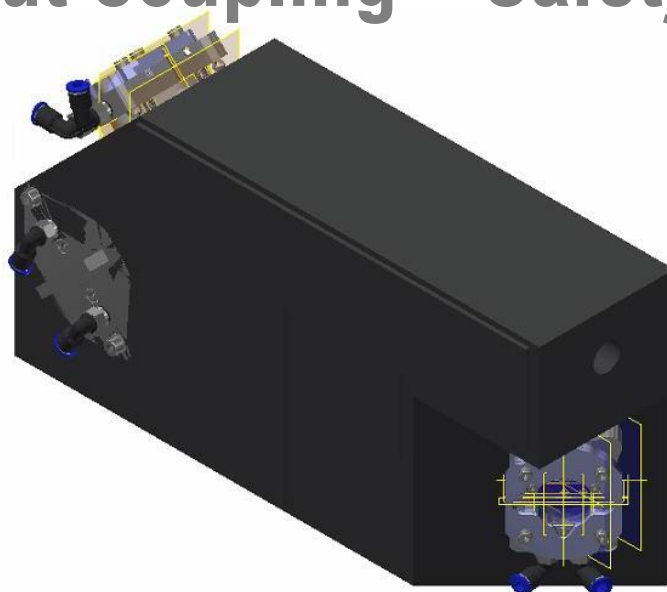


In-/Output Coupling + Safety Module



- ▶ completely **enclosed beam**, allowing controlled air-flow along beam path
- ▶ **mini-clean room environment**: overpressure prevents dust from entering
- ▶ all optics are accessible from „outside“ and can be aligned even during operation
- ▶ **rotator, shutter for safety, slow modulation with automatic waveplate**
- ▶ no cable and tubes in beam area
- ▶ interface for connecting additional modules and/or closing window
- ▶ water cooled, **shaking test during FAT**
- ▶ sensors: damage detection of optics + NTC + SHT21 + power measurement + shutter + air + water flow rate
- ▶ basic **self status check**, interface via **VARAN/CAN BUS**



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