



**LASER S.O.S. GROUP**

TECHNOLOGY AND MARKET DRIVEN COMPANY!

# LASER CRYSTALS

Nd:YAG, Nd:YLF, Er:YAG  
ALEXANDRITE & RUBY

Issue 3.



Intelligent Solutions, Manufacturing & Development



# CONTENTS

## LASER S.O.S. GROUP

TECHNOLOGY AND MARKET DRIVEN COMPANY!

RoHS and WEE conformity statements.....	4
LASER CRYSTALS .....	5
AB LASER INC. ....	6
ADRON .....	6
ADVANCED LASER .....	6
ALLIED/APOLLO .....	6
ALPHA LASER .....	6
APOLLO .....	7
AUREL .....	7
BAASEL LASERTECHNIK .....	7
BAUBLYS CONTROL LASER .....	7
BIOS .....	7
B.M.I. ....	7
B.O.C. ....	8
CHICAGO LASER .....	8
CHROMATRON .....	8
CLEAN LASER .....	8
CONTINUUM .....	8
COHERENT .....	8
CONTROL LASER .....	8
CRAFFORD PRECISION PRODUCTS .....	9
CYNOSURE .....	9
C.VI. LASER .....	9
DEK LASER .....	9
EKSMA/EKSPLA .....	9
ELECTROX .....	9
E.S.I. ....	9
EXCALIBUR .....	10
FOBA .....	10
FOTONA .....	10
FLOROD .....	10
FOX LABS .....	10
GENERAL SCANNING / G.S.I. ....	10
GRETAG .....	10
GSI LUMONICS .....	10
G.T.E. ....	11
HAHN & KOLB .....	11
HK TECHNOLOGIES .....	11
HAAS LASER .....	11
HOLOBEAM .....	11
HYSOL/PARTRIDGE LASERS .....	12
I.L.M. ....	12
IMPAQ .....	12
INNOLAS .....	12
JEC LASER .....	12
JK LASER .....	12
KORAD LASERS .....	12

LASAG .....	13
LASER APPLICATIONS / LASERMETRICS .....	13
LASER IDENTIFICATION SYSTEM .....	13
LASER OPTRONICS .....	13
LASER SOS .....	13
LASERVALL .....	13
LASIT .....	14
LASITRON .....	14
L.B.T. ....	14
LEE LASER .....	14
L.PK.F. ....	14
LS LASER SYSTEMS .....	15
LUMENIS .....	15
LUTRONIC .....	15
MIYACHI .....	15
MLS .....	15
N.E.C. ....	15
N.W.L. ....	15
OR LASER .....	15
ORZIV .....	16
PHOTON ENERGY .....	16
PM INDUSTRIES .....	16
POSITIVE LIGHT .....	16
QUANTEL .....	16
QUANTRAD .....	16
QUANTRONIX / EXCEL .....	16
RAYTHEON .....	17
ROFIN SINAR .....	17
S.E.I. ....	18
SIEMENS .....	18
SIRO LASER .....	18
SPECTRA PHYSICS .....	18
SPECTRON .....	18
SURGICAL LASER TECHNOLOGY .....	19
SYLVANIA .....	19
TERADYNE / TLSI / GENERAL SCANNING L.S.D. ....	19
T.L.T. ....	19
TOSHIBA .....	19
TRUMPF .....	19
UNIVERSAL LASER SYSTEMS .....	20
WAVELIGHT .....	20
ZANABONI .....	20
LASER CRYSTALS – Laser Rod Refurbishing .....	21
MATERIAL: Nd:YAG .....	22
MATERIAL: Nd:YLF .....	22
MATERIAL: Alexandrite .....	23
MATERIAL: Ruby .....	23
MATERIAL: Er:YAG .....	23

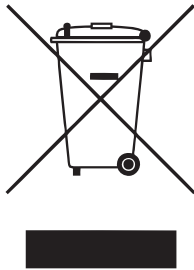
## RoHS and WEEE conformity statements

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 whee bin” WEEE symbol shown on the left in accordance with European Standard EN 50419. Our WEEE Producer registration number is WEE/EF0248QZ.

