

# GALVANTA

Your plating experts



*THE CENTRE OF ANTICORROSIVE, DECORATIVE  
AND TECHNICAL PLATINGS*

*23 YEARS OF ECO-FRIENDLY INNOVATIONS*

[www.Galvanta.eu](http://www.Galvanta.eu)

# GALVANTA

Your plating experts



Today we would like to  
present:

- ✓ Company
- ✓ Plating processes
- ✓ Quality Management
- ✓ International experience

## About us...



### ***GALVANTA UAB***

was established in 1998 as the family owned company

# GALVANTA

Your plating experts

## About us...



and 23 years goes hand to hand with the latest, environmentally friendly Western technologies.

[www.Galvanta.eu](http://www.Galvanta.eu)



# GALVANTA

Your plating experts

## About us...



Now *GALVANTA* have:

- ✓ production area about 5000m<sup>2</sup>
- ✓ full automatic production lines with elastic programs;
- ✓ 68 employees.



[www.Galvanta.eu](http://www.Galvanta.eu)

## Plating processes



- Anticorrosive general
- Anticorrosive automotive
- Technical
- Decorative
- Anodizing
- Surface renovation
- Additional services



## Anticorrosive



➤ **Blue zinc plating** - Glossy surface, blue colour. Excellent decorative features

➤ **Yellow-rainbow zinc plating** – Glossy surface, yellow colour with a rainbow tint. Resistance to “white” corrosion - 300 h.

➤ **Black zinc plating** - Glossy surface, colour black. Widely applied in optical industry.



## Anticorrosive automotive



- **ZnGSI** - Silver iridescent with thick layer passivation. Excellent anti-corrosive properties
- **ZnFe** - Grey or black colour. High corrosion resistance. “White” corrosion resistance - 240 h; “red” - 360 h.
- **ZnNi** - Grey or black colour. Exceptional corrosion resistance, “white” corrosion resistance - 240 h; “red” - 720 h.

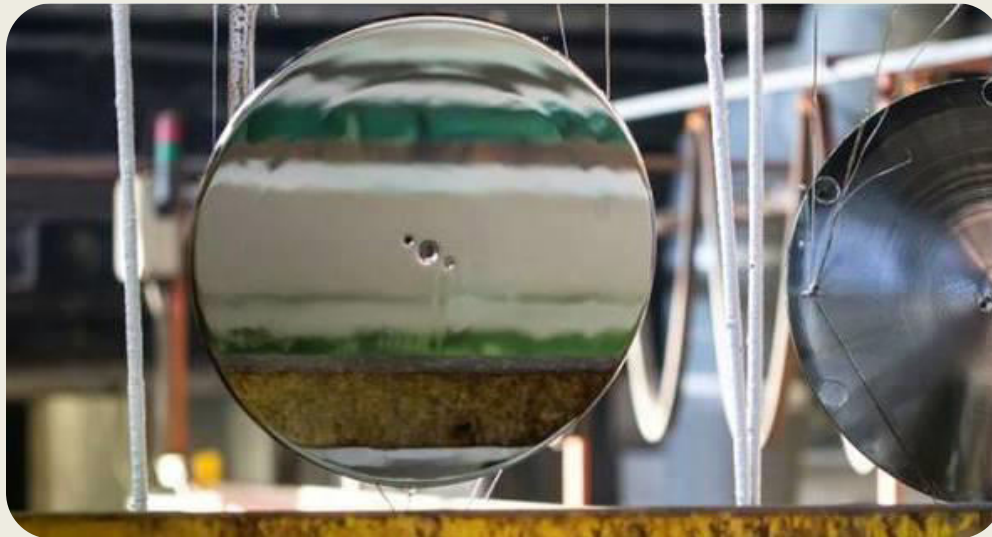


## Technical

- **Tin plating**
- **Matt nickel plating**
- **Copper plating**
- **Black oxide**



## Decorative



- **Chrome plating** – glossy surface, colour of metal with a “blue” tint.
- **Nickel plating** – glossy surface, colour of metal with a “warm” tint.
- **Copper** and vintage copper plating

