

# NOMARNA CONSTRUCCIONES E INGENIERÍA S.A. de C.V.

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### Who we are?

With more than 20 years of experience, **Nomarna Construcciones e Ingeniería S.A. de C.V.** gained deep technical knowledge to provide appropriate engineering design solutions, consulting and construction services to the industry, as well as to offer professional and profitable high technology services.

Our approximately 80 highly skilled specialists are working with the highest quality standards to offer technical design solution for private as well as public companies. We achieve more than 4 million dollars (USD) turnover per year.

#### **Our Story**

In 1994 – The CEO and Founder Salvador Lozano opened a small office in Ciudad del Carmen, Campeche. At this moment, he provided, with his team of 10 employees detailed structural analysis and design services.

In 2002 – MARNA INGENIERIA, S.A. DE C.V. was born as an engineering company, offering services and consolidating as a company specialized in engineering. The office now had more than 25 specialists providing services in the field of civil engineering, telecommunications, as well as in electrical, mechanical and detail engineering.

In 2008 – Nomarna Construcciones e Ingeniería, S.A. DE C.V. became a serious competitive vendor within the engineering design industry in Ciudad del Carmen, being highly effective in the execution of industrial projects, especially for oil and gas on and offshore facilities. All our projects were profitably executed with the highest quality standards.

In 2010 – Nomarna Construcciones e Ingeniería, S.A. DE C.V. further grew and moved with a total amount of 60 employees to a whole new office building with 500 m2.

In 2017 – Our Company still grew. With our specialized team for construction and design engineering, we built our new modern corporate office with 1,400 m2 and more than 80 people that are employed.

## Quality assurance policy

In NOMARNA our clients receive construction, engineering and services solutions appropriate to their needs and requirements based on our values as a capable organization with high technical resources, we continuously innovate, using the best process based on quality management improvements.

#### Mission

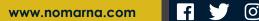
NOMARNA is the leading company to provide engineering, construction and service solutions, to achieve the total satisfaction of our customers, based on values such as honesty, respect, and commitment. Hence we have strategically employed talents that are characterized by their passion, commitment, and experience. We are an innovative company with human kindness and an inclusive culture, that acts in favor of our social responsibility.

#### Vision

Be a leader in the national and international market in integral engineering, construction and services solutions, inspired by our talented staff and state-of-the-art technology that are aligned to our quality standards, as well as be a sustainable and innovative company committed to the environment and society.

#### Values

- Honesty: We commit our thinking and acting with sincerity and coherence.
- **Commitment:** In all our activities we act with social responsibility and commitment. We take care, promote good behavior and respect the environment.
- **Respect:** We recognize, appreciate and value us individually, as well as our collaborators, customers, and the environment.
- **Trust:** One of the main objective of NOMARNA is to support our customers to specify their needs and fulfill them, to achieve the total satisfaction regarding the quality and reliability of our services.
- **Collaboration:** Working with internal and external collaborators, supporting and training NOMARNA personal.
- Innovation: We promote the search and development of creative and innovative solutions.
- Audacity: We accept the challenges and turn them into objectives.
- **Resilience:** We recover from adversity, to continue projecting the future.



#### Our services

We have a wide experience on project developments in all engineering areas, in facilities of oil and gas industry, architectural, on and off shore building construction including all specialties which are required for optimal performance and correct functioning of facilities:

- Basic, conceptual, detailed and design engineering.
- Physical surveys in field and work.
- Metal structures for offshore constructions.
- Architectural and 3D design for constructions.
- Buildings, industrial facilities and urbanization constructions.
- Electrical studies (short circuit, power flow, protections coordinating, and lighting levels).
- Tridimensional modeling, point black and 3D electronic models.
- Process optimization.
- Technology selection.
- Technical-economic feasibility studies.

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- Technical support.
- Work supervision.



