









- Our company Kagem was founded in 2005 in Türkiye. However, we are active in Europe, Asia, and South America. Therefore we would like to give a piece of brief information about us.
 - As Kagem, we have capabilities of manufacturing (welded and CNC machining, assembling, and commission turnkey for process industries and
- industrial plants. However, we can also serve at your worldwide sites with our engineers, supervisors, and certified specialists (welders, operators, and helpers).

TEAM PROFILE



KAGEM has the most experienced experts and consultants with PhD, Masters and Bachelor degrees;

- ✓ Mechanical engineers
- ✓ Environmental engineers
- ✓ Energy engineers
- ✓ Civil engineers
- ✓ Welding engineers (IWE& EWE)
- ✓ Design engineers
- ✓ Site Managers
- ✓ Site Supervisors









OUR APPROACH



- KAGEM is structured in vertical markets to increase our focus on industry needs.
- The Vertical Market Industrial offers innovative and tailor-made solutions for each market segment and customer.
- Our global team of KAGEM and corporate office experts provides the infrastructure, tools, and processes to bring your business to the next level with effective site Operation and factory works

OUR APPROACH



Turnkey, engineering, procurement, and assembly (EPC) contracting services KAGEM Industry is committed to providing services to its customers.

- Detailed Engineering Equipment design
- Field and Factory Manufacturing
- Material procurement and supply (Domestic-Foreign)
- Mechanical
- Electricity & Instrumentation,
- Insulation, paint, and coating
- It undertakes to undertake the whole of the required business areas including the commissioning of the system or part of the customer's preference.



RELIABLE PARTNER



Dedicated approach for all segments. These are our Industrial Sub-Verticals

Process piping & Pressure Eqp.

Automation & SCADA

Raw and Base Material

RELIABLE PARTNER



We have the solution for several Industrial segments.

Process Piping & Equipments

Piping & Spools

Plant & Tanks

Process Equipments

Tailor Made projects

Automation & SCADA

Components

Systems & Automation

Appliances

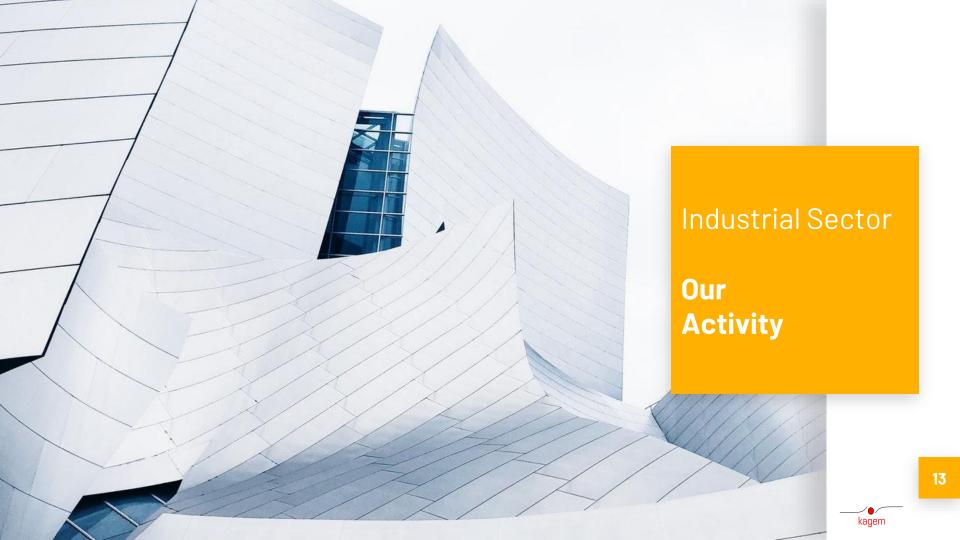
Raw and Base Material

Pipe & Fittings

Valves

Non Metals & Metals

KAGEM Industrial Solutions are special services for diverse industries and we constantly invest in knowledge, technology and markets in order to remain a leading EPC service provider in Industrial markets.



