

# ARKEN<sup>®</sup>

## JENERATOR

*Life Goes On...*

GENERAL CATALOG



Discover  
the potential

# MISSION AND VISION

Arken was established in Arnavutkoy - Istanbul with 100% Turkish capital to produce, export sales and after sales operations in the generator industry.

## OUR MISSION

To be a company that creates value for our country and to all of our stakeholders . To provide permanent and sustainable customer satisfaction in sales and after sales services starting from the production stage.

To respond rapidly to the special needs of our customers with technological and innovative solutions. To become a leading company in our industry by means of meeting the customers' needs promptly with technolocigal and innovative solutions

## HEADQUARTER

Haracci Mah. Dolmabahce Cad. No:22  
Arnavutköy / ISTANBUL / TURKEY



## ISTANBUL DISTRICT OFFICE ANATOLIAN SIDE

Cumhuriyet Mah. Nuru Sk. No:31  
Uskudar / ISTANBUL / TURKEY



## DISTRICT OFFICE AEGEAN

Atif Bey Mah. Akcay Cad. No: 274/2  
Gaziemir / Izmir / Turkey



## DISTRICT OFFICE ANKARA

100. Yıl Bulvarı 1230 Sk. No:2  
Ostim / Ankara / Turkey



## DISTRICT OFFICE MEDITERRANEAN

Akkuyu Mah. Anadolu Cad. T Bilginer Apt.No 142/B  
Antalya / Turkey



## DISTRICT OFFICE SOUTH EAST

Mücahitler Mah. 52017 Nolu Cad.No:1-F/6  
Şehitkamil / Gaziantep / Turkey



# QUALITY POLICY

To apply and implement Total Quality Management in every step, from the supply stage up until the final stage of reaching to the customer.

To create long term associations with our previous and new customers.

While taking all safety measures, we give utmost attention to our employees' personal and professional development.

In our investments and activities, we consider all of our stakeholders' interest at the highest level.

We are always in line with the "Social Responsibility Principles".

We aim to leave a clean environment for the future generations.

## PRODUCTION AND DEVELOPMENT

In our 14.000 m2 indoors production facility, all necessary components are manufactured in accordance with ISO 8528 standards.



## WE HAVE

- TS EN ISO 9001-2008
- TS EN ISO 14001-2004
- OHSAS 18001: 2007
- TSE
- CE MANUFACTURING COMPETENCY
- TSE-HYB
- WARRANTY DOCUMENT
- AFTER SALES SERVICE
- QUALITY DOCUMENT
- GHOST CERTIFICATES

Arken Jenerator, believes in the power of technology and innovation, and taking customer needs into consideration, follows the most advanced technological developments by renewing its production techniques continuously and adding new equipments. For generator sets, all the cabin and chassis materials are manufactured with high precision press brake equipments in house.

In the canopy & container special acoustic design and sound attenuation measures are taken at the suction and discharge points. All these operations are carried out by our highly specialized engineers.

Our "Quality Management System" policy and strength analysis, inwards QC tests and gas welding applications are carried out within the framework of quality standards.

In addition to this, CNC PUNCH with 1500x3000 table size and cutting of canopy and chassis materials are done by Arken Jenerator.



The canopy are painted with environment friendly, durable electrostatic lead powder paint and polyurethane wet paint both passed 500 hours salt test.

# OUR SOLUTION PARTNERS



# WHY ARKEN®?

**In all our products,  
we reflect our  
20 plus years of  
experience in  
genset industry.**



- From the supply stage to the end user, we use "Quality Management Systems".
- We are able to carry out custom tailored engineering for special projects.
- Production and Development is very important for us. We utilize the power of innovation and technology.
- We ensure that all of our components comply with ISO 8528 standards and international standards.
- We are result - oriented, proactively working company. We use quality and safety principles in all of our projects
- We provide "7/24 Call Center Service" for emergency situations.
- We have original spare parts stock for all our products.
- We give attention to the needs and shortcomings of our costumers with our specialized staff to provide a trouble free services
- We offer you the silence that you need at maximum quality with the sound insulation canopy 74db(A).
- We are always at your service with our quality and reliable after sales service.

# OUR SERVICES

Arken Jenerator, which takes the road with mutual trust and sustainable service policy, provides you long-life and

economical solutions with its experienced and friendly professional sales team.

- TECHNICAL CONSULTANCY
- SUPERVISION
- EXPERT INSTALLATION
- DEMOUNTING
- PERIODIC CHECK UP
- WELL TRAINED SPECIALISTS
- ORIGINAL SPARE PARTS

- FAST DELIVERY
- LOAD TESTING
- MOBILE LOAD BANK
- 7/24 FAST AND SAFE
- EMERGENCY TECHNICAL SUPPORT
- SERVICE SUPPORT



# OUR SOLUTIONS

Based on the needs of our clients, we provide custom tailored solutions.



## MEDIUM VOLTAGE GENERATORS

Medium (MV) or High Voltage (HV) power generation is typically used where the power rating causes current at Low Voltage (LV) to exceed practical limits. In a practical sense, this occurs when the system capacity exceeds 4000 amps or more. It may also be desirable when power must be distributed to the points at a significant distance from the generator set.

