mate's mission is to personally **Respect, Support** and **Inspire** metalworking professionals around the world with high-quality products and services for factory productivity.

[Dimensions in Inches (mm)]



PERFORMAX™

Performax™ CO2 Laser Lenses (MLL Series)

MATE PERFORMAX™ – the production lens for consistent CO2 laser performance

- Ideal for general laser cutting 4Kw and less
- Rated at less than 0.20% absorption, among the lowest standard lenses on the market
- Superior polishing for a smoother, easier to clean surface. Polished to a 20/10 scratch/dig specification to resist spatter and stay clean longer



PEAK™

Low Absorption CO2 Laser Lenses (MLP Series)

The difference is clear: MATE PEAK™ low absorption, high performance CO2 laser lenses for demanding applications or high power cutting

- Less than 0.15% absorption offers improved cut quality, consistency and longer lens life
- Helium Neon (HeNe) laser beam compatible for better part alignment
- Proprietary clear coating offers superior lens stability, and allows for lens inspection and stress analysis
- Reduces optical distortion and focal length shift



BLACKMAGIC™

Low Absorption CO2 Laser Lenses (MLB Series)

- Increased Performance and Versatility: Produce improved cuts on aluminum, stainless and other materials
- Coating: Black Magic lenses have the most durable coating in the industry and are spatter resistant
- Impervious to humidity: Work well regardless of humidity for assured efficiency
- Cost Savings: Usually last twice as long or more as standard lenses



1 MICRON OPTICS

Fiber Laser Optics (MLF and MLW Series)

- Lower absorption for maximum cut quality and extended optic life
- Clear coating offers superior lens stability
- Consistent performance: manufactured to exceptionally high tolerances for consistent performance and uniform cutting
- Approved by leading OEMs



FLOWMASTER™

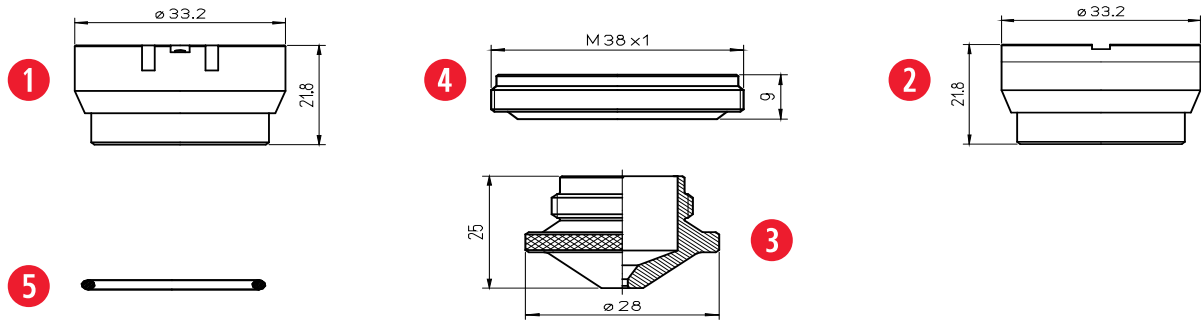
Nozzles and Nozzle Holders (MLN Series)

MATE FLOWMASTER™ nozzles are available in single and double style

- Highest quality copper alloy, stainless and hard stainless material
- Precision manufactured to tight tolerances of +/- 0-10 microns
- Micro-finished internal surfaces improve airflow
- Available for most OEM laser machine manufacturers
- Mate® carries over 2000 types of laser MLN nozzles and nozzle holders
- Manufactured to exacting standards to eliminate unnecessary variables and costly cutting problems for maximum productivity



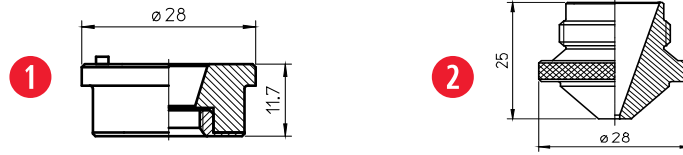
[Dimensions in Inches (mm)]



