



LASER S.O.S. GROUP

TECHNOLOGY AND MARKET DRIVEN COMPANY!

DEIONIZATION CARTRIDGES & PARTICLE FILTERS

Issue 3.



Intelligent Solutions, Manufacturing & Development

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LASER S.O.S. GROUP

TECHNOLOGY AND MARKET DRIVEN COMPANY!

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RoHS and WEEE conformity statements

As a company, Laser SOS actively embraces its legal and environmental obligations outlined by the WEEE and RoHS directives. We see these regulations as a positive and responsible change to protect the environment.



RoHS

All products that are subject to the European Community directive 2002/95/EC supplied by Laser SOS from 1st July 2006 are compliant with the requirements. Such products are marked with the RoHS symbol (adjacent).



WEEE

All products that are subject to the WEEE Directive 2002/96/EC supplied by Laser SOS from 13th August 2005 are compliant with the WEEE marking requirements. Such products are marked with the “crossed out wheelie bin” WEEE symbol shown on the left in accordance with European Standard EN 50419. Our WEEE Producer registration number is WEE/EF0248QZ.

DEIONIZATION CARTRIDGES & PARTICLE FILTERS

For Lamp and Diode Pumped Laser Systems



Laser S.O.S. provides the solid state laser industry with a comprehensive range of Deionising Cartridges and Particle Filters. Available for most leading Brands of solid state lasers.

The cooling water used in lamp and diode solid state laser must be deionised. Systems should use steam distilled water or DI water. The quality of the water is maintained by the use of Particle Filters and Deionisation Cartridges. The Deionisation Cartridge maintains the resistivity of the water at 1 to 2 Meg Ohms/cm² which is required for efficient laser operation. Problems such as laser lamp ignition will result should the water purity drops below the required resistivity level.

Water quality should be checked regularly. It is highly recommended for systems that run 24/7 should typically replace the water every 6 months. Please also check validity dates on some of the deionisation.

Particle filters are fitted to prevent deposition of particulates and debris on to the pump cavity, laser lamp, flow tubes and the water cooling loop.

Item P/N	Description	Laser Rail	OEM P/N
AB LASER INC.			
PF9/BAASEL	Particle Filter	600, 2000, 6000	
PFSMD40	Particle Filter	SMD Diode Series, 230×35 mm	I41200137
PFMKFEU5I	Pre Filter MKF EU5I	StarWeld, 580×270×20 mm, I20103419	I41200101
AFLSW4002	Air Filter	LSW4001, 180×150×120 mm	I41200124
AFSWT	Air Filter	StarWeld Series, 67200-134	I41200138
AFSWT5002	Exhaust Filter	StarWeld 4002, 5002, 530×130×100 mm	I41200136
D228	DI Cartridge	2000, 6000	
D8822	DI Cartridge	600	
D6000	DI Combination Filter	2000, 6000, StarMark, StarWeld, StarCut 18	I001000-354, I41200030
D6000/AB	DI Combination Filter (excluding D.I. Resin)	2000, 6000, StarMark, StarWeld, StarCut 18	
DIRESIN100	DI Resin, 2.5 litres	2000, 6000, StarMark, StarWeld, StarCut 18	
PF400I	Particle Filter	LSW4001	
ALLTEC			
PF16	Particle Filter	LN30W, LN100W	
DIRESIN100	DI Resin, 2.5 litres	LN30W, LN100W	
ALPHA LASER			
ALALS133	Air Filter	ALS35, ALS35S, SL50 (Size 170×133×- 120 mm)	
ALALS145	Air Filter	ALS35, ALS35S, SL50 (Size 170×145×120 mm)	
D8000	DI Combination Filter (Recyclable)	S/H13, ALS35, ALS35S, SL50, SL75, SL100, SL150 – Please Enquire	
D8000/AB	DI Combination Filter (excluding D.I. Resin)	S/H13, ALS35, ALS35S, SL50, SL75, SL100, SL150 Please Enquire	
DI1008	DI Cartridge	ALS35, ALS35S, SL50, SL75, SL100, SL150	
AFALS75	Air Filter	ALS75, SL75, SL100, SL150 (Size 525×130×70 mm)	
AMERICAN LASER/ M.L.S./ SHARPLIGHT			
DIF205C	DI Cartridge	I.P.L. RANGE	
BAASEL LASERTECHNIK			
PF9/BAASEL	Particle Filter	600, 2000, 6000	
PFSMD40	Particle Filter	SMD Diode Series, 230×35 mm	I41200137
PFMKFEU5I	Pre Filter MKF EU5I	StarWeld, 580×270×20 mm, I20103419	I41200101
AFLSW4002	Exhaust filter	LSW4001, 180×150×120 mm	I41200124

