



“CONNECTING POWER”

HESSEL



"co. HESSEL on the market since 1972."



Hessel Gerätebau GmbH
SALES & MARKETING CABLE HARNESSES PRODUCTION
Brügelweg 6
42579 Heiligenhaus



Hessel Slovakia sro
CABLE HARNESSES PRODUCTION PLANT
Stanická 502
95201 Vrable





History:

"From wiring harness through switches production, plastic- and metal processing – company Hessel follows the requirements and specifications of the customers."

1972

foundation Hessel Gerätebau GmbH in Heiligenhaus, Germany by Reinhard Hessel
production and sales of electronical units for agriculture

1987/ 88

start of first cable harness production in cooperation as IGS for Leoni

1990/91

extension of wiring harness business with Siemens and Temic (AEG-Telefunken)

1993

own cable harness factory established in Vrable, SLOVAKIA

1995

Hessel only IGS for Daimler motor cable harnesses for Temic – than Delphi

2001

own cable harness factory established in Volovec, Ukraine

2005

Foundation of independent family owned Carbon fiber company C2i

2007

Vrable plant set-up as lead plant for process engineering and QS

2009

dislocation of complete IGS Delphi production to Delphi plants

2011

Starting to act as a full service supplier with commercial center for sales, marketing & purchasing in
Heiligenhaus

2012

establishing an independend in-house testing technology production

2013

Gaining OEM customers such a Zetor, Jungheinrich, Magna Steyr, Porsche

2018

System solutions for cable harnesses, product development, clean room production

2024





Established: 01.01.1993
Production place: SK - Vrábľe - industrial park
CEO: Mr. Reinhard Hessel



- very good high way connection, Bratislava/Vienna airport within 2hrs
- plant area of 20ts sq. metres
- wide Automotive management systems experiences
- in house engineering, tooling, testing technologies
- JIT, JIS, VMI, CONSI logistic systems
- automotive, Office technique, Motor sport, Agriculture
- Turn over growth from 4.7mio in 2011 to 12.7mio in 2024

„Our production facilities are full property of Hessel group.“



Integrated Supplier

Full-Service

Sub-Systems

System Supplier

1988-2001

- Mercedes engines
4-12 cyl.
- Car mirrors
- CAT cables
- DAF engine
- Dental RTG
- Solar systems
- Tyco medicine

2002-2011

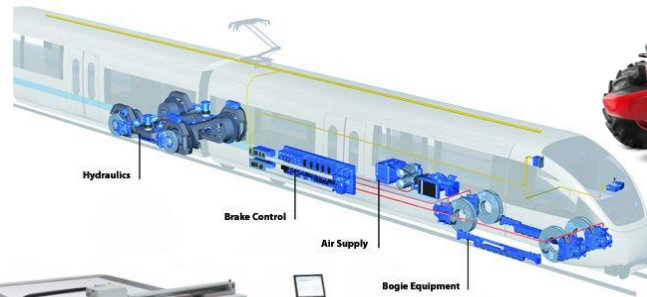
- Seatbelt
- Airbag
- Transmission
- Pump systems
- Steering
- Battery Cables
- Brake systems
- Printers

2012-2019

- Steering columns
- Center Console
- Train ABS sensors
- Light Systems
- Tractor Cabine,
dashboard, engine,
etc.

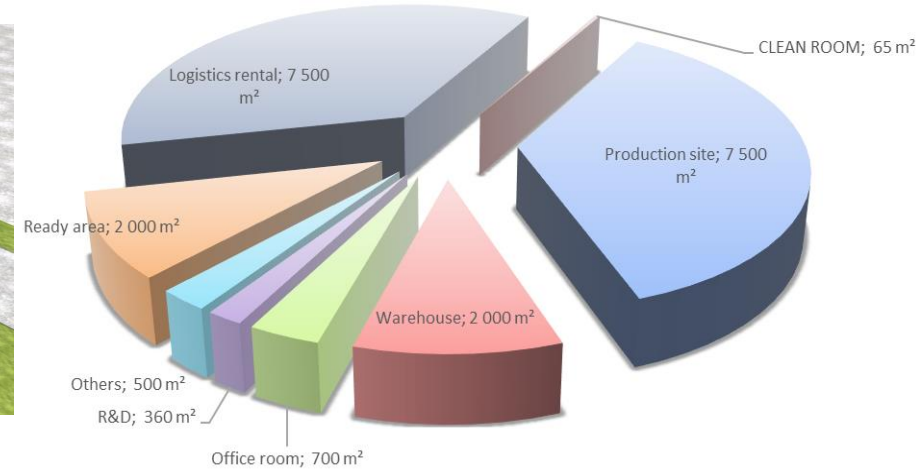
2023ff

- Product
development
- Advanced
electronical
assemblies
- Clean room
production





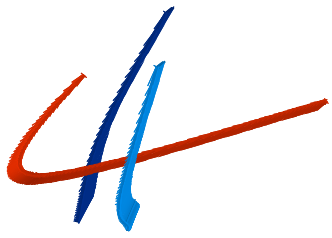
Production Location



„Our production facilities are full property of Hessel group.“



Production site	7 500 m ²
Warehouse	2 000 m ²
Office room	700 m ²
R&D	360 m ²
Others	500 m ²
Ready area	2 000 m ²
Logistics rental	7 500 m ²
CLEAN ROOM	65 m ²



About us – production scope

“ With our production locations in eastern europe we provide our customers competitive products in high quality.”



