



## Hard Optic Laser Beam Delivery Worksheet

Please provide as much information as possible so we may make the best possible recommendation for your application. For additional information, contact a Haas Laser Technologies Engineer (973) 598-1150

Laser manufacturer	
Laser model number	
Laser power	
Beam divergence	
M2	
BBP	
Beam delivery layout? How many beam benders, moving axis, etc. Please provide a rough sketch if possible. Include minimum and maximum beam path length.	<p>Attach rough drawing or explanation</p> <div style="border-bottom: 1px solid black; height: 20px;"></div>
Desired focused spot size	
Desired focal length	
Multiple focus lens configuration	
CCD vision camera needed	
Beam splitting/switching/sharing required	
Crash protection or detection required	
Laser application (Cutting, welding, drilling, etc.)	
Capacitive height sensing needed? (cutting only)	
Assist gas pressure required, Type.	
Laser duty cycle	
Z-Axis required	
Beam rotation or tepanning required	
Beam polarization required	
Back reflection protection	
Beam expansion	
Spatial filtering required	
Beam tubes required. Standard/telescopic	
Maximum size constraints	
Maximum weight constraints	
Laser head mounting: (Robotic arm, gantry, etc.)	
Environmental conditions	
Additional tooling or mounting requirements.	