



CORPORATE PRESENTATION

ABOUT US



MW&T has focused on building a world-class team of people who are capable of accomplishing any task. Our tight-knit group of talented staff has proven itself many times over by inventing novel approaches to solving customers' difficult challenges.



Our unique track record of innovation and passion for excellence sets us apart as the leader in automation. Whether you need MW&T to develop engineering and automation or help you take advantage of our contract equipment manufacturing, we have the scale and resources to reduce costs and speed time to market.

We help you face your challenges in factory design and automation by following an innovative and thoroughly-tested process to provide best-in-class solutions

ABOUT US



We offer the perfect synergy of experience, automation technology, and scale to advance factory automation solutions for the world's leading manufacturers.

INVESTIGATE

We analyze our extensive technology portfolio to determine whether MWT can effectively meet all project requirements through our deep knowledge base and proprietary technology.

INTEGRATE

We integrate technology and expertise from our world-class suppliers, as necessary.

INNOVATE

If the right tools don't yet exist, we combine our creativity and expertise to bring them to life.



COMPANY PROFILE



MW&T is based in Italy, has with 20 employees, is a multi-discipline engineering consortium of specialized companies in providing solutions and services as sub contractors of large Engineering & Contracting Companies as well as turn key projects to end-users, with today more than 200 satisfied customers. Our activities cover a wide spectrum of industrial activities: from the FEED and/or operational study up to the maintenance services. We provide our customers with tailored solutions based on customer needs maximizing the technology transfer of our previous experience.

Ten years of experience and in depth know-how, in addition to an organisation strongly oriented towards customer needs and constant technological innovation, have enabled MW&T to become a leader in the sector of automation and systems components for industrial process control. MW&T is synonymous with quality and expertise in the design and manufacture of sensors, components, systems and drives, thanks to its constant attention to market trends and continuous professional training of its technical personnel. MW&T offers the best customized solutions to optimize and improve the performance of each industrial application, providing, expert advice, synergy and partnership with its customers.



OUR EXPERIENCE



Whether you are a player in chemicals, oil and gas, refining, pulp and paper, power, pharmaceuticals, water and wastewater or any other industry, we are able to supply.

Performance, innovation and quality top our agenda. Our offering includes:

- Engineering of process plants
- ESD, PLC and Scada System
- Loading and Unloading Arms
- Instrumentation Packages
- Turn Key Process Skids: measuring, manifolds, mixing, separators, etc.
- Pig Launchers and Receiver
- Automation System supply, integration and configurations services.
- Waste Water Treatment Plant
- Reverse Osmosis Plants
- Demi Water Plants
- Motor Control Center
- Tank Construction



OUR WORKING WAY



EVALUATE

A successful 'FEED' study and evaluation is all about locking in value from the beginning. MW&T will engage with you at the earliest opportunity to offer all the benefits of their expertise as a multi-disciplined engineering consultancy and facility. We are uniquely placed to influence the quality of your project and ensure we always add that value.

DESIGN

After the evaluation, or 'FEED' stage, we take your project to our innovative and highly-skilled design team. Alongside our process engineers, they supply a full system design, using the very latest technology. At our Italy headquarters, we have a multi-disciplined team who work to provide exactly what your chosen solution demands.

BUILD AND TEST

Physically assembling the hardware makes your system come alive. Our highly regulated workshop works in line with full factory acceptance and has staging areas for testing, within a bright and spacious environment. Clients are included throughout this process, helping us get everything exactly right and teaching them about its capability.

INSTALL

When everything is fully tested and found to be working perfectly, we ship your material safely and securely to site. Our team follow your hardware to site and will install if required. Whether we install or not, we're always on hand to make sure everything runs smoothly.

OUR WORKING WAY



COMMISSION

Our software engineers are vital to the successful commissioning of your new Control System and travel to help set it up. They work closely with you to make sure everything runs like clockwork, whilst answering any outstanding questions you might have.

SUPPORT AND SERVICE

We understand that supporting your core system and new assets is extremely important. Through our multi-disciplined support & service agreements we can offer a solution which is tailored to meet your exact site requirements. This can be in the form of managed service contracts, call-out and remote support, site surveys or ad-hoc arrangements, we want to help you run your plant at maximum availability.