## Our experience

We have accumulated more than 600,000 man-hours of experience executed with highly qualified, which has allowed us to develop various projects in all industrial areas especially for gas and oil, as well as consulting and construction services. Then The latest work carried out is listed, describing the scope of the main ones:

Company	Year	Project	Discipline	M-H	W-D
GOIMSA	2020	Structural surveying of bottom vessel plates on 12 thanks for a Jack Up Oil Rig.	Structural Engineering	240	
PROTEXA	2020	Structural Analysis of Load out, transportation and Installation for 7 Minimal Offshore Structures.	Structural Engineering	2100	
COTEMAR	2020	Surveying to develop the engineering to relocate frequency converters and shifting phase transformers, as operational requirements of oil wells at EK-BALAM Field.	Instrumentation, Electrical & Etructural Engineering.	720	
COTEMAR	2020	Surveying to and Engineering to disconnection and relocation of a second frequency converter from BALAM-TA to BALAM-TB Offshore platforms. Cable system, interconnections and tests as part of the scopes.	Instrumentation, Electrical & Structural Engineering.	245	
PEMEX	2019	Engineering Services Contract "Servicios Técnicos Especializados y Desarrollo de Proyectos para el Mantenimiento y la Confiabilidad de Instalaciones Marinas PEP".	Instrumentation, Electrical, Structural, Process, Piping, Mechanical, Flexibility, Safety, Civil Engineering & Architecture.	145,000	
COTEMAR	2019	Engineering to AKAL-GP & AKAL-TGP.	Instrumentation, Electrical, Structural, Process, Piping, Mechanical, Flexibility, Safety, Civil Engineering & Architecture.	5755	
COTEMAR	2019	Technical Support.	Process, Piping, & Flexibility Engineering.	159	
COTEMAR	2019	Technical Support.	Process Engineering.	22	
DEMAR	2019	Technical Support for the Development of the Electromechanical Works of 7 Minimal Offshore Structures.	Process & Piping Engineering.	8	
COTEMAR	2019	Heat Transfer Analyses.	Process Engineering.	480	
COTEMAR	2019	Technical Support.	Process Engineering.	130	
DEMAR	2019	Flexibility Analyses for suction and discharge pipe lines of GA-1100 RA Multiphase Pump, BMF Project.	Flexibility Engineering.	140	
COTEMAR	2019	Study with Specialized Technical Personnel to carry out a Heat Transfer Analysis and Technical Report for a 24" Ø pipe insulation at AKAL-L processes center.	Process Engineering.	80	Τ
COTEMAR	2019	Surveying and engineering development for decommissioning and relocation of a Frequency Converter Unit from BALAM-TA to BALAM-TB offshore platform.	Instrumentation, Electrical & Process Engineering,	3610	
PROTEXA	2019	3D Modeling for 7 Subsea Templates.	Structural Engineering.	560	
COTEMAR	2019	Engineering for Relocation & Modernization of the telecoms system from AKAL-L to EK-A Living Offshore Platform.	Structural Engineering.	628	
PROTEXA	2019	Engineering for Load Out, Transportation & Installation of 7 Minimal Offshore Structures.	Structural Engineering.	960	
PROTEXA	2019	Engineering for Load Out, Transportation & Installation of 3 Minimal Offshore Structures.	Structural Engineering.	760	
PROTEXA	2019	Engineering for Load Out, Transportation & Installation of a Minimal Offshore Structures (XIKIN-B).	Structural Engineering.	520	
PROTEXA	2019	Engineering for Load Out, Transportation & Installation of 7 Minimal Offshore Structures (Contract Extension).	Structural Engineering.	2940	
PROTEXA	2019	Engineering for Load Out, Transportation & On-site Installation of 7 Minimal Offshore Structures For the PER-35-18 Project "Construccion de Infraestructura como Unidades" (Additional Subsea Templates).	Structural Engineering.	790	

