

**Food**

## Fruit experts rely on a daily routine check for optimal quality assurance

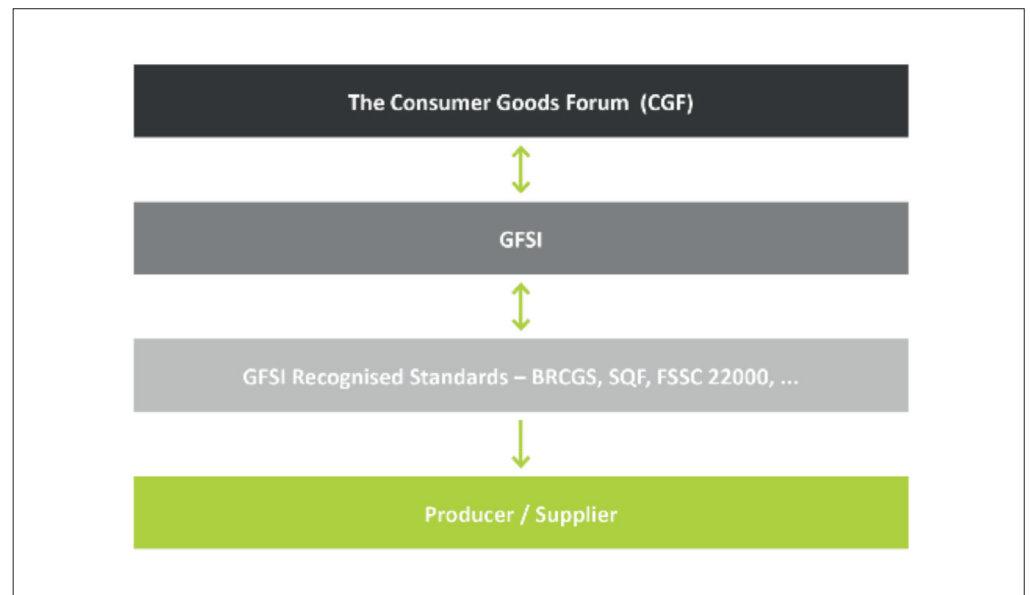
**Service**  
**Manufacturer Validation**

One of the leading manufacturers of fruit preparations in Germany, has leveraged its vast experience, creativity and flexibility for over 50 years to produce semi-finished and finished products for the ice cream, baking, dairy, beverage and chocolate industries. These products are sold through food retailers and also to the food service industry. The company's business units are divided into fruit preparations/purees, fruit in alcohol and fresh convenience products such as fruit salads.

Driven by inventiveness, innovation, experience and state-of-the-art production processes, the quality of these first-class products is underscored by numerous renowned certifications such as IFS Food and BIO.

### The problem: Complying with food safety laws and regulations.

Naturally, coping with limited resources requires sustainable management and technological innovations. Global competition and stricter regulations, moreover, further increase the pressure to constantly innovate technologically in order to boost productivity and profitability. Laws and regulations, meanwhile, require the use of inspection equipment in food production. Continuously complying with these regulations often creates major challenges for customers, such as dealing with the technology itself, a lack of knowledge about its correct handling and managing standards that vary from country to country.



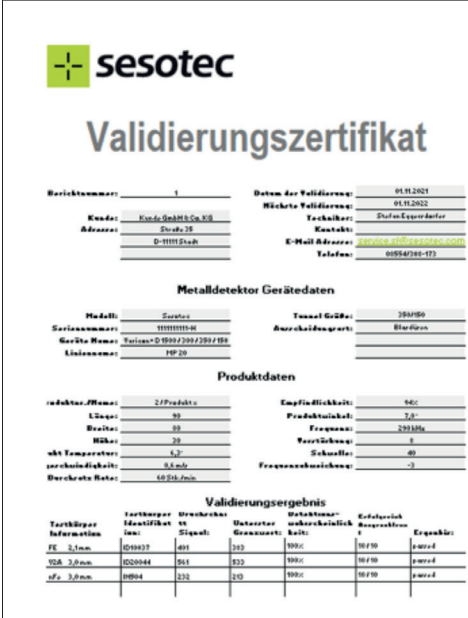
Many customers face the problem of lacking the knowledge of which setting parameters can cause a significant change in product safety and process relevance. A validation process can aid these customers to overcome this challenge and take a successful path towards compliance with food safety standards. Such as process can also be used as a service.

