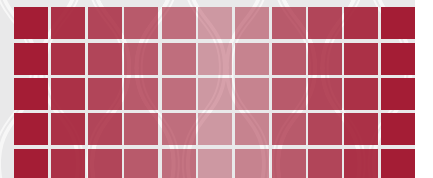


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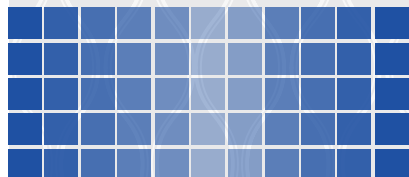
ABOUT BAK GRAVÜR

Bak Gravür's capability of manufacturing steel bodies of printing cylinders in its own facilities has always put it one step ahead in terms of delivery schedule, quality and customer satisfaction.

As a **Bakioğlu Holding** corporation, Bak Gravür Teknolojisi San. Tic. AŞ, started to operate in 1998 as part of the Bakioğlu-Wetzel partnership under the Wetzel title. In 2001, the company fully started to operate under Bakioğlu Holding as Enternasyonel Gravür Teknolojisi San. Tic. AŞ, becoming a leading rotogravure cylinder manufacturer in Turkey with major investments. Having changed its title from **Enternasyonel Gravür AŞ to Bak Gravür Teknolojisi San. Ve Tic. AŞ** in 2017 to integrate the titles under the roof of a single logo family, Bak Gravüre has been operating in Atatürk Organized Industrial zone in Çiğli, İzmir on an established facility area of 16,440 m² since 2001.

Having set off to manufacture cylinders for flexible packaging industry, Bak Gravür included into its range of products the cylinders used in printing security labels used in tobacco products, alcoholic drinks and product safety through its investments in 2005. Having achieved a quality level to provide a business partnership with industry-leading customers in Europe in a short time, **Bak Gravür** increased its production capacity up to 50.000 cylinders/year with the AutoCon line investment which it achieved in 2012 and became a sought-for supplier in those industries requiring the highest quality including tobacco packages through its Laser Cylinder Production Line which became operative in 2013. Bak Gravür's capability of manufacturing steel bodies of printing cylinders in its own facilities has always put it one step ahead in terms of delivery schedule, quality and customer satisfaction.

Keeping the satisfaction of employees, customers and all other stakeholders at the highest level, targeting a sustainable growth and having a perspective not making any sacrifice of quality, **Bak Gravür** proceeds on its way with the goal of being the most preferred, the biggest in Turkey and 3rd in Europe in the production of rotogravure printing cylinders.



MILESTONES

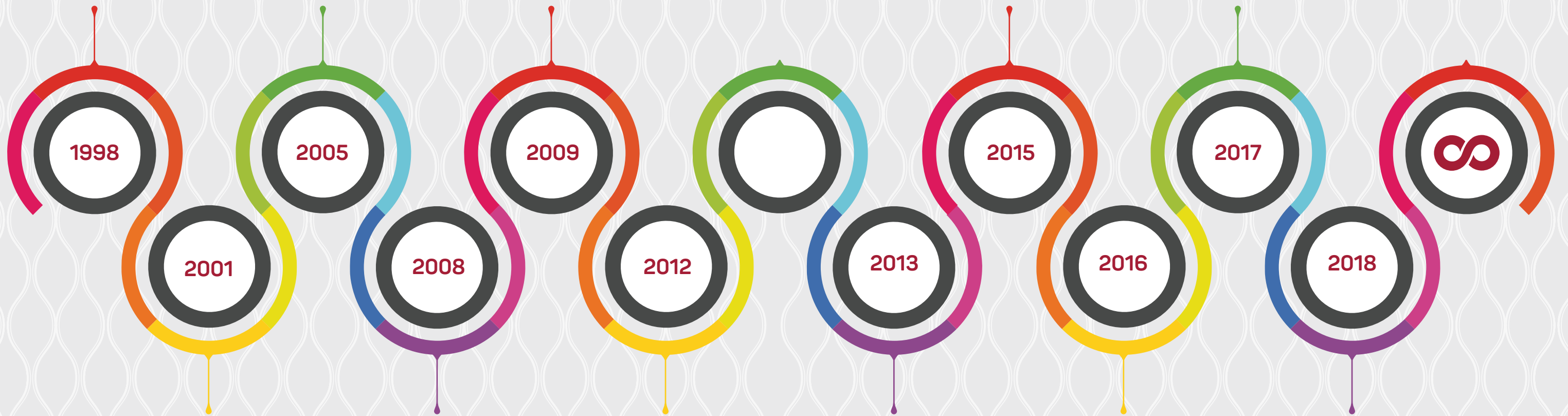
One of the Bakioğlu Holding companies, Gravure International started its operations under the tradename Wetzel A.Ş. as a partnership of the Bakioğlu and Wetzel in the Atatürk Industrial Zone at Çiğli/Izmir in 1998.

