



# Temperature control

Technical data

## Temperature control for plastic welding

## Temperature control for laser case hardening

### CONFIGURATION

#### AVAILABLE LASERS

TruDiode 151, TruDiode 301,  
others on request

TruDisk up to 6 kW

#### AVAILABLE FOCAL LENGTHS

200 / 250 mm (BEO D50)  
200 / 280 mm , others upon  
request (PFO 20-2 post-objective)

560 mm , others upon request  
(PFO 20-2 post-objective)

#### AVAILABLE FOCAL LENGTHS OF COLLIMATION

35 mm (BEO D50)  
34.5 / 56 / 80 mm (PFO 20-2 post-  
objective)

80 mm (PFO 20-2 post-objective)

### PARAMETERS

#### PYROMETER MEASUREMENT RANGE

180 °C - 520 °C (with emission  
factor  $\epsilon = 1$ )

650 °C - 1600 °C

#### PYROMETER MEASUREMENT RATE

2 kHz (500  $\mu$ s)

4 kHz (250  $\mu$ s)

#### TEMPERATURE CONTROL CYCLE RATE

12.5 kHz (80  $\mu$ s)

12.5 kHz (80  $\mu$ s)

#### TYPICAL PRECISION

3 % at 250°C (providing there is  
an annual calibration)

2 % at 1000°C (providing there is  
an annual calibration)