REPLACE

With MW&T you have peace of mind that we're on hand, to make sure that we can replace your system at the end of its working life. We understand what's required for a smooth transition and a smart reinvestment and with our industry knowledge and trusted partnerships, we'll know exactly what to do.

OUR ACTIVITIES



- Multi-disciplines engineering services
- Instrumentation & control plant engineering design (for grass root and retrofitting plants) from FEED study to evolutionary maintenance
- Turn key automation projects (ESD, DCS, PLC, ESD, Scada, F&G)
- System integration with all 3rd party devices and subsystems
- Fully engineered process measurement & control packages/skids including electric & mechanical design
- Certified reseller and package/skid integrator of the major Measurement and Instrumentation vendors (including valves, analyzers, special levels): sizing, selection and diagnostic tools
- Supplier of coating material for oil and gas pipeline (heat shrink sleeves and tapes)

PICTURES



**Pressure reduction skid, 48 inches
600#RE, pipe thickness 38mm
SCOP – Al-Fao, Iraq**

PICTURES



**Loading/unloading facilities, 19 loading arms
and 8 unloading packages**

SCOP - Al-Najaf, Iraq

PICTURES



Metering skid with ultrasonic flowmeters – 24 inches 300#RF

12.500m³/h Ethane rich gas

PICTURES



Firing skid, 4 inches 150#RF

**Linde Impianti Italia – Exxon Mobil
Project - West Qurna I, Iraq**

PICTURES



MCC & IYS Boards for LPG Plant

SCOP – Hilla/Nassiriya/Rusafa, Iraq

OUR MAJOR PARTNERS



MW&T is structured to provide focused support and sales within its main operations:

- Systems, Projects & Engineering Solutions
- Control Elements
- Measurement Devices
- Flow and Tank Gauging
- Asset Optimisation



In order to effectively support the wide range of equipment used in the industries, MW&T has evolved into a highly capable organisation, addressing all aspects of product support from order processing to long-term support, integrating the following equipments:

- **Yokogawa** DCS & PLC's
 - **ABB** DCS, PLC's & Scada
 - **Allen Bradley** PLC's & Scada
 - **HIMA** PLC for Safety System (ESD)
 - **Siemens** PLC's & WinCC
 - **Foxboro** DCS, PLC's & Scada
 - **Emerson** Instrumentation and valve

SIEMENS



YOKOGAWA 



ABB

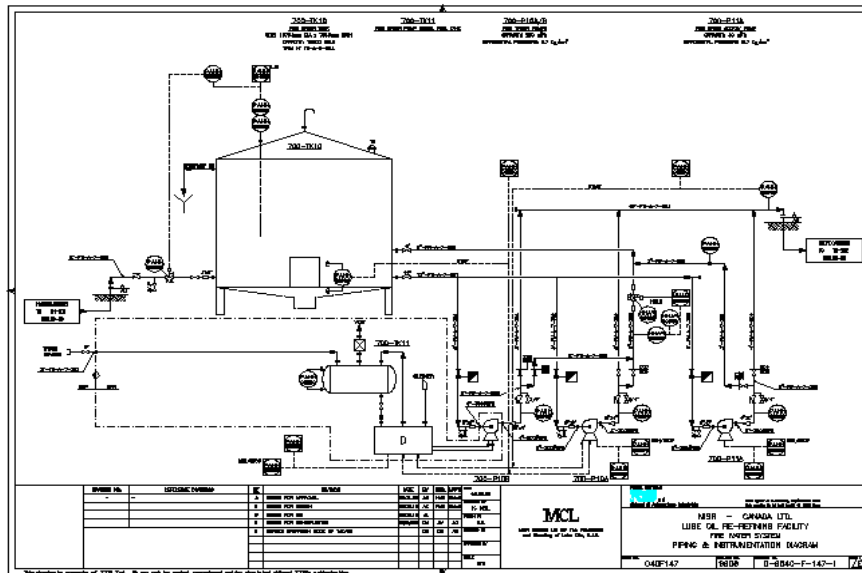


OUR SCOPE



MW&T can supply complete solutions for Customer needs, starting from feasibility study, the FEED and basic design, the detail design activities for procurement, construction and plant commissioning & start up.

