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 **platin**[®]
endüstriyel
elektronik & serigrafi



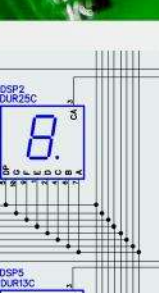
ALARM SE...
ALARM TYPE
D1 POWER FAIL
D2 CONDENSER
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plati
endüstriyel
elektronik & sergisi



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maschinen Webs

EMERGENCY STOP



Established in 2006 in Bursa, Platin Endüstriyel Elektronik&Serigrafi is a firm that has adopted high quality production and constant development as a principle.

Our firm carries out activities in two main fields. The first one is the design and manufacture of industrial electronic devices for machinery and firms. The other field of activity is industrial screen-printed labels and panels.

Our firm aims to perform studies with the purpose of generating and manufacturing the designs to provide added value by introducing variety to your product and we make investments accordingly.

OUR MISSION

Our mission is to produce the industrial electronic and screen-printed products of the highest quality that are improved constantly and introduced variety and offer them to our customers and hence enable them to increase their added value.

OUR VISION

Our vision is to contribute to national industry in accordance with the principles of high customer satisfaction, constant development, respect to people and environment.



technological

Electronic Board Design for Machinery and Firms

Electronic systems are now being integrated with machines. Accordingly, Platin Endüstriyel Elektronik performs the design and production of industrial electronic boards completely specific to your machine to ensure the control of it. You can make differences using the industrial electronic boards specific to your machine.

Our journey introducing differences to you can be described by the following processes.

Product Description Process

It is the process of describing technical details and specifications of our product that will replace the control devices you have used in your machine.

Costing and Contracting Period

It is the process by which we determine the most proper price through calculating all costs as items and make our cooperation official during our journey that we create difference by upgrading the technology of your machine without increasing the costs of raw materials.

The First Prototype and Interface Design

The first prototype is highly important. The prototype product that will demonstrate that we speak the same language is produced in this process. Also, the design and generation of the control panel which is described as the face of your machine is performed in the same process.



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Design Verification and Sample Production

It is the process in which we agree to produce required number of samples following the completion of designing and prototype production in our journey of distinction.

Field Tests

Field tests are considerably significant. We complete functionality controls in this process by inserting the sample productions to your machines and conducting one to one tests.

Revision and Preparation Process for Serial Production

In this process, we complete the preliminary preparations for the final product by making improvements and revisions as a result of the field tests if necessary.

Life Cycle Tests

In industry, the life cycle of electronic devices are identified as 10 years. Therefore, life cycle of the design created specific to your machine shouldn't leave you in the lurch. Accordingly, durability tests of the produced design for various industrial conditions are conducted in this process.

Serial Production Acceptance

It is the process in which we mutually accept the product that has undergone the above-mentioned processes to offer you differences.



Transition to Serial Production

This process is the last stop of our journey where we make the required preparations for production at the quantities specified in the joint contract and carry out serial production.

We act in accordance with the following principles throughout those processes of industrial electronic design and production to make significant contributions and differences for machine manufacturers:

- Producing designs specific to firms,
- Following the technological developments constantly and reflecting them to our designs,
- Focusing on our customer's difference,
- Making the proper design for the first time and every time,
- Providing our customers with various and economical options via benefit/cost approach.

Platin Endüstriyel Elektronik creates its designs and manufactures them by utilizing the following technologies:

- Electronic circuit designs
- Micro-processor software technologies
- Industrial design technologies
- Computer software technologies



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Designing and Manufacturing Industrial Electronic Devices

If you want to make changes in your design or you have designs that you are considering to redevelop and if you have any idea, but you have doubts how to realize it,

