

SBU Engineering



WELCOME TO THE WORLD OF GENERAL ENGINEERING, INDUSTRIAL AUTOMATION AND TOOLING

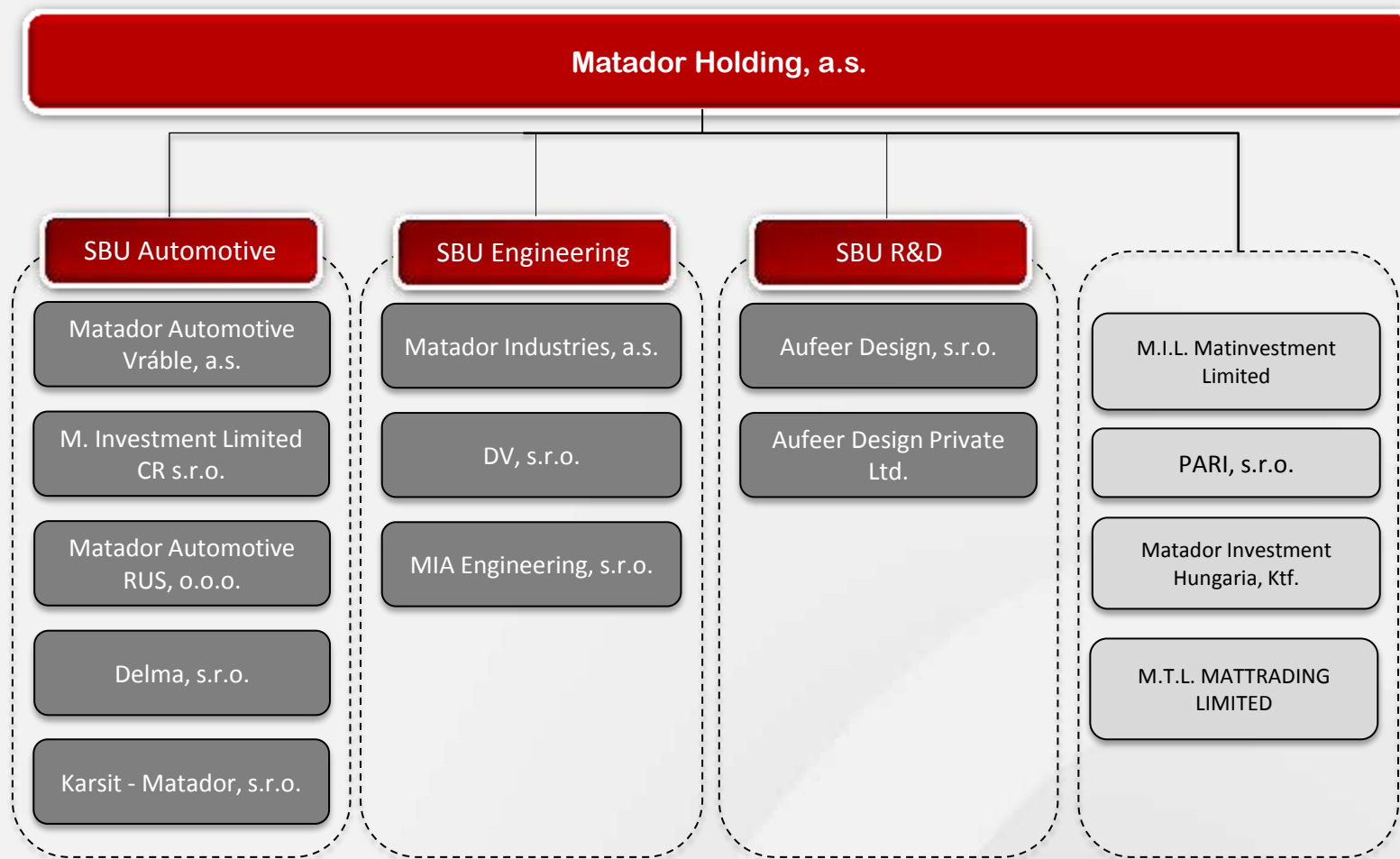
Customized and low-volume series production in the general engineering,
industrial automation and press dies.