The high level skill of the MW&T's employees is daily improved by the experience in the wide international environment of large Engineering - Procurement – Construction Contractors those are the main customers of the Company.



The approach to the need is global: chemical process, automation and/or mechanical, electrical, are only the aspects to analyse in order to provide the most effective solution: simple, flexible, modern, easy to maintain and update.

Field studies include the cable routing in case of Field Bus and / or traditional point to point connections as well the piping drawing for instrument “hook-up”

OUR SCOPE

DELIVERABLES

Preliminary & Feasibility Study

- High level customer needs specification
- Project schedule
- Scope of work
- Performance requirements & KPI's
- Environmental conditions (Std & Limits)
- Engineering procedure
- Codes & standards
- Document list (deliverable)
- Procurement constrains (vendor list)
- Quality requirements
- Safety requirements
- Environmental requirements
- Construction constrains
- Operation procedure
- Emergency procedure
- Maintenance requirements
- Contractual obligations (Terms & Conditions)



OUR SCOPE

FEED & Basic Design Study

- PFD = Process Flow Diagrams (revised or new)
- Hazop study analysis x instrumentation +F&G selection
- Area Classification check x instrument selection
- Material balance (overview x instrument settings)
- Data validation (safety valves check & calculation)
- Data validation (Control valve check & calculation)
- P&I Diagrams (review or new)
- Instrument list
- Plant layout analysis (few by CAD)
- Main piping lay out
- Main cable routing
- Basic stress analysis results x hook-up
- Vessels/columns
- Compressor/Turbines
- Packages: H2, N2, Dryers, etc.
- Pumps (steam, electric)
- Control / safety valve & special shutdown valves
- Analyzers (process and environmental control)
- Special fluids (catalyses, etc.)
- Special instrumentation: tank gauging, X-ray, density, fiscal



OUR SCOPE



Detail Design Study

- Purchase orders process: from Inquiry Requisition to vendor
- Expediting & tests
- Hook up drawings
- DCS-ESD-F&G I/O lists with settings parameters (including MCC)
- Control Room / aux & SS room layouts
- Single line (instruments & electric) diagrams
- JB and/or field bus equipment cabling dwg's
- Cable list (single pair, multi-cables, field buses, fiber optic) cable routing & sections
- Bulk material list
- Marshalling Cabinets DWG's
- Barriers & earthing cabinet DWG's
- I/O and processor Cabinets DWG
- Power supply & auxiliary cabinets DWG
- Control Rooms interconnection DWG
- Control Room Architecture & safety requirements
- Field Bus path & wiring studies & lay-outs
- FDS: Functional Design Specification
- Control Logics: cascades, formulas, etc.
- Digital Sequences description (narrative + AND/OR)
- Custom Graphics drawings
- ESD - F&G sequences
- Special functions programming: analyzers, etc.
- Two wires loop diagrams
- MCC interface & electric control requirements
- DCS-ESD-F&G I/O configuration (data base)
- Serial data configuration (data base)
- Control Loop & Calculation Configuration
- Historian Data & Trends configuration
- Alarm settings & message to operators
- Reports
- Interlocks & Sequences
- Serial Interface Study, test, FAT
- FAT & Certifications
- Assembly DWG's
- Systems wiring diagrams
- TEST Procedures
- As Built Documents: software
- Installation & Commissioning