Item P/N	Description	Laser Rail	OEM P/N
AFSWT	Air Filter	StarWeld Series, 67200-134	141200138
AFSWT5002	Exhaust Filter	StarWeld 4002, 5002, 530×130×100 mm	141200136
D228	DI Cartridge	2000, 6000	
D8822	DI Cartridge	600	
D6000	DI Combination Filter	2000, 6000, StarMark, StarWeld, StarCut	1001000-354, 141200030
D6000/AB	DI Combination Filter (excluding D.I. Resin)	2000, 6000, StarMark, StarWeld, StarCut	
DIRESINI100	DI Resin, 2.5 litres	2000, 6000, StarMark, StarWeld, StarCut	
PF4001	Particle Filter	LSW4001	

BAUBLYS/BAUBLYS CONTROL

PF5/456	Particle Filter	BL65 (5 inch)	
PF10/456	Particle Filter	BL100, BL150 (10 inch)	
PFICON	Particle Filter	Baublys ICON 90	
D8822	DI Cartridge	Baublys ICON 90	
D1002	DI Cartridge	BL65 (Old)	
D1006	DI Cartridge	BL100, BL150	
PF12	Particle Filter	BL65 (Old)	

BENTZY LASER

PF75	Particle Filter	Diamond Processing Laser	
D150	DI Cartridge	Diamond Processing Laser	

CHICAGO LASER

PF10	Particle Filter	CLS510, CLS512, CLS375, CLS520	
PFSS708	Particle Filter	CLS37W, CLS39, CLS907, CLS960, CLS977	
D8822	DI Cartridge	CLS510, CLS512, CLS375, CLS520	
D8832	DI Cartridge	CLS37W, CLS39, CLS902, CLS960, CLS977	

COHERENT

D8902	DI Cartridge	Coherent Antares M34, OMEGA	2603-0082
D50236	DI cartridge	Coherent Infinity	
PF10	Particle Filter	Coherent Infinity	2603-0084

CONTINUUM

D1001	DI Cartridge	Continuum FL Series (MPS-06-3/8 inlet)	
D1004	DI Cartridge	Continuum FL Series (XF6-1/8 inlet)	

CONTROL LASER

PF10	Particle Filter	510, 512, 513, 520, 612, 620, Instamark, Script, Elite, Emblem, Signature	200477
D8822	DI Cartridge	510, 512, 513, 520, 612, 620, Instamark, Script, Elite, Emblem, Signature, Icon, Insignia	72835

