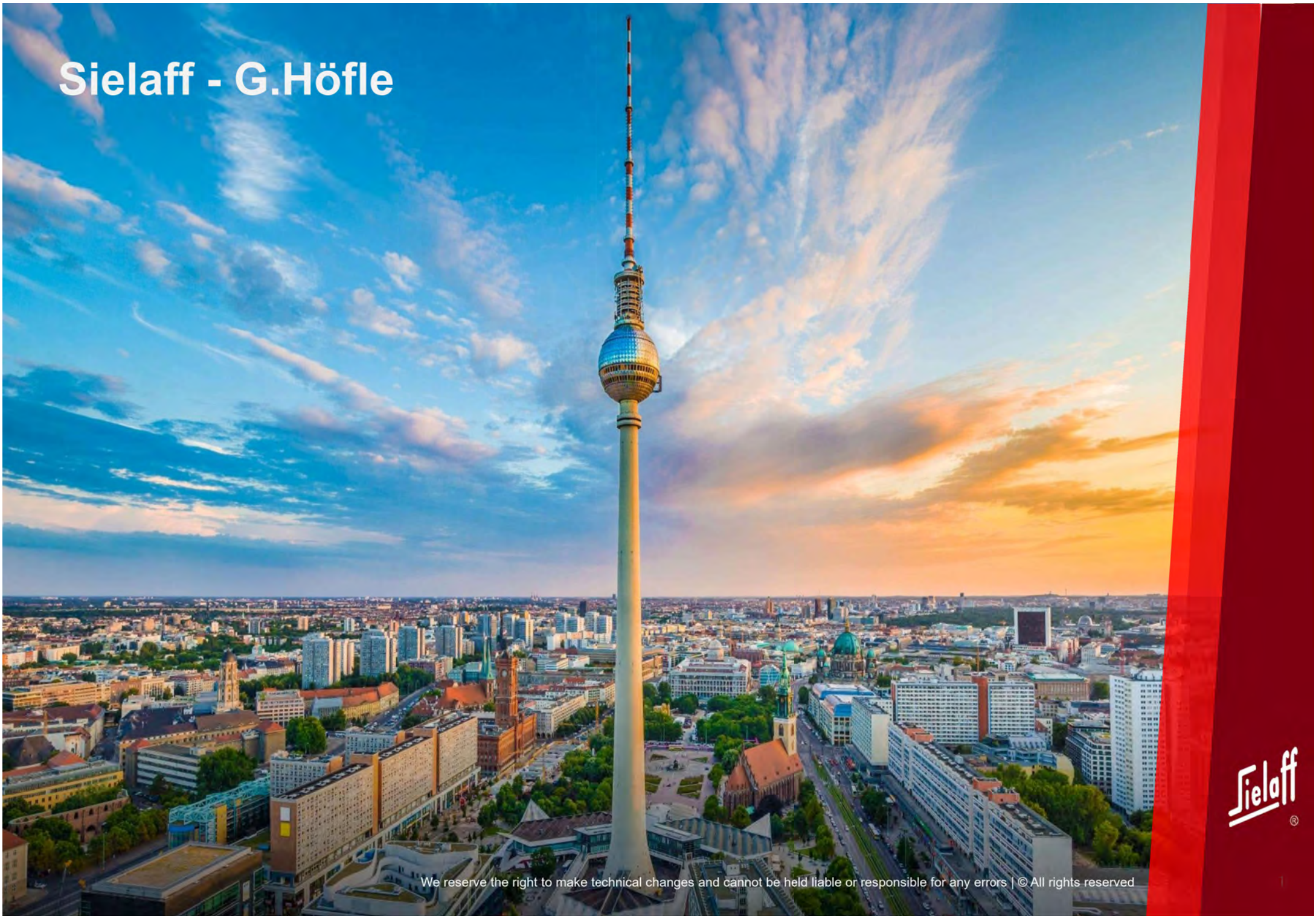


Sielaff - G.Höfle



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G. Höfle



- Fundada em 1954
- Referência nacional no fornecimento, instalação e assistência técnica a soluções para gestão de resíduos
- Mais de 5.000 equipamentos instalados nos nossos clientes
- Representa fabricantes europeus de reconhecido prestígio internacional

BRAMIDAN

**MACPRESSE
EUROPA**

FOR REC
RECYCLING SYSTEMS

MAVITEC
Green Energy

HSM

PÖTTINGER
Entsorgungstechnik

PRESTO
for your pressing issues

The Waste Transformers

PARINI
TECNOLOGIA PER L'AMBIENTE

HEGER

MTB

ankerandersen
High performance counting
and sorting systems

Sielaff

GAIA

Sielaff

Sielaff – it all began with a patent

For over 130 years Sielaff has combined the highest level of engineering expertise with modern lifestyle.

