



EK ENGINEERING

Manufacture | Projects | Trade



COMPANY PROFILE

2021

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Profile

EK Engineering was established in 2016 by Electrical Engineer from IIT-BHU. It started with vision to design, manufacture products for human and plant safety & control automation. Slowly, over the years, the organization transformed itself into reliable and fastest growing manufacturer and supplier for multi-diversified product and systems for detection and controls in commercial and industrial application.

EK Engineering is an ISO 9001:2015 certified organization and operates under following division umbrella:

- **Manufacturing division**
 - ❖ Gas & Flame detection and control system
 - ❖ Electrical and automation control panels
 - ❖ Parking management and guidance systems
- **Project Division** – undertakes design, install, integrate and commissioning of
 - ❖ Gas detection, control and automation system in commercial and industrial segment incl. automobile, oil & gas etc.
 - ❖ Building & industrial ventilation
 - ❖ Parking management, guidance and booking system
- **Merchant Trade / Export Division** – deals in supply of products and equipment related to:
 - ❖ HVAC, MEP, building construction
 - ❖ Safety and security
 - ❖ Engineering goods

Industries Served



Certifications:



CLIENTS:



DENSO

Crafting the Core



JAIPUR SMART CITY LTD.

जयपुर स्मार्ट सिटी लिमिटेड



भारतीय विमानपत्तन प्राधिकरण
AIRPORTS AUTHORITY OF INDIA

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AIRPORTS AUTHORITY OF INDIA



CAREL



LODHA

BUILDING A BETTER LIFE

Zydex
Innovating for Sustainability



Motherson Sumi
Systems Limited



Shapoorji Pallonji



SIEMENS



NORTHERN
TRUST



CLIENTS:



United Technologies
turn to the experts

Bloomberg



Bennett, Coleman & Co. Ltd.



