

LASER WELDING HEAD YW52

The compact YW52 Welding Head is used for all diode and solid-state laser machines. Due to the systems modular design customers can tailor the package to meet the specific needs of their application. The basic version is very competitively priced. But the full process monitoring features can make the complete system ideal for fully automated production processes.

EFFICIENT

- capable for highest laser power
- high-quality welding by means of high-grade optics and adaptable protective shield gas supply
- long protective window lifetime by application specific CrossJet concepts

FLEXIBLE

- modular design
- individual, customer-specific configuration
- simple integration into existing systems
- different focal lengths for collimation and focusing

USER FRIENDLY & SAFE

- simple teaching thanks to monitoring camera
- easy optics exchange
- monitored protective window cartridge
- operating status can be monitored by PC



SOUDAGE WELDING SCHWEISSEN
 СВАРКА SALDATURA 焊接 SVETSNIH
 LASSEN SOLDADURA Soudage

MEASURE

SOUDAGE WELDING SCHWEISSEN
 СВАРКА SALDATURA 焊接 SVETSNIH
 LASSEN SOLDADURA Soudage

CONTROL

SOUDAGE WELDING SCHWEISSEN
 СВАРКА SALDATURA 焊接 SVETSNIH
 LASSEN SOLDADURA Soudage

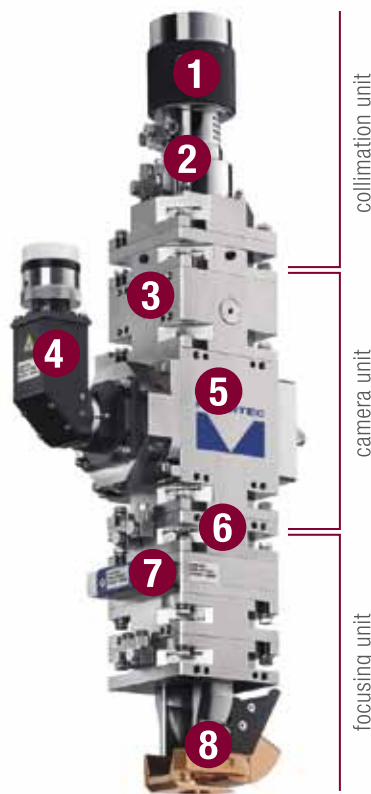
PROCESS

SOUDAGE WELDING SCHWEISSEN
 СВАРКА SALDATURA 焊接 SVETSNIH
 LASSEN SOLDADURA Soudage

MONITOR

TECHNICAL SPECIFICATIONS OF YW52 WELDING HEAD

| | |
|------------------------------|--------------------------------------|
| max. laser power | 20 kW |
| focal lengths collimation | 100 mm, 125 mm, 150 mm, 200 mm |
| focal lengths focusing | 150 to 1000 mm |
| weight | 3 to 6 kg, depending on construction |
| dimensions (standard module) | 74 x 74 mm (edges dimension) |



- 1 fibre socket
- 2 aperture, water cooled
- 3 collimation lens, water cooled
- 4 camera module
- 5 beam splitter module
- 6 focusing lens, water cooled
- 7 protective window cartridge
- 8 CrossJet with air guide plate and air connection

QUALITY CONTROL

- can be combined with pre-process monitoring (seam tracking LPP), in-process monitoring (Laser Welding Monitor LWM), and post-process monitoring (seam geometry monitoring SGM)
- monitored protective window cartridge independent of laser power, control of presence, temperature and the degree of contamination of the window

COOLING SYSTEM

- no separate cooling system necessary; the laser cooling unit can be used

The given data was generated for a typical application and may be different given other circumstances. Furthermore misprints, changes and/or innovations may lead to differences in the listed measurements, technical data and features. Therefore all information is non-binding and technical data, measurements as well as features are not guaranteed by information in this product information.

02/Bg/15.10.2010