The company started to manufacture rotogravure printing cylinders for the industries producing safety labels used for alcoholic drinks and tobacco products as well as the flexible packaging industry thanks to its investment in the Hell K500 Engraving Machine.

Photopolymer plates started to be manufactured with the HelioFlex laser technology, and computer-aided flexo plate blocks started to be supplied at much higher resolution and high quality.

Qualified for ISO 14001 Environmental Management System certification

It changed its title from Enternasyonel Gravür AŞ to Bak Gravür Teknolojisi San. Tic. AŞ upon the need of integrating these titles under the roof of a single logo family.



After acquired entirely by the Bakioğlu Holding, the company has been the leading rotogravure cylinders manufacturer of Turkey through large-scale investments completed in a short time.

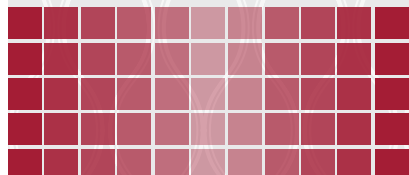
A special software application was developed and integrated into the production processes in order to ensure traceability in all production processes.

Manufacturing capacity was increased by the AutoCon line investment.

- › Investment in a new treatment plant which is monitored via a PLC-controlled SCADA automation system and which is a first in its area was put into use within the framework of compliance with laws and corporate social responsibility.
- › With its laser line investment, it started offering a wide range of products to its customers with two different production technologies as "Chemical Etching" and "3D Direct Laser"

- › Qualified for OHSAS 18001 Occupational Health and Safety Management System certificate
- › Increased production capacity with additional machine investment for automatic line
- › ESKO AUTOMATION ENGINE software has been invested in the digitalization of many processes of pre-press workflow.

- › In order to keep customer satisfaction at the highest level in Bak Gravure, the Customer Relationship Management (CRM) team has started to be managed professionally as a separate department.
- › In order to make the organization sustainable, to update to corporate information management infrastructure, to integrate with the international level the transition to the SAP system has been realized.