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Company	Year	Project	Discipline	M-H	W-D
COTEMAR	2019	Engineering for Relocation & Modernization of the telecoms system from EK-A Drilling to EK-A Living Offshore Platform.	Instrumentation, Electrical, Structural, Process, Piping, Mechanical, Flexibility, Safety, Civil Engineering & Architecture.	6046	
COTEMAR	2019	Detailed Engineering for a cantilever Fabrication to install a 25 c.m. vertical water tank for a drilling package at AKAL-R Offshore Platform.	Structural Engineering.	612	
PROTEXA	2019	Study of a circumferential welding for pile sleeves in Offshore Structures.	Structural Engineering.	20	
COTEMAR	2019	Study with Specialized Technical Personnel to carry out a Heat Transfer Analysis and Technical Report for the installation of flanges and 30" ball valve, 300 # RTJ Type, welding neck at separator discharge line pipe. AKAL-C8 Offshore Platform.	Process Engineering.	80	
COTEMAR	2019	Study with Specialized Technical Personnel to carry out a welding and heat transfer Analysis for two reduced TEE connections, one from 24" to 20" and the other from 24" to 16".	Process Engineering.	80	
LIFTING	2019	General Maintenance Service for Separation Battery No 2, Cuichapa Oil & Gas field.	Civil and Structural Engineering.	1558	
LIFTING	2019	Surveying, topographic studies and As-Built drawings for Separation Battery No 2, Cuichapa Oil & Gas field.	Civil and Structural Engineering.	1558	
LIFTING	2019	Surveying, topographic studies and As-Built drawings for Injection Water Battery Area, Cuichapa Oil & Gas Field.	Civil and Structural Engineering.	1000	
COTEMAR	2019	Structural review of the Hercules Crane Barge boom.	Structural Engineering.	480	
COTEMAR	2019	Flexibility Analysis for a 4" Ø pipe line and its interconnection ith the header pipes, E-KU-A1. Offshore Platform.	Flexibility and Structural Engineering.	140	
COTEMAR	2019	Topographic studies for COTEMAR Dock at Laguna Azul Port Ciudad del Carmen, Drawings as scope of works.	Civil and Structural Engineering.	312	
COTEMAR	2019	Engineering for the fabrication of sea fastens to transport in 3 modules the Telecoms tower of Rebombeo Offshore Platform.	Structural Engineering.	1695	
COTEMAR	2019	Topographic studies for COTEMAR Dock at Laguna Azul Port Ciudad del Carmen, during the construction of a telecoms tower.	Civil and Structural Engineering.	1032	
COTEMAR	2019	Engineering development of Double Displacement Project.	Instrumentation, Electrical, Structural, Process, Piping, Mechanical, Flexibility, Safety, Civil Engineering & Architecture.	59473	
PROTEXA	2019	Engineering for Load Out, Transportation & On-site Installation of 7 Minimal Offshore Structures For the PER-35-18 Project "Construccion de Infraestructura como Unidades" (Transportation and On-Site Installation).	Structural Engineering.	2397	
DEMAR	2019	Engineering for Analysis and Design of Structures Accessories to valve operating at AYATSIL-A, AYATISL-B & E-KU-A Offshore Platforms. (Drawings and Technical Reports).	Flexibility & Structural Engineering.	520	
DEMAR	2019	Engineering for Flexibility & Design of pipe process supports at AYATSIL-A, AYATISL-B & AYATSIL-D Offshore Platforms. (Drawings and Technical Reports, Additional Scopes).	Flexibility & Structural Engineering.	1180	
DEMAR	2019	Engineering for Refurbishment of Equipment and systems, Damages by Vandalism at AYATSIL-C Offshore Platforms.	Electrical, Instrumentation, Security Telecoms, Mechanical & Structural Engineering.	12186	
GRUPO R	2018	Basic Engineering for Fabrication and Installation of an attached oil well structure at XIKIN-A Offshore Platform.	Process, Security, Instrumentation, Piping, Flexibility, HAZARD & Risk Analysis, and Structural Engineering.	12100	

