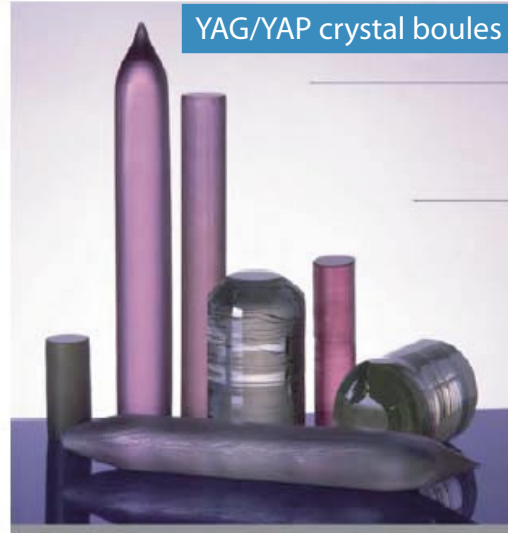


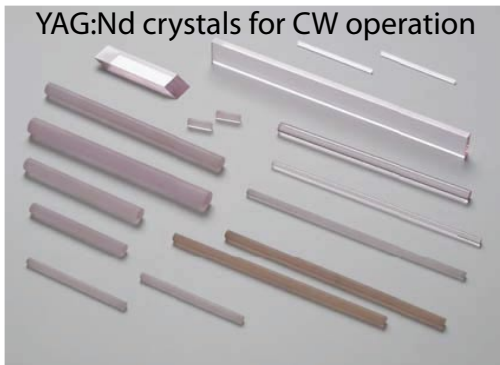
# YAG:RE

## Crystals and Laser Rods

YAG/YAP crystal produced under special requirements is a standard product line of E.L.S.CO. Total list of YAG crystals for unique laser rods manufacturing includes YAG:Nd<sup>+3</sup>, YAG:CTH, YAG:Tm, YAG:Yb, (Er-Y)AG and number of perovskite crystals like YAP:Nd, YAP:Er, YAP:Tm. Czochralsky crystal growth technique is a main technological process for YAG/YAP crystal production in E.L.S. Co, although alternative technologies (horizontally directed crystallization or flux technique) are sometimes used to meet special customer demands.



### Standard YAG:Nd laser rod specifications



Orientation: [100] or [111] within 1 degree  
Doping Level: 0.5...0.8% at. Nd  
Sizes  
Diameter: 1-7mm  
Length: up to 190 mm  
End Configuration flat-flat with AR Coatings  
Flatness: 1/10 wave  
Parallelism: within 1 minute of arc



YAG:Nd and (Er-Y)AG rods  
Orientation: [100] or [111] within 1 degree  
Doping Level: 1.0...1.3 at. Nd  
Diameter: 3-10mm  
Length: up to 130 mm  
End Configuration flat-flat with AR Coatings  
Flatness: 1/10 wave

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