Automotive

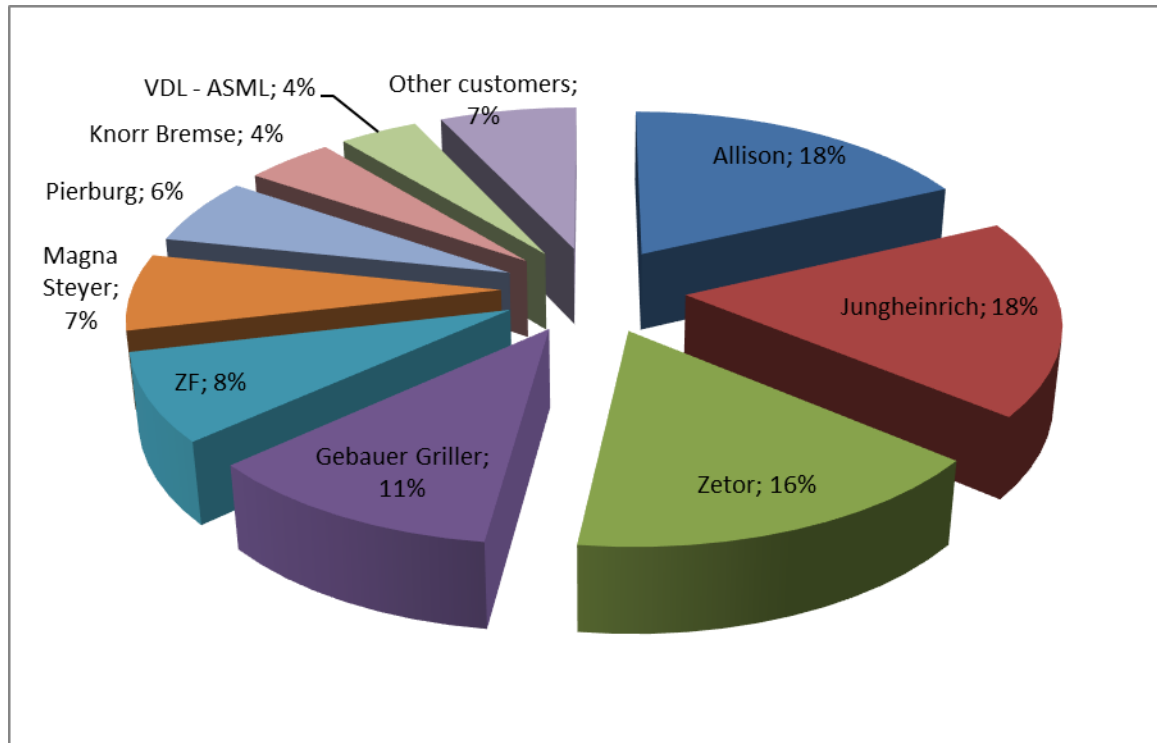
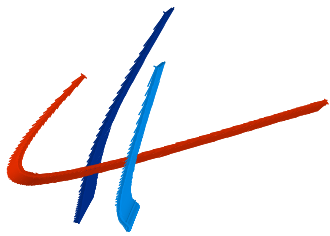


**Commercial
Vehicles**



Non-Automotive

Hessel provides competitive products in all market segments



55%
Automotive Industry

25%
Commercial Vehicle

20%
Non Automotive



wiring harness





JUNGHEINRICH
Machines. Ideas. Solutions.

Allison
Transmission

PIERBURG



PORSCHE



MAGNA STEYR



Gebauer & Griller

KNORR-BREMSE

faurecia

WABCO



RPC
PROMENS

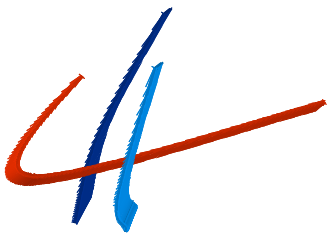
GESSMANN

NEW SOP 2024:



NEW OPPORTUNITIES 2025:

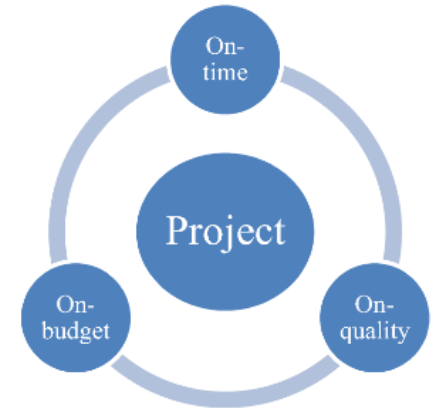




PPM 2023:

Number of claimed parts: 13 pcs
Number of shipped parts: 2 448 352 pcs

Total PPM : **5,31**

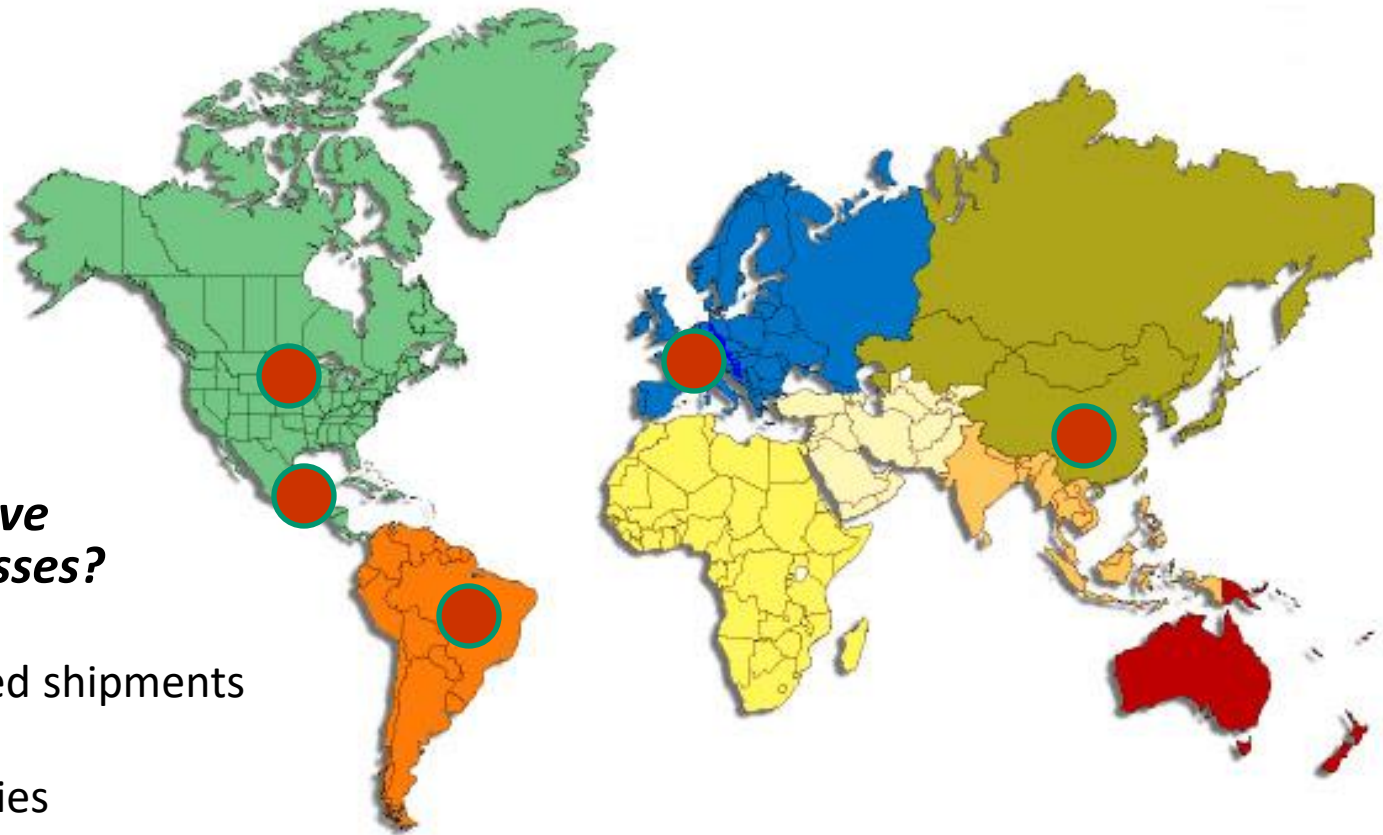
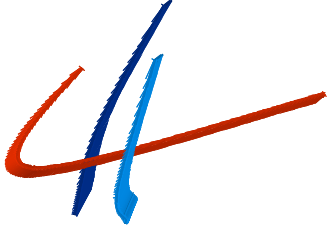


Delivery performance 2023:

Total performance: **95,1%**



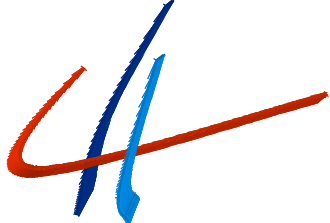
“Quality of our products and customer satisfaction is our permanent priority”



How do we drive logistics processes?

- Sub-contracted shipments
- Direct deliveries
- Just-In-Time deliveries
- Vendor-Managed-Inventories





TUVNORD

Certificate

Management system as per
IATF 16949:2016
(1st edition, 2016-10-01)

Evidence of conformity with the above standard has been furnished and is certified for

Hessel Slovakia s.r.o.
Staničná 502
952 01 Vrábľe
Slovakia

USI: TW2YXA

Scope

Manufacturing of cable harnesses

without product design responsibility (according to section 8.3)
with the remote functions according to appendix

IATF Registration No. 0515060
Certificate Registration No. 44 111 097261

Issue date: 2024-05-06
Expiry date: 2027-05-05



Visit our database to
verify the validity of
this certificate.

Essen, 2024-05-06

Certification Body at TÜV NORD CERT GmbH

This certification was conducted in accordance with the IATF „Rules for achieving and maintaining IATF recognition“.

TÜV NORD CERT GmbH
Am TÜV 1, 45307 Essen
www.tuev-nord-cert.com



Page 1 of 2

A13F201 Rev. 03/12.23

TUVNORD

Certificate

Management system as per
EN ISO 9001:2015

The Certification Body TÜV NORD CERT GmbH hereby confirms as a result of the audit, assessment
and certification decision according to ISO/IEC 17021-1:2015, that the organization

Hessel Slovakia s.r.o.
Podháj 133
841 03 Bratislava
Slovak Republic

at location: Staničná 502, SK - 952 01 Vrábľe

operates a management system in accordance with the requirements of EN ISO 9001:2015 and will
be assessed for conformity within the 3 year term of validity of the certificate.

Scope

Manufacturing of cable harnesses.

Certificate Registration No. 44 100 097261
Audit Report No. 1591/2023

Valid from 06.05.2024
Valid until 05.05.2027
Initial certification 2010

Prague, 06.05.2024

Certification Body at TÜV NORD CERT GmbH

TÜV NORD CERT GmbH
Am TÜV 1, 45307 Essen
www.tuev-nord-cert.com

TÜV®



TUVNORD

CERTIFICATE

Management system as per
EN ISO 14001:2015

Certification body No. 3258 of the company TÜV NORD Czech, s.r.o., certifying management systems,
accredited by ČIA according to ČSN EN ISO/IEC 17021-1:2016, hereby confirms that the organization

Hessel Slovakia s.r.o.
Podháj 133
SK- 841 03 Bratislava

production site: Staničná 502, SK - 952 01 Vrábľe



operates a management system in accordance with the requirements of EN ISO 14001:2015 and will be assessed
for conformity within the 3 year term of validity of the certificate.