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Company	Year	Project	Discipline	M-H V
grupo r	2018	Detail Engineering for Fabrication and Installation On-Site of XIKIN-A Offshore Platform.	Process, Security, Instrumentation, Piping, Flexibility, HAZARD & Risk Analysis, and Structural Engineering.	13785
lifting	2018	Engineering for the Installation of an Horizontal Pump to manage crude in Battery No 2, Cuichapa Oil& Gas field.	Process, Piping, Civil, Structural and Electrical Engineering.	430
GRUPO R	2018	Geotechnical Engineering for improving its load capacity to Load Out Offshore platforms in API Port, Dos Bocas Tabasco.	Topography and Geotechnical Engineering.	600
DEMAR	2019	Engineering for Flexibility & Design of Pipe Supports for process pipes lines Supports at AYATSIL-A, AYATISL-B & AYATSILat PP-AYATSIL-A, AYATSIL-B, PP-AYATSIL-C & E-KU-A1 Offshore Platforms.	Flexibility & Structural Engineering.	895
grupo r	2018	Electromechanical Engineering for 06 oil wells at XANAB-D Offshore platform, includes technical reports and review and improvement of existing ones.	Process, Structural, Piping, Electrical, Instrumentation, Security and Flexibility Engineering.	4190
grupo r	2018	Engineering for Movement and Installation of the PMX-4046 Modular Oil from KU-M to AKAL-R Platform (Stage: Surveying and Engineering for Development of Drawing and Technical reports for Structural Improvements On-Site).	Process, Structural, Piping, Electrical, Instrumentation, Security and Flexibility Engineering.	5121
grupo r	2018	Engineering for Movement and Installation of the PMX-4047 Modular Oil from IXTOC-A to AKAL-S Platform (Stage: Surveying and Engineering for Development of Drawing and Technical reports for Structural Improvements On-Site).	Process, Structural, Piping, Electrical, Instrumentation, Security and Flexibility Engineering.	6402
GRUPO R	2018	Engineering for Movement and Installation of the COSL-3 Modular Oil from AKAL-TJ to EK-A Platform (Stage: Surveying and Engineering for Development of Drawing and Technical reports for Structural Improvements On-Site).	Structural Engineering.	650
grupo r	2018	Review and Improvement of the Existing Basic Engineering for XANAB-D Offshore Platform, at API Port in Dos Bocas Tabasco. (Surveying, Technical Reports, Drawing, Technical Sheets; Bill Materials, Etc.).	Process, Structural, Piping, Electrical, Instrumentation, Security, Telecoms and Flexibility Engineering.	11000
COTEMAR	2018	Engineering for Decommissioning of two separator tank s (FA-1102 & FA-1103) at AKAL-G & AKAL-H Offshore Platforms.	Process, Structural, Piping, Electrical, Instrumentation, Security and Flexibility Engineering.	6088
COTEMAR	2018	Surveying and Engineering development for a Package at "Nitrogeno Cantarell" Facility.	Process, Piping, Electrical, Instrumentation, Security and Flexibility Engineering.	12780
SUBSEA 7	2018	Engineering for Analysis and Design of a helideck at SINAN-SO Offshore Platforms.	Structural Engineering.	1450
UBSEA 7	2018	Engineering for Analysis and Design of a helideck at SINAN-NE Offshore Platforms.	Structural Engineering.	813
UBSEA 7	2018	Engineering for Analysis and Design of a helideck at SINAN-118 Offshore Platforms.	Structural Engineering.	960
CPI	2018	Basic & Detail Engineering for Conditioning on yard of PP-AKAL-GS to PP-XIKIN-A and PP-AKAL-H2 to PP-AKAL-D Offshore Platforms.	Process, Piping, Electrical, Instrumentation, Mechanical, Telecoms, Security and Flexibility Engineering.	37231

