#### **Full Laser Parts in Nd:YAG Lasers**

For lamp-pumped Nd:YAG lasers and diode-pumped Nd:YAG lasers

Based on our years experience on lasers, we can provide the OEM laser makers with all laser parts in the diode- or lamp-pumped Nd:YAG laser parts. We also supply you with all mechanical parts in the laser heads. The laser base, carrier and cover are made of aluminum via injection mold. They are precise, reliable and repeatable.

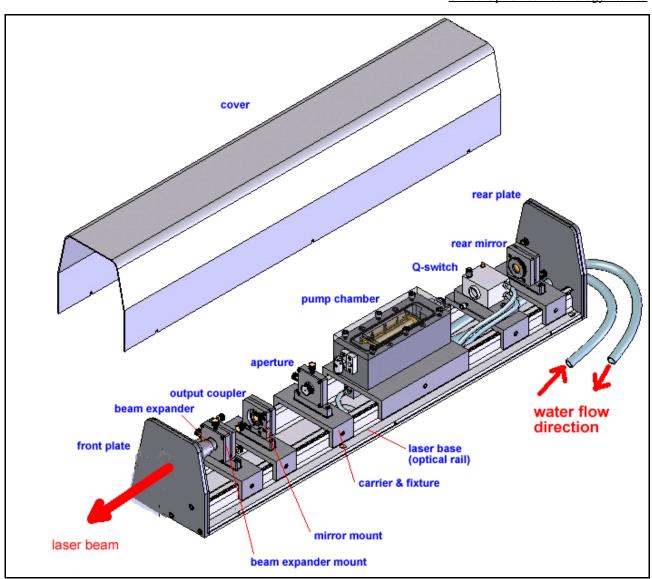
#### 1. Full Parts for Lamp-pumped Nd:YAG Lasers

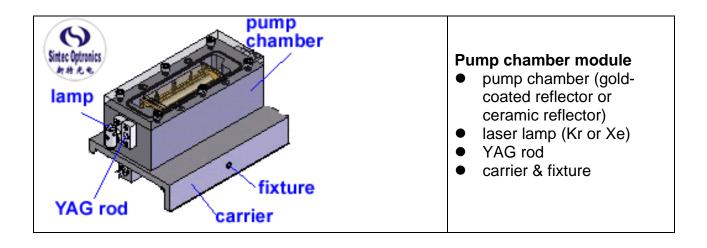
Including laser head, CW or pulsed lamp driver (power supply), chiller and Q-switch driver.

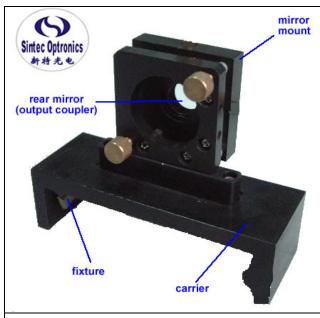


#### (1) Laser Head

Including pump chamber including YAG rod and lamp, resonator optics including output coupler and reflective mirror (or called rear mirror), Q-switch, aperture, beam expander and mechanical parts including laser base (or called optical rail), carrier, cover, vertical front plate and vertical rear plate.





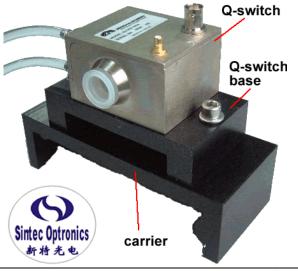


#### **Resonator modules**

including output mirror module and rear mirror module

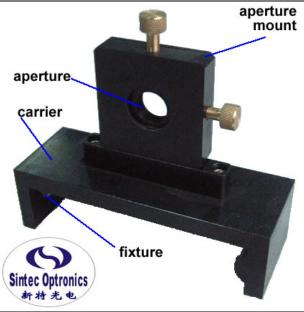
- output coupler (or rear mirror)
- mirror mount
- carrier & fixture

Remark: prepared for default mirror dimension of D20x5mm. Other available upon request.



#### Q-switch module

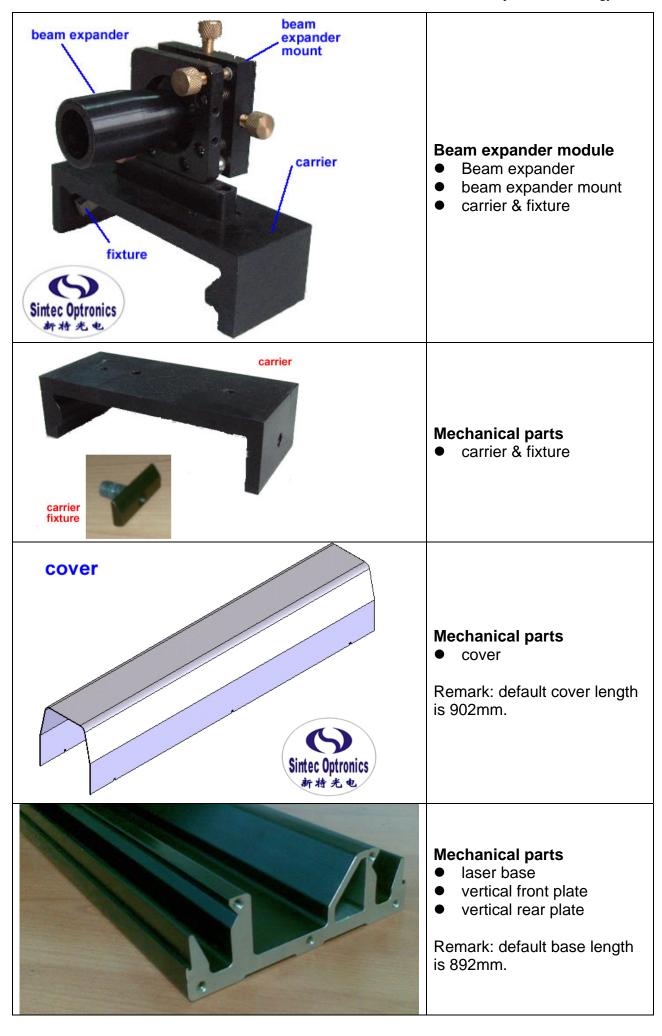
- Q-switch
- Q-switch base
- Carrier & fixture