Main Sectors

Our company's activity



ENERGY: Our company provide many services in the fields of energy; we highly offers heat recovery system; Fluid bed type boiler power plant and construction, assembly, maintenance, repair and management

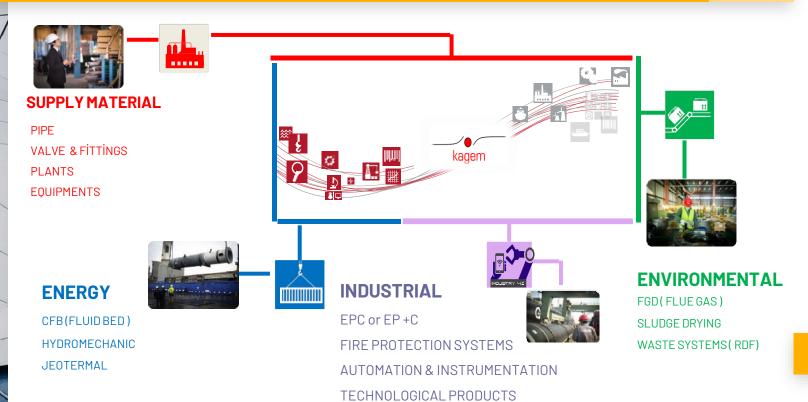
ENVIRONMENT: Our group invest in R&D of environmental technologies. We provide turnkey engineering, procurement, construction, maintenance, repair and operation services in fields like RDF systems; Air Treatments (VOC - Flue Gases); Odor Removal Systems

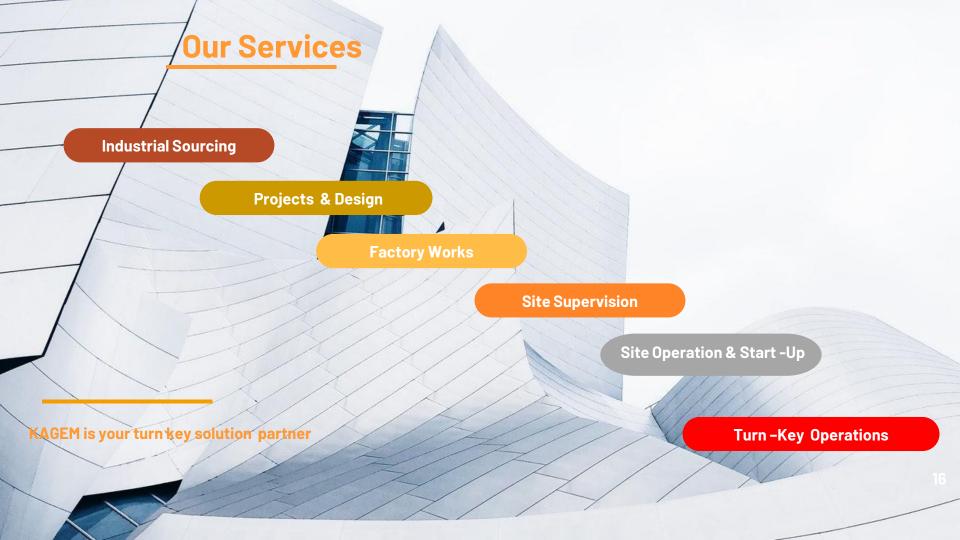
INDUSTRIAL SYSTEMS: These sectors are mostly dedicated construction activities and industrial purposes equipments; storage and cryogenic tanks and piping systems and start up operations etc.

Main Sectors

Our company's activity







INDUSTRIAL FACILITIES

Wide Range of Sectors

KAGEM Industry; It serves large industrial sectors such as power plants, refineries, petrol and gas storage and process plants, mining plants, petrochemical and chemical plants, air separation plants, acid process plants, starch and glucose plants, and iron and steel plants.

