C.S.T. was founded in Florence, Italy, in 2002, was initially composed of just four people and worked as a service engineering provider for an Italian O.E.M., mainly for reciprocating compressors.

The first turn-around for the company happened in 2004 when we started the process to transition into being an independent service engineering provider.

One of our first endeavors was to set up a remote monitoring and diagnostic service for reciprocating compressors. Then, in 2005 we started with our design of machine components, mainly still for reciprocating compressors. A few years later the company designed its first compression package for underground storage of natural gas.

While at first we used existing simulation software for component design, around 2010 we started to develop our own proprietary software for performance simulation, followed by software for pressure pulsation, vibration, and rotor-dynamic analyses (including torsional, lateral, modal and stability analysis). Today, we employ also Finite Element Analysis (FEA), Computational Fluid Dynamics (CFD), Fluid-Structure Interaction (FSI), failure mode analysis, acoustic studies, bearing stress analysis, and virtual prototyping.

Another milestone was set in 2011, when C.S.T. started its Consultative Services and Troubleshooting for turbomachinery. These include centrifugal compressors, steam and gas turbines and centrifugal pumps, which soon brought us also to the design of machine components for centrifugal compressors.

The latest step was to add to the company’s competences also the design and execution of complete compressor.
system projects. This service is comprehensive of engineering, with piping acoustical and structural studies, instrumentation and control, up to material requisition, procurement specification, bill of material (BoM), balance of plant (BoP), testing and supervision, and total project management.

Our company is presently made by four main divisions: Machine design, System engineering and construction, Service and Remote Diagnostic and Research and Development. Thanks also to the integration with highly qualified partners, technical universities, high-performance computing centers, and international regulatory bodies, nowadays C.S.T. is capable of offering full-scope customer support from the conceptual design to the final project execution, and on to troubleshooting, remote monitoring and diagnostic, revamping, conversions, upgrades, asset lifecycle management, site service and field supervision.

In the span of 15 years C.S.T. has transformed from a local maintenance engineering provider, into an international player for critical machine applications in the Oil & Gas and other industrial sectors. The Company staff is nowadays of about 50 people and while at the beginning the company business was almost 90% in Italy, in the next year C.S.T. expects to reach 50% of sales from foreign markets, offering a quick mobilization capability for any project all around the world.

Our clients come today from a wide range of industries including Machinery and equipment OEMs, Equipment Packagers, EPC Contractors, End Users, Service Companies. We think that the main reason of the success of CST stays in the capability to work on the complete machinery cycle, which allows the continuous transfer of the field experience to the new design and vice versa the possibility to face the field problems with the design competence.