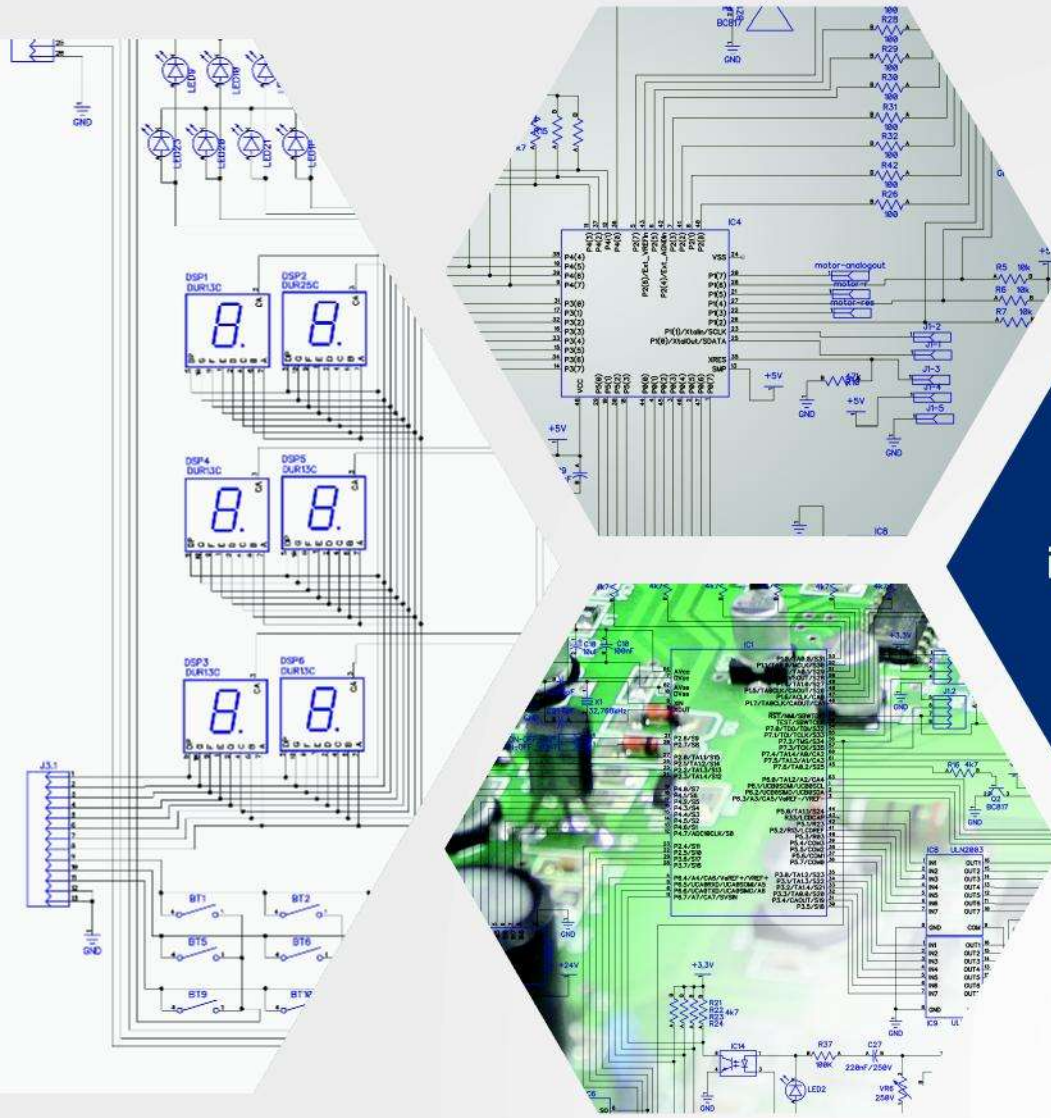
by working together,

we can create a product by bringing your idea and recent developments in electronic technologies together. We determine how the product would be, what features it would have, what type of consumers it would aim for. You may have a design. Your design may lack documentation. You may only have a PCB (Printed Circuit Board). You may have only a circuit diagram or it may just be a good idea. Whatever you have,

our job

is to make producible, cost-efficient, sturdy, secure, environment-friendly designs. When the design is completed, we make prototype PCB functional and subject it to field tests. Due to the data obtained from the field, the required revisions, if any, are performed and we make the product ready for serial production and we carry out serial production of it.

In accordance with our professional service principle, we aim to reach the most rational and proper solutions by discussing jointly at each stage of design and production.



industry leading

Generating an Open Diagram from PCB Circuit

For an operational circuit or device lacking its circuit diagram, a similar open diagram is generated following its analysis and even a version of diagram including the alterations made in accordance with your requirements is produced and delivered to you together with all documents that will be used for production.

Reproduction of ready boards is performed.

Electronic cards that you have are re-designed according to the required standards. Up to two fold, the electronic boards are redesigned by unfixing the components and the component scheme is made and rendered producible.

If desired, electronic diagram of the board, PCB data of which has been derived, can also be drawn. Small-scale production of PCBs is performed by us.



