

ENGINEERING EAD

Production of LV electrical switchboards for the shipbuilding industry

Engineering EAD is one of the companies associated with FILKAB AD. The company was established in 2006. It specializes in two fields – turn-key engineering solutions and production of electrical equipment.

Our clients do business with us because we strive to deliver the best products and the best services. In order to achieve this we invest in highly-qualified experts and modern equipment and technologies.

Engineering EAD is certified for the production of type-tested switchboards of leading European producers. The company has at its disposal modern production facilities and technologies, and all the necessary equipment for its business activities.

ABOUT THE FILKAB GROUP

Over the last 20 years the FILKAB group of companies have focused their activities in three directions: wholesale of electrical materials, production of electrical equipment, and electrical installation projects.

FILKAB owns two subsidiaries in Bulgaria (Engineering EAD and FILKAB Solar OOD) and five subsidiaries in the region – in North Macedonia, Serbia, Romania, Turkey, and Hungary.



FILKAB

Supply, distribution, and wholesale of cables and wires, cable accessories, electrical and automation equipment, electrical materials, lighting equipment.



FILKAB
ENGINEERING

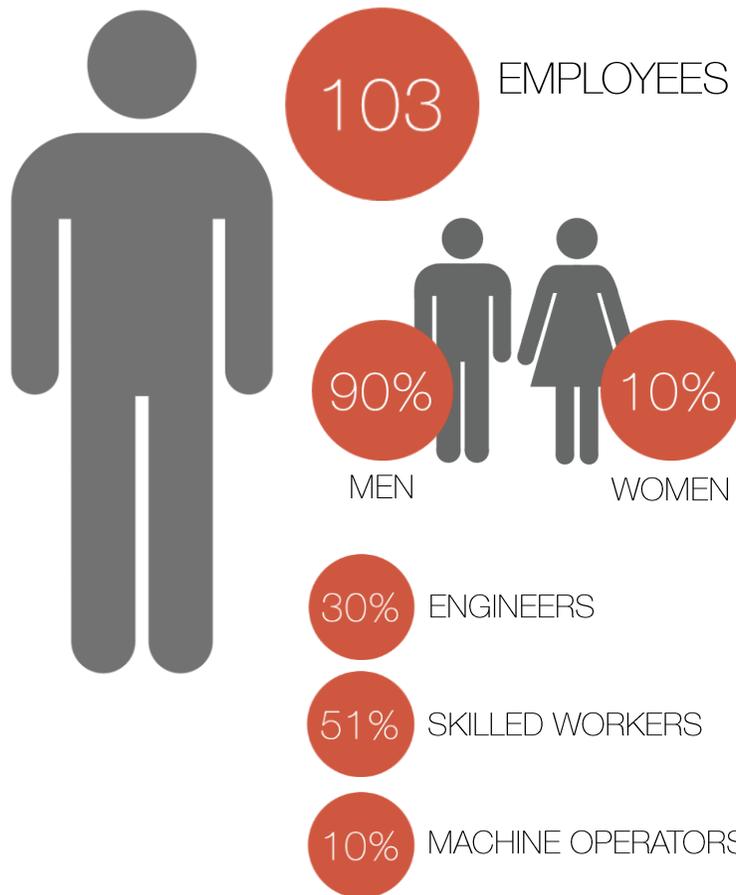
Production of electrical switchboards, CCTS, switchgear 24kV. Project management and construction – installation of electrical and automation systems.



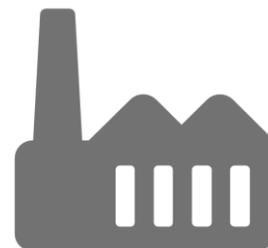
FILKAB
SOLAR

Turn-keys Renewable Energy Solutions – design, materials supply, construction for utility-scale PV projects.

ENGINEERING EAD IN NUMBERS



MACHINES AND EQUIPMENT



- 2 CNC LASER AND PLASMA-CUTTING MACHINES
- 2 HYDRAULIC CNC BENDING MACHINES
- 2 HYDRAULIC CNC PUNCHING PRESSES
- 1 DR-CNC DISPENSING ROBOT FOR POLYURETHANE GASKETS
- 1 POWDER PAINTING LINE

16

BGN Million - Turnover
in 2018

80

Projects completed in
2018

16

Thousand pieces of
equipment produced in
2018

CERTIFICATES AND LICENCES

In order to achieve its business ideas in the highly competitive environment, the company improves continuously.

- In 2014 an ERP system is adopted, in order to optimize the operations.
- The same year the company is certified in accordance to ISO 9001:2008, ISO 14001:2004 and OHSAS 18001:2007.
- Engineering EAD holds licences from established European producers

License by Schneider Electric - France, for the production of “Prisma” type boards.

