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آریان آسانسور (سهامی خاص)  
ARIAN ASANSOR Co. 



**Arian Asansor Co.**

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Quality & Reliability

## Quality and Reliability

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## **About Arian Asansor Co.**

Arian Asansor Co. was established in 1992 as the first manufacturer of the lift microprocessor control system in Iran. Having enjoyed the cooperation of experienced engineers and experts in electronics, the company owns a considerable portion of the market through production diversity and applying modern sales and marketing techniques and strategies. Underlining the importance of its R&D as the main axis to approach self-sufficiency goals, quality improvement, compliance with global standards such as EN81, and as the first company which could achieve ISO 9001 in quality management has always tried to improve the quality of its elevator control panels.

### **Research & Development**

Unremitting research and development efforts have put Arian Asansor on the path to progress to become an industrial knowledge-based company with numerous registered inventions with the highest required ratings. These inventions have created a platform for the production of new products with unique features and capabilities, the most important ones are reducing energy consumption, increasing safety, and improving running quality.

### **Manufacturing**

Using new methods of manufacturing in order to reduce the cost and delivery time in the case of maintaining the level of quality defined for products in various industries is very common which has always been the special focus of Arian Company. In the production unit, using the fully mechanized SMD production line, all production steps are performed wholly automatically and the error coefficient has reached zero levels which have led to the superior quality of products. Mechanized production of panels using standard methods has increased production capacity and increased product quality. The produced products can compete with foreign products at the international level.

### **Sales**

Arian Asansor Elevator Marketing and Sales Department with short-term and long-term planning and with a thoughtful vision has been able to satisfy customers, as a responsible company in Iran. Due to the current and future needs of customers and with careful planning, the sales department has been able to take steps towards achieving the goals and create a sense of satisfaction and a good memory of the purchase and also establish a strong distribution network by establishing extensive agencies throughout Iran.

### **After Sale Services**

Dear customers, in order to enjoy the benefits of product warranty, receiving installation services, purchasing original spare parts, and receiving expert services and troubleshooting, they also enjoy the support of Arian's extensive network of after-sales services throughout the country.

### **CRM**

Arian Asansor customers are the most important elements in the service delivery process. With the slogan of "customer representative in the organization", the CRM department tries to communicate effectively with all groups, understand their issues and needs, and provide their services to them in the shortest possible time. Receiving four statutes of consumer rights shows the importance and position of the customer in this organization.

### **Test Tower**

The first and highest test tower in Iran (Arian Asansor Test Tower) on July 13, 2015, with the presence of Mr. Sadeghi, Head of Mining Industry and Trade Organization, Mr. Bayat, General Director of Standards and Industrial Research of Tehran Province, Mr. Soleimanpour, Governor of Robat Karim, Mr. Sajjadi Head of the Mining Industry and Trade Organization of Robat Karim province, Mr. Valipour, Parand industrial province management and also media members were held at the factory of Arian Asansor Company located in Parand industrial province. The ceremony was attended by Mr. Nikoo Manzari and Mr. Bakhtiari, members of the board, and other managers of the company.



## Certificates

National Certificate of Consumer Rights in 2018

Provincial Certificate of Consumer Legal Observance in 2017

Provincial Certificate of Consumer Legal Observance in 2018

Provincial Certificate of Consumer Legal Observance in 2019

EU Product Conformity Certificate of CE

Quality management standard of ISO 9001: 2015

Environmental management standard of ISO 14001: 2015

Customer Complaints Standard of ISO 10002: 2018

Occupational safety and health management standard of OHSAS 18001: 2007

The national standard for inclusive management system requirements of ISIRI 13000 1ST.Edition

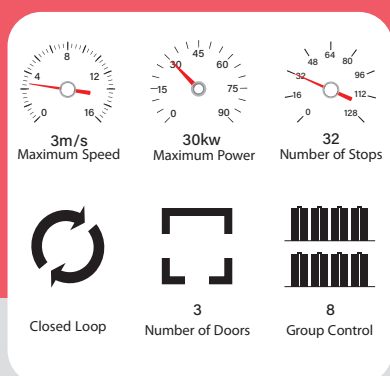
Standard of 5S

A silver statue of the National Day of Industry and Mining (the best industrial unit of the year 2017)





## **Integrated Products Control Panels**



## ADVANCE Integrated Control Panel (ARIS)

Geared / Gearless Machines  
Closed Loop  
Integrated Drive and Controller System  
Direct Approach Landing

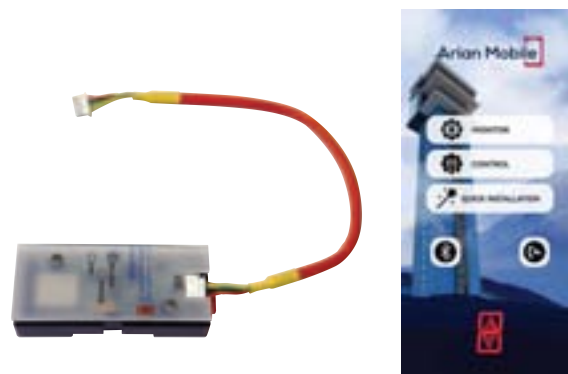
A product that includes of an integrated lift controller and emergency rescue system in a single control panel. It has very comfortable movement quality and utilizes direct approach landing ability.

### Specifications

- Equipped awith Arian Asansor integrated lift controller;
- Direct approach landing;
- Supporting up to 32 floors with full serial landing calls (LOP's);
- Supporting up to 16 floors with parallel LOP's;
- Supporting up to 3m/s car speed;
- Intelligent group control system up to 8 lifts;
- Emergency rescue system based on the UPS;
- Supporting three phase and single phase network supply;
- Capable of using UPS for normal running (Up to 1m/s) in blackout situation (Custom product);
- Capable of using full serial LOP and COP instead of parallel wiring (Causes considerable reduction of wiring for hall and car calls);
- Capable of using Arian Asansor internet of things (IOT) system for remote monitoring and controlling;
- Operation in close loop only, based on the information's that have achieved from shaft learning;
- Suitable for geared and gearless machines;
- Capable of adjusting the controller parameters via mobile;
- Supports fireman and VIP modes;
- Intelligent parking function;
- Car door pre-opening function (ADO);
- Car re-leveling function;
- Supports Endat, Sincos and HTL 12 – 30 V encoders;
- Capable of using in the buildings that have different floor heights;
- Machine and encoder offset auto tuning;
- Capable of triggering and releasing governor (machine room less projects);
- Equipped with anti-rollback function;
- Using the mobile application for adjusting the parameters;
- 8 programmable input and outputs;
- Auto torque compensation without load cell device;

**With direct landing and shaft learning features of the ARIS we achieve:**

- Shortened travel times with elimination of the creeping distance;
- Automatic calculation of speed and deceleration points based on the distance to the destination floor;
- Automatic management of short floor travels and high speed lifts;



