Advanced Industrial Services for the Israeli Industry **Chemical Cleaning**





Company Profile

Laor Engineering was founded in 1979 and has established itself as one of the leading companies in the field of maintenance of industrial plants and factories in Israel.



Laor Engineering provides solutions in a varied range of industrial areas such as:

- **Chemical and Hydrodynamic cleaning** with High water pressure for systems, structures, heat exchangers and steam boilers.
- Polymeric protective coatings against corrosion, chemical attack and wear, extending the life-time of the equipment
- seals, couplings, water high pressure pumps up to 2800 bar, pumping equipment, coating materials, lubricants and synthetic oil products as well as technologies for dust suppression, Coating for heat exchanger tube sheets and various other technologies if required, with the supervision and assistance of International experts.



Our Team

Laor Engineering has experienced team of field engineers and technicians with equipment on hand to support its scope of services. The company is under the management of Ori Or, Mech. Eng. (Technion), Marine Chief Engineer, Steam Boilers & Pressure Vessels Supervisor.

Knowledge, Innovation and Experience

Laor Engineering offers a successful combination of technological expertise, experience in the process engineering field and project management capabilities. We offer our customers full support from planning stage through implementation and after sale services

High Standard Performance

The quality management system ISO 9001:2008 of **Laor Engineering** was created and is audited by the Standards Institute of Israel

Safety

Our clients and workers safety is highly important.

For that, we implement a strict safety policy, which includes safety trainings and high financial insurance for all types of jobs.



Representation of leading manufacturers

Laor Engineering is proud to serve as the Israeli representative of the leading companies in the world:







Industrial services



Protective coating materials



Water high pressure pumps



Heat exchangers cleaning systems



Automated equipment for industrial cleaning



Elastic Couplings



Synthetic oils

Our Clients

























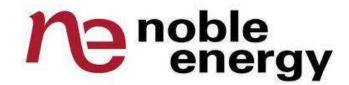




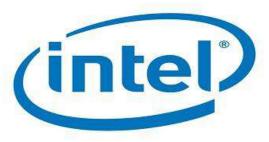


Our Clients























Chemical Cleaning





Over 38 years of **chemical cleaning**experience enables **Laor Engineering**to offer best-in-class technology
for pre-operational and operational
operations in the petrochemical, refining,
utility and process industries

Chemical Cleaning

Chemical cleaning covers a wide range of services from new construction to ongoing maintenance activities

Laor Engineering provides the two major categories of chemical cleaning:

- 1. Pre-operational chemical cleaning
- 2. Post-operational /maintenance chemical cleaning

Laor has the most advanced equipment, including: circulation tanks, pumps, boilers and heat exchangers for all applications

Laor takes care for the safety, the quality control of the chemical reaction and its documentation







Pre-operational chemical cleaning

Pre-operational cleaning involves the chemical cleaning and steam blowing of a new plant before its first commissioning. Depending on the surface condition and start-up specifications, the selection of the appropriate pre-operational cleaning procedure depends on various individual factors:

- The steam boiler Design Pressure
- The required protection level against corrosion
- The required surface cleanliness
- The steam purity to be obtained within a certain time the economic efficiency



operational chemical cleaning

Operational cleaning

involves the removal of deposits formed during operation.

According to the thickness, composition, state of material and the operational needs the operator chooses to clean or renew the tubes.



Before Cleaning



After Cleaning

Laor Engineering Chemical Cleaning

Experience in Power Plants

Client	Plant	Type of plant / work	Month/Year
Bazan Group	Carmel Olefines	25 Cleanings of TLX steam boilers	1997-2018
Paz Oil Refinery	Ashdod	Pre-Operational Chemical Cleaning (Boil-Out Procedure) of a new BABCOCK & WILCOX steam boiler	2017
M+W	Makhteshim Agan Ashdod	HRSG	2015
ISA Khoury Metal Industry	Makhteshim Adama Ramat Hovav	HRSG	2015
Nesher Israel Cement Enterprises	Ramla	HRSG	2014
Paz Ashdod Oil Refinery	Ashdod	HRSG	2008, 2012
BABCOCK BORSIG SERVICE GMBH	Dead Sea Works	2 x Boilers	2005, 2006
ALSTOM(AIPM)	Power Station Hadera	Boiler No.3	2000
DSW	Dead Sea	3 x Boilers	1984, 1988
ORL	Haifa Refinery	2 CE Boilers	1984



Laor Engineering Chemical Cleaning Experience with International Companies

Client	Plant	Type of work	Year
M+W	Makhteshim Agan Ramat Hovav	Chemical Cleaning	2015
M+W	Soreq power station	leakage tracing in a turbine's condenser	2016-7
ALSTOM	Eshkol Power station in Ashdod	coating of water boxes of condensers	2012
BABCOCK BORSIG SERVICE GMBH	Dead Sea Works	Chemical Cleaning	2005, 2006
Noble Energy Ltd	Noble Energy plant, Ashdod	High pressure and Hydrodynamic cleaning	2015

Laor Engineering – Experience with SIEMENS

Project Name	Contact	Description	Date
Adom Desalination site	Yoram Zadok	chemical cleaning of the steam bypass lines	2007
Ashkelon CCPP	Ariel Ring	coating of condenser covers	2008
power plant at Adom Desalination site	Gordover Yaacov	Repairs of the internal coating of the Steam Condenser	2014
power plant at Adom Desalination site	Gordover Yaacov	Hydrodynamic cleaning with High water pressure	2014
power plant at Adom Desalination site	Henry Kor	Repairs of the internal coating of the Steam Condenser	2015,2016 ,2017



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Our YouTube Channel