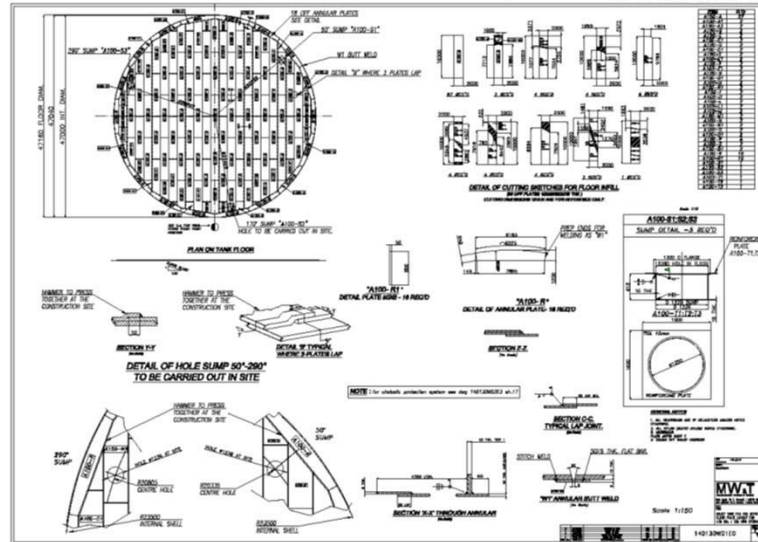
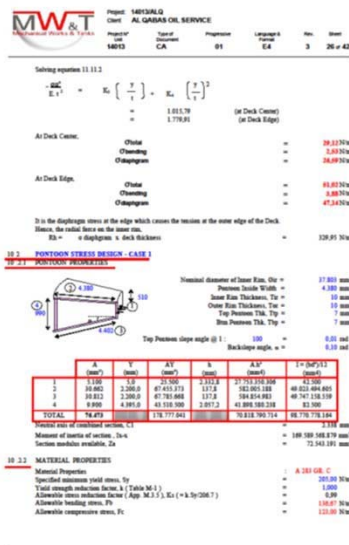
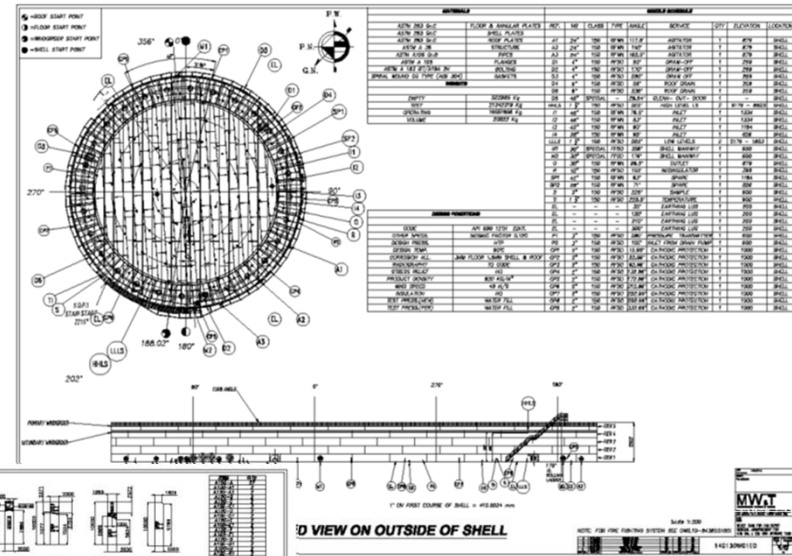
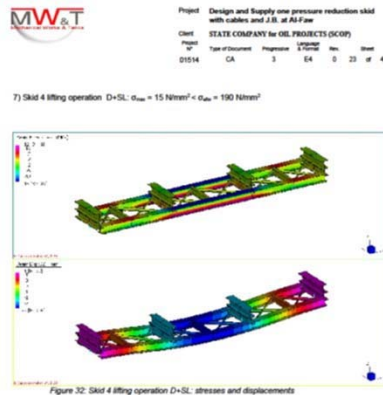


OUR SCOPE



Detail Design Study

- Mechanical drawings
- Mechanical calculations
- Stress analysis
- Shop drawings
- Civil drawings
- Isometric drawings
- API650 tanks calculations
- API/ASME tanks calculations



TECHNICAL & QUALITY CONTROL



All our products are manufactured and tested in strict compliance with the "Quality System" which the company has. The tests conform to **PED, ASME, ATEX** are certified by International Institutions: **ISPESL, ASME, TUV, BUREAU VERITAS, Lloyd's Register, Vinçotte, Det Norske Veritas.**





**THANKS
FOR
WATCHING**