MATADOR – history & present

- Private industrial group of companies
- Start of rubber business (production of tyres, conveyor belts, equipments) in 1950
- Acquisition of Matador Automotive Vráble in 2004
- Rubber business sold to Continental AG, Hannover Germany in 2007
- Nowadays focus on automotive and mechanical engineering activities



1905 - 2013



SBU R&D



Aufeer Design

Mladá Boleslav

- Design & A-class
- Car body
- Plastic parts
- Wire harnesses
- CAE/FEA
- Tools & Jigs
- Welding lines
- Cubings



SBU Engineering



Matador Industries

Dubnica nad Váhom

- Tools and fixtures production
- Machining
- Welding lines & Robots



SBU Automotive



Matador Automotive

Vráble

Nitra

Liberec

Nižnij Novgorod

- Pressing
- Welding
- Assembling



Delma

Douvrin

- JV with DELZEN
- Pressing
- Welding
- Assembling
- W & CE Europe



LOCATION – Slovak Republic



Joint Stock Company established In June 30th 1995

MAIN BUSINESS ACTIVITIES

General mechanical engineering



- Welding structure
- Machining
- Complete assembly
- Single purpose machines
- Conveyor systems

Industrial automatization

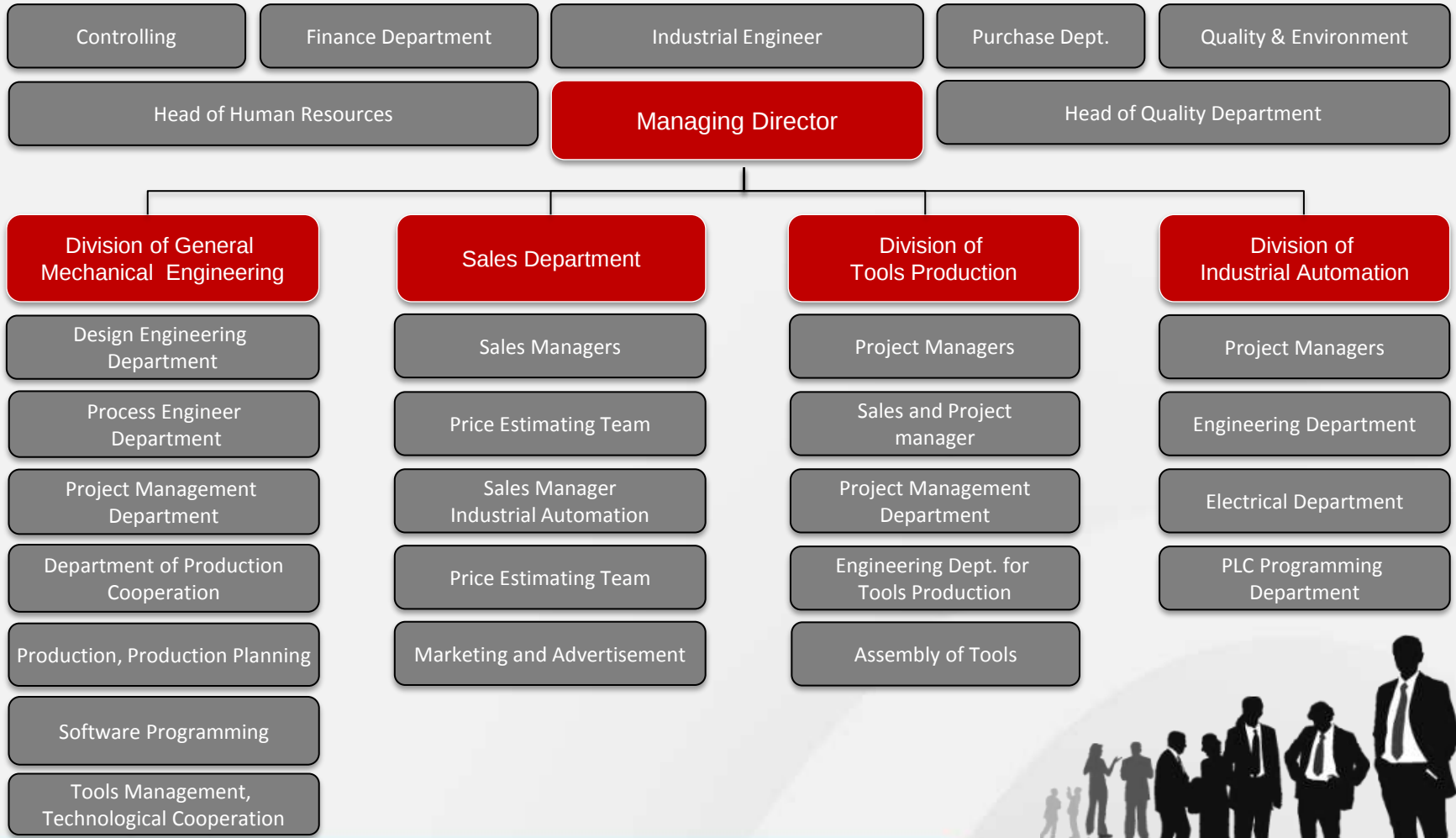


- Supplies of complete solutions for the automotive industry
- System integrator of KUKA Robot
- Automation of production lines & workplaces
- Automated workplace planning – process designer
- Design in CATIA 5, Inventor, Layout design -Microstation
- Online/offline programing , ROBCAD /KUKA, ABB/
- Manufacturing of welding cells, Complete assembly & adjustment
