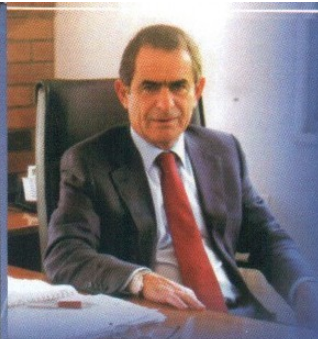


 **SABO**





Bazat pe principiile noastre de standarde ridicate de calitate, flexibil si rapid service post vanzare, suport tehnologic pentru toate nevoile clientilor nostri,

de incredere pe termen lung si de colaborare cu clientii si furnizorii principali, am reusit sa cream o companie veche de 25 de ani, care face parte dintre cele mai bune de pe piata.

Recompensa noastra cea mai mare in toti acesti ani este increderea pe care clientii nostri corporativi o demonstreaza, prin preferinta lor, mai ales atunci cand ele se bazeaza pe noi pentru finalizarea proiectelor mari si provocatoare.

In acest moment important pentru GRUPUL nostru, am dori sa ne angajam in continuarea relatiilor ce le-am construit cu dumneavoastra, oferindu-va experienta si creativitatea noastra, efort si sinceritate, ca o garantie a activitatilor noastre viitoare.

Fiind deja echipati cu tehnica si pricepere si cu o experienta de 25 de ani, privim spre viitor cu acelasi angajament si dorinta, pentru a stabili noi standarde care sa satisfaca nevoile dumneavoastra.

Based on our principals for high quality standards, flexible and rapid after sales service, technological support for all our customer needs, and long term confidence and cooperation with customers and key suppliers, we have succeeded in creating a 25 year old company which belongs among the best in the market.

Our greatest reward all these years is the trust that our corporate customers demonstrate through their preference, especially when they rely on us for the completion of hard and challenging projects.

At this important point for our GROUP, we would like to commit ourselves to the continuance of the relations we have built with you, offering our experience and creativity, effort and forthrightness, as a guarantee of our future activities.

Having already been equipped with the technical know-how and the 25-years experience, we look to the future with the same commitment and eagerness to set new standards and satisfy your needs.

CINCI COMPANII, UN GRUP

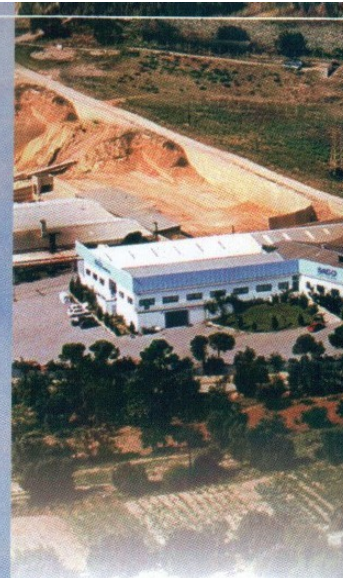
SABO SA este o companie greceasca ce se ocupa cu proiectarea si fabricarea de echipamente industriale.

Compania a fost infiintata in 1984 si este formata din cinci companii independente.

FIVE COMPANIES ONE GROUP

SABO SA is a Greek company that involves with the design and manufacturing of industrial equipment.

The company was established in 1984 and consists of five independent companies.



Proiecte de anvergura si instalatii la cheie.

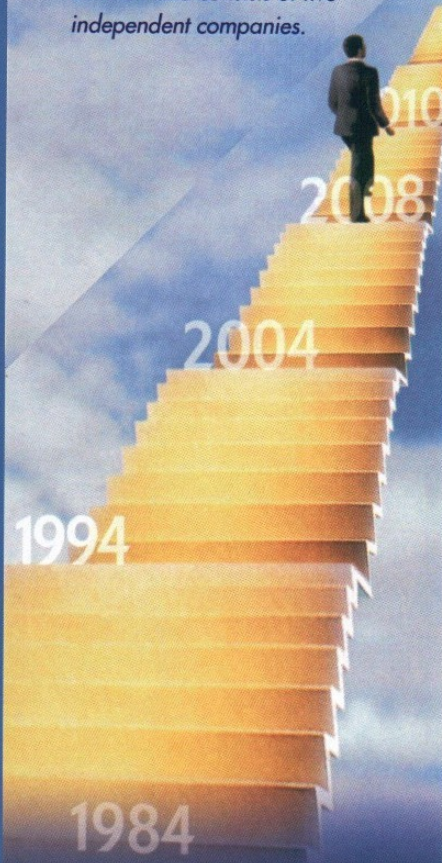
Proiectare, constructie si montare de instalatii pentru industria caramizii si a tiglei.

Proiectare, constructie de utilaje pentru industrie in general. Sisteme de ambalare, paletizare, manevrare si transport.

Large scale projects & turn key plants.

Design, construction and installation of machinery for the brick & tile industry.

Design, construction of machinery for the general industry. Packaging, palletizing, handling and conveying systems.





Construcție, intretinere și modernizare de clădiri industriale.

Construirea de cuptoare și uscătoare pentru industria de cărămidă și țiglă.

Construirea de porturi, de sisteme de drenaj hidraulic, de drumuri publice și private cu utilizarea de utilaje moderne, cum ar fi echipamente de asfalt și excavatoare.

Construction, maintenance and modernization of industrial buildings.

Construction of kilns and dryers for the brick and the tile industry.

Construction of ports, hydraulic-drainage systems and both public and private roads with the use modern machinery such as asphalt equipment and excavators.



Placi de distribuție de medie și joasă tensiune.

Automatizări folosind sisteme de control PLC, SCADA.

Instalații electrice mașini-linii de producție, clădiri industriale și cablare structurată.