Company	Year	Project	Discipline	M-H	W-D
GRUPO R	2018	Engineering for Installations of Well Head for Starting & Fuel Gas at E- KU-A1 Offshore Platform.	Process, Piping and Flexibility Engineering.	1420	Γ
GRUPO R	2018	Engineering for a Well Head to dray and wet flows segregation at PP-MALOOB-D Offshore Platform.	Process, Piping and Flexibility Engineering.	1033	
SUBSEA 7	2018	Engineering for Analysis and Design of a helideck at KAB-B Offshore Platform.	Structural, Architecture, Security and Electrical Engineering.	2058	
SUBSEA 7	2018	Engineering for Analysis and Design of a helideck at YAXCHE-A Offshore Platform.	Structural, Architecture, Security and Electrical Engineering.	2078	
SUBSEA 7	2018	Engineering for Analysis and Design of a helideck at MAY-D Offshore Platform.	Structural, Architecture, Security and Electrical Engineering.	2072	
SUBSEA 7	2018	Engineering for Transportation and auxiliary Services for Helideck Structures of SINAN-NE, SINAN-118, BOLONTIKU-B, TSIMIN-A & TSIMIN-B Offshore Platform.	Structural, Security and Electrical Engineering.	5869	
COTEMAR	2018	Engineering for Safe & Health Industrial Risk Area Classification.	Electrical and Security Engineering.	200	
COTEMAR	2018	Study with Specialized Technical Personnel to carry out a welding and heat transfer Analysis for two reduced TEE connections, one from 24" to 20" and the other from 24" to 16".	Process Engineering.	160	
SUBSEA 7	2017	Engineering for Analysis and Structural Design of Helidecks for TSIMIN- A, TSIMIN-B, BOLONTIKU-B, SINAN-NE and SINAN-118 Offshore Platforms.	Structural Engineering.	4146	
COTEMAR	2017	Topography and Surveying Works.	Civil and Structural Engineering.	160	$\square$
COTEMAR	2017	Engineering for Lifting Drillmec Modular Drilling Rig at ABKATUN-D Offshore Platform.	Structural Engineering.	12360	
DORIS	2017	Flexibility Analysis and Structural Reinforcement to reduce the vibration of process pipe lines at ABKATUN-D Offshore Platform.	Structural and Flexibility Engineering.	393	
DORIS	2017	Analysis and Design of Interconnection for Operational Flexibility of 16", 6" & 3" pipe lines of the separator tank FA-6100 at Litoral TMDB Battery, Puero Ceiba.	Structural and Flexibility Engineering.	489	
DORIS	2017	Flexibility Analysis and Structural Reinforcement to reduce the vibration of process pipe lines at Litotal TMDB Battery.	Process, Structural and Flexibility Engineering.	528	
ASISPET	2017	Engineering for Electrical Links at the Litotal-A Processing Center.	Electrical Engineering.	3100	+
ASISPET	2017	Engineering for a Gas Fuel Package at ABKATUN-D Offshore Platform.	Structural, Process, Piping, Electrical, Instrumentation, Mechanical, Telecoms, Security and Flexibility Engineering.	7835	
ASISPET	2017	Basic Engineering for Sweeting Gas Fuel Packages of Pipe line No 5 at TMDB Facility.	Structural, Process, Piping, Electrical, Instrumentation and Flexibility Engineering.	3280	
EVYA	2017	Surveying works by Scanning to generate 3D modeling at CHUC-A & CHUC-B Offshore Platforms.	Civil and Structural Engineering.	120	
GRUPO R	2017	Study with Specialized Technical Personnel to carry out a welding and heat transfer Analysis for a TEE connection 30" X 30".	Process Engineering.	80	
SUBSEA 7	2017	Engineering for Analysis and Structural Design of Helidecks for Offshore Platforms.	Electrical, Structural, Safety Engineering and Architecture.	4146	
ASISPET	2017	Engineering for the Installation of a Gas Fuel Package and substitution of Well Heads at PB-ABKATUN-D Offshore Platform.	Structural, Process, Piping, Electrical, Instrumentation and Flexibility Engineering.	7835	
ASISPET	2017	Electrical Study and Engineering for the Existing Infrastructure at Litoral-A Processing Center.	Electrical Engineering.	3220	



