



www.delpinoingenieros.cl



Brochure 2017
Delpino Ingenieros
Inspección Técnica
Ingeniería Multidisciplinaria
Servicios Generales



A grayscale background image of a construction site. In the foreground, a surveyor wearing a hard hat and safety vest is using a theodolite mounted on a tripod. The tripod has the brand name 'SECO' visible. In the background, there is a white pickup truck, several orange traffic cones, and a large, excavated hillside under a clear sky.

ASESORÍAS INTEGRALES **DEL PINO** LTDA

legally born in the month of January 2000. His first works were executed in the Municipality of Mejillones, in different specialties such as surveying services, development of Engineering, Architecture Projects. Our services were growing together with the City and Industrial Development Park because of its potential for development and strengthening in Fishing, Industrial, Port, Energy sector.

His first steps to the Great Mining began in 2001 to participate as a subcontractor in Phase III Smelter Refimet for a period of three years, and then be part of Team Project Management, this way born the name fantasy Del Pino Ingenieros understanding that takes responsibility to extend its services to the Engineering and Inspection Works, which to date has allowed us over time to increase our portfolio of strategic customers include among our customers:

Glencore Lomas Bayas, Foundry Alto North, SQM, Barrick Zaldivar, ESO (European Southern Observatory for its "Paranal Project" ALMA "Project" FRAMES "Termo Power E-CL Mejillones Project - Tocopilla, Mejillones Termo Electric AES GENER - Tocopilla.

Actually, the organization has a team of highly qualified professionals, as well as the resources needed to manage large multidisciplinary projects, serious and responsible manner, in the mining, industrial

The organization currently works with a team of highly qualified professionals and has the resources necessary to manage large, multidisciplinary projects in a serious and responsible manner for the mining and industrial sectors.



MISSION

DELPINO Mission Del Pino Ingenieros Limited is a company that provides engineering services and integrated projects for the mining, construction and industrial sectors, in an efficient and flexible manner and with the necessary planning and coordination.

VISION

Our Vision is to transform Del Pino Ingenieros Limited into a company offering excellence in integrated multidisciplinary services to the mining, construction and industrial sectors, to be recognized and chosen by our clients as a leading engineering services company based on the competitiveness of our services and the commitment of all of the members of our team, and to constantly seek to incorporate new technologies and intangibles such as knowledge into the way we work.

POLICY

DELPINO Policy Del Pino Ingenieros Ltda., It's a engineering company developing different areas such electrical, mechanical, civil, structural, sanitary, piping, surveying and architecture. Also developing technical inspection on site for projects on construction stage on mining and industrial industry. Our principal goal it's to provide products and or services based on innovating and quality process attending their needs and expectations based on higher standards for safety, health and environment care.

Del Pino Ingenieros Ltda., Has qualified human resources, last generation equipment, licensed software and certified high-tech instruments for all the services based on quality efficiency and effectiveness

Del Pino Ingenieros Ltda., is committed to continuously improving our process to ensure quality services and innovation updating our management system in accordance with international standards, ISO-9001, ISO 14001, OHSAS 18.001.

Del Pino Ingenieros Ltda., Commits all its services to preserve the environment and prevent pollution.

Del Pino Ingenieros Ltda., Commits in all services to prevent accidents and occupational diseases and safeguarding the integrity of all workers and employees.

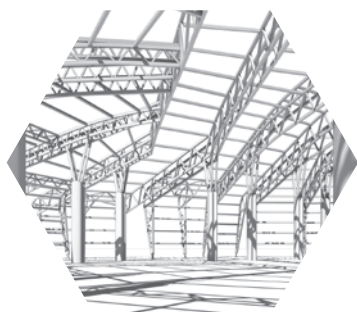
Del Pino Ingenieros Ltda., Will act in accordance with applicable laws and requirements set by our customers.

