

STEEL FABRICATED PARTS BUSINESS UNIT



ELECTROALFA®

overview

ABOUT ELECTROALFA



STEEL FABRICATED PARTS BUSINESS UNIT



TECHNOLOGIES



RANGE OF PRODUCTS



OUR CLIENTS



COMPETITIVE ADVANTAGES



ABOUT ELECTROALFA

Electroalfa is a Romanian group of companies specialized in the design and manufacturing of electrical equipment, the design and manufacturing of steel fabricated parts and EPC contracting for various industrial fields.

We have a background of over 25 years and started as a greenfield private investment.

PRODUCTS & SERVICES

range

ELECTRICAL EQUIPMENT FOR LOW AND MEDIUM VOLTAGE

COMPLEX ELECTRICAL INSTALLATIONS TURNKEY PROJECTS

SPECIALIZED ENGINEERING SERVICES

STEEL FABRICATED PARTS

RENEWABLE ENERGY GENERATION PROJECTS

today

- 25 years of experience of in the field
- a strong brand based on the expertise, qualifications and enthusiasm of more than 400 specialists
- research and development facility
- three modern factories in Botosani
- design office in the Republic of Moldova
- a 3.5 MW photovoltaic park
- sales offices in all regions of Romania
- a turnor over in excess of 30 milion euro in 2015

INTEGRATED MANAGEMENT SYSTEM

for quality, environment, health & safety

We use advance ERP and MRP solutions, PPAP process on customer request, implemented and keep up to date an integrated quality-enviroment-health & safety management system, are BV Mode II certified for the production of marine equipment and our factories were audited while approved on PD CIG 023 for the production of enclosures for electrical equipment.



Quality Management Systems Certification SR EN ISO 9001:2008



Environmental Management Systems Certification SR EN ISO 14001:2005



Occupational Health and Safety Management Systems Certification OHSAS 18001:2007





STEEL FABRICATED PARTS BUSINESS UNIT



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overview

The steel fabricated parts design and manufacturing activities appeared as a distinct workshop in the early beginnings of Electroalfa to serve the growing need of enclosures for electrical equipment.

Year after year, by massive investments in specialized machines and by enlarging the team with specialized people, this activity developed and finally turned into a Profit Center/Business Unit.

Nowdays, the SPF BU is a distinct company of the group, providing high quality enclosures for Electroalfa's switchboards as well as various subcontracted products for third party customers.

During the last 2 years we made investments of 4.9 million Euro in new machines, specialized software and extended the manufacturing area with two new production halls.

Our main capabilities for steel sheet processing are: Shearing, Laser Cutting and Punching, Deep Drawing, Bending, Rolling, Various types of Welding, Semi-Automated Burrs Removal, Polyurethane Gasketing, Electrochemical Plating, Powder Painting.

STEEL FABRICATED PARTS BUSINESS UNIT: RANGE OF PRODUCTS

Standardized steel boxes and cabinets for electrical equipment

Alfa System Dismountable Cabinets

- Can be delivered as flatpack solution
- Assembled from front and back frame 1
- Removable back wall and side covers 3,6
- Door fitted with sliding handle and polyurethane gasket 5
- Protection degree up to IP55 acc. IEC60529
- 58 standardized sizes available



Steel Boxes for Electrical Equipment

- Made of galvanized steel sheet 1-2 mm
- Standard color: RAL 7035 (powder paint)
- Door fitted with locks and polyurethane gasket
- Door opening angle: 120°
- Protection degree up to IP66 IEC60529

Various subcontracted products

Drawer Cabinet

Steel furniture

Centralized locking system

Smooth powder paint

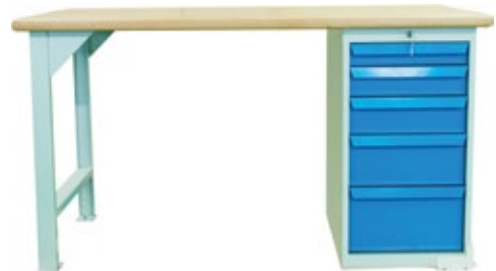


Workbench with Compartments

These durable workbenches are ruggedly built to stand up to the harshest working environments.

Customizable drawer compartments: maximum organization of tools, components and instrumentation.

The result is superior durability, configurability, mobility and quality.