Single generator rated at above 2.5 MVA and paralleling generators rated at above 2 MVA are good examples of equipment that is commonly considered for MV applications. MV alternators are not economical nor practical at less than approximately at 1000 kW. At levels less than 1000 kW, it is probably desirable to consider the use of a low voltage machine with a step up transformer when designing an MV or HV installation,

In the generator systems where the medium voltage alternator is used;

- Conduction losses and voltage drop are reduced.
- The productivity of the distribution system is increased.
- Installation and maintenance costs are reduced.
- Since there is no need for bulky cabling, both the image is intact and the safety is increased.

In Arken Jenerator, such technical infrastructure and engineering projects are taken seriously and after the detailed analysis and evaluations are made, project planning phase is started. As an example of Medium Voltage Generators, prime 8000 kVA 10000 Volt synchronous diesel generator sets with autonomous working and sound proofed canopy can be given as a backup power source to the network energy used in Anatolian Side Justice Complex in Istanbul which works perfectly.

## PARALLEL OPERATION

In the case where the power of the electrical load is greater than the generator power generated several generators working together as a single generator to meet the load which is called synchronized or Parallel Operation to the electrical load.

The advantages of using lower power engine are;

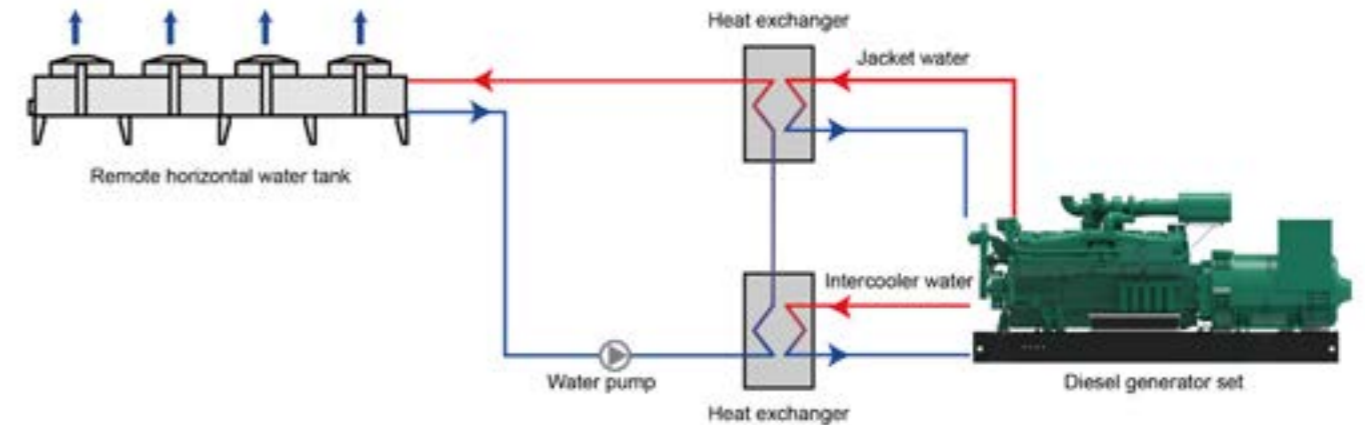
1. Low operating cost
2. Low initial setup cost
3. Low maintenance cost
4. Longer system life
5. Flexible use
6. On safety
7. Easy to find spare parts
8. Faster production and delivery time



## REMOTE RADIATOR GENERATORS

ISO852, a standard that defines operation standards of generators, requires that the declared power on the label should be supplied continuously at the ambient temperature of 25°C. Although the generator radiator is stated as 40°C in the specs, alternator copper losses and heat (30%) emitted by the radiation on the engine and exhaust pipes causes the temperature to go above ambient temperature.

This causes a drop of power on the diesel generator. In order to prevent this power drop, radiator system is moved away from the diesel generator and connected directly to the ambient air suction. Thus, if the radiator is designed for 40°C, it will work at this temperature without any power drop.



## REMOTE MONITORING

Remote monitoring and control system allows reading all operating parameters and alarm information of generator sets without limitation of distance. Control devices communicate with the outer world by ModBus protocol over RS485 and ethernet ports. SCADA or embedded SCADA systems are used for monitoring.

SCADA software is configured to customer needs to work in a desktop computer. Connection with the generator control device is directly via ethernet port or RS485 communication line up to 1250mt. SCADA software can SMS or email in case of failure. SCADA system requires a computer to work, while embedded SCADA system work in a microprocessor device and allows more than one user to connect to the system simultaneously owing to static IP. In case of an alarm, the system informs the preset phone numbers via SMS or sends emails to relevant email addresses.

## SPECIAL CANOPY

Special canopy are offered when it is desired to reduce the dimensions of the canopy or special types of containers are preferred depending on the environment or operating conditions or when the room dimensions are not suitable for standard canopy use.