# Aluminium anodizing



- **Colourless anodizing** – Ensures resistance to friction, excellent corrosion-resistance and good decorative features.
- **Colour anodizing** – Black, gold, blue, red and other colours.
- **“Satin” anodizing** – The same as with anodizing advantages – see above. Silky surface. Can be different colours



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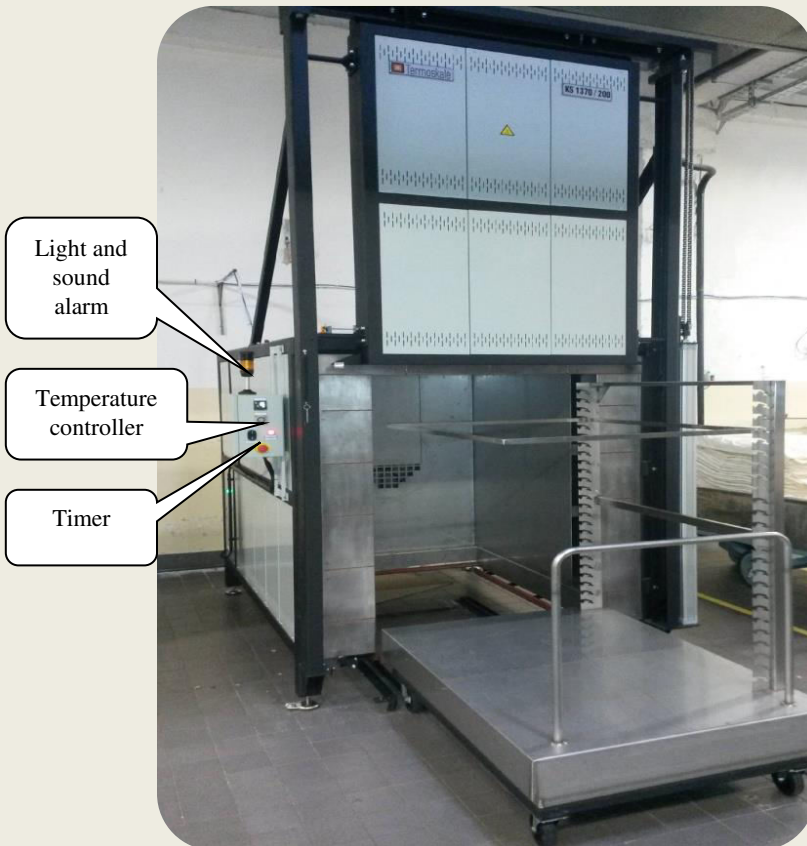
## Surface renovation for Old Automobile



Chrome surface repairs  
and renovation  
of  
Old Car parts

## Additional services

### ➤ *Hydrogen de-embrittlement treatment*



We have many years experience in hydrogen de-embrittlement treatment :

- ✓ integrated to our process;
- ✓ low influence of human factory;
- ✓ special boxes for loading parts;
- ✓ archive functions;
- ✓ temperature control with OMRON temperature controller E5CC.

## Additional services

### ➤ *Automated welding*



We have many years experience in welding. Now we have new full automatic welding robot for:

- ✓ automatic MIG/MAG welding;
- ✓ automatic TIG welding.