# LASER CRYSTALS

Nd:YAG, Nd:YLF, Er:YAG,  
ALEXANDRITE & RUBY  
For All Solid State Laser Systems



Neodymium doped Yttrium Aluminium Garnet (Nd:YAG) is the most commonly used solid-state lasing medium in CW/QS lamp and diode pumped laser system. Nd:YAG has relatively good optical absorption and conversion efficiency with good thermal dissipation, low lasing and high optical damage thresholds. This makes it optimal for use in high power lasers.

To optimize the beam quality and maximize the output power, it is necessary to select the correct Nd dopant levels. A low level of dopant will yield low multimode output power but provides a superior fundamental mode (TEM<sub>00</sub>) quality. A medium level of dopant will yield higher multimode output power with a good quality beam (TEM<sub>01</sub>) mode. A higher level of dopant will provide maximum multimode power but beam quality will suffer. YAG rods with 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 fibre optic delivery systems.

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Item Part Number	Description	Laser Rail
<b>AB LASER INC.</b>		
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 <sub>00</sub>	600, 2000, 6000 Series, Star Mark SM65, SM90
YRA6512	4 mm × 79 mm, Mounted, TEM <sub>00</sub>	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, LPKF720
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 <sub>00</sub>	StarMark 150 W
YRASTAR4125	4 mm × 125 mm, Mounted	StarMark 150 W
YR5125	5 mm × 125 mm, Multimode	StarMark 150 W
YRASTAR150	5 mm × 125 mm, Mounted	StarMark 150 W
YRASC18	6.35 mm × 105 mm, Mounted	Baasel SC18, PKF720, 102100879
ALEX5111	5 mm × 111 mm, Alexandrite	Alexandrite EpiXan BLM1000AX
YR256	6.35 mm × 153 mm	Baasel LSW730, SW250
ALEXA1000AX	5 mm × 111 mm, Mounted	Baasel Alexandrite EpiXan BLM1000AX
<b>ADRON</b>		
YR38150	9.525 mm × 150 mm	High Power Pulsed Laser
<b>ADVANCED LASER</b>		
YR479	4 mm × 79 mm, Multimode	Lee Laser 712
YRA712	4 mm × 79 mm, Mounted	Lee Laser 712
<b>ALLIED/APOLLO</b>		
YR6354	6.35 mm × 4" (102 mm)	High Power Pulsed Laser
YR14614	6.35 mm × 6.25" (159 mm)	High Power Pulsed Laser
<b>ALPHA LASER</b>		
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
<b>APOLLO</b>		
RUBY343	¾" × 76 mm	Apollo Ruby Laser
RUBY18	1" × 203 mm	Apollo Ruby Laser
RUBY1344	1¾" × 102 mm	Apollo Ruby Laser
<b>AUREL</b>		
YR512	4 mm × 79 mm	NAVS2
<b>BAASEL LASERTECHNIK</b>		
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, TEMoo	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, TEMoo	StarMark 150 W
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 150 W
YR5125	5 mm × 125 mm, Multimode	StarMark 150 W
YRastar150	5 mm × 125 mm, Mounted	StarMark 150 W
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, LPKF720
YR254CVX	6.35 mm × 105 mm, Flat/CC	StarWeld, P/N 101101767
YRASCI8	6.35 mm × 105 mm, Mounted	Baasel SC18, LPKF720, 102100879
YRA7000	6.35 mm × 105 mm, Mounted	StarWeld 4001, 4002, 5001, 6001
ALEX5111	5 mm × 111 mm, Alexandrite	Alexandrite EpiXan BLM 1000AX
YR256	6.35 mm × 153 mm	Baasel LSW730, SW250
ALEXA1000AX	5 mm × 111 mm, Mounted	Baasel Alexandrite EpiXan BLM1000AX
<b>BAUBLYS CONTROL LASER</b>		
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>BIOS</b>		
ERYAG4115	4 mm × 115 mm	Bios Er:YAG Laser
<b>B.M.I.</b>		
YR37545	9.525 mm × 4.5" (114 mm)	High Power Pulsed Laser

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For All Solid State Laser Systems