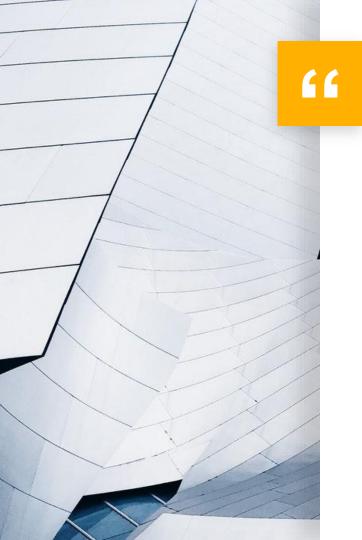




Comprehensive EPC and Revision Services

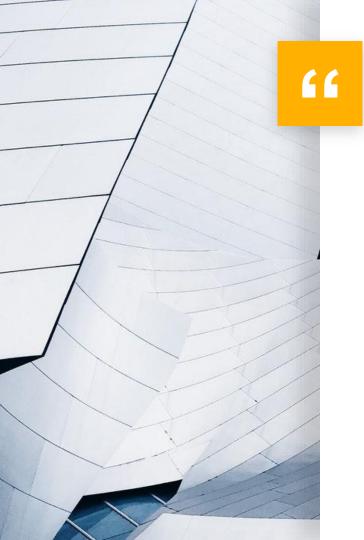
KAGEM Industry; specializes in equipment, tanks, steel, piping, electrical and instrumentation installation in industrial facilities.

- Turnkey Engineering
- Build
- Equipment Supply
- Technical Purchasing
- It can provide complete contracting services by combining field installation services.



Equipment and Instrumentation Assemblies

Field assembly of process equipment; steam and gas turbines, steam boilers, heat recovery steam generators, waste heat recovery units, auxiliary boilers, compressors, turbines, generators, pumps, tanks, pressure and atmospheric containers, drums, towers, chimneys, heat exchangers, modular units, installation and erection of cooling towers, all electrical equipment and systems and similar equipment.



EQUIPMENT OR PLANT MOVING AND REVAMPING SERVICES

KAGEM provides during a relocation or place to place transportation Project

- Match marking of mechanical, electrical and piping parts
- Decommissioning of existing machinery including removal of services and disconnection of electrical and mechanical connections
- Removal of walkways, access platforms and other infrastructure
- Removal of Anchorage
- Dismantling of machinery including method of statement the process and marking components if re-assembly is required at a later stage

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EQUIPMENT OR PLANT MOVING AND REVAMPING SERVICES

- Additionally here is scope of KAGEM
- Packing machinery depending on transport requirements
- Heavy lifting to remove machinery utilising our fleet of cranes, hydraulic gantries, forklifts, versa lifts and twin lifts etc
 - lifts etc

 Removal and loading onto
 transportation as necessary
- Transportation to its new location both nationally and internationally including managing any road permits etc





Field Tanks and Piping

Manufacture and installation of lines in field tanks and process piping, auxiliary facilities piping, power plants piping systems, field piping.

Steel Structure Assemblies

Manufacturing of process units, pipe carrier structures, pipe and equipment supports and field assemblies.



Fire Protection Systems

KAGEM's mission is with design; national and international standards (NFPA - UL - FM) continues its field and project activities. Among the proposed services;

- Fire Protection / Engineering
- Automatic Fire Extinguishing Systems
- Fire Detection and Alarm Systems
- Air Sampling Smoke Detection System for High Precision
- Sprinkler System and Pump Station

To be done again; renewal of the existing; maintenance and Gas leakage test and inspection tests are also included.



Vacuum-insulated Cryogenic tanks are produced to transport storing gases in the liquid phase.