Control Enclosure for Machine Tool

Galvanized steel

Powder painted in different colors (inside/outside)

IP66



Custom Chassis (Switchboard)

Personalized cutouts on the doors

Dedicated fixing accessories inside based on the make and type of circuit breakers

Complete with busbar holders

Powder painted



Control Console

Steel furniture

Centralized locking system

Smooth powder paint



Steel Enclosure for Electrical Applications

Mild steel

Tight tolerances on bending

Welding

Powder painting

Gasketing

IP66



STEEL FABRICATED PARTS BUSINESS UNIT: TECHNOLOGIES

STEEL CUTTING

Cutting machine for steel in coils up to 5T
FGH 420 guillotine

Plasma cutting machine for thicker steel and profiles

CNC machine for cutting sheets format SHEAR GENIUS SGe6

Prima Power



LASER & PUNCHING

LT COMBO FIBER, 3000 W

Laser Cutting Machine for Sheets and Tubes

Materials

Structured steel: 20 mm
Stainless steel: 8-10 mm
Aluminium: 10 mm
Bronze/Brass: 6 mm

Dimensions

Working area: 3,000 x 1,500 mm
Maximum weight of the piece: 200 kg
Maximum thickness of sheet processed: Structured steel – 20 mm;
Stainless steel – 8-10 mm; Aluminium – 10 mm; Bronze/Brass – 6 mm
Maximum pipe cross section: Round shape – 225 mm;
Square shape – 160x160 mm; Rectangular shape – 200x100 mm
Minimum pipe cross section: Round shape – 16 mm;
Square shape – 16x16 mm; Rectangular shape – 16x16 mm
Maximum pipe length: 6,000 mm (200 kg)
Laser power: 3000W, Fiber



Trumpf Trumatic 200R

Materials

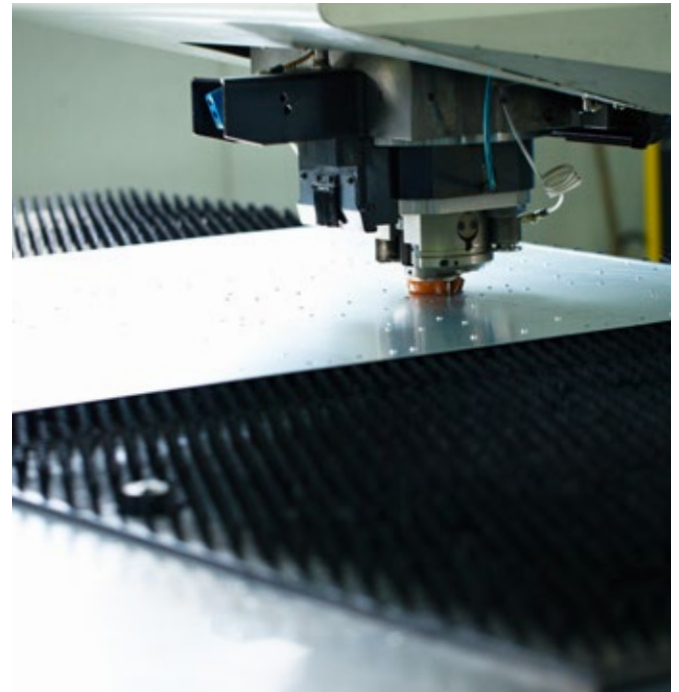
Steel sheet
Polycarbonate
Stainless steel
Brass

Dimensions

Maximum sheet size: 2,070x1,280 mm
9 Technologies and Processes
Maximum weight of the piece: 150 kg
Maximum thickness of sheet processed: 6.4 mm

Precision

The smallest distance: 0.001 mm
The smallest angle: 0.001
Precision: +/-0.1 mm
Repeatability: +/- 0.03 mm



Trumpf Trumatic 2000R

Materials

Steel sheet
Polycarbonate
Stainless steel
Brass

Dimensions

Maximum sheet size: 1,275x1,280 mm
Maximum weight of the piece: 150 kg
Maximum thickness of sheet processed: 6.4 mm

Precision

The smallest distance: 0.001 mm
The smallest angle: 0.001
Precision: +/-0.1 mm
Repeatability: +/- 0.03 mm



Prima Power Shear Genius SGe6

Materials

Aluminium: 5 mm

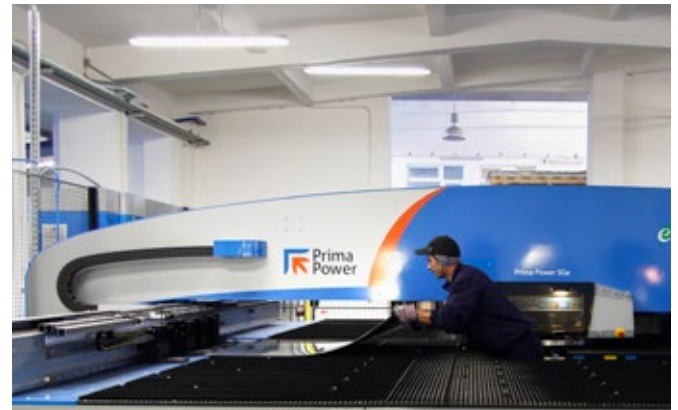
Structured steel: 4 mm/8 mm for punching

