

LASER S.O.S. GROUP

TECHNOLOGY AND MARKET DRIVEN COMPANY!

LASER CRYSTALS

Nd:YAG, Nd:YLF,
ALEXANDRITE & RUBY

Issue 1.



Intelligent Solutions, Manufacturing & Development

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LASER S.O.S. GROUP

TECHNOLOGY AND MARKET DRIVEN COMPANY!

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LASER CRYSTALS

Nd:YAG, Nd:YLF, ALEXANDRITE & RUBY

For All Solid State Laser Systems



Neodymium doped Yttrium Aluminium Garnet (Nd:YAG) is the most commonly used solid-state lasing medium for flash/CW lamp and diode pumped laser systems. Nd:YAG has relatively good optical absorption and conversion efficiency, low lasing threshold and good thermal dissipation, and high optical damage threshold suitable for high power operation.

To optimize the beam quality and maximize the output power it is required to select the correct Nd dopant level. Typically low multimode output will yield low multimode output power but provides a superior fundamental mode (TEM₀₀) quality. A medium level of dopant will yield higher multimode output power with a good quality beam (TEM₀₁) mode. A higher level of dopant will provide maximum multimode power but beam quality will suffer. YAG rods at maximum dopant level are predominantly used for pulsed lasers where peak power is required and the beam quality is maintained by using collimating optics or fiber optic delivering systems.

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Item Part Number	Description	Laser Rail
AB Laser INC.		
YR479	4 mm × 79 mm, Multimode	StarMark SM65, SM90, 600, 2000, 6000 Series
YRA6479	4 mm × 79 mm, Mounted	600, 2000, 6000 Series
YR512	4 mm × 79 mm, TEM ₀₀	600, 2000, 6000 Series, Star Mark SM65, SM90
YRA6512	4 mm × 79 mm, Mounted, TEM ₀₀	600, 2000, 6000 Series
YRA633	4 mm × 79 mm, Mounted	StarMark SM65, SM90
YR254	6.35 mm × 105 mm Pulsed	Starweld 4001, 4002, 5001, 6001, SC18
YR2540	6.35 mm × 105 mm, F/CX	Baasel, P/N 101101750, 101101749
YR254CVX	6.35 mm × 105 mm, Flat/CC	Starweld, P/N 101101767
YRA7000	6.35 mm × 105 mm, Mounted	Starweld 4001, 4002, 5001, 6001
YR579	5 mm × 79 mm, Multimode (Upgrade)	StarMark SM65, SM90
YRA634	5 mm × 79 mm, Mounted (Upgrade)	StarMark SM65, SM90
YR4125	4 mm × 125 mm, TEM ₀₀	StarMark 150W
YRASTAR4125	4 mm × 125 mm, Mounted	StarMark 150W
YR5125	5 mm × 125 mm, Multimode	StarMark 150W
YRASTAR150	5 mm × 125 mm, Mounted	StarMark 150W
YRASCI8	6.35 mm × 105 mm, Mounted	Baasel SC18
ALEX5111	5 mm × 111 mm, Alexandrite	Alexandrite EpiXan BLM 1000AX
ADRON		
YR38150	9.525 mm × 150 mm	High Power Pulsed Laser
ADVANCED LASER		
YR479	4 mm × 79 mm, Multimode	Lee Laser 712
YRA712	4 mm × 79 mm, Mounted	Lee Laser 712
ALLIED/APOLLO		
YR6354	6.35 mm × 4" (102 mm)	High Power Pulsed Laser
YR14614	6.35 mm × 6.25" (159 mm)	High Power Pulsed Laser
ALPHA LASER		
YR254	6.35 mm × 105 mm Pulsed	Alpha ALS35, ALS35S, ALS75
YRA254	6.35 mm × 105 mm Mounted	Alpha ALS35, ALS35S, ALS75

