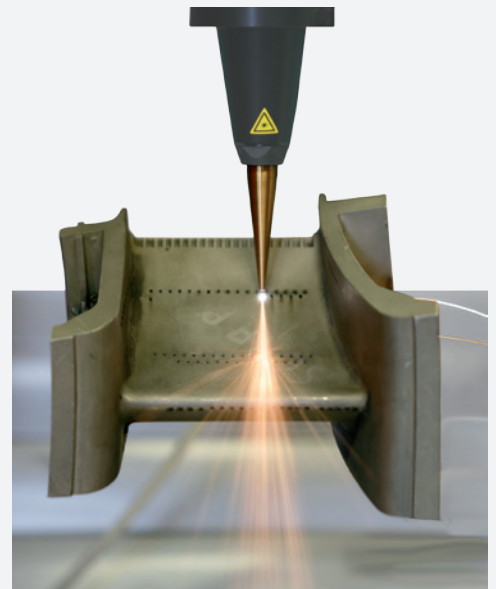


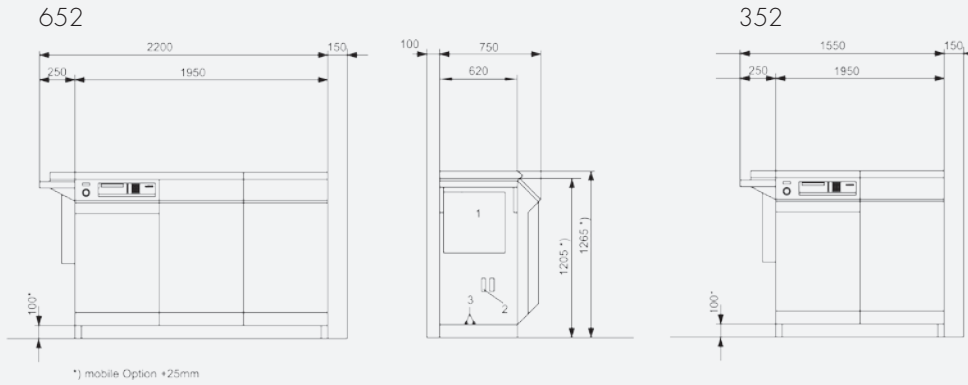
FLS A

Pulsed Nd: YAG Laser
150 to 500W output



- Engineered for high aspect drilling and cutting
- High energy, high peak power
- Modular design for high flexibility
- Control unit with advanced front end user interface
- Optimized high brightness version with improved beam quality





FLS A

| Laser sources | 352A | 352A-HB | 652A |
|--|---------------------------------|-----------------------------|-----------------------------|
| Laser type | pulsed Nd:YAG solid state laser | | |
| Wavelength | 1064 nm | 1064 nm | 1064 nm |
| Beam quality M^2 | 17 – 20 | 8 – 10 | ≥ 25 |
| Pulse length | 0.1 – 3 ms | 0.1 – 3 ms | 0.1 – 20 ms |
| Pulse repetition rate | 0.1 – 500 Hz | 0.1 – 500 Hz | 0.1 – 500 Hz |
| Pulse energy max. | 50 J | 40 J | 120 J |
| Peak power at 1 ms max. ¹⁾ | 20 kW | 16 kW | 50 kW |
| Average power max. ¹⁾ | 150 W | 200 W | 500 W |
| ¹⁾ Measured without beam delivery with new flash lamp | | | |
| Line Power | | | |
| Configuration | 3-phase + ground $\pm 10\%$ | 3-phase + ground $\pm 10\%$ | 3-phase + ground $\pm 10\%$ |
| Multitap transformer for | 360 V, 400 V, 480 V | 360 V, 400 V, 480 V | 360 V, 400 V, 480 V |
| Power consumption | 14 kVA | 14 kVA | 25 kVA |
| Line frequency | 50 Hz or 60 Hz | 50 Hz or 60 Hz | 50 Hz or 60 Hz |
| Cooling | | | |
| Water inlet max. | 20°C / 8 bar | 20°C / 8 bar | 20°C / 8 bar |
| Pressure drop to outlet, min. | 4 bar | 4 bar | 4 bar |
| Cooling power max. | 10 kW | 10 kW | 19 kW |
| Weight | | | |
| Laser unit | 600 kg | 600 kg | 800 kg |
| Ambient Conditions | | | |
| Ambient temperature max. | 10–35 °C | 10–35 °C | 10–35 °C |
| Relative humidity max. | 80 % | 80 % | 80 % |
| Emissions | | | |
| Heat dissipation approx. | 0.4 kW + laser beam power | 0.4 kW + laser beam power | 0.4 kW + laser beam power |
| Noise at 1 m, idle | 65 dBA | 65 dBA | 65 dBA |
| Compliance with standards | | | |
| CE compliant, FDA compliant | | | |

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Specifications subject to change without notice