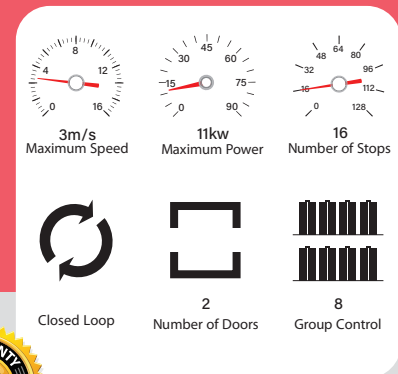
### The Arian Mobile

The Arian Mobile app enables you to conveniently manage your elevator using a smartphone. (Available for Android)  
With the Arian Mobile app, you can quickly and easily:

- Adjusting the parameters and monitoring;
- Observing 100 recent fault codes with their details;
- Monitoring and testing the encoder;
- Observing the exact position of the car;
- Performing auto-tuning and shaft learning;
- Decreasing the commissioning time of the system with quick installation function;
- Observing the status of input and outputs of the lift controller;

## ADVANCE All in One (ARPACK)

Geared / Gearless Machines  
Closed Loop  
Compact System  
Direct Approach Landing



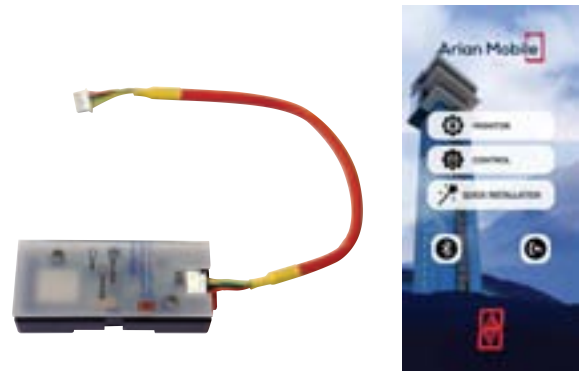
A compact product that includes of an integrated lift controller and emergency rescue system in a single control panel. It has very comfortable movement quality and utilizes direct approach landing ability.

### Specifications

- Equipped with Arian Asansor integrated lift controller;
- Direct approach landing;
- Utilizing 7.5KW to 11KW lift controller;
- Supporting up to 16 floors with full serial or parallel LOP's;
- Supporting up to 3m/s car speed;
- Intelligent group control system up to 8 lifts;
- Emergency rescue system based on the UPS;
- Supporting three phase and single phase network supply;
- Capable of using full serial LOP and COP instead of parallel wiring (Causes considerable reduction of wiring for hall and car calls);
- Capable of using Arian Asansor internet of things (IOT) system for remote monitoring and controlling;
- Operation in close loop only, based on the information's that have achieved from shaft learning;
- Suitable for geared and gearless machines;
- Capable of adjusting the controller parameters via mobile;
- Supports fireman and VIP modes;
- Intelligent parking function;
- Car door pre-opening function (ADO);
- Car re-leveling function;
- Supports Endat, Sincos and HTL 12 – 30 V encoders;
- Capable of using in the buildings that have different floor heights;
- Machine and encoder offset auto tuning;
- Equipped with anti-rollback function;
- Auto torque compensation without load cell device;
- Using the mobile application for adjusting the parameters;
- 8 programmable input and outputs;

#### With direct landing and shaft learning features of the ARPACK we achieve:

- Shortened travel times with elimination of the creeping distance;
- Automatic calculation of speed and deceleration points based on the distance to the destination floor;
- Automatic management of short floor travels and high speed lifts;



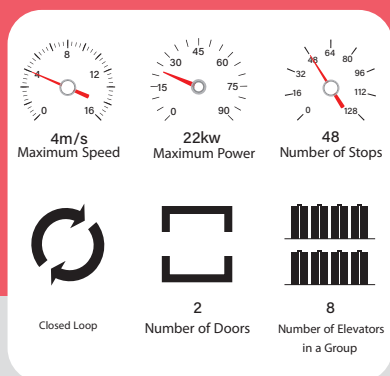
#### The Arian Mobile

The Arian Mobile app enables you to conveniently manage your elevator using a smartphone. (Available for Android)

With the Arian Mobile app, you can quickly and easily:

- Adjusting the parameters and monitoring;
- Observing 100 recent fault codes with their details;
- Monitoring and testing the encoder;
- Observing the exact position of the car;
- Performing auto-tuning and shaft learning;
- Decreasing the commissioning time of the system with quick installation function;
- Observing the status of input and outputs of the lift controller;





## Hpmont All in One (iLift)

Geared / Gearless  
Closed Loop  
Direct approach motion  
Integrated drive and controller (MT70)  
Affordable price

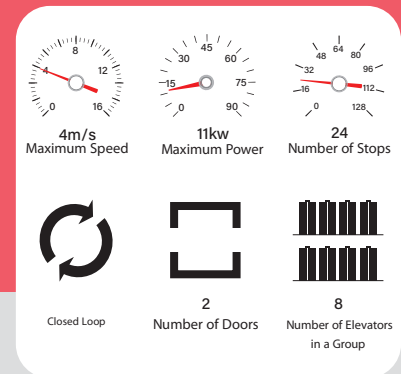
The iLift control panel is one of the Arian Asansor company integrated products. This means that the main controller board and the drive are merged which makes the control system smarter. MT70 controller is made by Hpmont Chinese Company. The quality of controlling the motor is exemplary. This product is among the integrated economic products.

### Specifications

- Equipped with integrated Hpmont-MT70 lift system (controller and drive);
- Supporting commissioning of 48 floors and speed of 4m/s;
- Tuning asynchronous and synchronous motors (loaded);
- Real direct approach motion with high accuracy;
- High accuracy determination of floor distances by shaft learning;
- The level adjustment from machine room or in the car;
- Automatic compensation of torque while starting, with no need to weight sensor;
- Controlling system status and troubleshooting inside the car by using a setup panel;
- Programmable inputs and outputs and the logics;
- Complete serial structure of connections for car and landing calls buttons according to CANbus & MODbus protocols;
- Running with immune speed after stopping between floors;
- Automatic functionality at fire mode and running the car by fireman;
- Supporting pre-opening of the car doors (ADO);
- Re-leveling capability with door opened;
- Group control with up to 8 lifts;
- Separated defining of main door and second door;
- Setting parameters by using mobile phones and Bluetooth module.

## BlueLight

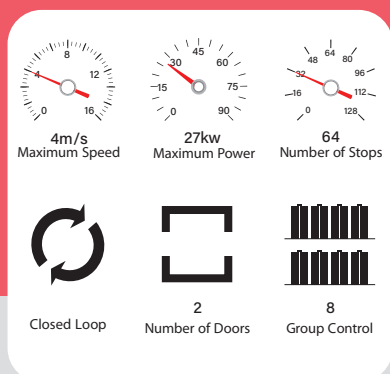
Gearless  
Closed loop  
Economic package/Good quality  
Direct approach motion  
Full motor and drive compatibility



Integrated controller and drive. Bluelight Company is one of the leading and first manufacturers of the complete control system in China. The high quality and capabilities of this product along with the affordable price, has made it a great economic option for gearless elevators. We recommend you set up the Bluelight control panel and Bluelight motor as a package.