Scope

Production of cable harnesses.

Certificate Registration No. 3258 104 24 52 0146
Audit report No. 7798/2021

Validity from 06.03.2022
Validity until 05.03.2025
Initial certification 2013

Ing. Jiří Panáček
Head of the Certification Body
TÜV NORD Czech, s.r.o.

Praha, 25.04.2024

TÜV NORD Czech, s.r.o.

Českomoravská 2420/15

CZ - 190 00 Praha 9

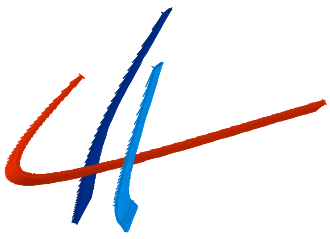
www.tuev-nord.cz



- ISO 9001:2015
- ISO 14001:2015
- IATF 16 949:2016
- UL Wiring harnesses

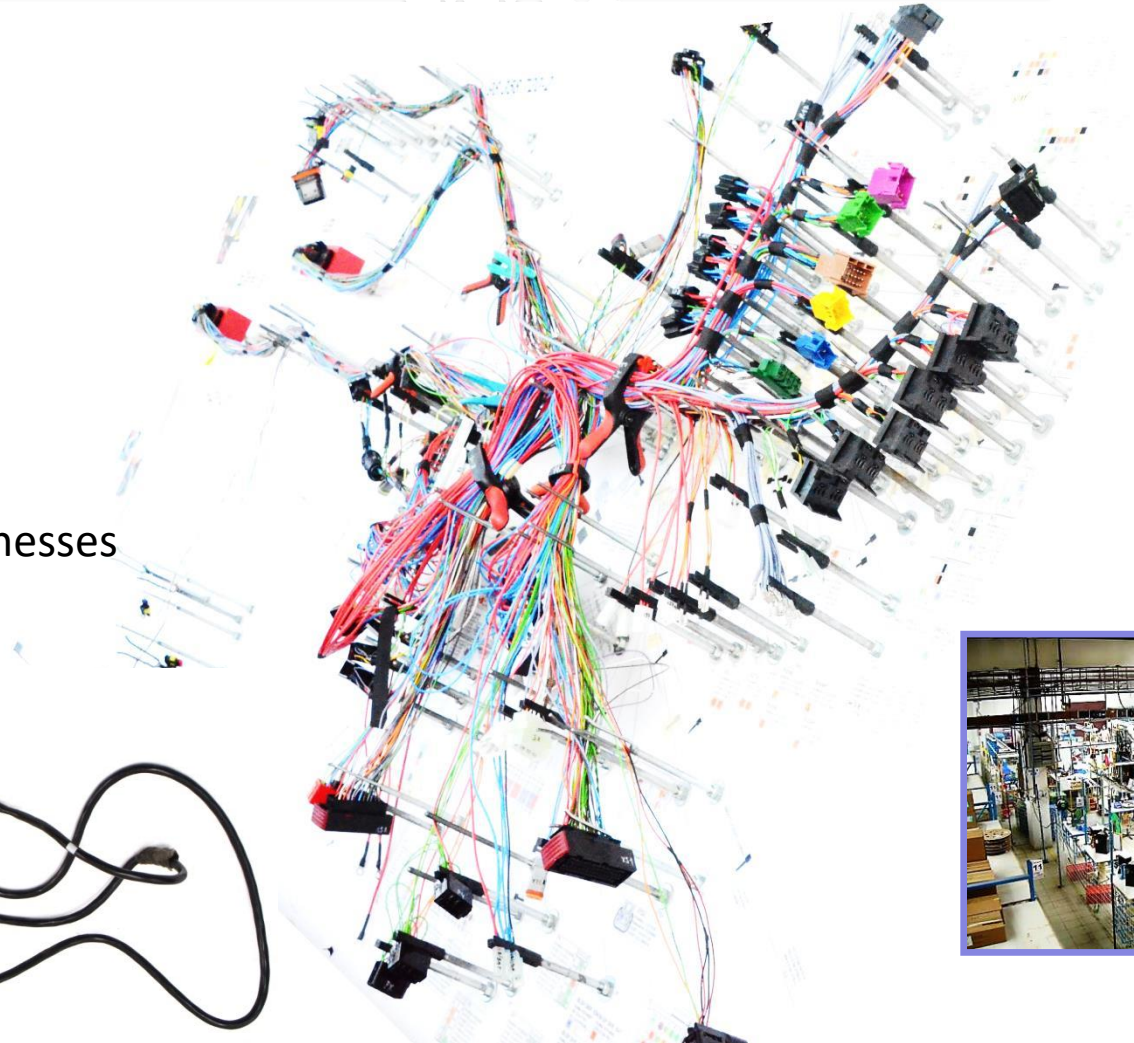


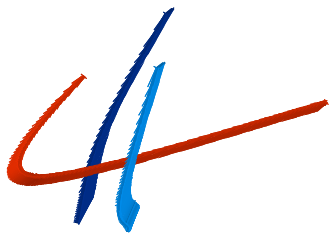
*“Quality of our products and customer
satisfaction is our permanent priority”*