Item Part Number	Description	Laser Rail
APOLLO		
RUBY343	¾" × 3"	Apollo
RUBY18	1" × 8"	Apollo
RUBY1344	1¾" × 4"	Apollo
AUREL		
YR512	4 mm × 79 mm	NAVS2
BAASEL LASERTECHNIK		
YR479	4 mm × 79 mm, Multimode	600, 2000, 6000 Series, StarMark SM65, SM90
YRA6479	4 mm × 79 mm, Mounted	600, 2000, 6000 Series
YR512	4 mm × 79 mm, TEM ₀₀	600, 2000, 6000 Series, StarMark SM65, SM90
YRA6512	4 mm × 79 mm, Mounted	600, 2000, 6000 Series
YRA633	4 mm × 79 mm, Mounted	StarMark SM65, SM90
YR4125	4 mm × 125 mm, TEM ₀₀	StarMark 150W
YRA634	5 mm × 79 mm, Multimode (Upgrade)	StarMark SM65, SM90
YR9555	5 mm × 79 mm, Mounted (Upgrade)	StarMark SM65 SM90
YRASTAR4125	5 mm × 125 mm, Mounted	StarMark 150W
YR5125	5 mm × 125 mm, Multimode	StarMark 150W
YRASTARMARK150	5 mm × 125 mm, Mounted	StarMark 150W
YR2540	6.35 mm × 105 mm, F/CX	Bassel P/N 101101750, 101101749
YR254	6.35 mm × 105 mm Pulsed	StarWeld 4001, 4002, 5001, 6001, SC18
YR254CVX	6.35 mm × 105 mm, Flat/CC	StarWeld, P/N 101101767
YRASCI8	6.35 mm × 105 mm, Mounted	Bassel SC18
YRA7000	6.35 mm × 105 mm, Mounted	StarWeld 4001, 4002, 5001, 6001
ALEX5111	5 mm × 111 mm, Alexandrite	Alexandrite EpiXan BLM 1000AX
BAUBLYS CONTROL LASER		
YR5130	5 mm × 130 mm	Baublys 120W
YR4181	4 mm × 181 mm	Baublys PCBL4-3, BL150W, Spectron SL13020
YR270	4 mm × 105 mm	Baublys BL65, Spectron SL902, SL902Q, SL903, SL903Q
B.M.I.		
YR37545	9.525 mm × 4.5" (114 mm)	High Power Pulsed Laser
B.O.C.		
YR369	3 mm × 69 mm	101, 102
YR569	5 mm × 69 mm	103
YR201	6.35 mm × 3.125" (79 mm)	201, 203, High Power Pulsed Laser

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Item Part Number	Description	Laser Rail
CHICAGO LASER		
YR510	4 mm × 54 mm	CLS510, Control 510
YRA510	4 mm × 54 mm, Mounted	CLS510, Control 510
YR512	4 mm × 79 mm	CLS375, CLS39, CLS977, CLS907, CLS960, Control 512, Lee 708
YRA512	4 mm × 79 mm, Mounted	CLS512, CLS375, Control 512, 514
YR258	3 mm × 79 mm	CLS375, CLS39, Control 520, Lee 712
YRA258	3 mm × 79 mm, Mounted	CLS520, CLS375, Control 520
YRA708	4 mm × 79 mm, Mounted	CLS39, CLS977, CLS907, CLS960, Lee708
YRA712	3 mm × 79 mm, Mounted	CLS375, CLS39, Lee 712
CHROMATRON		
YRA811	4 mm × 105 mm, Mounted	Induwrite 100 Watt
CLEAN LASER		
YR479	4 mm × 79 mm	CWQ2025
YR9555	5 mm × 79 mm	CWQ2040
YR715	4 mm × 108 mm	CWQ2045
CONTINUUM		
YR6115	6 mm × 115 mm	SureLite
YR60115	6 mm × 115 mm	Powerlite 8000
YR952115	9.52 mm × 115 mm	Powerlite 8000
COHERENT		
YR101524	10 mm × 152.4 mm	M34
CONTROL LASER		
YR510	4 mm × 54 mm	510, 511, H-507
YRA510	4 mm × 54 mm Mounted	510, 511, H-507
YR479	4 mm × 79 mm, Multimode	512, 513, 520, 612, Instamark, Elite, Emblem, Script, Icon
YRA479	4 mm × 79 mm	512, 513, 520, 612, Instamark, Elite, Emblem, Script
YR512	4 mm × 79 mm, TEM ₀₀	512, 513, H-S 14, 612
YRA512	4 mm × 79 mm, Mounted	512, 513, H-S 14, 612

Item Part Number	Description	Laser Rail
YRA514	4 mm × 79 mm, Mounted	514
YRA520	4 mm × 79 mm, Mounted	520
YR258	3 mm × 79 mm, TEM ₀₀	520, 620
YRA258	3 mm × 79 mm, Mounted	520
YRA620	3 mm × 79 mm, Mounted	620
YR270	4 mm × 105 mm	512 PLUS, Script 100, Signature 100
YRA2700	4 mm × 105 mm, Mounted	512 PLUS, Script 100, Signature 100
YR530	6.35 mm × 4.125" (105 mm)	530, 531, 532, 534, 536, 630
YRA530	6.35 mm × 4.125", Mounted	530, 531, 532, 534, 536, 630
YR400	9.525 mm × 4.5" (115 mm)	400, 428, 438, 440-8, 480-16
YRA400	9.525 mm × 4.5" (115 mm), Mounted	400, 428, 438, 440-8, 480-16
YRAICON	4 mm × 79 mm Mounted	Icon

CRAFFORD PRECISION PRODUCTS

YRA7000	6.35 mm × 105 mm, Mounted	Laser Star, 7000
YR254	6.35 mm × 105 mm	Laser Star, 7000

CYNOSURE

ALEX635120	6.35 mm × 120 mm, Alexandrite	Cynosure Photo Genica T10
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C.V.I. LASER

YR375	3 mm × 75 mm	C95
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DEK LASER

YR479	4 mm × 79 mm	Laser Trimmer, Spectron SL501Q, SL501TQ
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ELECTROX

YR51524	5 mm × 152 mm	Scriba II, 120W
YR5101607	5 mm × 101.6 mm	Scriba I, 85W

E.S.I.

