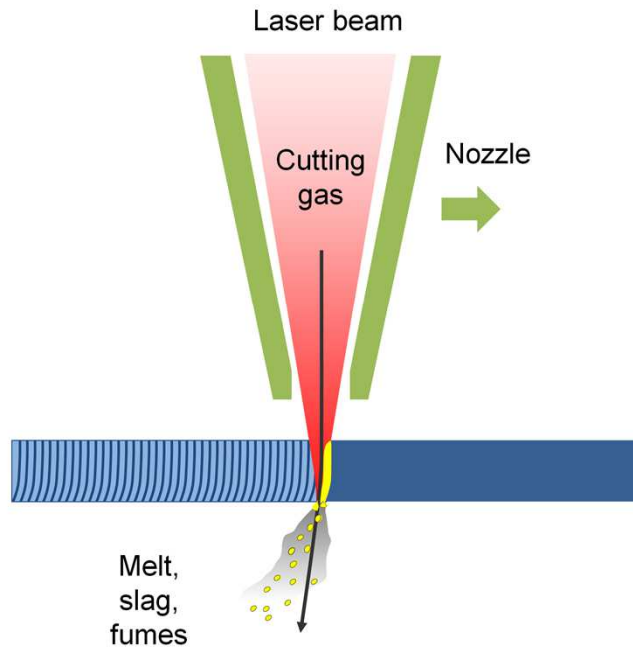


Procedural Principle Laser Beam Cutting



For laser beam cutting the laser beam heats up the material to melting or even evaporizing. A gas jet coaxial to the laser beam impacting on the forming kerf blows out the reaction products. Dependent on the use of gas and its chemical composition the process variants sublimation cutting, oxygen cutting (with oxygen) or high pressure cutting (with nitrogen) are available. The material thickness suitable for laser beam cutting range from some 0.1 millimeter thick foils up to 30 millimeter.