Intelligent Solutions, Manufacturing & Development

Item Part Number	Description	Laser Rail
<b>B.O.C.</b>		
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
<b>CHICAGO LASER</b>		
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
<b>CHROMATRON</b>		
YRA811	4 mm × 105 mm, Mounted	Induwrite 100 Watt
<b>CLEAN LASER</b>		
YR479	4 mm × 79 mm	CWQ2025
YR9555	5 mm × 79 mm	CWQ2040
YR715	4 mm × 108 mm	CWQ2045
<b>CONTINUUM</b>		
YR6115	6 mm × 115 mm	SureLite
YR60115	6 mm × 115 mm	Powerlite 8000
YR952115	9.52 mm × 115 mm	Powerlite 8000
<b>COHERENT</b>		
YLF4115	4 mm × 114 mm	Merlin
YLFA4115	4 mm × 114 mm, Mounted	Merlin
YRI01524	10 mm × 152.4 mm	M34
<b>CONTROL LASER</b>		
YR510	4 mm × 54 mm	510, 511, H-507
YRA510	4 mm × 54 mm Mounted	510, 511, H-507



Item Part Number	Description	Laser Rail
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, TEMoo	512, 513, H-S 14, 612
YRA512	4 mm × 79 mm, Mounted	512, 513, H-S 14, 612
YRA514	4 mm × 79 mm, Mounted	514
YRA520	4 mm × 79 mm, Mounted	520
YR258	3 mm × 79 mm, TEMoo	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 Tri mmer, Spectron SL501Q, SL501TQ
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### EKSMA/EKSPLA

YR2785W3W3	6.35 mm × 85 mm	PL2143A, PL2143B
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### ELECTROX

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

### 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

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Item Part Number	Description	Laser Rail
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

## EXCALIBUR

YRI173B	3 mm × 108 mm, TEM <sub>00</sub>	XLS572
YRA1173	3 mm × 108 mm, Mounted	XLS572

## FOBA

YR4117	4 mm × 117 mm	Fobalas 90MK DT, 945, 845
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## FOTONA

YR270	4 mm × 105 mm	YAG22
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## 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 / G.S.I.

YR718	4 mm × 108 mm	Hi-Mark 400, 800, 6000
YRA718	4 mm × 108 mm, Mounted	Hi-Mark 400
YRA815	4 mm × 108 mm, Mounted, M/Mode	Hi-Mark 400, 800, 6000, 1500SM, 1900SM
YRA818	4 mm × 108 mm, Mounted, TEM <sub>00</sub>	Hi-Mark 400, 800, 6000

## GRETAG

YR270	4 mm × 105 mm	6210, 6211, Spectron SL902, SL902Q, SL903, SL903Q
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## GSI LUMONICS

YR38614	9.525 mm × 6.25", Unmounted	GSI Lumonics MS330, MS830, JK701, JK704, 12250220A
YRA5000	9.525 mm × 6.25", Mounted	GSI Lumonics MS330, MS830, JK701, JK704
YR512A	4 mm × 79 mm, TEM <sub>00</sub>	WaferMark 345, II, Softmark, Lightwriter
YRA1164	4 mm × 79 mm, Mounted	WaferMark 345, II, Softmark, Lightwriter

Item Part Number	Description	Laser Rail
YR8193	8 mm × 193 mm, Unmounted	GSI Lumonics Multiwave 1225110YA
YR14614	6.35 mm × 158.75 mm, Unmounted	GSI Lumonics JK702, JK703, 12250430A
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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### HAAS LASER

YR257	6.35 mm dia, Premium Grade Rod	HL353D, HL506D, HL703D, HL1033D, HL1504D, HL2006D, HL3006D, HL4006D
yr2570	6.35 mm dia, Standard Grade Rod	HL353D-HL4006D
YRA257	6.35 mm dia, Mounted, Premium Grade Rod	HL353D, HL506D, HL703D, HL1033D, HL1504D, HL2006D, HL3006D, HL4006D
yrA2570	6.35 mm dia, Mounted, Standard Grade Rod	HL353D-HL4006D
YR270	4 mm × 105 mm	VectorMark
YR5179	5 mm dia, Premium Grade Rod	HL803D
YR51790	5 mm dia, Standard Grade Rod	HL803D
YRA5179	5 mm dia, Mounted, Premium Grade Rod	HL803D
YRA51790	5 mm dia, Mounted, Standard Grade Rod	HL803D
NDGLASSLAG15	6 mm × 185 mm	LAG15