YR510	4 mm × 54 mm	25,44, Control 510
YRA510	4 mm × 54 mm, Mounted	25,44, Control 510
YR512	4 mm × 79 mm	44.3573, Control 512, 514
YRA512	4 mm × 79 mm, Mounted	44, Control 512
YR258	3 mm × 79 mm	44, 80, 2000, 3570, 3571, 3572, 4000A,4200, Control 520
YRA258	3 mm × 79 mm, Mounted	44, Control 520
YRA570	3 mm × 79 mm, Mounted	44, 80, 2000, 2570, 3571, 3572, 4000A,4200
YRA573	4 mm × 79 mm, Mounted	44, 3573, 4000A, 4200

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Item Part Number	Description	Laser Rail
EXCALIBUR		
YR1173B	3 mm × 108 mm, TEM ₀₀	XLS572
YRA1173	3 mm × 108 mm, Mounted	XLS572
FOBA		
YR4117	4 mm × 117 mm	Fobalas 90MK DT, 945, 845
FOTONA		
YR270	4 mm × 105 mm	YAG22
FLOROD		
YR512	4 mm × 79 mm	40, 41, 42, 70, MEL 40
YRA512	4 mm × 79 mm, Mounted	40, 41, 42, 70
YRA708	4 mm × 79 mm, Mounted	MEL 40
FOX LABS		
YR369	3 mm × 69 mm	7400, Quantronix 114
YRA1143	3 mm × 69 mm, Mounted	7400, Quantronix 114
GENERAL SCANNING		
YR718	4 mm × 108 mm	Hi-Mark 400, 800, 6000
YRA718	4 mm × 108 mm, Mounted	Hi-Mark 400
YRA818	4 mm × 108 mm, Mounted	Hi-Mark 400, 800, 6000
GRETAG		
YR270	4 mm × 105 mm	6210, 6211, Spectron SL902, SL902Q, SL903, SL903Q
GSI LUMONICS		
YR38614	9.525 mm × 6.25", Unmounted	GSI Lumonics MS330, MS830, JK701, JK704, I2250220A
YRA5000	9.525 mm × 6.25", Mounted	GSI Lumonics MS330, MS830, JK701, JK704
YR512	4 mm × 79 mm, TEM ₀₀	WaferMark 345, II, Softmark, Lightwriter
YRA1164	4 mm × 79 mm, Mounted	WaferMark 345, II, Softmark, Lightwriter
YR8193	8 mm × 193 mm, Unmounted	GSI Lumonics Multiwave I225110YA
YR14614	6.35 mm × 158.75 mm, Unmounted	GSI Lumonics JK702, JK703, I2250430A

Item Part Number	Description	Laser Rail
YR201	6.35 mm × 3.125" (79 mm)	JK 2000
YR4762	4 mm × 76.2 mm	JK HY750
YR3762	3 mm × 76.2 mm	JK HY200
RUBYHLS4	3/8" × 8", Ruby	JK HLS-4

G.T.E.

YR150275	3.81 mm × 2.75" (70 mm)	606
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HAHN & KOLB

YR270	4 mm × 105 mm	Enigma
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HK TECHNOLOGIES

YR270	4 mm × 105 mm	Enigma
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HASS

YR257	6.35 mm × 178 mm, Unmounted	HL353D, HL506D, HL703D, HLI033D, HLI504D, HL2006D, HL3006D, HL4006D
YRA257	6.35 mm × 178 mm, Mounted	HL353D, HL506D, HL703D, HLI033D, HLI504D, HL2006D, HL3006D, HL4006D
NDGLASSLAG15	6 mm × 185 mm	LAG15

HOLOBEAM

YR510	4 mm × 54 mm, TEM ₀₀	255.256
YRA510	4 mm × 54 mm, Mounted	255.256
YR258	3 mm × 79 mm, TEM ₀₀	257.258
YRA258	3 mm × 79 mm, Mounted	257.258
YR530	6.35 mm × 4.125" (105 mm)	2660
YRA530	6.35 mm × 4.125" (105 mm)	2660
RUBY383	3/8" × 3", Ruby	Holobeam 600 Series
RUBY123	1/2" × 3", Ruby	Holobeam 600 Series
RUBY386	3/8" × 6", Ruby	Holobeam 600 Series
RUBY126	1/2" × 6", Ruby	Holobeam 600 Series
RUBY346	3/4" × 6", Ruby	Holobeam 600 Series
RUBY348	3/4" × 8", Ruby	Holobeam 600 Series

HYSOL/PARTRIDGE LASERS

YR479	4 mm × 79 mm	HM60
YR270	4 mm × 105 mm	HM100

I.L.M.