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SMD Typesetting

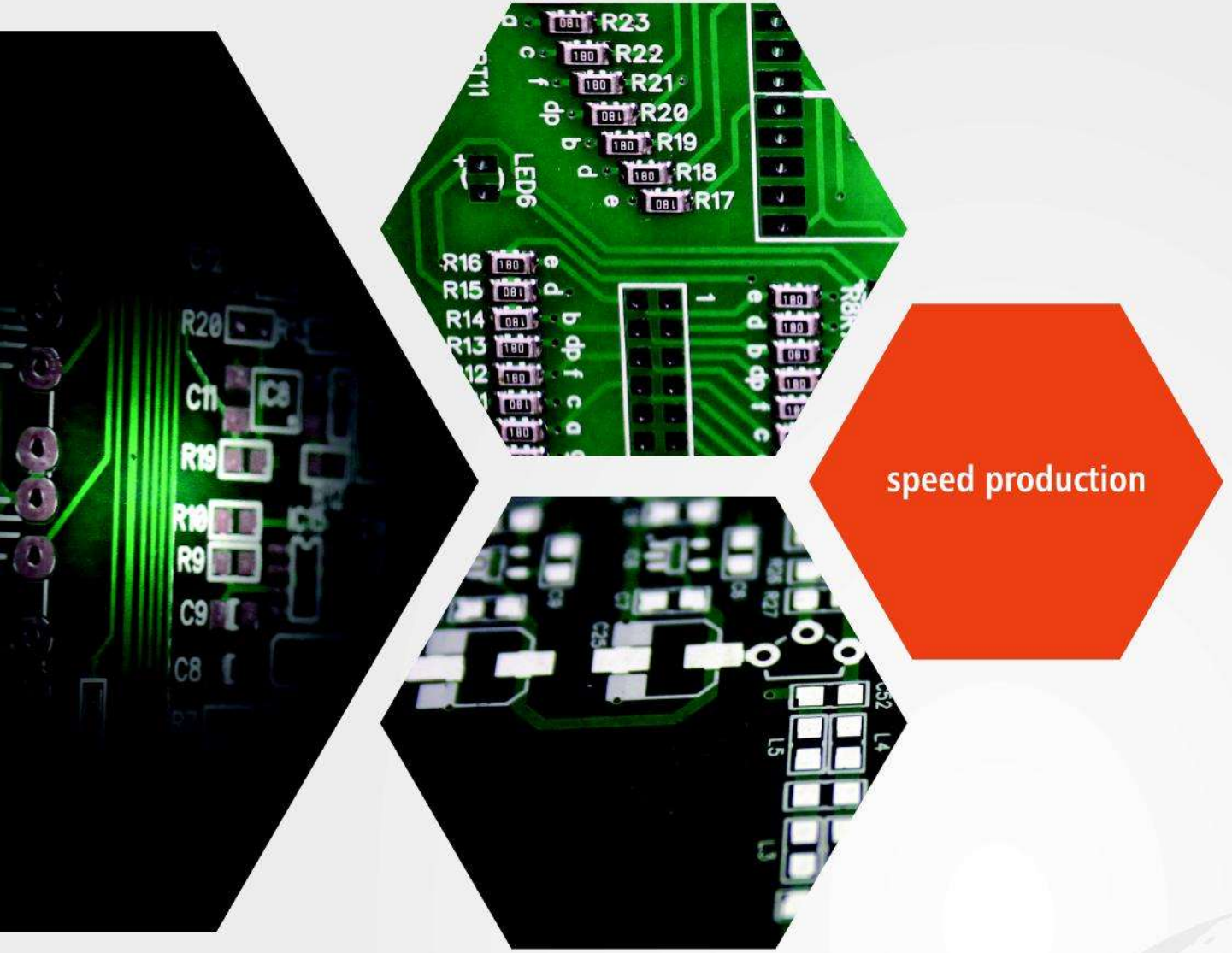
As Platin Elektronik, we provide our valuable customers with fast and high-quality solutions with single-sided or double-sided electronic boards with a typesetting capacity of 8000 components per hour via ESSEMTECT SMD typesetting machines possessed by us.

In SMD typesetting, we perform lead or lead-free soldering depending on the customer demands. Our SMD typesetting line can perform typesetting at PCB dimensions from 25mm*25mm to 400mm*300mm and a thickness between 0,5 and 3,5mm.

Following SMD typesetting, PCBs are baked with $\pm 0,5^{\circ}\text{C}$ temperature sensitivity and $\pm 1^{\circ}\text{C}$ PCB temperature deviation in our reflow oven with 5 heating zones that can be adjusted from room temperature to 300°C separately. Thanks to this technology, SMD typesetting is performed in accordance with the required temperature condition.

Following SMD typesetting and oven drying, PCBs are examined one by one and if there is any defect related to production process, it is found. The defective PCBs are revised and the defect is remedied. Thus, we deliver defect-free PCBs to our valuable customers.

Platin Elektronik is one of the leading firms that have the most advanced equipment and production techniques in the field of SMD and DIP typesetting in Bursa. With its experienced team, our firm serves our valuable customers for SMD typesetting and soldering of all electronic boards.



