# VL-W1

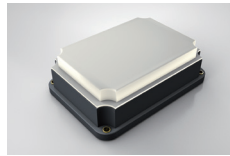**The VL-W1 laser welding system with its unique Panasonic fiber laser technology realizes clean and precise plastic welded joints.**

# IN Your Future

# Information about the laser welding system series VL-W1

## Highlights

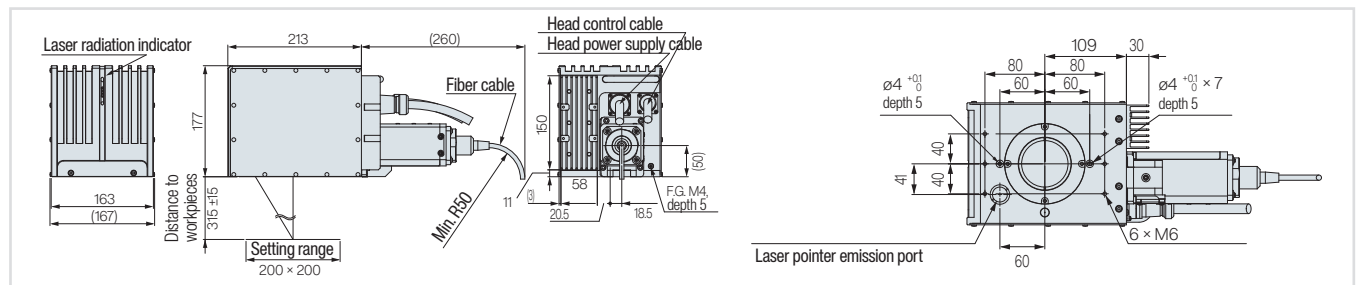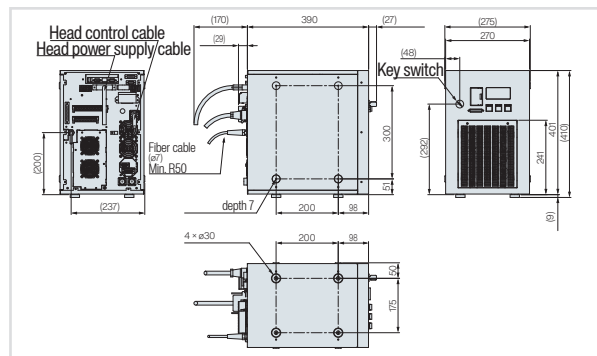| 3D | 3D-welding per parallel laser beam | ◎ | Variable beam diameter | □ | Power correction for curves |

## Specifications

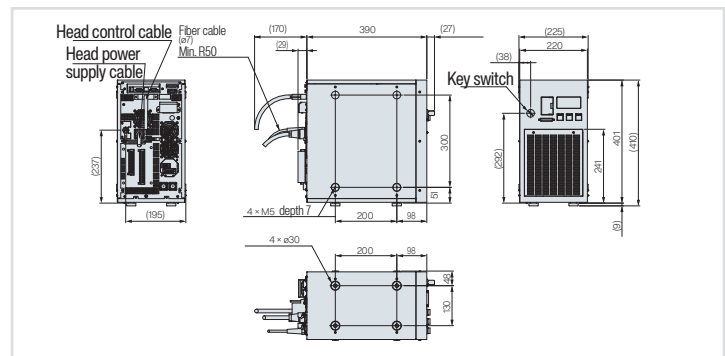| Item \ Model No. | Standard | | Large setting range | |
|---|---|---|---|---|
| | **VL-W1500-N** | **VL-W1A00-N** | **VL-W1506-N** | **VL-W1A06-N** |
| Laser output power | 50W | 100W | 50W | 100W |
| | Yb fiber laser; λ = 1070nm, class 4, CW oscillation | | | |
| Output power at workpiece | 45W ±5% | 90W ±5% | 45W ±5% | 90W ±5% |
| Guide laser, pointer | Red semiconductor laser; λ = 655nm; class 2 laser: Maximum output 1mW or less | | | |
| Scanner | Digital galvano scanner | | | |
| Setting range (X, Y) | 200 × 200mm | | 400 × 400mm | |
| Working distance (base position ± preset range) | 315 ±15mm | | 685 ±15mm | |
| Scan speed | Maximum 3000mm/s | | | |
| Supplied cable | › Head power supply cable: 5.5 ±0.1m, ø11mm <br> › Head control cable: 5.5 ±0.1m, ø12mm | | | |
| Fiber cable | 5 ±0.2m, ø7mm, minimum bend radius: 50mm | | | |
| Net weight — Head | ≈ 12kg | | | |
| Net weight — Controller | ≈ 28kg | ≈ 35kg | ≈ 28kg | ≈ 35kg |
| Degree of protection | IP54 (IEC) (only for head section) | | | |

## Dimensions

### VL-W1 laser head



### VL-W1500-N / VL-W1506-N controller



### VL-W1A00-N / VL-W1A06-N controller



* All measurements in mm

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