POS	MATE PART NUMBER	OEM CODE	ALTERNATE CODE	PART DESCRIPTION
1	MLN01226	281146, P0380-211-00001, 29100033	AL130	ORIGINAL NOZZLE HOLDER IT M1.5" DZ - ALUMINUM
	MLN01227	281146, P0380-211-00001, 29100033	AL130/S	NOZZLE HOLDER IT M1.5" DZ - ALUMINUM
2	MLN01565	P0497-68871	AL298	ORIGINAL NOZZLE HOLDER KIT M1.5" DXN - CERAMIC (RECOMMENDED)
3	MLN00670	D5241993	L757	SINGLE - 0.8MM NOZZLE - CYLINDRICAL
	MLN00288	D7945470	L141	SINGLE - 1.0MM NOZZLE - CYLINDRICAL
	MLN00581	D5241982	L758	SINGLE - 1.2MM NOZZLE - CYLINDRICAL
	MLN00289	D7945434	L142	SINGLE - 1.5MM NOZZLE - CYLINDRICAL
	MLN00290	D7945452	L143	SINGLE - 2.0MM NOZZLE - CYLINDRICAL
	MLN00291	D7945517	L144	SINGLE - 2.5MM NOZZLE - CYLINDRICAL
	MLN00292		L145	SINGLE - 3.0MM NOZZLE - CYLINDRICAL
	MLN00671	D5241993	L757X	SINGLE - 0.8MM NOZZLE - CYLINDRICAL - CHROME
	MLN 00672	D7945470	L141X	SINGLE - 1.0MM NOZZLE - CYLINDRICAL - CHROME
	MLN00673	D5241982	L758X	SINGLE - 1.2MM NOZZLE - CYLINDRICAL - CHROME
	MLN00674	D7945434	L142X	SINGLE - 1.5MM NOZZLE - CYLINDRICAL - CHROME
	MLN00675	D7945452	L143X	SINGLE - 2.0MM NOZZLE - CYLINDRICAL - CHROME
	MLN00676	D7945517	L144X	SINGLE - 2.5MM NOZZLE - CYLINDRICAL - CHROME
MLN00677		L145X	SINGLE - 3.0MM NOZZLE - CYLINDRICAL - CHROME	
4	MLN00555	P0492-702-00001, 29100021	AL198	INSULATING - PLASTIC
	MLN00685	P0492-702-00002	AL201	INSULATING - PLASTIC
5	MLN00034	40091071, 71366453	AL94	O'RING FOR NOZZLE OUTER

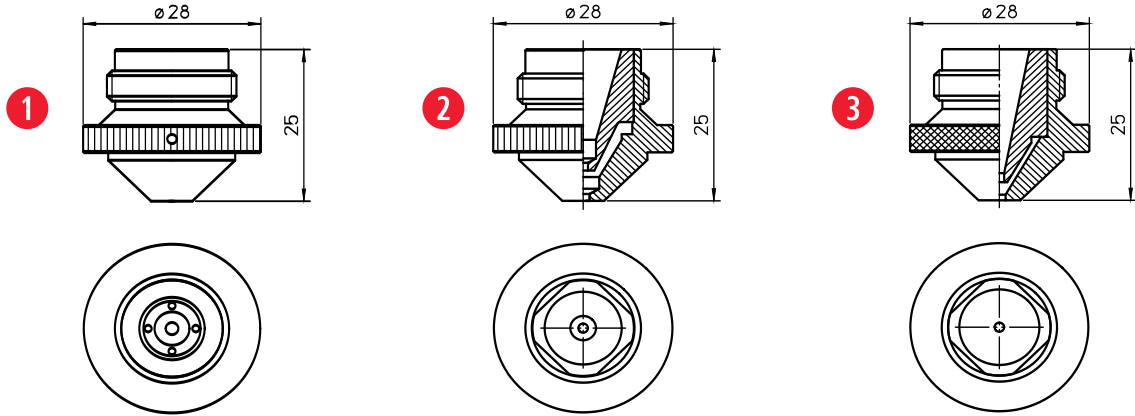
[Dimensions in Inches (mm)]