1886 Max Sielaff founded the company in Berlin.

1887 Patent awarded for automatic vending equipment.

1905 Over 30,000 vending machines operate under the Sielaff patent.

1949 Company relocates to Herrieden.

1954 **The first cigarette vending machines** are Developed.

1967 **First hot drinks vending machines.** 1976 the first bottle reverse vending machine became part of the Sielaff machine portfolio.

2002 **First floor-standing hot drinks machine** followed by a tabletop version.

2004 The ISA GmbH & Co. KG subsidiary was founded in Ilmenau, ISA GmbH & Co. KG, is now the Sielaff Software & Service GmbH & Co. KG.

2006 **The first reverse vending machine was manufactured.** This was shortly followed by Baristo Uno and Piacere coffee machines - both breakthroughs in design and technology.

2015 Market launch of the next generation of vending machines - the SiLine range. The SiVario and SiCompact complete the reverse vending system range.

2016 **The SiVario Next with rotation-free 360°-recognition** and new background processing - pioneering development.

2021 In the reverse vending sector the SiVario 2020 and SiCompact 2020-Series with groundbreaking technology are showcased.

The Sielaff logo is located in the bottom right corner of the page. It features the word "Sielaff" in a white, stylized, sans-serif font with a registered trademark symbol (®) to its right. The logo is set against a dark red background that is part of a vertical decorative bar on the right side of the page.

Production and Quality “Made in Germany“

Sielaff's promise of quality



Sielaff places great emphasis on high level added value

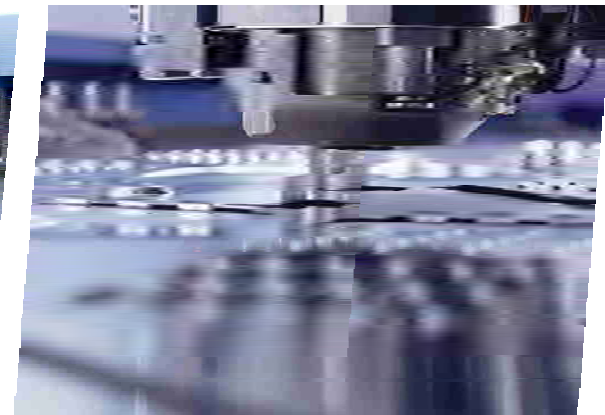
The design, development, manufacture and assembly of our machines comes from “**A single source**“.

ISO-certification guarantees the strictest quality control of every production process and ensures consistent quality assurance.



Latest production techniques

The company uses the most up-to-date manufacturing technology. Regular investment in development and manufacturing guarantees competitive production from our German site.



Certificate

Standard **ISO 9001:2015**

Certificate Registr. No. **01 100 0100219**

Certificate holder



Sielaff GmbH & Co. KG
Automatenbau
Münchener Str. 20
91567 Herrieden
Germany

Including the locations' ac

Sielaff[®]

Sielaff national and international

Always close by



Single source supply

Sielaff will accompany you throughout your journey. Beginning with your enquiry, realisation of your project, specialist servicing and maintenance.



Subsidiaries

Our subsidiaries and partners on-site are available to assist you with any queries you may have.



Sielaff[®]

Reverse Vending Portfolio

Future-proof reverse vending systems - individually planned and customised



SiCompact Eco



SiCompact



SiCompact XL



SiVario 2020



Outstanding Service

The duty for our customers - Service and Support locally!



Own telemetry and diagnostics centre.



Experienced, hands-on hotline colleagues



Supply network and customer service network.



Direct product line adjustment, software-settings, pro-active system monitoring as well as data adaptation remotely.