### HOLOBEAM

YR510	4 mm × 54 mm, TEM <sub>00</sub>	255.256
YRA510	4 mm × 54 mm, Mounted	255.256
YR258	3 mm × 79 mm, TEM <sub>00</sub>	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

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Item Part Number	Description	Laser Rail
<b>HYSOL/PARTRIDGE LASERS</b>		
YR479	4 mm × 79 mm	HM60
YR270	4 mm × 105 mm	HM100
<b>I.L.M.</b>		
YR400	9.525 mm × 4.5" (114 mm)	High Power Pulsed Laser
YR14614	6.35 mm × 6.25" (159 mm)	High Power Pulsed Laser
YR14412	6.35 mm × 4.5" (114 mm)	CW
YR38614	9.525 mm × 6.25" (159 mm)	High Power Pulsed Laser
<b>IMPAQ</b>		
YR479	4 mm × 79 mm	80 Watt, CWQ2025
YR9555	5 mm × 79 mm	100 Watt, CWQ2040
YR715	4 mm × 108 mm	120 Watt, CWQ2045
<b>INNOLAS</b>		
YR270	4 mm × 105 mm	1000, 2000, Enigma
<b>JEC LASER</b>		
YR510	4 mm × 54 mm	1020.103
YR479	4 mm × 79 mm	1024
YR484	4 mm × 84 mm	3500
<b>JK LASER</b>		
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, PA032760X
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
<b>KORAD LASERS</b>		
YRKY5	5 mm × 3.25" (83 mm)	KY5
YR3840	9.525 mm × 4.0" (102 mm)	High Power Pulsed Laser

Item Part Number	Description	Laser Rail
<b>LASAG</b>		
YR201	6.35 mmx 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
YR4768	4 mm × 76.8 mm	KLS246
YRA342	4 mm × 76.8 mm, Mounted	KLS246
<b>LASER APPLICATIONS / LASERMETRICS</b>		
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 <sub>00</sub>	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
<b>LASER IDENTIFICATION SYSTEM</b>		
YR512A	4 mm × 79 mm, TEM <sub>00</sub>	WaferMark 345, II, Softmark, Lightwriter
YRA1164	4 mm × 79 mm, Mounted	WaferMark 345, II, Softmark, Lightwriter
<b>LASER OPTRONICS</b>		
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
<b>LASER SOS</b>		
YR7453	7 mm × 115 mm	MWL–50, MWL–80
<b>LASERVALL</b>		
YR625105	6.25 mm × 105 mm	PL50
YRAPL50	6.25 mm × 105 mm, Mounted	PL50
YR7115	7 mm × 115 mm	Compac

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Item Part Number	Description	Laser Rail
YR582	5 mm × 82 mm	JL15
YRAJL15	5 mm × 82 mm, Mounted	JL15

## LASIT

YR4108	4 mm × 108 mm	EasyMark, FlexMark 80 W
YRA4105	4 mm × 108 mm, Mounted	EasyMark, FlexMark 80 W
YR5108	5 mm × 108 mm	EasyMark, FlexMark 120 W
YRA955	5 mm × 108 mm, Mounted	EasyMark, FlexMark 120 W

## 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 <sub>00</sub>	712
YR479	4 mm × 79 mm	812, 850
YR482	4 mm × 82 mm	650M, 650/CD
YRA650	4 mm × 82 mm, Mounted	650M, 650/CD
YR512	4 mm × 79 mm, TEM <sub>00</sub>	708, 808, 812
YRA708	4 mm × 79 mm, Mounted	708
YR718	4 mm × 108 mm, TEM <sub>00</sub>	718, 815, 818
YRA718	4 mm × 108 mm, Mounted	718
YRA712	3 mm × 79 mm, Mounted	712
YR715	4 mm × 108 mm, CW	715
YRA715	4 mm × 108 mm, Mounted	715
YRA808	4 mm × 79 mm, Mounted	808
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, LPKF720
YRASC18	6.35 mm × 105 mm, Mounted	Baasel SC18, LPKF, I02100879

