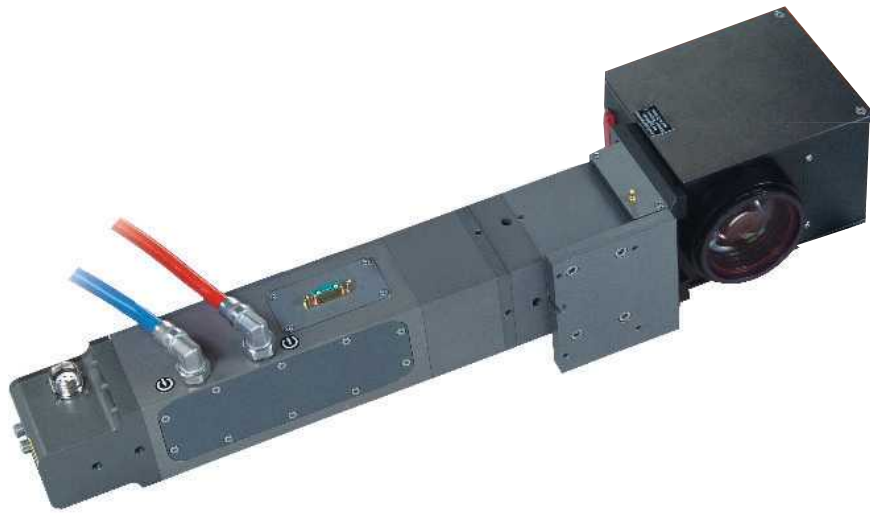


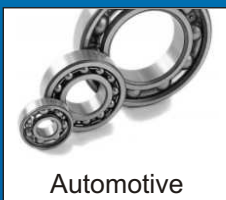


solutions for industrial  
marking applications

*Perma*ll\*



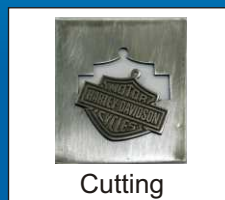
**HPL** high power 60 & 80 Watt YAG  
diode pumped marking laser



Automotive



Reflective Surfaces



Cutting



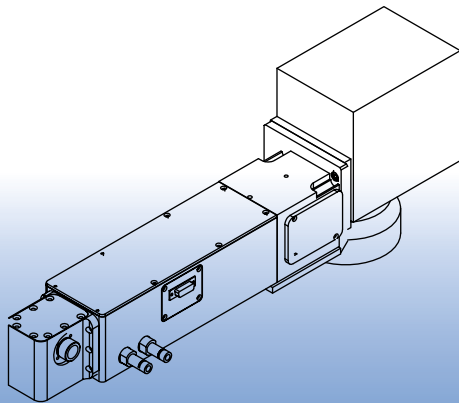
Engraving

The **Lasonall HPL** has a high electro-optic conversion efficiency which provides low electrical consumption along with a size reduction of the cooling element. This high efficiency also increases laser diode life for longer term system performance.

The laser resonator is designed specifically for marking, engraving and thin gauge cutting applications by optimizing beam quality for higher processing power and speed.

The **Lasonall HPL** is the choice for precision marking of components, surgical instruments, tools and ball bearings. The Lasonall HPL is able to engrave metals with **High Material Removal Capability** using 100/160mm focal length objectives. The high power density of the laser beam combined with the speed of the scanning head allows for fast, deep engraving on all metals.

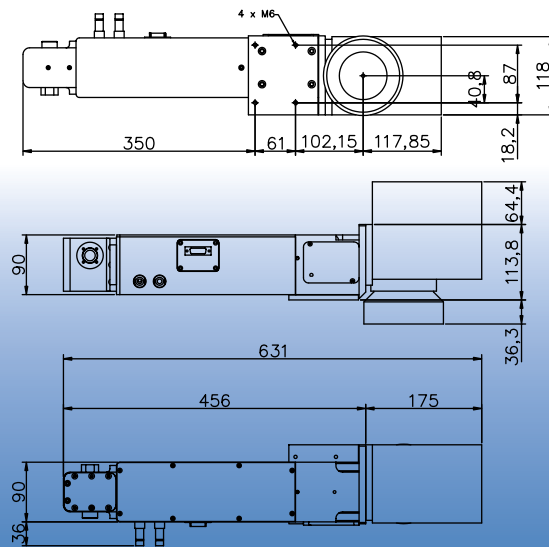
The beam quality resulting from the **HPL** design also makes the system an effective tool for precision cutting of thin sheet metal or highly reflective materials such as silver and gold. This can be achieved using a 100mm focal lens directly or a special head to obtain high power density in the laser. The **Lasonall HPL** high power laser meets a broad range of **Demanding Industrial Laser Marking** applications.



Laser Model	Lasonall HPL
Laser Medium / Wavelength	Nd:YAG / 1064 nm
Nominal Power	60 / 80 Watt +5% (@ C.W. Multimode)
Beam Quality	M2 < 8
Power Stability (8 h)	<5 =% rms
Pulse width	35 ns (@20 kHz)
Pulse Energy / Peak power	Max. 6500 uJ / 190 kW
Frequency	10-100 kHz
Aiming beam	Class 2M Red Diode laser; 635 +/-5nm; 3 mW
Power Supply	AC 90-240 V / 50-60 Hz/ 1 Ph / 2000 W
Cooling (TEC air cooled)	Heat load 700 W (2400 btu/h)
Operating Temperature	+10 to +35 C (46 to 95 F)



Lenses	Specifications
F-Theta 100 mm	Focal width: 100 mm Marking Field: 50 x 50 mm
F-Theta 160 mm	Focal width: 160 mm Marking Field: 110 x 110 mm
F-Theta 254 mm	Focal width: 254 mm Marking Field: 180 x 180 mm
F-Theta 330 mm	Focal width: 330 mm Marking Field: 215x 215mm



Ostling follows a policy of continuous product improvement. Specifications are subject to change without notice.

HPL is a class 4 laser product.

This Class 4 laser component is offered to qualified manufacturers who shall provide interlocks, indicators and other appropriate safety features in full compliance with 21 CFR 1040 and/or other applicable national and local regulations.

Laser interaction with organic or inorganic material can cause TOXIC FUMES / PARTICLES.

