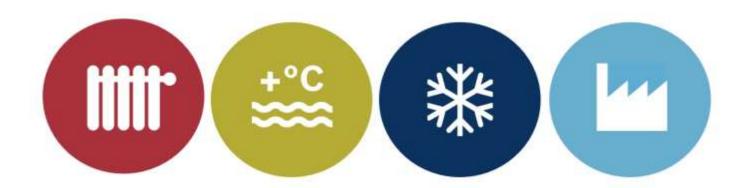
MNK Energy Energy Efficiency Technologies







Heating | Hot Water | ORC | Large Systems Reliable and High Efficient Products



About Us

MNK is an engineering&manufacturing company that was founded by Mehmet Nuri Karahan in 1999. Firstly, companies main facility is special purposed machinery.

In 2013 MNK has started Energy project with Mustafa Karahan who is 2nd generation of company and experienced in Energy sector. With its specialized engineers in design, analysis and test; MNK provides turn-key especially thermal energy project services.

Main office is in Uludağ University, Ulutek Technology Development Zone in Bursa and Manufacturing facilities are in Kayapa O.S.B. in Bursa. MNK manufacturing facilities just cover high precision and quality Pressure Vessel Welding works.

MNK has an special design Heat Recovery Solutions for companies which needs custom designs.

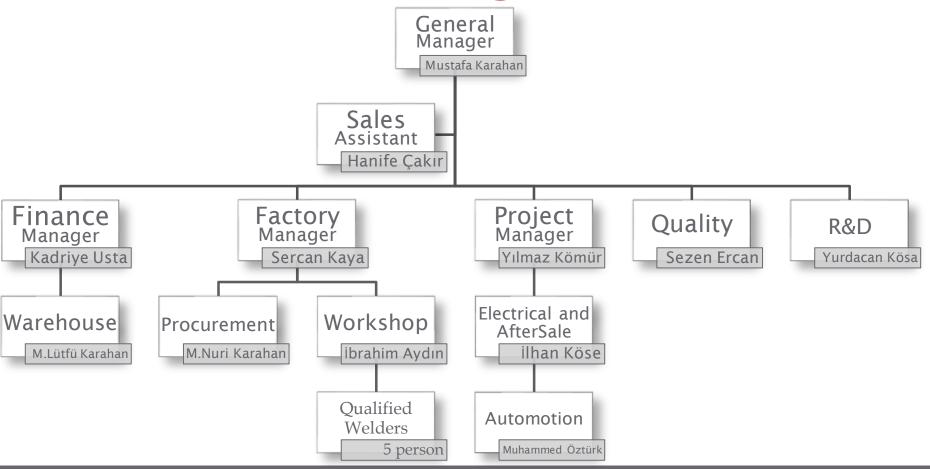


At a Glance

1999	MNK Mechanical Co. established by Mehmet Nuri Karahan
2013	transformed to MNK Energy&Boiler by Mustafa Karahan
2014	launched The R&D office into Technology Improvement Zone
2014	started to manufacturing facility in Nilufer Industrial Zone Factor
2014	commissioned Turkey's biggest Steam Accumulator(2 unit 225 m ³
2015	first key-turn Steam Boiler Plant export to Germany
2016	commissioned Turkey's biggest Agricultural based Biogas Plant
2017	signed contract European biggest LFG based ORC Plant
2018	first patent (GasketFree Air Sealing Damper)



Organization Chart





Design





Incompressible Pipe Flow Analysis & System Modeling Software

AFT Fathom™9



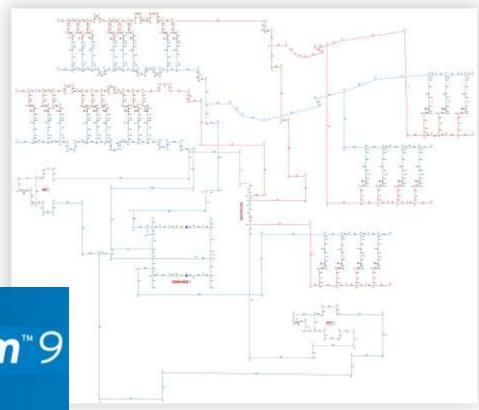


Incompressible Flow Analysis

AFT Fathom is practical fluid dynamic simulation software used to calculate pressure drop and flow distribution in liquid and low velocity gas piping and ducting systems.