POS	MATE PART NUMBER	OEM CODE	ALTERNATE CODE	PART DESCRIPTION
1	MLN01564	P0571-1051-00001, 2910022685,	AL495	NOZZLE HOLDER KT B2" CON RECOMMENDED
2	MLN00293	D5241863	L151	SINGLE - 1.0MM HD - NOZZLE - CONICAL
	MLN00678		L759	SINGLE - 1.2MM HD - NOZZLE - CONICAL
	MLN00294	D5241862	L152	SINGLE - 1.5MM HD - NOZZLE - CONICAL
	MLN01566	D5242512	L748	SINGLE - 1.7MM HD - NOZZLE - CONICAL
	MLN00295	D5241855	L146	SINGLE - 2.0MM HD - NOZZLE - CONICAL
	MLN01567	D5242513, Z000000539D	L749	SINGLE - 2.3MM HD - NOZZLE - CONICAL
	MLN00296	D5241856, Z000000563B	L147	SINGLE - 2.5MM HD - NOZZLE - CONICAL
	MLN00297	D5241857, Z000000540	L148	SINGLE - 3.0MM HD - NOZZLE - CONICAL
	MLN00298	D5241877, Z000000564B	L149	SINGLE - 3.5MM HD - NOZZLE - CONICAL
	MLN01568	D5242531, Z000000566B	L1303	SINGLE - 4.5MM HD - NOZZLE - CONICAL
	MLN01569	D5242535, Z000000567B	L1304	SINGLE - 5.0MM HD - NOZZLE - CONICAL
	MLN01570	D5242536, Z000000568B	L1305	SINGLE - 6.0MM HD - NOZZLE - CONICAL
	MLN00971	D5241863	L151X	SINGLE - 1.0MM HD - NOZZLE - CONICAL CHROME
	MLN01572		L759X	SINGLE - 1.2MM HD - NOZZLE - CONICAL CHROME
	MLN00679	D5241862	L152X	SINGLE - 1.5MM HD - NOZZLE - CONICAL CHROME
	MLN00680	D5241855	L146X	SINGLE - 2.0MM HD - NOZZLE - CONICAL CHROME
	MLN01573	D5242513	L749X	SINGLE - 2.3MM HD - NOZZLE - CONICAL CHROME
	MLN00681	D5241856	L147X	SINGLE - 2.5MM HD - NOZZLE - CONICAL CHROME
	MLN00682	D5241857	L148X	SINGLE - 3.0MM HD - NOZZLE - CONICAL CHROME
	MLN00683	D5241877	L149X	SINGLE - 3.5MM HD - NOZZLE - CONICAL CHROME
MLN00684	D5241878	L283X	SINGLE - 4.0MM HD - NOZZLE - CONICAL CHROME	

[Dimensions in Inches (mm)]



POS	MATE PART NUMBER	OEM CODE	ALTERNATE CODE	PART DESCRIPTION
1	MLN01574	Z00005695, G8040180	L1290	DOUBLE - 2.5MM W/SPRING - 1.3MM INNER
	MLN01575	G8040135	L1291	DOUBLE - 2.5MM W/SPRING - 1.5MM INNER
	MLN01576	G8040132	L1292	DOUBLE - 3.0MM W/SPRING - 2.0MM INNER
	MLN01577	G8040182	L1293	DOUBLE - 3.0MM W/SPRING - 1.3MM INNER
	MLN01578		L1294	DOUBLE - 3.0MM W/SPRING - 1.5MM INNER
	MLN01579	G8040180	L1290X	DOUBLE - 2.5MM W/SPRING - 1.3MM INNER - CHROME
	MLN01580	G8040135	L1291X	DOUBLE - 2.5MM W/SPRING - 1.5MM INNER - CHROME
	MLN01581	G8040132	L1292X	DOUBLE - 3.0MM W/SPRING - 2.0MM INNER - CHROME
	MLN01582	G8040182	L1293X	DOUBLE - 3.0MM W/SPRING - 1.3MM INNER - CHROME
	MLN01583		L1294X	DOUBLE - 3.0MM W/SPRING - 1.5MM INNER - CHROME
2	MLN01584		L783	DOUBLE - 1.0MM NOZZLE
	MLN01585		L782	DOUBLE - 1.2MM NOZZLE
	MLN01586	29100304	L784	DOUBLE - 1.5MM NOZZLE
	MLN01587	29100307	L785	DOUBLE - 2.0MM NOZZLE
	MLN01588	29100305	L786	DOUBLE - 2.5MM NOZZLE
	MLN01589	29100306	L787	DOUBLE - 3.0MM NOZZLE
	MLN01591		L789	DOUBLE - 4.0MM NOZZLE
3	MLN00696	G8040131	L790	DOUBLE - 3MM 2 NOZZLE
	MLN01593	Z000001297	L885	DOUBLE - 4MM 2 NOZZLE
	MLN01594	Z000001344	L886	DOUBLE - 5MM 2 NOZZLE

[Dimensions in Inches (mm)]