### Specifications

- Using 24 strings travel-cable;
- Equipped with integrated Bluelight-BL2000 lift system (controller and drive);
- Suitable for gearless lifts;
- Supporting commissioning of 24 floors and speed of 4m/s;
- Full compatibility between motor and drive if used in package form;
- Automatic motor tuning (loaded and no loaded);
- Real direct approach motion with high accuracy;
- High accuracy determination of floor distances by shaft learning;
- Automatic compensation of torque while starting, with no need to weight sensor;
- Running with immune speed after stopping between floors;
- Automatic functionality at fire mode and running the car by fireman;
- Capable with automatic, semi automatic and simple doors;
- Evacuation system using UPS;
- Intelligent group control algorithm with up to 8 lifts;
- Affordable price and quality.



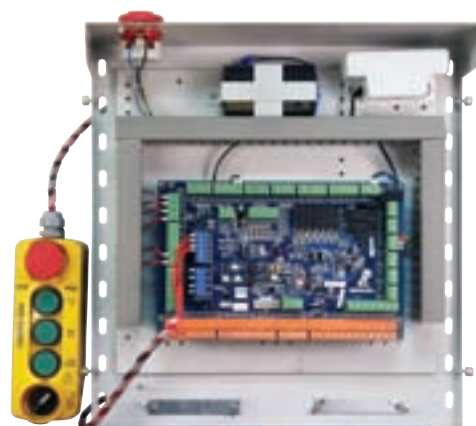
## Arkel Control Panel

Geared / Gearless  
Closed Loop  
Integrated drive and controller (ARCODE)  
Direct approach motion  
The drive made by Turkey

Arkel elevator control panel is one of the integrated products of Arian Asansor Co. This product was able to get a good market in Iran and other countries in the region in a short period. Excellent running quality and easy adjustments are the main features of this product and Arkel control panel is among the most expensive products of Arian Asansor Company.

### Specifications

- Equipped with integrated lift system (controller and drive) from Turkey;
- Suitable for geared and gearless elevators;
- Closed loop system;
- Intelligent group control algorithm with up to 8 lifts;
- Supporting commissioning of 64 floors;
- Supporting speed of up to 4m/s;
- Evacuation system using UPS;
- Re-leveling capability and pre-opening of the car doors;
- Setting up parameters using AREM powerful panel;
- Using internal EMI and RF filters for omitting noise;
- Capable of doing standard tests such as Traction and parachute tests;
- Governor releasing capability;
- Capable of being operational while power outage;
- Real direct approach motion with high accuracy;
- Compatible with EN 81-1+A3 and EN 81-20/50 standards.



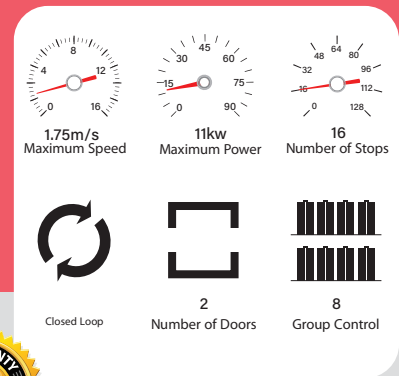
### Arkel AREM Panel

- Back up using memory card;
- Setting parameters from anywhere (car top, inside the car and floors);
- Monitoring and modifying motion curves;
- Monitoring and testing encoder;
- Making calls;
- Monitoring car position;
- Monitoring Programmable inputs and outputs;
- Auto-tune and learn.



## ARCUBE

Geared / Gearless  
Closed loop  
Direct approach motion  
Good quality and affordable price  
Made by Turkey

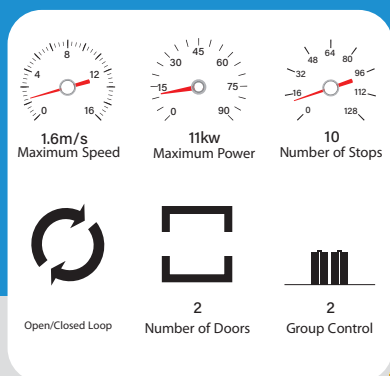


Arcube is a single unit combined VVVF drive unit, control board, ARD logic and other panel elements. Arcube, basically has 3 functions which are required for elevator systems. These are; control of the lift system, drive of the main motor and evacuation system for unexpected power loss conditions.

### Specifications

- Equipped with integrated lift system (controller and drive) from Turkey;
- Supporting commissioning of 16 floors and speed of 1.75m/s;
- Closed loop system;
- Suitable for geared and gearless lifts;
- Real direct approach motion with high accuracy;
- CANbus and parallel connection for landing calls;
- Supports TTL(5VDC), HTL(12-30VDC), SinCos, EnDat encoders;
- Automatic motor tuning (loaded and no-loaded);
- Automatic compensation of torque while starting, with no need to weight sensor;
- Intelligent duplex control algorithm;
- Re-leveling capability with door opened;
- Car position control with motor encoder and deceleration sensor;
- Evacuation system using UPS;
- Equipped with Anti Rollback system;
- Automatic functionality at fire mode and running the car by fireman;
- With quick setting mode;
- Compatible with EN 81-1+A3 and EN 81-20/50 standards.





## HP+ Control panel

Geared

Open loop / Closed loop

Suitable for low-rise and economic buildings

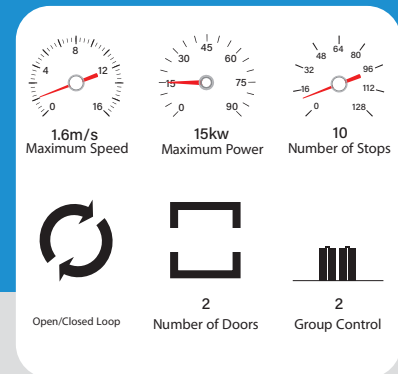
HP+ control panel is an economical and high quality control panel that has been in the shopping cart of Arian Asansor Company. this product is often recommended for low-rise projects that required economy control panels. this control panel is one of the low-cost products in Arian Asansor shopping cart despite having high quality.