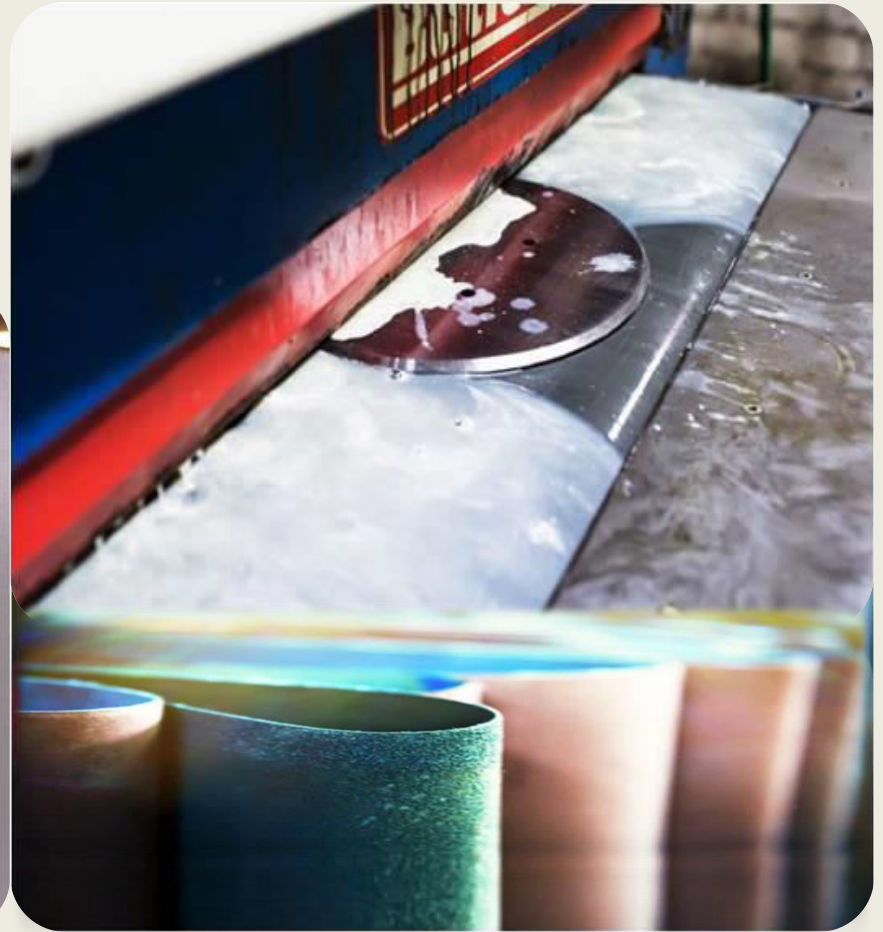


# GALVANTA

Your plating experts

## Additional services

➤ *Grinding, polishing*



## Additional services

➤ *Grinding, polishing*



Our polished parts will match to each of the clients expectations.

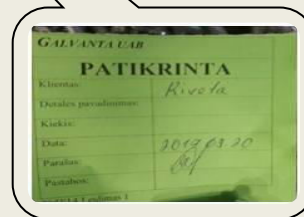
We can offer several finish levels from primary up to “mirror” effects.

## Additional services

### ➤ *Assembling, labeling ...*

✓ Packages have the shipment label for received orders and “DONE” order labels.

✓ Green label for “DONE” orders, which represents the checked output of the controller.





## Additional services

### ➤ *Packing & logistics...*



- ✓ We pick up orders at the agreed time and place;
- ✓ after plating we pack the products according to Client's request;
- ✓ and deliver it to the designated address.

## Quality Management

### ➤ Certificates



Galvanta is working according to the standards:

- LST EN ISO 9001:2015
- LST EN ISO 14001:2015.

# Quality Management

## ➤ *Certificates*



- To next step Galvanta is planning to start the certification process to the international Management system standard IATF 16949:2016
- Our technologies is new generation, free from Cr6+ compounds and meets the requirements of RoHS directive.

## Quality Management

### ➤ *Automatic production lines*



Our company have full automatic production lines with elastic programs (line parameters: sequence of processes, temperature, dosing, pH, time).



## Quality Management

### ➤ *Automatic production lines*



All dosing on the lines are automatic.

## Quality Management

### ➤ *Laboratory*

- ✓ The own laboratory to check and control our processes;
- ✓ Good cooperation to control our processes with our German suppliers.



## Quality Management

### ➤ *Laboratory*

Tank parameters monitoring is provided in-house in our own laboratory.

And for double-checking we also make external analysis of parameters with our German suppliers and receive their reports.