YR400	9.525 mm × 4.5" (114 mm)	High Power Pulsed Laser
YR14614	6.35 mm × 6.25" (159 mm)	High Power Pulsed Laser

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Item Part Number	Description	Laser Rail
YR14412	6.35 mm × 4.5" (114 mm)	CW
YR38614	9.525 mm × 6.25" (159 mm)	High Power Pulsed Laser

IMPAQ

YR479	4 mm × 79 mm	80 Watt, CWQ2025
YR9555	5 mm × 79 mm	100 Watt, CWQ2040
YR715	4 mm × 108 mm	120 Watt, CWQ2045

INNOLAS

YR270	4 mm × 105 mm	1000, 2000, Enigma
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JEC LASER

YR510	4 mm × 54 mm	1020.1028
YR479	4 mm × 79 mm	1024
YR484	4 mm × 84 mm	3500

JK LASER

YR201	6.35 mm × 3.125" (79 mm)	JK 2000
YR38614	9.525 mm × 6.25" Unmounted	JK701, JK704, 12250220A
YRA5000	9.525 mm × 6.25", Mounted	JK701, JK704
YR4762	4 mm × 76.2 mm Unmounted	JK HY750
YR14614	6.35 mm × 158.75 mm Unmounted	JK702, JK703, 12250430A
YR3762	3 mm × 76.2 mm Unmounted	JK HY200
RUBYHLS4	3/8" × 8", Ruby	JK HLS-4

KORAD LASERS

YRKY5	5 mm × 3.25" (83 mm)	KY5
YR3840	9.525 mm × 4.0" (102 mm)	High Power Pulsed Laser

LASAG

YR201	6.35 mm × 79 mm	LAK101, KLS111, LAK100, KLS016
YRALAK101	6.35 mm × 79 mm, Mounted	LAK101, KLS111, LAK100, KLS016
YR256	6.35 mm × 155 mm	LAK301-302, LPM301-302, KLS321, KLS322, LAK400-401
YRALAK400	6.35 mm × 155 mm, Mounted	LAK400-401
YR500	9.525 mm × 155 mm	LAK601

Item Part Number	Description	Laser Rail
YR4768	4 mm × 76.8 mm	KLS246
YRA342	4 mm × 76.8 mm, Mounted	KLS246

LASER APPLICATIONS/LASERMETRICS

YR253	6.35 mm × 3" (76 mm)	9430
YR510	4 mm × 54 mm	9530
YRA510	4 mm × 54 mm, Mounted	9530
YR512	4 mm × 79 mm, TEM ₀₀	9560
YRA512	4 mm × 79 mm, Mounted	9560
YR479	4 mm × 79 mm, Multimode	9550
YRA479	4 mm × 79 mm, Mounted	9550
YR9555	5 mm × 79 mm, Multimode	9555
YRA9555	5 mm × 79 mm, Mounted	9555
YR14412	6.35 mm × 4.5" (114 mm)	95100
YR400	9.525 mm × 4.5" (114 mm)	94100
YR3830	9.525 mm × 3.0" (76 mm)	9334
YR38614	9.525 mm × 6.25" (159 mm)	9364

LASER IDENTIFICATION SYSTEM

YR512	4 mm × 79 mm, TEM ₀₀	WaferMark 345, II, Softmark, Lightwriter
YRA1164	4 mm × 79 mm, Mounted	WaferMark 345, II, Softmark, Lightwriter

LASER OPTRONICS

YRA747	4 mm × 79 mm, Mounted	747
YR479	4 mm × 79 mm	767, EverMark 8070, 815, 860
YRA767	4 mm × 79 mm, Mounted	767, EverMark 8070, 815, 860
YR579	5 mm × 79 mm	757
YRA757	5 mm × 79 mm, Mounted	757

LASER SOS

YRAMWL50	7 mm × 115 mm, Mounted	MWL-50, MWL-80
YR7453	7 mm × 115 mm	MWL-50, MWL-80

LASERVALL

YR625105	6.25 mm × 105 mm	PL50
YRAPL50	6.25 mm × 105 mm, Mounted	PL50
YR7115	7 mm × 115 mm	Compac
YR53	5 mm × 3"	JL15
YRAJL15	5 mm × 3", Mounted	JL15

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Item Part Number	Description	Laser Rail
LASIT		
YR4108	4 mm × 108 mm	EasyMark, FlexMark 80W
YRA4105	4 mm × 108 mm, Mounted	EasyMark, FlexMark 80W
YR5108	5 mm × 108 mm	EasyMark, FlexMark 120W
YRA955	5 mm × 108 mm, Mounted	EasyMark, FlexMark 120W
LASITRON		
YR484	4 mm × 84 mm	60 Watts CW
YR4112	4 mm × 112 mm	80 Watts CW
L.B.T.		
YR479	4 mm × 79 mm	50 Watts CW
YR270	4 mm × 105 mm	100 Watts CW
LEE LASER		
YR258	3 mm × 79 mm, TEM ₀₀	712
YRA712	3 mm × 79 mm, Mounted	712
YR512	4 mm × 79 mm, TEM ₀₀	708, 808, 812
YRA708	4 mm × 79 mm, Mounted	708
YR718	4 mm × 108 mm, TEM ₀₀	718, 815, 818
YRA718	4 mm × 108 mm, Mounted	718
YR715	4 mm × 108 mm, CW	715
YRA715	4 mm × 108 mm, Mounted	715
YRA808	4 mm × 79 mm, Mounted	808
YR479	4 mm × 79 mm	812, 850
YRA812	4 mm × 79 mm, Mounted	812, 850
YRA818	4 mm × 108 mm, Mounted	818, 825
YR9555	5 mm × 79 mm	875
YRA875	5 mm × 79 mm, Mounted	875
L.P.K.F.		
YR254	6.35 mm × 105 mm	Baasel 4001, SC18
YRASC18	6.35 mm × 105 mm, Mounted	Baasel SC18