Licensed panel builder of modular switchboard systems by Legrand – France.

Licensed builder of Distribution substations SM6 from Schneider Electric – France.

In 2018 our ship-application electrical switchboards 630A were certified by Bureau Veritas to be used by MTG Dolphin shipbuilding company

DESIGN

The company has a team of experts who specialize in design and engineering. They have vast experience in the design and construction of projects in the fields of electricity transmission and distribution, and industrial automation and control.



PRODUCTION

Engineering EAD owns production facilities and equipment for:
Sheet metal processing, punching, welding, pressing, powder painting, assembly of metal structures.
Production of electrical switchboards, concrete transformer substations, switchgear.



INSTALLATION

Engineering EAD has its own transport and installation equipment thus guaranteeing high-quality and on-time installation and adjustment activities.



COMMISSIONING

Engineering EAD has its own professional teams who carry out the commissioning of the custom-made products. We take care of all the testing before the commissioning and we also offer warranty-period and post-warranty period technical servicing.



CCTS

PRODUCTION

We manufacture Complete Concrete Transformer Substations (CCTS) for cable lines of up to 20kV for the residential and industrial markets. These substations are stand-alone structures which can be serviced internally and externally.

The substations are ready-to-use products which consist of transformer/s, distribution equipment MV(up to 20kV), LV (up to 0.4 kV) equipment, and all addition equipment that is required by the government regulations and the customer requirements.

The production capacity of the company is 30 CCTSs per month.



CCTS

PROJECTS COMPLETED



CLIENT | National Company Industrial Zones
PRODUCT | CCTS 1 x 630kVA

CLIENT | Kostal Bulgaria Automotive
PRODUCT | CCTS 3 x 1250kVA

CLIENT | FILKAB Solar Hungary
PRODUCT | CCTS 2 x 800kVA and 3 x 1250 kVA

CLIENT | Industrial Park Markovo
PRODUCT | CCTS 1 x 800kVA

CLIENT | Etra EL EOOD, Veliko Tarnovo
PRODUCT | CCTS 1 x 250kVA and 2 x 800kVA

SWITCHGEAR

PRODUCTION

Engineering EAD holds a license by Schneider Electric for the production of Switchgear SM6. We produce the entire standard range of Schneider Electric, as well as, custom-made modules according to clients' requirements.

We keep in stock the standard configurations switchgear. This enables us to provide fast delivery of the products to our clients.



SWITCHGEAR

PROJECTS COMPLETED



CLIENT | NG Technology, Sofia
PRODUCT | SM6 IM + QM

CLIENT | ZAVN Dobrich AD, Dobrich
PRODUCT | SM6 IM

CLIENT | ELCOM-MD OOD, Varna
PRODUCT | SM6 IMM

CLIENT | EL Group 07 ML EOOD, Sofia
PRODUCT | SM6 2 IM + IMM + QM

ELECTRICAL SWITCHBOARDS

PRODUCTION

In our portfolio you will find -

- Main distribution electrical boards, Automation and Control switchboards, Electrical boards for residential and commercial buildings, Electrical meter boards, Arrestor switchboards, Distribution cassettes, Metal boxes for electrical boards IP65 FILBOX, Modular boards SHN – 200x900 with depth 200 ÷ 800 mm, Power distribution switchboards



ELECTRICAL SWITCHBOARDS

PROJECTS COMPLETED



CLIENT | Biovet AD
PRODUCT | Electrical Switchboards 4000A

CLIENT | Kostal Bulgaria Automotive
PRODUCT | Electrical Switchboards 400A

CLIENT | Multivac
PRODUCT | Electrical Switchboards 3200A

CLIENT | MTD Dolphin
PRODUCT | Ship electrical switchboards 630A

CLIENT | EVN, Energo Pro, CEZ
PRODUCT | Electrical Switchboards - LV and Meters



For MTG Dolphin our company produced the electrical switchboards for 2 ships.

The total number of switchboards is 50, 25 for each of the 2 ships.

These electrical switchboards manage the complete power supply and control of the ships.

All electrical switchboards have successfully undergone all applicable tests.

SHIP ELECTRICAL SWITCHBOARDS 630A

PROJECTS COMPLETED



The main electrical distribution board is assembled entirely with equipment certified for ships.

The main electrical switchboard has undergone additional functional tests by Bureau Veritas – a certificate is on file.

The equipment used in the project is by Schneider Electric, Iskra, DEIF, LEF, ABB, Eaton, Phoenix contact, OBO Bettermann, Morek, Rittal, and other leading manufacturers.

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