



سهندکیوان
SAHAND KEIVAN

سیستم های تأمین برق سالم
Power Protection Systems



General Catalogue 2015



SAHAND KEIVAN Co.
Voltage Stabiliser ■ UPS



سهند کیوان
(شرکت سهامی خاص)
استابلایزر ولتاژ ■ یو پی اس

▲ Main Building

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تیمین
مرحوم سرسنگ مهندس محمد قاسم کلو

▶ Biography of Late Founder of the Company

The late Colonel Mohammad Ghassemlou was born in 1945 in Ahar, East Azerbaijan province. He attended the primary and secondary school in his hometown and then enrolled in the Iran royal Air Force in 1965 where he attained his military and academic degrees as listed below:

B.Sc. from Tabriz University in Electrical Engineering

High Diploma in "Military Radars Mechanics & Fitting" from Royal British Air Force

High Diploma in "TADS Radar operations & Maintenance" from Westinghouse Electric Corp.; Defense & Space Centre, Baltimore, USA

High Diploma in "Radar Displays Course" from Marconi College, Chelmsford, England

Diploma in "project Control & Management" from Iran Royal Air Force

Upon completion of 30 years of dedicated service in different divisions of the Air force, he was honorably retired as a Colonel.

The followings are a short list of his achievements during his 30 years of service:

Successful design and manufacture of strategic devices required in the air defense

Design and manufacture of more than 20 advanced electronic systems

Repair and production of crucial medical equipment as well as industrial equipment during the economic sanctions

More than 50 months of active appointment in the battle ground during the imposed Iran-Iraq war and successful handling of tactical missions

Management of "Jahad Khodkafaei" in air defense industrial researches in Tabriz for 17 years

Founder and manager of "Eng. Ghassemlou Technical-Research Group"

Managing Director of Sahand keivan Co. from 1994 till 1999

Design and installation of "voltage & Power Control Equipment"

Leadership of calibration projects for measuring instruments in accredited industrial plants

Design and production of control boards for CNC machines

Joint implementation of research projects in collaboration with professors of Tabriz University

Joint research projects in collaboration with Ministry of Energy and Ministry of telecommunication

Due to his merits and capabilities, Colonel Ghassemlou has been recognized with several military honors and scientific awards.

Colonel M. Ghassemlou passed away in 1999 leaving behind a solemn record of dedication to his duties and responsibilities. God bless his soul.

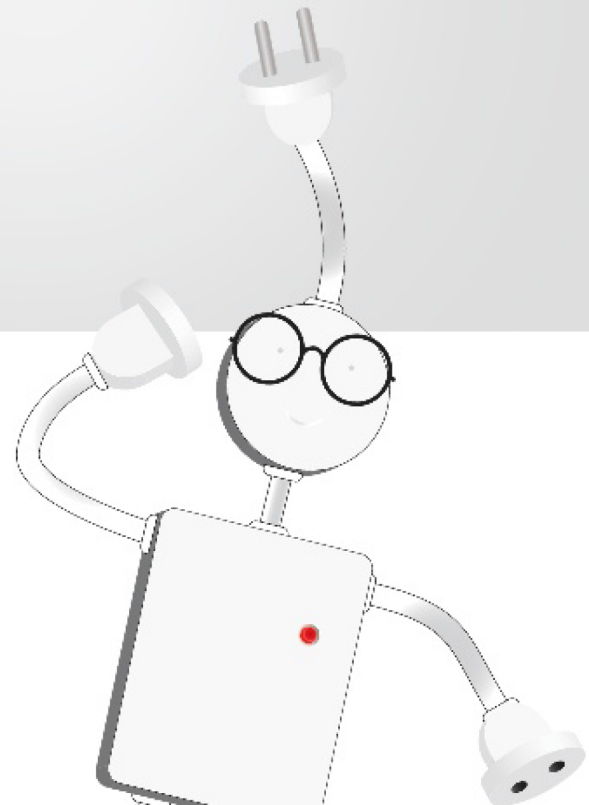


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ABOUT Us

SAHAND KEIVAN was founded in 1994 as a small electronic company upon the 30 years of experience of its founder, the late colonel Mohammad Ghassembaglo Eng. In Tabriz. One of the major industrial zones of the country. A small work-force with a small capital investment in a small work-shop relied upon a great determination, flourished into an acceptable establishment on industrial scale in a rather short span of time. Qualified colleagues as well as hard work. The initial idea of regulation of un clean voltage Fluctuation in industrial usage , is now inverted into mass production of " power protection systems" ,such as " voltage Stabilizers " and "Uninterruptible power supply" for industrial and specially medical applications. Utilization of modern technologies through a steady trend of research and development, based upon modern managerial skills and attitude of " thinking globally and acting locally" is now promising a bright future for SAHAND KEIVAN. SAHAND KEIVAN gets ISO 9001:2000 and ISO 13485 and CE certificates at recent years. There are many different types of products and techniques involved in voltage stabilization and it is important to understand the differences between them when considering a specific application.