Company	Year	Project	Discipline	M-H W-D
ASISPET	2017	Surveying and As-Built Engineering to Assess the Electric System at the ABKATUN-D Processing center.	Structural, Process, Piping, Electrical, Instrumentation and Flexibility Engineering.	2488
GRUPO R	2017	Study with Specialized Technical Personnel to carry out a welding and heat transfer Analysis for TEE connections 6" X 6", 3"x3" & 16x6".	Process Engineering.	240
COTEMAR	2017	Shaft Engineering to receive Drillmec Modular Drilling Equipment on Ayatsil-D Drilling rig.	Civil engineering	14,530
DORIS	2017	Flexibility Analysis and Structural Reinforcement for Elimination of Vibrations in Process Lines in Abkatún-D rig.	Civil engineering} Flexibility	393
DORIS	2017	Interconnection for Operational Flexibility 16 ", 6" and 3 "of Puerto Ceiba in Separator FA-6100 in the Shoreline Battery TMDB for Segregation of Currents.	Processing Instrumentation Pipeline Flexibility Civil engineering	489
DORIS	2017	Analysis of Flexibility and Structural Reinforcement for Elimination of Vibrations in Process Lines in Bateria litoral Terminal Marítima Dos Bocas	Processing Civil engineering Flexibility	528
ASISPET	2017	Electrical Study of Links in the Process Center Litoral-A.	Electrical engineering	3,100
ASISPET	2017	Development o engineeing of the Fuel Gas Package in the Abkatún-D Rig.	Process Instrumentation Industrial Safety Electric Mechanical engineering Civil engineering Pipeline Flexibility	7,835
ASISPET	2017	Development of Basic Engineering in Line 5 TMDB Sweetening Plants.	Process Instrumentation Pipeline Flexibility Civil engineering Electrical engineering	3,280
EVYA	2017	Survey with Laser Scanner on the Chuc-A and Chuc-B Rigs for the elaboration of the primitive three-dimensional model.	Civil engineering	1,020
GRUPO R	2017	Calculation memory to determine the weld to TEE enclosure Bipartisan 30 "x 30" calculation of heat transfer.	Process	80
ASISPET	2017	Installation of fuel gas package and replacement of heads on PB-ABKATÚN-D rig.	Process Instrumentation Safety Electrical engineering Mechanical engineering Pipeline Flexibility Civil engineering	7,835
ASISPET	2017	Electricity study at LITORAL-A process center.	Electrical engineering	3,220
ASISPET	2017	As-Built to determine electrical integrity, includes electrical studies in the ABKATÚN-D process center.	Electrical engineering	2,488
GRUPO R	2017	Calculation memories to determine the welding to Tee envelope 6 "x 6", 3 "x 3" and 16 "x 6" calculation of heat transfer.	Process	240
GRUPO R	2017	Structural Assessment of MALOOB-Offshore Platform.	Structural Engineering Process Pipeline	3,825

# Construction

Company	Project	Discipline
Bepensa	Construction of OXXO convenience stores in the southeast of the Mexican Republic	Administrativos, civil, eléctrico.
UNACAR (Universidad Autónoma del Carmen)	Multidisciplinary Workshop on Electrical Sciences, Electronics, Welding rooms at Campus II.	Engineering (Civil engineering)
Nataly Lozano Escudero		<b>0 0 1</b>
Ing. Salvador Lozano Moreno	El Diván Hotel and Hotel Usumacinta refurbishments in Ciudad del Carmen, Campeche. Hotel Usumacinta (1,409 m2), 75 guests capacity, restaurant and lounge bar services, plus two multipurpose rooms for 80 people.	Architecture, Engineering
Giacomina M. Merino Capellini	Guanal Pharmacy construction and refurbishment, Ciudad del Carmen, Campeche. Adequacy of areas and construction of two apartments on the upper floor. Total work area : 950 m2.	Engineering (Civil engineering)
Consejo Coordinador Empresarial Cd Del Carmen, Campeche.	Annex construction for offices in a 200 m2 area in Ciudad del Carmen Campeche.	Engineering (Civil engineering)
UNACAR (Universidad Autónoma del Carmen)	Construction projects for UNACAR: Building for the OFFSET workshops located in Ciudad del Carmen, Campeche; Adocreto in the roads, sidewalks and sidewalks at Villa Universitaria and the health center at Cafeteria Campus II.	