### Specifications

- Using 16 strings travel-cables.
- Speed up to 1.6m/s
- Evacuation system based on the UPS
- Capable with Automatic, Semi automatic, Simple doors.
- Intelligent duplex control algorithm
- Compatible with the EN81-1

## SBT Control Panel

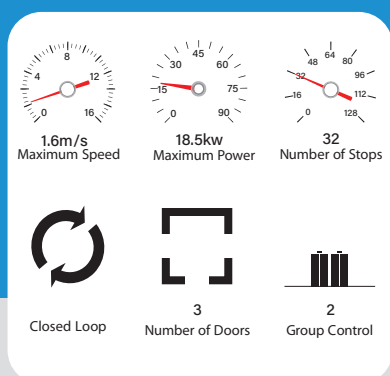
Geared  
Open loop / Closed loop  
Suitable for low-height economic projects  
The drive made by Iran  
"Main controller board "ECO Main S1"



This product is another economic control panel of the Arian Asansor Company. SBT drive is made by Iran and has a good quality. This product is often recommended for low-altitude projects that require economy control panels. The mainboard of this control panel (ECO Main S1) has new features. In this controller, the phase controller module, braking supply circuit, and fan are operated by the main controller board. This control panel is one of the low-cost products in Arian Asansor shopping cart despite having high quality.

### Specifications

- Using 16 strings travel-cable;
- MODbus connection of control board and drive which reduces downtime;
- Supporting commissioning of 10 floors and speed of 1.6m/s;
- Suitable for traction geared lifts;
- Open loop and closed loop control systems;
- Capable with automatic, semi automatic and simple doors;
- Evacuation system using UPS;
- Intelligent duplex control algorithm;
- Requiring inspection box to be run;
- Supporting commissioning of 10 inputs by parallel landing calls;
- Supporting commissioning of 10 inputs by parallel car calls;
- Ready wiring from inspection box to car calls panel;
- The control panel and inspection box are presented as a complete package;
- Compatible with EN 81-1.



## Hpmont Control Panel

Geared / Gearless

Closed loop

Good quality and affordable price

The drive made by China

Main controller board "EC-Alis"

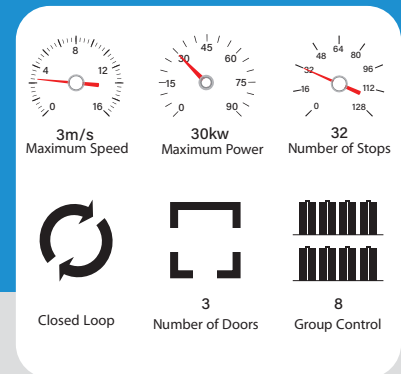
This product is among the economic products of the Arian Asansor Company and is usable for different types of geared and gearless elevators equipped with encoder. The drive is made by China. Suitable quality and many years of experience will reassure customers about performance guarantee of this product.

### Specifications

- Equipped with EC-Alis controller from Arian Asansor Co.;
- Equipped with Hpmont drive, suitable for geared and gearless elevators;
- Closed loop system;
- Supporting commissioning speed up to 1.6m/s;
- Equipped with an extreme controller with the 32-bit processor of Arm Cortex-M3;
- Short-circuit protected outputs;
- Supporting CANbus calls connections;
- Group control for unequal floors;
- Compatible with separate car calls up to 2 doors;
- Evacuation system using UPS;
- Quality monitoring of serial connection on the master elevator;
- Signal monitoring of inspection box on the main controller;
- Fire and Fireman mode;
- Park mode, according to the timetable;
- Compatible with EN 81-1 standard;
- Affordable price and quality.

# Yaskawa

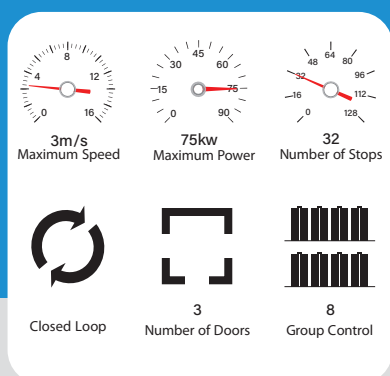
Geared / Gearless  
Closed loop  
High quality  
Drive designed by Japan  
Main controller board "EC-Alis"



"ADVANCE" drive is used in this control panel, which is high quality and affordable price. This control panel is only usable for motors equipped with an encoder. This product is among the closed loop economic products of the Arian Asansor Company. The main controller board of this control panel is made by Arian Asansor Company.

## Specifications

- Equipped with EC-Alis controller from Arian Asansor Co.;
- Equipped with Advance drive;
- Closed loop system;
- Supporting commissioning of 32 floors;
- Capable with HTL 12-30VDC, EnDat and SinCos encoders;
- Real direct approach motion with high accuracy;
- Equipped with an extreme controller with the 32-bit processor of Arm Cortex-M3;
- Short-circuit protected outputs;
- Monitoring second and third doors status;
- Supporting CANbus calls connections;
- Group control for unequal floors;
- Selective collective up to 3 doors;
- Evacuation system using UPS;
- Operator Attendant mode;
- Fireman mode;
- Park mode, according to the timetable;
- Compatible with EN 81-1+A3 standard;
- Affordable price and quality.



**Gefran**

Geared / Gearless  
Closed loop  
High quality  
Drive made by Italy  
Main controller board "ALIS"

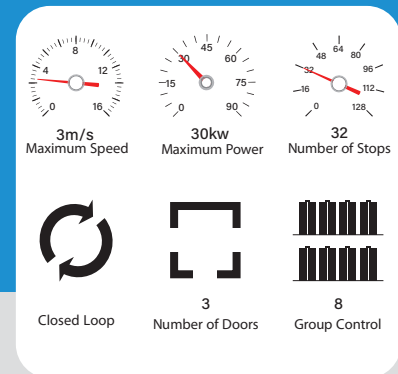
The drive of this control panel is made by Italian Gefran Company. This drive has a high quality and is usable for different types of geared and gearless equipped motors with encoders. This product is available in a wide range of power, which is among the most expensive products due to the usage of Gefran drive and Alis main controller board.

## Specifications

- Equipped with Alis controller from Arian Asansor Co.;
- Equipped with Gefran drive form Italian company.;
- Suitable for geared and gearless traction lifts;
- Supporting commissioning of 32 floors;
- Closed loop system;
- Supporting commissioning speed up to 3m/s;
- Equipped with an extreme controller with the 32-bit processor of Arm Cortex-M3;
- Short-circuit protected outputs;
- Monitoring second and third doors status;
- Supporting CANbus calls connections;
- Group control for unequal floors;
- Selective collective up to 3 doors;
- Operator Attendant mode;
- Evacuation system using UPS;
- Quality monitoring of serial connection on the master elevator;
- Signal monitoring of inspection box on the main controller;
- Fireman mode;
- Monitoring of all sensors;
- Park mode, according to the timetable;
- Compatible with EN 81-1+A3 standard;
- Affordable price and quality.