Item Part Number	Description	Laser Rail
LS LASER SYSTEMS		
YR485	4 mm × 85 mm	MLS035, LS8000, MLS7032
LUMENIS		
ALEX6112	Alexandrite Rod, 6 mm × 112 mm	Epi-touch 5100
MIYACHI		
YR2587	6.35 mm × 87 mm	LW10
YRA887	8 mm × 87 mm	LW15
YR7127	7 mm × 127 mm	LW50A
YR8127	8 mm × 127 mm	LW70A
YR8112	8 mm × 112 mm	LW51, LW52
YR10110	10 mm × 110 mm	LW100
YR8155	8 mm × 155 mm	LW250, LW400
YR10157	10 mm × 157 mm	LW300
MLS		
YR485	4 mm × 85 mm	MLS035, LS8000, MLS7032
N.E.C.		
YR365	3 mm × 65 mm	SL114K, SL114LK, SL114L
YRA432	3 mm × 65 mm, Mounted	SL114K, SL114LD, SL114L
YR479	4 mm × 79 mm	SL432, SL434, SL435
YRA434	4 mm × 79 mm, Mounted	SL432, SL434, SL435
YR530	6.35 mm × 4.125" (105 mm)	SL473E, SL115L, SL115K, SL115LD
YR715	4 mm × 108 mm	SL475K
YRASL475	4 mm × 108 mm, Mounted	SL475K
N.W.L.		
YR270	4 mm × 105 mm	N.W.L. Dali, Maestro, Minstral
ORZIV		
YR1173A	3 mm × 108 mm, TEM ₀₀	Orziv 2001
YRA1173	3 mm × 108 mm, Mounted	Orziv 2001
YR270	4 mm × 105 mm	Orziv Express
PHOTON ENERGY		
YR479	4 mm × 79 mm	Photon Energy Draco 80W
YR270	4 mm × 105 mm	Photon Energy Draco 100W

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Item Part Number	Description	Laser Rail
PM INDUSTRIES		
YR510	4 mm × 54 mm	45200300
QUANTEL		
YR9160	9 mm × 160 mm	High Power Pulsed Laser
QUANTRAD		
YR510	4 mm × 54 mm	1733
YRA510	4 mm × 54 mm, Mounted	1733
YR479	4 mm × 79 mm	1969
YRA479	4 mm × 79 mm, Mounted	1969
YR9555	5 mm × 79 mm	Blazer 2000, Comet
YRA9555	5 mm × 79 mm, Mounted	Blazer 2000, Comet
QUANTRONIX/EXCEL		
YR369CC	3 mm × 69 mm, TEM ₀₀ , -1m/-1m CC	114602603
YRA1143	3 mm × 69 mm, Mounted	114602603
YR469	4 mm × 69 mm, TEM ₀₀	114, 602, 603
YRA1144	4 mm × 69 mm, Mounted	114, 602, 603
YR512	4 mm × 79 mm, TEM ₀₀	116, 604
YRA1164	4 mm × 79 mm, Mounted	116, 604
YR258CC	3 mm × 79 mm, TEM ₀₀ , -1m/-1m CC	116, 604
YR1163	3 mm × 79 mm, Mounted	116, 604
YR416	4 mm × 79 mm, Wedge, TEM ₀₀	116, 416
YRA416	4 mm × 79 mm, Mounted	116, 416
YR1173A	3 mm × 108 mm, TEM ₀₀	117, 117E
YRA1173ENHA	3 mm × 108 mm, Mounted	117, 117E
YR530	6.35 mm × 105 mm, Multimode	117, 150W
YRA1176	6.35 mm × 105 mm, Mounted	117, 150W
YR118	7 mm × 145 mm, Multimode	118, 250W
YRA118	7 mm × 145 mm, Mounted	118, 250W
YR385CC	3 mm × 85 mm, TEM ₀₀ , -1M/-1MCC	116 (New Enhanced Model)
YRA3116	3 mm × 85 mm, Mounted	116 (New Enhanced Model)
YR485	4 mm × 85 mm, TEM ₀₀	116 (New Enhanced Model)
YRA4116	4 mm × 85 mm, Mounted	116 (New Enhanced Model)

