

# Company Background



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Houston-based Laser Cladding Services Ltd. (LCS), and its parent company Gremada Industries, have provided offshore and oil patch companies with high quality laser cladding for six years. They were the first to offer this dynamic and economical solution for enhancing critical production equipment, one which evolved from the high wear demands of open pit and surface mining conditions.

Built on a reputation for implementing innovative engineering techniques to solve difficult component wear and corrosion problems, LCS enables operators to extract the greatest value from expensive metal parts. First offering laser clad tungsten carbide as an effective alternative to hardfacing by welding, thermal spray, or plating, their range of materials has grown. The appeal of a reconditioning process with a low heat affected zone AND an integral bond to various substrates rang true for the oil drilling industry. LCS has been a trusted partner ever since.

LCS's proven solutions continue to deliver integrity in service to operators on and offshore.

## A Brief History

During the 1990's, Gremada Industries pioneered the mining industry's shift from conventional remanufacturing, reconditioning, and enhancement methods to salvage critical wear components and corroded metal parts. Unlike welding, thermal spraying, or plating, laser cladding provides a strong metallurgical bond with minimal dilution of the base material, exceptional thickness control, and a small heat effected zone. By the late 90's, Gremada began offering their proven laser coating technology solutions to the oil and gas industry. With demand so great at the end of 2001, Gremada established Laser Cladding Services Ltd. to service oil and offshore markets and extend OEM product lifecycles. Offices were headquartered in the energy capital of the world, Houston Texas, to meet the changing needs of the industry quickly.

LSC first offered numerous laser cladding and hardfacing solutions using tungsten carbide powder, drawing upon combined engineering and metallurgical expertise for superior results. In December 2004, LCS became ISO 9001:2000 quality certified, a mark of their continued excellence. As their customer's needs have evolved, so have LCS's services. Continued research, testing, and development currently allow LCS to successfully apply many different types of metal and ceramic powders to different substrates and parts with integral results. A partnership with the comprehensive metallurgical testing program at North Dakota State University has been essential for proving the long-term durability of solutions before being offered to meet the most stringent customer demands.

In May 2005, LCS partnered with NASA to reduce component failure rate on the Stennis Space Center in Mississippi. This project took LCS to another level of service, from salvaging metal parts to using their technology to prevent critical frontier systems breakdown. Using a thorough understanding of processes and materials, LCS provided creative solutions that increased product lifecycle and eliminated multi-million dollar catastrophes.

In 2007, LCS continues to work with more OEMs on confidential research projects to meet diverse needs onshore, offshore and into the unknown.

## Services First

At LCS, we are committed to providing the best laser cladding solutions. Whether you need quick service for critical parts, creative applications to solve difficult wear issues, or ongoing programs to maintain essential components, we are here to keep you moving.

*High Quality Cladding First*