



AMVAJE ABI
ELECTRONICS INDUSTRY

Barmag Winder Modules

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Amvaje Abi: A Legacy of Expertise and Commitment to Quality

Amvaje Abi Company stands at the forefront of the industry, boasting over two decades of invaluable experience in designing, manufacturing, and advancing control systems and precision tools. Specializing in various sectors, particularly oil and gas, this knowledge-based company has earned its reputation as a trailblazer in Iran.

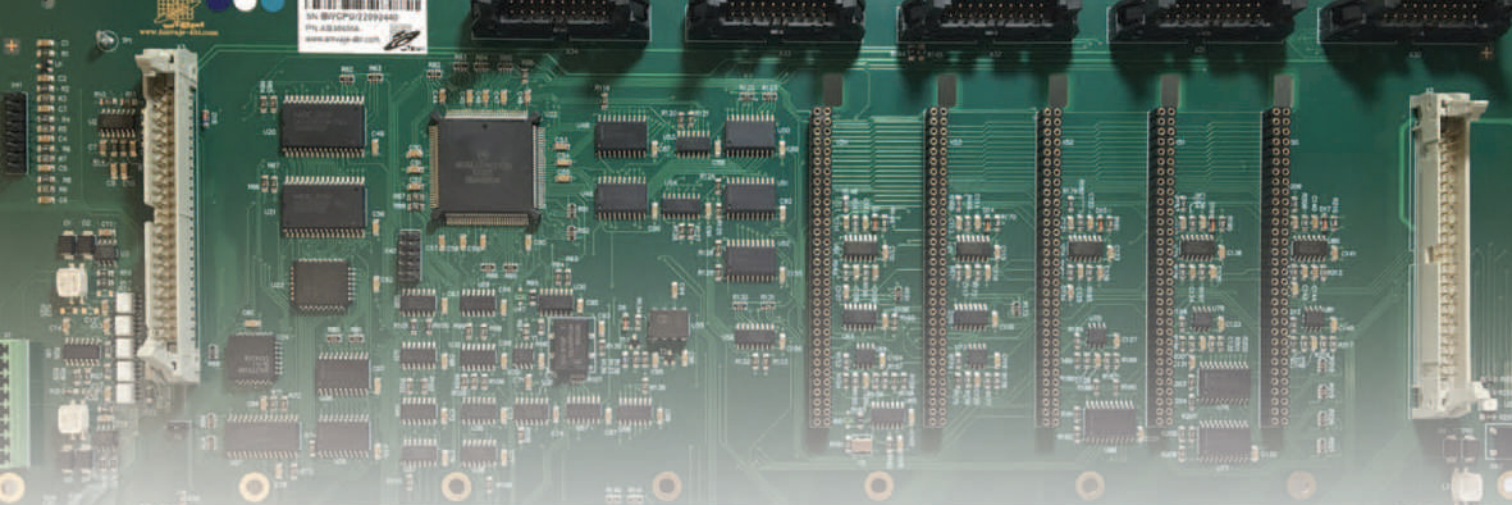
Established in 2002 with a mission to develop electronic systems tailored to the nation's needs, Amvaje Abi has evolved significantly over the years. In 2010, facing economic sanctions and stringent restrictions, the company successfully diversified into the production of control systems and precision tools, consistently delivering top-notch products across industries like oil and gas, mining, and steel.

Amvaje Abi's journey includes remarkable milestones, such as expanding R&D units, stringent quality control measures, and efficient production in the engineering department in Shiraz. Complemented by a management and commercial branch in Tehran, the company operates with a dedicated team of over 50 experts and skilled engineers, all alums of prestigious universities in the country.

In its commitment to international standards, Amvaje Abi has earned membership in the EP and AVL list of the Ministry of Petroleum and the National Petrochemical Company. The company has also secured multiple certifications and approvals from renowned organizations like the Association of Oil and Gas Industry Equipment Manufacturers and the Industrial Automation Companies Association.

With a portfolio boasting over 200 successful products, Amvaje Abi has achieved essential certifications domestically and internationally and has also seen exclusive use in major Iranian refineries and petrochemical plants by getting an exclusive MESC Code. Notable among these are the Pars South Gas Complex, Khangiran, Parsian, Shazand Oil, and numerous other significant petrochemical complexes.

Building on its rich experiences, Amvaje Abi has ventured into international trade, exporting its high-quality products to various countries. Committed to excellence, development, support, and the incorporation of cutting-edge technologies, the company has solidified its position as a leading force in Iran's electronic and industrial control industry and is recognized as a dependable supplier.