Item Part Number	Description	Laser Rail
YR715	4 mm × 108 mm, Multimode	Q-Mark
YRAQMARK	4 mm × 108 mm, Mounted	Q-Mark
YR718	4 mm × 108 mm, TEM ₀₀	Q-Mark
YRAQMARKTEM	4 mm × 108 mm, Mounted	Q-Mark
YLF116	4 mm × 79 mm, YLF	116, 4116, YLF
YLFA116	4 mm × 79 mm, Mounted, YLF	116, 4116, YLF
YLF117	4 mm × 104 mm, YLF	117, 4217, YLF
YLFA117	4 mm × 104 mm, Mounted, YLF	117, 4217, YLF
YLF485	4 mm × 85 mm, YLF	116, YLF (New Enhanced Model), Please Enquire
YLFA4116	4 mm × 85 mm, Mounted, YLF	116, YLF (New Enhanced Model), Please Enquire
YLF4108	4 mm × 108 mm, YLF	117, YLF (New Enhanced Model), Please Enquire
YLFA4117	4 mm × 108 mm, Mounted, YLF	117, YLF (New Enhanced Model), Please Enquire

RAYTHEON

YR3889	6.35 mm × 3.5" (89 mm)	SS380
YR552	5 mm × 52 mm	SS-116, SSO117
YR8155	8 mm × 155 mm	SS500, SS525, SS531, SS550
YRA500	8 mm × 155 mm, Mounted	SS500, SS525, SS531, SS550
YR500	8 mm × 155 mm	RS P500Y, RAYPD460
YR2594	6.35 mm × 94 mm	SS347

ROFIN SINAR

YR485	4 mm × 85 mm	Evermark 8070, 815, 860
YRA767	4 mm dia, Mounted	Evermark 8070, 815, 860
YR4140	4 mm × 140 mm	Tornado, RSY90, RSY120
YRA4140	4 mm × 140 mm, Mounted	Tornado, RSY90, RSY120, L4081590
YR5135	5 mm × 135 mm	Rofin P/N 4081420
YR7180	7 mm × 180 mm	RS300
YR9525155	9.525 mm × 155 mm	RS500
YR370PB	3 mm × 70 mm	RS Diode Marker 100D
YRAR5100D	3 mm × 70 mm	RS Diode Marker 100D

S.E.I.

YR715	4 mm × 108 mm, Multimode	SEI 80W
YRA715	4 mm × 108 mm, Mounted	SEI 80W
YR5108	5 mm × 108 mm, Multimode	SEI 120W
YRA955	5 mm × 108 mm, Mounted	SEI 120W

SIEMENS

YR479	4 mm × 79 mm	Silimatic
YRA479	4 mm × 79 mm, Mounted	Silimatic

LASER S.O.S. GROUP

TECHNOLOGY AND MARKET DRIVEN COMPANY!

LASER CRYSTALS

Nd:YAG, Nd:YLF,
ALEXANDRITE & RUBY

For All Solid State Laser Systems

Intelligent Solutions, Manufacturing & Development

Item Part Number	Description	Laser Rail
SIRO LASER		
YR254	6.35 mm × 105 mm Pulsed	Siro ALS35, ALS35S, SL75
YRA254	6.35 mm × 105 mm Mounted	Siro ALS35, ALS35S, SL75
SPECTRA PHYSICS		
YR512	4 mm × 79 mm, TEM ₀₀	3000
YRA708	4 mm × 79 mm, Mounted	3000 (Lee Laser 708)
YRA573	4 mm × 79 mm, Mounted	3000 (ESI 3573)
YR95264	9.52 mm × 64 mm	Quanto Ray GCR
YLF4115	4 mm × 115 mm, YLF	Merlin
YLFA4115	4 mm × 115 mm, Mounted, YLF	Merlin
SPECTRON		
YR479	4 mm × 79 mm	SL500W, SL501, SL501Q, SL50Q, SL501T
YR270	4 mm × 105 mm	SL502, SL502Q, SL902, SL902Q, SL903, SL903Q
YR8103	8 mm × 103 mm	SL406G, Ground Barrel
YR8130	8 mm × 103 mm, Grooved	SL406G, Grooved Barrel
YR4181	4 mm × 181 mm	SL1302, SL1308Q
YR402	6.35 mm × 80.25 mm	SL402
YR862	8 mm × 62 mm	SL400 Series
SURGICAL LASER TECHNOLOGY		
YR479	4 mm × 79 mm	CL-60
YRA434	4 mm × 79 mm, Mounted	CL-60
SYLVANIA		
YR254	6.35 mm × 105 mm	1610
YR575	5 mm × 75 mm	CL-60
TERADYNE / TSLI / GENERAL SCANNING L.S.D.		
YR510	4 mm × 54 mm, TEM ₀₀	311, H-507
YRA510	4 mm × 54 mm, Mounted	311, H-507, Control 510
YR512	4 mm × 79 mm, TEM ₀₀	411, H-514, WD411, W614, W670, W724
YRA512	4 mm × 79 mm, Mounted	411, WD411, Control 512

Item Part Number	Description	Laser Rail
YRA708	4 mm × 79 mm, Mounted	W614, W670, Lee Laser 708
YR369CC	3 mm × 69 mm, TEM ₀₀ , -1m CC	M118
YRA1143	3 mm × 69 mm, Mounted	M118, Quantronix 114
YR258CC	3 mm × 79 mm, TEM ₀₀ , -1m CC	M118
YRA1163	3 mm × 79 mm, Mounted	M118, Quantronix 116
YRA808	4 mm × 79 mm, Mounted	W670, W724, Lee Laser 808

T.L.T.