## Aperture module

- Aperture
- aperture mount
- carrier & fixture

Remark: default aperture diameter is 1.5mm. Others available upon request.



## (2) lamp driver

CW or pulsed lamp drivers (power supply), dual-lamp drivers





CW lamp driver

Pulsed lamp driver

## (3) Q-switch driver



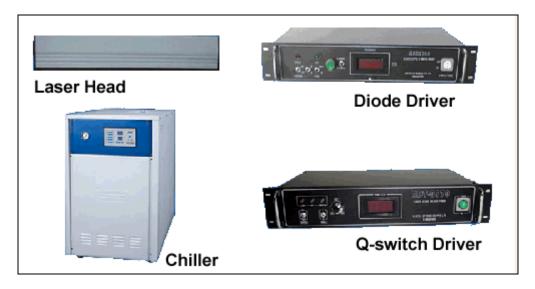




R390 series drivers

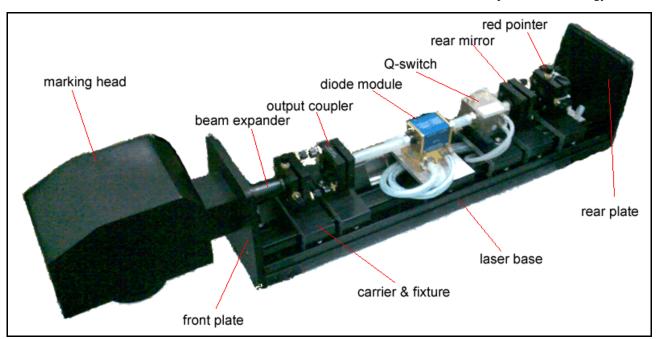
#### 2. Full Parts for Diode-pumped Nd:YAG Lasers

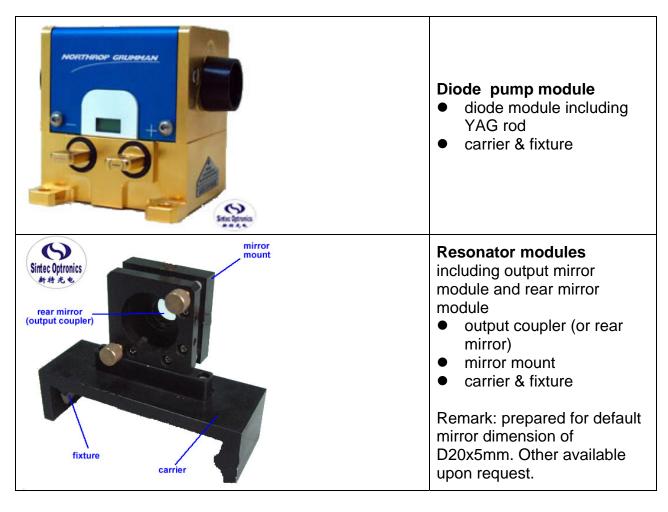
Including laser head (diode pump module, laser resonator, Q-switch cell), Q-switch driver, diode driver and chiller.



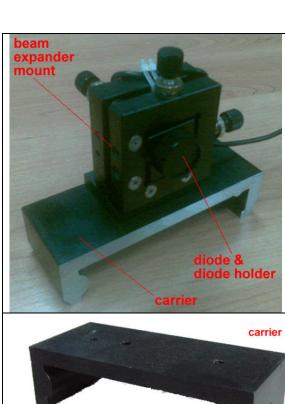
#### (1) Laser Head

A laser head consists of laser base, diode pump module, output coupler and rear mirror, front plate, rear plate, and cover. Options include aperture, AO Q-switch cell, red pointer and beam expander.



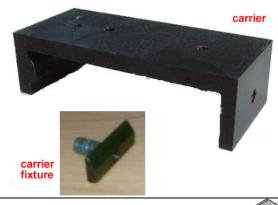




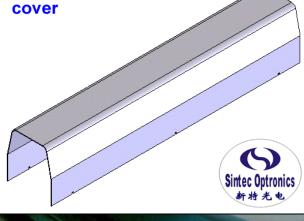


# Red pointer module

- red diode laser & diode holder
- beam expander mount carrier & fixture.



# Mechanical parts ● carrier & fixture



## **Mechanical parts**

cover

Remark: default cover length is 682mm.



## **Mechanical parts**

- laser base
- front plate
- rear plate

Remark: default base length is 672mm.

#### (2) Q-switch Driver





19" panel QSD series drivers

N390 series drivers

#### (3) Diode Driver



The panel is standard 19 inch.

#### (4) Control Cabinet

Used to mount key board, Q-switch driver, computer, lamp driver (or diode driver) and electrical controller. The electrical controller is used in YAG laser markers.