Barmag Winder Modules

- Oerlikon Barmag is one of the leading companies in the production of machinery related to the textile industry. POY Spinning system (3773-03-Barmag-ACW) is one of the production systems of this company, which is used to produce semi-combined yarn (POY) in the textile industry. POY yarn is the raw material of a wide range of fashion, sports, practical, and home textiles.

Amvaje Abi production cards that are fully compatible with Barmag-ACW-003-3773 textile system cards include:

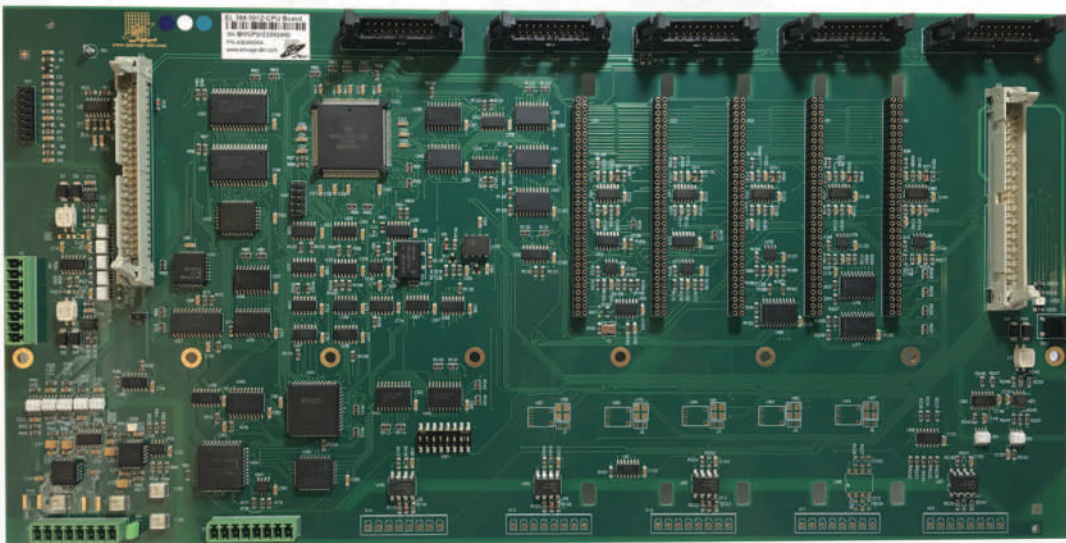
- EL356(Barmag Winder Motherboard)
- EL357(Barmag Winder Interface)
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- ED421 (Profibus Interface Board)
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- EL332 (CPU)
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Modules

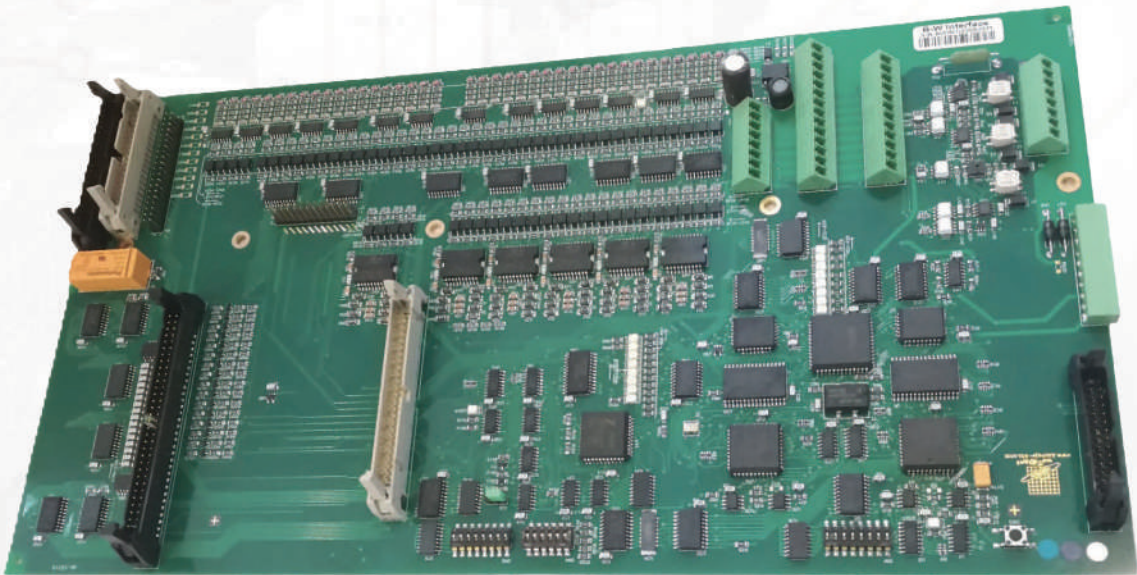
EL356 (Barmag Winder Motherboard)