Incompressible Pipe Flow Analysis & System Modeling Software

AFT Fathom™9

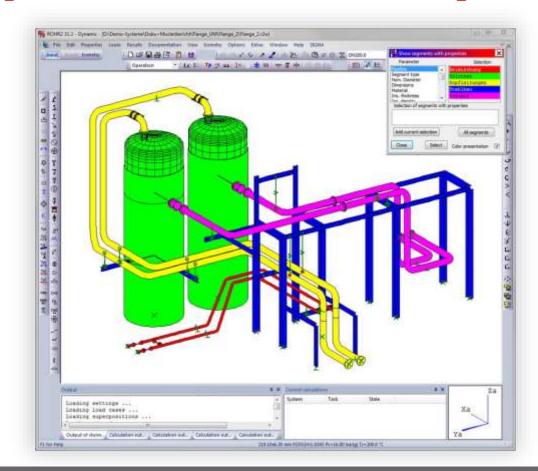




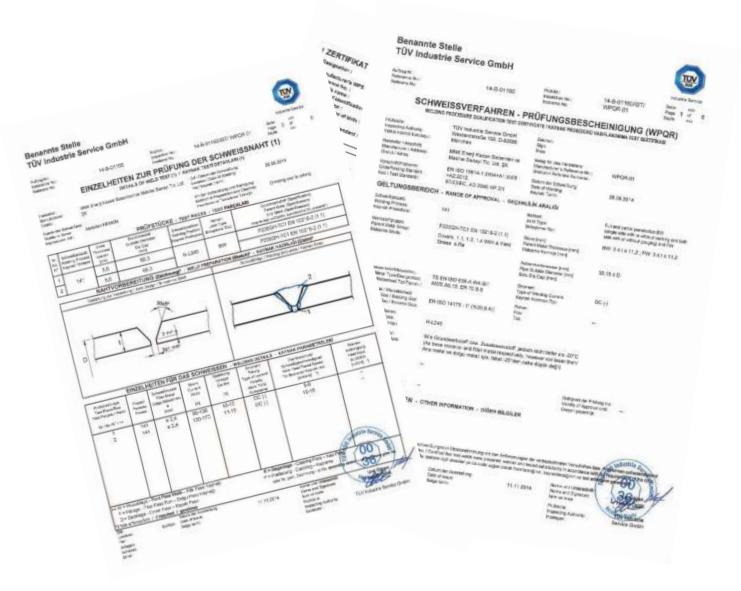
Pipe Stress Analysis

ROHR2 is the leading Software for Pipe Stress Analysis, a standard tool for pipe static and structural framework analysis.









Certificates















List of Equipments Lifting, Positioner

Machine	Brand	Capacity	Quantity
Crane	Özfatihler	25 ton	1 pc
Crane	Özfatihler	5 ton	1 pc
Forklift	JAC	3 ton	1 pc
Hand Pallet Truck	JAC	5 ton	1 pc
Hand Pallet Truck	JAC	3 ton	1 pc
Welding Positioner	MNK	40 ton	1 pc
Welding Positioner	MNK	30 ton	1 pc
Welding Positioner	MNK	20 ton	1 pc



List of Equipments Cutting, Bending, Forming

Machine	Brand	Capacity	Quantity
Plasma Cutter	Durma 260A	3,5 m X 12 m	1 pc
Mobile Plasma Cutter	SAF 130A		1 pc
Oxygen Cutter	Durma	3,5 m X 12 m	1 pc
Mobile Oxygen Cutter	Tanaka		1 pc
Sheet Bender	Bendmak	2 m - 25 mm	1 pc
Hydraulic Press	Borhanlı	150 ton	1 pc
Booster Tube Bender	Cansan	65 mm	1 pc
Tube Expander(Mandrel)	Yurtbaşı	3"	1 pc



List of Equipments Machining

Machine	Brand	Capacity	Quantity
Radial Driller	TOZ	80 mm X 1 m	1 pc
Magnetic Driller	AEG	80 mm	1 pc
Universal Driller	Tiryaki	50 mm	2 pcs
Lathe	TOZ	600 mm X 3000 mm	1 pc
NC Milling Machine	First	800 mm X 400 mm	1 pc
Pipe Notcher Machine	Cesurbend	90 mm	1 pc
Tube End Preparation Mac.	Babcock	101,6 mm	1 pc
Sheet Beveller	NKO	50 mm	1 pc



List of EquipmentsWelding

Machine	Brand	Capacity	Quantity
SAW Weld. Machine	ESAB	1000A	1 pc
MIG Welding Machine	ESAB	400A	1 pc
MIG Welding Machine	Buğra	400A	3 pc
Column Boom Positioner	ESAB	4 X 5 m	1 pc
TIG Welding Machine	ESAB	300A	10 pcs
TIG Welding Machine	Blueweld	400A	4 pc
SMAW Weld. Machine	Oerlikon	500A	1 pc
Nozzle Beveller	NKO	16 mm Thickness	1 pc