Vanzare de produse electrice industriale și echipamente.

Medium and low voltage distribution boards.

Automations using PLC, SCADA, control systems.

Electrical installation of industrial machinery-production lines, industrial buildings and structured cabling.

Sale of industrial electrical products and equipment.



Filieri pentru augeri, matrite și nuclee.

Strat anti uzură, cromare grea la piesele metalice ce prezintă uzură și rupere.

Dies for augers, moulds and cores.

Anti wear coating, hard chrome plating to metal parts showing wear and tear.



Proiectare și montare de instalații de energie solară la cheie, acoperișuri industriale și sisteme rezidențiale de energie solară.

Fabricarea de sisteme de tracare dublu axă.

Fabricarea de sisteme fixe de montare.

Design and installation of turn key solar power plants, industrial roofing and residential solar power systems.

Manufacture of double axis tracking systems.

Manufacture of fixed mounting systems.



SABO S.A are o linie verticala de productie si dispune de urmatoarele departamente:

Taiere
Atelier mecanic fabrica
Preasamblare
Sablare nisip si vopsire
Asamblare finala
Instalatii electrice
Automatizare si testare

Atelierul SABO are strunguri conventionale si CNC, centre de prelucrare conventionale si CNC, cinci masini de gaurit axis CNC, CNC AGIE etc.

Nu in ultimul rand are departamente sablare nisip si vopsire, care au fost complet modernizate si echipate cu cele mai recente sisteme tehnologice de filtrare.

SABO S.A has a vertical production line and disposes the following departments:

Cutting
Machine shop works
Preassembly
Sand blasting and painting
Final assembly
Electrical installations
Automation and Tests

SABO'' s machine workshop has conventional and CNC lathes, conventional and CNC machining centers, 5 axis CNC boring machines, CNC AGIE etc.

Last but not least has the sand blasting and painting departments wich have been fully modernized and equipped with the most recent technological filtering systems.





SISTEME DE MANEVRARE SI TRANSPORTARE

Proiectare, fabricare si montare de sisteme de manevrare contemporane pentru transportul produselor ambalate si a materialelor vrac.

Buna manevrare a produselor/marfurilor, in randul etapelor de productie este una dintre cele mai importante probleme din industrie. SABO ocupa un departament tehnic capabil sa ofere solutii in functie de diversele nevoi ale fiecarei cereri, alegand sistemul de transport cel mai potrivit si luand in considerare natura materialului care urmeaza sa fie manevrat. SABO acopera toate tipurile de cereri de transporturi, de la transportarea simpla de produs pana la linii complicate cu sisteme de control complet automatizate.

Categoriile indicative de sisteme de manevrare si transport:

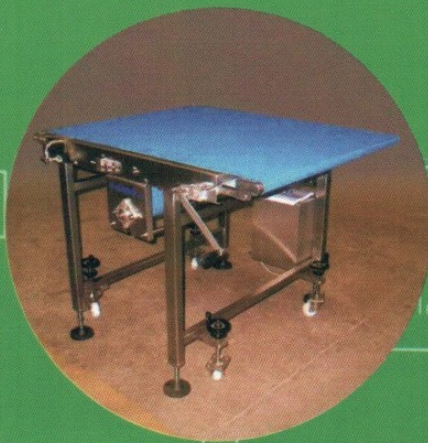
BENZI TRANSPORTOARE

ROLE BENZI TRANSPORTOARE

TRANSPORTOARE CU LANT-SISTEME DE TRANSFER
(sisteme schimbare directie)

ASCENSOARE/LOWERATORS

CONSTRUCTII SPECIALIZATE



HANDLING AND CONVEYING SYSTEMS

Design, manufacturing and installation of contemporary handling systems for transporting packed products and bulk materials.

Good and product handling among production stages is one of the most important issues in industry. SABO occupies a technical department able to offer solutions according to the diverse needs of each application by choosing the most suitable transport system and taking into account the nature of the material to be handled. SABO covers all kind of transports demands from simple product conveying to complicated lines with fully automated control systems.

Indicative categories of handling and transporting systems:

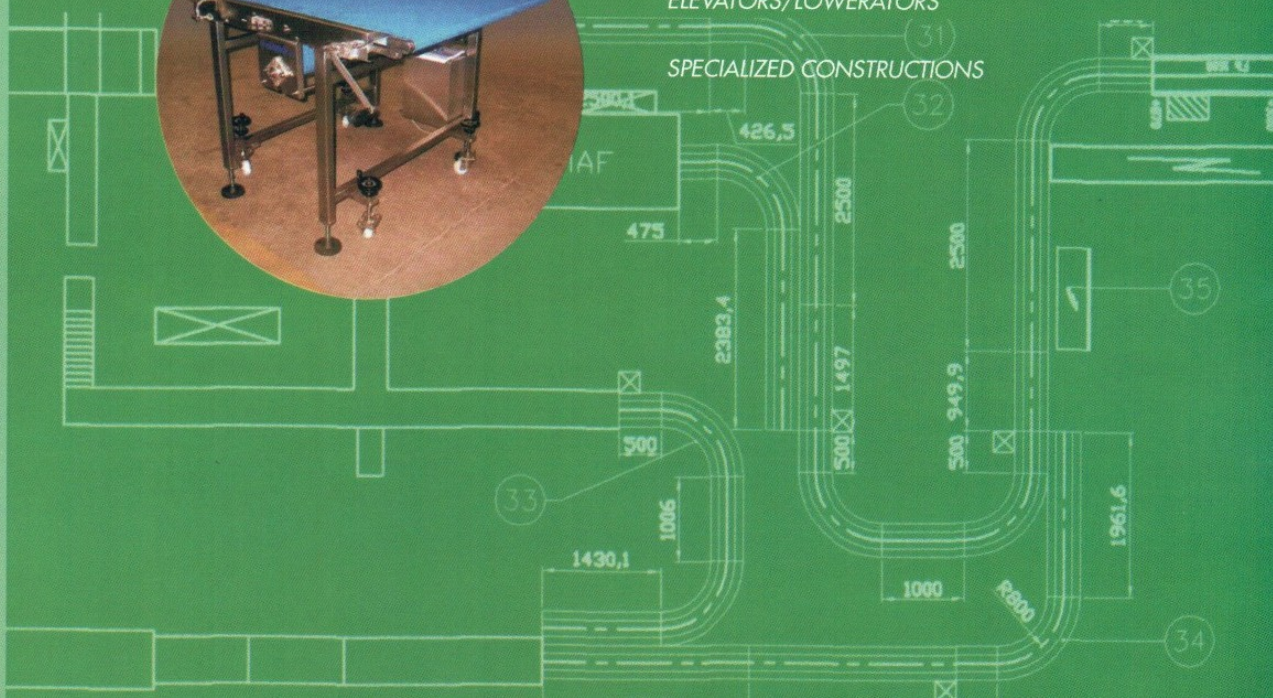
CONVEYORS

ROLLER CONVEYORS

CHAIN CONVEYORS-TRANSFER SYSTEMS
(DIRECTION CHANGE SYSTEMS)

ELEVATORS/LOWERATORS

SPECIALIZED CONSTRUCTIONS



BENZI TRANSPORTOARE

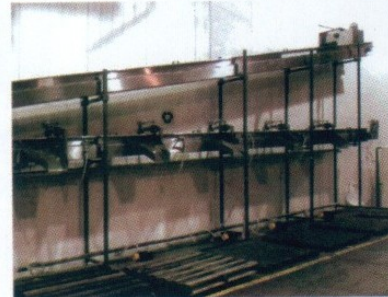
Benzile transportoare sunt utilizate pentru transportul de cutii de carton, saci, produse termo termale, paleti etc. Sunt proiectate intr-un mod ce satisface diversele nevoi ale fiecărei aplicatii.

Transportorii de acest fel pot fi facuti din inox cu capacitatea de a regla inaltimea picioarelor sau de a fi construite dintr-un cadru metalic, care a suferit trei etape de tratament (sablare si doua etape de vopsea rasina epoxidica)

BELT CONVEYORS

Belt conveyors are used for transporting carton cases, bags, thermo shrunk products, pallets etc. Are designed in a way that satisfy the diverse needs of each application.

Conveyors of that kind can be either made by inox with the ability to adjust the legs height or being constructed by a metallic frame that has endured three treatment steps (sand blasting and two stages of epoxy resin paint).



TRANSPORTOARE CU LANT

Transportoarele cu lant sunt utilizate in principal in industria alimentara si de imbuteliere nu doar pentru produse impachetate sau neimpachetate ci deasemenea pentru produse impachetate in cutii de carton. Sunt proiectate intr-un mod ce satisface diversele cerinte ale fiecarei aplicatii.

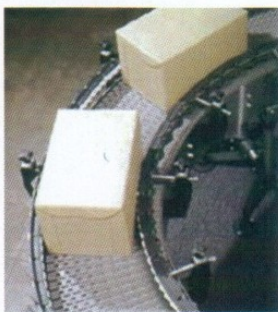
Transportorii de acest fel pot fi facuti din inox cu capacitatea de a se regla inaltimea picioarelor sau de a fi construiti dintr-un cadru metalic, care sufera trei etape de tratament(sablare si doua etape de vopsea rasina epoxidica)



CHAIN CONVEYORS

Chain conveyors are mainly used in food and bottle industries not only for packed or unpacked products but also for products packed in carton cases. Are designed in a way that satisfies the diverse needs of eah application.

Conveyors of that kind can be either made by inox with the ability to adjust the legs height or being constructed by a metallic frame that has endured three treatment steps (sand blasting and two stages of epoxy resin paint)



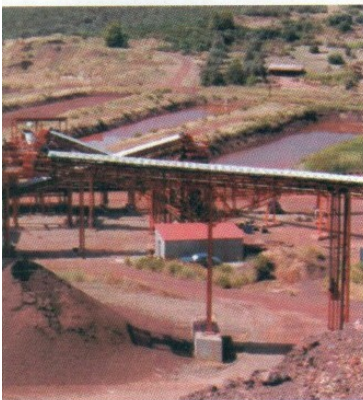
TRANSPORTOARE PROFIL V

Transportoarele in forma de V sunt benzi construite dintr-un cadru metalic care a suferit un tratament sablare si vopsire cu rasini epoxidice. Banda elastica este plasata pe role in forma de V si serveste pentru a fi transportate materiale in vrac, de exemplu. minerale si ingrasaminte etc.



V SHAPED CONVEYORS

V shaped conveyors are conveyors constructed by a metallic frame which has endured sandblast treatment and epoxy paint. The elastic belt is placed on V shape rollers and serves to be transported bulk materials as for example minerals and fertilizers etc.



TRANSPORTORI CU ROLE

Transportorii cu role sunt utilizati pentru transportul de cutii de carton, ambalaje si produse pe paleti. Transportorii de acest fel pot fi facuti din inox cu capacitatea de a regla inaltimea picioarelor sau de a fi construiti dintr-un cadru metalic care a suportat trei etape de tratament (sablare si doua etape de vopsire cu rasina epoxidica). Rolele folosite sunt ale celor mai recunoscuti constructori, de exemplu, INTERROLL si pot fi galvanizate, din material plastic sau cauciucat. Deplasarea este realizata de un motoreductor electric.

