

Laser Components



Laser Lamps and IPL Light Sources

Laser SOS (India) Pvt. Ltd. provides laser users with the largest range of retrofit flashlamps and Krypton Arc lamps available. Laser SOS (India) Pvt. Ltd. is one of the largest providers of retrofit laser lamps and IPL light sources.

In many cases there are several laser lamps or light sources available for any given laser system.

Where possible you will be provided with the lamp brand of your choice. Lamps are continuously being improved so at all times you will be supplied with best suited for your laser system and application.

We welcome your OEM enquiries.



Flow Tubes and Flow Plates

Flow tube, water jackets and flow plates are used in liquid cooled solid state lasers to channel and direct coolant across the surface of laser rods and high powered laser lamps. Flow tubes and flow plates also ensure the smooth flow of the coolant minimising any turbulence, eddies or boiling within the laser head and cavity reflector. Laser SOS (India) Pvt. Ltd. provides a comprehensive range of retrofit flow tubes, water jacket and flow plates produced in a range of material such as Pyrex, Borosilicate, Cerium doped quartz, Samarium doped glass and many more.

We welcome your OEM enquiries.



Laser Mirrors

Solid state lasers require mirrors maintaining lasing action. Most resonators consist of a high reflector (rear mirror) and partially transmissive output coupler (front mirror). Mirror substrates are produced from a range of high quality optical materials such as BK7, fused Quartz and other exotic glasses selected for its intended application. Laser mirrors are fabricated in a multitude of configurations such as convex, concave, flat, wedged or a mixture of both. Coatings are selected according to both maximum power damage threshold and wavelength criteria. Laser SOS (India) Pvt. Ltd. provides a comprehensive range of retrofit mirrors. All mirrors have been carefully selected for each given laser system and application.

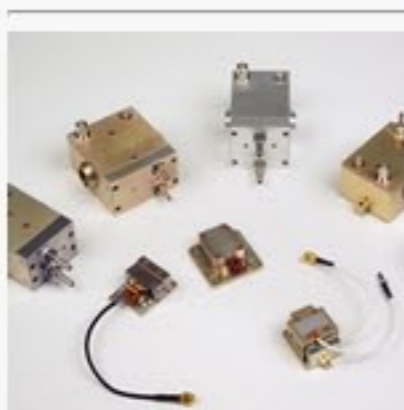
We welcome your OEM enquiries.



Lens Protective Windows

Lens Protective windows are recommended for shielding expensive optics such as focussing lenses and F-theta lenses from splatter and debris during laser processing. Laser SOS (India) Pvt. Ltd. provides a comprehensive range of retrofit protective windows. These windows are available in a range of glass materials such as BK7, fused quartz and borosilicate and are available with or without anti-reflective coating.

We welcome your OEM enquiries.



Accousto-Optic Q-Switches - 24MHz, 27.12MHz, 40.68MHz, 68MHz

Laser SOS (India) Pvt. Ltd. provides solid state laser users with a comprehensive range of retrofit Accousto-optic Q-switches. Both water cooled and air cooled q-switches are available for a multitude of existing lamp and diode pumped laser systems in the field.

We welcome your OEM enquiries.



Laser Rods - Nd:YAG, ND:YLF, Er:YAG, Alexandrite, Nd:Glass & Ruby

To optimise the beam quality and maximise the output power of a laser, the correct laser medium and dopant level needs to be selected. Laser SOS (India) Pvt. Ltd. provide solid state laser users with the largest comprehensive range of retrofit laser rods and assemblies available.

Each laser rod or rod assembly is carefully selected for each given laser system.

We welcome your OEM enquiries.