Honeywell

THE POWER OF **CONNECTED**



Oriental Carbon & Chemicals Limited

Coca-Cola



TATA CONSULTANCY SERVICES

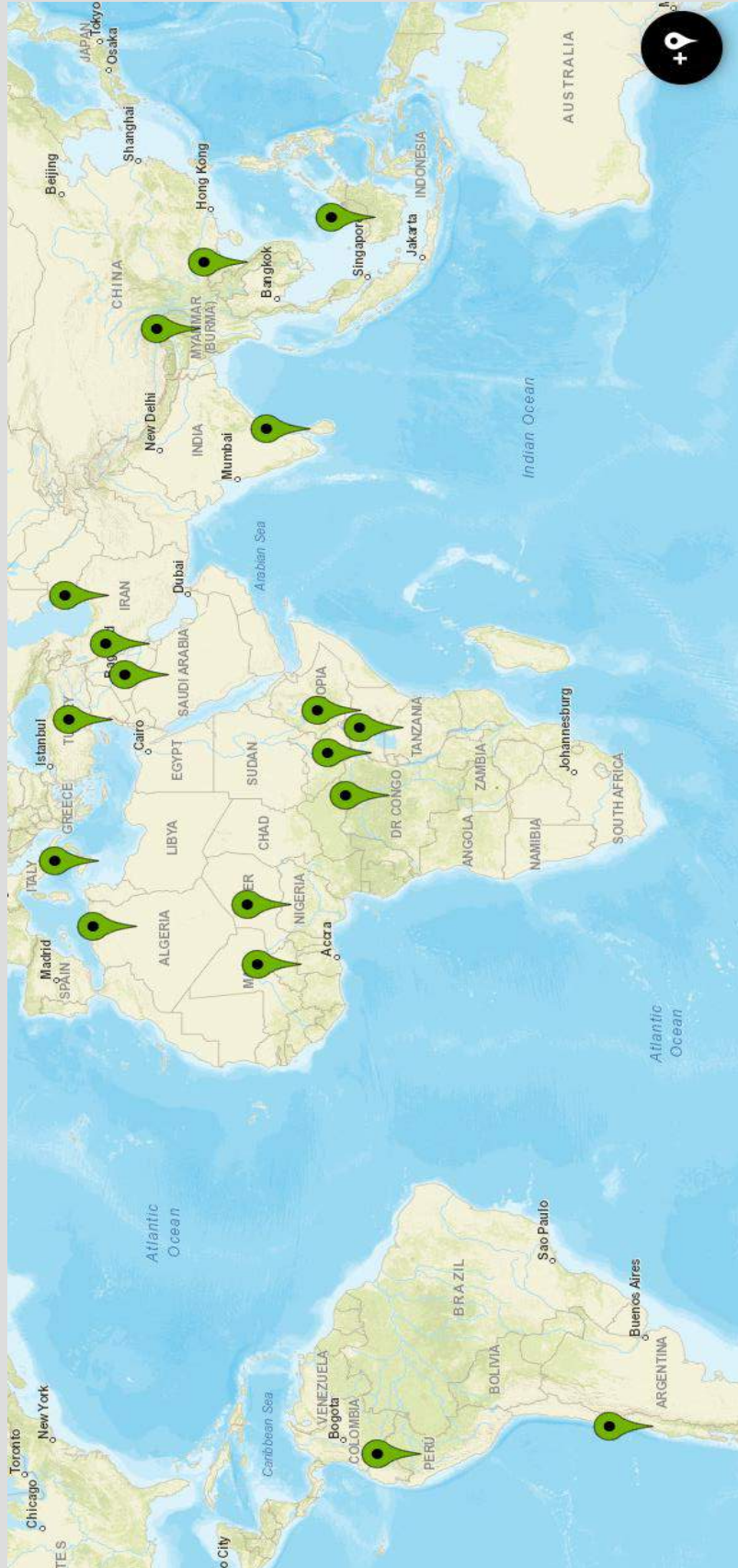


Hero



ATOTECH

Export Reach



Manufacturing:

At EK Engineering, we deploy our expertise in manufacturing of high accuracy, reliable and industrial grade instrumentation and control systems, through our brand ***“SmartSensor”***.



We, also design and manufacture as per application and customer requirement for OEM purpose.

We follow strict process and guidelines in all our manufacturing process, right from raw material and component procurement to testing and dispatch. Our Company is an ISO 9001: 2015 for quality control. Our Products are CE complied.

Our Manufacturing product line includes:

- Toxic, flammable, oxygen gas detectors
- Electrical & Control Panel – PLC, VFD, DDC Panels
- Process and BMS instrumentation
- Parking detection, guidance and booking system

We also design, manufacture and integrate complete system for:

- Gas & Flame Detection and control / alarm system for commercial and industrial projects.
- Vehicle parking detection, guidance, fee collection and online booking system
- Underground / basement / Industrial ventilation and automation system
- Process control & automation system

Our products and systems find application in all industrial and commercial segments including oil & gas, power, mining, chemical, pharmaceuticals, building, warehouse, food processing and so on.

Gas Detection

Toxic, Flammable Gases

We design, manufacture high accuracy, reliable gas detectors for commercial and industrial applications. Our production includes gas detectors in both portable / battery operated and fixed online type. These gas detectors are BMS / SCADA compatible and used for plant and human safety.

Our gas detectors are designed for:

- All toxic gases including CO, CO₂, H₂S, Ammonia, Freons etc.
- All flammable / explosive gases including methane, VOC, LPG etc.
- Oxygen and inert gases

The gas detectors / sensor transmitters are ATEX/ PESO, CE certified, suitable for installation in explosion proof area. Other features include jumper selectable analog output (0-10V / 4-20mA), LCD Display, on-board relays, RS485 Modbus RTU digital communication, UL listed sensor, BMS / SCADA / PLC integration compatibility.



Sensors / Instrumentation

Industrial, Building, Commercial

With our state-of-art manufacturing and testing facility, we offer sensor transmitter, switch for following parameters for commercial applications:

- Differential pressure – air, water, liquids, oil, hydrocarbon
- Pressure – air, water, liquid, oil, chemical, hydrocarbon
- Temperature – air and liquids
- Humidity
- Flow switch – air and liquids

We also manufacture motorized / control valves for water, liquid applications.

All products follow stringent manufacturing and testing process, and are CE complied.

Instrument type / output includes:

- Transmitter output / RS485 Modbus compatible
- Switch output
- Gauges



Automation & Electrical Panel

PLC, VFD, MCC, PCC, BMS

Control & automation design is one of our forte. We design and manufacture control panels based on PLC / DDC / SCADA / BMS, completely customized to suit control and application requirements.

We offer control panels, independent or combination, as follows:

- PLC / DDC Panels
- VFD / VSD Panels
- MCC (LT / HT) Panels
- BMS System

We manufacture panels following applicable electrical and control standard with state-of-art CNC machine, durable powder coating process.