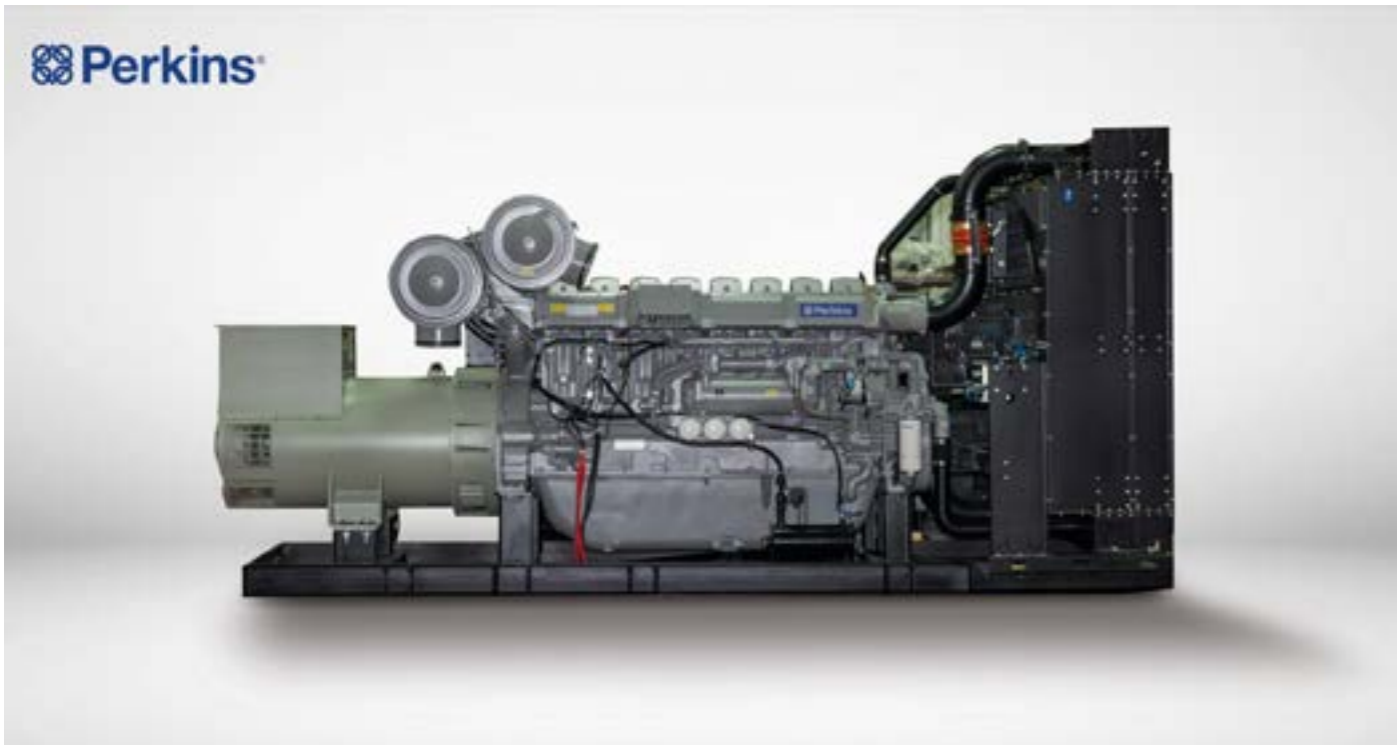


ARK-P GENERATOR SETS

PERKINS SERIES 10 - 2500 kVA

World class manufacturing facility produces the compact yet powerful range of engines which deliver dependable and long lasting power for machine manufacturers end-users

in the construction, agricultural, materials handling and electric power markets.