- Motherboard of Oerlikon Barmag Spinning Systems and Texturing machines
- Supply Voltage:
 - Resolver Supply: +5V, 100mA
 - Serial Interface Supply: +5V, 100mA
 - Processor Supply: +5V, 500mA
 - Analog Circuit Supply: +15V, 100mA
- Serial Interfaces: CAN, RS485
- Feedback Signal:
 - Motor rotation information is sent to the resolver
 - Traverse motion inverter signals
 - Rotor inverter signals
 - Touch roll inverter signals
- Operation Temperature Range: 0 C°~70 C°
- Embedded temperature sensor to force the system to reset state when the temperature exceeds the permissible limit.
- Card self-test run, when power is connected, to force the card to reset mode in card error detection mode.



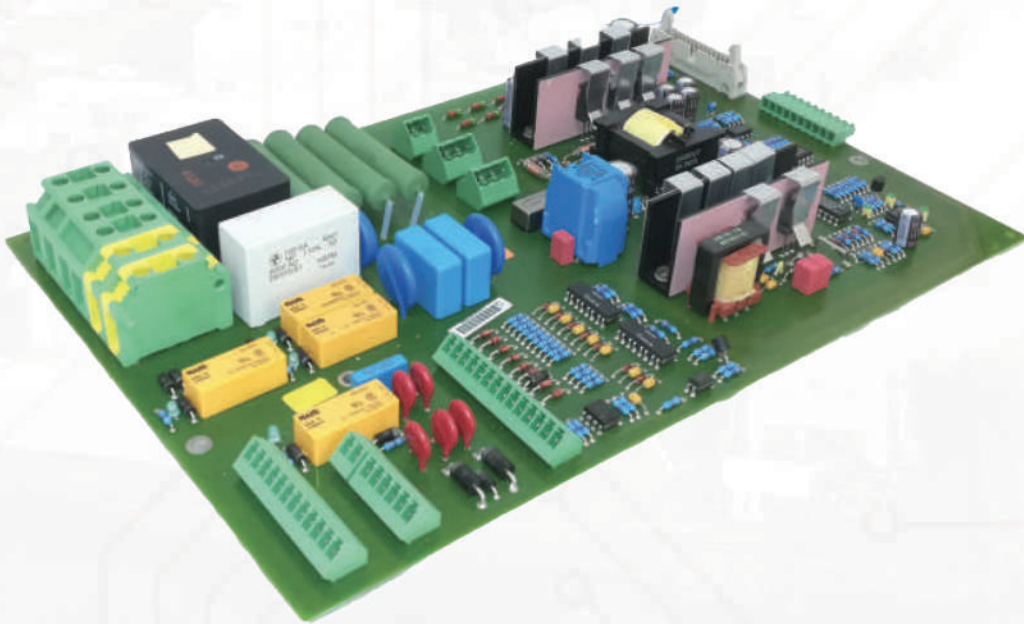
EL357 (Barmag Winder Interface)

- The interface card that establishes the connection between the motherboard and the O/Is.
- Supply Voltage:
 - Processor Supply: +5V, 500mA
 - Serial Interface: +5V, 100mA
 - Channels: +24V,500mA
- Number of 5V Input Channels: 16
- Number of 5V Output Channels: 16
- Number of 24V Input Channel: 35
- Number of 24V Output Channels: 24
- Operation Temperature Range: 0 C° ~ 70 C°
- Serial Interface: RS485



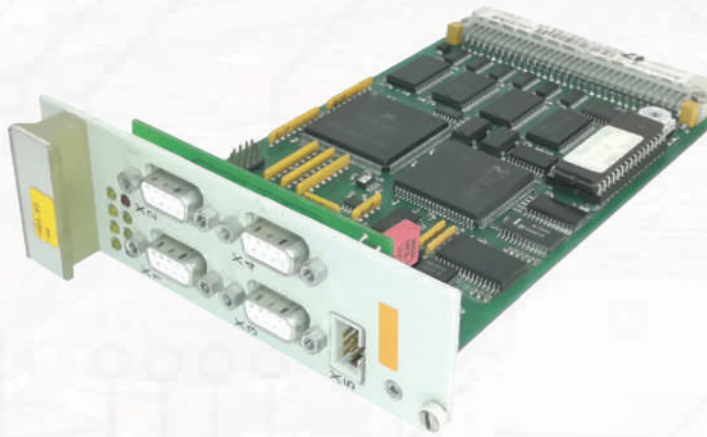
EA95B (Power Supply)

