MTi Co., Ltd.

EPC contractor in Oil & Gas plant Power & Energy plant Industrial plant







Manpower

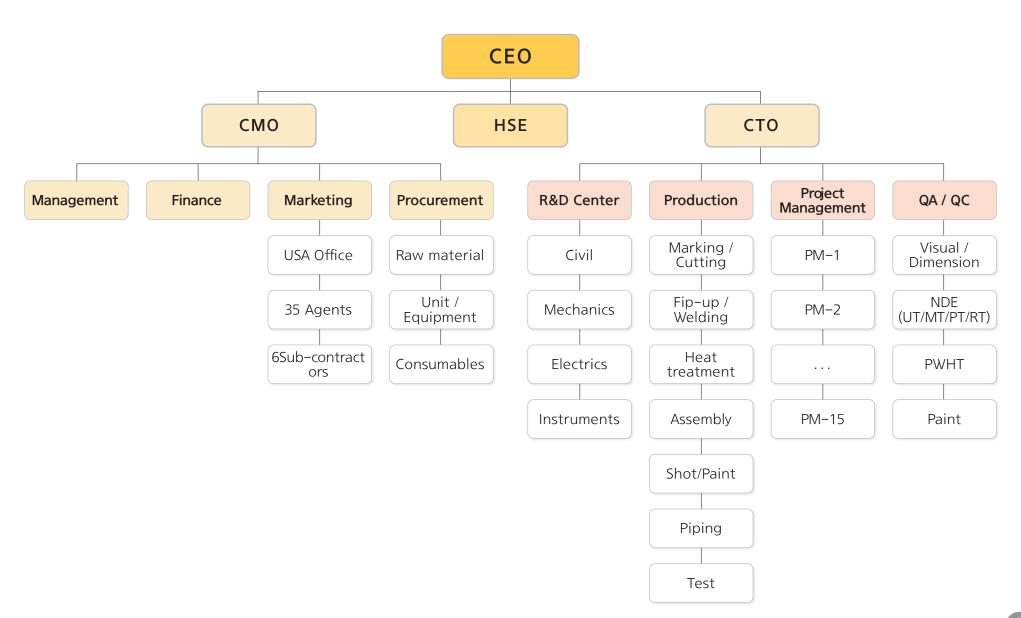
Manufacturing Shop

Annual turnover

Division	Member	Factory & Facility	Capacity	Sales amount	USD
Management	16	Area	45,500 m²	2010	45,500,000
Purchasing	14	Factory	29,800 m²	2011	51,150,000
Engineering	244	Office	5,500 m²	2012	68,500,000
Production	86	Machine shop	Plano-miller -2 Boring m/c -3		
Erection & Service	18		Milling m/c -3 Lathe m/c -3 Radial Drilling m/c, etc. Turning rolls, Positioners, Manipulators, Auto welders		
Quality control	15	Crane (EOT, GC)	200,100,50,30,20,10 ton		
Total	393	Annealing shop Shot blast shop Painting shop	20Lx20Wx15H,m 25Lx25Wx15H,m 25Lx25Wx15H,m		









EPC Business Range



Petrochemical plant

- Lube Base Oil Plant
- BTX Plant
- Para-Xylene Plant
- VR / CAA Project
- Hydrogen Plant
- Poly Ethylene Plant
- Ethylene Plant
- PTA Plant
- Polypropylene plant

Oil and Gas plant

- Crude Oil Gathering Centre
- Gas Processing Plant
- Gas Booster Station
- LNG / LPG Plant, CDU / VDU
- Heavy Oil Upgrading Plant
- Hydro-cracking Plant
- Sulfur Recovery Plant
- Tank Terminal, Oil Refinery Plant
- LPG / LNG Bottling plant

Industrial plant

- Poly-silicon Plant
- Municipal Waste Incineration Plant
- Solid Waste Incineration Plant
- RDF (Refuse Derived Fuel) / RPF (Refuse Plastic Fuel) Plant, WTE
- Supply water & Wastewater Treatment
- RO, Desalination plant
- Shipyard-Shiplift & Transfer system
- Steel plant-Mini mill, Pipe mill