**Schöttler**  
Dr.-Ing. Max Schöttler  
Dipl.-Ing. G. W. W. W.  
77535 Oettingen/Ob.  
Tel: +49 (0) 770 222 24  
Fax: +49 (0) 770 222 22

To: Galvanta Ltd  
Duma p. 3  
Attn: Mr. Dinkov  
11719 Vršak / Croatia

Client no.: SC-PL-13  
Fax no.: 10th

**Bath Examination Report**  
Examination no.: 319611  
Examined by: Dr. W. W. W. W.  
Examined on: 03.11.2016  
Revised on: 03.11.2016

Electrolyte: Bath 16  
BATH: 08081  
Description: Bath 16  
Volume: 130L

Analysis results: Link to file  
Zinc: 1000 mg/L  
Sodium Cyanide: 1000 mg/L

Notes: The above-mentioned figures from our own data sheet refer to the operating reserves stated in our operating data sheet.  
Filling level: (Operation as instructed)  
Right and deposit over the whole current density area.  
Burning zone: 10 min.

Correction per 100 L Bath (See chapter comments)  
0.1

Comments:

The above-mentioned analysis results and correction recommendations refer to the time of sampling and have to be checked under consideration of the changed bath condition or the corrective measures already performed by the client.  
➤➤ Dispatch of bath samples only in UN approved analysis bottles !! <<

**ATOTECH**  
Atotech Deutschland GmbH  
Cibara Analytica  
Post Box 27 07 85 | 10667 Berlin  
Eberhardstraße 20 | 10555 Berlin  
Tel: +49 (0)30 548 86 375  
Fax: +49 (0)30 548 86 875  
Email: analytica.berlin@atotech.com  
www.atotech.com

LAB: Galvanta  
LAB Address: Charnata  
LITAUEN  
Customer No: 900063

Report: 10/2016 10/2016  
Sample name: 2016 10/2016 RDC  
Request: 110-020487-2016-01  
VWL Element: 10000228071  
Sample: 10248162

Test Report

Characteristics	Method	Result	Unit	Limits
*Zn (20)	IT	32.8	g/l	10-300 ± 30.0
*Zn (20)	AA	7.4	mg/L	
*VANKI AIZ 871 8X COND.	IC	8.1	mg/L	
*VANKI AIZ 871 8X COND.	IC	14.8	mg/L	
*VCL - Vanki	100	1.8	g/l	

Kathleen SCHWARZ (Team Manager Cibara Analytica) at 06.11.2016

Printed by: Kathleen SCHWARZ  
Printed at: 06.11.2016  
Page 2 of 10

- The sampling is carried out by the customer.
- The test results refer only to the test object.
- The test report is an annex electronically and is valid without signature.
- Qualification only with approval in writing.
- The samples are kept for four weeks after Usage Decision.
- The methods named with (\*) are accredited.

**DAKKS**  
Accredited organization  
D-PL-145643-00

Disclaimer: The test result contained in this test report refers only to the samples as received. Changes are made by the customer, and the original characteristics of the samples are not guaranteed. The test results are not valid for the samples as received. The customer is responsible for the quality of the samples. The test results are not valid for the samples as received. The customer is responsible for the quality of the samples. The test results are not valid for the samples as received. The customer is responsible for the quality of the samples.

# Quality Management

## ➤ *Control equipment*



- ✓ The plating thickness is measure and control by the **X-Ray**.
- ✓ For our clients we can propose free **NSS** salt spray tests for new projects.



## Quality Management

### ➤ *Control equipment*



✓ **Glossmeter** - the ability to measure almost any surface finish at different measurement angles.



✓ **Roughness tester** that evaluate surface roughness waveforms, parameters of Ra, Rz.

## Quality Management

### ➤ Shift reports

**GALVANTA UAB**

**PAMAINOS UŽDUOTYS**  
2017 m. *20* mėn. *20* d.

Linijos Nr. 52

Pamainos Nr. darbuotojų pavardė	Firmos pavadinimas	Užsakymo Nr.	Detalis	Padengimas, spalva	Pastabos
<i>Y. Dulava</i>		<i>120819-1</i>	<i>10mm</i>	<i>Sp. (balta)</i>	<i>20</i>
		<i>n-114 → 118</i>		<i>Sp. (balta)</i>	<i>20</i>
		<i>n-937</i>	<i>8-10mm</i>	<i>Sp. (balta)</i>	<i>20</i>
		<i>143</i>		<i>Sp. (balta)</i>	<i>20</i>
		<i>n-N</i>	<i>9mm</i>	<i>Sp. (balta)</i>	<i>20</i>