# ZIEHL-ABEGG

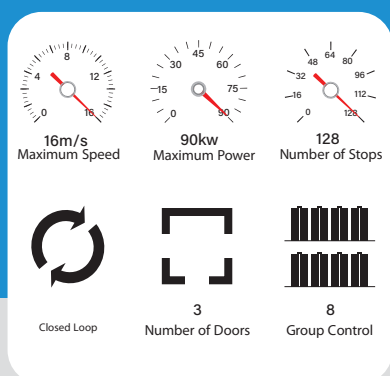
Geared / Gearless  
Closed loop  
Suitable for specific projects  
The drive made by Germany  
Main controller board "ALIS"



Ziehl-Abegg drive is one of the best and highest quality drives in the world right now which is made by German Company Ziehl-Abegg. If we consider the criteria of availability and control capabilities, this drive is undoubtedly the best option for special and luxurious projects. We use ALIS main controller board in this control panel which makes it compatible with different types of elevators.

## Specifications

- Equipped with ALIS controller from Arian Asansor Co.;
- Equipped with Ziehl-Abegg drive from Germany;
- Suitable for geared and gearless traction lifts;
- Supporting commissioning of 32 floors;
- Closed loop system;
- Supporting commissioning speed up to 3m/s;
- Equipped with an extreme controller with the 32-bit processor of Arm Cortex-M3;
- Short-circuit protected outputs;
- Monitoring second and third doors status;
- Supporting CANbus calls connections;
- Group control for unequal floors;
- Selective collective up to 3 doors;
- Operator Attendant mode;
- Evacuation system using UPS;
- Quality monitoring of serial connection on the master elevator;
- Signal monitoring of inspection box on the main controller;
- Fireman mode;
- Monitoring of all sensors;
- Park mode, according to the timetable;
- Compatible with EN 81-1+A3 standard;
- Affordable price and quality.



## SCHMERSAL CONTROL PANEL (Stark)

The most modern electrical package in Iran  
 ZAdynpro drive from German Ziehl-Abegg Co.  
 Bp408 main control board from German Bohnke Co.  
 CANopen lift – CiA® 417  
 Wide variety and updated options

This package is one of the most up-to-date, high-quality and most complete electrical elevator packages not only in Iran but also in the world. Stark package is designed based on CANopen Lift connection which includes the control panel and other related equipment such as monitors, weight sensor, door motor drive and so on.

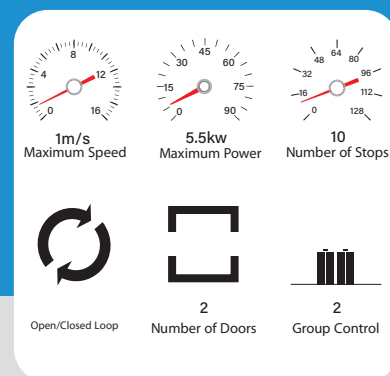
### Specifications

- Equipped with bp408 controller (newest Böhnke & Partner lift controller product);
- Equipped with ZAdynpro drive from German Ziehl-Abegg Co.;
- Capable with CANopen lift – CiA® 417 protocol;
- Real direct approach with high accuracy using independent car position system called “Limax” from ELGO Co. (German Company);
- Suitable for hydraulic, geared and gearless traction lifts;
- Supporting up to 128 floors;
- Supporting speed up to 16 m/s;
- Intelligent group control algorithm with up to 8 lifts;
- Selective collective up to 3 doors;
- No need to shaft sensors and switches;
- Remote monitoring via the internet;
- Compatible with BMS network;
- Remote control and troubleshooting via LAN, Bluetooth and Wifi;
- Optimal running curve according to the weight of passengers;
- Uninterrupted evacuation system;
- Compatible with different variety of CANopen lift equipment such as display panels, door motors and load cells;
- Compatible with EN 81-1+A3 and EN 81-20/50 standards;
- Specialized sales and support team.



## Single-phase Gearless

Gearless  
Capable with 3PH gearless motors  
Capable with electricity grid  
Good quality and affordable price  
Main controller board "EC-Alis"

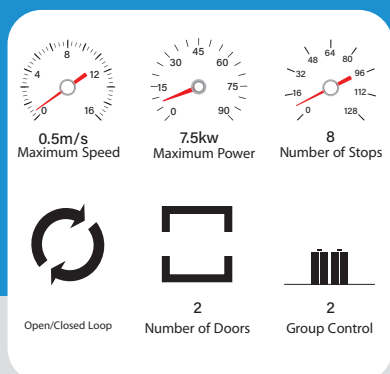


Single phase control panels are capable with single phase electricity grid. In some projects, the elevator may run at a speed lower than the rated speed. This product is suitable for running with gearless motors.

### Specifications

- Equipped with EC-Alis controller from Arian Asansor Co.;
- Capable with 220VAC and no need to 3-Phase power for working;
- Available with different kinds of Hpmont and ADVANCE drives;
- Usable with different types of 3-Phase synchronous motors (no brand restrictions);
- Evacuation system using UPS;
- Suitable for traction lifts with up to the speed of 1m/s;
- Supporting up to 10 floors;
- Conforming with ISIRI 6303-1;
- Affordable price and quality;
- Compatible with EN 81-1 standard.





## Single-phase Geared

Geared

Open loop / Closed loop

Suitable for areas with no access to 3Ph electricity grid

Suitable for economic projects

Main controller board "ECO Main"

This product is suitable for low-altitude projects which are hard to provide a 3Ph electricity grid. Several drive models are usable with the specific design of control panel. Home lift and Villa elevators are among the projects that could run with no need for a 3ph electrical grid. Due to the single phase limitations of the power of the buildings, the control panel usage power could be limited according to the provided power of the building and maximum running speed of the elevator must be less than half of the rated speed.

### Specifications

- Equipped with ECO Main controller from Arian Asansor Co.;
- Available with different kinds of drives such as Hpmont, Arco and SBT;
- Suitable for traction lifts with up to the speed of 1 m/s;
- Supporting up to 8 floors;
- open loop and closed loop;
- Evacuation system using UPS;
- Conforming with ISIRI 6303-1;
- Saving errors with inputs and outputs status and error events of the floor;
- Equipped with an extreme controller processor of Arm Cortex-M3;
- Affordable price and quality;
- Compatible with EN 81-1 standard.

## Machine Room-Less Control Panel (MRL)

Gearless  
Closed loop

Suitable for small spaces

Available with variety of gearless drives

Optimized energy usage



MRL control panel is designed to be used in gearless projects where there is not enough space to install the control panel or it is not possible to have access to the elevator motor. All standard requirements are met with this product. MRL boards have a smaller width than normal boards.

### Specifications

- Compatible with EN 81-1+A3 standards;
- Small dimensions;
- High quality;
- Available with different types of gearless drives;
- Compatible with different motor types.