Electronic Board (Printed Circuit-PCB) Production

PCB- Printed Circuit Board- available in all electronic devices ensures the joint electric conduction of electric components that will be assembled on it. The tracks on printed circuit board are produced through various processes and the legs of electronic components are soldered on this surface. One of the components of PCB, "Solder Mask" is the non-conductive and painted part which is green or other colour. This mask protects the copper tracks on PCB and prevents the expansion of solder on the legs of electronic components and short circuit. "Assembly Printing" that consists of symbols to indicate the positions and types of electronic components is applied on this mask via screen-printing technique.

Through electronic open diagram drawing, Platin Endüstriyel Elektronik draws the electronic printed circuit and produces it.

PBCs that we produce can be single/ double-sided and also can have plated-through hole. Our production process starts following the receipt of required film outputs from PCB drawing files (GERBER) that you will send to us.

Also, we can perform Electronic Project Services and Prototype R&D Type- Printed Circuit Production.



Brand Name and Logo Labels

Today, brand names are highly important. Your brand name is seen as a signature on the product that you produce. Therefore, your brand name or logo must be compatible with your product and presented in the best way. Accordingly, Platin Endüstriyel Serigrafi tries to provide you with the best solution with its embossed logo labels and acid flux on lexan, pvc, metal and stainless material and self-adhesive products.

Machine Identification Labels

Machine identification labels feature the face of your product. The visual quality and ease of handling of your product depends on the labels and panel on it. Today, the presence of machines with user-interfaces is growing increasingly. Therefore, using the materials that are resistant to various external variables and industrial conditions and also screen-printing technique, Platin Endüstriyel Serigrafi produces aesthetic, user-friendly and modern panels and identification labels which are completely specific to your product.



Auxiliary and Warning Labels

The auxiliary and warning labels produced by Platin Endüstriyel Serigrafi using a printing technique which is suitable for the materials selected according to the place of use have maximum resistance to external variables and remain intact for a long time.

Lexan and PVC Panels

Through screen-printing, a special printing technique is applied on lexan and pvc material using any colour in the desired way. Since the printing appears between material and adhesive and the side facing outwards is made of lexan or pvc, it is never possible for the printing to be deleted and disappear. Thus, you can have a practical and long-lasting product. Although these panels are generally used in electric, automation, machinery production and electronic sector, they can be utilized in any field.

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Aluminium Labels

The procedures that can be performed on aluminium labels using screen-printing technique can be listed in 3 categories as described below. A procedure is applied following the selection of the printing technique according to the desires of customers and properties of product. It is aimed to use the most proper technique and ensure customer satisfaction. Aluminium labels are preferred especially in high-temperature places. Their resistance to temperature is higher than that of other labels. It is possible to attach or put a sticker behind aluminium labels via centring procedure.

High-Micron Aluminium Labels:

The printing which is applied using different operations on the material penetrates into aluminium. Thus, fading and discolouration due to sun is not possible in those labels. Even if the surface of material is scratched, there will be no scratches on the printing.

Acid Sinking on Aluminium:

An acidic stuff is poured by a special technique on the part of aluminium required to be sunk. Colouring procedure can be applied on this sunken part by pouring the paint of desired colour. Even if the paint washes out later, the label will be kept intact since this part is sunken.

Screen-printing on Aluminium:

Screen-printing is applied on aluminium via direct printing technique. It is possible to attach or put a sticker behind it via centring procedure.



Membrane Panels, Electronic Device Panels

The front panels of electronic devices feature the following properties:

Resistance to water, humidity and damp

Resistance to dust and weather

Aesthetic appearance and unlimited alternatives in graphic design of panels

Easy and fast cleaning

Non-wiping or non-fading of scripts, figures and symbols due to back-surface screen-printing technique.

Time saving due to easy panel assembly

Cos-effectiveness of minor orders since they are more economical than other systems

Embossed or normal buttons. The sense of pushing button is more perceivable on panels with embossed buttons.



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Multi Panels

The machine multi panels produced by Platin Endüstriyel Serigrafi are composed of 4 layers. These are respectively as follows: the protective folio that aims to protect the panel during process stages and can be detached by the end-user, Lexan or PVC, screen-printing paints constituting graphic and aluminium base. Since the printing is applied on the back-surface of polycarbonate which is highly durable material, the risk of scratching and wearing of panel and flaking of paint is eliminated.

Since the fastening is ensured by the studs behind the aluminium frame, there are no fasteners on the front part of panel and hence the aesthetic appearance is improved.

Resistant to ambient temperature between -40 and +130°C, the machine multi panels have resistance to solvents.

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