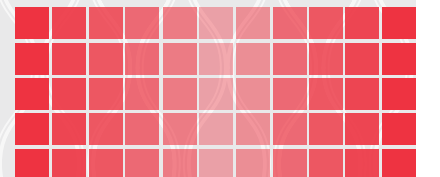


INDUSTRIES WE SERVE

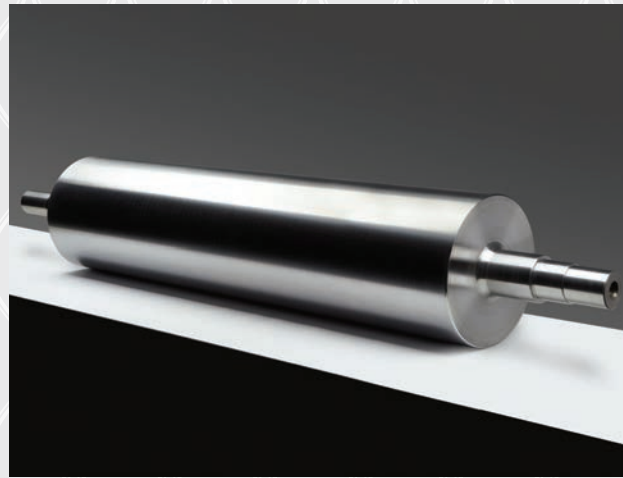
Flexible Packaging Industry

Flexible packaging industry is a sector which combines different products due to its diversity of printing materials and colour combinations. In this sense, the quality requirement is also the foreground in this sector. Rotogravure cylinders are preferred in the printing processes in order to achieve high quality of printing. Thanks to its experience in this market and with quality products complying with special customer requirements and standards, Bak Gravür aims to maintain its leading position in this market.

"Vibrant packages with rotogravure engraved cylinders"



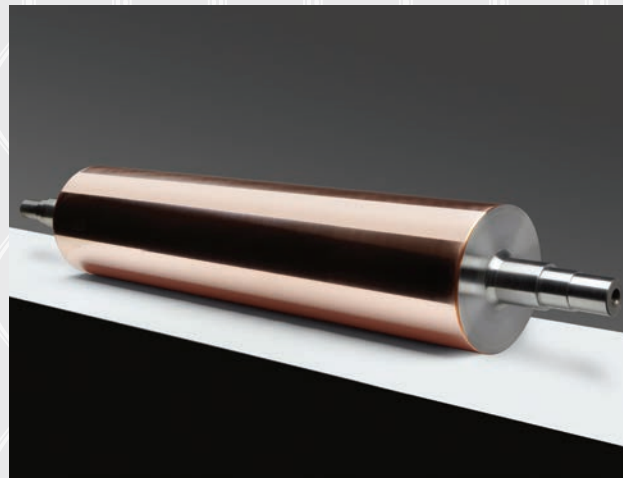
PRODUCTS



Steel Base Cylinders

Manufacturing well-balanced, shafted or hollow steel based cylinders with any required surface roughness, Bak Gravür achieves delivery in a short time through solutions satisfying the expectations of its customers in accordance with their special requirements.

The highest quality raw materials are used in the cylinders exported to many countries and the production is carried out according to the technical drawings of the customers.



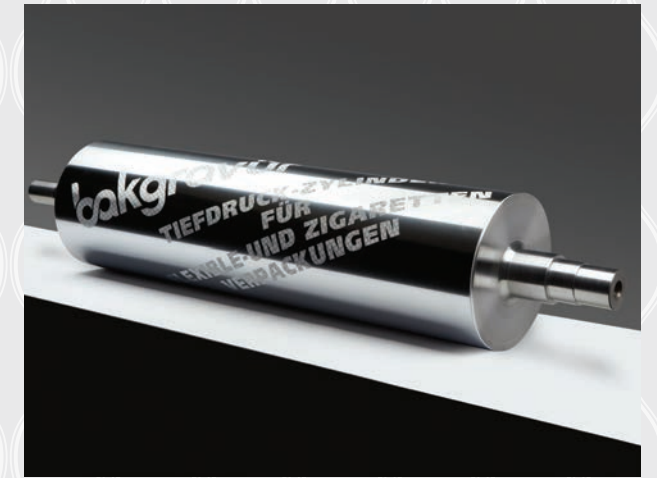
Ready To Engrave Cylinders

Steel base cylinders are copper coated and polished at requested surface hardness and roughness values for our customers ready to engrave.

