

THERMACUT PROTECTION WINDOWS FOR FIBER CUTTING SYSTEMS



The contamination of the focusing lens is one of the prime reasons for poor laser performance and potential downtime of laser operations. No nozzle system is perfect and some debris, fume or backspatter can occasionally reach the lens. This situation occurs for many high power laser systems, including fiber lasers. Collimating lenses as well as focusing lenses present in fiber laser cutting head are very sensitive to any type of contamination. For this reason, the majority of fiber laser systems employ protective windows to protect the focusing lens against contamination. The protective window is positioned in front of the focusing lens, and serves as a barrier between the lens and the metal sheet. Protective windows are the most consumed optical element in fiber laser systems. This optics are also known as cover glass, debris window, debris shield, and cover slide and are available in various shapes and sizes. Thermacut offer a wide range of protection windows for all major OEM's.

THERMACUT PART NUMBER	DIAMETER MM	EDGE THICKNESS ET MM	DESCRIPTION
HG17.519	36.00	5.1	Protection window D36.00mm × ET = 5.10mm
HG17.511	50.00	2.0	Protection window D50.00mm × ET = 2.0mm
HG17.520	38.00	2.0	Protection window D38.00mm × ET = 2.0mm
HG17.521	33.00	1.5	Protection window D33.00mm × ET = 1.50mm
HG17.522	19.00	1.0	Protection window D19.00mm × ET = 1.0mm
HG17.523	19.00	6.5	Protection window D19.00mm × ET = 6.5mm
HG17.517	36.00	5.0	Protection window D36.00mm × ET = 5.0mm
HG17.514	25.40	4.0	Protection window D25.40mm × ET = 4.0mm
HG17.524	37.00	7.0	Protection window D37.00mm × ET = 7.0mm
HG17.525	21.50	2.0	Protection window D21.50mm × ET = 2.0mm
HG17.526	30.00	5.0	Protection window D30.00mm × ET = 5.0mm
HG17.527	30.00	1.5	Protection window D30.00mm × ET = 1.50mm
HG17.512	22.35	4.0	Protection window D22.35mm × ET = 4.0mm
HG17.528	30.00	4.0	Protection window D30.00mm × ET = 4.0mm
HG17.513	34.00	5.0	Protection window D34.00mm × ET = 5.0mm
HG17.515	55.00	1.5	Protection window D55.00mm × ET = 1.50mm

Other laser parts on request.

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