OUR SERVICES



CIVIL ENGINEERING

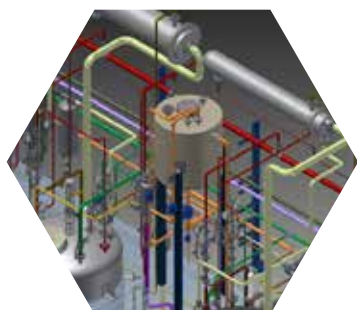
With a team of highly-qualified professionals in the field of Civil Engineering, Del Pino Ingenieros has developed conceptual engineering, basic engineering, detail engineering and shock engineering projects. We have experience in design, engineering validation, structural, civil, electrical and sanitary calculations, supporting functions, building projections, interference analysis and other specializations. Our Trimble TX-5 scanning equipment allows us to carry out 3D surveys including real analyses with millimeter accuracy.



STRUCTURAL ENGINEERING

Del Pino Ingenieros has a team of highly-qualified professionals and maintains strategic associations with prestigious universities which allow us to develop structural engineering, design and calculations, structural verifications of walls, CAPEX design and estimation for auxiliary facilities such as tanks, warehouses, workshops, enclosed spaces and others.

Additionally, Del Pino Ingenieros has developed technical terms for tender for the supply and assembly of industrial lifts, screens and agitators. For more information on related projects, see the Projects section of our website.



PIPING ENGINEERING

Del Pino Ingenieros has expertise in the area of piping. We have developed projections for pipelines for water and slurry tanks, among other projects. Our TX-5 3D scanning equipment allows us to precisely visualize interferences between pipelines, enabling us deliver on projects with the speed and accuracy that sets Del Pino Ingenieros apart as a leader in this field. To get to know more of our projects, visit the Projects section of our website.



ELECTRICAL ENGINEERING

Del Pino Ingenieros specializes in Electrical Engineering. We have carried out electrical engineering surveys of existing facilities in the mining and industrial sectors. Using our TX-5 scanning equipment, we have surveyed existing installations, regularized electrical drawings and obtained validation from the corresponding authorities. To get to know more of our projects, visit the Projects section of our website.

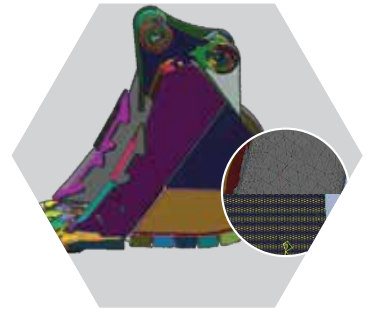
PLANNING ENGINEERING

Del Pino Ingenieros expertise in the area of Project Management has allowed our clients to trust us with the correct planning and control of building work for projects. We use the Last Planner methodology, in association with the Pontificia Universidad Católica de Chile.



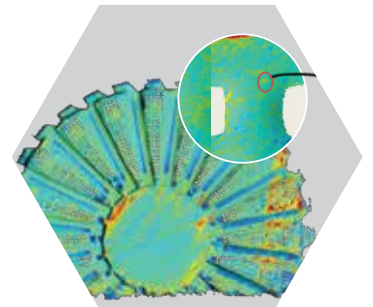
REVERSE ENGINEERING

Del Pino Ingenieros has the equipment necessary to carry out reverse engineering of highly-complex worn components, automatically recognizing the geometry of the piece to a high level of precision.



MECHANICAL WEAR ANALYSIS

Del Pino Ingenieros has the resources necessary to carry out high-precision mechanical wear analysis through 3D modelling. High-wear zones are visually highlighted with a range of colors, facilitating early detection of anomalies in the functioning or maintenance projections of the equipment. This technology can be applied to crusher shells and liners, longitudinal sections, automatic reporting, among other functions.

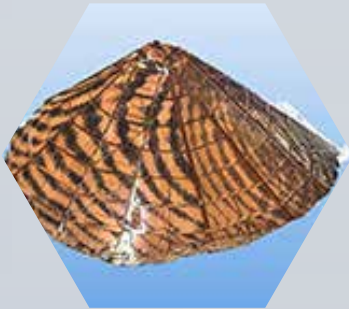


GENERAL SERVICES

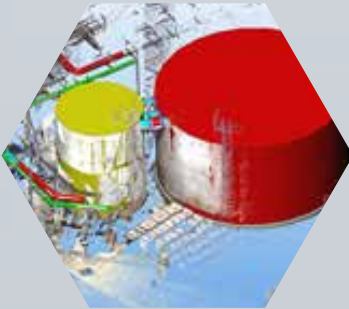
Del Pino Ingenieros has a range of specialist expertise in the technical and engineering area, allowing us to attend to the real needs of our clients, becoming an integral part of the execution of contracted work.