- Isolated power supply
- Input Voltage: 220 V AC
- Output 1: +5V LOG & +15V LOG
 - Power Supply OF EL356 and EL357
- Output 2: +5V SER
 - +5V power supply for serial port (CAN & RS485) of EL356 and EL357
- Output 3: +5V RES
 - +5V Power supply for the Resolver Interface circuit of EL356
- Output 4: +24
 - +24V Power Supply for I/O port of EL357
- The EL356 card issues the command of disconnection and connection of the card outputs.



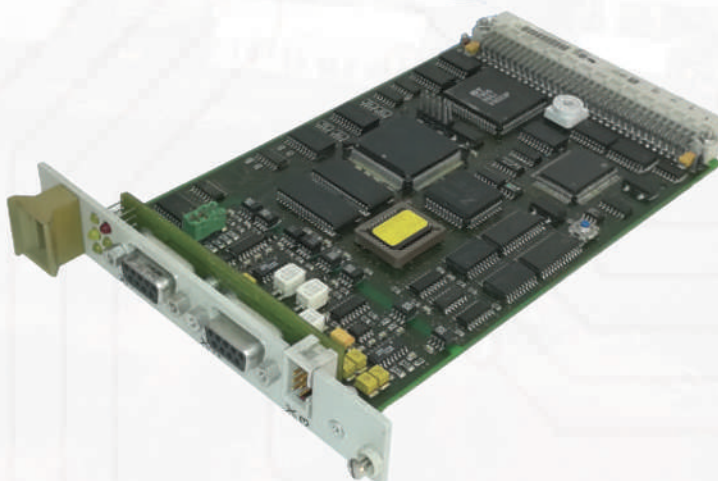
ED421 (Profibus Interface Board)

- Establish communication between different parts including PC, inverters, and winder under PROFIBUS protocol in the BARMAG ACW POY SPINNING system.
- Input Voltage: +5V
- Number Of PROFIBUS PORT: 4



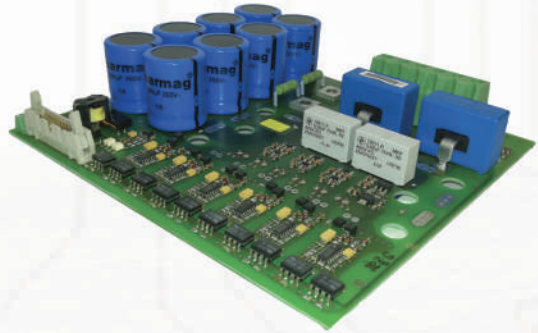
ED477 (Can Bus Interface)

- Establishing communication between system parts under CAN and RSY32 protocols.
- Input Voltage: +5V
- Number Of CAN BUS PORT: 2
- Number Of RS232 PORT: 2



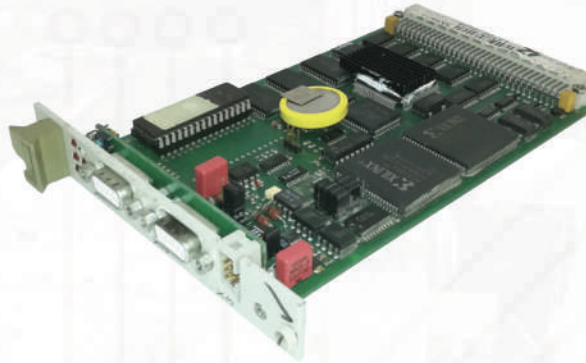
ED94B (Winder Driver)

- Motor driver in BARMAG ACW POY SPINNING system
- The motor drive command is issued by the EL356 card as an electrical signal, and the card drives different motors through an IGBT module.



EL332 (CPU)

- Barmag ACW POY Spinning system CPU card
- Powered by ED459 card.



EL347 (Rectifier Board)

- Rectifier card
- Converts AC power to DC signal levels.



Company's Services

- Engineering and Manufacturing Services:

- Designing various electronic and control systems.
- Reverse engineering and redesigning electronic cards and control systems.
- Electronic component assembly and mass production of various electronic and control systems.
- Testing and quality control of electronic cards.

- Specialized commercial services:

- Consultation and procurement of industrial control systems.
- Consultation and procurement of various electronic, telecommunication, and precision instruments.
- Consult and procure remote control wireless systems.