- •Liquefied Nitrogen (LIN),
- Liquefied Oxygen (LOX),
- •Liquefied Argon **(LAR).**Tanks are designed to maintain temperatures of lower than 196 °C

cryogenic tanks, which can be produced vertically and

horizontally, can be used for industrial purposes

Cryogenic fixed tanks are designed for the storage of cryogenic liquefied gases under pressure for a long time. The inner tanks of medium high-pressure liquid gas storage tanks are made of cold-drawn austenitic stainless steel. These



RELIABLE PARTNER



Your benefit at a Glance

- Extensive industry knowledge and market intelligence within the Industrial arena
- Production and Engineering background of best practices
- Scalable solutions across all Industrial segments and supply chain stages, tailored to your individual needs
- Innovative approaches and concepts that help you to increase productivity and/or service quality
- Integrated approach with global standards and competencies across all modes (EN -ASME - AD MERKBLATT- CE certificate etc.)



MACHINING CAPABILITIES



Machining

MACHINE	YEAR	CAPACITY
CNC MILLING (DMG MOORI)	2022	8 " Ø 480
CNC VERTICAL MACHINING	2022	1200 x 600 mm
NC MILLING	2022	Ø 870 x 3000 mm
CNC MOLD GANG SAW	2022	1500 x 330 mm
VERTICAL DRILLING	2022	Ø 32 mm 650 mm
AUTO BAND SAW	2022	470 x400 mm

MACHINING PARTNER



CNC METALBREITUNG - TAIVAN -2022

- ☐ FANUC PROFESYONELLE SERIES BEIDENFIELD
- ☐ SPINDLE DREHUNG: 10000 RPM
- \square SPANABNAHME : X=1100 Y=600 Z=600
- 24 SETMAGAZINE



MACHINING PARTNER



CNC DRECH MACHINE - KOREA-2022

- ☐ FANUC PROFESYONELLE SERIES BEIDENFIELD
- 8 INCH REVOLVER KOPF
- MAX REVOLVER KOPF SCHALTSTELLUNG: Ø280MM
- MAX REVOLVER KOPF LANGE : 300MM
- MAX ABMESSUNG : Ø480MM
- MAX DREHUNG : 4500 RPM



MACHINERY AND PROCESS LINES



Machine and Line Assemblies

Customer demands, in your industrial facilities;

Layout (line) changes

Dismantling of lines and facilities at home and abroad; project activities including numbering and packaging

robotic applications,

Maintenance and repair solutions

Process-specific automation systems

It will provide solutions to your needs.





OUR CERTIFICATES





ISO 9001 : 2015 EN 10901- EXC 4

OUR CERTIFICATES



CERTIFICATE

TÜV NORD Turkey Teknik Kontrol ve Belgelendirme A.Ş.

Quality requirements for fusion welding of metallic materials

EN ISO 3834-2

Manufacturer/production facility

KAGEM Çevre Enerji ve Endüstriyel Sistemler A.Ş. Ayşe Bacı mahhallesi , Bursa Balıkesir yolu sok. No: 430 6 Eylül / BALIKESİR

EN ISO 3834-2

Standard: Scope:

Steel Components and Structures, Welded Productions, Technological Productions, Pressure and Cryogenic Tanks, Crane and Lifting Equipment

Certificate No: CR-TUVNORD-2023/0160-R00

Report No: RP-CR-TUVNORD-2023/0159-R00

Certificate start date: 15.09.2023 Certificate expiry date: 14.09.2026

The company is using a quality assurance system, technical equipment, qualified personnel and procedures for joining processes for manufacturing and testing of welded products.