## Control Panels Equipped with IP box

Geared / Gearless

Suitable for different environmental conditions

High quality

Equipped with IP fan

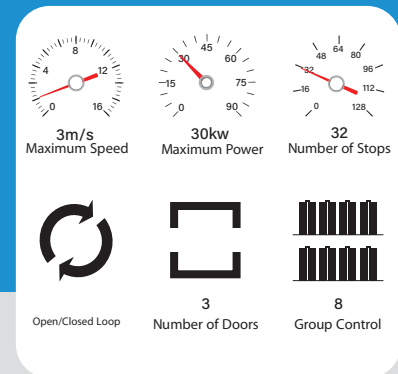
In projects such as industrial factory elevators, power plants, etc. with unfavorable environmental conditions such as severe dust, high temperature, high humidity, the presence of chemicals and toxic gases, the control panel should be protected against the mentioned destructive factors. In such conditions, IP boxes with an appropriate degree of protection are considered for the control panel.

### Specifications

- Compatible with unsuitable environmental conditions;
- Available with different IP boxes proportionate to project site;
- High quality;
- Equipped with IP fans.

## Full Serial

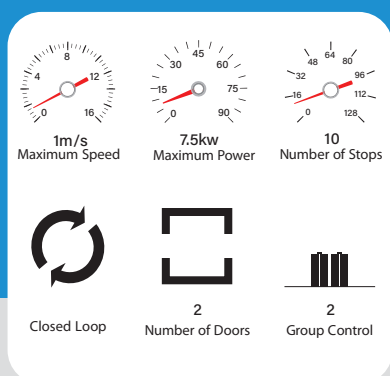
Geared / Gearless / Hydraulic  
Quick installation, safe and simple  
Available with a variety of displays  
Available with a variety of drives  
Suitable for buildings with different floors height



In this control panel, all communications with the accessory boards, including landing calls and car calls, are completely serial. In this design, different types of floor displays are provided along with various models of landing call boards. Also, in order to facilitate wiring and reducing installation errors, the Arian Asansor Company has provided a wired socket ready for the shaft and car wirings.

### Specifications

- CANbus full serial system from Arian Asansor Co.;
- Available with different types of drives with different powers;
- Supporting up to 32 floors and with the speed of up to 3 m/s;
- Suitable for hydraulic, geared and gearless traction lifts;
- Quick, safe and easy installation using full serial network:
  1. Available with standard socket wiring for connecting display panels;
  2. Standard junctions for shaft signals;
  3. Available with ready standard socket wiring for connecting the inspection box to car boards;
  4. Simplifying wirings of the COP to the inspection box using serial connections;
- Available with floor panels in different designs and models;
- Capable with different types of floor display panels:
  1. Latis;
  2. Dot-matrix;
  3. Seven-segment;
- Supporting pre-opening of the car doors (ADO);
- Smart training of floor display panels;
- Modifying parameters by using mobile phones inside the car;
- Car position control with motor encoder;
- Automatic car positioning system;
- Intelligent group control algorithm with up to 8 lifts;
- Suitable for buildings with different floor height;
- Intelligent parking algorithm, according to traffic of floors;
- Re-leveling capability with the door opened;
- Evacuation system using UPS;
- Governor releasing capability;
- Equipped with Anti Rollback system;
- Equipped with DMV panel for setting up elevator parameters;
- Programmable inputs and outputs;
- Automatic functionality at fire mode and running the car by fireman;
- Compatible with EN 81-1+A3 standards.



## ADVANCE Non-Stop

Geared / Gearless  
Normal elevator operation while  
the power outage  
6KVA UPS  
Direct approach

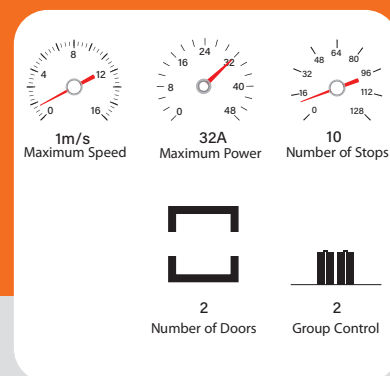
The prominent feature of this product is the normal operation of the elevator during a power outage so that the elevator will continue to operate several times (at least 100 times and with the maximum number of 250 times). The management of the number of elevators running times during a power outage is done by intelligent control panel algorithms. More interestingly, to enable this feature, you do not need any expensive accessories, and you can take the advantages of this feature by adding a cheap UPS to this product.

## Specifications

- Equipped with ADVANCE drive;
- Supporting speed of up to 1m/s;
- Suitable for car capacity of 8 persons and up to 10 floors ;
- Suitable for synchronous motors (max 17A) and asynchronous motors (max 7.5KW);
- Evacuation system using UPS:
  - 1.Capable of working with a minimum of 100 moves and a maximum of 250 moves (depending on battery capacity);
  - 2.Using single-phase UPS with a power of 6KVA;
- Capable with HTL 12-30VDC, EnDat and SinCos encoders;
- Real direct approach motion with high accuracy, with no need for independent car position system, shaft copy;
- Suitable for buildings with different floor height;
- Intelligent group control algorithm;
- Supporting pre-opening of the car doors (ADO);
- Re-leveling capability with door opened;
- Wiring:
  - 1.CANbus serial connection to car top board and car call panel;
  - 2.CANbus serial connection to landing call panels and parallel connections up to 10 floors;
- Car position control with motor encoder;
- Automatic motor tuning (loaded and no-loaded);
- Automatic car positioning system;
- Equipped with Anti Rollback system;
- Governor releasing capability;
- Programmable inputs and outputs;
- Equipped with DMV panel for setting up elevator parameters;
- Compatible with EN 81-1+A3 standards.

## ECO Hydraulic Control Panel

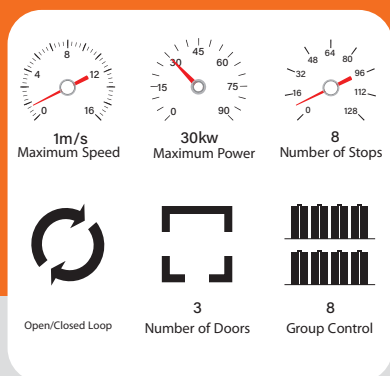
Compatible with different Valves  
Evacuation system based on the UPS  
Main controller board "EcoMain"



ECO hydraulic control panel is appropriate for power units with rated current up to 32A, and maximum valve control up to 4pcs. Also this product supported the 24,48,110 volt of electrical vales by defaults.

### Specifications

- Speed up to 1m/s
- Number of stop up to 10 floors
- Voltage selectable for the electrical valves.
- Special functions for motor protection:
  - \* Over current protection
  - \* Output current deviation protection
  - \* Protection against lack of output current
- Auto travel sequence adjustments.
- Random call function per hours.
- Monitoring the 3-phase via controller, with special functions:
  - \* Phase sequence or phase unbalance
  - \* Disconnection of each phases
- Auto Re-leveling function
- Independent inputs and functions for the pressure switches.
- Evacuation system based on the UPS.
- Compatible with the EN81-2



## 3VF-Hydraulic Control PAanel

Compatible with different drive types  
Compatible with different power units  
Emergency rescue operation  
EC-Alis as its main board

In order to have better controlling on the motor-pump at the beginning of running and also to reduce the energy consumption of the starting time of the motors in hydraulic elevators, a drive-hydraulic product can be used.