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SiVario 2020 – Series

Ideal Solutions from small to high return rates - No boards due modular design

Small retailers

Medium to large retailers

Large retailers to mega stores

Up to 400 m²

Up to 800 m²

Up to 1400 m²

From 1600 m²

Free Standing Solutions

Modular Reverse Vending Systems



100 - 500
Empties/day



500 - 1.000
Empties/day



750 - 1.500
Empties/day



1.250 - 2.500
Empties/day



2.500 - 7.000
Empties/day



> 7.000
Empties/day

Jielaff®

General Fraud Prevention

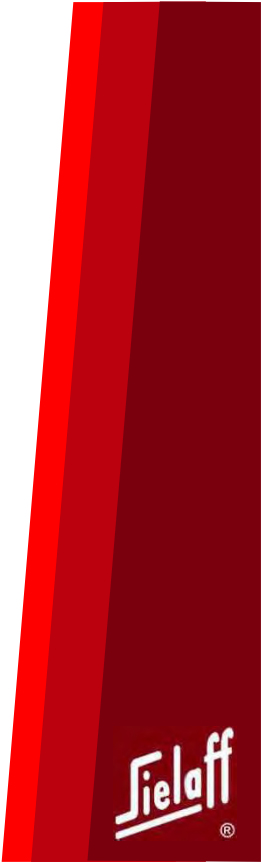
Hardware related

OMEGA 360° Camera based recognition
Recognition of Barcode & Security Marking



Bottle Shape Recognition

Weight Detection



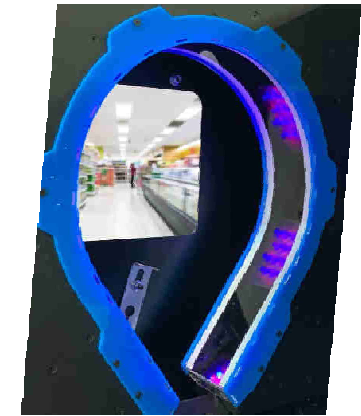
General Fraud Prevention

Hardware related

Hardware related in our SiVario 2020 – 360° OMEGA Reader

With our real time 360° camera recognition system, Sielaff ensures highest security measures in combination with future proof reading technology.

- ☑ No rotation - 360° camera based reading
- ☑ Reading bar codes
- ☑ Reading of QR codes
- ☑ Reading of logos / markings
- ☑ Recognition of the direction (label movement)



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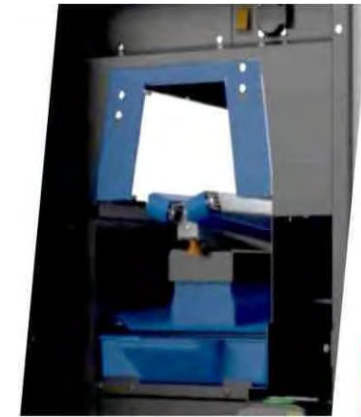
General Fraud Prevention

Hardware related

High resolution scale & camera based shape recognition

Our SiVario 2020 systems are as a standard equipped with a high resolution scale as well as a camera based recognition system.

- ☑ Weight measurement of each container
- ☑ Measurement of the diameter and length
- ☑ Recognition of the shape of the container
- ☑ Cross verification of the data in the data base



Bottle Image



ID	"601202"
Title	"Bottleid"
barcode	"5060517882884"
weight	15

Jielaff[®]

General Fraud Prevention

Hardware related

Security sensor technology within the machine

- ✓ Anti theft detection - directional sensors
- ✓ Real time container tracking in the system
- ✓ Plausibility check of bin emptying
- ✓ System operational integrity check (no by-pass)
- ✓ Real time separator and compactor status check



Jielaff[®]

General Fraud Prevention

Software and AI related

Sielaff's own software solution ensures a real time monitoring of the entire system. Sielaff is furthermore in the process of implementing AI features in this platform.

- ☑ Anti fraud with ropes
- ☑ Split of objects inside
- ☑ Plausibility check and system integrity
- ☑ Real time monitoring
- ☑ Real time notification