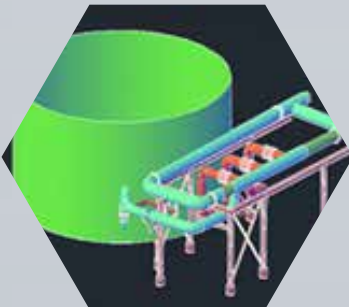
OUR PROJECT



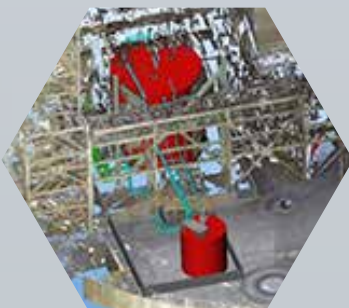
Stock Pile Structure
Lomas Bayas
Mining Company



Engineering for
Auxiliary Slurry Tank and
Filtering Study Control Room



Structure sector SX EW
Lomas Bayas
Mining Company



Structure sector
SX EW Electrolyte
Lomas Bayas
Mining Company

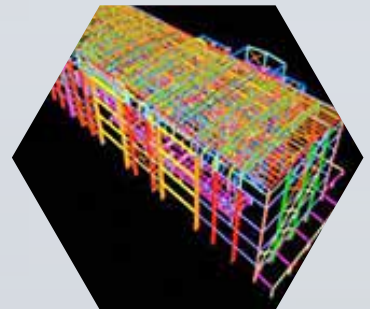
CONCEPTUAL ENGINEERING

Del Pino Ingenieros identifies the technical and economic viability of projects, laying the groundwork for the development of basic and detail engineering work. Conceptual Engineering is carried out based on prior studies and project requirements.

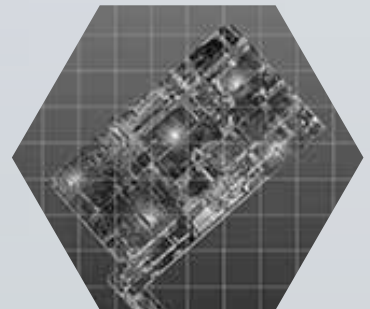
MULTIDISCIPLINARY ENGINEERING

In this service area, we respond to our clients' requirements, basic specifications, project schedule and economic criteria to generate data, define requirements and develop the necessary work.

ZALDIVAR CRUSHER 3



PIPING POSITIONS



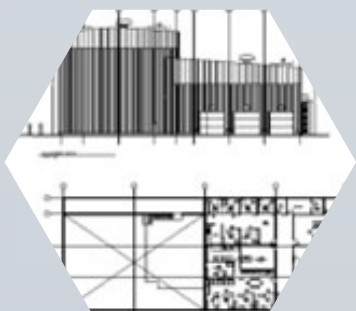
PIPING MODEL



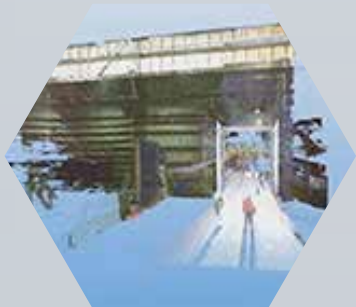
MOTOR SYSTEM,
LOMAS BAYAS



OUR PROJECT



Regularization of
Installations
Zaldívar Mining
Company



CMZ TRUCK SHOP



Antofagasta
Military
Church



Remodeling of
Mejillones
Municipal
Stadium

ARQUITECTURA

Our company has extensive experience in the field of industrial architecture, allowing us to advise our clients on new or existing projects in order to ensure compliance with current legislation, as well as providing specialized consultation on the permitting process required by different public institutions in Chile.

SURVEYING



Topography Services
Zaldivar
Mining Company



Topographical Survey
For New Astronomy
Project ESO



Lomas Bayas II
Expansion
Project



Project ALMA
Atacama large
Millimeter
Submillimeter Array

SHOCK ENGINEERING



Inspection of
Contruction
Reinforced
Earth Wall



Inspection of
Contruction
Refined Solution
PLS



Inspection of
Coated Steel and
Special Piping



Regenerative
Belts

OUR CLIENTS







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