Item Part Number	Description	Laser Rail
<b>LS LASER SYSTEMS</b>		
YR485	4 mm × 85 mm	MLS035, LS8000, MLS7032
<b>LUMENIS</b>		
ALEX6112	6 mm × 112 mm	Epi-touch 5100, Alexandrite
<b>LUTRONIC</b>		
YR8100	8 mm × 100 mm	Yag tattoo & pigment removal
<b>MIYACHI</b>		
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
<b>MLS</b>		
YR485	4 mm × 85 mm	MLS035, LS8000, MLS7032
<b>N.E.C.</b>		
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
YRSL402	6.35 mm × 80 mm	SL402
<b>N.W.L.</b>		
YR270	4 mm × 105 mm	N.W.L. Dali, Maestro, Minstral
<b>OR LASER</b>		
YR254	6.35 mm × 105 mm	OR Laser LSP
YRA9654	6.35 mm × 105 mm, Mounted	OR Laser LSP

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ALEXANDRITE & RUBY

For All Solid State Laser Systems

Intelligent Solutions, Manufacturing & Development

Item Part Number	Description	Laser Rail
<b>ORZIV</b>		
YR1173A	3 mm × 108 mm, TEM <sub>00</sub>	Orziv 200I
YRA1173	3 mm × 108 mm, Mounted	Orziv 200I
YR270	4 mm × 105 mm	Orziv Express
<b>PHOTON ENERGY</b>		
YR479	4 mm × 79 mm	Photon Energy Draco 80W
YR270	4 mm × 105 mm	Photon Energy Draco 100W
<b>PM INDUSTRIES</b>		
YR510	4 mm × 54 mm	45200300
<b>POSITIVE LIGHT</b>		
YLF4115	4 mm × 115 mm	Merlin, YLF
YLFA4115	4 mm × 115 mm, Mounted	Merlin, YLF
<b>QUANTEL</b>		
YR9160	9 mm × 160 mm	High Power Pulsed Laser
<b>QUANTRAD</b>		
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
<b>QUANTRONIX / EXCEL</b>		
YR369CC	3 mm × 69 mm, TEM <sub>00</sub> , -1M/-1MCC	114602603
YRA1143	3 mm × 69 mm, Mounted	114602603
YR469	4 mm × 69 mm, TEM <sub>00</sub>	114, 602, 603
YRA1144	4 mm × 69 mm, Mounted	114, 602, 603
YR512A	4 mm × 79 mm, TEM <sub>00</sub>	116, 604
YRA1164	4 mm × 79 mm, Mounted	116, 604
YR258CC	3 mm × 79 mm, TEM <sub>00</sub> , -1M/-1MCC	116, 604
YR1163	3 mm × 79 mm, Mounted	116, 604
YR416	4 mm × 79 mm, Wedge, TEM <sub>00</sub>	116, 416



Item Part Number	Description	Laser Rail
YRA416	4 mm × 79 mm, Mounted	I16, 416
YR1173A	3 mm × 108 mm, TEMoo	I17, I17E
YRA1173ENHA	3 mm × 108 mm, Mounted	I17, I17E
YR530	6.35 mm × 105 mm, Multimode	I17, I50W
YRA1176	6.35 mm × 105 mm, Mounted	I17, I50W
YR118	7 mm × 145 mm, Multimode	I18, 250W
YRA118	7 mm × 145 mm, Mounted	I18, 250W
YR385CC	3 mm × 85 mm, TEMoo, -1M/-1MCC	I16 (New Enhanced Model)
YRA3116	3 mm × 85 mm, Mounted	I16 (New Enhanced Model)
YR485	4 mm × 85 mm, TEMoo	I16 (New Enhanced Model)
YRA4116	4 mm × 85 mm, Mounted	I16 (New Enhanced Model)
YR715	4 mm × 108 mm, Multimode	Q-Mark
YRAQMARK	4 mm × 108 mm, Mounted	Q-Mark
YR718	4 mm × 108 mm, TEMoo	Q-Mark
YRAQMARKTEM	4 mm × 108 mm, Mounted	Q-Mark
YLF116	4 mm × 79 mm, YLF	I16, 4116, YLF
YLFA116	4 mm × 79 mm, Mounted, YLF	I16, 4116, YLF
YLF117	4 mm × 104 mm, YLF	I17, 4217, YLF
YLFA117	4 mm × 104 mm, Mounted, YLF	I17, 4217, YLF
YLF485	4 mm × 85 mm, YLF	I16, YLF (New Enhanced Model), Please Enquire
YLFA4116	4 mm × 85 mm, Mounted, YLF	I16, YLF (New Enhanced Model), Please Enquire
YLF4108	4 mm × 108 mm, YLF	I17, YLF (New Enhanced Model), Please Enquire
YLFA4117	4 mm × 108 mm, Mounted, YLF	I17, YLF (New Enhanced Model), Please Enquire
YR425	4 mm × 108 mm, TEMoo	I17, Q-Mark
YRA4117	4 mm × 108 mm, Mounted	I17, Q-Mark
YRA1164LN	4 mm × 79 mm, Mounted	I16 Low Noise Assembly

