



## GERMANY

### EXCELLENCE IN LASER AND MEDIATECHNOLOGY



**LightCube Lasersystems**  
375nm up to 670nm, 10mW up to 30W  
Single Diode up to high integrated Systems

*Diode, DPSS and OPSL Lasersystems  
unique - reliable - maintenance free*

Diode, OPSL und DPSS Lasersysteme  
einzigartig - zuverlässig - wartungsfrei



**VULCAN Industrial Laser**  
Adjustment and Positioning Systems

*from an easy laser-line up to  
complex CAD-drawing-projection*

von der einfachen Hilfslinie bis zur komplexen  
CAD-Zeichnungsprojektion



**OEM - Electronic - Products**  
Diode Drivers, TEC Coolers, Scann Amplifiers

*Serial products and customized solutions for easy  
implementation*

Serienprodukte und kundenspezifische Lösungen zur  
einfachen Integration



**Components**  
Mirrors, Filters, Lenses, Achromates, Aspheres

*Precise optical and mechanical  
solutions for easy implementation*

Optische und Mechanische Präzisions - Lösungen zur  
einfachen Integration



**Service**  
Gas Ion Laser Refill,  
Laserservice, Lasersafety-training  
Soft & Hardware training

Gas Ionen Laser Refill  
Laserservice, Lasersicherheitsschulungen  
Soft & Hardware Schulungen

### Certified Quality

DIN ISO 9001 : 2008  
Coherent  
Jenoptik



### Awarded

More than 30 national  
and international awards  
for products, installations  
and shows.



Customized developments  
are welcome

### NEW WEB SHOP

<http://shop.hb-laser.com/>

HB-Laserkomponenten GmbH  
Heldenbergstr. 26  
73529 Schwaebisch Gmuend  
Germany  
Tel.: +49 7171 104692 0  
Fax. +49 7171 104692 200  
Email: [info@hb-laser.com](mailto:info@hb-laser.com)  
Web: [www.hb-laser.com](http://www.hb-laser.com)



## VULCAN M18

### FEATURES:

- 5-30VDC operation with reverse polarity protection
- Power up to 200mW
- Red, infrared, blue laser wavelengths available
- Gaussian/uniform line optics and DOE available
- Simple, external hand focusing mechanism
- Analogue and concurrent TTL modulation up to 20MHz
- IP67 rated, fully water proof
- Thread mounted for simple and versatile mounting
- LED signal indicates laser operation and any malfunction
- Over voltage protection with surge/spike protection
- Quick installation by M18 thread for Sensor mounting or Vulcan standard mounting H8-M18
- Wide range of diodes and optics
- Potential-free housing for trouble-free installation

### APPLICATIONS:

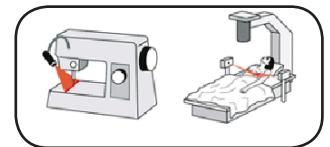
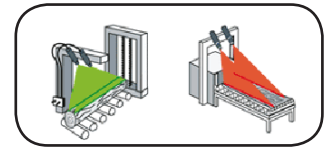
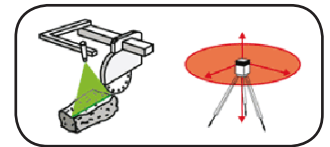
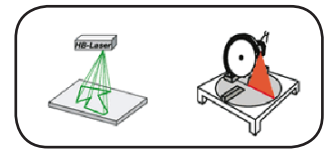
- Science
- Bio photonics
- Optical data transmission
- High-End adjusting and targeting system
- Lab application
- Machine Vision
- Machine construction
- Medical science
- Automotive industry
- 3D Measurement
- Metrology
- Spectroscopy
- Alignment / positioning



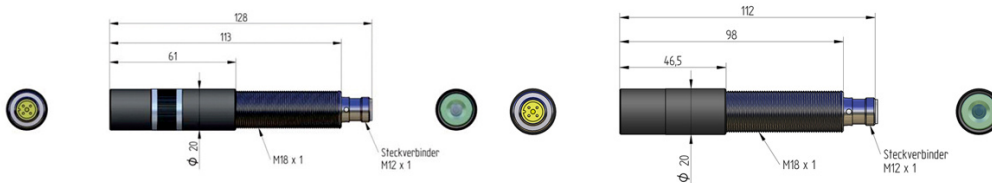
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Adjustment and Positioning Systems

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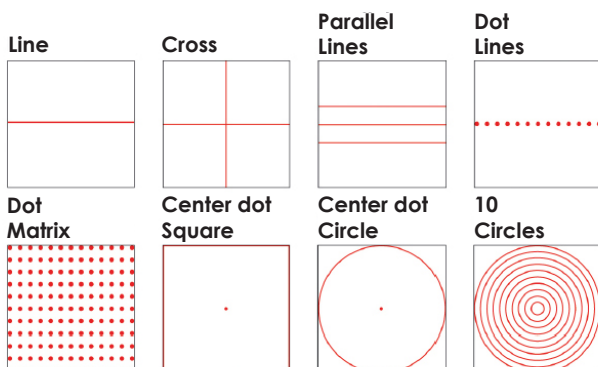


### TECH. DRAWING



**NEW WEB SHOP** <http://shop.hb-laser.com/>

### OPTIC ACCESSORIES



### VULCAN CPS



CAD- drawing projection system  
Self calibrating  
project complex CAD-drawings  
with an accuracy of  
1 mm @ 10 m  
TCP-IP and Wireless support  
IP 65 Housing  
Active cooling  
Class 2B laser with safety system  
GPS support optional

**HB-LASER**