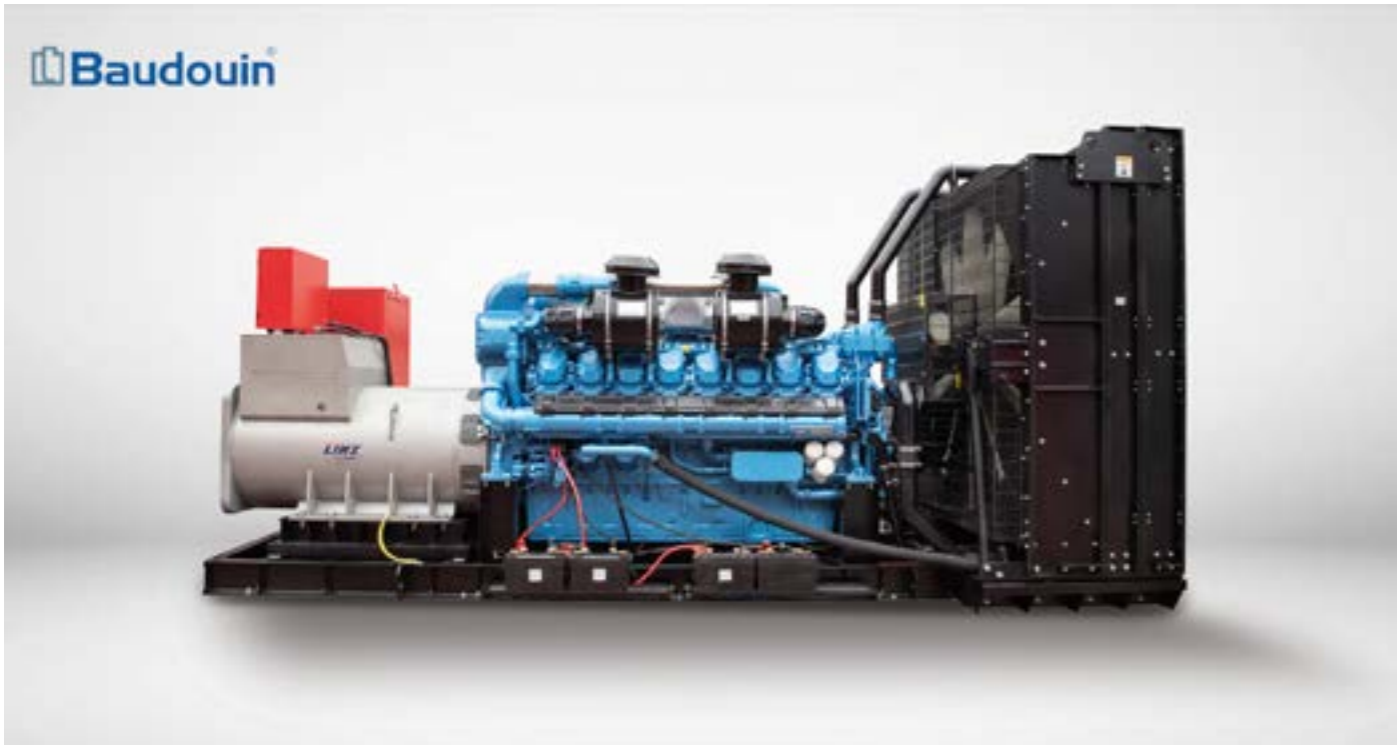


ARK-B GENERATOR SETS

BAUDOUIN SERIES 20 - 2750 kVA

The company's products have strong reliability, good economy, have a long overhaul period, stable performance and ergonomic design . The company focuses on providing

customers with high quality products and services around the world.

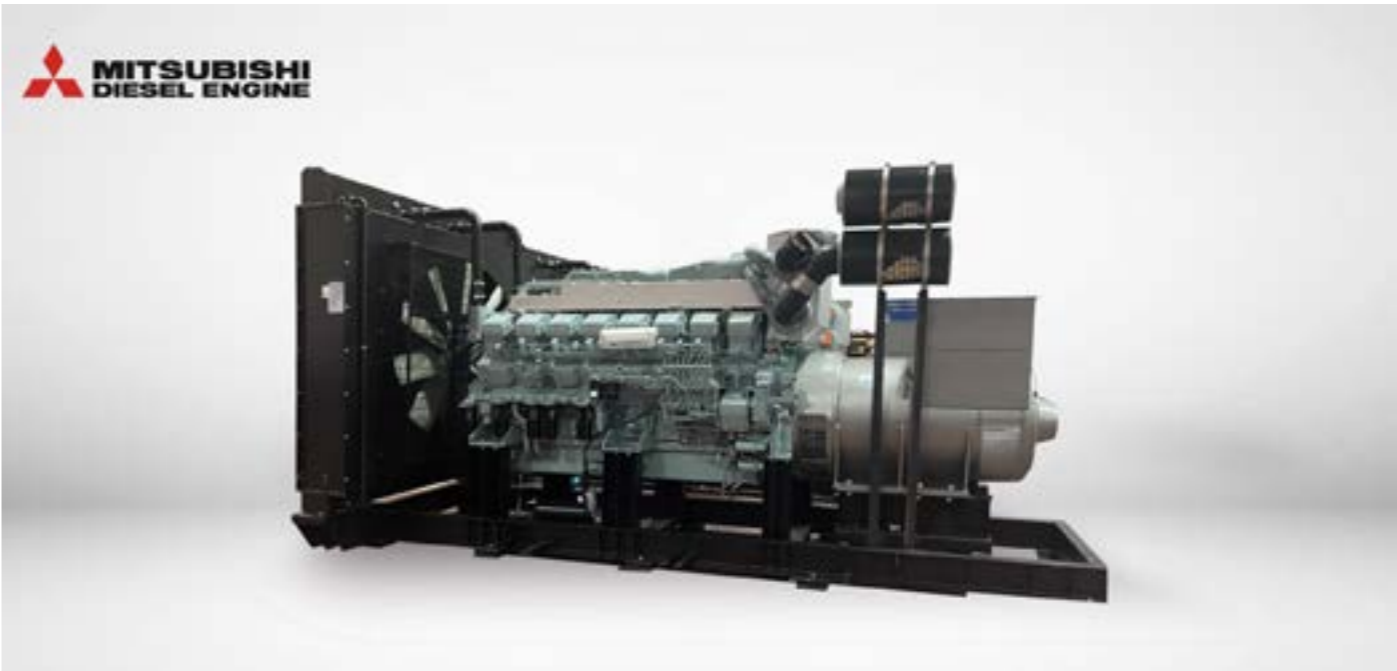


ARK-M GENERATOR SETS

MITSUBISHI SERIES 8 - 2500 kVA

Mitsubishi Corporation is a global integrated business enterprise that develops and operates businesses across virtually every industry including industrial finance, energy, metals, machinery, chemicals, living essentials and environmental businesses.