Stainless steel: 3 mm

Dimensions

Working area (without repositioning): 3,000x1,500 mm (punching)

Maximum weight of the piece: 200 kg



Euromac ZX1250/30 & Euromac ZX Index Multitool

Materials

Thickness range: 0.5-10 mm

Dimensions

Working area (without repositioning): 2,000x1,250 mm (punching)

Maximum weight of the piece: 200 kg



Trumpf Trumatic 6000

Combined Laser & Punching Machine

Materials

Structural steel: 8 mm

Stainless steel: 6 mm (laser)

Aluminium: 4 mm (laser)

Dimensions

Working area: 2,500 x 1,250 mm

Maximum weight of the piece: 200 kg

Laser power: 2700W, CO2

Precision

The smallest distance: 0.001 mm

The smallest angle: 0.001

Precision: +/-0.1 mm

Repeatability: +/- 0.03 mm



BENDING

Prima Power Bending Center Fast Bend Fbe4

Maximum bending pressure: 313 kN
Maximum force to support the sheet: 509 kN
Maximum height of bending: 200 mm
Maximum bending inside: 55 mm
Minimum width between bendings: 140 mm
Maximum length of the piece for bending: 2,250 mm
Max. opening (max. distance between pressed&bending blade): 200 mm
Max./Min. thickness of material: 2.5/0.5 mm



Gasparini PBS45/1600, PBS45/2100, PBS85/3000

Maximum pressure: 850 kN
Adjustable stroke: 200 mm
Maximum length of the piece for bending: 3,100 mm
Maximum distance between tables: 390 mm
Width between uprights: 2,600 mm
Max./Min. thickness of material: 5*/0.8 mm

**Currently only tools up to 3 mm are available in our factory.*



Bending Press Power Bend Pro 135-30

Maximum pressure: 1,324 kN
Adjustable stroke: 410 mm
Maximum length of the piece for bending: 410 mm
Maximum distance between tables: 2,600 mm
Max./Min. thickness of material: 3/0.8 mm

Bending Press Trumpf Turmabend V85S

Maximum pressure: 850 kN
Adjustable stroke: 215 mm
Maximum length of the piece for bending: 2,550 mm
Maximum distance between tables: 385 mm
Max./Min. thickness of material: 3/0.8 mm



Bending Center Weinbrenner B12

Maximum bending pressure: 313 kN
Maximum force to support the sheet: 509 kN
Maximum height of bending: 350 mm
Maximum bending inside: 55 mm
Minimum dimensions for pieces for bending: 200x400 mm²
Maximum dimensions for sheet formats: 1,500x2,160 mm²
Max. opening (max. distance between pressed&bending blade): 350 mm
Max./Min. thickness of material: 2/0.8 mm



E-TURN 52, BLM

Bending Machine for Tubes and Profiles

Maximum tube O.D. capacity: from 6 to 52*2mm
Medium bending radius: 1D
Ovalisation: < 1%
Thickness reduction: < 20%
No clamping marks



DRILLING

Drilling and threading machines for up to 102 mm diameters: driller G13, driller GVM 6A, threader type MFIV 16, pneumatic threader type ROSCAMAT



BURRS REMOVAL

De-burring machine, G11 3RRB, GECAM



GASKETING

CNC polyurethane gasket pouring machine with 2 operating tables which allows the fabrication of enclosures with protection degrees up to IP66, RAMPF