In afara de rolele transportoare care sunt mentionate mai sus, mai pot fi construite, de asemenea, importante transportoare cu role.



ROLLER CONVEYORS

Roller conveyors are used for the transport of carton cases, packs and products on pallets.

Conveyors of that kind can be either made by inox with the ability to adjust the legs height or being constructed by a metallic frame that has endured three treatment steps (one of sand blasting and two stages of epoxy resin paint). The rollers used are of the most recognized constructors as for example INTERROLL s and may be galvanized, plastic or rubberized. Movement is achieved by an electric geared motor.

Besides the roller conveyors that are mentioned above gravity roller conveyors may be constructed also.



**TRANSPORTOARE CU LANT
SISTEM DE TRANSFER
(SCHIMBAREA DIRECTIEI)**

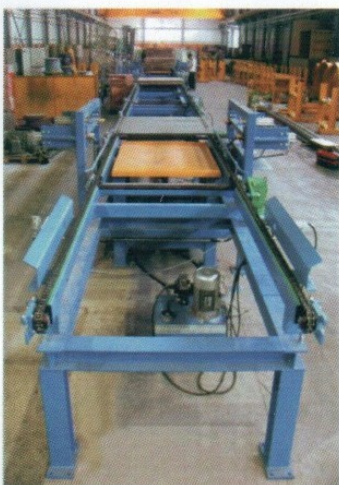
Transportoare cu lant combinate cu transportoare cu role si cota pneumatica sau electromecanica sunt utilizate pe scara larga pentru aplicatii in care schimbarea miscarii este esentiala. Acestea sunt ideale pentru transport paleti si/sau transporturile grele si voluminoase.

In sistemele de acest tip transportorul este fie un lant simplu fie un lant filmat ajustat la cadrul metalic. Sistemul functioneaza cu ajutorul unui motoreductor.

**CHAIN CONVEYORS-
TRANSFER SYSTEMS
(DIRECTION CHANGE)**

Chain conveyors combined with roller conveyors and pneumatic or electromechanical elevation are used extensively to applications that shift in movement is essential. These conveyors are ideal for transporting pallets and/or heavy and bulky shipments.

In systems of that kind the carrier is either a simple chain or a coated chain adjusted to the metallic frame. The system moves with the help of gear motor.



ASCENSOARE / DISCENSOARE

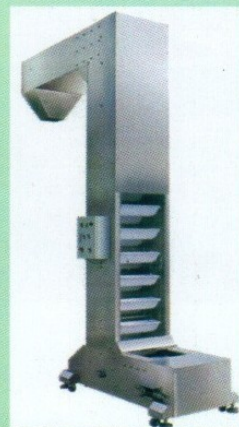
Ascensoare / Discensoare pot fi impartite in doua categorii:

A) Ascensoare/discensoare pentru ridicarea sau coborarea de produse.

Utilizate pentru alimentarea transportorilor centrali ce sunt plasati pe diferite niveluri de inaltime. Adecvate pentru cutii de carton, produse in paleti si pentru sisteme automatizate de depozitare.



B) Ascensoare/discensoare cu galeti. Utilizate in aplicatii cu o nevoie de materiale in vrac, cum ar fi minerale, ingrasaminte, produse alimentare si multe altele pentru a muta pe verticala si de a fi transportat numai in aceasta directie.



ELEVATORS/LOWERATORS

Elevators / Lowerators can be divided in two categories:

A) Elevators/lowerators for the elevation or descent of products. Used for feeding central conveyors which are placed in levels of different height. Suitable for transport carton cases, products in pallets and for automated storage systems.

B) Elevators/lowerators with buckets. Used in applications with a need bulk materials such as minerals, fertilizes, food and many others to move vertically and be transported only in that direction.



CONSTRUCTII SPECIALE

SABO Hellas S.A. are capacitatea de a proiecta, construi, fabrica si testa utilajele non standardizate, in functie de nevoile diverse de productie ale clientilor.

De asemenea, se pot combina utilaje si automatizari, in scopul de a produce linii de productie integrata.



SPECIALIZED CONSTRUCTIONS

SABO Hellas S.A. has the ability to design, construct, manufacture and test non standardized machineries according to the diverse customer production needs. It can also combine machinery and automation in order to manufacture integrated production lines.

SISTEME DE PALETIZARE SI AMBALARE

SABO S.A., cu o experienta de multi ani in sisteme de paletizare si ambalare, precum si cu sisteme de cooperare cu cei mai importanti producatori de gen, poate oferi o varietate de masini de incredere, in functie de nevoile clientilor nostri.

Acest tip de utilaj este utilizat pentru aplicatii cum ar fi formarea si inchiderea cutiilor de carton, ambalare, paletizare, depaletizare si in cele din urma infolierea paletilor pentru depozitare si transport.

PALETIZATOR IN STRATURI

PRELUARE SI PLASARE PALETI

DEPALETIZARE

MASINI INFOLIERE

MONTATORI CASE, AMBALATORI, CAPTUSITORI

PALLETIZING AND PACKAGING SYSTEMS

SABO S.A. with the experience of many years in palletizing and packaging systems and with the cooperation with leading manufacturers of the kind, can offer a variety of reliable machinery, according to the needs of our clients.

That kind of machinery is used for applications such as forming and sealing of carton cases, packing, palletizing, depalletizing and finally wrapping of the pallet for storage or shipping needs.