### The solution: manufacturer validation with validation certificate.

Validation takes place at the beginning of the life cycle of a product inspection system – that is, after initial installation but before release for commercial production. It represents an initial qualification of a device based on the specified functional descriptions. Validation provides evidence that the selected device, when used correctly, is capable of meeting the specified targets in all cases. Such specifications may relate to detection accuracy, but also to other functions such as the correct operation of the ejection device.

According to International Featured Standards (IFS), validation is the confirmation, based on objective evidence, that requirements for the specific intended use or application are being met. The Codex Alimentarius Commission, meanwhile, defines validation as the provision of evidence that a control measure, or a combination of control measures, when properly implemented, can achieve both hazard control and specified result.

Manufacturer validation is conducted by a service engineer at the end customer's premises. While it may take place at the same time as the commissioning of the equipment, during maintenance or at a special validation appointment, on-site manufacturer validation is targeted to be carried out after commissioning. It takes place when the equipment is already running stably, and specifically addresses the needs and requirements of the customer.



**Validierungszertifikat**

Geräteart: 1      Datum der Validierung: 01.11.2021  
 Name: Kund: GEMH Co. Ltd      Nächste Validierung: 01.11.2022  
 Adresse: D-11111Stuh      Techniker: Stefan Engelhardt  
 D-11111Stuh      E-Mail Adresse: [service@sesotec.com](mailto:service@sesotec.com)  
 Telefon: 005547100-173

**Metalldetektor Gerätedaten**

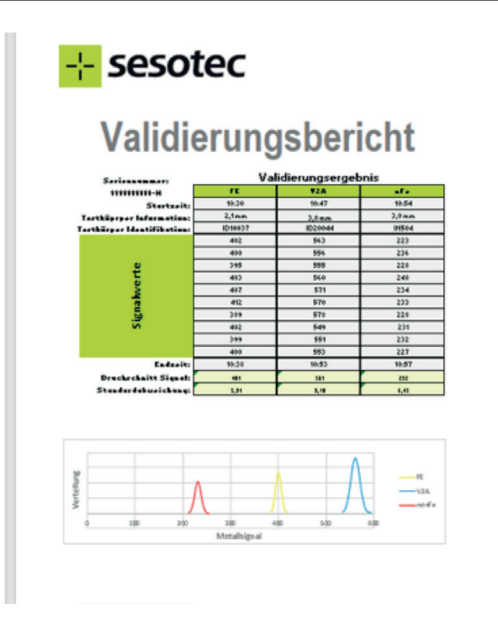
Modell: Siresta      Tonnal Größe: 200/100  
 Seriennummer: 11111111111111111111      Ausschlagwert: 0,100mm  
 Geräte Name: Serien=D 1002/200/250/100  
 Linienname: MP 20

**Produktdaten**

Produkt / Name: Z / Produkt      Empfindlichkeit: 600  
 Länge: 90      Produktlabel: 7,0  
 Breite: 50      Frequenz: 200 kHz  
 Höhe: 30      Kerndicke: 8  
 akt. Temperatur: 6,2      Schmelze: 40  
 percholektivität: 0,6 m/s      Frequenzabweichung: -3  
 Durchsatz Rate: 60 Stk./min

**Validierungsergebnis**

Farthölper Information	Farthölper Identifikat	Durchschl. Wert	Durchschl. Grenzwert	Datentema- überprüfbar	Erfolgreich ausgeführt	Ergebnis
FE 2,0mm	0200037	401	310	100%	10/10	pass
VDA 3,0mm	0200044	561	530	100%	10/10	pass
VF 3,0mm	02004	331	210	100%	10/10	pass