PRODUCTS

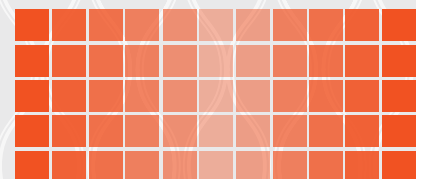
Rotogravure Printing Cylinders

Sustainable, repeatable, long lasting high quality rotogravure printing cylinders are manufactured with electromechanical, extreme, direct laser and laser exposed chemical etching engraving technologies, offering short setup times and high efficiency to our customers.



Laser Engraved Cylinders

Laser engraved cylinders for high quality printing results are manufactured with using direct laser and chemical etching methods to obtain cells at high precision with different shapes and different depths.



PREMIUM PRODUCTS



Printing Cylinders For Cigarette Filters

Cigarette filter paper printing cylinders which Tobacco Industry needs are manufactured with direct laser and chemical etching technologies.



Cylinders for the Tobacco Industry

Conscious of the fact that what makes package a package in the Cigarette Packaging Industry in which quality expectation is at the optimum level is the tactile elements and striking surfaces, Bak Gravür provides its customers manufacturing packages for this industry with its technical power, creative application proposals and the achieved product quality with substantial support and stands behind this structure which will reveal these details through technological investments improving with every elapsing day.

PREMIUM PRODUCTS

Security Label Cylinders

This product group containing secret security features and encoding mechanisms are preferred for their security infrastructure set up on confidentiality which is the priority of producers and for its technological power. High quality security label cylinders are manufactured with a systematic structure, security measures and customer focused approach.

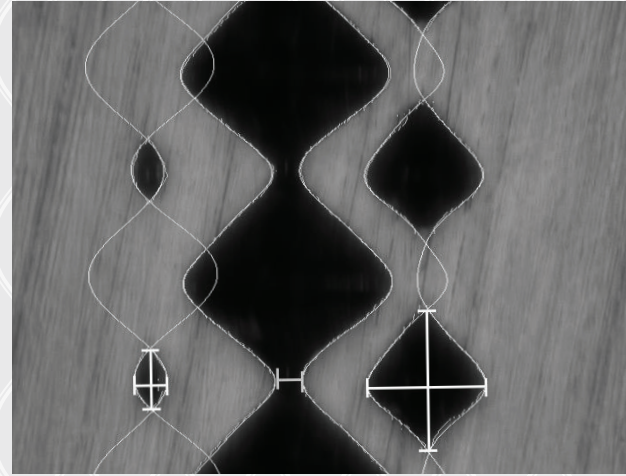


Decor Cylinders

Colour and embossing cylinders are manufactured for the "Decoration Industry" in which sharpness, depth, hue variance and dimension issues gain importance. Besides advisory services with which customers are provided during the process by expert engineers, the experienced graphics team contributes to applicability with their creative designing abilities. In the area of decor, such industries as Wallpaper, Textile, Leather, Tissue Paper, Gift Wrapping are among the customer groups served.



PREMIUM PRODUCTS



Transfer Cylinders

Cylinders providing ink transfer at any required amount in accordance with customer requirements are manufactured by using laser technology on cylinders with steel, aluminium or copper bodies with deep or different cell forms used for the transfer of high viscosity materials.



Embossing Cylinders

Bak Gravür carries out the manufacturing of embossing cylinders that carry packaging to the third dimension and make it tactile and offer creative and unique solutions. In addition to that, technical support is provided on step-by-step basis by rendering innovative and guiding advisory services on the applicability of any desired effect by experienced engineers on Embossing.

SERVICES

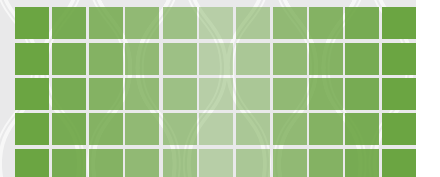
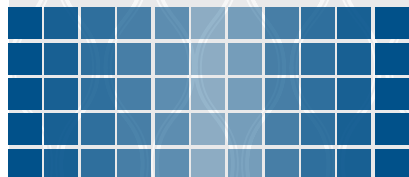
Contract Proof/ Cromalin

Contract proof, which is a printout of the colour separation process in Repro, reflects the closest reference for the final printing. The contract proofs presented to the customer after colour retouching processes prepared with the colour management technology used and made in accordance with the customer-specific colour profiles reflects Bak Gravür's service quality and experience in the area of colour management.