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Compaction Rates

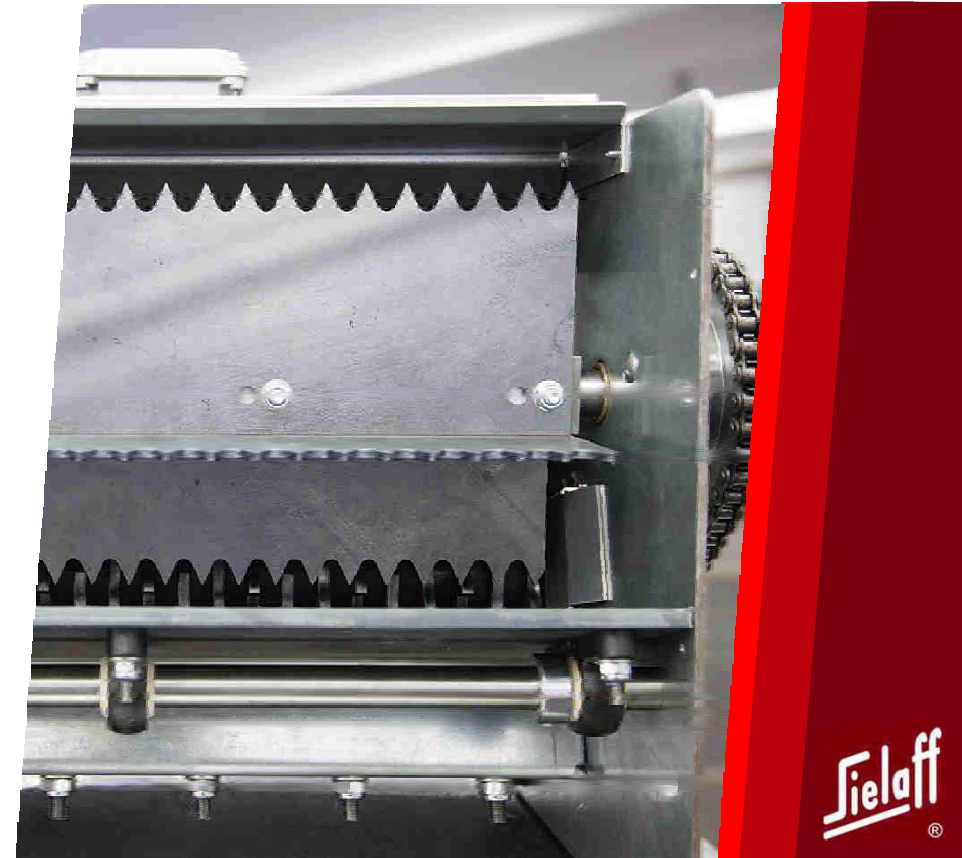
Based on figures and facts - the sustainable approach

Sielaff is utilizing its own compaction technology to ensure long lasting results in combination with highest security in devaluation of the empty.

A pure compaction without a destruction of the bar-code and security marking is of no use. The Sielaff compactor are ensuring both destruction of the bar code as well as a compaction rate of more than 5 times the size.

The separation of PET and CAN is a question of the later recycling process.

For stand alone solutions it is recommended to comingle whilst in larger solutions a separation is better.