### RAYTHEON

YR3889	6.35 mm × 3.5" (89 mm)	SS380
YR552	5 mm × 52 mm	SS-I16, 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, Multimode
YR4141	4 mm × 140 mm	Tornado, RSY90, RSY120, 4081080
YRA4140	4 mm × 140 mm, Mounted	Tornado, RSY90, RSY120, L4081590, Multimode
YRA4141	4 mm × 140 mm, Mounted	Tornado, RSY90, RSY120, TEMoo
YR5135	5 mm × 135 mm	Rofin 4081420, 101103970
YR7180	7 mm × 180 mm	RS300
YR9525155	9.525 mm × 155 mm	RS500
YR370PB	3 mm × 70 mm	RS Diode Marker 100D

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Item Part Number	Description	Laser Rail
YRARS100D	3 mm × 70 mm, Mounted	RS Diode Marker 100D
YR8155	8 mm × 155 mm	RS 1000P, 905552
YR8175	8 mm × 175 mm	RSCW020, 2KWCW Laser

## 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

## 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 <sub>00</sub>	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	Quanta Ray GCR
YLF4115	4 mm × 115 mm, YLF	Merlin
YLFA4115	4 mm × 115 mm, Mounted, YLF	Merlin
YRDCR3	8.50 mm × 64 mm	Quanta Ray DCR-3
YR564	5 mm × 64 mm	Quanta Ray DCR

## 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

Item Part Number	Description	Laser Rail
<b>SURGICAL LASER TECHNOLOGY</b>		
YR479	4 mm × 79 mm	CL-60
YRA434	4 mm × 79 mm, Mounted	CL-60
<b>SYLVANIA</b>		
YR254	6.35 mm × 105 mm	1610
YR575	5 mm × 75 mm	CL-60
<b>TERADYNE / TLSI / GENERAL SCANNING L.S.D.</b>		
YR510	4 mm × 54 mm, TEM <sub>00</sub>	311, H-507
YRA510	4 mm × 54 mm, Mounted	311, H-507, Control 510
YR512	4 mm × 79 mm, TEM <sub>00</sub>	411, H-514, WD411, W614, W670, W724
YRA512	4 mm × 79 mm, Mounted	411, WD411, Control 512
YRA708	4 mm × 79 mm, Mounted	W614, W670, Lee Laser 708
YR369CC	3 mm × 69 mm, TEM <sub>00</sub> , -1m CC	M118
YRA1143	3 mm × 69 mm, Mounted	M118, Quantronix 114
YR258CC	3 mm × 79 mm, TEM <sub>00</sub> , -1m CC	M118
YRA1163	3 mm × 79 mm, Mounted	M118, Quantronix 116
YRA808	4 mm × 79 mm, Mounted	W670, W724, Lee Laser 808
YRA1164	4 mm × 79 mm, Mounted	W429
<b>T.L.T.</b>		
YR512	4 mm × 79 mm, TEM <sub>00</sub>	800, 1200, 1400
YRA9560	4 mm × 79 mm, Mounted	800
YRA512	4 mm × 79 mm, Mounted	1200.14
YR1173B	3 mm × 108 mm, TEM <sub>00</sub>	2400
YRA1173	3 mm × 108 mm, Mounted	2400, Quantronix 117
<b>TOSHIBA</b>		
YR7152	7 mm × 152 mm	S-T700T
<b>TRUMPF</b>		
YR257	6.35 mm dia, Premium Grade Rod	HL353D, HL506D, HL703D, HL1033D, HL1504D, HL2006D, HL3006D, HL4006D
YRA257	6.35 mm dia, Mounted, Premium Grade Rod	HL353D, HL506D, HL703D, HL1033D, HL1504D, HL2006D, HL3006D, HL4006D
YR2570	6.35 mm dia, Standard Grade Rod	HL353D-HL4006D
YRA2570	6.35 mm dia, Mounted, Standard Grade Rod	HL353D-HL4006D
YR270	4 × 105 mm	VectorMark
YR5179	5 mm dia, Premium Grade Rod	HL803D
YRA5179	5 mm dia, Mounted, Premium Grade Rod	HL803D
YR51790	5 mm dia, Standard Grade Rod	HL803D