Cigarette Packaging Proof Prints (Barrel Proof)

In this application used to measure the feasibility of a new design, the companies carrying out the printing and manufacturing the cylinder implement a common operation with the ink company. In order to evaluate a new packaging or a new design, a preprint proof is taken with real cylinder and ink, thus creating a reference to colour and design. Trials are carried out until the desired result is achieved, and upon the final approval, the relevant work is standardised by taking the colour, processing method and values thereof as a reference.



SERVICES



Step and Repeat Quality Control Printout

All printing forms manufactured by Bak Gravür are inspected down to the finest detail. What is aimed by the inspection of the Plotter Printouts is to inspect accuracy of the technical parameters and the distribution thereof as well as of the printing and register marks.



Fingerprint

Fingerprint is indispensable in being capable of achieving a consistent result in different printing processes and printed designs. By measuring the printing characteristics, a profile is created by the colour management system software, and such characteristics are reflected on the actuals printing at the same proportion.



Printing Consultancy

The experienced team working on each stage of the process starting from technical feasibility of the product and preprint may also give support to customers during the printing.

SERVICES

Colour Retouch

What appeals to the end consumer and represents the packaging is the light, clarity and colour of the images thereon. Those producers who approve the packaging designs created by a certain marketing strategy want to see their acceptability in the final product because each element has been strategically designed.

Bak Gravür's experienced team is aware of this inference with its industrial experience and artistic skill. It realized best matching colour retouch while making contribution to product development as well.



Chrome/Dechrome And Repair Services

Printing companies are provided with assistance in easy and quick solution through the filling, cylinder repair and chromium/dechromium service which ensure re-usability of the cylinder instead of replacing it. Thus, it reduces costs for printing companies.