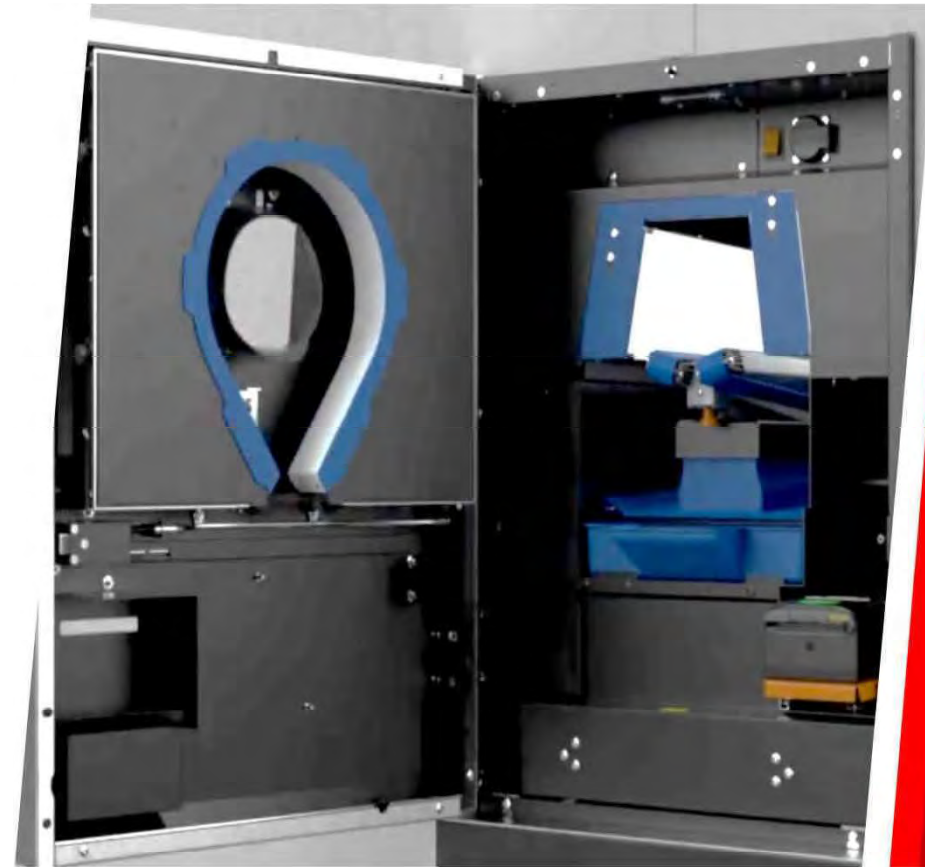
SiVario 2020 – Series

The difference within

User friendly cleaning - Colour Coding

- ✓ The blue colour allows a simple and easy cleaning
- ✓ Easy exchange of the acceptance belt
- ✓ Avoidance of dirt cumulation in motors
- ✓ Large collection tray
- ✓ On Screen Pictorial Guidance and Promoting

Orange	Components, which can be moved to simplify servicing.
Blue	Surfaces which must be cleaned.



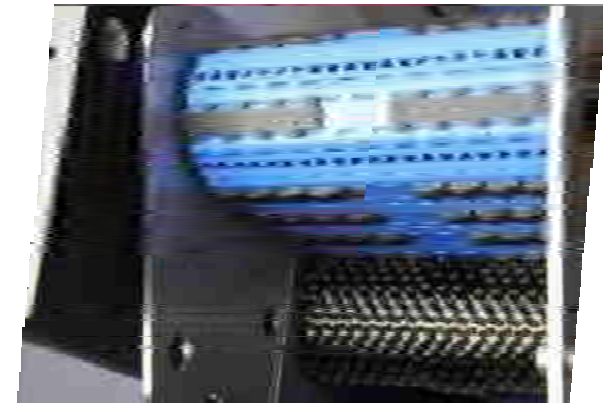
Jielaff[®]

SiVario 2020 – Series

The difference within

FlexiSort® band and Flipper®

- ✓ Robust, industrial grade conveyor belt
- ✓ Transportation of all shapes
- ✓ Self cleaning conveyor - no weekly cleaning
- ✓ Flipper - separator with active belt
- ✓ Secure diversion into the crusher
- ✓ Avoidance of blockage



Jielaff
®

SiVario 2020 – Series

The difference within



Sielaff Safe Log System

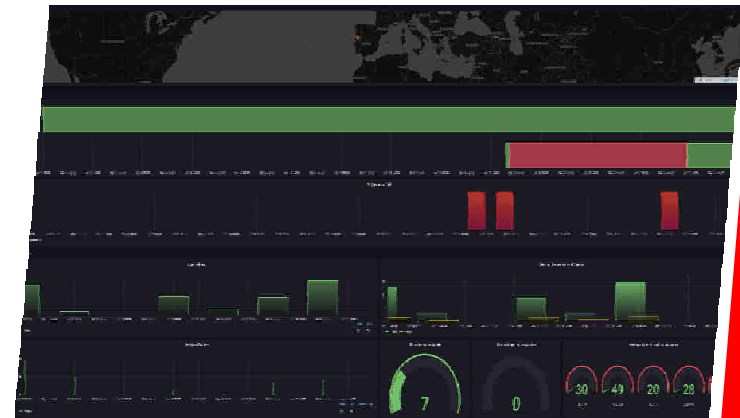
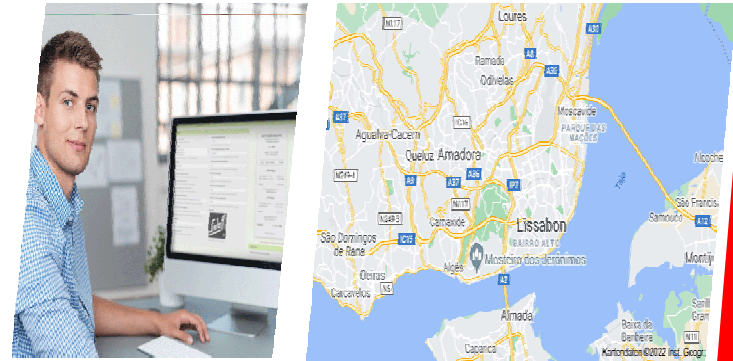
- ✓ Safe - Log opening system
- ✓ No hardware key required
- ✓ Opening also without power supply
- ✓ Alternative opening