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For All Solid State Laser Systems

Item Part Number	Description	Laser Rail
YRA51790	5 mm dia, Mounted, Standard Grade Rod	HL803D
NDGLASSLAG15	6 mm × 185 mm	LAG15
<b>UNIVERSAL LASER SYSTEMS</b>		
YR512	4 mm × 79 mm, TEM <sub>00</sub>	50 Watt
YRA808	4 mm × 79 mm, Mounted	50 Watt, Lee Laser 808
<b>WAVELIGHT</b>		
ALEX5111	5 mm × 111 mm, Alexandrite	Epi Xan BLM 1000 AX
ALEXA1000AX	5 mm × 111 mm, Mounted	Epi Xan BLM 1000 AX
<b>ZANABONI</b>		
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 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 % @ 1053nm
ALEXANDRITE	< 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
Er:YAG	< 10 arc secs	<5 arc mins	10/5	$\lambda/10$	<0.25 % @ 2940nm

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. Breakages do occur.

Part Number	Description
<b>MATERIAL: Nd:YAG</b>	
YR001	2.0–6.35 mm dia, Ends F/P, AR/AR @ 1064 nm, <0.25 %R
YR001B	2.0–6.35 mm dia, Brewster, AR/AR @ 1064 nm, <0.25 %R
YR001R	2.0–6.35 mm dia, Radius, AR/AR @ 1064 nm, <0.25 %R
YR001W	2.0–6.35 mm dia, Wedge, AR/AR @ 1064 nm, <0.25 %R
YR002	7.0–8.5 mm dia, Ends F/P, AR/AR @ 1064 nm, <0.25 %R
YR002B	7.0–8.5 mm dia, Brewster, AR/AR @ 1064 nm, <0.25 %R
YR002R	7.0–8.5 mm dia, Radius, AR/AR @ 1064 nm, <0.25 %R
YR002W	7.0–8.5 mm dia, Wedge, AR/AR @ 1064 nm, <0.25 %R
YR003	9.0–9.525 mm dia, Ends F/P, AR/AR @ 1064 nm, <0.25 %R
YR003B	9.0–9.525 mm dia, Brewster, AR/AR @ 1064 nm, <0.25 %R
YR003R	9.0–9.525 mm dia, Radius, AR/AR @ 1064 nm, <0.25 %R
YR003W	9.0–9.525 mm dia, Wedge, AR/AR @ 1064 nm, <0.25 %R
YR004	10.0–12.5 mm dia, Ends F/P, AR/AR @ 1064 nm, <0.25 %R
YR004B	10.0–12.5 mm dia, Brewster, AR/AR @ 1064 nm, <0.25 %R
YR004R	10.0–12.5 mm dia, Radius, AR/AR @ 1064 nm, <0.25 %R
YR004W	10.0–12.5 mm dia, Wedge, AR/AR @ 1064 nm, <0.25 %R
<b>MATERIAL: Nd:YLF</b>	
YLF001	2.0–6.35 mm dia, Ends F/P, AR/AR @ 1053 nm, <0.25 %R
YLF001B	2.0–6.35 mm dia, Brewster, AR/AR @ 1053 nm, <0.25 %R
YLF001R	2.0–6.35 mm dia, Radius, AR/AR @ 1053 nm, <0.25 %R
YLF001W	2.0–6.35 mm dia, Wedge, AR/AR @ 1053 nm, <0.25 %R
YLF002	7.0–8.5 mm dia, Ends F/P, AR/AR @ 1053 nm, <0.25 %R
YLF002B	7.0–8.5 mm dia, Brewster, AR/AR @ 1053 nm, <0.25 %R
YLF002R	7.0–8.5 mm dia, Radius, AR/AR @ 1053 nm, <0.25 %R
YLF002W	7.0–8.5 mm dia, Wedge, AR/AR @ 1053 nm, <0.25 %R
YLF003	9.0–9.525 mm dia, Ends F/P, AR/AR @ 1053 nm, <0.25 %R
YLF003B	9.0–9.525 mm dia, Brewster, AR/AR @ 1053 nm, <0.25 %R
YLF003R	9.0–9.525 mm dia, Radius, AR/AR @ 1053 nm, <0.25 %R
YLF003W	9.0–9.525 mm dia, Wedge, AR/AR @ 1053 nm, <0.25 %R
YLF004	10.0–12.5 mm dia, Ends F/P, AR/AR @ 1053 nm, <0.25 %R
YLF004B	10.0–12.5 mm dia, Brewster, AR/AR @ 1053 nm, <0.25 %R
YLF004R	10.0–12.5 mm dia, Radius, AR/AR @ 1053 nm, <0.25 %R
YLF004W	10.0–12.5 mm dia, Wedge, AR/AR @ 1053 nm, <0.25 %R