Based on a very strong multinational Company in every field Mitsubishi also designing and producing very successful Diesel engines for every field including Gensets. Renown for its reliable and effective engines which suits perfectly to your energy needs.

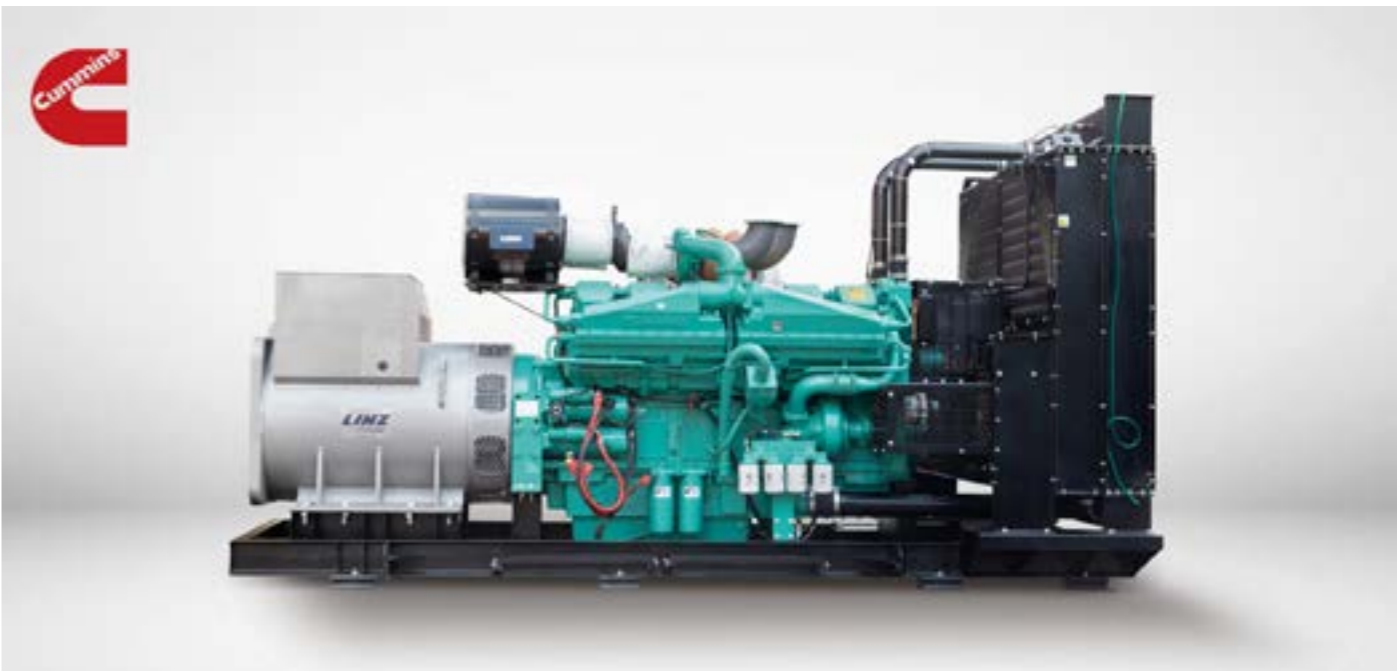


ARK- C GENERATOR SETS

CUMMINS SERIES 28-2500 kVA

Cummins Inc. In 1919, headquartered in Indiana (USA), has been one of one of the leading manufacturers for over a century. The Cummins product range includes hybrid and electric platforms from diesel and natural gas engines, as well as battery systems, fuel systems, controls, air treatment, filtration, emission solutions, and power generation systems.

In addition, Cummins aims to grow further each year with more than 6,000 dealer networks in more than 190 countries to ensure service availability globally.