COLOUR MANAGEMENT

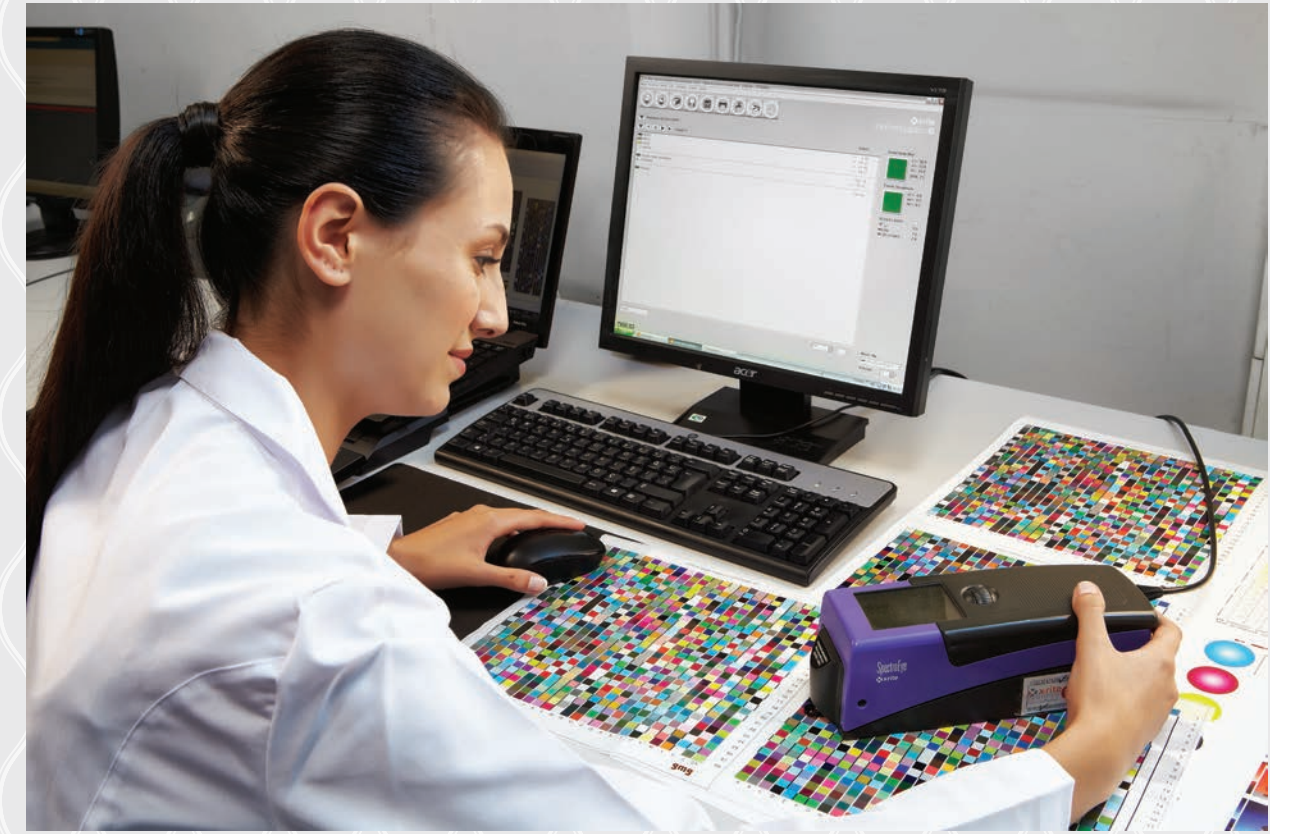
"Colour management via latest software and devices equipped with the state-of-the-art technology"

Bak Gravür provides its customers with excellent service which is supported by its confidence and confidentiality policy. With its expert staff members, current programmes and devices equipped with state-of-the-art technology, it provides its customers with technical assistance as a separate organisation by a professional team within the scope of "Colour Management". Within the scope of customer satisfaction, printing standardisation is provided by the profiles created after the fingerprint made with each customer.

Colour Management Applications:

- › Standardisation of the printing house in accordance with ISO Fogra and standards thereof,
- › Creation of new gradation curves for colour management,
- › Preparation of In-House profiles and provision of integration with customers,
- › Increasing the printing quality,
- › Elimination of colour inconsistencies and achievement of printing with consistent colours.

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REPRO

Due to the industry's high quality expectation and the costs brought about thereby, all process steps from design evaluation to end product require a great attention and precision. Therefore, standardisation of the repro process which directly affects the end product and control thereof by software has gained importance from day to day. Bak Gravür's repro team therefore supports its customers at each and every stage from design evaluation to printing consultancy. Experienced team that technically has a good command of the subject in terms of printing processes and pre-printing preparation applications combines all technical infrastructure with graphic skills, thus evaluating the designs which come for prepress according to printing standards.

When creativity and technical experience come together, artistic approach and knowledge work together as well. This approach helps to fasten approvals and shortens the timings starting from design evaluating till pre-press preparation stages. Bak Gravür provides the following services:

- › Digital colour separation service for any kind of printing type,
- › Pre-press preparation workflow automation,
- › Customer and operating standards ,
- › Special error-catching quality control software purchased from abroad,
- › Operation depending on system but not on individuals,
- › Reliable, customer-specific archiving system, Infrastructure and software engineered by the state of the art technology,
- › Special process-facilitating modules specifically adjusted by colour profiles,
- › Project - based consultancy,
- › Employees specialised on their respective subjects and experienced in the industry,
- › Opportunity of project-based special technical assistance and training for customers.