We tested each outward panel for applicable HT / LT power supply, earth faults, overvoltage, insulation / resistance test etc. Proper and stringent test ensures high on-field performance of each control panel.





Industrial & Building Ventilation & Automation System

Apart from undertaking EPC projects for gas & flame detection & control system, we also design, execute projects and system for industrial and commercial ventilation including underground car parks, factory / process facility ventilation, toxic air filtration / suppression system.

Projects includes right from ventilation conceptualization, design, fabrication, integration to testing and commissioning. We have successfully executed various projects including for smart cities, chemical plants, warehouses, commercial building, malls / shopping complex, theatre / multiplex etc.

These systems are completely automated, without manual intervention, reliable, Energy efficient and demand controlled based on various climate / health / defined parameters.

Ventilation system design includes both ducted and ductless system, with feedback control mechanism.





Parking Management System

With ever increasing urbanization, there is always need for better and efficient traffic / management system. Smart parking management system not only alleviate vehicle congestion on road, but also reduce air & sound pollution, energy consumption etc.

EK Engineering offer “**SmartPark**” smart parking management and guidance system which:

- Automate vehicle inbound and outbound access control
- Automatic vehicle details capture and fee ticket generation
- Smart parking slot guidance system from entry to exit
- Cashless fee collection
- Online / mobile based parking slot booking system
- Secure parking alert facility
- Remote monitoring of single / multiple parking area

SmartPark can be implemented in above ground / underground, new or retrofit parking area. It is scalable, easy and fast implement, cost-effective, Energy efficient.



Merchant Trade Division

With our merchant trade & export division, we deal in export and trade for products and equipment used in following areas:

- Air ventilation and distribution products
- Air-conditioning equipment and accessories
- Engineering goods for industrial, building construction, material movement etc.
- Mechanical products, equipment, machineries
- Electrical equipment, Panels and accessories
- Process and climate control products
- Control, Automation products and switchgears
- Metal, pipes and allied products
- Safety and security products E.g. Fire, personal protection etc.
- Special machinery and products

We supply products and equipment to domestic client all over India, as well as to international buyers from African, Middle East, Far East Asia, Latin American, Caribbean, European countries.

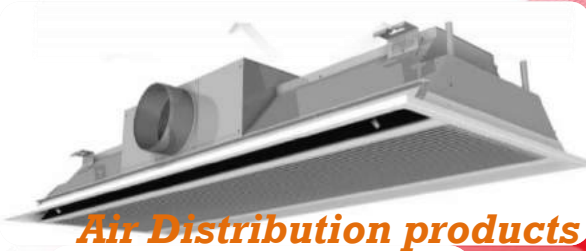
AIR VENTILATION & CONDITIONING



Fans & Blowers



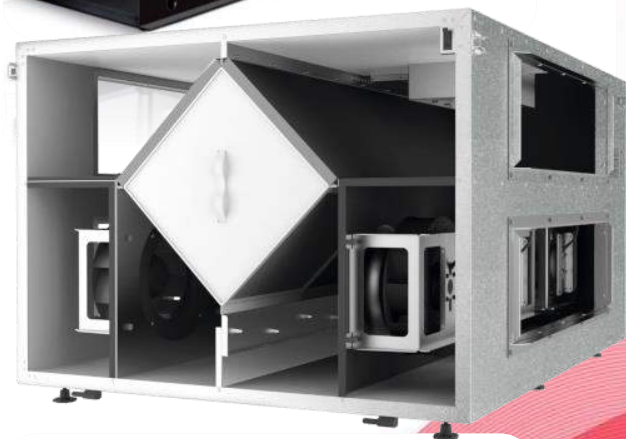
Dampers & Louvers



Air Distribution products & Filters



AIR VENTILATION & CONDITIONING



AHU , Air Washer, Scrubbers



Axial Fans/ Blower	Bag Filters	Industrial Fans	High Temperature Fans	ADP Products
Air Purifier	Blower Coils	Jet Fans	HVLS Fans	Pre-Fabricated Ducts
Access Doors / Panels	Cabinet Fans	Expansion Valves	Fire & Smoke Dampers	Fume Hoods
Fan Coil Units	Centrifugal Fans	Fan Filter Unit	Inline Fans	Heat Exchanger
Air Curtains	VAV Diffusers	Fan Section	Scrubbers	Tunnel Dampers



