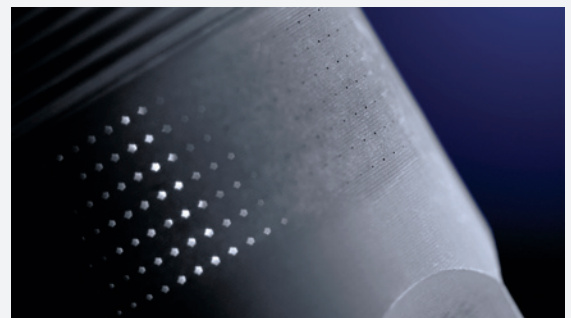
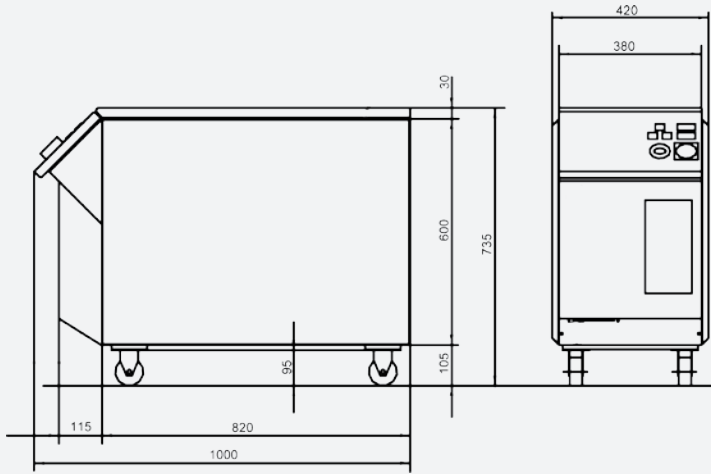


## KLS 246

Pulsed Nd: YAG Laser  
10 to 220W output

- Unique for fine cutting, precision drilling and scribing
- Outstanding beam quality at high peak power
- For conventional beam and/or fiber beam delivery
- Optimum flexibility for a full line of processing and production demands





# KLS 246

| Laser Sources                              | -040 FC                         | -046     | -102     | -302     | -306     | -502     |
|--|---------------------------------|----------|----------|----------|----------|----------|
| Laser type                                 | pulsed Nd:YAG solid state laser |          |          |          |          |          |
| Wavelength [nm]                            | 1064                            | 1064     | 1064     | 1064     | 1064     | 1064     |
| Beam diameter [mm]                         | 2.5                             | 4.0      | 6.0      | 6.0      | 6.0      | 6.0      |
| Pulse length [ms]                          | 0.012–0.3                       | 0.02–20  | 0.02–20  | 0.1–20   | 0.1–20   | 0.1–20   |
| Pulse repetition rate [Hz]                 | 0.1–5000                        | 0.1–1000 | 0.1–1000 | 0.1–1000 | 0.1–1000 | 0.1–1000 |
| Pulse energy max. <sup>1)</sup> [J]        | 0.002–0.18                      | 15       | 30       | 50       | 50       | 50       |
| Peak power at 3 ms max. <sup>1)</sup> [kW] | 0.6 – 0.3                       | 4        | 6        | 3        | 5.5      | 6        |
| Average power max. <sup>1)</sup> [W]       | 15                              | 100      | 150      | 220      | 220      | 250      |

<sup>1)</sup> Measured without beam delivery with new flash lamp

### Line Power

|                          |   |
|--------------------------|---|
| Configuration            | 3-phase + ground ± 10%                    |
| Multitap transformer for | 3x200 V, 208 V, 230 V, 380 V, 400V, 480 V |
| Power consumption        | 9 kVA                                     |
| Line frequency           | 50 Hz or 60 Hz                            |

### Cooling water connection

|                               |                                   |
|-------------------------------|-----------------------------------|
| Water inlet max.              | 20 °C / 8 bar                     |
| Pressure drop to outlet, min. | 4 bar                             |
| Cooling power max.            | 8.5 kW, depending on laser output |

### Weight

|            |        |
|------------|--------|
| Laser unit | 200 kg |
|------------|--------|

### Ambient conditions

|                          |            |
|--------------------------|------------|
| Ambient temperature max. | 10 – 35 °C |
| Relative humidity max.   | 80 %       |

### Emissions

|                   |        |
|-------------------|--------|
| Noise at 1m, idle | 60 dBA |
|-------------------|--------|

### Compliance with standards

CE compliant, FDA compliant

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Specifications subject to change without notice