Item P/N	Description	Laser Rail	OEM P/N
CONVERGENT			
PF10	Particle Filter	Aurora P-10, P-50	
CRAFFORD PRECISION PRODUCTS			
D7000	Combination DI Filter (Recyclable)	LaserStar Series, Please Enquire	
D7000/AB	Combination DI Filter (excluding D.I. Resin)	LaserStar Series, Please Enquire	
DILASERSTAR	Combination DI Filter	LaserStar Series	
CHROMATRON			
PFACHROM	Particle Filter	Induwrite	
DEK			
PF12	Particle Filter	Spectron SL50IQ, SL50ITQ	
D1002	DI Cartridge	Spectron SL50IQ, SL50ITQ	
ELECTROX			
PFN10/02	Particle Filter, 0.2 mm	Diode Laser, 0.2 mm	
PFN10	Particle Filter, 30 mm	Scriba I and II	
D180	DI Cartridge	Diode laser	
D8822	DI Cartridge	Scriba I and II	
D8832	DI Cartridge	RayMarker	
E.S.I.			
PF10	Particle Filter	25, 44 (Control Laser)	
PF10/20	Particle Filter	3570, 3572, 3573	
PF10/5MICRON	Particle Filter	4000A, 4200	
PFES1100	Particle Filter	5100 PC Board Driller	
DES15100	DI Cartridge	5100 PC Board Driller	
D8822	DI Cartridge	25, 44, 3572, 37573, 4000A, 4200	
FLOROD			
PF10	Particle Filter	40, 41, 42, 70	
D8822	DI Cartridge	40, 41, 42, 70	

Item P/N	Description	Laser Rail	OEM P/N
FOBA			
PF16	Particle Filter	LN30W, LN100W	
DIRE SIN100	DI Resin, 2.5 litres	LN30W, LN100W	
FOTONA			
PF30	Particle Filter	YAG-22	
D8822	DI Cartridge	YAG-22	
FOX LASERS			
PF30	Particle Filter	7400	
D8811	DI Cartridge	7400	
GENERAL SCANNING			
PFSS708	Particle Filter	400, 800, 6000	
D700	DI Cartridge	400, 800, 6000	
GRETAG			
PF12	Particle Filter	6210, 6211	
DI002	DI Cartridge	6210, 6211	
GSI LUMONICS			
DIRE SIN100	DI Resin, 2.5 litres	JK 701, 702, 704, 706	
D8811	DI Cartridge	WaferMark 345, II	3010004
D8822	DI Cartridge	Lightwriter	
D8951	DI Cartridge	Lightwriter	
PF30	Particle Filter	WaferMark	3010003
PFICON	Particle Filter	LightMarker	
DI007	Particle Filter	Luxstar	
HAAS LASER			
PF12	Particle Filter	Vector Mark	
DI002	DI Cartridge	Vector Mark	
D240	DI Cartridge	Pulsed & CW Lasers	
HAHN & KOLB			
PF12	Particle Filter	Enigma (Old)	
DI002	DI Cartridge	Enigma (Old)	
PF5/456	Particle Filter (5 inch)	Enigma	
PF10/456	Particle Filter (10 inch)	Enigma	
DI006	DI Cartridge	Enigma	

Item P/N	Description	Laser Rail	OEM P/N
HK TECHNOLOGIES			
PF12	Particle Filter	Enigma (Old)	
DI1002	DI Cartridge	Enigma (Old)	
PF5/456	Particle Filter (5 inch)	Enigma	
PF10/456	Particle Filter (10 inch)	Enigma	
DI1006	DI Cartridge	Enigma	
HOLOBEAM			
Item P/N	Description	Laser Rail	OEM P/N
PF9	Particle Filter	255, 256, 257, 258, 2250, 2660	
D8822	DI Cartridge	255, 256, 257, 258, 2250, 2660	
INNOLAS			
PF5/456	Particle Filter (5 inch)	1000, 2000, Enigma	
PF10/456	Particle Filter (10 inch)	1000, 2000, Enigma	
DI1006	DI Cartridge	1000, 2000, Enigma	
ISKRA			
PF12	Particle Filter	YAG-22	
DI1002	DI Cartridge	YAG-22	
JK LASER			
DIRESIN100	DI Resin, 2.5 litres	JK700, 701, 702, 704, 706	
PFJK	Particle Filter	JK700, 701, 702, 704, 706	S50000101
LASAG			
DIRESIN100	DI Resin, 2.5 litres	KLS 246-040, KLS 016, 111,126, LAK 100-101, LAK 301-302, LAK 321-322, FLS 342, LAK 400-401, S01-502, 521-522, LAK601	
LASER APPLICATIONS			
PF10	Particle Filter	9555, 9560, 95100, 95150, 94100	
D0803	DI Cartridge	95100, 95150, 94100	
D8832	DI Cartridge	9555, 9560	