Istanbul, 15.09.2023

See Annex 1



TUV NORD

Annex 1

TÜV NORD Turkey Teknik Kontrol ve Belgelendirme A.Ş.
EN ISO 3834-2

Scope of certification

Welding process according to EN 4063	Base Material acc.to CEN ISO/TR 15608	Joint Type	Approval Range of Thickness
111	1.1 / 1.2	BW / FW	0.5-100mm
135	1.1 / 1.2	BW / FW	0.5-100mm
141	1.1/1.2 / 8.1	BW / FW	0.5-100 mm
121	1.1/1.2/8.1	BW	0.5-100mm

Responsible Welding Coordinator

Name Surname	Birth Place	Birth Date	
Akın DEMİR	Van	01.07.1981	

Deputy welding coordinator

Birth Place	Birth Place	Birth Date

Certificate No: CR-TUVNORD-2023/0160-R00

Certificate start date: 15.09.2023 Certificate expiry date: 14.09.2026

Istanbul, 15.09.2023

(Rev.23/09/22)



TÜV NORD Turkey Teknik Kontrol ve Belgelendirme A.Ş.

In case of continuous autherence to the requirements of the standard and certification agreements the certificate remains valid until the date specified above

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ISO 3834-2



OUR CERTIFICATES



NFPA COMPANY MEMBER CERT.



LEGAL PERSONNAL ADEQUACY TRAINING CERT.

ENGINEERING STANDARDS





EPA

ASTM

EURO CODES











QUALITY AND PERSONNEL COMPETENCIES

The competencies of the personnel within our structure are qualified from accredited institutions in accordance with the legislation.

EN 9606 -1 WELDING STAFF CERTIFICATION

EN 15609 -1 WPS - WELDING PROCEDURES

EN 15614 -1 WPOR - APPROVED WELDING QUALIFICATIONS

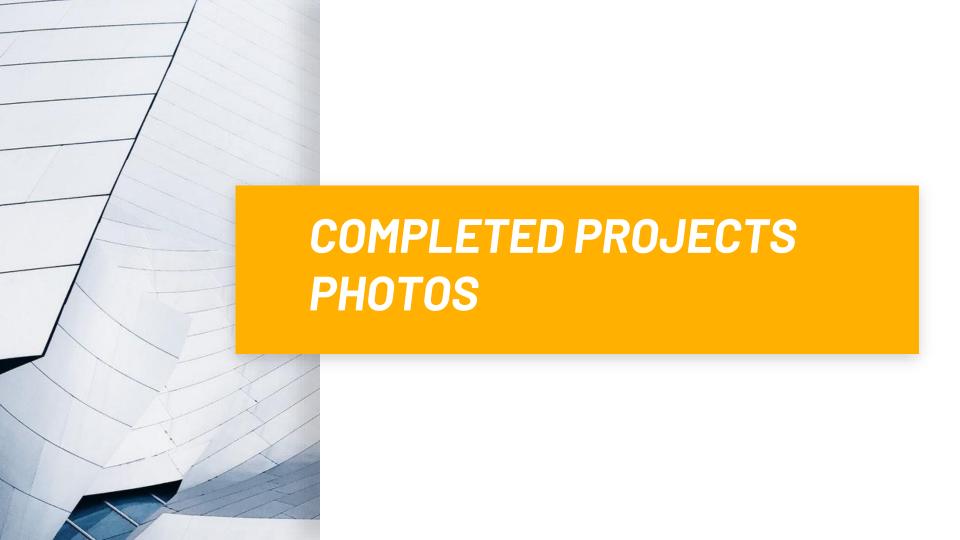
MEB VOCATIONAL QUALIFICATION DOCUMENTS

ISG OCCUPATIONAL SAFETY EXPERT (A-B-C)

EWE WELDING ENGINEER

NDT INSPECTION PERSONNEL (VT- UT-MT-PT Level II)

QUALITY ISO 9001 – ISO 3834-2 – EN 1090-1 Exc 4



1.RDF SOLID WASTE RENEVATION - MONTAGE & & COMM.

