Laser Cavities - Gold, Ceramic, Silver and Doped Glass

Laser SOS (India) Pvt. Ltd. provides solid state laser users with the largest selection of retrofit pump cavities currently available. Gold and ceramic are preferred cavity reflectors used in most laser systems. Laser SOS has developed a unique and proprietary gold plating process referred to as LaserGold. LaserGold plated cavities have been demonstrated to provide the highest reflective efficiency in the market. Over the life time of the gold cavity, the reflective efficiency will reduce due to surface damage, contaminant deposits and possible corrosion. In that case we recommend to replace it to maintain maximum laser performance and output.

We welcome your OEM enquiries.



Mounted Lens Assemblies and Singlets

Laser SOS (India) Pvt. Ltd. provides a comprehensive range of high quality singlets and achromats and multi-element assemblies. Singlets and achromats can be used as focussing lenses in a static or flying system for focussing laser beams. Single lenses can be easily combined to achieve simple beam expanders with the required expansion factor. Negative lenses such as plano-concave lenses or symmetric concave lenses can be combined with positive plano-convex lenses for standard systems. Laser SOS also provides a comprehensive range of retrofit optics for many existing laser systems in the field. All optics are available in a range of wavelengths; 355nm, 405nm, 532/633/780/830nm and 1064nm.

We welcome your OEM enquiries.



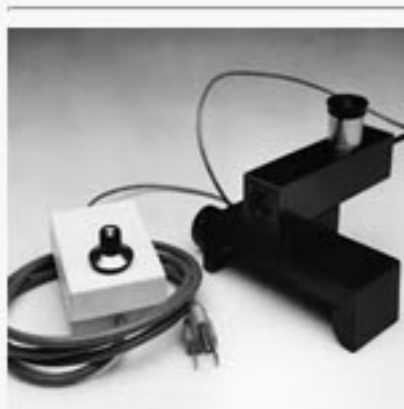
External Beam Bending Mirrors and Dichroic Mirrors

Beam bending mirrors are used to direct laser beams within an optics chain. A 45 degree angle of incidence is the most common bend. Most beam delivering mirrors are coated with both transmissive and anti-reflective coatings depending on application.

Dichroic mirrors are used to selectively reflect laser beams according to its wavelength and not to its plane of vibration.

Laser SOS (India) Pvt. Ltd. provides a comprehensive range of retrofit beam bending and dichroic mirrors for many existing laser systems in the field.

We welcome your OEM enquiries.



Autocollimators

Autocollimator model AC50 is used for aligning optical components such as mirrors, laser rods and Q-switches on a solid state laser rail. The optical elements on the laser rail reflect and appear as bright images in the autocollimator. When all the reflecting images are super-imposed on each other, the optical rail is aligned. The AC50 autocollimator is primarily designed for use on Plano-parallel reflective surfaces..

We welcome your OEM enquiries.



Galaxy Power and Energy Meter

The GALAXY power and energy meter is a versatile measuring instrument. The GALAXY is ideally suited for laser service engineers on the road and for laser process engineers requiring a quick and accurate system for measuring laser power. The overall compact design, its simplicity of operation, and its affordable cost provides the user with the ideal laser measuring solution.

responsible CW lamp pumped TAG laser sources for OEMs and laser systems

We welcome your OEM enquiries.



Laser Protective Eyewear - Lasers and I.P.L.

Laser SOS (India) Pvt. Ltd. provides a complete range of laser protective eyewear for CW, Pulsed, Femto second and Pico second lasers. A range of IPL eyewear is also available for patient eye protection. The protective eyewear is available in a large range of styles and fitted with glass or plastic lenses depending on degree of eye protection required.

All eyewear complies with CE regulations..



Laser Filter Glass

Laser SOS (India) Pvt. Ltd. provides solid state laser users with a comprehensive range of glass filters. Depending on application, wide, narrow, long & short wavelength pass filters are available. For laser safety, a range of attenuation (blocking) filter are supplied in a range of sizes.

We welcome your OEM enquiries.



Water Pump Assemblies & Components

Laser SOS (India) Pvt. Ltd. provides a comprehensive range of retrofit water pumps and replacement components for a multitude of existing laser systems..

We welcome your OEM enquiries.