Manager´s Note:

Right since the early days of it´s formation , SAHAND KEIVAN has tried to single out it´s own clientele among those who care for quality when it comes to the issue of power protection systems.

We are now aiming to be distinguished not only by virtue of quality products , but by custom tailored after sales services Something that could only be achieved by a back bone of distinguished human resources , which is our main asset.

Adaptation of management upscaling measures and quality assurance systems such as ISO and CE , helps us to look forward to the international market. Fabrication and supply of more than 3000 units of our products throughout Iran and the neighbor countries could be taken as a sign of our satisfactory performance through the 25 years of production.

Where the main target of SAHAND KEIVAN shall be realized.

Keivan Ghassemlou
MBA - DBA
Managing Director



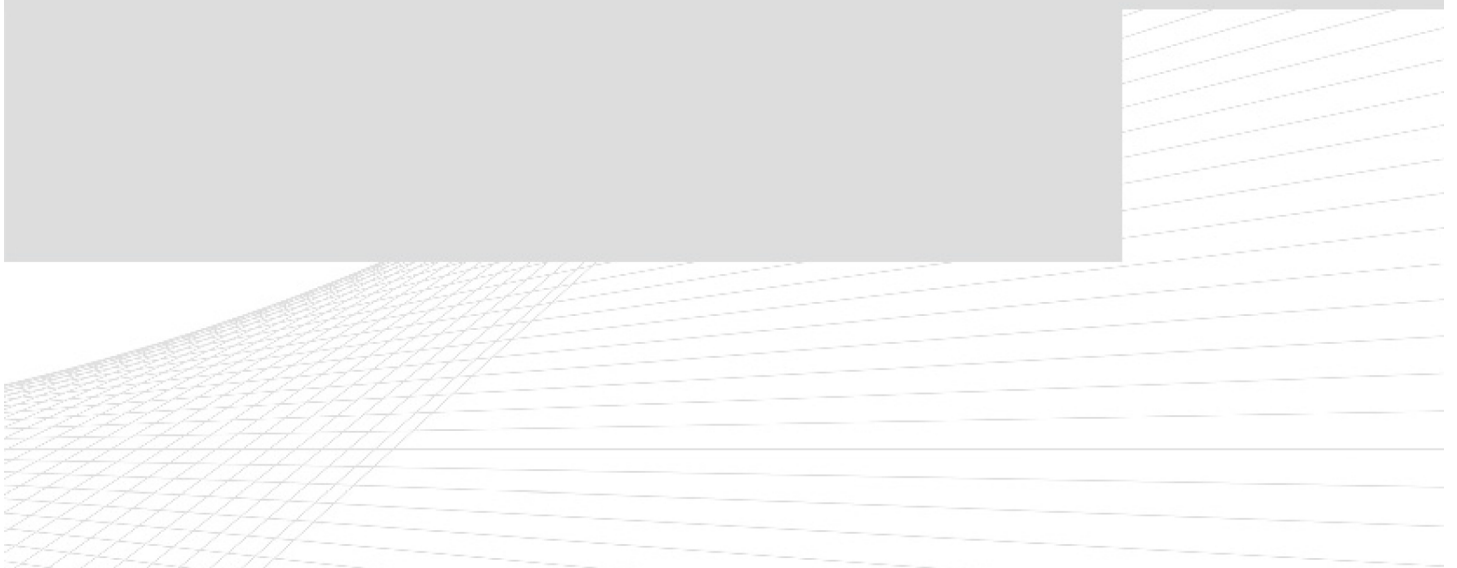


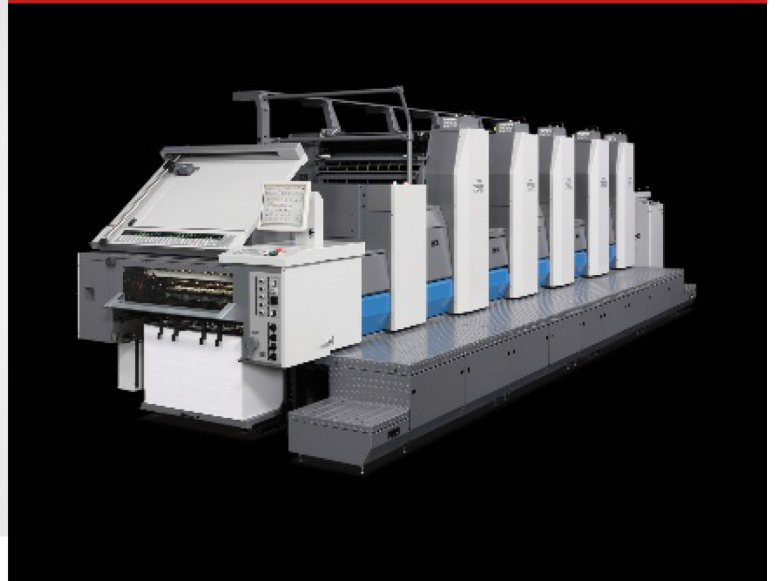
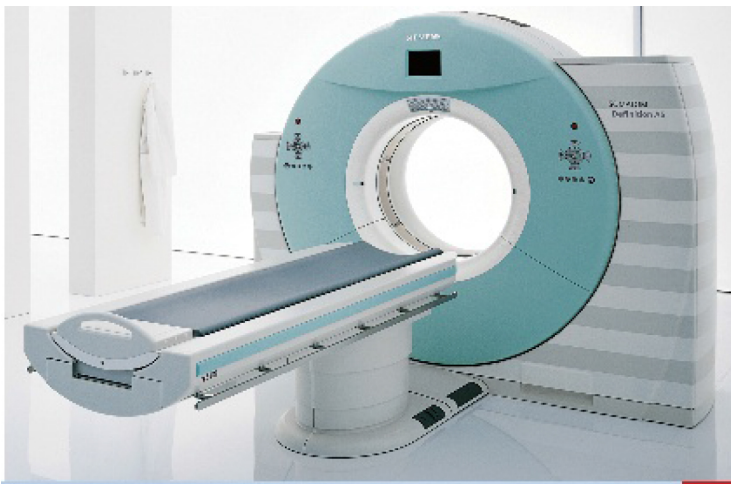
▶ Electrical energy management consultation (prior-to-sale services)

- Specialized consultation on technical/engineering services for supply of secure electrical energy
- Evaluation and assessment of electrical consumption of medical centers, industrial plants and suggestion of practical / economic solutions.
- Fault-searching and electrical trouble-shooting by application of advanced measurement devices.
- Provision of specialized technical reports on the status - quo of electricity consumption with the support of our highly professional technical back-bone.
- Design of precise requirements of electrical system structure.
- Arrangement of technical training courses for preparation of electrical standards documents
- Arrangement of services on the supply methods for secure electrical energy



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2015 General Catalog





▶ UPS (Uninterruptible Power Supply)

3ph-Online 10-300KVA




Ups is a unit which provides continuous electrical supply along with electrical protection needed for sensitive applications. This unit can supply the electrical through the electrical power accumulated in its batteries.

Technical Features:

- True Online - Double Conversion Technology
- IGBT PWM Rectifier & Inverter Technology
- Multi microprocessor controlled
- Output isolation transformer
- Low Input Current THD (<%3)
- High input power factor (>0.99)
- High efficiency >%91
- High performance at nonlinear loads
- Dual mains input
- Advanced battery management
- Short circuit and overload protection
- 128 events alarm memory (4000 alarms)
- Static & manual bypass operation
- Small footprint and easy maintenance
- Advanced communication capabilities
- Perfect generator compatibility
- RS232 and relay contacts
- SNMP compatible communication
- Low Noise



 - Technical Specifications are Subject to change with out prior notice
- Please Apply for complete technical Specifications from our sales department

▶ **UPS** (Online Uninterruptible Power Supply)

1ph-Online 1-15KVA

Technical features:

- True Online - Double Conversion Technology
- Harmonic distortion Sinus wave output with less than 3% (THD<3%)
- Wide input voltage range ($\pm 27\%$)
- Overload and high-voltage Protection
- Lightning and surge electrical shock protection
- Cold start (DC power on)
- Intelligent battery management system extends the lifetime of batteries
- Smart RS-232 communication port
- Management software compatible



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- احتمال تغییر مشخصات فنی بدون اطلاع قبلی وجود دارد
- مشخصات فنی کامل را از واحد فروش بخواهید





▶ UPS (Line Interactive Uninterruptible Power Supply)

1ph-Online 0.5-3KVA

Technical features:

- Microprocessor controlled Line Interactive Technology
- PWM Technology
- Boost and Buck Automatic Voltage Regulation (AVR)
- Advanced Battery Management (ABM)
- Short circuit and overload protection
- Lightning and surge electrical shock protection
- User Friendly LCD Display
- Cold Start Function
- Tel / Modem Internet surge protection

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▶ AC Voltage Stabilisers (Servo-Mechanical)

3ph 10-2000KVA

An easy, quick and economical solution to power problems. VTS voltage stabiliser incorporates a motor driven variable transformer and electronic control system with high efficiency and more than 1% output accuracy with wide input voltage accuracy.