- Specialized Repairs:

- Specialized repair of electronic cards and precision instruments for refineries and petrochemical plants.

- Training and Technical Engineering Support

- Updating and Upgrading electronic and control systems

- Control Systems Integration and Commissioning

○ In addition to its diverse and prominent activities, Amvaje Abi Company, with its essential capabilities, is recognized as one of the active companies in the field of designing and integrating control systems and precision instruments. This includes implementation, commissioning, support, and maintenance. The Instrument and Control System Department of Amvaje Abi, with over 15 years of practical experience in industrial automation and precision instruments, has become a key player in providing suitable solutions for major industries, including oil and gas, petrochemicals, steel, etc.

The primary activities and services of the Instrument and Control System Department at Amvaje Abi:

- Consultation and Engineering
- Software design and development
- Conducting FAT processes
- Upgrading and Revamping
- Procurement of project components
- Design of engineering documents and documentation
- Control systems Integration and precision instruments
- Cybersecurity Based On Project Requirements
- SAT
- Commissioning
- Repair and Maintenance
- Training
- Project Management

Customers



Certificates and Standards

Membership in the AVL of the Oil Ministry



 عضویت در انجمن صنایع نفت و گاز

 تاریخ عضویت: ۱۳۹۸/۰۳/۰۱

شناسه ملی: ۱۵۵۳۳۵۸۹

 شناسه ملی: ۱۵۵۳۳۵۸۹

انجمن صنایع نفت و گاز ایران

ردیف	نام شرکت	تاریخ عضویت	نوع عضویت	محل عضویت
۱	شرکت صنایع نفت و گاز ایران	۱۳۹۸/۰۳/۰۱	عضویت	تهران

برای کسب اطلاعات بیشتر با کسب اطلاعات شرکت خود، در این قسمت می توانید با پشتیبانی وارد شد با کسب های این شرکت تماس بگیرید.

 شماره های تماس: تهران: ۰۲۱-۸۳۳۸۹۲۲۲۲ | تهران: ۰۲۱-۸۳۳۸۹۲۲۲۲ | تهران: ۰۲۱-۸۳۳۸۹۲۲۲۲

انجمن صنایع نفت و گاز ایران

ردیف	نام شرکت	تاریخ عضویت	نوع عضویت	محل عضویت
۱	شرکت صنایع نفت و گاز ایران	۱۳۹۸/۰۳/۰۱	عضویت	تهران

Membership Certificate Of Industrial Automation Companies Association



 انجمن صنایع شرکت های اتوماسیون صنعتی

 گواهی عضویت

شماره عضویت: ۹۸۱۰۲

 تاریخ صدور: ۱۳۹۸/۰۶/۰۱

 شروع عضویت: ۱۳۹۸/۰۶/۰۱

 اتمام تاریخ: ۱۴۰۰/۰۷/۳۰

Association of Industrial Automation Companies

 CERTIFICATE OF MEMBERSHIP

MEMBERSHIP NO: 98102 ISSUE DATE: Aug.22.2020

 REGISTRATION DATE: Aug.03.2019 VALID UNTIL: Oct.21.2021

رئیس هیئت مدیره

 مدیر عامل

Membership Certificate Of Association of Oil and Gas Industry Equipment Manufacturers

گواهی عضویت

 شرکت صنایع تجهیزات ایوانج آبی

شماره عضویت: ۵۸۱۰۲

 تاریخ صدور: ۱۳۹۸/۰۶/۰۱

این گواهی با تاریخ ۱۳۹۸/۰۶/۰۱ صادر شده و تا تاریخ ۱۴۰۰/۰۷/۳۰ معتبر است.

مدیر عامل

 رئیس هیئت مدیره

Operation License



 جمهوری اسلامی ایران

 وزارت صنعت، معدن و تجارت

پروانه بهره برداری

شماره پروانه: ۵۸۱۰۲

 تاریخ صدور: ۱۳۹۸/۰۶/۰۱

این پروانه با تاریخ ۱۳۹۸/۰۶/۰۱ صادر شده و تا تاریخ ۱۴۰۰/۰۷/۳۰ معتبر است.

مدیر عامل

 رئیس هیئت مدیره

Technology Unit Certificate



 مجوز واحد فناوری

شماره مجوز: ۵۸۱۰۲

 تاریخ صدور: ۱۳۹۸/۰۶/۰۱

این مجوز با تاریخ ۱۳۹۸/۰۶/۰۱ صادر شده و تا تاریخ ۱۴۰۰/۰۷/۳۰ معتبر است.

مدیر عامل

 رئیس هیئت مدیره



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