"A standardised, controlled structure"

"An expert team that combines its technical build-up with graphic skills"

PRODUCTION

"Production of 12.000 steel base cylinders per year"

"An annual capacity of 50.000 engraved cylinders"

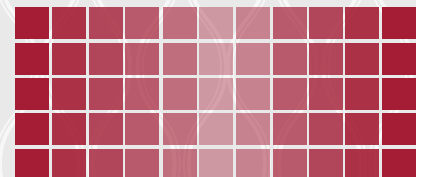
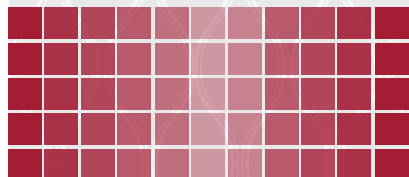
Machining

Production is carried out in the machining line with a production capacity of 12.000 steel base cylinders per year by computer-controlled machines, and pipe, shaft, flange and bearing materials are machined at CNC machines.

Further, repair operation on the cylinders coming from customers may also be carried out in this workshop if and when necessary.

Engraving

Having an annual cylinder coating and engraving capacity of 50.000 cylinders, Bak Gravür serves its customers through three lines, which are manual, automatic and laser lines.





QUALITY CONTROL

Quality control is one of the essential departments of Bak Gravür which is focused in customer satisfaction-oriented quality system. Quality control and all production stages carried out during operations are recorded via software and automatic control station developed by Bak Gravür, and instantaneous and retrospective traceability of the records may be instantaneously followed up.

"Automatic and systematic quality control"



QUALITY MANAGEMENT SYSTEM

*"Health
and Safety
Management
System"*

Having **ISO 9001 certificate** since 2001, Bak Gravür obtained ISO 14001 Environmental Management System certificate in 2015 and then OHSAS 18001 Occupational Health and Safety Management System certificate in 2016.





CUSTOMER RELATIONSHIP MANAGEMENT (CRM)

The Customer Relationship Management (CRM) team

established in order to be able to keep customer satisfaction at the optimum level at Bak Gravür is professionally managed as a separate unit. When any feedbacks like satisfaction, complaint, proposal, etc. are sent to the crm@bakgravur.com.tr mail address by customers, a reply to customer is done with analysis results as soon as possible.

After Sales Services provided by Bak Gravür's Customer Relationship Management (CRM) Team:

- Full technical assistance regarding the product supplied or service provided,
- Consultancy in the solution process,
- Systematic traceability,
- Clear communication and cooperation,
- Contribution to the reduction of costs through creative solutions and improvements.

"Creative solutions and technical assistance at each and every stage"