*reikšmės:*  
1. *Sp. (balta) n. 100 Sp. (balta)*  
2. *El. (balta) nusidėvėję n. 1*  
3. *Sp. (balta) n. 100 Sp. (balta)*

Pastabos:

Baro vadybininkė: *Margarita Treninaitė*

Gamybinių režimų kontrolė:

Vosnia Nr.	9	13	20	25	26	30-31	34	41-42	43-44	45
t°C	35-40	18-22	18-22	55-65	55-65	18-40	55-65	18-24	18-24	18-24
	<i>35,0</i>	<i>41</i>	<i>41</i>	<i>57,8</i>	<i>57,8</i>	<i>38,4</i>	<i>61,4</i>	<i>62,4</i>	<i>22,4</i>	<i>22,4</i>
filtrai	<i>20</i>	<i>20</i>	<i>20</i>	<i>20</i>	<i>20</i>	<i>20</i>	<i>20</i>	<i>20</i>	<i>20</i>	<i>20</i>
aparatoriai										
režimai										
oras										
valymas										
atšilimas, t°C	<i>63,1</i>									

**PAMAINOS ATASKAITA 2017m. *18* mėn. *18***

Apimtys	Įmonės pavadinimas	Užsakymo Nr.	Ne Atskaita	Pavadinimas spalva	Apkrovimas, vnt.	Stovai, μm	Pastabos: brekas/ jo priežastys
1.		<i>114</i>		<i>balta</i>	<i>30</i>		
2.		<i>114</i>		<i>balta</i>	<i>30</i>		
3.		<i>937</i>		<i>balta</i>	<i>280</i>		
4.		<i>63</i>		<i>balta</i>	<i>60</i>		
5.		<i>63</i>		<i>balta</i>	<i>60</i>		
6.		<i>937</i>		<i>balta</i>	<i>2</i>		
7.		<i>11</i>		<i>balta</i>	<i>220</i>	<i>143, 161, 190</i>	
8.		<i>63</i>		<i>balta</i>	<i>80</i>		

POSF02 Leidimas 2.

✓ shift reports fill with the tasks to every employee and their report on the work done.

✓ For the FIFO principle fill:

- Company's name;
- Client order Nr.(each order receives it);
- Part Nr.

# Quality Management

## ➤ IMDS

MATERIAL DATA SYSTEM

MDS ID / Version: 83618873 / 1 Page: 1 / 3  
 User: Dorothea Koenig, Telfers Date: 05/19 10:30:12 AM

### MDS Report

**Substances of assemblies and materials**

This report is for Internal Automotive industry use only. Distribution to non-Automotive clients is a violation of the Terms of Use, and is not permitted unless a written permission was given by DKG Technology. Parating is not allowed.

#### 1. Company and Product Name

##### 1.1 Supplier Data

Name (EO): Galvanta UAB (19990)  
 DUNS Number: -  
 Street/Postal Code: Dainis 3  
 Naz/City/Country: L1, L1-1119 Vilnius  
 Supplier Code: -  
 Contact Person: Telfers Dorothea Koenig  
 Phone: -  
 Fax No.: -  
 E-Mail Address: request@galvanta.eu

##### 1.2 Product Identification

Part/Item No.: H048-858-10  
 Description: Zofc coating  
 Report No.: -  
 Date of Report: -  
 Purchase Order No.: -  
 Bill of Delivery No.: -  
 Preliminary MDS: No  
 MDS ID / Version: 83618873 / 1  
 MDS Status (Change Date): Internality released (05/20/2010)

-Deckblatt: Blatt 1 von

Hersteller: UAB "Galvanta"  
 Dorothea Koenig  
 Name: UAB "XXXXX"

**Entwicklungsprozess**

Erstmasterprüfbericht VDA  
 Endmasterprüfung  
 Nachbestimmung  
 Neuzeit  
 Produktionsveränderung  
 Änderung von Produktionsverfahren  
 geringere Auslastung der Fertigung  
 neuer Unterlieferant  
 Produkt mit DmBA  
 Fertigungs-Prototypen erstellt  
 FMEA durchgeführt  
 Prüfbericht einseitige Master