### Specifications

- Equipped with EC-Alis controller from Arian Asansor Co.;
- Equipped with extreme controller processor of Arm Cortex-M3;
- Available with different drives;
- Capable with different available types of power units;
- Increasing the service life of the motor-pump devices;
- Reducing output current while starting and thus reducing energy consumption;
- Evacuation system using UPS.





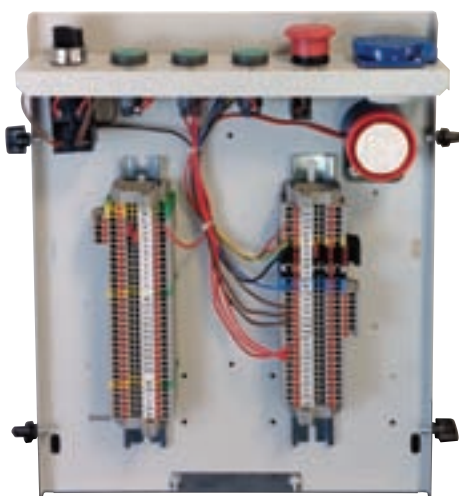
## Accessories





## Inspection Box (with electronic board)

- Equipped with electronic car top board for decreasing travel cable wires;
- Emergency stop button to prevent unintended movement;
- Equipped with "RUN" button for improving safety;
- Equipped with horn;
- Standard naming of terminals and connections;
- Using standard terminals with color separation to segregate different voltage levels.



## Inspection Box (without electronic board)

- Emergency stop button to prevent unintended movement;
- Push-buttons for running;
- Equipped with "RUN" button for improve safety;
- Equipped with horn;
- Standard naming of terminals and connections;
- Using standard terminals with color separation to segregate different voltage levels;
- Efficient space for push-buttons and rotary switch.

## Ordinary Sub-distribution Box (3-PH)

- Conforming with the latest national standard;
- Using sectioner fuse instead of cylinder fuse, for increasing safety and simplicity of substitution;
- Equipped with Lockable Rotary Switch On/Off (2 position);
- Wiring according to specific requirements of the elevator;
- Equipped with fuse and separated terminal for shaft light.



## Automatic Sub-distribution Box (3-PH)

- Conforming with the latest national standard;
- Using sectioner fuse instead of cylinder fuse, for increasing safety and simplicity of substitution;
- Equipped with Lockable Rotary Switch On/Off (2 position) with key pressing lock;
- Wiring according to specific requirements of elevator;
- Equipped with fuse and separated terminal for shaft light;
- Equipped with RCD (Custom-made);
- Using intelligent system to detect and modify phase displacement.



## Pit Box

A pit box is a device that is installed in the pit for increasing the safety and controllability of the elevator. This product is similar to the inspection box, with a slight difference. According to EN81-20, the use of a pit box is mandatory.

### Specifications:

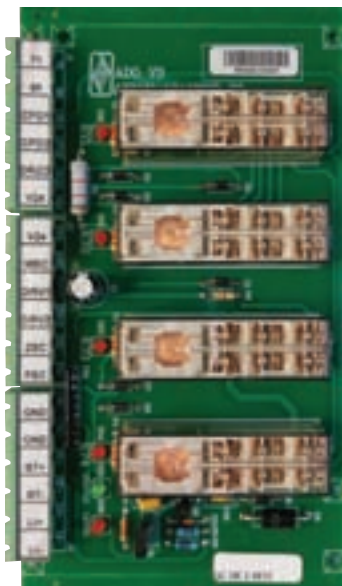
- Capable of inspection functionality according to standard requirements;
- Equipped with outlet, shaft light controlling, horn and so on;
- Small dimensions.





## GSM Board

- Sending elevator instant error;
- Saving errors;
- Two relay outputs with the ability of being turned on and off via SMS;
- Two programmable inputs for using at specific projects (sending input status to customers via SMS);
- Possibility to request antenna quality;
- Ability to set the method of sending errors.



## ADO (Advanced Door Opening)

ADO board (Advanced-Door-Opening):

- Capable of opening doors before stopping;
- Reducing running time;
- Using safety relays;
- Conforming with the latest national standard;
- Compatible with EN81-20 requirements concerning uncontrolled movements (UCM).

# IoT (Internet of Things)

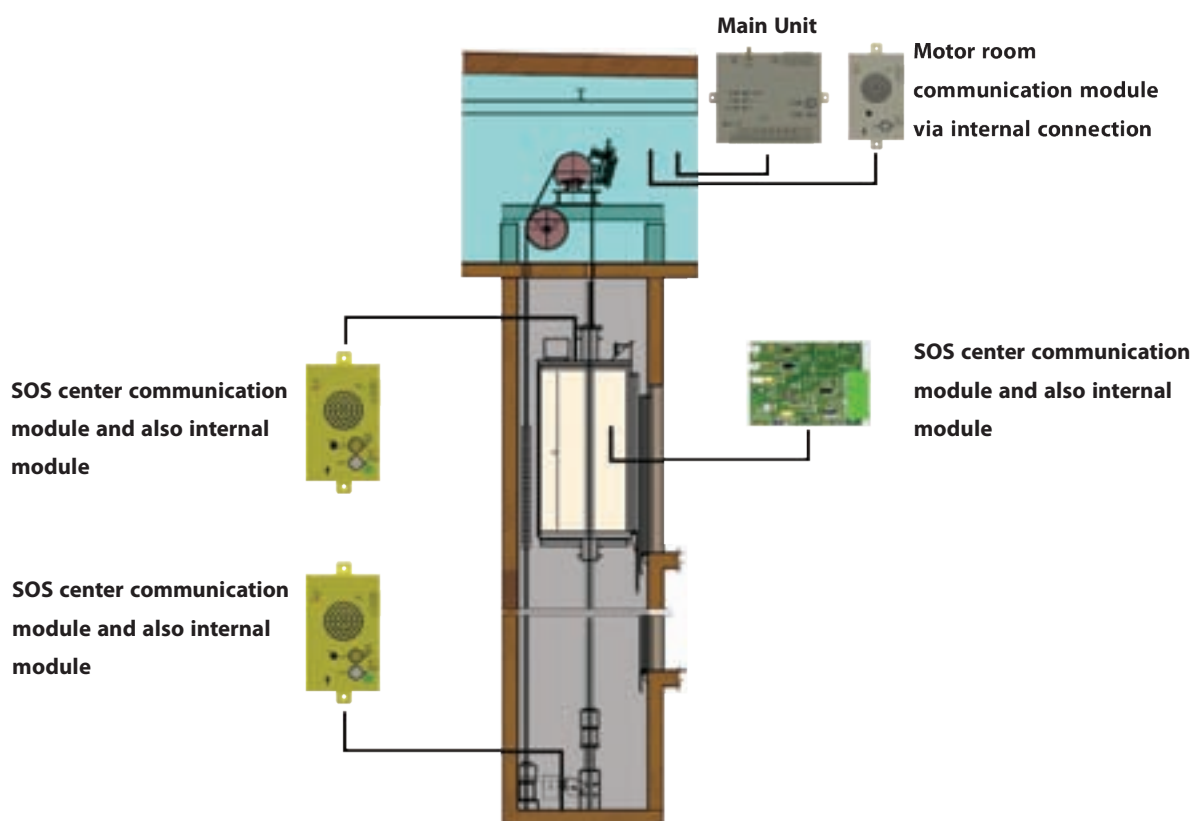
Monitoring and controlling software of the elevator is a new service from the Arian Asansor Company which you can easily monitor and control your elevators all around the world. By using the software of the Arian Asansor Company, you no longer need to be physically present in the building and all you have to do is accessing the internet on one of your devices including a computer, Smartphone, and tablet. You can trust us for fulfilling your future requirements. That wouldn't be easier because we have provided all you need.

