

CLH
**COAXIAL
LASER HARDENING**

ADVANTAGES

- No optical elements inside the bore hole and thus no risk of contamination and collision
- No need for rotation axes and thus less additional effort for plant integration
- Easy adaptability using the scapacs®-Kit

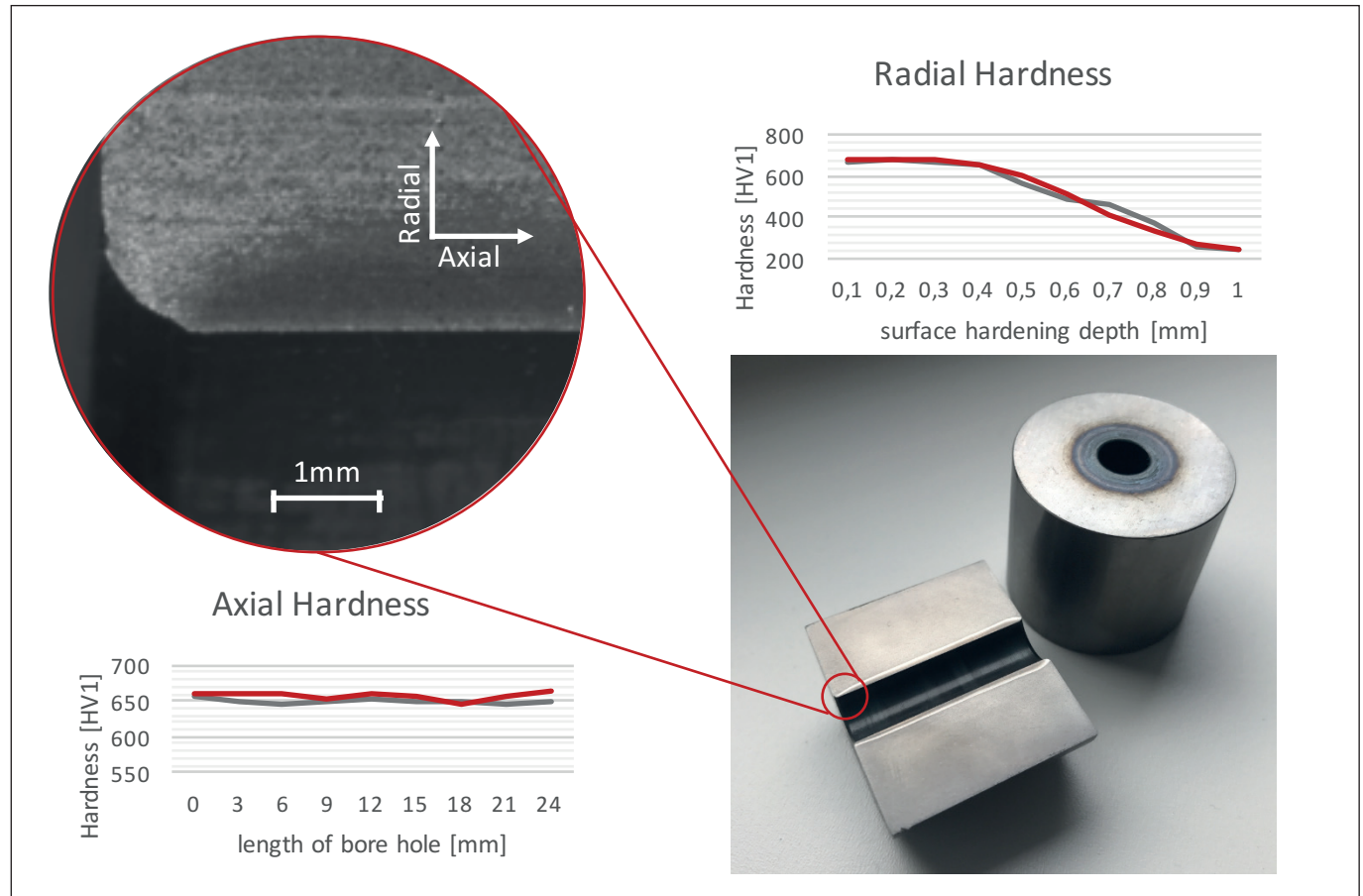
Hardening of the inner surface of a bore hole

APPLICATIONS

- Inner surfaces of bore and blind holes
- Small-diameter shaft hardening
- Grooves
- End faces

PRINCIPLE

- Best laser absorption on the surface by using:
 - Flat angle of incidence
 - Circular laserspot

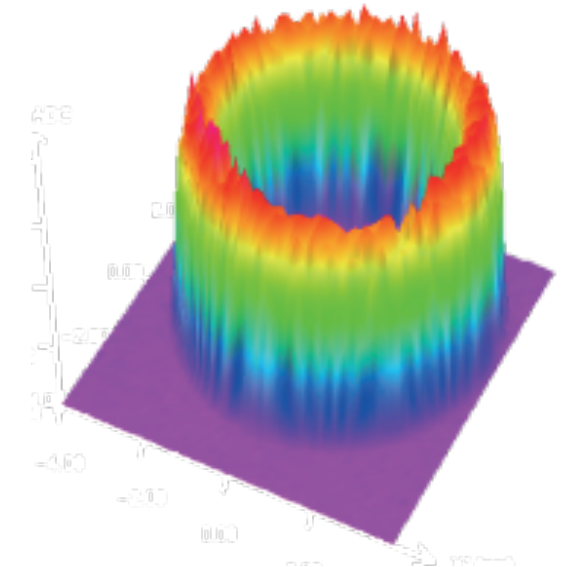


TECHNICAL DATA

Wavelength	1030 – 1080 nm
Laser power	Max. 8 KW
Fiber couplings	Trumpf-B, Trumpf-D, Optoskand QBH
Beam parameter product (BPP)	< 30mm* mrad
IP protection degree	Processing head: IP64

OPTIONS

- Integration of a camera + crosshair generator for adjustment
- Integration of a pyrometer to use a closed loop control



Circular Intensity Profile of the laser beam

CONTACT

Scansonic MI GmbH
Schwarze-Pumpe-Weg 16
12681 Berlin
Deutschland, Germany

phone +49 – 30 – 91 20 74 – 10
fax +49 – 30 – 91 20 74 – 29
e-mail info@scansonic.de
web www.scansonic.de