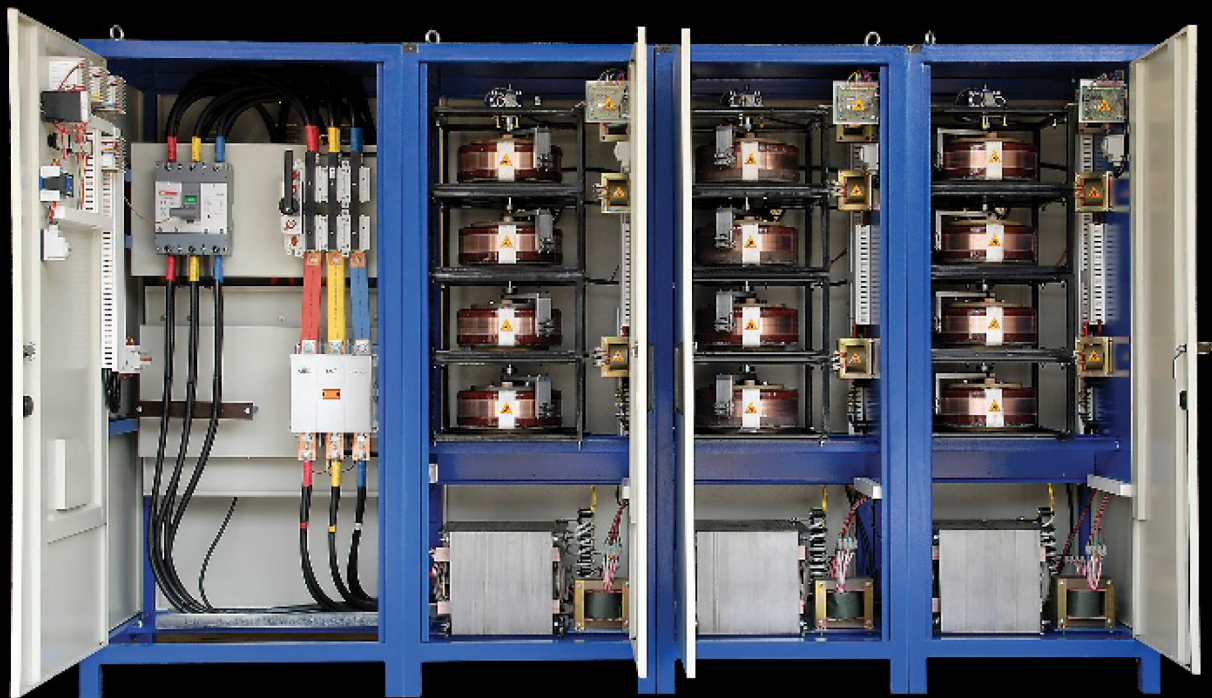


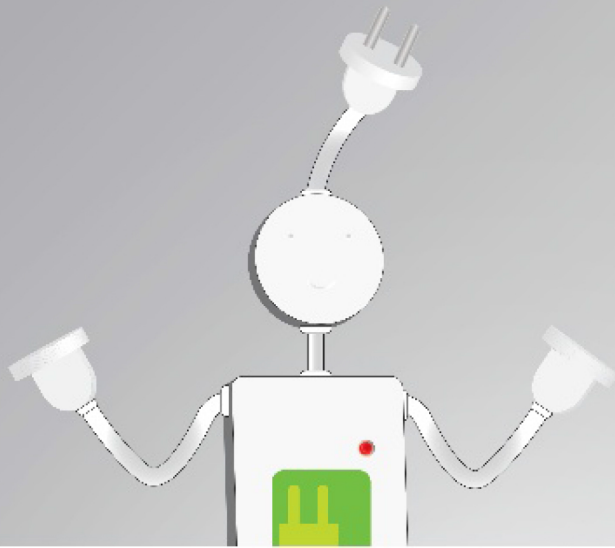
Technical features:

- High accuracy (more than 1%)
- Sinusoidal and linear correction ability
- Solid state control with feedback circuit
- Microprocessor control system (optional)
- Presetable output voltage to the required voltage
- Rapid response time within 20 msec
- High efficiency
- Provision of independent correction on each phase in 3 phase models
- Negligible waveform distortion
- Protection against one phase failed (as power-cut)
- Unaffected by load power ventilation
- Over/under voltage audible and visible alarm/relay contacts
- Protection against noise
- Manual by-pass switch
- Input-output voltage and current indications
- Gen-set Compatibility



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▶ AC Voltage Stabilisers (Servo-Mechanical)

1ph 3-50KVA

- The output voltage accuracy $1\% \pm$ based on feedback control circuit
- Output sine and continuous (linear) and high efficiency (96%)
- Adjustable and correct output voltage in the range of needed and desired
- Complete electrical safeguards
- Electronic control system all linear (non-Relay)
- Modified voltage waveform distortion unchanged (no harmonics) and noise attenuation electricity network
- Out of range warning (light and sound)
- Maintenance bypass circuit and output circuit zero
- The ability to meet the system to overload the moment
- Ability to work with Gen - set (not interact frequency of input phase)
- Speed up modified



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Isolation transformer

1ph 3-15KVA

3ph 10-45KVA

In places where there existence of electrical energy together with high humidity. Provides the risk of accidental electrical shock the best solution for separation of consumption voltage from grid voltage is the use of isolation transformer.

