Advances in Fiber Laser Beam Delivery

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Abstract - IPG has developed a complete range of high power beam delivery components such as couplers, beam switches, collimators, cutting and welding heads to complement its revolutionary high power fiber lasers. Along with our success of super high power 100 kW Beam Coupler and mid power half inch couplers and beam switches, this presentation will showcase our advancements in high power laser process heads such as the 30kW welding head, developments on the 50kW welding head and advantages of welding with IPG’s beam wobble module. This presentation will also highlight advancements in IPG’s cutting heads such as cutting at 10kW, spot adjustment on the fly with our zoom collimator and fine feature cutting with our micro-cutting heads. This places IPG in the rare position of being in full control of every step needed to achieve our mission of delivering innovative, reliable, high quality and high performance fiber lasers at a cost-effective price.