Part Number	Description
<b>MATERIAL: Alexandrite</b>	
ALEX001	2.0–6.35 mm dia, Ends F/P, AR/AR @ 755 nm, <0.25 %R
ALEX001R	2.0–6.35 mm dia, Radius, AR/AR @ 755 nm, <0.25 %R
ALEX001W	2.0–6.35 mm dia, Wedge, AR/AR @ 755 nm, <0.25 %R
ALEX002	7.0–12.5 mm dia, Ends F/P, AR/AR @ 755 nm, <0.25 %R
ALEX002R	7.0–12.5 mm dia, Radius, AR/AR @ 755 nm, <0.25 %R
ALEX002W	7.0–12.5 mm dia, Wedge, AR/AR @ 755 nm, <0.25 %R
ALEX003	9.0–9.525 mm dia, Ends F/P, AR/AR @ 755 nm, <0.25 %R
ALEX004	10.0–12.5 mm dia, Ends F/P, AR/AR @ 755 nm, <0.25 %R

<b>MATERIAL: Ruby</b>	
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

<b>MATERIAL: Er:YAG</b>	
ER001	2.0–6.35 mm dia, F/P, AR/AR @ 2940 nm, <0.25 %R
ER001W	2.0–6.35 mm dia, Wedge, AR/AR @ 2940 nm, <0.25 %R
ER002	7.0–12.5 mm dia, F/P, AR/AR @ 2940 nm, <0.25 %R
ER002W	7.0–12.5 mm dia, Wedge, AR/AR @ 2940 nm, <0.25 %R
ER003	9.0–9.525 mm dia, F/P, AR/AR @ 2940 nm, <0.25 %R
ER003W	9.0–9.525 mm dia, Wedge, AR/AR @ 2940 nm, <0.25 %R
ER004	10.0–12.5 mm dia, F/P, AR/AR @ 2940 nm, <0.25 %R
ER004W	10.0–12.5 mm dia, Wedge, AR/AR @ 2940 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 of laser rods sent to us for re-furbishing. Breakages do occur.

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## LASER S.O.S. GROUP

TECHNOLOGY AND MARKET **DRIVEN COMPANY!**

Unit 3, Burrel Road, St. Ives,  
Cams, PE27 3LE, England.

Tel.: +44 (0) 1480 460990  
Fax: +44 (0) 1480 469978

E-mail: [sales@lasersos.com](mailto:sales@lasersos.com)  
[www.lasersos.com](http://www.lasersos.com)