In this equipment there is not any ohm connection between the primary and secondary bobbins of the main Trans and on the output point of the Trans there is not null/ground connection.

In this method there is desired voltage at the output point of the Trans but due to absence of ground connection, electrical potential with ground is considered as zero, hence there is no danger of electrical shock.

In places where sensitive devices are exposed to the risk of being hit by lightning, application of an isolation transformer will disconnect the output current of the Trans due to saturation of the Trans core.

1. Prevention of electrical shock
2. Protection against transfer of thunder current to the electrical devices

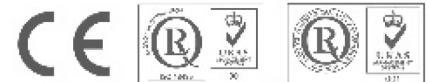
Technical features:

- Meeting international standards
- Precision monitoring of leak gauges
- Precision of performance at 0.5 to 5mA
- Use of thick metal sheets with double layered electrostatic paint
- Programmable cooling with filter
- Capability of information transmission to nursing station and technical operator
- Diversity in the number of outputs with double-bridge fuses
- Optional stainless steel cabinets for sterile locations
- Programmable LCD displays



▶ ترانس ایزوله خود ایستا

▼ نشستی سنج جریان (LIM)



◀ ترانس ایزوله توکار



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▶ Battery Cabinet

Design and fabrication of battery cabinets are based upon the highest standards provided by international bodies and with consideration of specific conditions of application and maintenance of the batteries.

Significant Technical features:

- Main switches (when needed)
- Thick sheets are used in order to prevent deformation in the long run
- Double layered powder paint for Prevention of corrosion
- Output current distribution panel (optional upon order)
- Custom designed to meet shape requirements (upon order)
- Diversity in size and form depending on the battery size
- Qualified installation works

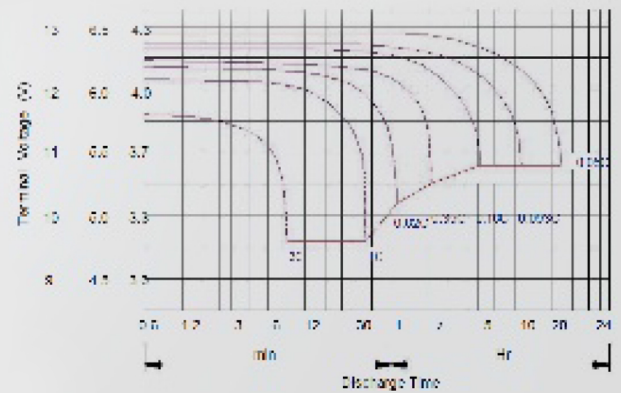
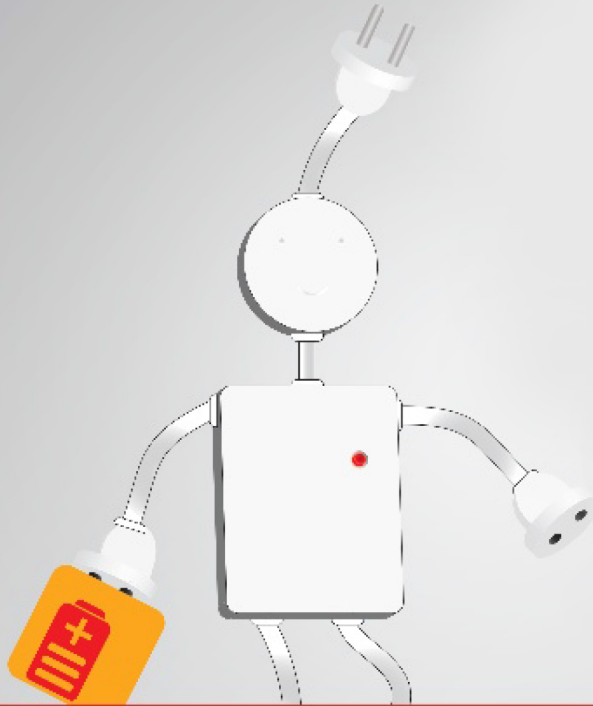
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- احتمال تغییر مشخصات فنی بدون اطلاع قبلی وجود دارد
- مشخصات فنی کامل را از واحد فروش بخواهید





Battery

Procurement of batteries through the most renowned international producers and brands with solid background is part of sahand keivan's procurement chain.