2.PROCESS PIPING

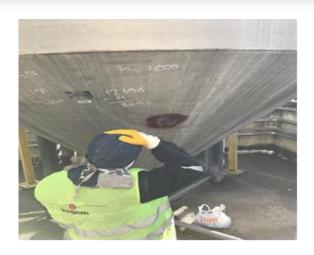






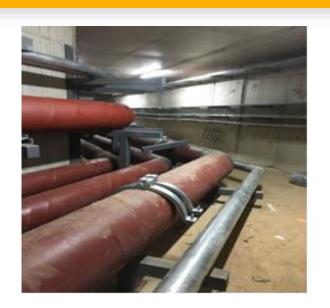
3.CRYOGENIC GAS TANK INSTALLION AND PIPING

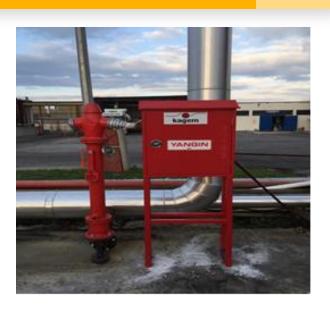






4. FIRE FIGHTING SYSTEM PIPING AND INSTRUMENTS







5.FIRE FIGHTING SYSTEM PIPING AND INSTRUMENTS-II



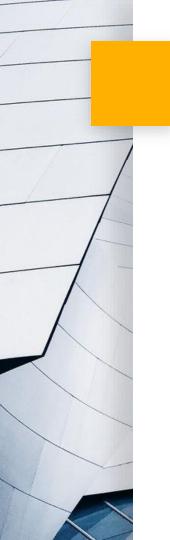


















Cooling Water Circuit Field Application

Fire Pump Panels (UL / FM Certified)



6.FIRE FIGHTING SYSTEM PIPING & INSTRUMENTS -III











Insulation and Piping



Tank and Insulation



Serpentine Manufacturing



7.REFERANCE AT E+PC







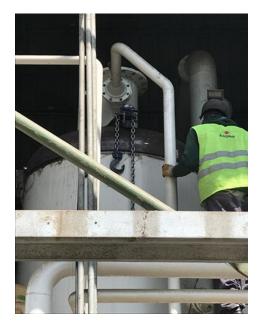












Cap Exchange



Instrumentation



Nitrogen Tank Revision

8.REFERANCE AT CIVIL CONSTRUCTION









HYDROGEN PLANT





OIL WASTE STORAGE BUILDING







9. REFERENCE AT FOOD PROCESS (HYDROGENIZE MARGARINE)







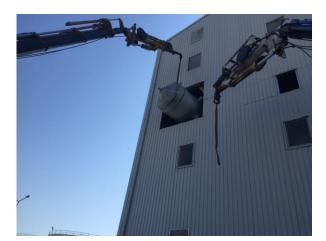








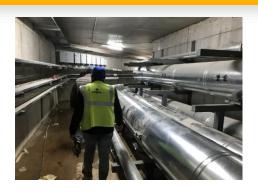








10. ELECTROMECHANIC DISPLACEMENT OF PIPELINE AT METRO CIVIL CONSTRUCTION











11. LIN -LOX CRYOGENIC TANK AND EVAPORATOR PRODUCTION

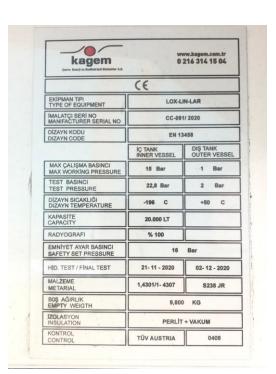
















12. FLUID BED -WASTE GAS SYSTEM REVISION AND DRUM PRODUCTION







Waste Gas System Revision









Fluid Bed Boiler Revision

Pressurized Drum with CE marked



13. LINDE-ILGAZ COLD BOX STRUCTURAL REPAIR









14 SHW BIOMASS PLANT'S EQUIPMENTS







14 SHW BIOMASS PLANT'S EQUIPMENTS









REFERENCE AT SEVERAL SECTORS

































REFERENCE AT SEVERAL SECTORS







































REFERENCE AT ENVIRONMENTAL AND ENERGY SYSTEM

















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