LAYER PALLETIZERS

PICK AND PLACE PALLETIZERS

DEPALLETIZERS

WRAPPING MACHINES

CASE ERECTORS, PACKERS, SEALERS

PALETIZATOR IN STRATURI

SABO S.A. proiecteaza si produce paletizatori in strat de nivel scazut pentru productii de pana la 600 buc./ora si paletizatori in strat de nivel inalt pentru productii de pana la 1200 buc./ora, pentru produse cum ar fi cutii de carton, saci, etc.



LAYER PALLETIZERS

SABO S.A. designs and manufactures low level layer palletizers for productions up to 600 pcs/hr and high level layer palletizers for productions up to 1200 pcs/hr, for products such as carton cases, bags etc.



PALETIZATOR IN STRATURI

SABO S.A. proiecteaza si produce paletizatori in strat de nivel scazut pentru productii de pana la 600 buc./ora si paletizatori in strat de nivel inalt pentru productii de pana la 1200 buc/ora, pentru produse cum ar fi cutii de carton, saci, etc.



PICK AND PLACE PALLETIZERS

Palletizers with high flexibility and easy installation into existing production lines.

Pick and place palletizers consists of one head witch in moving in three axis. That head can be a gripper or a head with vacuum, which is always being designed according to the different type of product which is being palletized.

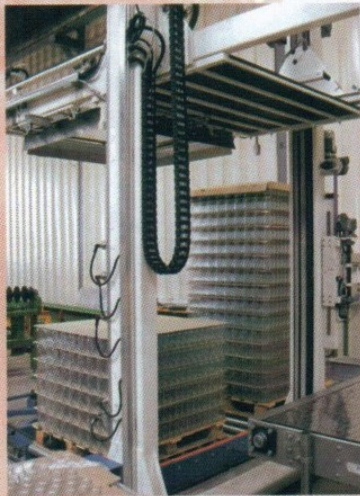
PRELUARE SI PLASARE PALETI

Paletizatori cu grad ridicat de flexibilitate si instalare usoara in liniile de productie existente. Paletizatorul consta intr-un cap care se misca in trei axe. Acest cap poate fi cu clesti sau cu vid care este intodeauna proiectat in functie de diferitele tipuri de produse in curs de paletizare.



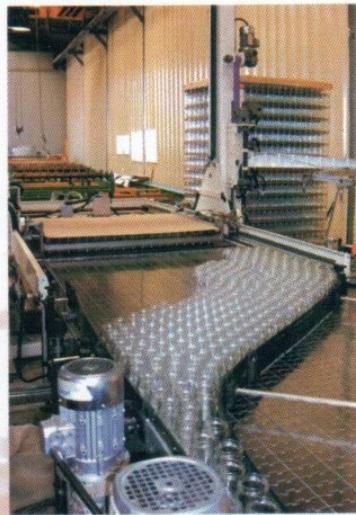
DEPALETIZATORI

Utilaje cu specificatii speciale si de inalta precizie pentru depaletizarea produselor.
 Cea mai comuna este depaletizarea de sticle goale in productie automatizata si linii de imbuteliere.



DEPALETTIZERS

*Machinery with special specifications and high precision for the depalletizing of products.
 A most common application is the depalletizing of empty bottles in automated production and bottling lines.*



MASINI DE IMPACHETARE

SABO S.A. in calitate de reprezentant oficial al companiei italiene OMS ofera o varietate de masini de impachetare.
 Gama include masini complet automate sau semiautomate de ambalare paleti sau produse ambalate(nesituate intr-un palet). pregatite pentru stocare sau pentru transport mare.

Masinile de ambalare sunt impartite in categoriile de mai jos:

- Masina de legat cu banda de poliester si polipropilena.
- Utilaje thermoshrinking- scadere termica
- Masini capace cu folie stretch.
- Masini de ambalare cu placa turnanta rotativa sau brate rotative si pelicule elastice

Deasupra tuturor masinilor pot fi instalate, fie ca sta de-a lungul unitatii in zonele de ambalare sau pot fi setate in linii de ambalare complet automatizate.



WRAPPING MACHINES

SABO S.A. as an official representative of the Italian OMS company offers a variety of wrapping machines.

The range includes fully automatic or semiautomatic machines for wrapping pallets or packed products (not situated in a pallet) ready for storage or shipping.

Wrapping machines are divided in the below categories:

- Strapping machines with polyester and polypropilene strap.
- Thermoshrinking machines.
- Hooding machines with stretch film.
- Wrapping machines with rotating turntable or rotating arm and stretch film.

All of the above machines can be installed either as stand along units in packaging areas or can be set in fully automated packaging lines.

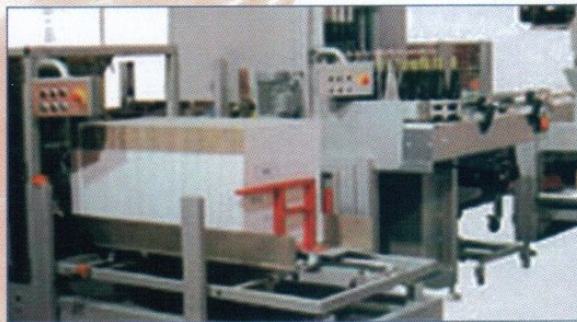


MASINI DE MONTAT CAZ , DE AMBALAT, DE CAPTUSIT

In cooperare cu firme din cele mai recunoscute de operare in strainatate, cum ar fi DNC, EXTEND si multe altele, SABO ofera montatori caz automati sau semi-automati, etansatoare si ambalatori caz cu banda adeziva sau ciment incalzit, precum sistemele utilizate pentru ambalarea produsului

CASE ERECTORS, PACKERS, SEALERS

In cooperation with the most recognized firms operating abroad such as DNC, EXTEND and many others, SABO offers automated or semiautomated case erectors, sealers and case packers with self-adhesive tape or warmth cement as well as systems used for product packing.