CABLE HARNESS PRODUCTION

- safety
- airbag
- ABS sensors
- system
- battery
- complex harnesses





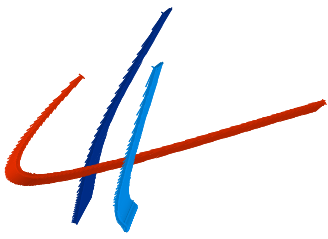
SWITCHES ASSEMBLY

- steering column switches
- micro switches
- switches for door lock systems



„PORSCHE 911 CUP
Edition 2013“

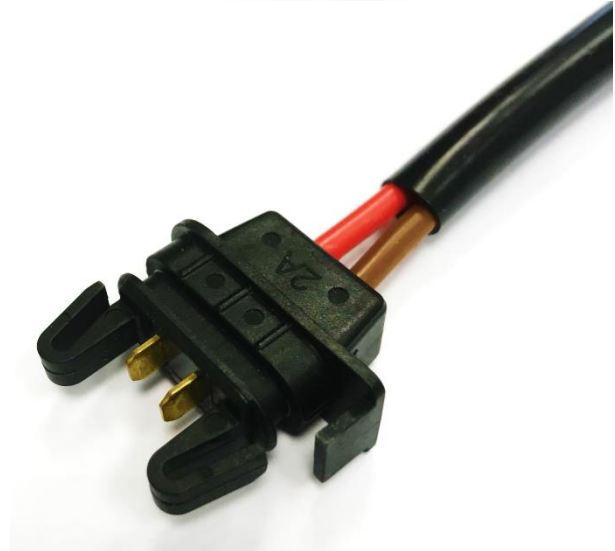
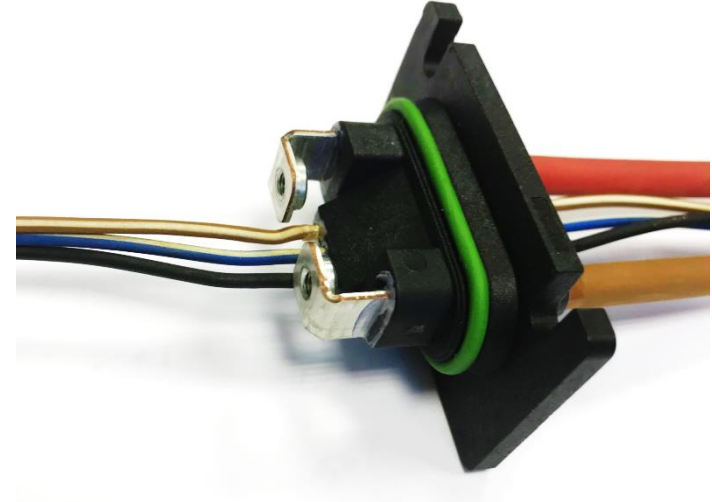




OVERMOLDING

*"We can process materials (PE, PP and PA)
from 10g to 1kg."*

- tooled moulded parts
- injection moulded inserts

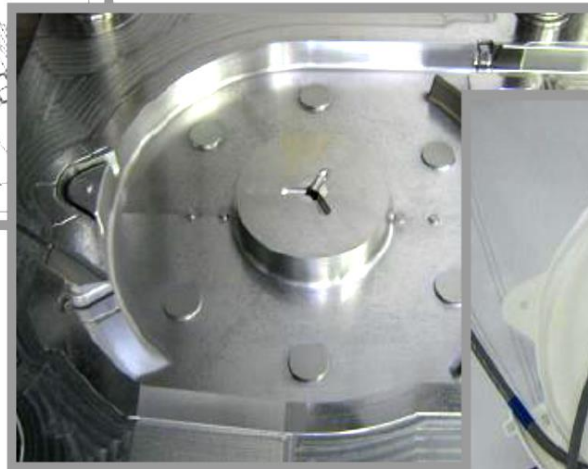
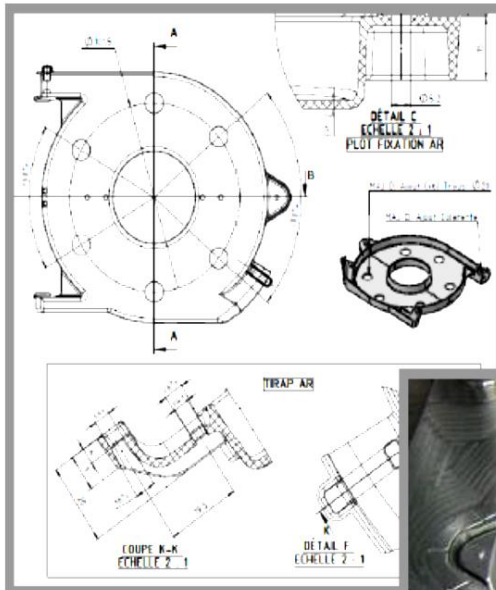


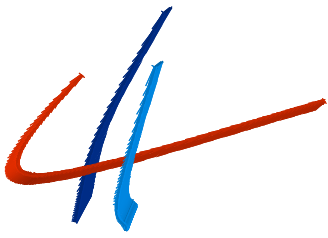


OVERMOLDING

*“We can process materials (PE, PP and PA)
from 10g to 1kg.”*

Special customer applications
– up to 200t press

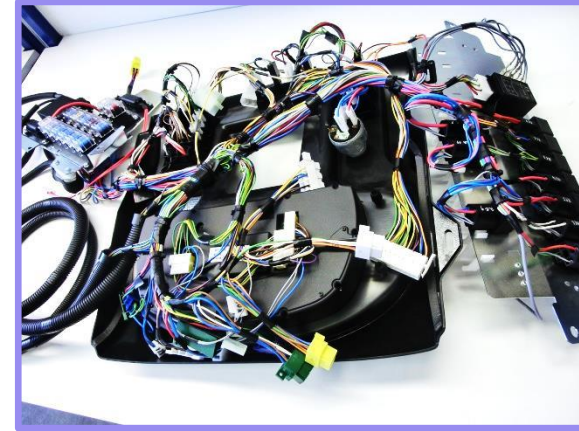




ADVANCED ASSEMBLY UNITS

“from wiring harnesses up to complex solutions”