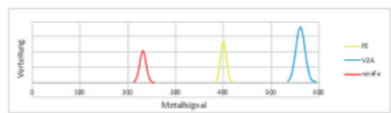


**Validierungsbericht**

Seriennummer: 11111111111111111111

Validierungsergebnis	FE	VDA	VF
Startzeit:	10:26	10:47	10:54
Farthölper Information:	2,0mm	3,0mm	3,0mm
Farthölper Identifikat:	0200037	0200044	02004
Signalwerte	401	563	331
	400	556	326
	395	559	323
	403	560	329
	407	571	334
	412	579	339
	418	576	331
	402	569	325
	399	551	312
	409	553	327
Ergebnis:	10/10	10/10	10/10
Durchschl. Status:	OK	OK	OK
Standardabweichung:	5,21	5,18	4,15

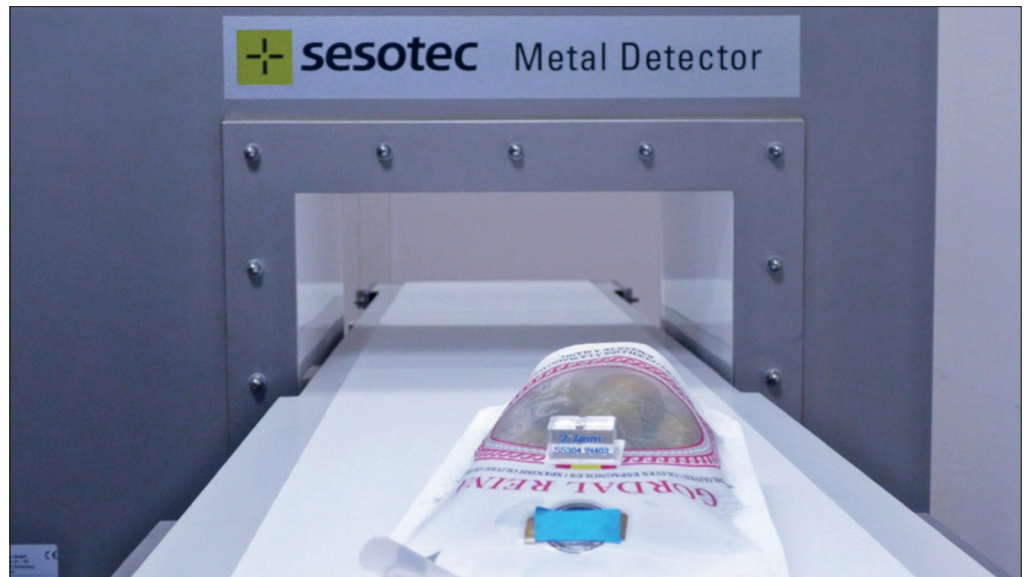
Verteilung



Abstandsignal

The validation certificate issued is unique, because it provides proof of normal distribution and another threshold or checkpoint for daily routine testing. It also serves as proof for the customer of annual maintenance and supports the daily routine tests.

**The customer benefit: Repeatable performance of body testing with evaluation and documentation.**



Typically, re-validation must be performed when significant changes are made to a metal detector. However, re-validation can be avoided if, after validation, when a test body is placed on the ground the value no longer falls below the lower limit value. For instance, there would be no need for re-validation if the product angle, the conveyor speed or the sensitivity are changed and it turns out that the specified detection range is maintained. The upper range can be neglected, as a higher detection of the test bodies is advantageous. If a validation certificate is available, re-validations are not necessary.

The bottom line is that validation helps to avoid food waste, conserve resource and increase productivity and thus profitability.

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**Sesotec - an overview**

The Sesotec group is one of the leading manufacturers of machines and systems for contaminant detection and material sorting. Product sales primarily focus on the food, plastics, and recycling industries.



**Metal detection systems**



**X-ray inspection systems**



**Sorting systems**



**Magnet systems**