- PLC Programming, Debugging & installation, Tests and trainings
- Warranty service, After warranty service

Tools for stamping parts production



- Transfer dies
- Progressive dies
- Tandem dies



QUALITY ASSURANCE

The company is certified under following standards (the certification verified by TÜV Nord):

- VDA 6.4
- EN ISO 9001 : 2008
- EN ISO 14001 : 2004
- EN ISO 3834 – 2.

Matador Industries a.s continuously expands its operations in every field of its business activities. The most rapidly developing area of our activities is an activity in the field of industrial automation. The demonstration of our status and abilities in this area is an awarding of the prestige certificate from the KUKA Roboter CEE GmbH company **Official System Partner**.



DIVISION of MECHANICAL ENGINEERING



TECHNOLOGIES

- Cutting (oxygen cutting, band saw cutting)
- Forming (straightening, plates rounding, bending, chamfering)
- MIG, MAG, TIG Welding
- Horizontal turning (max. length 6000 mm, $\varnothing$ 720 mm)
- Vertical turning ($\varnothing$ 2860 mm, CNC lathe $\varnothing$ 2000 mm)
- Milling, boring (12 CNC machines, workpiece dim. 8000 x 2500 x 800 mm)
- Grinding (surface grinding, cylindrical grinding)
- Heat treatment (annealing, inductance hardening)
- Surface treatment (sand blasting, wet painting)
- Assembly - electro, pneumatic & hydraulic circuits
- Measuring: Zeiss MMZ-B max. 5000 mm x 2500 mm x 2000 mm,
Wenzel LH1210 max. 2500 mm x 1200 mm x 1000 mm,
Zeiss C700 max. 1000 mm x 800 mm x 500 mm,
Leica Laser Tracker 1500 mm - 15 000 mm