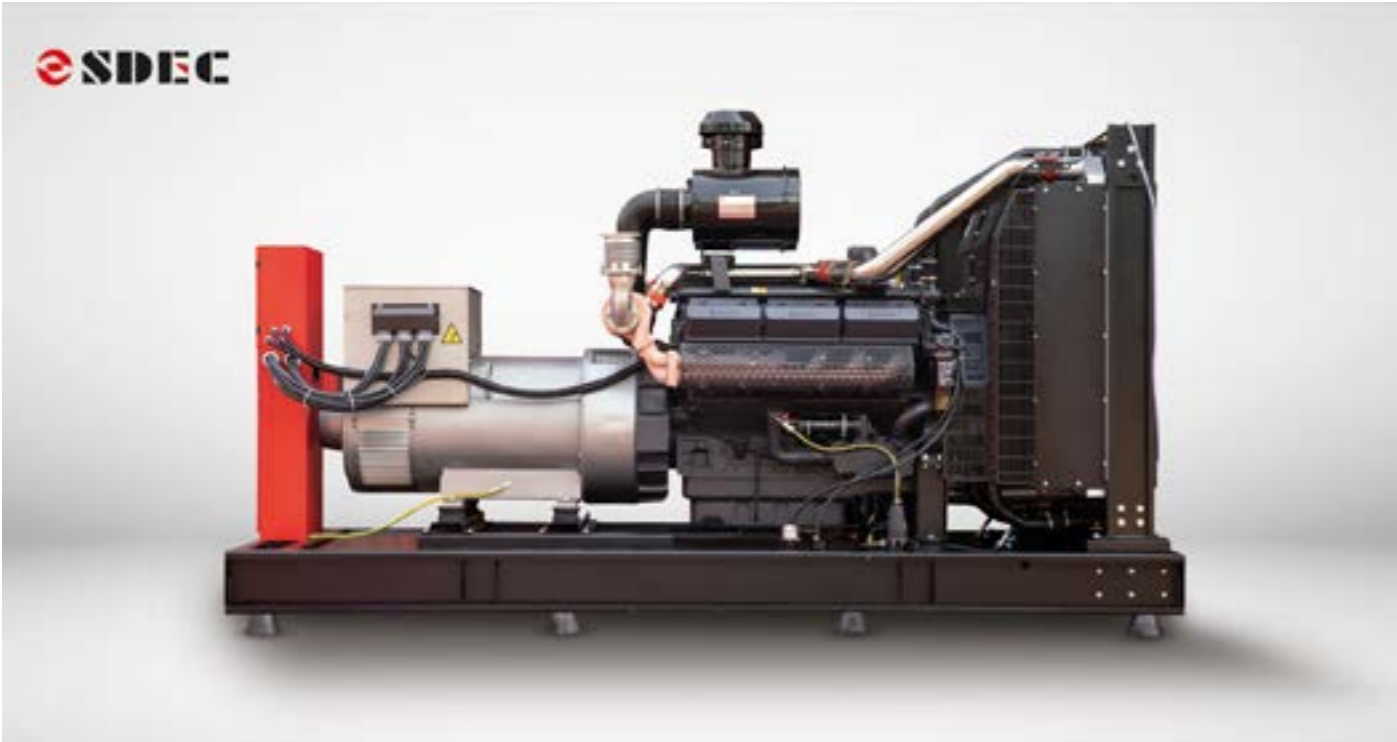


## ARK-S GENERATOR SETS

SDEC SERIES 66-1010 kVA

SDEC manufactures 66-1010 kVA diesel engines with new technology and successfully competes with European and American brands. SDEC engines have been used in Gensets

successfully with 75 years of experience. They are reliable cost effective engines you can trust.

