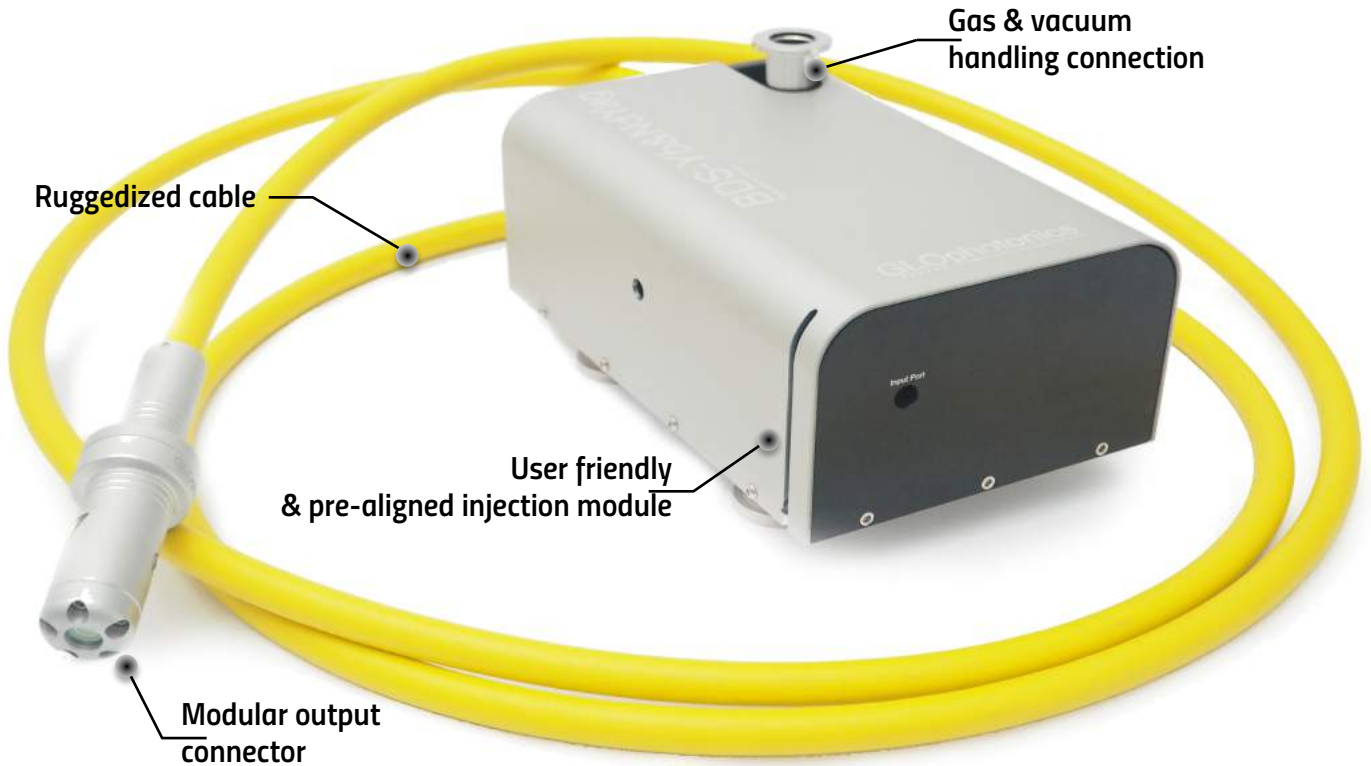


# BEAM DELIVERY SYSTEM

FOR HIGH POWER ULTRA-FAST LASERS AT MOST COMMON WAVELENGTHS



- Available in wavelengths 532nm, 800nm, 1064nm, 1.5 $\mu$ m, 2 $\mu$ m
  - Ultra-short pulse lasers – High peak power
    - Low loss – Low distortion
    - Nearly single mode

## Applications

Micromachining



Surgery



Biomedical



| Optical Properties                                       | Green               | Ti:Saph     | Yb&NdYag      | Er     | 2 $\mu$ m |
|----------------------------------------------------------|---------------------|-------------|---------------|--------|-----------|
| Working wavelength                                       | 515nm/532nm         | 780nm/800nm | 1030nm/1064nm | 1550nm | 2 $\mu$ m |
| Transmission band**<br>**Attenuation lower than 100dB/km | 200nm               | 100nm       | 300nm         | 400nm  | >350nm    |
| Transmission efficiency                                  | >85%                |             |               |        |           |
| Dispersion @ Working wavelength                          | 1ps/nm.km $\pm$ 0.5 |             |               |        |           |
| Input beam requirement                                   | 3mm $\pm$ 0.2       |             |               |        |           |
| Output beam quality                                      | $M^2 < 1.3$         |             |               |        |           |
| Max input power                                          | 50W                 |             |               |        |           |
| Max energy for sub-pico pulses                           | <500 $\mu$ J*       |             |               |        |           |
| Bend loss @ 20cm bend radius                             | <1dB                |             |               |        |           |

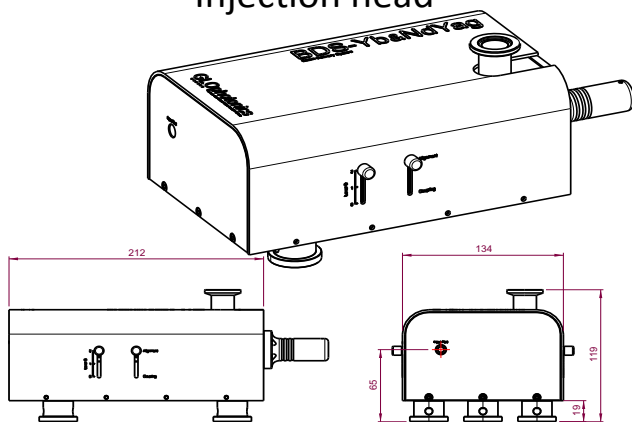
| Physical Properties   | Green, Ti:Saph, Yb&NdYag, Er, 2 $\mu$ m                |
|-----------------------|--------------------------------------------------------|
| Fiber length**        | 2m, 3m, 5m                                             |
| Gas/Vacuum connection | KF16                                                   |
| Fiber protection**    | 13mm armored PU tube                                   |
| Min. bend radius      | 20cm                                                   |
| Output**              | Sealed round cell compatible with optional collimation |

\*Higher energy avail. upon request

All specifications may be changed without notice

\*\*Others upon request

Injection head



Output connector