ROBOTI / SISTEME ROBOTIZATE

SABO SA, in exclusiva colaborare cu toata lumea bine cunoscuta din domeniul de sisteme robotizate, FANUC ROBOTICS, ofera industriei avansate solutii tehnologice pentru aplicatii in domenii, cum ar fi:

- AMBALARE
- PALETIZARE
- MONTARE
- MASINA INCARCARE/DESCARCARE
- SUDARE LA IMBINARI

SABO SA are programatori si ingineri foarte bine pregatiti care pot sa sustina tehnic atat programarea cat si intretinerea sistemului robotic oferit.

Departamentul de inginerie extrem de experimentat impreuna cu atelierul tehnologic avansat poate proiecta si construi sistemul de prindere ideal pentru robot, in functie de necesitatea clientului si de aplicatie.

Fotografiile indicative pentru sisteme de instalatii robotizate, standarde ridicate contemporane pe care SABO SA le angajeaza ca priecte. Linii de productie complet automate montate in instalatii pentru clienti.



ROBOTS / ROBOTIC SYSTEMS

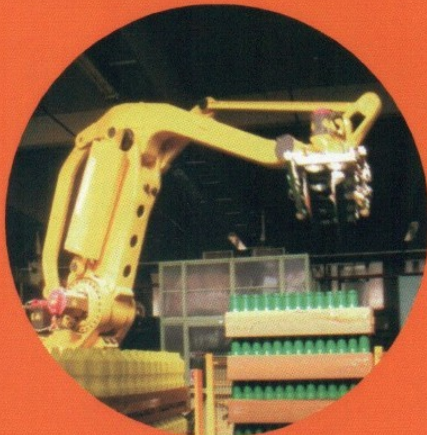
SABO SA, with its exclusive collaboration with the world well wide well known in the area of robotic systems, FANUC ROBOTICS, offers to the industry advanced technological solutions for applications to areas such as:

- PACKING
- PALLETIZING
- ASSEMBLY
- MACHINE LOADING/UNLOADING
- WELDING

SABO SA occupies highly trained programmers and engineers able to support technically both programming and maintenance of the robotic system being offered.

The highly experienced engineering department in combination with the advanced technology workshop can design and construct the ideal gripper for the robot according to the customer need and application.

On the right: indicative photos of contemporary high standard robotic system installations that SABO SA has undertake as projects. Fully automated production lines installed in plants to costumers.



From engineering design to complete plants



INSTALATII ALIMENTARE SOLARE-ENERGY PRODUCTION SYSTEMS



From engineering design to complete plants

CONSTRUCTII INDUSTRIALE SPECIALE

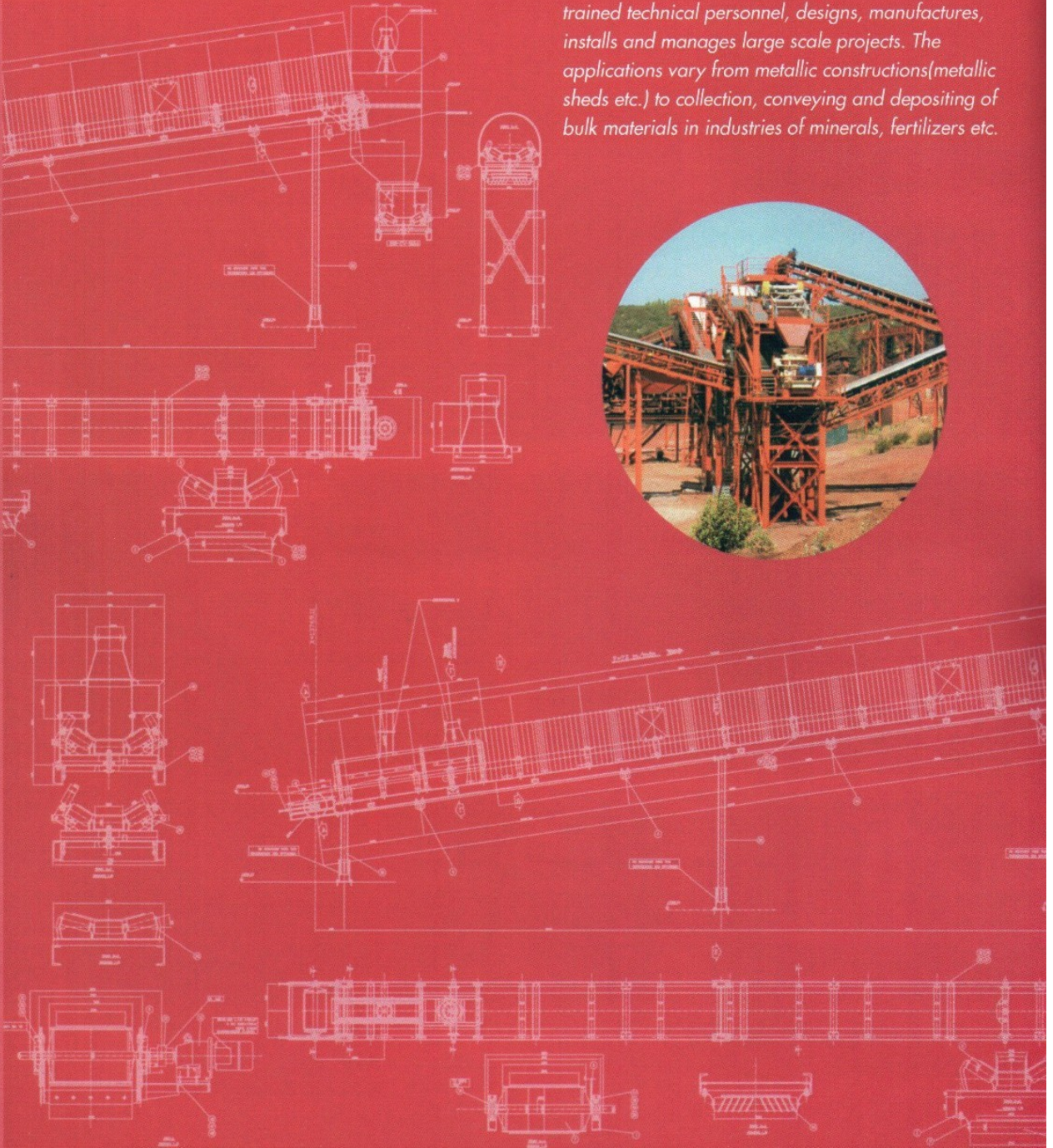
SABO SA, cu o experienta de multi ani in industrie, cu premise standard si moderne, cu echipamente tehnologice avansate, precum si personal tehnic pe deplin instruit, proiecteaza, produce, instaleaza si gestioneaza proiecte la scara larga. Cererile variaza de la constructii metalice(hale metalice, etc.) pentru colectarea, transportul si depozitarea de materiale in vrac, in industriile de minerale, ingrasaminte etc.