List of EquipmentsSurface Preparation, Painting

Machine	Brand	Capacity	Quantity
Infrared Temperature for Painting	TESTO	830	1 pc
Surface Profile for Sandblasting	PosiTector	0 – 1200 μm	1 pc
Humidity Meter for Painting	TESTO	625	1 pc
Surface Thickness for Painting	TESTO	0 – 1330 μm	1 pc
Sandblast&Painting Booth	MNK	12X10X8 m	1 pc
Sandblast Machine	Endüstri GM	200 liter	1 pc
Screw Compressor	Dalgakıran	45 kW	1 pc
Airless Painting Machine	Wagner	600Watt 110Bar	1 pc



List of Equipments Acceptance Test

Machine	Brand	Capacity	Quantity
Boiler Tube Cleaning Mac.	MNK	1,5 kW	1 pc
Multimeter	FLUKE		1 pc
FlueGas Analyzer for Accept. Test	TESTO	300 LX	1 pc
Digital Pressure Indicator	SIKA	E2	1 pc
Energy Analyser	Schneider		1 pc



References



INTERNATIONAL

















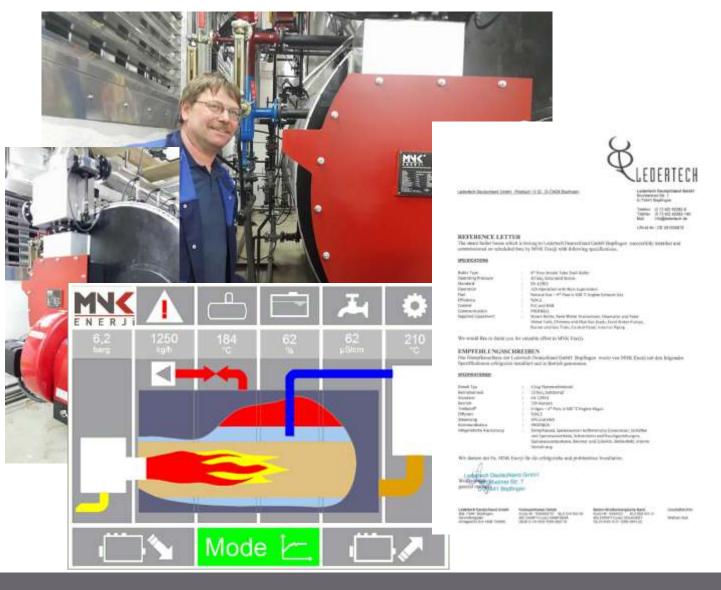












LEDERTECH Deutschland GmbH



4 Pass Boiler
Waste Heat
Boiler and Fired
Boiler in Same
Body Working in
Germany







4 X 17 MW Superheated Shell Boiler for 1.800 MW Alba Power Plant



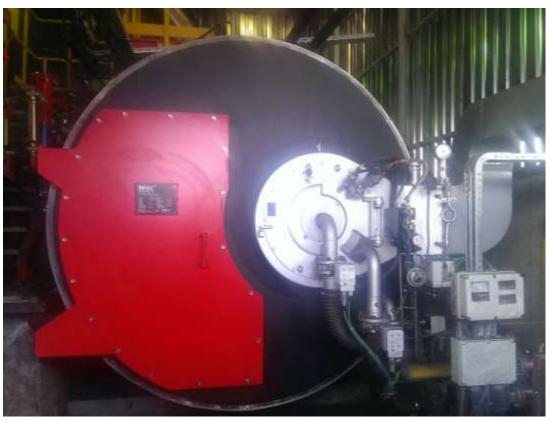






2 unit
Thermal Oil
Heat Recovery for
ORC











First and Single
Natural Gas, Syngas
Biogas Fired Steam
Boiler 6,3 tph
10 bar_g







3 Pass Fired
Steam
Accumulator
Nominal 7 tph
Peak 30 tph
(for 3 min)









Steam Boiler
For Turkey Largest
Energy Efficiency
Laboratory











10 Units
1 MW Biogas Engine
Waste Heat
Boiler to Produce
12 bar_g Steam







Bi-Plane
%100
Air Sealing
Dampers











Waste Steam
Recovering and
Accumulation



Factory





R&D Office in TechnoPark