Item P/N	Description	Laser Rail	OEM P/N
LASER IDENTIFICATION SYSTEMS			
PF30	Particle Filter	Wafer Mark 345, II	
D8811	DI Cartridge	Wafer Mark 345, II	
LASER OPTONICS			
PF10	Particle Filter	747, 757, 767	
D2002	DI Cartridge	747, 757, 767, 777	
LASERSCOPE			
D1001	DI Cartridge	Aura, Lyra, Infinity	
LASIT			
PF08315	Particle Filter	Diode Fly Marker	
PF15	Particle Filter	Easy Mark, Flexi Mark	
D50237	DI Cartridge	Diode Fly Marker	
LASERVALL			
D1001	DI Cartridge	Diode Pumped YAG	
LEE LASER			
PFSS708	Particle Filter	708, 712, 718, 808, 812, 818	
D700	DI Cartridge	708, 712, 718, 808, 812, 818	1200013
D8832	DI Cartridge	715, 718, 808, 812, 818, 825	1200032
D888	DI Cartridge	Diode Laser LDP-200	
PF5/5MICRON	Particle Filter	Diode Laser LDP-200	
LPKF			
D6000	Combination Filter	StarCut 18	
D6000/AB	Combination Filter (excluding D.I. Resin)	StarCut 18	
LS LASER SYSTEM			
DIRE SIN100	DI Resin, 2.5 litres	LS-3.5, LS8000, MLS035, MLS7032	
LUMENIS			
DIF203	DI Cartridge	Epitouch	
MLS			
DIRE SIN100	DI Resin, 2.5 litres	MLS035, MLS7032	

**DEIONIZATION
CARTRIDGES
& PARTICLE FILTERS**

For Lamp and Diode Pumped Laser Systems

Intelligent Solutions, Manufacturing & Development

Item P/N	Description	Laser Rail	OEM P/N
N.W.L.			
PF12	Particle Filter	Meltemi, Levante	
D1002	DI Cartridge	Meltemi, Levante	
ORZIV			
PF30	Particle Filter	2001	
D8822	DI Cartridge	2001	
PF5/456	Particle Filter	Orziv Express	MPI01796MS
D1006	DI Cartridge	Orziv Express	
POLARIS			
D1009	DI Cartridge	Dye Laser Series	
POSITIVE LIGHT			
PF9	Particle Filter	Merlin	
DMP10	DI Cartridge	Merlin	
QUANTA RAY			
PF75HD05	Particle Filter	DCR3, GCR	
PFDCR	Particle Filter	DCR2	
D8950	DI Cartridge	DCR/GCR	
QUANTRAD			
PF10	Particle Filter	1733, 1969	
D8832	DI Cartridge	9555, BLAZER 2000, COMET, GALAXY	
QUANTRONIX			
PF30	Particle Filter	114, 116, 117, 118	2802-00254
PF5	Particle Filter	114, 116, 117, 118	3002-01224
PFICON	Particle Filter	114, 116, 117, 118	
D8811	DI cartridge	114, 116, 117, 118	3002-01194
D8822	DI Cartridge	114, 116, 117, 118	3002-01062
RAYTHEON			
PFSS500	Particle Filter	SS500, 525, 531, 550	U20A10U
DSS500	DI Cartridge	SS500, 525, 531, 550	MRX-I