Power & Energy plant

- CFPP (Coal Fired Power Plant)
- CCPP (Combined Cycle Power Plant)
- Solar power, Wind power, Hydro, Bio-mass power plant
- CHS (Coal Handling System) in CFPP
- HRSG, Boiler, Condenser, Heat exchanger, Pressure vessels
- Power Substation & Transmission line



Power Plant

CFPP, CCPP, Wind, Hydro, Solar, Biomass power plant, Substation & Transmission line



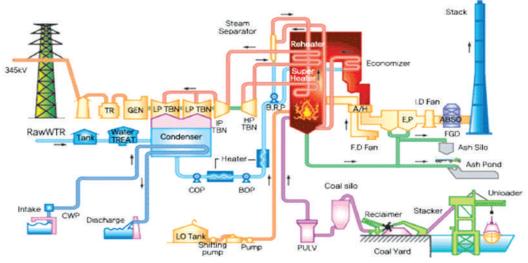




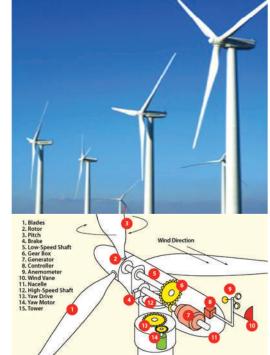




HRSG Boiler Heat exchanger Condenser Deaerator Evaporator Chiller CHS







Capacity	750kw, 1.5Mw, 2Mw, 3Mw
Volume	Φ4,000 x L70,000 (3 pieces)
Internal	Door, Ladder, Deck, Lamps
Components	Flanges, Plates, Cables



Substation & Transmission line







WTE(Waste To Energy), RDF/RPF, Incineration & Power plant



Municipal / Industrial waste



RDF / RPF (Refuse Derived / Plastic Fuel)



RDF plant for Municipal house wastes
- Capacity: 45ton/day

- Caloric: 4,500 Kcal/kg
- In 1998



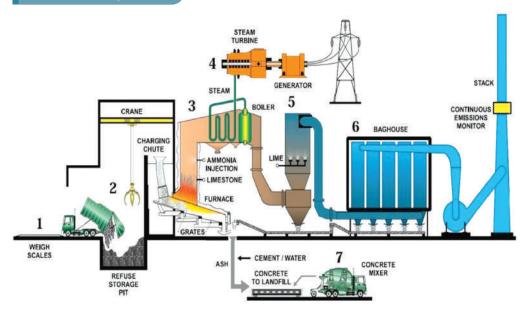
RDF plant for Municipal sea wastes
- In 2000



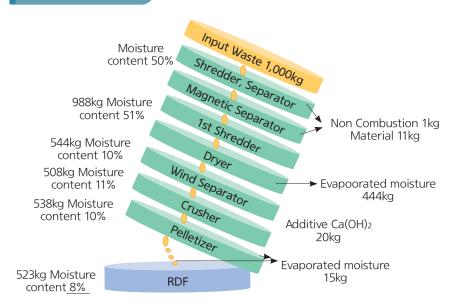
RPF plant for Municipal industrial wastes

- Capacity: 40 ton/day
- Caloric: 7,000 Kcal/kg
- In 2003

Process of plant



Mass balance





Supply water & Wastewater Treatment plant



Metropolitan Water Supply System

With our advanced technologies, we are dedicating ourselves not only to the establishment of new water treatment plants but also to the optimization of existing facilities in municipal and industrial sectors, MTi offers comprehensive wastewater treatment plant for sewers and wastewater for municipalities and industries. MTi activities cover planning, design and supervision of rehabilitation of existing water supply facility, sewer and new wastewater treatment plant.

Water supply, Sewerage reference:

- Master Planning and Detail Design of Metropolitan Water Supply System
- Master Planning of Metropolitan Wastewater Treatment System
- Basic Design of Industrial Water Supply System with highly advanced water purification process
- F/S, Mid and Long-term Master Planning of Seawater Desalination
- F/S and Master Planning of Water Supply System



Sewage Treatment Plant • Capacity: 152,000 m³/day

• Activated Sludge Methods



Sewage Treatment Plant
• Capacity: 740,000 m³/day



Metropolitan Water Supply System

Capacity: 400,000 m³/day



Urban Wastewaters Treatment
• Capacity: 11,760 m³/day



RO & Desalination plant

Multi Stage Evaporator



MSF



RO (Reverse Osmosis) plant



Water box





Intermediate piece





Shiplift & Transfer System

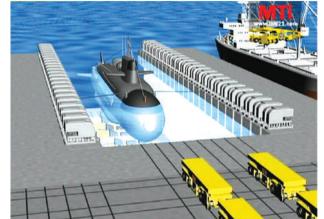
Shiplift enable to launch and un-launch ships in a very time efficient and controlled manner. All winches are monitored by the control system and load cells to ensure load distribution within the design limits. By utilizing various type of hoist capacities and vary the spacing, total capacity, platform size, etc.