Sielaff[®]

Real time Monitoring and Analytics

On site and off site real time monitoring and control

- ✓ Voucher Control
- ✓ Uptime Monitoring
- ✓ Cleaning programme schedule report
- ✓ Receipt reports
- ✓ Current activity status
- ✓ Life Screen



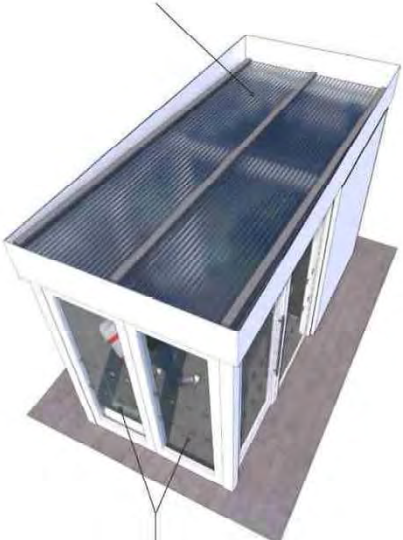
Jielaff®

Instore Space is Premium - Exterior Solutions

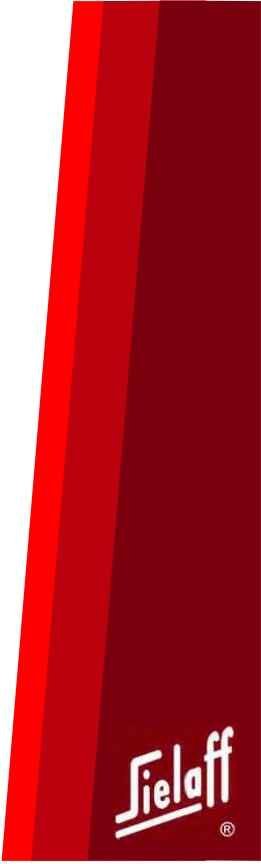
Modular and flexible for large or small store formats



GLAZING MANIFESTATIONS APPLIED TO REACH DDA SAFETY REQUIREMENTS

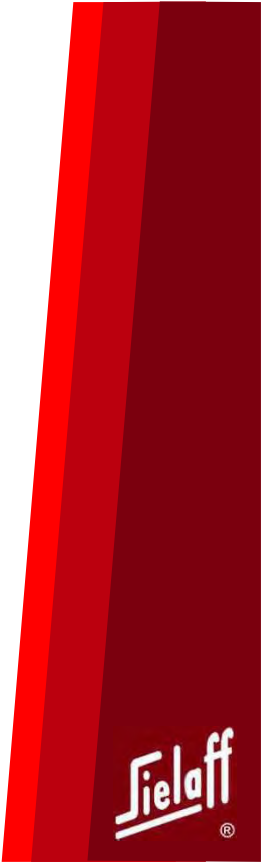


GLAZED PANELS CAN BE SUBSTITUTED FOR INSULATED WALL PANELS COMPLETE WITH BRANDING OPPORTUNITY



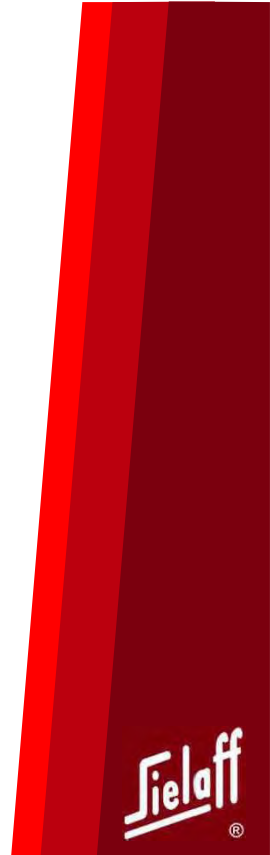
Instore Space is Premium - Exterior Solutions

Modular and flexible for large or small store formats



Instore Space is Premium - Exterior Solutions

Modular and flexible for large or small store formats



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engineering innovation for you