..... RUBBER INDUSTRY



Hydraulic curing presses



Tyre building machine

..... TRANSPORTATION INDUSTRY



Crusher



Welding jig - railway

..... AIRCRAFT INDUSTRY



Assembly Jig – Airbus wings



Assembly Jig – Airbus fuselage

..... OIL & GAS INDUSTRY



Hydraulic connector - Piston



Outer cylinder

..... COMPONENT MANUFACTURING



Tension leveller



Welding, machining

..... COMPONENT MANUFACTURING



Machining, assembly



Parts production

..... MEDICAL INDUSTRY



Gamma camera



Gamma camera

..... NUCLEAR INDUSTRY



Welded frames



Base frames

..... BEVERAGES INDUSTRY



Welding, machining



Base frames

..... AUTOMOTIVE INDUSTRY



Palletes



Checking jigs

..... CONVEYOR SYSTEMS



Conveyor System for metal
trash collection



Conveyor System for metal
trash collection

..... AUTOMATIC LINES

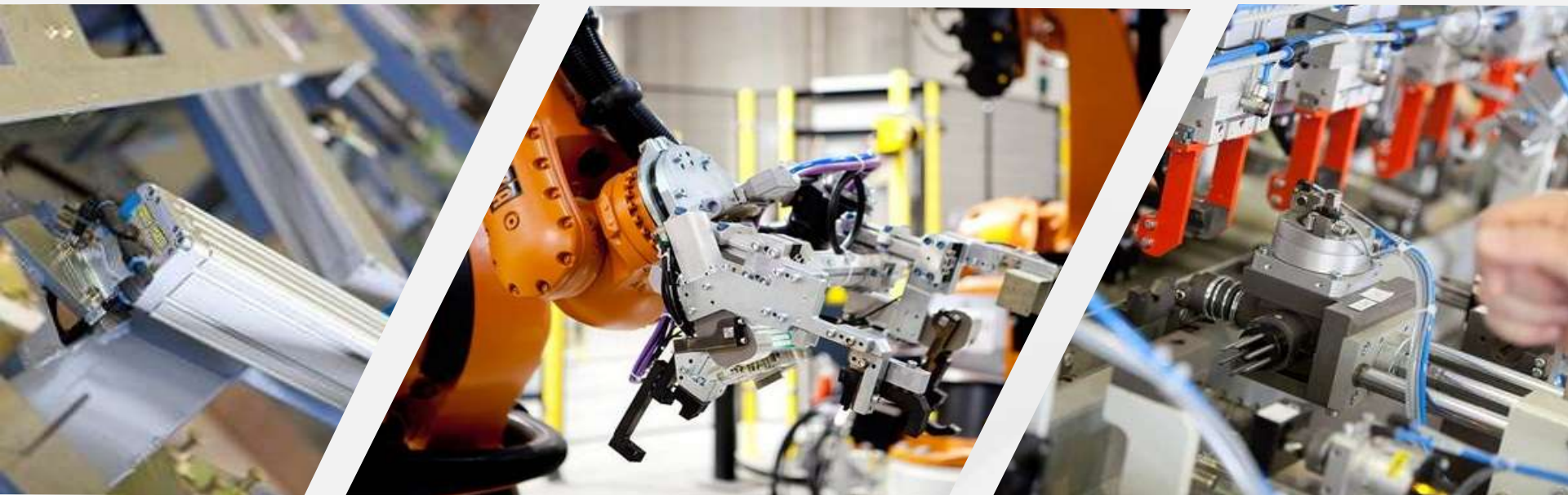


Manipulation



Equipment for assembly
bearings

DIVISION of INDUSTRIAL AUTOMATION



Industrial automation

- Design & Engineering & Programming
- Process simulation
- System integrator
- Industrial robots for storage, material handling and logistics
- Special industrial robotics applications
- Conveying systems
- Stamping shop – automation
- Single purposes machines & equipment
- Trainings and services for robots



