



## Customer Specific Requirements

---

**Transfer the Customer Specific Requirements to suppliers – VDA,  
Mercedes**

CSR Rev. 001

## **AGENDA:**

1. Scope
2. Targets
3. Requalification / Resampling
4. Certificates of conformity
5. Quality Planning and Assurance
6. Knowledge of basic manuals
7. Documentation archiving
8. Self-assessment
9. PSB / PSCR
10. Second-part audits
11. Part history
12. MSA
13. SPC
14. Parts Review, Containments and Problem Solving
15. Warranty Period for field parts
16. Retention Period for warranty parts
17. Others

## 1. Scope

This Customer Specific Requirements Document (CSR) is an integral part of Corporate Supplier Manual (CSM) and aims - defines to transfer the specific and special requirements of the final customer (OEM) and Huf.

This document contains the most restrictive requirements that have to be fulfilled by the Huf suppliers and does not replace any of the OEM's requirements. The latest and most valid versions of CSR's are available on IATF website and/or on the OEM's website:

<https://www.iatfglobaloversight.org/oem-requirements/customer-specific-requirements/>

The supplier is obliged to sign this document.

## 2. Targets

Targets for suppliers (PPM, Logistic Performance, 8D evaluation) are set for all components (material groups) in the Huf Supplier Portal, available on [www.huf-group.com](http://www.huf-group.com) website and update annually.

## 3. Qualification / Resampling

Requalification of materials, components must be performed once per 12 months. To ensure quality, Supplier must carry out a regular requalification of its scope of supply in accordance VDA publication "Robust Production Processes" (section 5.3.4). The supplier evaluates documents and archives the results. These must be made available to Huf on request. Any deviation from this paragraph must be agreed in writing between the supplier and Huf.

## 4. Certificates of conformity

Supplier shall send the CoC (also named as CQC, CoA) for materials, components as a part of the PPAP submission and each time on demand of the Huf company.

## 5. Quality Planning and Assurance

The supplier proves the faultless product realization.

## 6. Knowledge of basic VDA

The supplier confirms that he is familiar with the requirements of the following VDA documents and meets these requirements.

- VDA 1 Documented Information and Retention
- VDA 2 Securing the Quality of Supplies
- VDA 4
- VDA 5 Capacity of Measurement Processes
- VDA 6.3 Process Audit

- VDA 6.5 Product Audit
- VDA Volume Maturity Level Assurance
- VDA Volume Product Integrity
- VDA Volume Robust Production Process
- VDA Volume AIAG VDA FMEA Handbook
- VDA Volume Automotive SPICE Guidelines
- VDA Volume Field Failure Analysis & Audit Standard

## **7. Documentation and archiving**

All Quality Records are retained by the Supplier over the life of the product (including spare parts) + 15 years so that they are readily available at Huf request – acc. to VDA 1.

## **8. Self-assessment**

The contractor must perform a self-audit on the basis of VDA 6.3 & VDA 6.5 and send the result to Huf Group at least once every 12 months in the form of a complete audit report.

## **9. PSB / PSCR**

The supplier shall comply with and implement the requirements of the VDA Volume Produktintegrität (Product Integrity). However, it is left to the Partner to decide, if the Partner implements a Product Safety and Conformity Representative (PSCR) or not.

## **10. Second-part audits**

The supplier agrees that Huf Group (or appointed representative) may carry out a process audit in the supplier's plant on the basis of VDA 6.3.

## **11. Part history (Teilelebenslauf)**

Supplier is obliged to inform Huf about any changes in the process chain (place of production, product change, process change or supplier change) as required by VDA 2 using „Part History” form. All parts (or label on the boxes) have to be marked with latest part status labels and shipped with valid measurement reports according to last revision of the drawing.

## **12. MSA**

The capability of the measurement process, steady measured values, shall be proved on the basis of a variance analysis (ANOVA) in accordance with VDA Volume 5 with measurement uncertainty budgets. Calibrated measuring equipment and reference standards shall be used for the studies so that the proof is comparable and traceable.

A smaller number than 25 repeat measurements is permitted in justified exceptions, e.g. if a measurement takes an extremely long time, or because of economic reasons. However, the lowest possible number is 5.

In case the sample size is less than 25, sg shall be corrected with the correction factor kF to sgk, see formula:

$$kF = (4 \times n - 3) / (4 \times n - 4) \times 1,01$$

and Table:

n	kF
5	1,0520
10	1,0176
15	1,0078
20	1,0031

### 13. SPC

#### Machine Capability Study (MCS)

$$C_m \geq 1.67; C_{mk} \geq 1.67$$

Sample size shall be 50. Parts manufactured in direct sequence shall be removed from the machine. The prerequisite is that production of these parts shall be under series conditions.

In justified exceptions, for example short run production, a smaller sample size is possible but shall be documented (evaluation is impractical with fewer than 20 parts). If the sample size is less than 50, the requirement applies with reference to the lower confidence limit (confidence interval 95 %, table by analogy with VDI/VDE 2645 BL2, has to be applied only for Cmk):

n	C <sub>mk</sub> ≥
20	1,93
25	1,85
30	1,79
35	1,75
40	1,72
45	1,69
50	1,67

#### Provisional process capability study (Pp)

$$P_p \geq 1,67; P_{pk} \geq 1,67$$

Sample size shall be 50 in this case too. The parts shall be removed at regular intervals from the produced batch. In justified exceptions, for example short run production, a smaller sample size is possible but shall be documented. Statistical evaluation is impractical with fewer than 20 parts.