YR512	4 mm × 79 mm, TEM ₀₀	800, 1200, 1400
YRA9560	4 mm × 79 mm, Mounted	800
YRA512	4 mm × 79 mm, Mounted	1200.14
YRI173B	3 mm × 108 mm, TEM ₀₀	2400
YRA1173	3 mm × 108 mm, Mounted	2400, Quantronix 117

TOSHIBA

YR7152	7 mm × 152 mm	S-T700T
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TRUMPF

YR257	6.35 mm × 178 mm	HL353D, HL506D, HL703D, HL1033D, HL1504D, HL2006D, HL3006D, HL4006D
YRA257	6.35 mm × 178 mm, Mounted	HL353D, HL506D, HL703D, HL1033D, HL1504D, HL2006D, HL3006D, HL4006D
NDGLASSLAG15	6 mm × 185 mm	LAG15

UNIVERSAL LASER SYSTEMS

YR512	4 mm × 79 mm, TEM ₀₀	50 Watt
YRA808	4 mm × 79 mm, Mounted	50 Watt, Lee Laser 808

WAVELENGTH

ALEX5111	5 mm × 111 mm, Alexandrite	Epi Xan BLM 100 AX
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ZANABONI

YR479	4 mm × 79 mm, Multimode	60 Watt
YRA6479	4 mm × 79 mm, Mounted	60 Watt

Laser SOS provides a comprehensive range of laser rods both un-mounted and mounted. If your rod is not listed please provide us with the diameter, length and laser model.

LASER CRYSTALS

LASER ROD REFURBISHING

For All Solid State Laser Systems



Laser SOS provides a comprehensive range of laser rod refurbishing service. Both un-mounted and mounted laser rod assemblies can be refurbished subject to the serviceability of the original assembly or the availability of suitable hardware.

The following Laser rod materials can be re-polished and AR coated on request.

Face configuration: Flat, Wedge, Radius, Brewster

Standard Refurbishing Specifications

Material	Parallelism	Perpendicularity	Surface Quality	Surface Flatness	AR Coating
ND:YAG	< 10 arc secs	< 5 arc mins	10/5	$\lambda/10$	< 0.25% @ 1064nm
ND:YLF	< 10 arc secs	< 5 arc mins	10/5	$\lambda/10$	< 0.25% @ 1047nm or 1053nm
	< 10 arc secs	< 5 arc mins	10/5	$\lambda/10$	< 0.25% @ 755nm
RUBY	< 10 arc secs	< 5 arc mins	10/5	$\lambda/10$	< 0.25% @ 694nm

It is required that laser rods or rod assemblies can only be shipped to Laser SOS with an 'RMA' number. All returns must be pre-paid door to door. Any additional incurred costs will be added to customer final invoice. Laser SOS assumes no liability expressed or implied regarding the structural integrity of laser rods sent to us for refurbishing.

Part Number	Description
MATERIAL: Nd:YAG	
YR001	2.0–6.35 mm dia, Ends F/P, AR/AR @ 1064 nm, <0.15 %R
YR001B	2.0–6.35 mm dia, Brewster, AR/AR @ 1064 nm, <0.15 %R
YR001R	2.0–6.35 mm dia, Radius, AR/AR @ 1064 nm, <0.15 %R
YR001W	2.0–6.35 mm dia, Wedge, AR/AR @ 1064 nm, <0.15 %R
YR002	7.0–8.5 mm dia, Ends F/P, AR/AR @ 1064 nm, <0.15 %R
YR002B	7.0–8.5 mm dia, Brewster, AR/AR @ 1064 nm, <0.15 %R
YR002R	7.0–8.5 mm dia, Radius, AR/AR @ 1064 nm, <0.15 %R
YR002W	7.0–8.5 mm dia, Wedge, AR/AR @ 1064 nm, <0.15 %R
YR003	9.0–9.525 mm dia, Ends F/P, AR/AR @ 1064 nm, <0.15 %R
YR003B	9.0–9.525 mm dia, Brewster, AR/AR @ 1064 nm, <0.15 %R
YR003R	9.0–9.525 mm dia, Radius, AR/AR @ 1064 nm, <0.15 %R
YR003W	9.0–9.525 mm dia, Wedge, AR/AR @ 1064 nm, <0.15 %R
YR004	10.0–12.5 mm dia, Ends F/P, AR/AR @ 1064 nm, <0.15 %R
YR004B	10.0–12.5 mm dia, Brewster, AR/AR @ 1064 nm, <0.15 %R
YR004R	10.0–12.5 mm dia, Radius, AR/AR @ 1064 nm, <0.15 %R
YR004W	10.0–12.5 mm dia, Wedge, AR/AR @ 1064 nm, <0.15 %R

