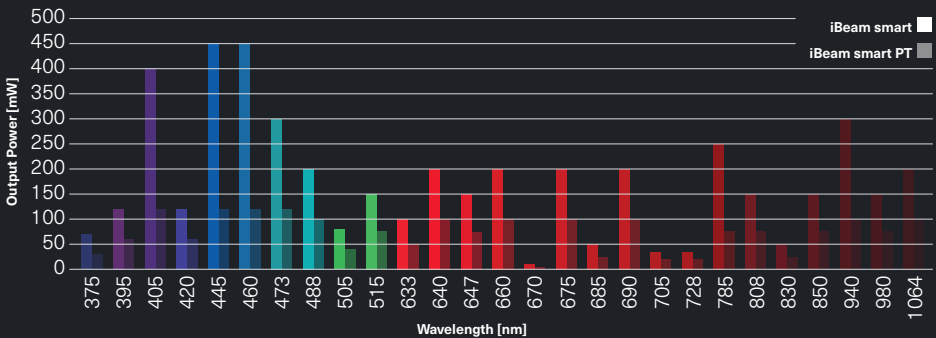# smart.

Flexible worry-free industrial design

375 - 1064 nm

High-Performance
Single Mode Diode Laser

The electronic features FINE and SKILL permit adjusting the laser performance for the specific application – be it noise reduction, stability against optical feedback, speckle reduction, or spectral broadening.
NEW: More wavelengths and significant power upgrades available.

learn more...

iBeam smart
Options & Accessories

Pigtailed iBeam smart (PT)
TOPTICA's also provides the pigtailed iBeam smart PT. Long-term power stability and reliability is achieved by the proprietary fiber coupling technology COOL^{DC} (Constant Optical Output Level – Dura-Calibrated) and unique long-life fibers.

Wavelength-Stabilized iBeam smart (WS)
Using wavelength stabilized laser diodes within the iBeam smart WS, single-frequency operation is added to the series. Linewidths in the 10 MHz range and coherence lengths of several meters are achieved.

	iBeam smart	PT	WS
iBeam smart Pulse Option This option enables the user to apply asynchronous, digital modulation signals to the iBeam smart. With optical rise and fall times in the 1 ns range, bandwidths up to 250 MHz can be achieved.	✓	✓	(✓)
Wavelength Selection TOPTICA offers wavelength selection better than ±1 nm inside the available standard wavelength range.	✓	✓	(✓)
Clean-Up Filter Laser clean-up filters provide high transmission (> 90 %) of designated wavelengths and eliminate unwanted spontaneous emission when spectral purity is critical.	✓		
SmartDock Highly efficient (typical > 75 %) fiber-coupling is possible with this add-on fiber-coupler for the iBeam smart.	✓		✓
FiberOut This fiber output collimator with adjustable collimation guarantees excellent beam quality after the fiber.	✓	✓	✓
Optical Isolator The iBeam smart can be equipped with an external optical isolator. This option is strongly recommended for the iBeam smart WS in order to guarantee stable single-frequency operation.	✓		✓
External Control Box The CDRH compliant external controller helps scientific customers to easily integrate the laser into their setup. It provides the user with a key switch and access to all important control lines.	✓	✓	✓
Power supply Input: 100-240VAC, Output: 12VDC/5A	✓	✓	✓
Breadboard adapter Allows mounting of iBeam smart onto an optical breadboard. Beam height will be 40 mm with this adapter.	✓	✓	✓