### Process capability studies (PCS)

Process capability studies, also known as **long term capability studies**, establish the long term quality capability of the entire process. Compared to machine capability studies, long term influences and disruptions are taken into account. A process capability study is the prerequisite for process monitoring/steering, particularly with control charts or statistical process control (SPC).

A process capability study is conducted for the first time when a new process is introduced. The process capability study has to be repeated at least when, for example, a relocation or a serious change in the production process has taken place. Information indicating which changes necessitate this is set out in the production-process and product-release process, see VDA Volume 2.

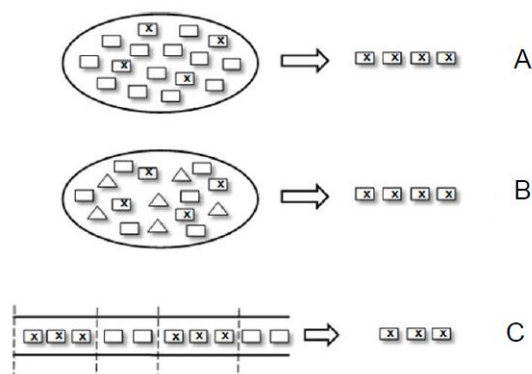
$$C_p \geq 1,33; \quad C_{pk} \geq 1,33$$

Process capability shall be verified no later than three months after the start of standard production.

The measured data of the machine capability study cannot also be incorporated into the process capability study, because long term influences are not taken into account in the machine capability study.

The total size of the sample is defined as 125, individual samples to be taken uniformly from production over a period of 10 to 20 weeks, or over 4 weeks at least. Ensure that the process proceeds under series conditions when sampling is in progress and is not disrupted or changed. An intervention is permissible only between samples and shall be documented.

If parts are removed only in samples, the possibilities include the following:



Legend:

- A random sample
- B random sample from subgroups
- C cyclic removal from process in progress

The single samples shall be from one batch, or one lot, and shall be taken one after the other. The total number of random samples is  $25 \times 5 = 125$ .

In justified exceptions, for example short run production, a smaller sample size is possible but shall be documented (at least  $n \geq 20$ ).

n	C <sub>pk</sub> ≥
20	1,67
25	1,59
30	1,54
40	1,48
50	1,44
60	1,41
70	1,39
80	1,37
100	1,35
125	1,33

### Special case 100 % sorting check

If process capability is not possible because tolerances are too tight, a 100 % sorting check is carried out (e.g. bearing shell to crank pin). In this case the calculated process capability is not decisive. It is only the process description.

## 14. Parts Review, Containments, Problem Solving and Time frame

Upon receipt of a claim, Suppliers shall respond within the specified limits and requirements as set forth below:

Reporting Tool – 8D:

- Supplier will undertake to respond each complaint in the form of a valid 8D Report compliant with the VDA guideline, which is an official communication tool for reporting and resolving problems.

Required Response:

- Following is required to be completed as a part of the 8D process.
  - Is / is not analysis for the problem description
  - 5 Why and Ishikawa for the technical and systemic root causes of Occurrence and non-detection.
  - Definition of corrective actions for Technical and Systemic Root Causes for Occurrence and Non Detection
- Huf is able to request further information / documentation in case of further customer requests.

**Time frame for feedback:****0-Km claims:**

- An initial response to a critical problem (essentially the containment action/8D report: Steps 1 to 3 – 3D) is required within 48 hours of receipt from Huf
- 8D final response is required within 10 working days of receipt from Huf

**Field claim:**

- **Priority parts:**
  - Within two (2) calendar days after receiving the parts an interim status with its initial test findings and measures that can be implemented immediately.
  - No later than seven (7) calendar days after receiving the parts its conclusive findings.
- **Non priority parts:**
  - Within seven (7) calendar days after receiving the parts an interim status with its initial test findings and measures that can be implemented immediately.
  - No later than seventeen (17) calendar days after receiving the parts its conclusive findings.

If Suppliers fails to respond within Huf required time frame, Supplier will be deemed to have accepted the warranty claim and all warranty costs received from OEM and all other costs and expenses of Huf will be the sole responsibility of the Supplier. In case when more time will be needed to determine the cause of the problem, the supplier may ask for a deviation and we will individually set the time needed to close the complaint.

**15. Warranty Period for field parts**

In case of non-conforming goods caused through a problem by the supplier the warranty period will apply as follow:

- For parts used for vehicles in USA, Canada and Puerto Rico the warranty period expires 48 months after registration of the vehicle or implementation date of a spare part, latest 54 months after production date Huf.
- For parts used for other countries the warranty period expires 33 months after registration of the vehicle or implementation date of a spare part, latest 36 months after production date Huf.

## 16. Retention Period for warranty parts

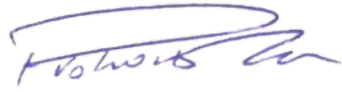
The Supplier shall keep all accepted parts for a period of 10 weeks from issue notification date, not accepted parts shall be returned within 5 days after closing the claim finally.

## 17. Others

If Huf request the supplier to use certain advanced quality planning instruments (e.g., forms, programs or systems) / advanced standards not mentioned in this document, the supplier has to use them if requested to do so by Huf.

.....  
Supplier Quality Development

Supplier signature and date  
Quality Manager

CREATED	CHECKED	APPROVED
Ciprian Demeter (PS-SA)	Grzegorz Piotrowski (PS-PP)	Joern Geisel (PS-SA)
		
Signature	Signature	Signature

HISTORY			
REVISION	REASON	BY	DATE
001	Released	Ciprian Demeter	26.02.2026
Document review once per 12 months or in case of any changes/updates in Customer Specific Requirements			