



Rigel u180

180W High Power, Diode Pumped, Short Pulse, UV Laser

A Q-switched, intra-cavity frequency tripled laser, delivering high average powers up to 180 W in an unpolarised multi-mode beam at a wavelength of 355 nm. With a well proven rugged head design, state of the art control system architecture, simple synchronisation with OEM equipment and process lines, this platform is ideally suited to high volume industrial applications.

Rigel u90

Rigel u180



● Features

- Pulse Energy Up To 18 mJ
- $M^2 < 30$
- Excellent Power Stability
- GUI Controlled
- Dual Polarized Outputs
- Single Unpolarized Output

● Applications

- Material Processing
- Photovoltaic Processing
- Thin Film Removal
- Laser Lift Off (LLO)
- Annealing
- Surface Cleaning

UCS; “**Universal Control System**” is shown above. It includes a System Controller, Temperature Controller, RF Driver and Heat Exchanger.



Typical Laser Performance

Pulse Repetition Freq. (kHz)	10
Average Power (W)	180
Pulse Energy (mJ)	18
Pulse Duration (ns)	75
M ²	<30
Power Stability (% , 1σ)	<2.5

Rigel u90

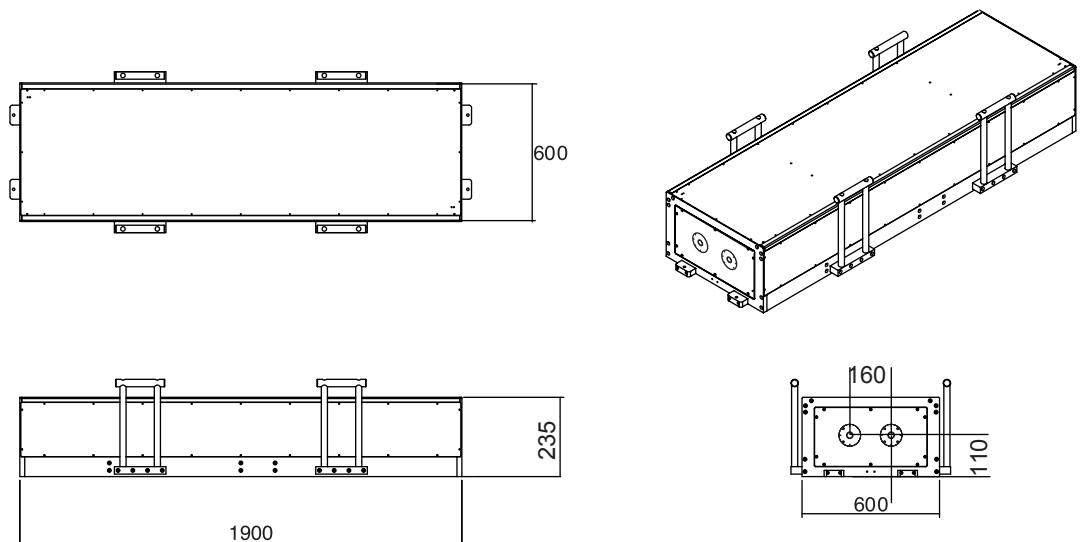
Rigel u180

Facility Requirements

Supply Voltage	3-phase N+E, 220 or 400 VAC (±10%)
Supply Frequency	50 or 60 Hz
Nominal Power Consumption	18 kVA
Cooling Water	40 litres/min at 11 - 17°C
Gas Purge	N2 or Air (Grade N5.0, <1 ppm THC)
Laser Dimensions	1900 x 600 x 235 mm
Control Rack Dimensions	1195 x 600 x 970 mm (h w d)
Environmental Conditions	Temp 15 - 32°C and RH <60% (90% max, non condensing)

Specifications subject to change without notice.

Dimensions



LASER RADIATION
AVOID EYE OR SKIN EXPOSURE TO
DIRECT OR SCATTERED RADIATION
CLASS 4 LASER PRODUCT

ANDRITZ Powerlase may make improvements and/or changes in the products described herein at any time without notice.