



## High Fidelity Lithography to fabricate your DFB lasers

Any pitch with picometer precision

Your challenge is our mission.

**RAITH**  
NANOFABRICATION

# 5 reasons why a Raith Electron Beam Lithography Machine is the best solution for easy and fast DFB laser fabrication:

**Accuracy** Produce grating periods with picometer accuracy

**Yield** Achieve repeatable results

**Flexibility** Bring new designs or different pitches to production immediately

**Speed** Expose more wafers

**Reliability** Be sure of service and support from the market leader for Gaussian Electron Beam Systems



## EBPG

High volume manufacturing / R&D

- Fully automated—no operator action necessary
- Up to 40 2" or 3" wafers loadable at once
- Ultra-fast writing of any laser grating design (>20 000 devices/hour)
- Superb accuracy (pitch, phase shift, line edge roughness, duty cycle—all on wafer level)



## VOYAGER

Speed up development & ramp up

- Unique stitch-free writing modes for laser gratings (DFB, DBR,...) up to several millimeters in length
- Inspection and metrology function—write and measure with a single tool
- Low cost of ownership