All batteries are of the highest technical specification with high durability and performance.

Consulting services are provided by our experienced after sales services team.



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www.sahandkeivan.com



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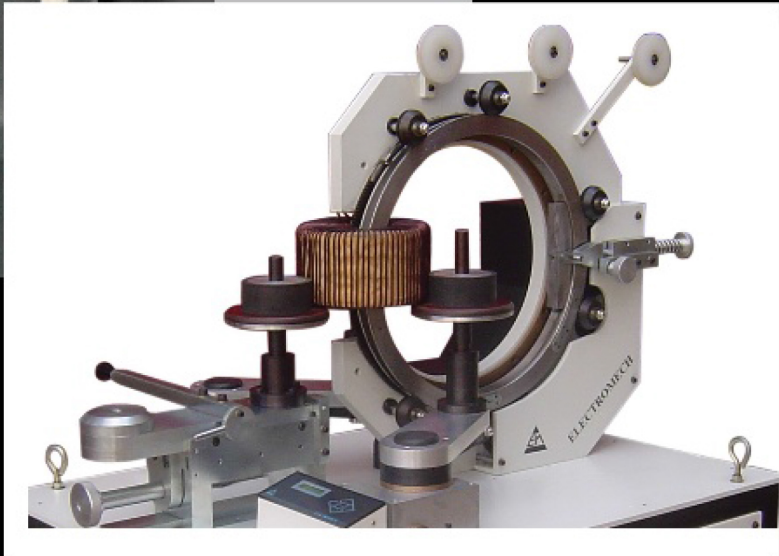
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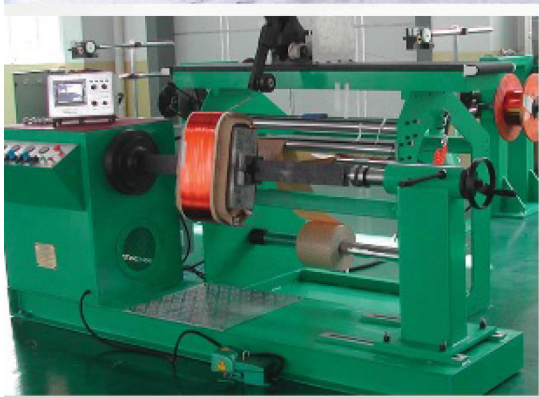
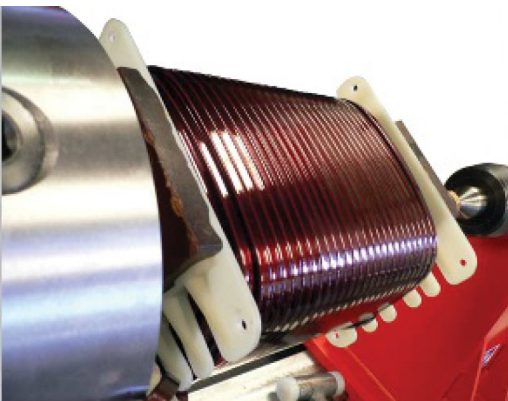
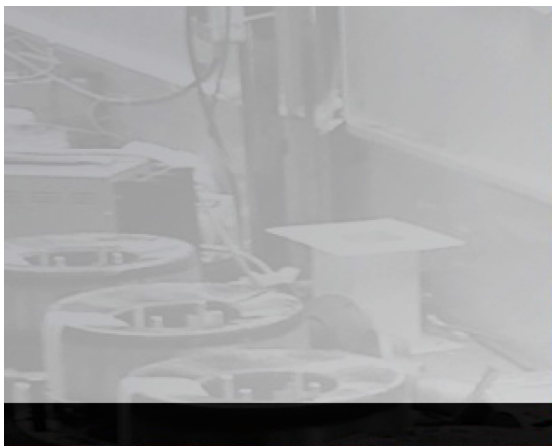