MANIPULATORS



Operator Safety –manipulating
Robots KUKA in operation

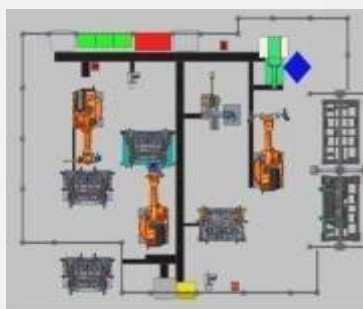


Cockpit manipulator- jig for
mounting of CCB into the cockpit

MANIPULATORS

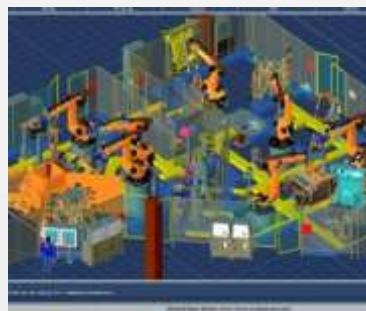


Cockpit Manipulator –jig for
attachmend of mounting plates



Cockpit Manipulator – virtual
Layout of future workplace

WELDING CELLS, JIGS



Welding automatic lines



Welding cell – Colorado NF

WELDING CELLS, JIGS



Welding – robot KUKA



Simulations – virtual Layout of
Future welding line

ROBOTIC CELL, WELDING



Jig

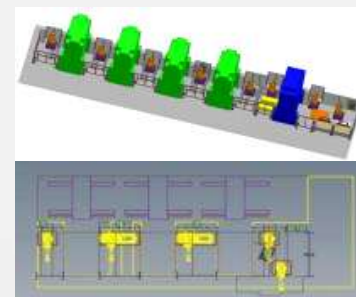


Jig

WELDING CELLS, JIGS



Welding cell



Stamping shop

ROBOTIC CELL, WELDING



Robot with using
an external axis



Welding cell CCB

ROBOTIC CELL, WELDING



Parts of the floor
for manual welding workplaces:
Yeti, Jetta, Octavia



Robotic workstation - GAZ
Project for models:
Yeti, Jetta, Octavia

DIVISION of TOOLING



Tools

- Tools for stamping parts production
- Drawing simulation
- Technology + Lay-out + Tools Design
- Transfer Tools
- Tandem Tools
- Progressive tools
- Final assembly
- Try-out presses (800 t, 1200 t)



..... **WORKING AREA**



Spotting presses

Hydraulic press LOIRE 800

..... **WORKING AREA / MACHINES**



Workshop area



Milling casting on
5-axes centre FRFQ 250

..... **WORKING AREA**



Onapress 1200

- Table size:
4900x2500 mm
- Lift: 1700 mm
- Force: 1200 T
- Upper pad: 90 T
- Raster:
150x300 mm

... **AUTOMOTIVE INDUSTRY- CHECKING JIGS** ...



Checking jig



Checking jig

..... **AUTOMOTIVE INDUSTRY- TOOLS**



Lower shoe of Draw die



Trim tool



Heat shield after
triming operation



Pilier roof - operation draw

..... **AUTOMOTIVE INDUSTRY- PARTS**



Sheet metal inside door
after cutting operation



„Wasserkasten“ operation draw



Inside door – trimming operation



Floor

Working Area



Measuring Equipment

- Measure centre ZEISS
- WENZEL LH 1210
- 3D Leica scanner

Technological
range
.....

5000 x 2500 x 2000
1200 x 2500 x 1000
1500 - 15 000



ERP system – customised production

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Design & Projection Activities



- Design, Support and Service of wide range of machinery & equipment for automotive, rubber & general engineering industry
- Hydraulic, pneumatic & electrical design in house
- Following software programs using for a design of equipments, production lines & automation equipments:
 - Pro/Engineer WildFire, AutoCad, CATIA, Inventor, E-plan, ProTool
 - Control design using Simatic S7 and Allen Bradley
 - Full support of design data types: 2-D Design: .dxf, .dwg, .tiff,
 - 3-D Design: Pro/Engineer, models: .prt, .igs, .stp,
 - Pro/Engineer, assembly: .asm,
 - CATIA.model: .CATpart, .igs, .stp,
 - CATIA.assembly: .CATProduct, .assembly
- Complete technological preparation of production, processing of NC & CNC programs in the Surfcam for 2 - 6 axis system.

Our Customers

European/Asian customers from:

- Automotive industry
- Oil & Gas industry
- Nuclear industry
- Rubber industry
- Medical industry
- Food & Beverages industry
- Packing industry
- Aircraft / Transportation



What we offer – our advantages

Complex production chain including:

- Sales and project management
- Design & technology
- Machining, production & assembly
(electric, pneumatic, hydraulic)
- Measuring and protocols
- Skilled and experienced staff
- Service



Contacts

Ing. Miroslav Klabník, PhD.

Managing Director

☎ +421-42-3810 200

✉ miroslav.klabnik@matador-industries.sk



Ing. Jozef Putala

Director of General engineering & Automation

☎ +421- 42-3810 203

✉ jozef.putala@matador-industries.sk

Ing. Peter Vlčák

Director of Tools production

☎ +421-42-3810 205

✉ peter.vlcak@matador-industries.sk

Ing. Štefan Kukučka

Sales Director

☎ +421- 42-3810 206

✉ stefan.kukucka@matador-industries.sk



Ing. Juraj Čapek

Director of Industrial Automation

☎ +421- 42-3810 633

✉ juraj.capek@matador-industries.sk

Info

MATADOR Industries, a.s.

☎ 421-42-3810 201

✉ direct@matador-industries.sk



MATADOR Industries, a.s.

Továrenská 1
Dubnica n/V 018 41
SLOVAKIA

GPS position:
48°57'53" N
18°11'15" E



Thank you very much
for your kind attention