- Hessel cable harnesses applications
- Cabin dash-boards
- Cabin side panels



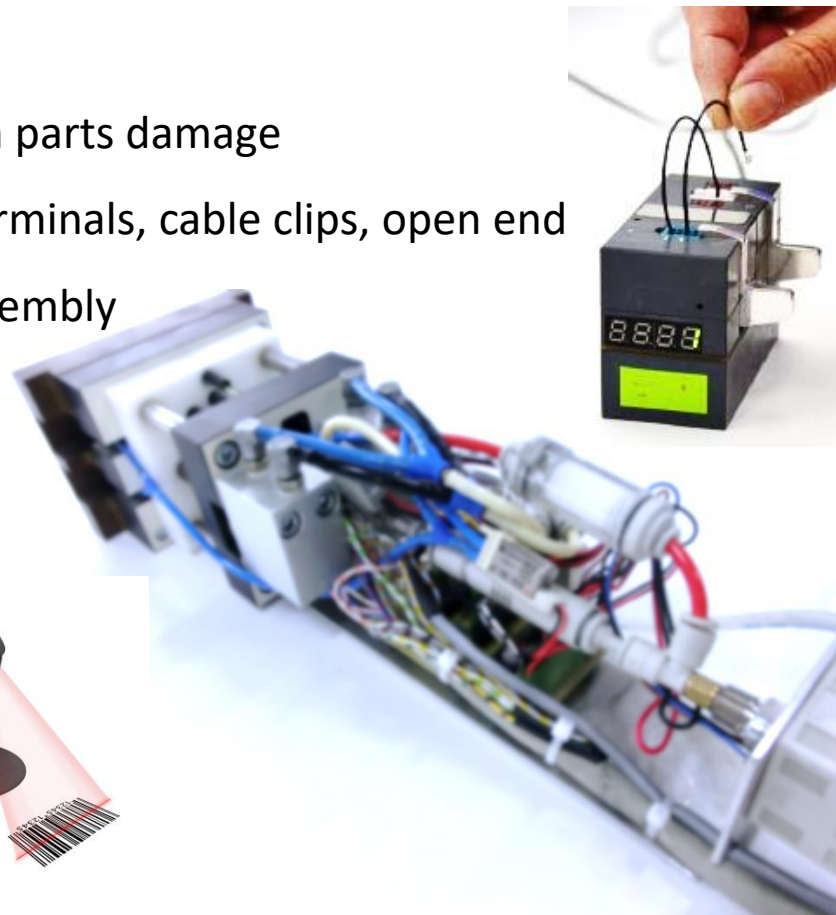


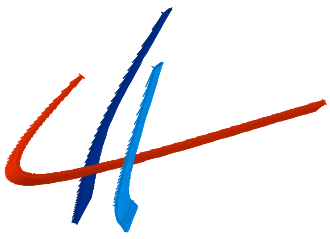
TESTING SYSTEM PRODUCTION:

“100% of our cable assemblies are proofed by final electrical test made by HESSEL”

TESTING TECHNOLOGIES:

- Testing modules
- Test board, functionality approval, non-conform parts damage
- Assembly boards with modules for housings, terminals, cable clips, open end
 - active function – direct EK testing after assembly
 - passive modules – support for assembly
- Helping tools
- Poka-Yoke tools
- High Voltage units
- Leakage testing units





CUTTING AND CRIMPING:

“More than 60 mio cutted leads per year”



16 Komax cutting Machines

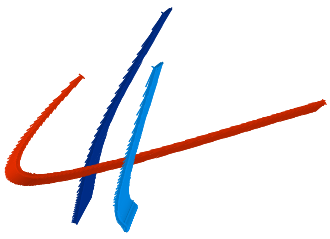


“Up to 10 mio single crimps ”

“From 32AWG up to 70mm² ”

Crimping Tools:

Schäfer, Hanke, Schleuniger,
Mecal, TE

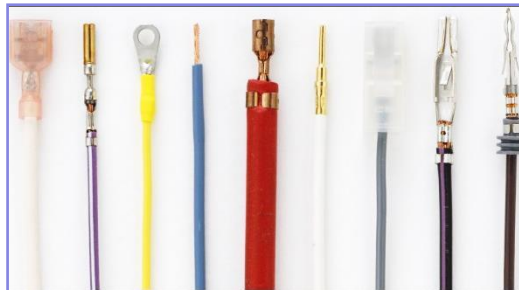


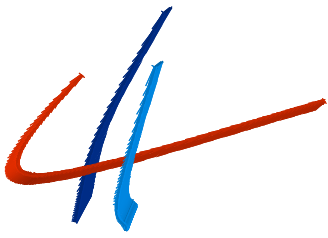
CUTTING AND CRIMPING:

“ > 10mio manual crimps per year”



- simple crimp
- double crimp
- strip-crimp
- splice
- IDC





OTHER TECHNOLOGIES:



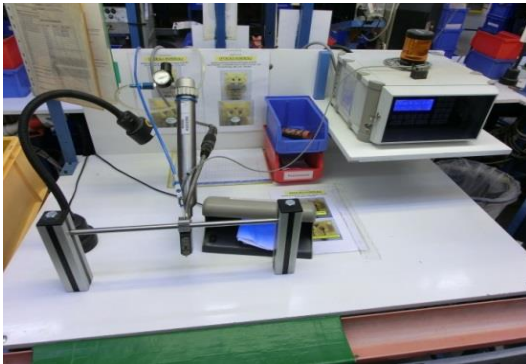
Inkjet datamatrix marking



Wire marking



Tube heat shrinking



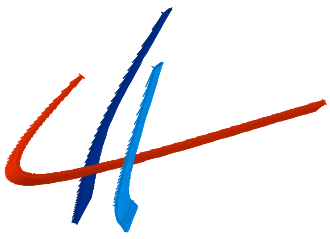
Special coatings application



Wires twisting



ULTRASONIC WELDING

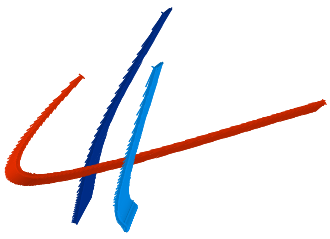


CLEAN ROOM PRODUCTION:

“ since 2023 we are acting as a clean products supplier for chip market ”



“ we meet standard ISO 6 according to ISO 1644-1 : 2015, ASML cleanliness level GRADE 4 ”

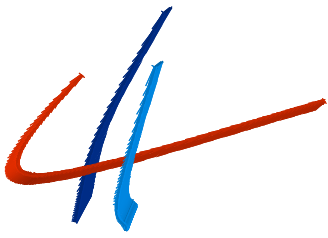


DESIGN / DEVELOPMENT:

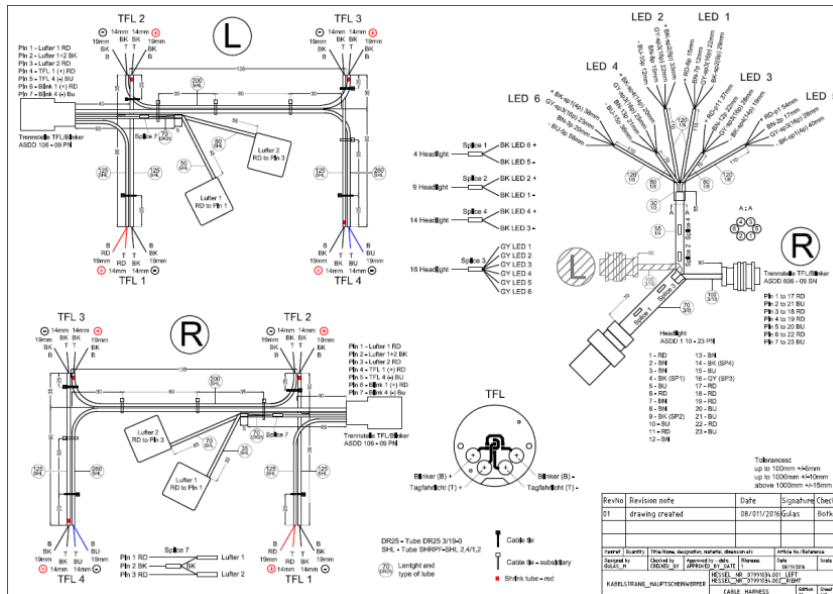
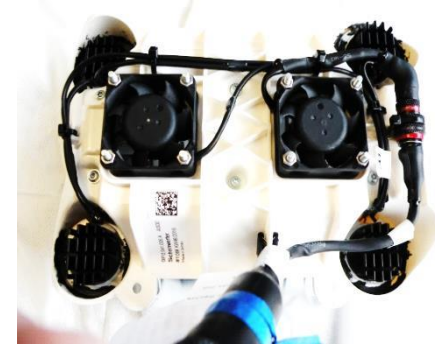
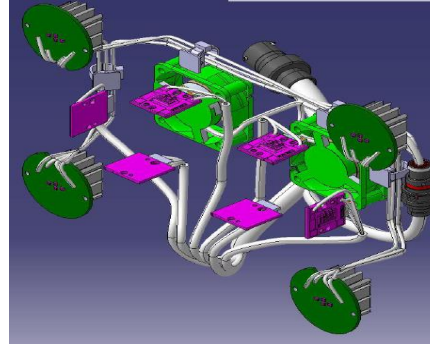
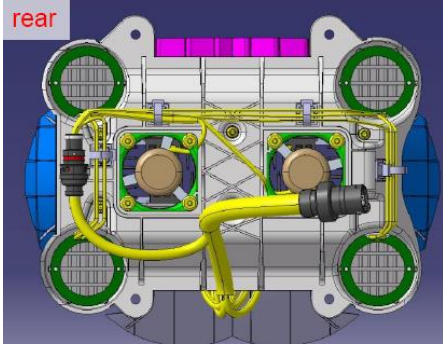
PORSCHE CENTRE CONSOLE and STEERING WHEEL

- project driven between Porsche / Hessel
- Hessel cable harnesses design
- complete testing /simulation technology



