



Restoration with Laser

Gently removes contaminants with low operating costs, using no solvents, chemicals or water and no damage to the substrate.

Introduction to Laser Cleaning

A powerful focused laser beam strikes the surface for some thousand billionths of a second. The surface absorbs most of the power. The light energy of the laser beam is directly transformed into thermal energy and removes (vaporizes) the contamination. The basic material is very gently cleaned - without damage - by the extremely short and locally limited effect of the light.



Foreground detail after start of Laser Cleaning

Restoration Laser Cleaning

Laser restoration technology is a superior alternative to conventional cleaning techniques due to the laser systems ability to clean without damage to the structure or surrounding equipment, the thorough removal of contaminants and the very low operating cost.



Rusted Metal with Laser Treatment



Preserving treasures

Also in the field of restoration, the gentle laser beam cleaning technology meets the high requirement of the restorators without neglecting economy aspects.

The manual application of the Clean laser beam cleaning systems is an efficient tool for the restorator. With laser technology, dirt and weathering layers can be removed from restorable objects without damaging the natural patina. This is an important argument for the use of laser technology for cleaning art-historical treasures.

Laser Cleaning Advantages

Because of their high flexibility and the variable laser beam parameters, the Clean laser systems are suitable for different application areas, such as de-lacquering and removal of layers on woods with fine structures, removal of scumbles, wax coatings or thin coats of paint.

With the Clean laser beam cleaning technology, century old layers can be removed perfectly from valuable iron garnishments and cast-iron decorations.

Laser Cleaning Savings

Operating costs are reduced, through speed of cleaning, no effluent generation, low running costs and life span extension.



Sandstone Wall During Cleaning



Historic Building Laser Cleaned in Background

Laser Cleaning Equipment

Mains or battery powered portable and static lasers.