SPECIAL INDUSTRIAL CONSTRUCTIONS

SABO SA with the experience of many years in the area industry, with the standard and modern premises, the advanced technological equipment and fully trained technical personnel, designs, manufactures, installs and manages large scale projects. The applications vary from metallic constructions(metallic sheds etc.) to collection, conveying and depositing of bulk materials in industries of minerals, fertilizers etc.



CONSTRUCTII INDUSTRIALE SPECIALE - SPECIAL INDUSTRIAL CONSTRUCTIONS



From engineering design to complete plants



CONSTRUCTII INDUSTRIALE SPECIALE - SPECIAL INDUSTRIAL CONSTRUCTIONS

From engineering design to complete plants

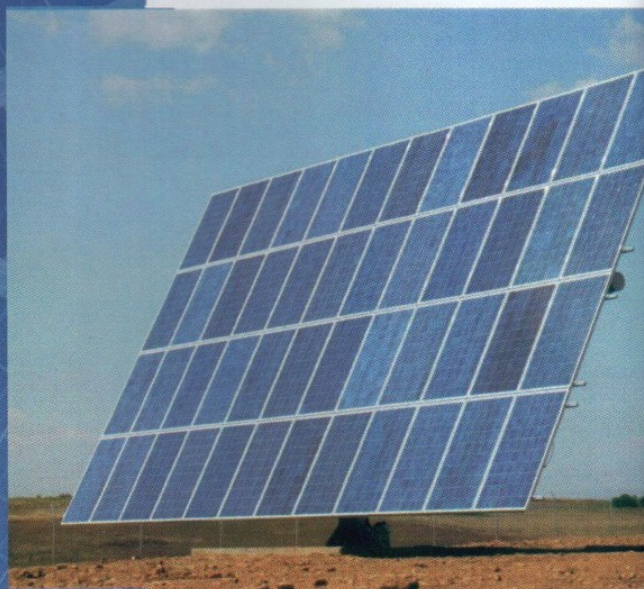
INSTALATII ALIMENTARE SOLARE - ENERGY PRODUCTION SYSTEMS

INSTALATII ALIMENTARE SOLARE

Cu experienta in constructii industriale, echipamente si resurse umane foarte bine pregatite, SABO SA merge direct in sectorul surselor regenerabile de energie. In special in instalatii solare in domenii, fie cu sisteme de monitorizare cu dublu axe, fie cu sisteme fixe.

SOLAR POWER PLANT

With the experience of industrial construction, the equipment and the highly trained human resource, SABO SA jump in the sector of renewable energy sources. Especially in solar power plants fields, either with double axis tracking systems either with fixed systems.

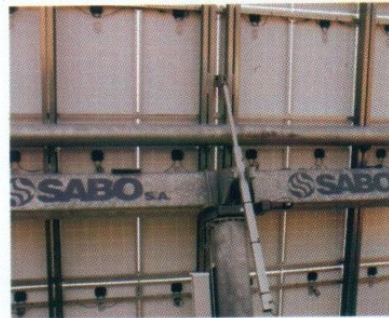
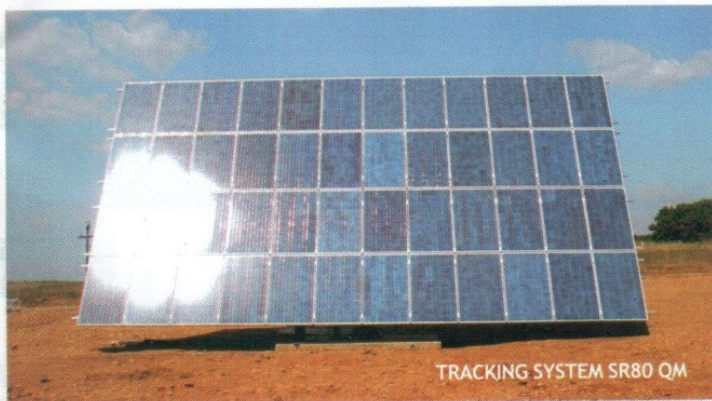


FABRICAREA SISTEMELOR DE MONITORIZARE

SABO S.A raspunde simultan cerintelor actuale de piata pentru optima productie de energie de la soare, de proiectare si fabricarea unei serii de sisteme cu una sau doua axe de monitorizare, precum si sisteme fixe de montare.