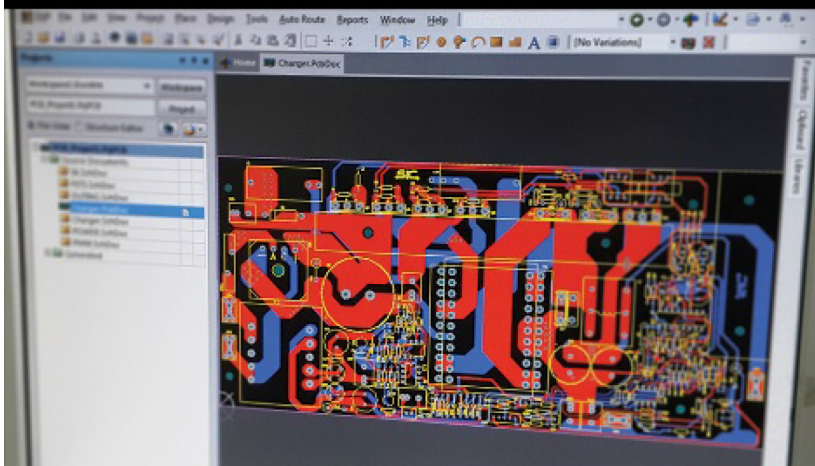
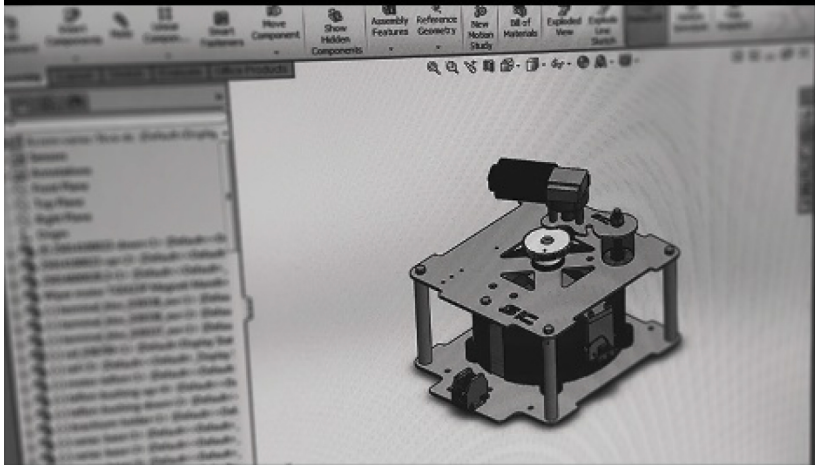
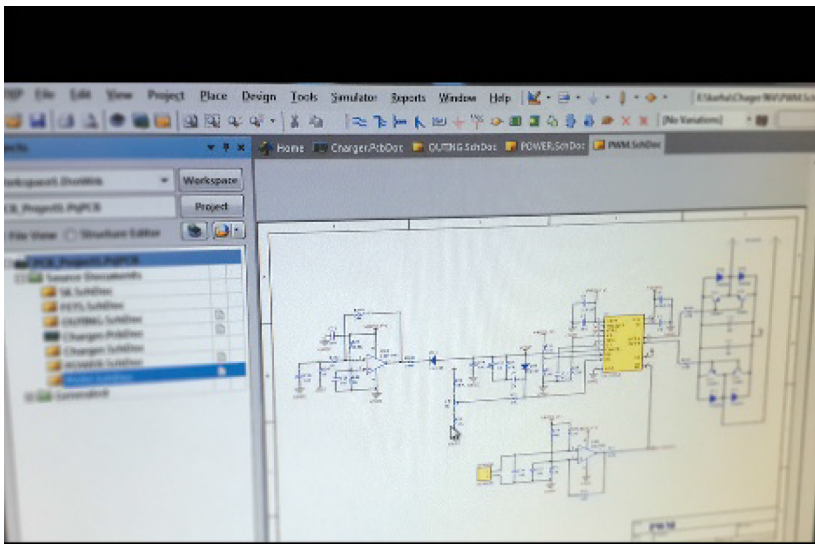
Variac Production line



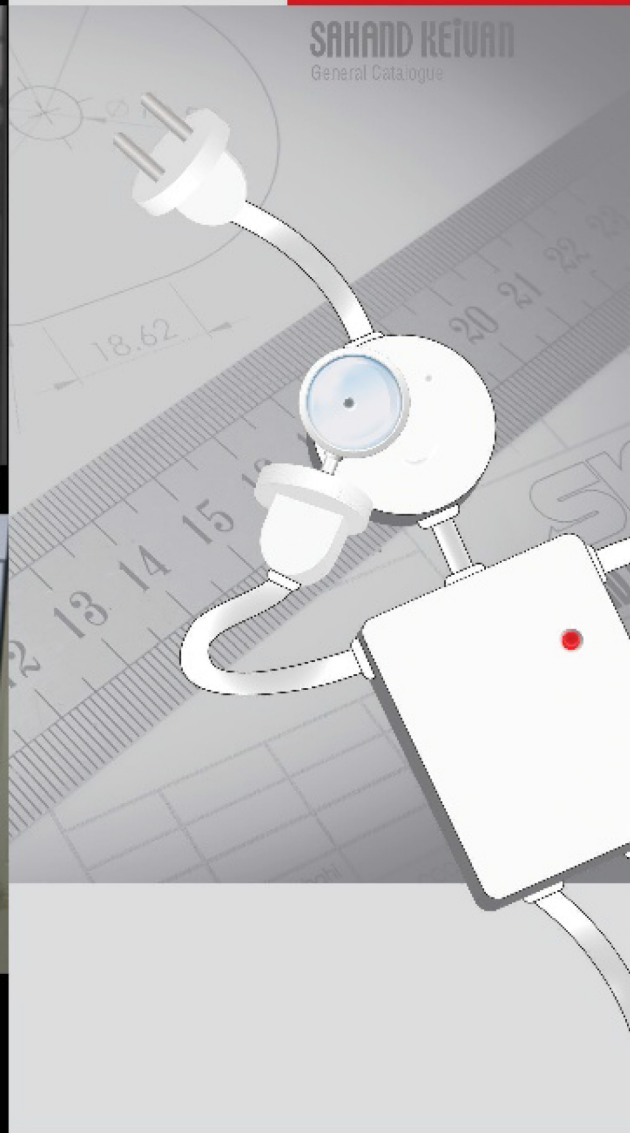
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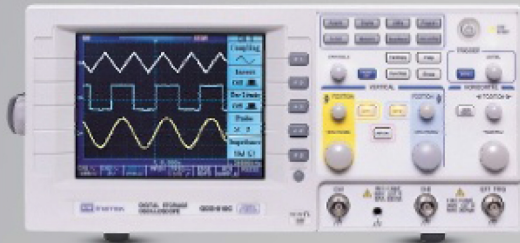