PERFORMAX - STANDARD ABSORPTION LENSES					
MATE PART NUMBER	OEM CODE	TYPE	DIAMETER	FOCAL LENGTH	EDGE THICKNESS
MLL00006	29100023 , 406294	MENISCUS	1.5" (38.1mm)	5.0" (127.0mm)	.290" (7.3mm)
MLL00007	29100039 , 784964 , 29100030	MENISCUS	1.5" (38.1mm)	7.5" (190.5mm)	.290" (7.3mm)
MLL00008	294575 , 29100055 , 251964 , 695399	MENISCUS	2.0" (50.8mm)	7.5" (190.5mm)	.380" (9.65mm)
MLL00021	29100054 , 458138	MENISCUS	2.0" (50.8mm)	5.0" (127.0mm)	.380" (9.65mm)
	29100115 , 62208-117	MENISCUS	1.75" (44.5mm)	5.0" (127.0mm)	.354" (9.0mm)
MLL00081	29100061	MENISCUS	2.0" (50.8mm)	10.0" (254.0mm)	.380" (9.65mm)
MLL00018	291005-5	MENISCUS	2.0" (50.8mm)	7.5" (190.5mm)	.380" (9.65mm)
MLL00027	29100115	MENISCUS	2.0" (50.8mm)	5.0" (127.0mm)	.380" (9.65mm)

PEAK - LOW ABSORPTION LENSES					
MATE PART NUMBER	OEM CODE	TYPE	DIAMETER	FOCAL LENGTH	EDGE THICKNESS
MLP00006	29100023 , 312503	MENISCUS	1.5" (38.1mm)	5.0" (127mm)	.290" (7.3mm)
MLP00007	29100039 , 784964 , 29100030	MENISCUS	1.5" (38.1mm)	7.5" (190.5mm)	.290" (7.3mm)
MLP00021	29100054 , 458138	MENISCUS	2.0" (50.8mm)	5.0" (127mm)	.380" (9.65mm)
MLP00018	291005-5	MENISCUS	2.0" (50.8mm)	7.5" (190.5mm)	.380" (9.65mm)
MLP00027	29100115	MENISCUS	2.0" (50.8mm)	5.0" (127.0mm)	.380" (9.65mm)

BLACK MAGIC- LOW ABSORPTION LENSES					
MATE PART NUMBER	OEM CODE	TYPE	DIAMETER	FOCAL LENGTH	EDGE THICKNESS
MLB00006	29100023	MENISCUS	1.5" (38.1mm)	5.0" (127mm)	.290" (7.3mm)
MLB00007	29100039 , 784964 , 29100030	MENISCUS	1.5" (38.1mm)	7.5" (190.5mm)	.290" (7.3mm)
MLB00021	29100054 , 458138	MENISCUS	2.0" (50.8mm)	5.0" (127mm)	.380" (9.65mm)
MLB00018	291005-5	MENISCUS	2.0" (50.8mm)	7.5" (190.5mm)	.380" (9.65mm)
MLB00027	29100115	MENISCUS	2.0" (50.8mm)	5.0" (127.0mm)	.380" (9.65mm)

FIBERSHIELD - FIBER LASER PROTECTIVE WINDOWS					
MATE PART NUMBER	OEM CODE	TYPE	DIAMETER	FOCAL LENGTH	EDGE THICKNESS
MLW00004	29100264 , P0589-360-00001	FUSED SILICA	22.3mm		4mm
MLW00016	P0795-1201-0002	FUSED SILICA	30.0mm		5mm
MLW00014	29100397	FUSED SILICA	36.0mm		5mm

OPTICS CARE	
MATE PART NUMBER	DESCRIPTION
MLN00570	1.5" Polarizer Filter
MLN01105	Cleaning Holder w/ 1.5" Polarizer Filter
MLN01106	Cleaning Holder w/ 2.0" Polarizer Filter
MLN01104	Wet Cleaning Wipes - 24 Pack
MLN01996	Optical Cleaning Fluid - Spray
MLN01997	Lens Cleaning Paper - 50 Sheets
MLN01998	4x4 Polyester Wipes - 100 Pack
MLN02000	Lens Cleaning Swabs - 25 Pack
MLN01483	Lens / Mirror Cleaning Base
MLN00582	Lensmate Cleaning Paper - Booklet 4x6 Sheets

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Laser Technologies



Mate offers a complete range of state-of-the-art CO₂ and Fiber Laser optics and consumables to meet virtually any laser need. We offer over 2,000 competitively priced parts including lenses, windows, nozzles, cables and more. Our product line includes:

Wide Selection for all OEMs

- CO₂ Lenses
- Fiber Lenses
- Consumables

Purchase orders and all major credit cards accepted.



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[Dimensions in Inches (mm)]



MATE PRECISION TECHNOLOGIES GLOBAL COVERAGE

WORLDWIDE HEADQUARTERS:

1295 Lund Boulevard, Anoka, Minnesota 55303 USA
Tel +1.763.421.0230 mate.com

orders@mate.com