MATERIAL: Nd:YLF	
YLF001	2.0–6.35 mm dia, Ends F/P, AR/AR @ 1047 nm, <0.15 %R
YLF001B	2.0–6.35 mm dia, Brewster, AR/AR @ 1047 nm, <0.15 %R
YLF001R	2.0–6.35 mm dia, Radius, AR/AR @ 1047 nm, <0.15 %R
YLF001W	2.0–6.35 mm dia, Wedge, AR/AR @ 1047 nm, <0.15 %R
YLF002	7.0–8.5 mm dia, Ends F/P, AR/AR @ 1064 nm, <0.15 %R
YLF002B	7.0–8.5 mm dia, Brewster, AR/AR @ 1064 nm, <0.15 %R
YLF002R	7.0–8.5 mm dia, Radius, AR/AR @ 1064 nm, <0.15 %R
YLF002W	7.0–8.5 mm dia, Wedge, AR/AR @ 1064 nm, <0.15 %R
YLF003	9.0–9.525 mm dia, Ends F/P, AR/AR @ 1064 nm, <0.15 %R
YLF003B	9.0–9.525 mm dia, Brewster, AR/AR @ 1064 nm, <0.15 %R
YLF003R	9.0–9.525 mm dia, Radius, AR/AR @ 1064 nm, <0.15 %R
YLF003W	9.0–9.525 mm dia, Wedge, AR/AR @ 1064 nm, <0.15 %R
YLF004	10.0–12.5 mm dia, Ends F/P, AR/AR @ 1064 nm, <0.15 %R
YLF004B	10.0–12.5 mm dia, Brewster, AR/AR @ 1064 nm, <0.15 %R
YLF004R	10.0–12.5 mm dia, Radius, AR/AR @ 1064 nm, <0.15 %R
YLF004W	10.0–12.5 mm dia, Wedge, AR/AR @ 1064 nm, <0.15 %R

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Part Number	Description
MATERIAL: Alexandrite	
ALEX001	2.0–6.35 mm dia, Ends F/P, AR/AR @ 1053 nm, <0.25 %R
ALEX001R	2.0–6.35 mm dia, Radius, AR/AR @ 1053 nm, <0.25 %R
ALEX001W	2.0–6.35 mm dia, Wedge, AR/AR @ 1053 nm, <0.25 %R
ALEX002	7.0–8.5 mm dia, Ends F/P, AR/AR @ 1053 nm, <0.25 %R
ALEX002R	7.0–8.5 mm dia, Radius, AR/AR @ 1053 nm, <0.25 %R
ALEX002W	7.0–8.5 mm dia, Wedge, AR/AR @ 1053 nm, <0.25 %R
ALEX003	9.0–9.525 mm dia, Ends F/P, AR/AR @ 1053 nm, <0.25 %R
ALEX003R	9.0–9.525 mm dia, Radius, AR/AR @ 1053 nm, <0.25 %R
ALEX003W	9.0–9.525 mm dia, Wedge, AR/AR @ 1053 nm, <0.25 %R
ALEX004	10.0–12.5 mm dia, Ends F/P, AR/AR @ 1053 nm, <0.25 %R
ALEX004R	10.0–12.5 mm dia, Radius, AR/AR @ 1053 nm, <0.25 %R
ALEX004W	10.0–12.5 mm dia, Wedge, AR/AR @ 1053 nm, <0.25 %R
MATERIAL: Ruby	
R001	2.0–6.35 mm dia, Ends F/P, AR/AR @ 694 nm, <0.25 %R
R001B	2.0–6.35 mm dia, Brewster, AR/AR @ 694 nm, <0.25 %R
R001W	2.0–6.35 mm dia, Wedge, AR/AR @ 694 nm, <0.25 %R
R002	7.0–8.5 mm dia, Ends F/P, AR/AR @ 694 nm, <0.25 %R
R002B	7.0–8.5 mm dia, Brewster, AR/AR @ 694 nm, <0.25 %R
R002W	7.0–8.5 mm dia, Wedge, AR/AR @ 694 nm, <0.25 %R
R003	9.0–9.525 mm dia, Ends F/P, AR/AR @ 694 nm, <0.25 %R
R003B	9.0–9.525 mm dia, Brewster, AR/AR @ 694 nm, <0.25 %R
R003W	9.0–9.525 mm dia, Wedge, AR/AR @ 694 nm, <0.25 %R
R004	10.0–12.5 mm dia, Ends F/P, AR/AR @ 694 nm, <0.25 %R
R004B	10.0–12.5 mm dia, Brewster, AR/AR @ 694 nm, <0.25 %R
R004W	10.0–12.5 mm dia, Wedge, AR/AR @ 694 nm, <0.25 %R

Please add the 'A' prefix to the Laser rod part number to clearly indicate that the Laser rod is an assembly.

Laser SOS assumes no liability expressed or implied regarding the structural integrity or laser rods sent to us for refurbishing.

It is required that laser rods or rod assemblies can only be shipped back to Laser SOS with an 'RMA' number. All returns must be pre-paid door to door. Any additional cost, charges and taxes etc. will be re-invoiced to customers account.



LASER S.O.S. USA

TECHNOLOGY AND MARKET **DRIVEN COMPANY!**

55 Sterling Street
Clinton, MA 01510 USA

Tel.: (978) 368 6126
Fax:(978) 368 6127

E-mail: sales@lasersos-usa.com
www.lasersos-usa.com