

LENSES FOR CO₂ LASER CUTTING SYSTEMS

**THERMACUT OFFERS HIGH
QUALITY LENSES, PRODUCED
TO OEM SPECIFICATIONS
AND COMPATIBLE WITH
ALL MAJOR OEM SYSTEMS.**



COMPATIBILITY FOR YOUR LASER CUTTING SYSTEM

Thermacut lenses are compatible with all major laser systems in the market. Our optics are manufactured by automated CNC technology and designed for highest durability and accuracy, assuring complete uniformity, repeatability and consistency. These state-of-the-art manufacturing standards and technology result in the highest precision and best quality products.

BENEFITS OF LOW ABSORPTION LENSES

As laser energy passes through a focusing lens, a percentage of that energy is absorbed into the lens substrate as heat. For a standard (AR coated) lens, this absorption value is <0.20%. The difference between standard and Thermacut Ultra Low lens is the coating. Low absorption coatings absorb up to 50% less energy than a standard AR coating. Lower absorption lenses will be less affected by thermal lensing and provides better focus stability. Reduced absorption rate also slows the rate of thermal breakdown and increases the life of the lens (1.5x - 2.5x).

| THERMACUT PART NUMBER | MATERIAL | TYPE | COATING | DIAMETER MM | DIAMETER INCH | EDGE THICKNESS ET MM | EDGE THICKNESS ET INCH | FOCUS LENGTH FL |
|-----------------------|----------|--------------|-----------|-------------|---------------|----------------------|------------------------|-----------------|
| HG10.166/H | ZnSe | Meniscus | Standard | 38.1mm | 1.5" | 7.4 | 0.291" | 3.75" |
| HG10.167/H | ZnSe | Meniscus | Standard | 38.1mm | 1.5" | 7.4 | 0.291" | 5" |
| HG10.168/H | ZnSe | Meniscus | Standard | 38.1mm | 1.5" | 7.4 | 0.291" | 7.5" |
| HG10.169/H | ZnSe | Meniscus | Standard | 38.1mm | 1.5" | 7.4 | 0.291" | 9" |
| HG10.179/H | ZnSe | Meniscus | Standard | 38.1mm | 1.5" | 7.4 | 0.291" | 10" |
| HG10.167/HU | ZnSe | Meniscus | Ultra Low | 38.1mm | 1.5" | 7.4 | 0.291" | 5" |
| HG10.168/HU | ZnSe | Meniscus | Ultra Low | 38.1mm | 1.5" | 7.4 | 0.291" | 7.5" |
| HG10.169/HU | ZnSe | Meniscus | Ultra Low | 38.1mm | 1.5" | 7.4 | 0.291" | 9" |
| HG10.179/HU | ZnSe | Meniscus | Ultra Low | 38.1mm | 1.5" | 7.4 | 0.291" | 10" |
| HG10.730/H | ZnSe | Meniscus | Standard | 38.1mm | 1.5" | 6 | 0.236" | 3.75" |
| HG10.731/H | ZnSe | Meniscus | Standard | 38.1mm | 1.5" | 6 | 0.236" | 5" |
| HG10.732/H | ZnSe | Meniscus | Standard | 38.1mm | 1.5" | 6 | 0.236" | 7.5" |
| HG10.729/H | ZnSe | Meniscus | Standard | 38.1mm | 1.5" | 9 | 0.354" | 3.75" |
| HG10.733/H | ZnSe | Meniscus | Standard | 38.1mm | 1.5" | 9 | 0.354" | 5" |
| HG10.734/H | ZnSe | Meniscus | Standard | 38.1mm | 1.5" | 9 | 0.354" | 7.5" |
| HG10.733/HU | ZnSe | Meniscus | Ultra Low | 38.1mm | 1.5" | 9 | 0.354" | 5" |
| HG10.734/HU | ZnSe | Meniscus | Ultra Low | 38.1mm | 1.5" | 9 | 0.354" | 7.5" |
| HG10.620/H | ZnSe | Meniscus | Standard | 50.8mm | 2.0" | 9.7 | 0.380" | 5" |
| HG10.621/H | ZnSe | Meniscus | Standard | 50.8mm | 2.0" | 9.7 | 0.380" | 7.5" |
| HG10.622/H | ZnSe | Meniscus | Standard | 50.8mm | 2.0" | 9.7 | 0.380" | 10" |
| HG10.620/HU | ZnSe | Meniscus | Ultra Low | 50.8mm | 2.0" | 9.7 | 0.380" | 5" |
| HG10.621/HU | ZnSe | Meniscus | Ultra Low | 50.8mm | 2.0" | 9.7 | 0.380" | 7.5" |
| HG10.622/HU | ZnSe | Meniscus | Ultra Low | 50.8mm | 2.0" | 9.7 | 0.380" | 10" |
| HG15.002/H | ZnSe | Plano Convex | Standard | 50.8mm | 2.0" | 9.7 | 0.380" | 5" |
| HG15.003/H | ZnSe | Plano Convex | Standard | 50.8mm | 2.0" | 9.7 | 0.380" | 7.5" |
| HG15.002/HU | ZnSe | Plano Convex | Ultra Low | 50.8mm | 2.0" | 9.7 | 0.380" | 5" |
| HG15.003/HU | ZnSe | Plano Convex | Ultra Low | 50.8mm | 2.0" | 9.7 | 0.380" | 7.5" |
| HG15.001/H | ZnSe | Meniscus | Standard | 27.94mm | 1.1" | 4.064 | 0.165" | 5" |
| HG15.015/H | ZnSe | Plano Convex | Standard | 38.1mm | 1.5" | 7.6 | 0.300" | 5" |
| HG15.015/HU | ZnSe | Plano Convex | Ultra Low | 38.1mm | 1.5" | 7.6 | 0.300" | 5" |
| HG15.016/H | ZnSe | Plano Convex | Standard | 38.1mm | 1.5" | 7.6 | 0.300" | 7.5" |
| HG15.024/H | ZnSe | Plano Convex | Standard | 38.1mm | 1.5" | 7.87 | 0.310" | 5" |
| HG15.028/H | ZnSe | Plano Convex | Standard | 50.8mm | 2.0" | 7.87 | 0.310" | 7.5" |
| HG15.029/H | ZnSe | Plano Convex | Standard | 50.8mm | 2.0" | 7.87 | 0.310" | 5" |
| HG15.028/HU | ZnSe | Plano Convex | Ultra Low | 50.8mm | 2.0" | 7.87 | 0.310" | 7.5" |
| HG15.029/HU | ZnSe | Plano Convex | Ultra Low | 50.8mm | 2.0" | 7.87 | 0.310" | 5" |
| HG10.118/H | ZnSe | Meniscus | Standard | 50mm | 1.97" | 8.9 | 0.350" | 170mm |
| HG10.120/H | ZnSe | Meniscus | Standard | 50mm | 1.97" | 8.9 | 0.350" | 175mm |
| HG10.121/H | ZnSe | Meniscus | Standard | 50mm | 1.97" | 8.9 | 0.350" | 250mm |
| HG10.124/H | ZnSe | Meniscus | Standard | 40mm | 1.57" | 7.5 | 0.295" | 155mm |
| HG10.125/H | ZnSe | Meniscus | Standard | 40mm | 1.57" | 7.5 | 0.295" | 130mm |
| HG10.126/H | ZnSe | Meniscus | Standard | 40mm | 1.57" | 7.5 | 0.295" | 250mm |

Other optics on request.

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