Item P/N	Description	Laser Rail	OEM P/N
ROFIN BAASEL			
PF9/BAASEL	Particle Filter	600, 2000, 6000	
PFSMD40	Particle Filter	SMD Diode Series, 230×35 mm	141200137
PFMKFEU51	Pre Filter MKF EU51	StarWeld, 580×270×20 mm, 120103419	141200101
AFLSW4002	Exhaust Filter	LSW4001, 180×150×120 mm	141200124
AFSWT5002	Exhaust Filter	StarWeld 4002, 5002, 530×130×100 mm, 67200-131	141200136
AFSWT	Air Filter	Rofin Baasel StarWeld Series, 290×140×95 mm	141200138
D228	DI Cartridge	2000, 6000	
D8822	DI Cartridge	600	
D6000	DI Combination Filter	2000, 6000, StarMark, StarWeld, StarCut	1001000-354, 141200030
D6000/AB	DI Combination Filter (excluding D.I. Resin)	2000, 6000, StarMark, StarWeld, StarCut	
DIRE SINI 100	DI Resin, 2.5 litres	2000, 6000, StarMark, StarWeld, StarCut	
ROFIN SINAR			
PF10/5MICRON	Particle Filter	8070, 815, 860, RSY90Q, RSY120Q	719301
D2002	DI Cartridge	8070, 815, 860, RSY90Q, RSY120Q	719310
PFA8	Particle Filter Assembly	402287, 402286	
SIEMENS			
PF10	Particle Filter	Silamatic	
D8822	DI Cartridge	Silamatic	
SIRO LASERTEC			
AFALS133	Air Filter	Siro ALS35, ALS35S, SL50, Thunder, Tornado, Hurricane, Thunderstorm (170×133×120 mm)	
AFALS145	Air Filter	Siro ALS35, ALS35S, SL50, SL75, SL150, Thunder, Tornado, Hurricane, Thunderstorm (170×145×120 mm)	
D8000	DI Combination Filter (Recyclable)	ALS35, ALS35S, SL50, SL75, SL150, Thunder, Tornado, Hurricane, Thunderstorm – Please Enquire	
D8000/AB	DI Combination Filter (excluding DI Resin)	ALS35, ALS35S, SL50, SL75, SL150, Thunder, Tornado, Hurricane, Thunderstorm – Please Enquire	
D1008	DI Cartridge	ALS35, ALS35S, SL50, SL75, SL150, Thunder, Tornado, Hurricane, Thunderstorm	
AFALS75	Air Filter	ALS75, SL75, SL150	
SPECTRA PHYSICS			
PF10	Particle Filter	3000	
D8822	DI Cartridge	3000	
D700	DI Cartridge	3400, 3800	
PF75HD05	Particle Filter	DCR3, GCR	
PFDCR	Particle Filter	DCR	
D8950	DI Cartridge	DCR/GCR	

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Item P/N	Description	Laser Rail	OEM P/N
SPECTRON LASER			
PF12	Particle Filter	SL502, SL901, SL902	
PF5/456	Particle Filter (5 inch)	SL502, SL901, SL902, SL904	MPI01796MS
PF10/456	Particle Filter (10 inch)	SL502, SL901, SL902, SL904	MP010768MS
D1002	DI Cartridge	SL502, SL901, SL902	
D1006	DI Cartridge	SL502, SL901, SL902, SL904	
TERADYNE			
PF10	Particle Filter	311, H-507, 411, H-514, WD411	
PF30	Particle Filter	M118, W419, W421, W429	
D8832	DI Cartridge	W614, W670	
D8811	DI Cartridge	W419, W421, W429	
PFSS708	Particle Filter	W614, W670	
D8822	DI Cartridge	311, H-507, 411, H-514, WD411	
TOSHIBA			
D2011	DI Cartridge	Toshiba	
TRUMPF			
PF12	Particle Filter	Vector Mark	
D1002	DI Cartridge	Vector Mark	
D240	DI Cartridge	Pulsed & CW Lasers	
UNIVERSAL LASERS			
PFSS708	Particle Filter	708, 712, 808, 812	
D700	DI Cartridge	708, 712, 808, 812	

If your DI Cartridge or Particle Filter are not listed, please provide us with the original parts for sourcing.



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