MANUFACTURE OF TRACKING SYSTEMS

Simultaneously SABO S.A responding to the current needs of nowadays market for optimal energy production by the sun, designs and manufactures a series of one and double axis tracking systems as well as fixed mounting systems.



INSTALATIILE LA CHEIE

SABO ofera industriei solutii complete de constructii, echipamente si linii de productie la standarde inalte, cu tehnologii avansate.

Indicativ al acestei abilitati este capacitatea de a stabili instalatiile la cheie necesare noilor stabilimente, din Grecia si din strainatate, instalatii ce sunt livrate complete clientilor.

Cu alte cuvinte, angajeaza toate proiectele stabilite, de la inceput pana la sfarsit si preda lucrarea la cheie in mana . Cateva exemple de instalatii la cheie sunt:

- Constructia instalatiei de la CARDICO, in zona Schimatari, Viotia;
- Constructia a trei cladiri industriale metalice pentru compania Neoset;
- Constructia a trei instalatii pentru compania VAVOULIOTIS-GOUNARIS-MITAKIS;
- Constructia instalatiei de la BRICK ITALY in Italia. etc.

TURN KEY PLANTS

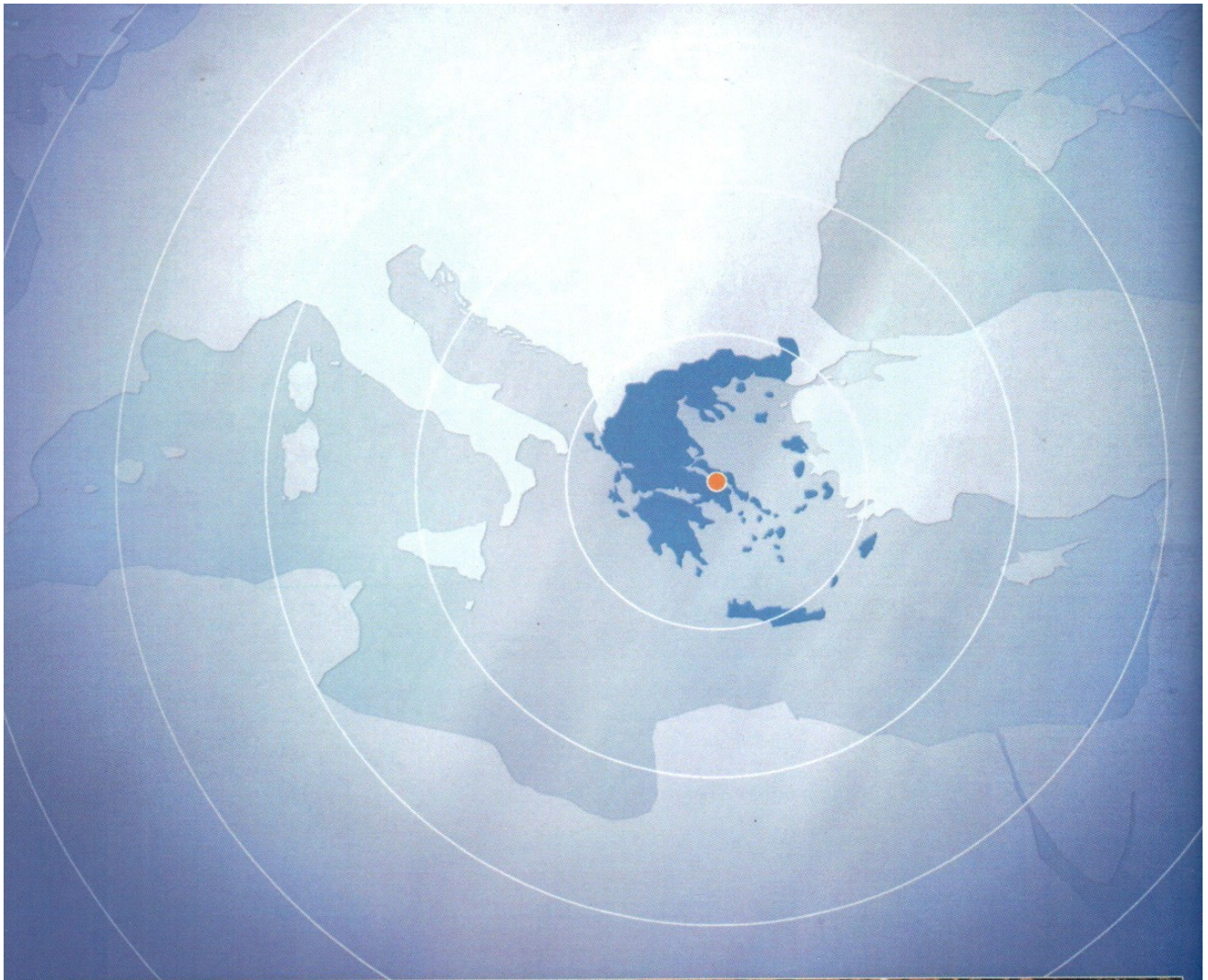
SABO offers to the industry complete construction solutions, equipment and high standard production lines of advanced technology.

Indicative of this ability is the set out of turn on key constructions for new established plants in Greece and abroad that are delivered completed to the customer. In other words undertakes the total set up of the project(plant) from the beginning till the end and delivers the factory with the key on hand. Some examples of turn key plants are:

- Construction of CARDICO plant in Schmatari area, Viotia;*
- Construction of three metallic industrial buildings for NEOSET company;*
- Construction of plant 3 for VAVOULIOTIS-GOUNARIS-MITAKIS company;*
- Construction of BRICK ITALY plant in Italy etc.*



		B/S/H/			



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