- Supporting a vast area as Iran;
- Supporting different kinds of standard web browsers such as:  
Google Chrome  
Internet Explorer  
Firefox  
Safari
- Capable of displaying the position of cars in group control mode on one page;
- Capable of controlling and monitoring elevators in general as follows:  
Calls (car call, up call, down call);  
Car position;  
Car speed (m/s);  
Running direction;  
Doors status;  
Floor indications and numerators;
- Capable of controlling and monitoring elevators instantly as follows:  
Inputs status of safety circuit;  
Encoder pulses;  
Status of car sensors;
- Activating some special functions such as:  
K300  
VIP  
Deactivating landing calls;  
Deactivating car calls;  
Deactivating group control;  
Closing car doors permanently;
- Setting up controller parameters;
- Checking event logs in details (date, time, event description);
- Receiving statistical information on the number of trips for each of the floors separately by calls and cars, hourly, daily and monthly;
- Directly access and monitoring of calls and main display board;
- No need to install any special application on devices (computer, mobile, tablet);
- Monitoring and controlling of elevator via internet (WEB);
- Supporting all types of operating systems (Windows, Android, ios);
- High security and impenetrability (secure HTTPS protocol and encrypting SSL).



# Emergency Calls System (ARASS)

- Supporting all kinds of mobile operators;
- The capability of the two-way telephone call from three different points with the rescue center:
  - Inside the car;
  - On car top;
  - Shaft;
- Making internal "Intercom" call from three different points with the motor room:
  - Inside the car;
  - On car top;
  - Shaft;
- With different status displays:
  - Battery;
  - Error;
  - Sim card Antenna;
  - Calls connectivity;
- Control panel registering via Arian Asansor cloud server;
- Saving memory up to 5 phone numbers and automatic calling if no one responding;
- Automatic SMS sending to saved phone numbers, including the site position and building name while the elevator is out of order;
- Automatic calling to SOS centers for making a connection for whom trapped in the car;
- Smart software for testing the system every three days;
- Smart software for testing the battery and sending alerts before the battery breaks;
- Displaying different call statuses according to standard requirements;
- Intelligent algorithm to prevent possible abuse;
- Batteries for independency from electricity grid;
- Conforming with EN81-20 & EN81-28.





## **Commercial Commodities**



### **Simple Travel Cable**

- With two pairs of shielded twisted wires;
- Suitable for elevators with low height;
- 28 strings;

### **Steel Travel Cable**

- With two pairs of shielded twisted wires;
- More strength travel cable using



## UPS

- Available in apparent power:
  - 1.5KVA
  - 2KVA
  - 3KVA
  - 6KVA
  - 10KVA
- Automatic and intelligent charging to increase battery life;
- Setting up without electricity grid;



UPS 6KVA



UPS 3KVA



UPS 1.5KVA



UPS 2KVA



## Samples of Arian Asansor Projects



Control Tower Of Mehr-Abad Airport



Control Tower Of Imam Khomeini International Airport



Milad Hospital In Tehran



Iran Mall



Gardoon Shopping Mall



Seven Center Shopping Mall



Tabriz Thermal Power Plant



Pars Hotel In Tabriz





Fund Retirement Organization



Pasargad Tower, Shahrak Gharb



Negin Pasargad Hotel



Imam Reza Stadium In Mashhad

Presidential Building  
 Ministry of Industry, Trade and Mines Building  
 Agriculture Organization Building  
 Baqiyatallah Hospital  
 Imam Khomeini Hospital  
 Shohadaye Tajrish Hospital  
 Payambaran Hospital  
 Kasra Hospital  
 Sina Hospital  
 Shahid Fayaz-Bakhsh Hospital  
 Tehran Grand Hotel  
 Farmaniyeh Twin Tower  
 Baharan Elahiye Tower  
 Tehran Shahrak Gharb Tower  
 Darabad Persian Cener  
 Palmyra Commercial and Administrative Complex  
 Isfahan Provincial Government  
 Isfahan Municipality Building  
 Isfahan Justice Building  
 Isfahan Telecommunication Company  
 Isfahan Electricity Company  
 Isfahan New technology Industry Housing Cooperative

Isfahan Engineering Organization  
 Mobarakeh Steel Company Building  
 Isfahan Steel Company  
 Isfahan University of Technology  
 Isfahan University  
 Islamic Azad University Najafabad Branch  
 Al-Zahra University Hospital in Isfahan  
 Abbasi Hotel In Isfahan  
 Mashhad East Cement Company  
 Sepid Tower in Mashhad  
 Sarina Hotel in Mashhad  
 Shiraz Municipality central building  
 Dr. Khodadoust Eye Hospital in Shiraz  
 Zandiyeh Hotel in Shiraz  
 Pars Hotel in Shiraz  
 Tabriz Municipality organization  
 Tabriz Urban Train Organization  
 Control Tower of Hamadan Airport  
 Amiran Hotel 1&2 in Hamadan  
 Hazrat Masumeh Holy Shrine Parking in Qom  
 Botanic Palace Hotel in Golestan  
 Sina Hospital in Arak





17TH INTERNATIONAL LIFT EXHIBITION -TURKEY-2022



ELEVATOR INDUSTRY EXHIBITION – TEHRAN – 2023



ELEVATOR INDUSTRY EXHIBITION –MASHHAD– 2021



ELEVATOR INDUSTRY EXHIBITION – TEHRAN – 2021



ELEVATOR INDUSTRY EXHIBITION – SHIRAZ – 2022



CONSTRUCTION INDUSTRY EXHIBITION - RASHT- 2022



ELEVATOR INDUSTRY EXHIBITION – TEHRAN – 2017



ELEVATOR INDUSTRY EXHIBITION – ISFAHAN – 2020

## Quality and Reliability



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