AIR-CONDITIONING & REFRIGERATION



Ducts & Insulation

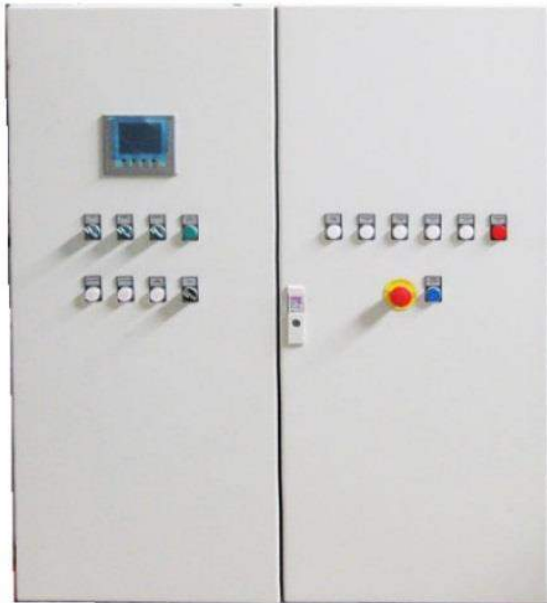
VRF, Chillers & Compressor

Pipes and fittings

VRF / VRV / Chillers	Air-conditioners & Accessories	Evaporative Air Coolers – direct, indirect	Air Washer
Air Scrubbers	Heat recovery system	Cold Rooms	Blast Freezers
Access Panels	Insulation – Acoustic, Thermal	Chilled Beam	Air Handling Units
VAV Diffusers	AHU/ FCU / TFA	Tubes & Elbows	Valves & Actuator
Refrigerators	Expansion Valves	Humidifier	Strainer



ELECTRICAL EQUIPMENTS



HT / LT Panels	Variable Frequency Drives	MCC / PCC Panels	PLC Panels
BMS / SCADA	VFD Panels	Electrical Switchgears	Generators
Lights & Fittings	Pump & Motors	Measuring & Testing Meters	Electrical & Control Cable
Transformer	Automation System	Electric & Pneumatic Actuator	Energy Meter

SAFETY & SECURITY :



*Toxic /
Flammable
Gas Detection*



*Fire & Flame
Detection*



Toxic and Flammable Gas	Gas Control Panels	Air Quality	Flame detectors
Fire Alarm system	Alarm Accessories	PPE Instruments	Fire System Accessories
Fire Panels	Fire Pumps	Scrubbers / Absorption Cartridges	Filters



INDUSTRIAL & AUTOMATION SYSTEM



Pressure



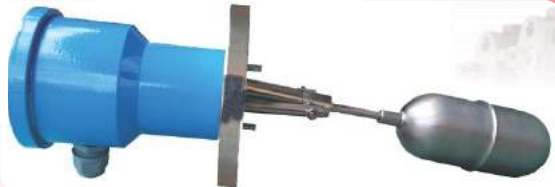
Temperature



Flow



Level



Pressure / Differential	Flow	Temperature	Level
pH / TDS / EC	Velocity	Energy	Weather
Air Quality	Humidity	Density	Motion

ENGINEERING PRODUCTS / SYSTEMS



Engineering Goods	Regulator	Metal Sheets & Pipes	Air Separator
Doors / Barriers	Bush & Bearings	Control Valves	Reducers
Fork Lifts	Elbows & Fittings	Hand & Power Tools	Nozzles
Seals & Gaskets	Wire & Cables	Tanks	Nut & Bolts


CONTACT US:

EK ENGINEERING

HQ: NEAR VYAS PUBLIC SCHOOL,
PURANI GINANI
BIKANER (INDIA)
ZIP CODE 334001

EMAIL: india.eke@gmail.com
sales@ekeindia.com

WEBSITE: <https://ekeindia.com>
MOBILE / CONTACT: +91-96809 66000 (INDIA)

 WhatsApp: +91-96809 66000 (INDIA)

 WeChat: ekeindia

 Skype: ekeindia

 LinkedIn: [ekeindia](#)

 Twitter: [indiaeke](#)

 Facebook: [ekgindia](#)

 Instagram: [ekeindia](#)

OUR REPRESENTATIVE:

