

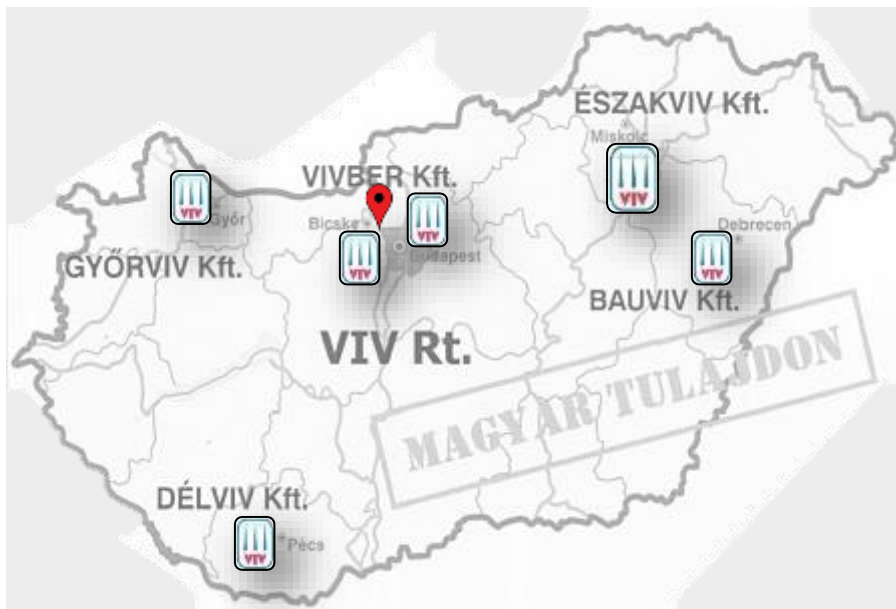
**VIV**

**BER Kft.**



# The **VIV** Group

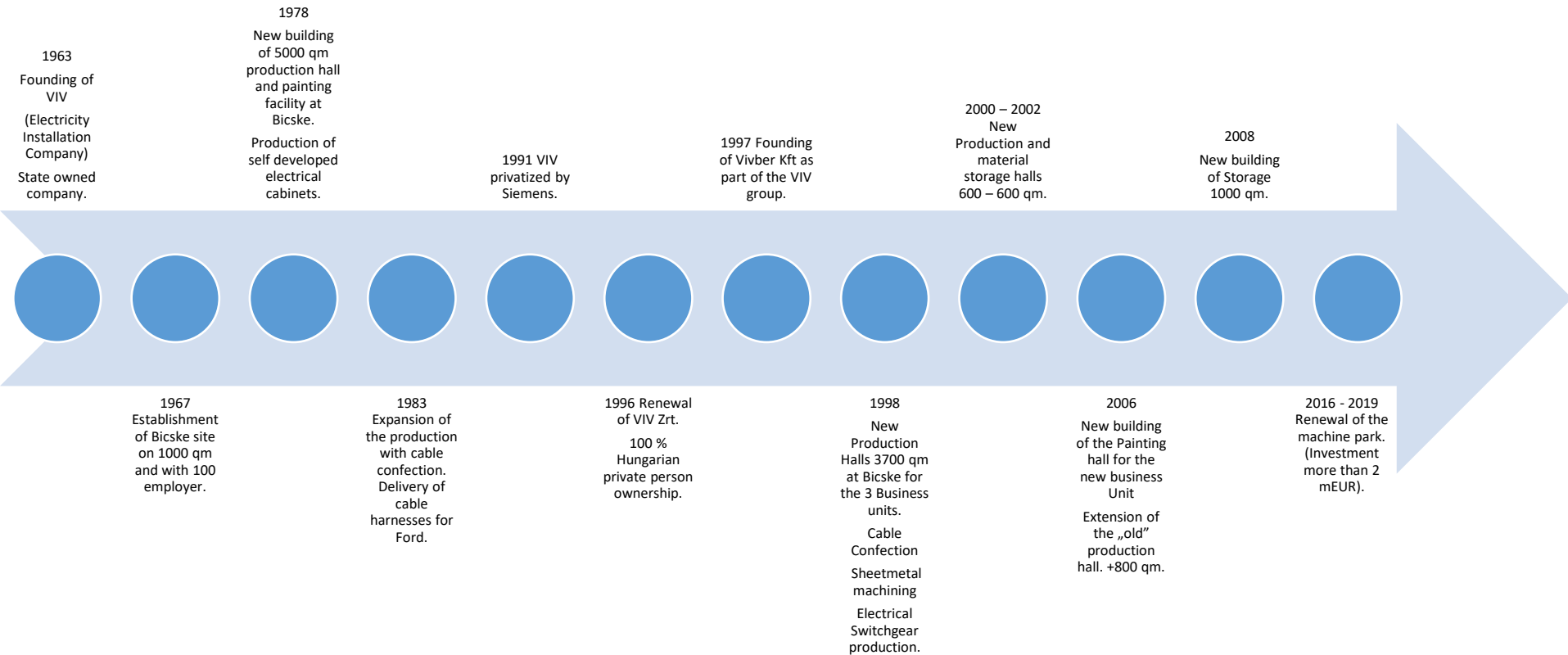
Location in **HUNGARY**



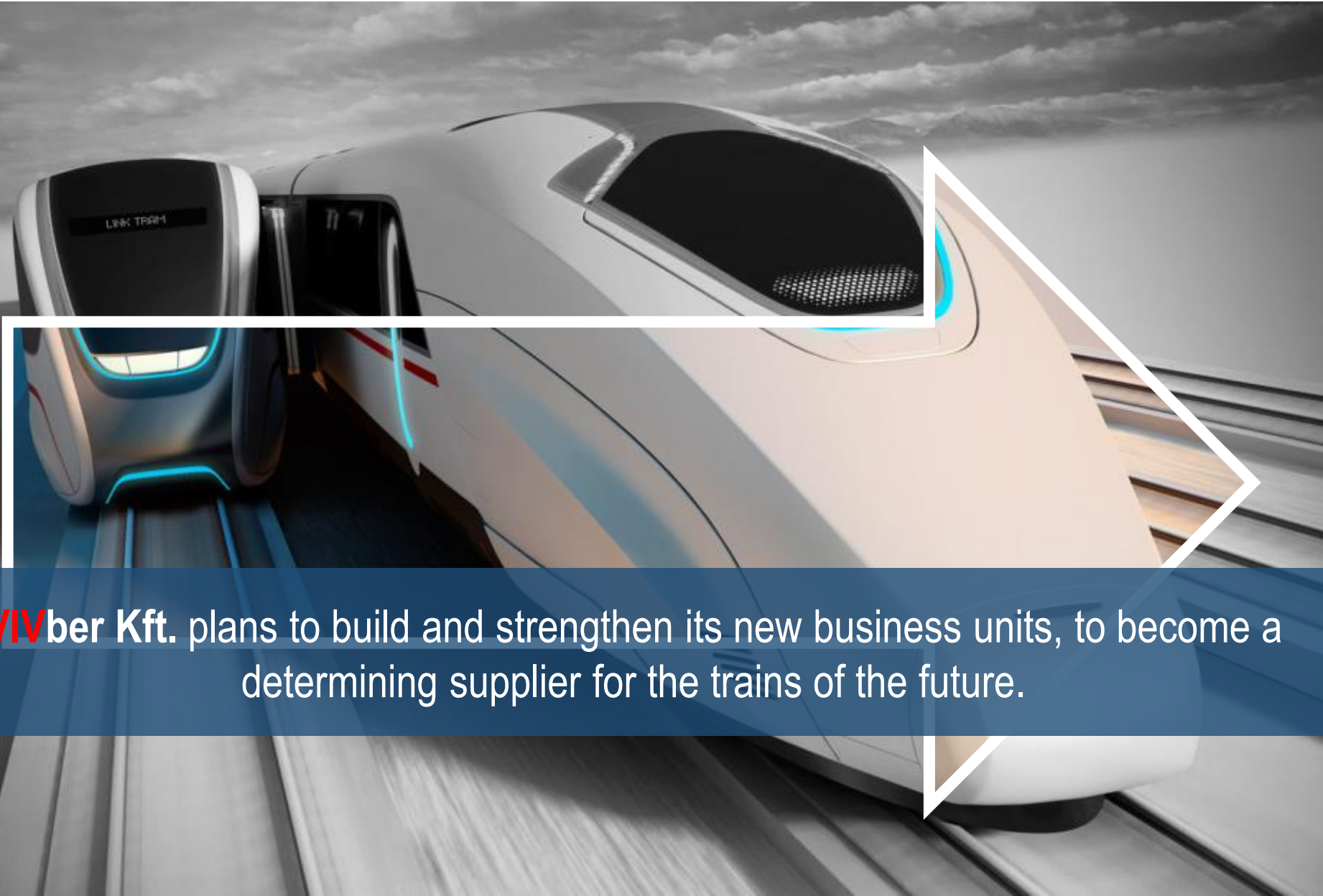
**VIVber Kft.** is located in Bicske, which is engaged in the manufacture and distribution of electrical switchgears, the manufacture of metal structures, surface treatment and the manufacture of cable assemblies and which uses equipment and technologies representing a state-of-the-art technological standard.

The **VIV Group** carries out (by its five full subsidiaries) prime contracting, general project implementation, design, manufacturing and maintenance tasks. It is also the qualified partner for customer segments that place as much value on services as on products.

# History of Vivber Kft



# Train the **Future**



**VIV**ber Kft. plans to build and strengthen its new business units, to become a determining supplier for the trains of the future.

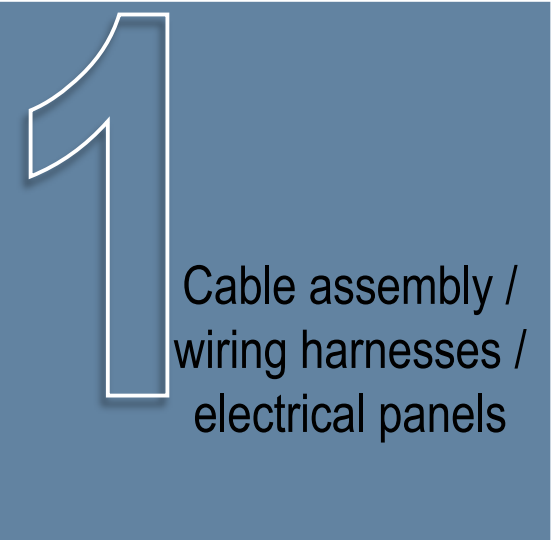
# Business Units



3  
Powder coating /  
Wet painting



4  
Manufacture of  
electrical  
switchgears,  
control panels,  
distribution panels



1  
Cable assembly /  
wiring harnesses /  
electrical panels



2  
Sheet metal  
processing

2



A close-up photograph of a person's hands working on a cable assembly. The person's index finger is wrapped in a white adhesive bandage. They are holding a bundle of purple cables with white connectors. In the background, there are other bundles of cables in yellow and blue. A large white number '1' is overlaid on the left side of the image.

1

# Cable assemblies

# Cable assemblies **processing**

Complicated wiring harnesses  
(special, from very small quantities to high volume)



Simple cable bridges  
(0.11 - 300 mm<sup>2</sup>)



Complete wiring enclosures and devices



Ribbon cable (2-80 pins)



Coaxial cable

# Cable assemblies **tools**



Crimping machine



Crimpmachine for cable end sleeves



Cut machine  
Unisolating



Twisting machine



Crimpmachine



Electrical testing board



Quality assurance



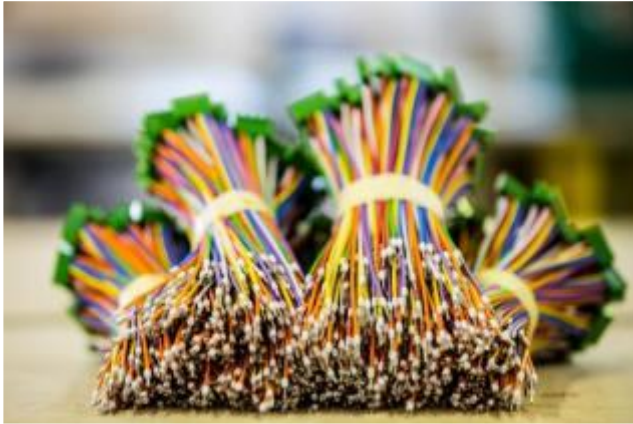
Pulltester



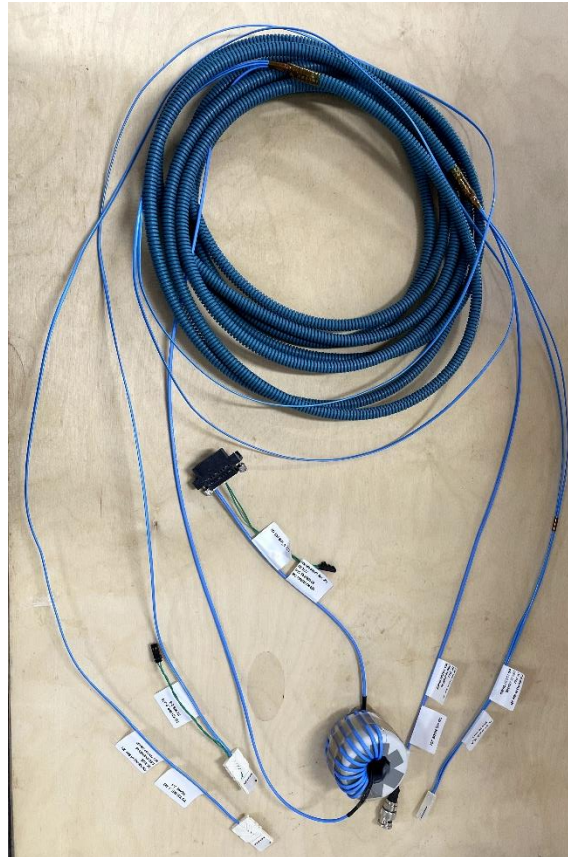
# Cable manufacturing tools

Machine name	Process	Additional information	
Komax Gamma 333	fully automatic crimping machine	Length range: 60mm-65000mm	Cross section: 0,13mm <sup>2</sup> -5mm <sup>2</sup>
Komax M1630 Jet BC	wire marking system	Min./max. character height: 0.9 – 4.6 mm	Standard print: 7.9 / 11.2 m/s
Schleuniger PS9500	automatic wire cut & strip machine	Length range: 52mm - 1000m	Cross section: 6mm <sup>2</sup> -25mm <sup>2</sup>
Komax Iota 330	cutting machine	Length range: 1-1.000.000mm	Cross section: 0,14mm <sup>2</sup> -35mm <sup>2</sup>
Sienna 210	laser wire stripping machine	Stripping length: max 100mm	Wire size <6mm
Weidmüller Powerstripper 6	stripper machine	Pull-off length: 3-20 mm	Cross section : 0.05 - 6.0 mm <sup>2</sup>
Komax BT86	coax stripper machine	Stripping length: 0,1mm - 30mm	Cable diameter max. 7mm
AM.Strip 2	stripper machine	Stripping length: 230,0 mm	Outer diameter: 1,0 mm - 25,0 mm
Arno Fuchs FE400	stripper machine	Stripping length: 1,5-10mm	Cross section: 0,05-2,5 mm <sup>2</sup>
Z+F AM 02	stripper & crimper machine	Crimp length: 6-12mm	Cross section: 0,5-2,5 mm <sup>2</sup>
Weidmüller CA100	stripper & crimper machine	Crimp length: 12-18mm	Cross section: 0,5-2,5 mm <sup>2</sup>
Mecal P107C	crimping machine	Force : 2kN	Crimping height: 135,8mm
Filomat APF 100	crimping machine	Force : 2kN	
Molex EPS2000	crimping machine	Force : 2kN	
WDT UP60	crimping machine	Force: 75 kN	Cross section: 0,5-400 mm <sup>2</sup>
Novopress HPA400	crimping tool	Force: 110 kN	Cross section: Cu 16 - 400 mm <sup>2</sup> / Al 50 - 400 mm <sup>2</sup>
Weller WT1	soldering station	Power: 90W	Temperature limit : 50-550°C
Burger DO3	press machine	Force 3 kN	
Gechter 12	press machine	Force 4,38 kN	
KAG100	hotmelt machine	Molding temperatur: 50 – 250 °C	Tank capacity 200 ml
Hugotech 639	drilling machine	1-999 Umdrehungen	
Pneumat	drilling machine		
KTHB Mini	taping tool	Rev: 120–280 U/min.	Taping diameter : 3–20 mm
Weetech W434	test machine	low voltage test, high voltage test, functional test	64 test points
Engberts ENG-0014	test machine	continuity test	84 positions for connector counter parts
Schleuniger PT 25 1000 / 500 N	pull tester	Standard: 0 – 500 N and 0 – 1,000 N	
Schäfer SOS 02 + Dualoptik OP 4003	micrograph	analysis software X-Scan	measuring microscopes 12x Zoom and 6x Zoom
Henkelman Boxer 42 XL	vacuum packaging machine	Pump capacity: 21 m <sup>3</sup> /h	Chamber dimensions (L x W x H): 370 x 420 x 180 mm
Memmert UF160	heating oven	Setting temperature range: +20 to +300 °C	Volume: 161 l

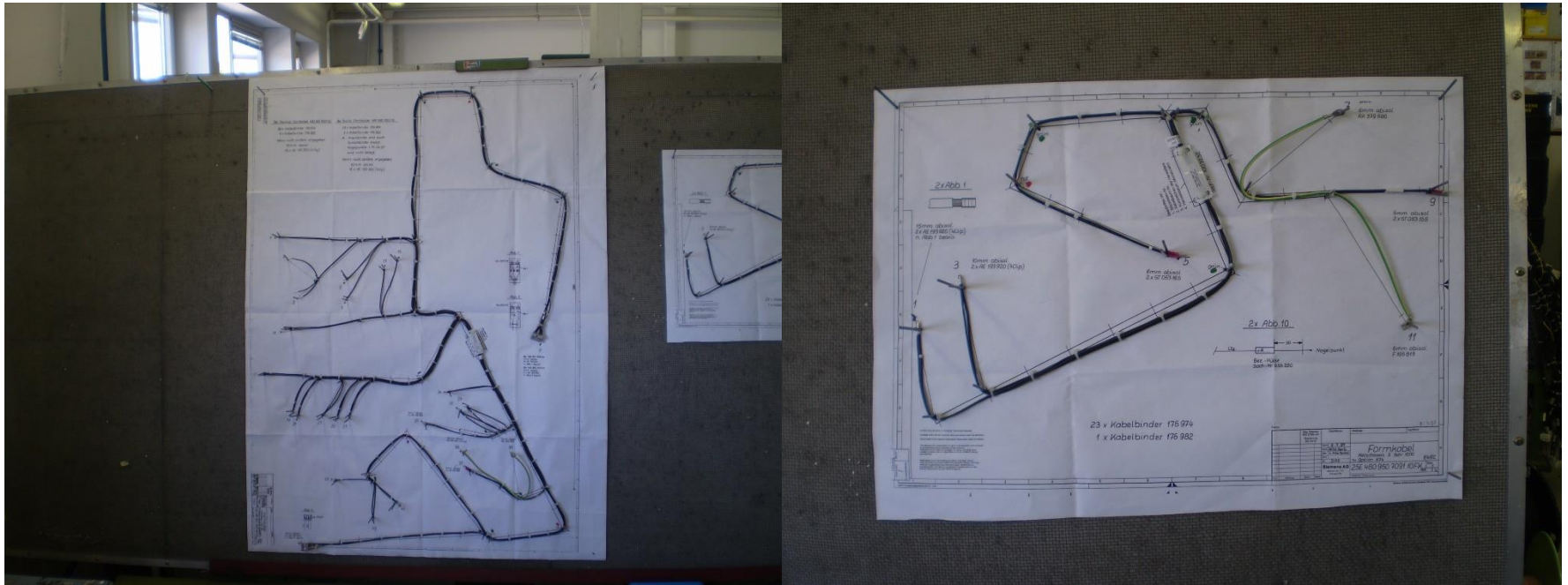
# Cable products



# Cable products



# Cable products

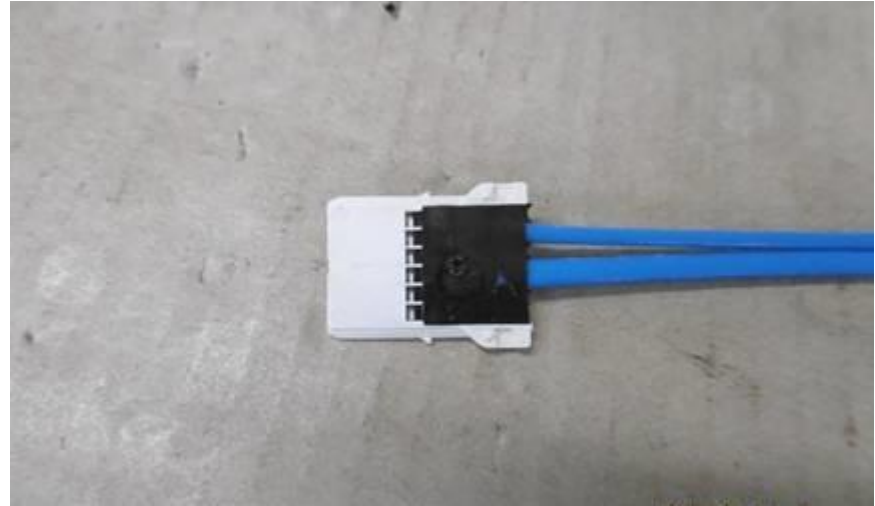


- preparation of wires and cables (incl. cutting, crimping, marking)
- laying wires on the board according to the drawing and markings
- wiring to the appropriate connector

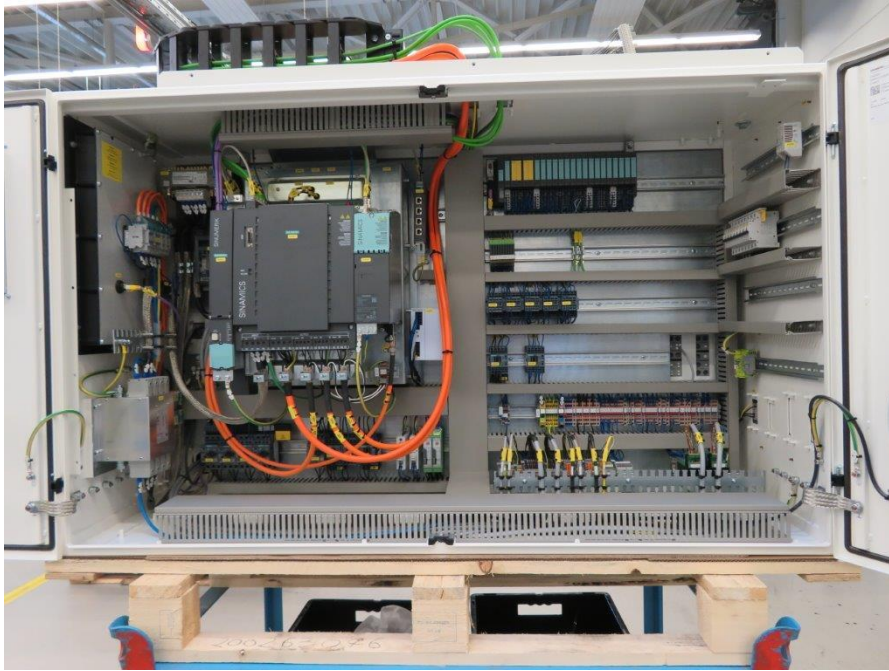
# Cable products



- preparation of wires and cables (incl. cutting)
- stripping with laser
- IDC pressing with special tool
- drying according to customer specification
- low pressure injection molding with self-developed tool



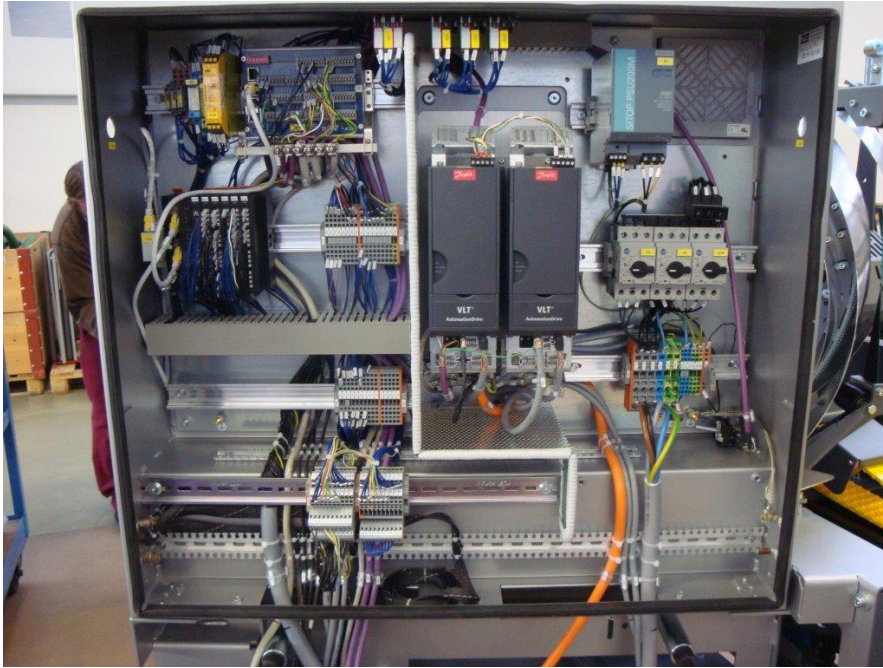
# Cable products



- mechanical preparation of electrical cabinets (incl. installation of equipments)
- wiring of the electrical cabinets with the prepared cables and wires



# Cable products



- preparation of wires and cables (incl. cutting, crimping, marking)
- mechanical preparation of electrical cabinets (incl. cutting and fixing of din rails and cable canal, installation of equipments)
- wiring of the electrical cabinets with the prepared cables and wires



# Railway **project**

Project tasks:

- mechanical / electrical assembly of cable ducts
- Jumper cable assemblies



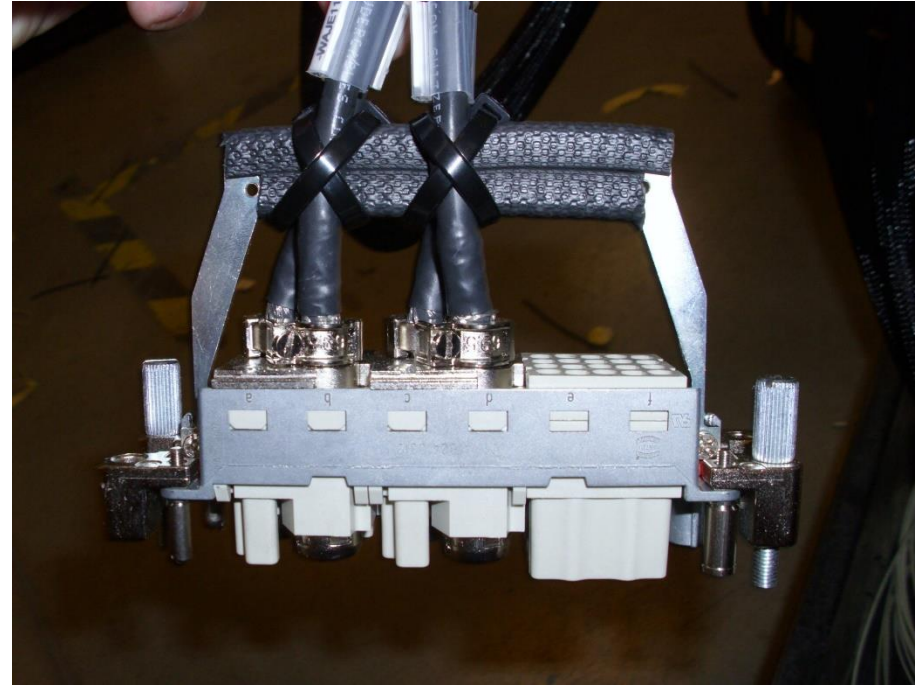
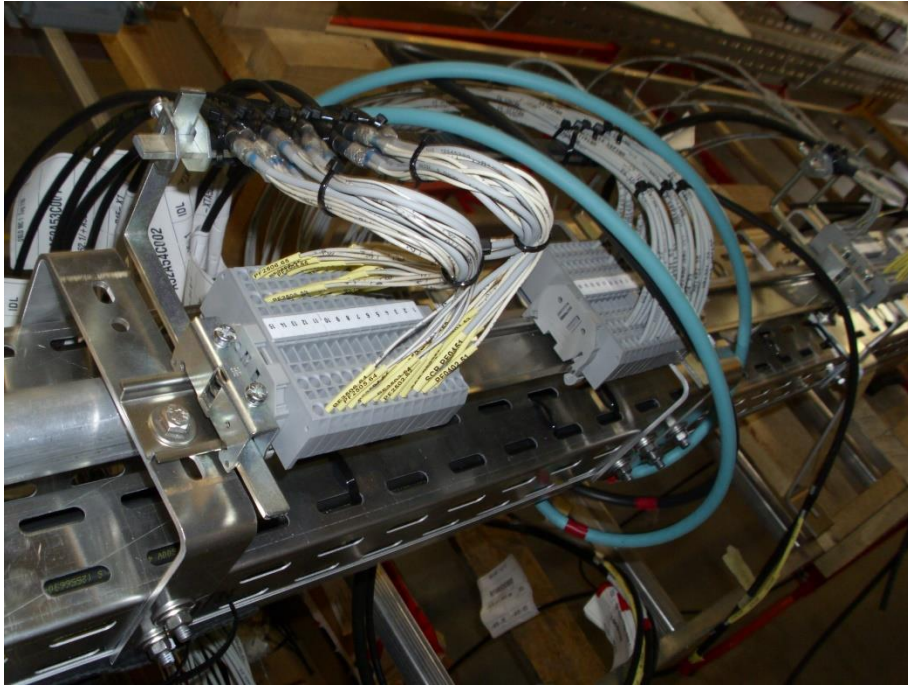
- cutting, punching, bending of metal sheet parts
- mechanical assembly of cable ducts





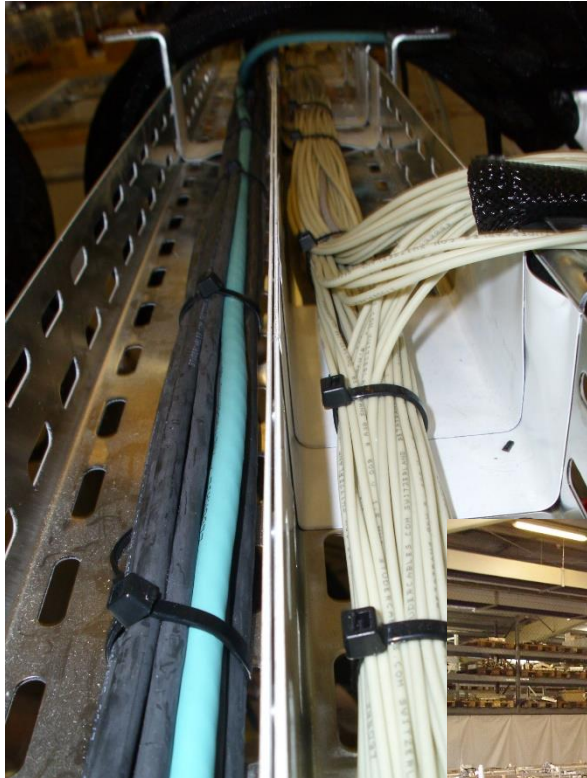
# Railway project

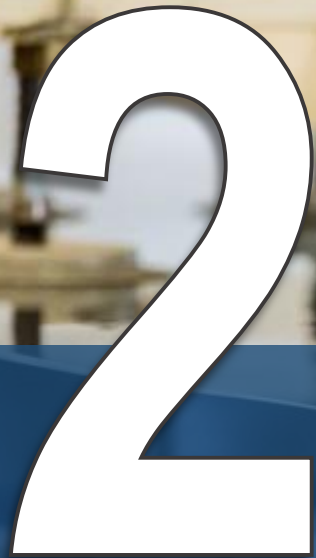
- preparation of wires and cables (incl. cutting, crimping, marking)
- laying cables in the ducts
- assembly of cables with connectors



# Railway project

- preparation of wires and cables (incl. cutting, crimping, marking)
- laying cables in the ducts
- assembly of cables with connectors

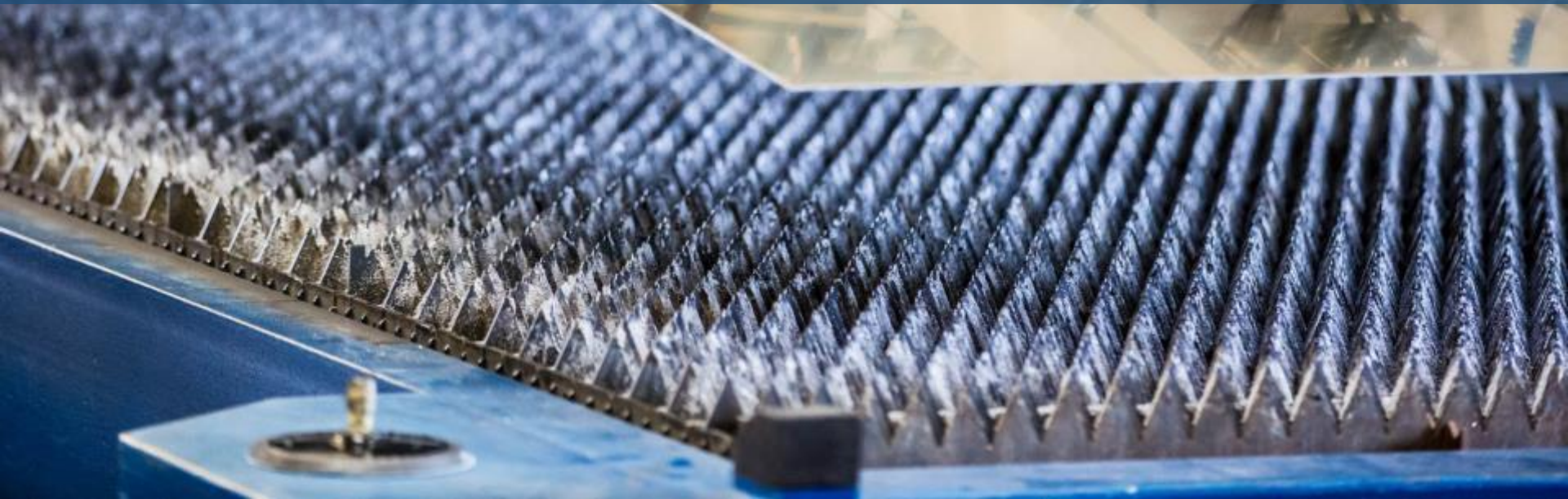




2



# Metal-sheet processing



# Metal-sheet **processing**

CNC Laser Cutting  
CNC Punching



CNC Bending



Welding /  
EN 15085-2 CL1;  
TIG, MIG /MAG



Bonding / Sealing /  
DIN 6701 Class A2



Mechanical  
and electrical  
assembling

## Metal-sheet tools



CNC Laser cutting machine  
(Trumpf Fiber3030)



Punching machine  
(TruPunch 5000)



Bending machine  
(Trubend 5170)



Bending machine  
(Trubend 7036)

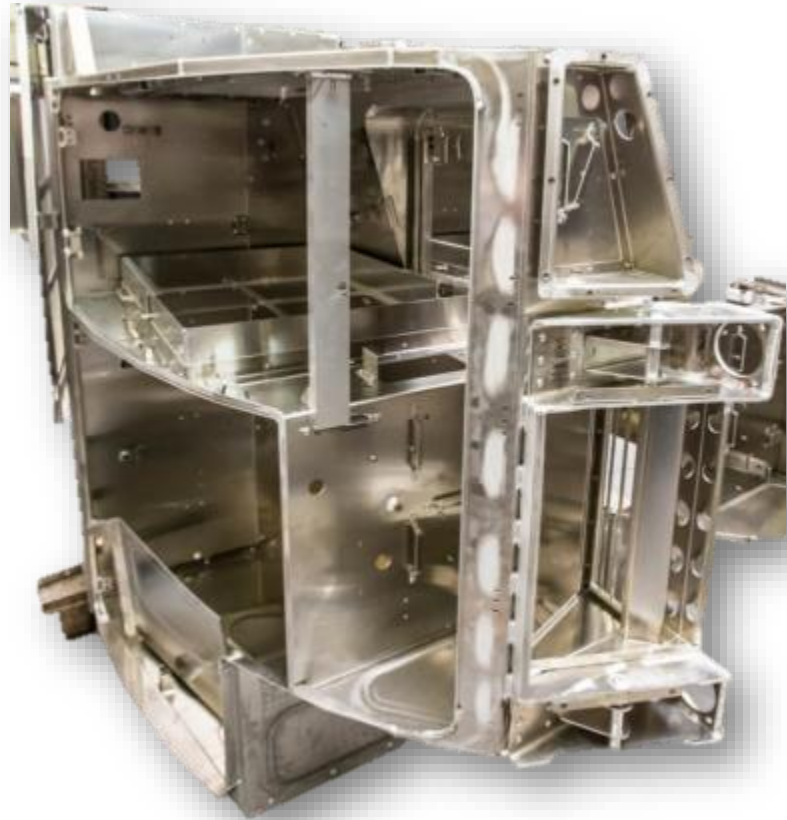
# Metal-sheet tools

TruPunch 5000

TRUMPF

Denomination	Type	Performance	Max. Plate size	Max. thickness		
				Steel	Stainless steel	Aluminum
Laser Cutting Machine	Trulaser 3030	3,2 / 6 kW	1500 mm x 3000 mm	max. 25 mm	max 20 mm	max 16 mm
Punching	Trupunch 5000	220 kN	1500 mm x 3000 mm	max. 8 mm		
Bending Machine	Trubend 7036	360 kN	1020 mm			
	Trubend 5170	1200 kN	3230 mm			
	Trubend V130	1300 kN	3060 mm			
	Safan CNCL-K 120-3100	1200 kN	3100 mm			
	Beyeler PR 6	600 kN	2050 mm			
Shear	LVD		3000 mm	max. 6 mm	max. 4 mm	max. 8 mm
Machining Center	Matec HV30	16 kW	3000 mm x 1000 mm x 800 mm			
	Kondia HM1060	11 kW	1000 mm x 600 mm x 510 mm			
CNC Lathe	NCT MSL-200	7,5 /11 kW	Ø490 mm / 180 mm			

# Metal-sheet products

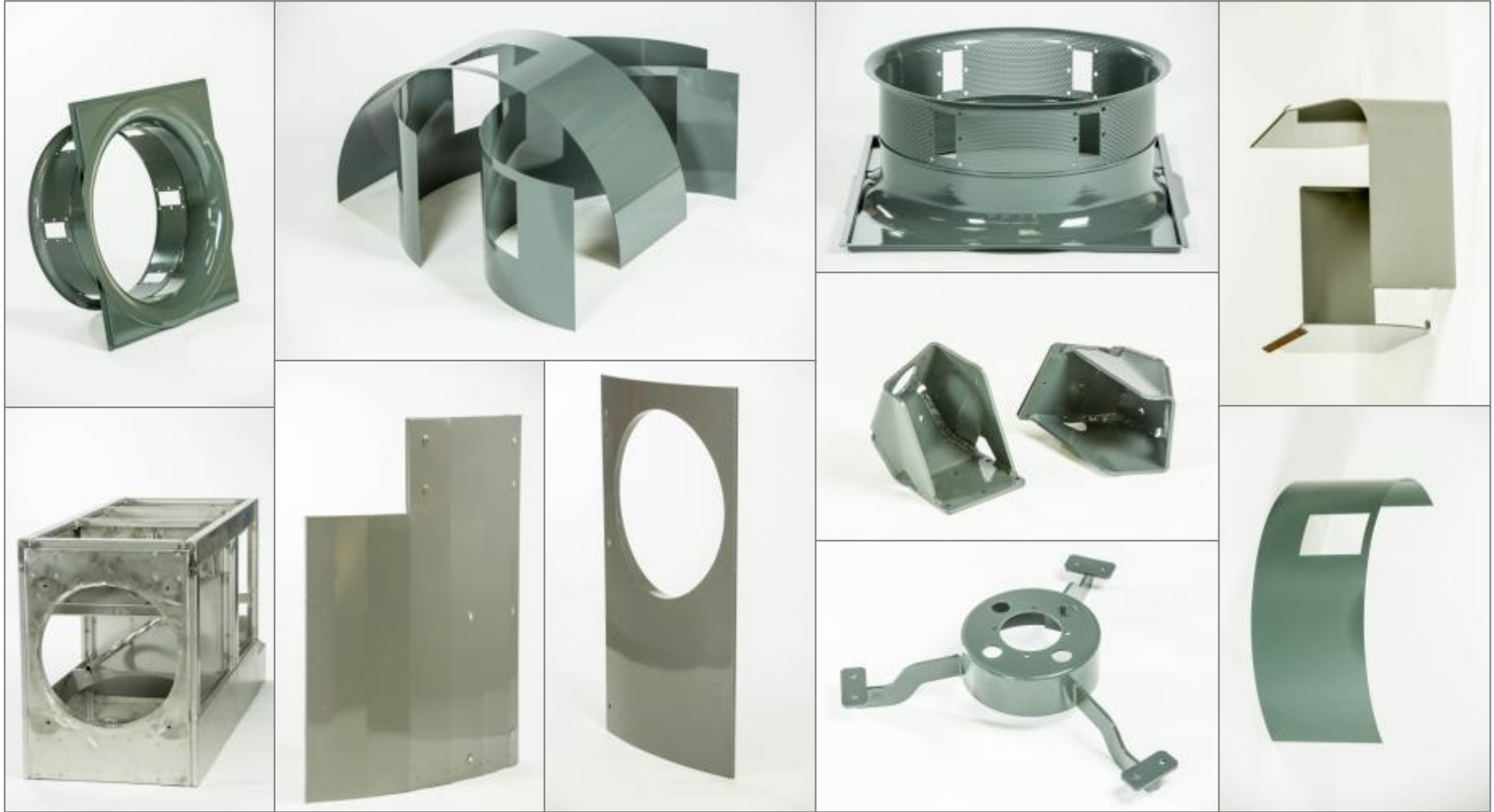


# Metal-sheet products





# Metal-sheet products





3

Powder coating

Wet painting

## Powder coating **Wet painting**

- The **VIVBER Kft.** has expanded its activities in 2006.
- Reliable consistent quality
- Fast response time
- The facility has one of the most pre-treatment technologies in Europe
- Our technology is set so the coating of multiple metal surfaces is possible
- Steel and iron
- Galvanized surfaces
- Aluminum parts
- Stainless steel parts



# Coating/painting processing

## Pre-treatment



- We are working with Gema-coating technology, this is constantly monitored.
- Our employees are experienced painters receiving continuously training.



## Powder coating

## Wet painting



- In our cabin for wet painting the various parts can be coated, also heavy over 500 kg body for air conditioners
- We work with chemicals on water-and solvent-based

- The pretreatment tunnel works with a spray technology, the dimensions are: 1400x2500x7000mm.
- These even extremely large parts are pretreated.
- This tunnel has three types of function (alkaline degreasing, acidic pickling, conversion layer).



4

# Electrical switchgear

# Electrical **switchgear**

- Primary and secondary switchgear / distributor-board
- Electrical main systems / Electrical main panels
- Units from all major manufacturers
- Support
- Planning
- Production
- Assembly
- Cabling
- Installation of electrical switchgear



# Electrical switchgear **product**



# Quality Management

VIVBER Kft. is committed to offering its customers the highest levels of quality in its production and services. The company VIVBER Kft. integrated standards of quality for its workers, to warrant an efficient quality-control system, which includes full-time monitoring of the production processes, expert and experienced personnel, in order to maintain the high quality service which we ensure.

During our manufacturing and implementation we make certain to use only quality material and services which may be required, and add our staff's own touch of expertise too, which we keep in constant training, so that they familiarize themselves with new materials and that may control and monitor the advanced machinery.

The only way VIVBER Kft. can solidify, and expand its position on the market is to entirely fulfil the requirements in the standard of quality, and always live up to, or exceed the expectations of our clients and partners in all our services. According to demands set by the market, we are obliged to upgrade, and constantly monitor our service procedures in order to ensure their effectiveness.

## Certificates / Approvals:

- ✓ ISO 9001:2015
- ✓ ISO 14001:2015
- ✓ ISO 45001:2018
- ✓ EN ISO 3834-2
- ✓ EN 15085-2 / CL1
- ✓ DIN 6701 / A2
- ✓ DIN 2303 / Q1
- ✓ DB TL / DBS 918 340
- ✓ QUALICOAT
- ✓ UL ZPFW
- ✓ SIVACON S8



SIEMENS

Solution Partner





## Contact Us

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Electrical switchgear

Valéria FEHÉR

Quality assurance



**Thanks** For **Watching**