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▶ Quality control department



Quality control department stands as one the most critical of our production plant allowing us to achieve the highest possible question and the lowest failure

Precise regular quality control process is applied in different stages, from receipt of parts and raw material to all production stations to control of the final products, using advanced physical and electronic measuring instruments and well trained and experienced engineers based on requirements and documented criteria of international standard systems including CE and ISO ,enabling SAHAND KEIVAN to supply products on the highest global levels and acquiring the highest customer satisfaction records.

Coordination between our engineering and R&D departments with QC department along with the constant feedback of our sales and after sales services department of the quality central Dept.





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Guarantee & After sales services:

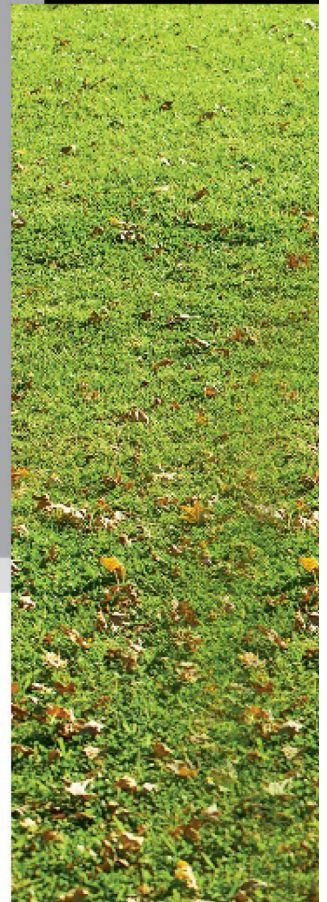
Relying upon the knowledge and experience of its well trained staff, sahand keivan has been providing one of the most successful after sales services.

We have secured the satisfaction of our customers by providing a vast service network, time efficiency, rich spare parts stock and reasonable pricing.

Correct commissioning effective operation training maintenance and timely periodical services ensure extended working life and reliable performance extended working life and reliable performance of our units for many years.

Features:

- Stock of genuine parts
- Well trained staff
- Short notice service provision
- Geographically vast service network
- Reasonable pricing
- Free operation training
- Periodic service visits during Guarantee period
- Repair and maintenance services after guarantee period upon annual contracts
- Job oriented booklets for repair and maintenance



Auto Industries

Food Industries

Pharmaceutical Industries

Paint, Adhesives and resin industries

Aeronautical Industries

Rail Industries

Military and ammunition industries

Textile Industries

Print, Lithography and Packaging Industries

Oil, Gas and Petrochemical Industries

Industrial Equipment and Parts Manufacturing

Iron & Steel Industries

MEDICAL CENTER مراکز درمانی

Hospitals affiliated with medical universities

Hospitals affiliated with Social Security Organization

Hospitals affiliated with Ministry of Oil

Hospitals affiliated with the Police and Armed Forces

Private hospitals

Clinics and Clinical Institutions

Dental Clinics

Imaging Centers

Dermatological and Beautification Centers

Visiting Rooms



SAHAND KEIVAN Co.

SECURITY SERVICES

حفاظت و امنیت

Closed Circuit Camera Systems

Fire and Security Alarm Systems

Automatic Doors

Banks and Financial Institutes

Municipalities

Iran Central and Provincial Television Networks

Customs Department







THE FIRST FESTIVAL OF
East Azerbaijan
Top's 100 Brands

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صد برنده برتر
استان آذربایجان شرقی





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