**Lebenszyklus**

01 Funktionsprüfung  07 Prüfbefähigkeitsnachweis  10 Ercheinungsgebiet  
 02 Maßprüfung  08 Prüfbefähigkeit  14 Zertheile  
 03 Instandhaltung  09 EG-Dauerzustandstabilität  16 Korrosionsanfrage  
 04 Zuverlässigkeitsprüfung  10 Health  18 Instandsetze in Zukunft  
 05 Prozessfähigkeitsnachweis  11 Anlauf  17 Sonstiges  18 Oberflächenbeschichtung  
 06 Prozessablaufplan  12 Demuth

Materialnummer, Lieferant	Professions-Nr.	Version 1	Kundennummer, Kunde	Professions-Nr.	Version
Materialnummer: XXXXXX	Professions-Nr.: XXXXXX	Version 1: XXXXXX	Kundennummer: XXXXXX	Professions-Nr.: XXXXXX	Version: XXXXXX
Zeichnungsnummer: XXXXXX	Zeichnungsnummer: XXXXXX	Standdatum: 2007-08-01	Zeichnungsnummer: XXXXXX	Standdatum: XXXXXX	Standdatum: XXXXXX
Benennung: XXXXXX	Benennung: XXXXXX	Spezialanfertigung: 2015-10-10	Benennung: XXXXXX	Benennung: XXXXXX	Benennung: XXXXXX
Leistung: 10 Stk.	Chargennummer: XXXXX	Materialnummer: XXXXXX	Wartungsanfrage-Nr./datum	Wartungsanfrage-Nr./datum	Wartungsanfrage-Nr./datum

**Bewertung Lieferant:**  
 Legt sich bestätigt, dass die Bemerkungen entsprechend der VDA Schritt 2 Ziffer 4 durchgeführt werden sind.

Name: Ramundas Dinklas  
 Abteilung: 3701850974  
 Telefon: 0526202033  
 E-Mail: -  
 Datum: 2010-05-05 09:00  
 Unterschrift: \_\_\_\_\_

**Bemerkung:**  
 Bemerkung wegen Einzel neuer Clientkäufer für  
 - Anfertigung "Oberflächenbeschichtung"

**Entscheidung Kunde**

Entscheidung	Kunde	gemäß	gemäß Anlage
Be	01	02	03
Be mit Auflagen	04	05	06
abgelehnt, Nachbestimmung erforderlich	07	08	09
Abweich. Genehmigung Nr.:	10	11	12
Bei Rückmeldung Lieferchein-Nr./-datum:	13	14	15
Name:	16	17	18
Abteilung:	19	20	21
Telefon / Fax / E-Mail:	22	23	24
Datum:	25	26	27
Unterschrift:	28	29	30

Drucker: \_\_\_\_\_ Datum: 2010.01.12

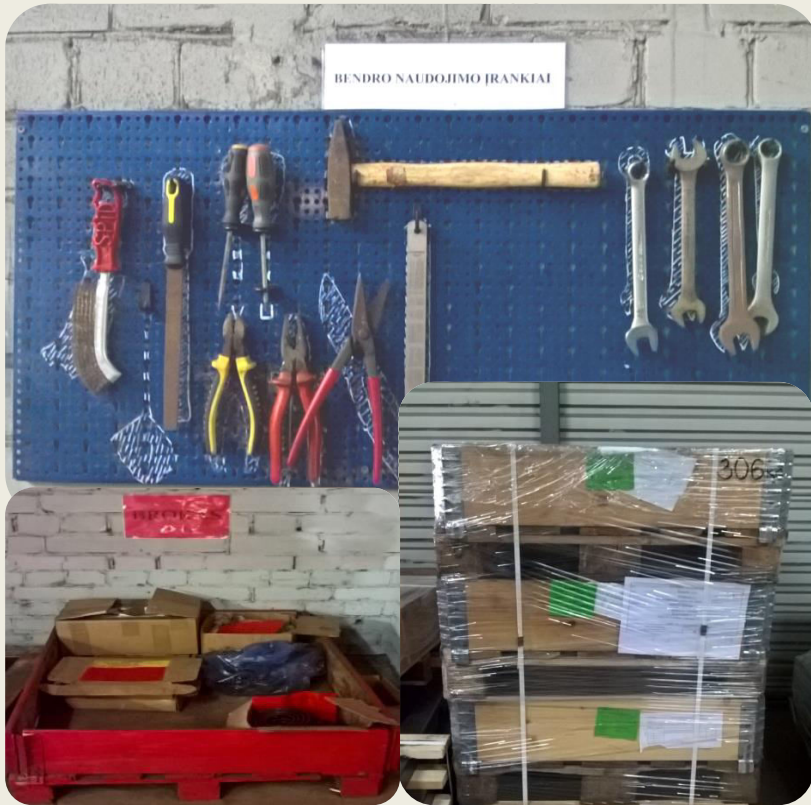
- ✓ We are the member of The IMDS (International Material Data System) community.
- ✓ documentation preparation: PPAP, EMPB, MDS reports.

Green label for “DONE” orders, which represents the checked output of the controller.





## Quality Management



- ✓ Our work processes are constantly being improved.
- ✓ We are currently using elements of the LEAN system.

# ERP System

The start of the implementation of **MONITOR**.



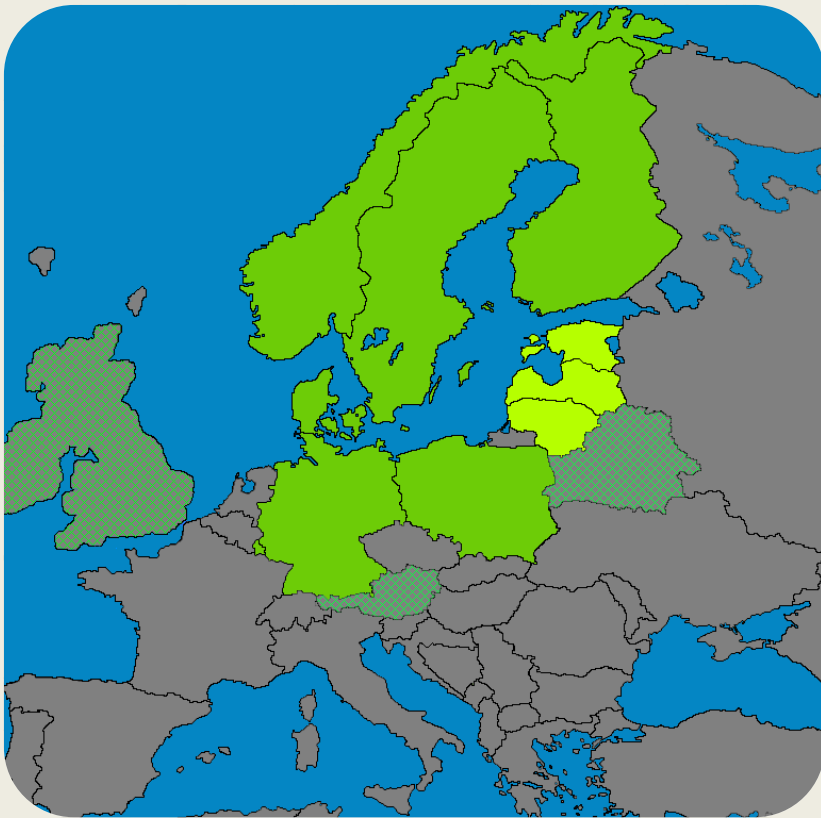
- ✓ MONITOR - to - MONITOR save your time and protect from mistakes.
- ✓ The faster and better communication between companies.
- ✓ The documents in XML files can register directly in your system.

## International experience



- ✓ Galvanta is founder and active member of Baltic Automotive Components Cluster BACC;
- ✓ With our partners we produce parts for Mercedes, BMW, Audi, Volkswagen, Volvo, Scania

# International experience



We export our services to Latvia, Estonia, Poland, Germany, Denmark, Sweden, Finland, and Norway.



# GALVANTA

Your plating experts



We are convinced that  
our cooperation could be  
productive  
and could bring  
considerable reciprocal  
benefits.

## Thank you!

[www.Galvanta.eu](http://www.Galvanta.eu)