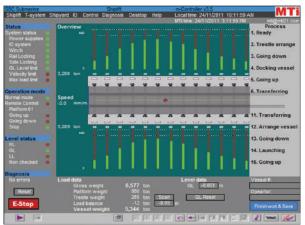
Shiplift:

- Lifting weight: max 25,000 tons (upto 100K dwt)
- Lifting speed: 250 / 350mm/min (full load / unload)
- Winch Ass'y: 600ton × 54 sets
- Shiplift dimension: 220m L × 34m W
- Draft: max 13 m

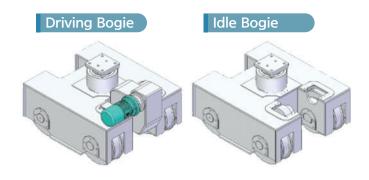
Transfer system:

- Static payload: 600 tonsAxle load: 4 nos × 150 tons
- Transfer speed: 5 / 10 m/min (full load / no load)
- Remote Control and Monitoring System





The control system can continuously monitor and display hoist loadings on main control monitor at real time by load cells. Control system consists of MCC panel, Vector driver panel, PLC panel, Operation panel, UPS, Control desk & 25" HMI computer system, 25" Backup computer system, Printer, Site monitoring devices by 3–CCTV cameras, Microphone/ speaker/ horn, Power & control cable, Profi bus & communication cable, Operating software.





4,100Ton Submarine Shiplift & Transfer System



4,200Ton Vessel Shiplift & Transfer System



1,800Ton Warship Shiplift & Transfer System



12,000Ton Vessel Shiplift & Transfer System



Mini mill, Pipe mill, Rolling mill

Mini Mill:

MTi's rod mill outlet can produce rod products at a very high speed of over 100m/s. At the same time, it has superior technology to control the accuracy and thermo-mechanism that enables customers to produce high-quality products efficiently.

Due to the controlled, Thermo mechanical Rolling and Cooling process, rod has superior physical and metallurgical properties.

Capacity: 50,000 ~ 500,000 ton/year

EAF / LF / IMF Furnace , CCM Billet RHF, Roughing mill, Intermediate mill, Finish mill, Cooling bed









Rebar Wire rod Structural steel

Pipe Mill:

- Kind of tube: round pipes, square tubes and rectangular tubes
- Raw material: mild steel, carbon, galvanized steel for HR, CR coil
- Application: API, ASTM, ARAMCO, BS, KS, JIS, etc.
- Diameter: ½" to 24" pipe
- Production speed: 20 to 150 m/min
- Welding method: ERW for carbon steel, HFI for stainless steel

Entry Forming Welding Sizing Cut-off Finish Packing

Steel coil



Round pipe Square tube Rectangular



Forming Section





Crane & MHS (material Handling System)

LLC(100ton)



Goliath crane (3,000ton)



Floating crane (25,000 ton)





MTi has produced special crane like nuclear crane in SFP and DLP,

Goliath crane in Shipyard, RMQC, RTGC and LLC in seaport, MHS (Material Handling System) for coal, cement clinker, lime stone, sand, minerals last for 30 years.





RMQC



RMQC





Ship loader & unloader, CSU (Continuous Ship Unloader)









MTi offers total solution for all handling system in Coal fired power plant, cement plant, concrete plant, and so on.

The system will contain system calculation and evaluation data and the CSU on a jetty, stacker and reclaimer in a stock yard and conveying system to a boiler bunker.

Stacker & Reclaimer, Dome type of cokes yard

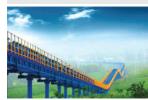








Overland conveyor system





Global network

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Mrs. Sujin C. Huber

• 40 Agents & 7 Sub-contractors in the World.