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#### Our main clients.

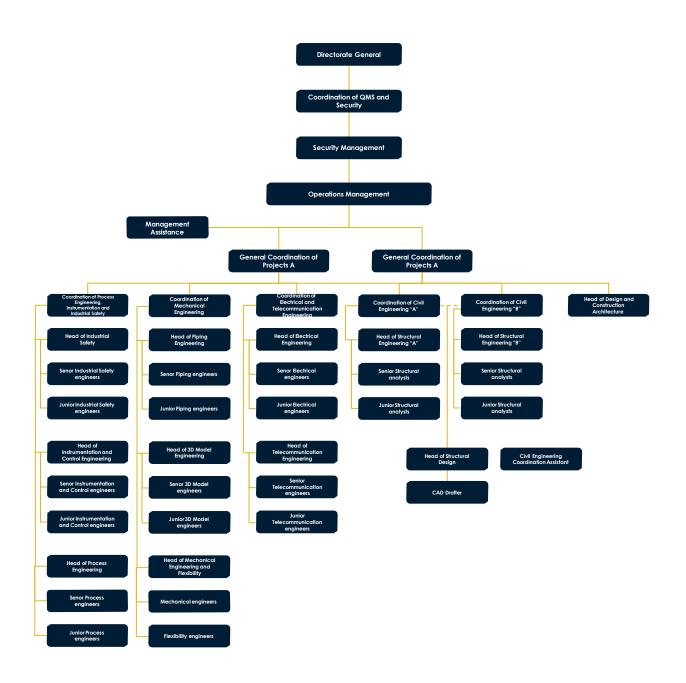
Considering that one of our main objectives in our Quality Politics is to support and satisfy all needs of our clients as well as increasing our participation in the industry market. Since the beginning of our professional experience, we have risen numbers of satisfied customers such as:



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# Our Operative Organization Chart.

We have employees with that are highly capable and distinguish their selves by their commitment, competence and effort. With continuous training programs their knowledge is been updated to new technologies.

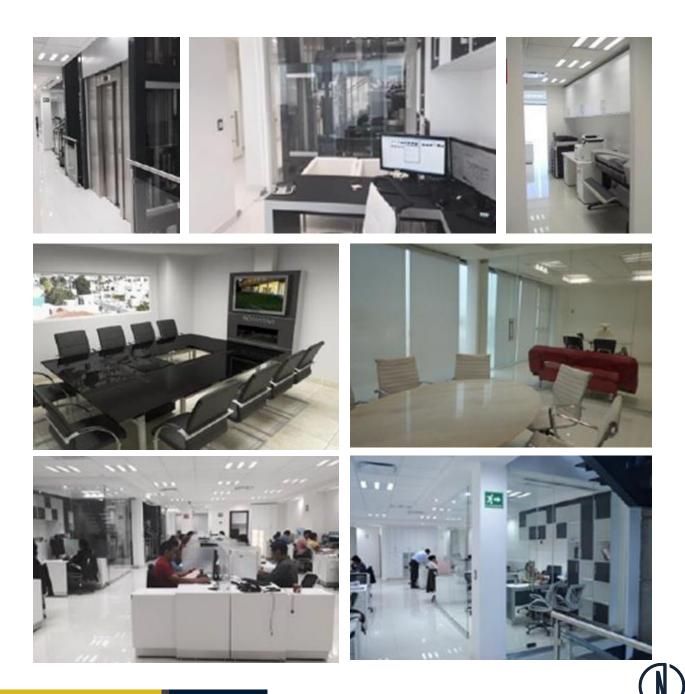


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#### Our facilities.

We have the necessary infrastructure to efficiently execute our professional and commercial activities. The new and modern corporate building which consists of five floors, with a generous design, a comfortable ambiance and a high quality offers the necessary circumstances for the best performance of the employees. NOMARNA is equipped with technological means and a support Team to satisfy all requirement for a national and international orientation.



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