WELDING

Active (MAG), Trans Puls Synergic 2700, Merkle M 285k,
Eurofil 300, Filcard 203

Protective gas welding

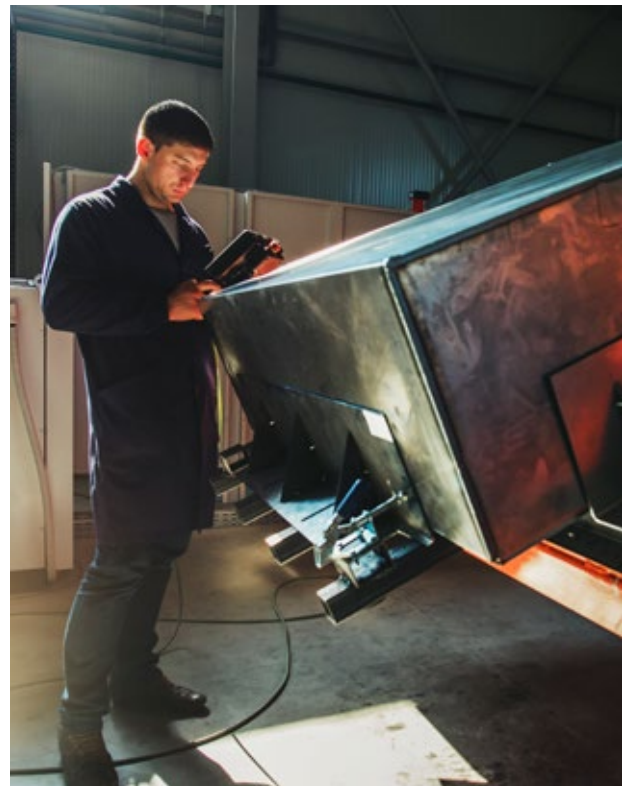


Magic Wavw 2200, Merkle PU 250k, Mos 2000T

Inert gas welding (Argon) with fusible electron (MIG), tungsten electrode

NKLP 36/ 46, PCP 28 Telwin, Telwin Spoter 6000

Pressure welding



TECNA (manufacturer)

Point welding, cooper table, soldering plier

QIROX QRC 350 (manufacturer CARL CLOOS)

Welding robot

STAMPING

1 Hydraulic Press

500 tones
Stroke: 1,000 mm
Motor: 45 kw

9 Excentric Presses

Working force: 20÷63 (force-tons)

2 Hydraulic Presses

For tube deformations



ELECTROCHEMICAL ZINC PLATING

Automated line capable of providing various electrochemical plating:
Zn, Ni, Ag (currently prepared and used for Zn plating only)
Bath material: Polypropylene
Bath internal size: 2,500x600x1,100 mm
Maximum weight of an individual part: 70 kg
Minimal size of parts to be plated: $\phi 5$ mm or 5x5 mm (square)



POWDER PAINTING

Automated powder painting line, running on a nano-ceramic pre-treatment process
Cyclotron automated powder painting cabin (fast color shift system), Nordson
Materials: normal steel, stainless steel, cooper, aluminum
Maximum size of parts to be painted: 2,500x1,500x800 mm
Maximum weight of parts: 100 kg
Thickness of paint layer: 60-120 μ
Polymerization oven: tunnel type 180-200 °C



OUR CLIENTS

We commit ourselves to be a constant presence on the export market by investing continuously in advanced technologies and keep improving our products.

DOMESTIC AND INTERNATIONAL

clients

Electroalfa's domestic clients are operating in the energy market, industry and infrastructure, residential and civil buildings.

Our international clients are active in various industries like electrical equipment, automotive, shipyards, green energy, furniture, medical, building interiors.



Cxxx
AUTOMOTIVE



Pxxx Ixxxxxxx
AUTOMOTIVE



Hxxx
ELECTRICAL PANEL
BUILDING



Electroalfa Group
ELECTRICAL PANEL
BUILDING



Wxxx
ELECTRICAL PANEL
BUILDING



Exxx
ELECTRICAL PANEL
BUILDING



Exxxxxx
ELECTRICAL PANEL
BUILDING



Exxx
ENCLOSURES
FOR ELECTRICAL
APPLICATION



Buyck Displays
MERCHANDISE DISPLAY
SYSTEM



Vxxx
SHIPBUILDING



Exxx
SHIPBUILDING



Lxxx
STEEL FURNITURE



Fxxx
INDUSTRIAL
REFRIGERATION



Bxxx
CONSUMER HEATING
SOLUTIONS



Ixxx
ACOUSTICS GEAR



Fxxx
INDUSTRIAL
REFRIGERATION



Ixxx
ACOUSTICS GEAR

«xxx» stands for customers under NDA

COMPETITIVE ADVANTAGES

Extensive experience in the design and fabrication of sheet metal parts and assemblies

- Full control over production and sales ERP & MRP solutions (ORACLE based)
- High Standards of Quality Assurance Certifications (ISO certifications)
- Premium Portfolios of suppliers and customers
- Speed And versatility in meeting customer demand/requirements
- Competitive price/quality ratio – East European labor rates mixed with advance technological capabilities
- Advance design and testing capabilities inhouse R&D Laboratory
- Partnerships with reputable Technical Universities
- Experience in participation in domestic and international competitive bids





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