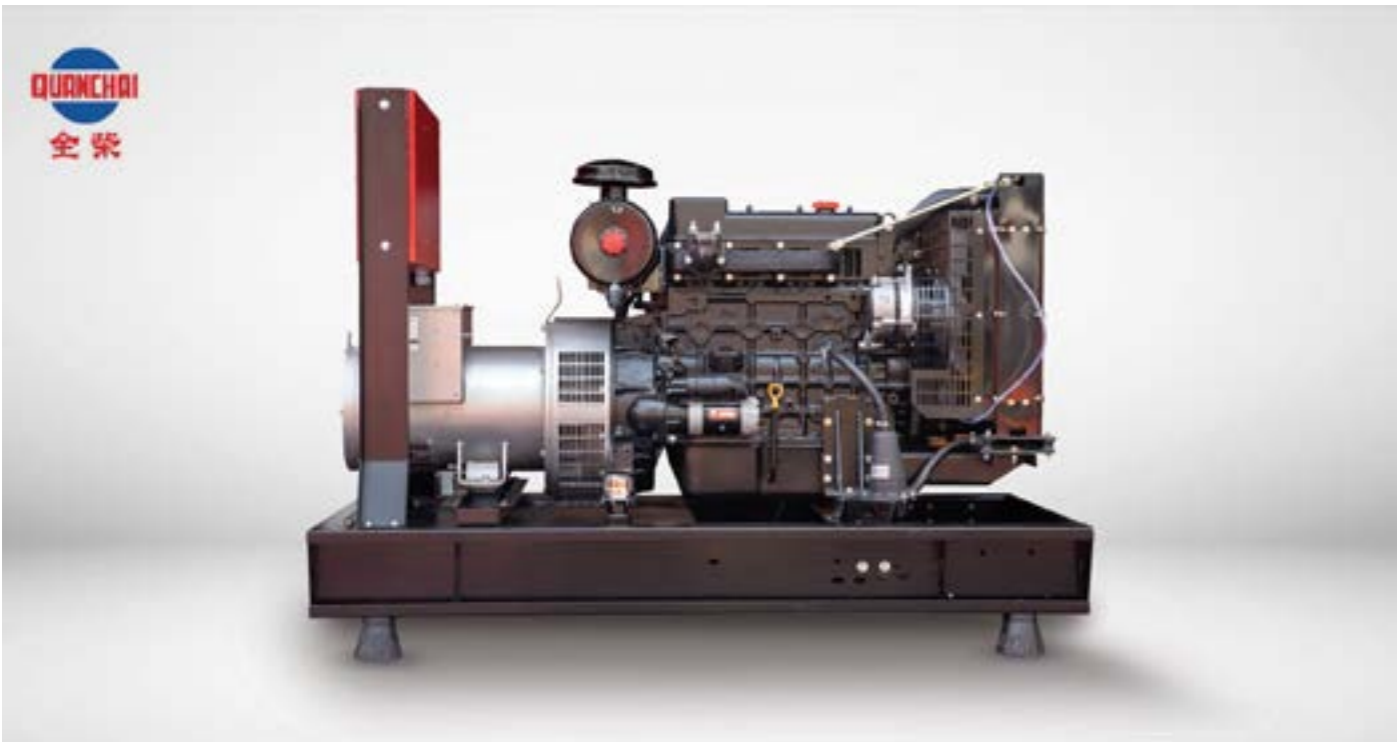


## ARK-Q GENERATOR SETS

QUANCHAI SERIES 12-120 kVA

Quanchai is an engine manufacturer with closed integrated automatic production line focused on technological transformation and innovation, static modeling, EPC production, horizontal vertical conversion processing

center, intelligent robot, AGV and RGV transport, operating on international advanced technology and equipments. QUANCHAI engines offers the latest technology with robust structure at an affordable price.



## PORTABLE DIESEL GENERATOR SETS

To meet the needs of different countries, the range includes models that run at 50Hz and at 60Hz. Their small size also makes them an attractive option for fire services, and the emergency services. They can be carried to areas that are inaccessible to vehicles and light up a field hospital

or be used to supply power to water pumps or to heat portable stoves.

Arken offers 16 different models of portable generators sets ranging from 2 kW to 11 kW. All models run on diesel and have electric start-up. Some models are also run by both manual and electric start-up.



## ARK 700 E MODEL

Trans - AMF

- CanBusJ-1939 ECU communication
- Remote management via USB port and PC software
- Turkish, English, Chinese, Russian, German, Spanish, French .... language options
- 128 x 64 graphics with LCD display
- Built-in buzzer for alarms
- Storage of the last 50 event log and alarm information
- Statistical data recording
- 3 phase network, 3 phase generator voltage, 3 phase load current and earth leakage current measurement

USAGE

AMF/ATS Unit - Remote control - Manual Start Control Engine Control - Remote Imaging and Control Unit - Waveform Imaging (V&I)

- Configurable 10 digital inputs, 4 relays and transistor outputs
- Programmable weekly work permit schedule
- Easy to use with shortcuts and navigation buttons
- User-changeable display messages
- 4 analog resistive inputs can be selected from the program menu
- Patented, easily applicable expansion and communication module structure
- Automatic Generator control and load transfer
- 229 x 152 x 41 mm panel mounting type
- Wide operating temperature of -20 ° C ... + 70 ° C
- Remote monitoring and management...



E-MAIL - GSM - SMS - EXTERNAL MODEM - ELECTRONIC ENGINE MICRO SD MEMORY - USB FLASH MEMORY REMOTE DISPLAY PANEL - PLC - CENTRAL MONITORING EMBEDDED WEB SERVER - PC

# WE ARE AROUND THE WORLD, EVERYWHERE



## OUR EXPORT NETWORK

- Arken Jenerator's quality is preferred not only in Turkey but also around the world.
- As Arken Jenerator, we produce our products in accordance with EU legislation and with CE certificate.
- To ensure all the key components meets our meticulous quality standarts we design and produce from chassis to exhaust in house.
- Our painting facilities are from second to none, we use lead free powder paint and polyurethan wet paint both passed 500 hours salt tests means corrosion free years of service.
- We constantly improve the quality and service of Arken by establishing distributorships in our territories.
- We aim to make our customers feel safe and always able to get full customer support.
- We represent our country with our references and in the exhibitions we participated from Europe to Middle Asia and Africa.



### AZERBAIJAN

- ASAN Service Building
- Diesel Generator Project
- 2 X 550 kVA Synchronous Diesel Generator

### CHILE

- Hospital Project
- 3 X 660 kVA, 825 kVA

### ETHIOPIA

- DH GEDA TOWER
- 720 kVA Diesel Generator Project

### THAILAND

- Hospital Project
- 560 X 560 X 375 kVA
- Synchronous Diesel Generator

### UZBEKISTAN

- Data Centre Project
- 6 X 33 kVA Diesel Generator

### AZERBAIJAN

- Road Side Project
- 2 X 115 kVA, 2 X 155 kVA, 135 kVA,
- 235 kVA Diesel Generator