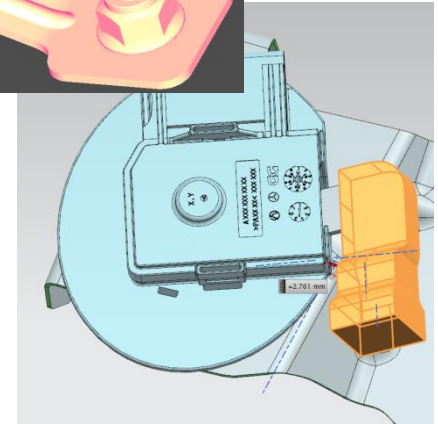
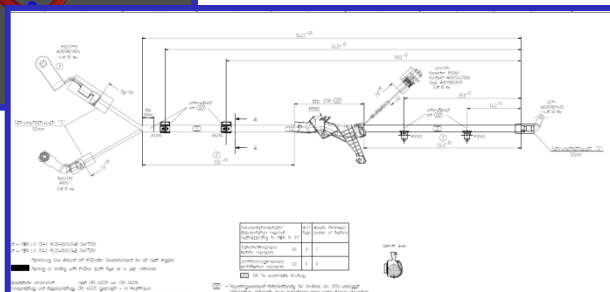
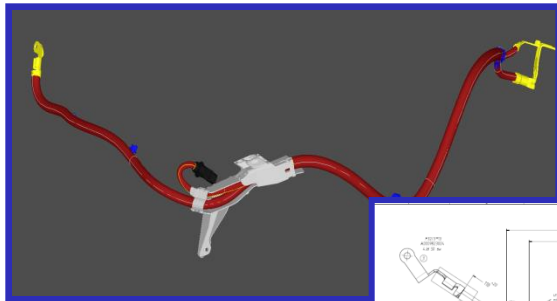
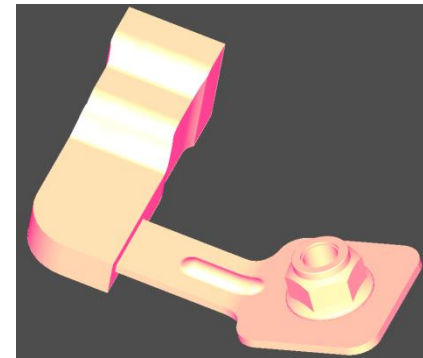
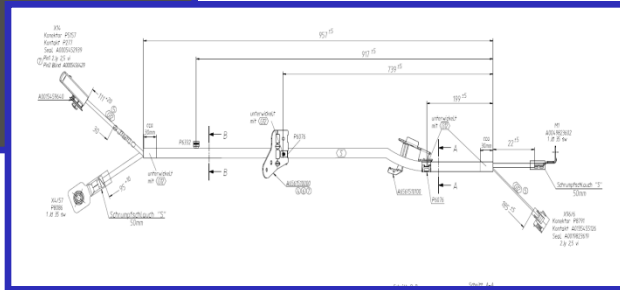


DESIGN / DEVELOPMENT LED LAMPS:



DESIGN / DEVELOPMENT:

- [illegible]

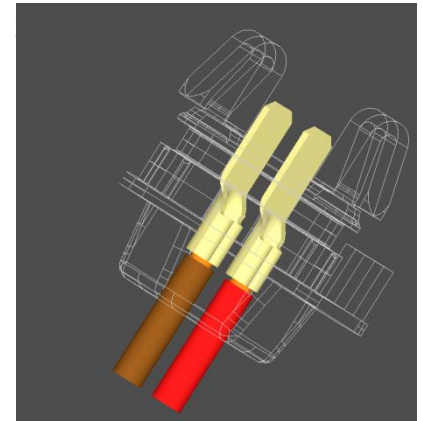
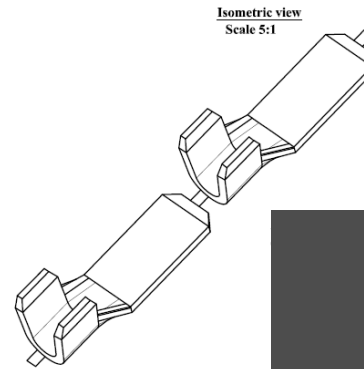
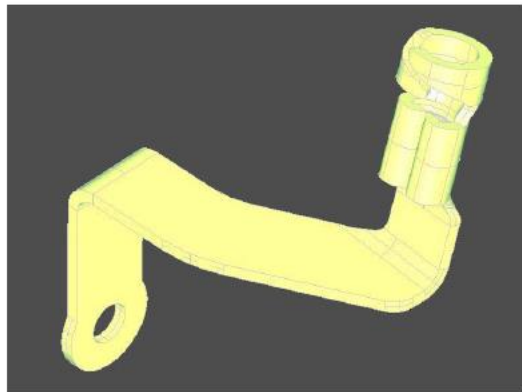


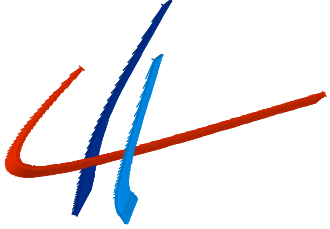


DESIGN / DEVELOPMENT SPECIAL TERMINALS:

design and construction of unique terminals

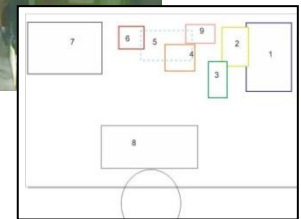
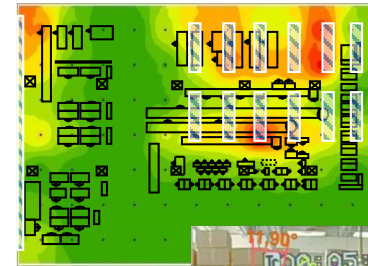
- customized dimensional solutions
- material thickness up to 2.5mm²

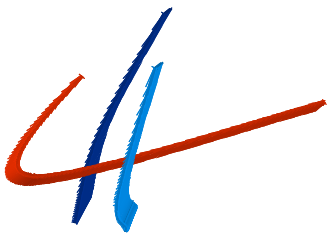




Company cooperation partners:

- **Faculty of Engineering, SUA Nitra**
 - Co-supervision of MSc thesis
 - Input in educational process
 - Final thesis projects
- **High school of technicals, Zlate Moravce**
 - Dual education – practical placements
 - Training of future technical positions





Key Strenghts:

- ✓ *Close to customer*
- ✓ *High flexibility*
- ✓ *Slovakia location still enables to offer competitive pricing*
- ✓ *Automotive experienced management*
- ✓ *High Know-How, long term experiences in cable harnesses production as well as its advanced electronical assemblies such a control panels, driving KITs etc.*



www.hessel.eu