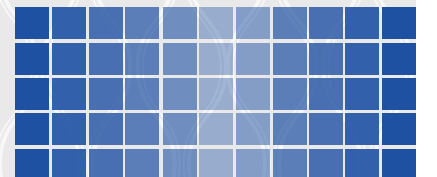
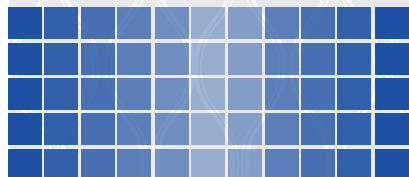
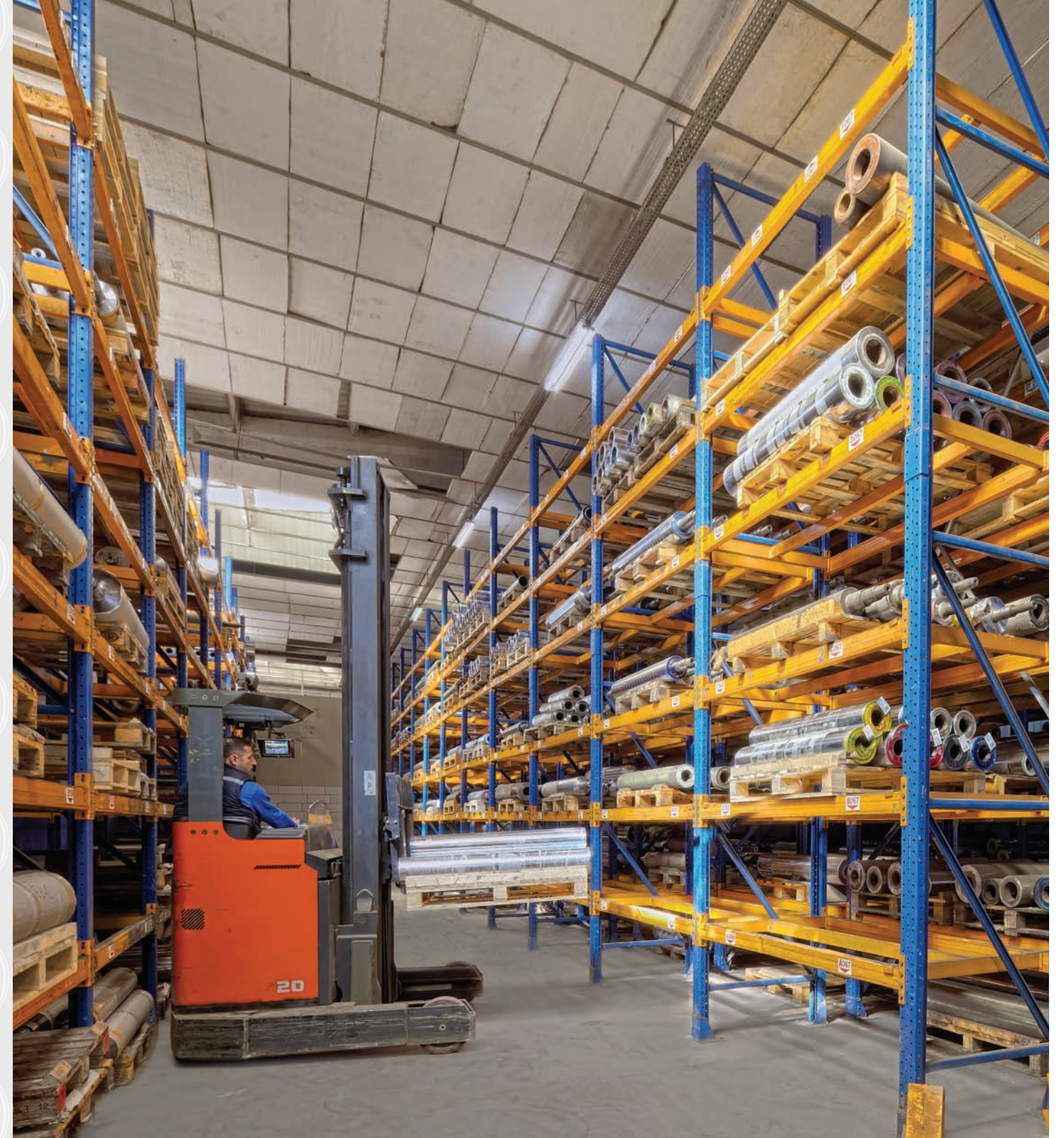
LOGISTICS

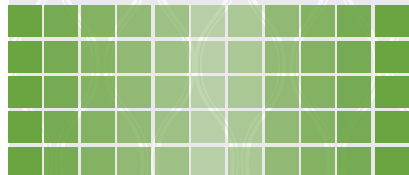
"Worldwide shipment"

Achieving worldwide shipments, Bak Gravür usually serves its customers located in Turkey, Europe and America.

Incoming Control and Cylinder Storage Area

The customers' cylinders are stored in a secured area of 7.000 cylinders capacity ensures more efficient and quick service for new orders.





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SOCIAL RESPONSIBILITY

Bak Gravür makes donation to Aegean Forest Foundation every year for new forestation, contributing environmental sustainability. The foundation has planted over 9 million pine trees so far.



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