### RWANDA

- Kigali Business Centert
- 2 X 550 kVA
- Synchronous Diesel Generator

### UK

- Hall Farm Diesel Generator Project
- 12 X 600 kVA Synchronous
- Diesel Generator Project

### IRAQ

- Building Project
- Diesel Generator Project
- 7 X 550 kVA Synchronous Diesel Generator

### RUSSIA

- Sponge Factory
- 725 kVA Diesel Generator Project

### ROMANIA

- Tekstile Factory Project
- 725 kVA Diesel Generator Project

### TURKMENISTAN

- Research-Application Hospital
- 4 X 1650 kVA
- Synchronous Diesel Generator



## HOSPITAL PROJECT

5 x ARK-M 1900 kVA



## DATA CENTER PROJECT

2 x ARK-B 1400 kVA, 2 X ARK-M 2250 kVA



## HOTEL PROJECT

3 xX ARK-B 750



## MALL PROJECT

14 x ARK-B 715



## BUSSINESS CENTER PROJECT

2 x ARK-S 725 kVA



## BUILDING PROJECT

4 x ARK-S 400 kVA, 2 x ARK-S 725 kVA



# INTERNATIONAL FAIRS



- A-Tech Exhibition / Turkey (2019)
- Electricity Expo / Egypt (2019)
- Middle East Electricity / Dubai (2019)
- WIN Eurasia / Istanbul (2019)
- Middle East Electricity / Dubai (2018)
- WIN Eurasia / Istanbul (2018)
- Batimatec / Algeria (2017)
- 21. ELCOM / Ukraine (2017)
- 4. Project Construction / Kenya (2016)
- Electricity Expo / Egypt (2019)
- Batimatec / Algeria (2016)
- Win Automation Fairs / Turkey (2016)
- Middle East Electricity / Dubai (2016)
- Electricx / Egypt (2015)
- The 6th Addisbuild / Ethiopia (2015)
- Elec Expo / Morocco (2015)
- Win Automation Fairs / Turkey (2015)
- Turkmen Spring Construction / Turkmenistan (2015)
- Middle East Electricity / Dubai (2015)
- Gaziantep TUMSIAD Fair / Turkey (2014)
- Elex 3. Fair / Istanbul (2014)
- Johannesburg Electra Mining / G.Africa (2014)
- Energetika & Elektotecnika / Russia (2014)
- Erbil Building Exhibition / Iraq (2014)
- Budma International Building Fair / Poland (2014)
- Win Automation Fairs / Turkey (2014)
- Baku Build Fairs / Azerbaijan (2013)
- Rebuild Fairs / Libya (2013)
- Win Automation Fairs / Turkey (2013)



# OUR HUMAN RESOURCES

Our Human Resource Department introduces training programs in order to enable our employees to quickly adopt to the changes in local and global conditions and continuously improve their competencies. Our main goal is to ensure that each individual is a creative, problem-solving, result-oriented, process-based, informed and flexible thinker. We try to do this by providing our employees with all the information they need.

Our trainings start with the Orientation Program, which we have implemented for all of our new employees. We further continue with individual ongoing training programs to ensure all of our employees skills and knowledges are updated. Our technical competence programs designed to continuously improve our employees and make them more productive

# SOCIAL RESPONSIBILITY PROJECTS

All along, Arken Jenerator has supported the development of young people and aimed to meet them continuously on various platforms.

- Arken has been participating in "Career Days" in collaboration with Istanbul Metropolitan Municipality and Istanbul Aydin University since 2012 and has been a guide to young people in their future planning.
- Kasgeg (Human Resources and Personal Development Program)
- Getek (Career Days of Istanbul Technical University)
- Mektebim Collage (Successful Pathway Conferences)



Discover  
the potential

# ARKEN®

## ISTANBUL HEADQUARTER

Haraççı Mahallesi, Dolmabahçe Caddesi No: 22 Arnavutköy / İstanbul  
Tel: 0 212 424 0 275 - Fax: 0 212 424 0 285

## ISTANBUL DISTRICT OFFICE OF ANATOLIAN SIDE

Cumhuriyet Mah.  
Nurul Sokak No:31  
Üsküdar / İstanbul  
Tel: 0 216 316 0 917  
Fax 0 216 316 0 918

## ANKARA DISTRICT OFFICE

100. Yıl Bulvarı, 1230 Sk. No:2, Ostim / Ankara  
Tel: 0 312 443 0 055 - Fax: 0 312 443 0 066

## İZMİR DISTRICT OFFICE

Atıf bey Mah. Akçay Cad.  
No:274/2 Gaziemir / İZMİR  
Tel: 0 232 224 17 35 - Fax: 0 232 224 35 17

## ANTALYA DISTRICT OFFICE

Akkuyu Mah. Anadolu Cad.  
T. Bilginler Apt. No:142/B Konyaaltı / Antalya  
Tel: 0 242 222 0 717 - Fax: 0 242 222 0 718

## GÜNEYDOĞU DISTRICT OFFICE

Mücahitler Mah.  
52017 Nolu Cad.No:1-F/6  
Şehitkamil/Gaziantep  
Tel: +90 (342) 999 4 536