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## nagels access media – more than just tickets

Regardless of whether they are used in the parking, public transport, event or identification sector, tickets have one task above all: work reliably, to ensure customer satisfaction, security and smooth running processes.

**Therefore, you need experienced and strong partners by your side.**

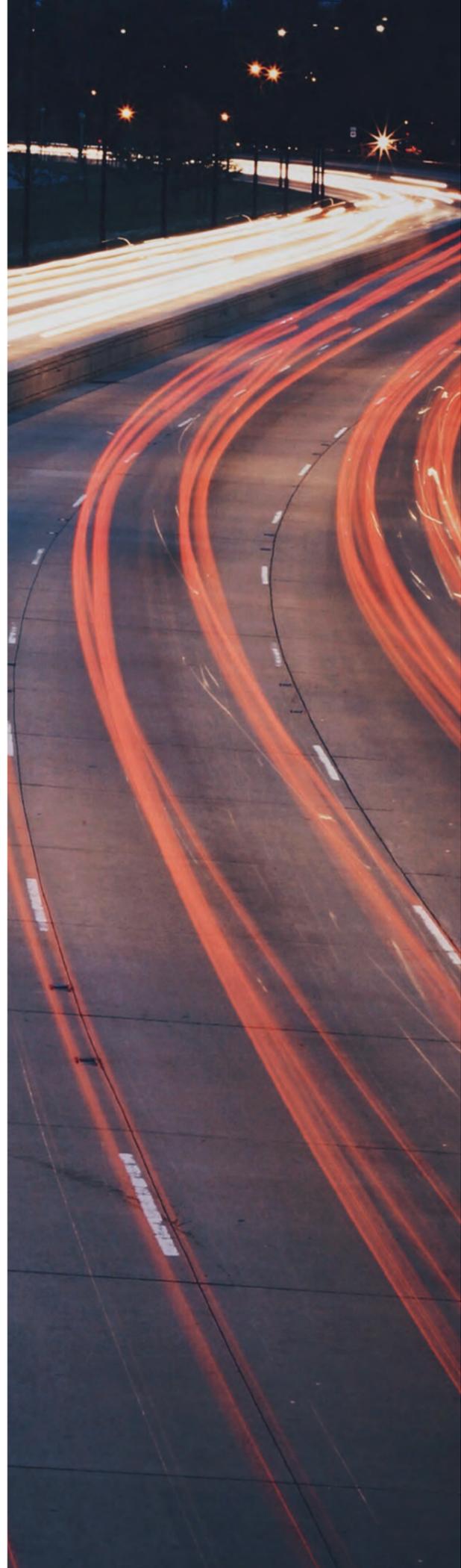
Our ticket manufacturing expertise guarantees that our customers receive reliable products that perfectly meet their requirements. For over 30 years, **nagels** access media has developed and produced more than 1,000 different types of tickets and cards for a wide range of different uses and has been one of the market leaders in the area of ticket production for many years.

Our extensive product portfolio includes contactless RFID ticket solutions as well as barcode and magnetic stripe tickets.

Our certifications by system manufacturers and long-standing customer relationships along with our company's ISO certifications are proof of the quality and reliability of our products.

As an independent business unit within the **nagels** portfolio, **nagels** access media is your expert full-service partner and consulting service provider for smart ticket solutions for the access sector.

more than just tickets



**nagels** products help people all over the world to gain access to information and points of interest. Besides ticket and smart identification solutions for the healthcare sector, **nagels** also manufactures classic printed products. Our product portfolio is completed by the marketing of the advertising space on various various analogue, digital access and identification media. The **nagels** group encompasses fifteen subsidiaries in ten countries. Around 300 employees all over the world guarantee the long-term success of all four business units.

4.5  
BILLION TICKETS/  
ANNUALLY

EXPORTS TO  
MORE THAN  
80  
COUNTRIES

3  
PRODUCTION  
FACILITIES  
WORLDWIDE

300  
EMPLOYEES



attracting attention

**nagels** ad sales markets exclusive advertising space on all kinds of access tickets as well as digital information and presentation systems for digital advertisement content playback.



medical identification specialist

**nagels** healthcare supports hospitals, doctor's surgeries and laboratories with ready-printed forms and identification media aimed at the simplification and optimisation of workflow processes.



discover the difference

**nagels** print services unites expertise and innovation in the areas of digital and offset printing. From pre-press to finishing, product quality, advisory expertise and responsible and sustainable production have been the key success factors of the oldest business unit for more than 80 years.

# Certified Quality

## Certified Quality

### Manufacturing

At **nagels** we understand the need to address environmental concerns when it comes to ticketing.

With growing international focus on the environment and the impact, products and services can have are constantly increasing both customer and public demand for change and for organisations to address these issues in a clear and positive manner.

As a business, **nagels** has undertaken a range of initiatives to address the environmental impacts of ticket manufacture, providing more environmentally friendly and sustainable solutions.

**nagels** has invested in clean solar energy solutions at our primary production facility by installing almost 1,000 large format solar panels providing a large proportion of the energy used in the ticket manufacture. In addition, the business has continually invested in our production capability and processes allowing **nagels** to drive down CO<sub>2</sub> waste while increasing productivity and performance through enhancements in our digital print, in-line finishing and our smart ticket and encoding business units.

### Paper

The materials **nagels** uses are specially sourced to meet the functional demands of the TIS and the climatic conditions in which the tickets are used.

**nagels** papers are all Bisphenol A free (BPA) and come in both standard or thermally coated, ensuring all obligations are met both governmental and environmental

**nagels** holds FSC chain of custody certification and we ask for the same to be provided by our raw materials suppliers when possible to provide assurances the papers used in our ticket construction are sourced from managed and sustainable resources.

Most products are recyclable and/or biodegradable, depending on the final construction specified by the public transport operators.

### Certification

As a business, **nagels** is recognised as a leading ticketing manufacturer across a range of industries and holds certified manufacturer status with most of the leading OEM and system integrators. To accompany this, **nagels** also holds ISO 14001 environmental certification that is audited frequently, ensuring best practices are adhered to.

The ISO 14001 certification compliments **nagels** ISO 9001 quality and ISO 27001 data management, providing assurances to our partners in the across our range of active business sectors.



# nagels Tickets in every day Life

## nagels Tickets in everyday Life

Without realising **nagels** products are used by customers again and again in their daily lives at many locations. Thanks to the quality and functionality of our access media, they reach their destination stress-free and unhindered.



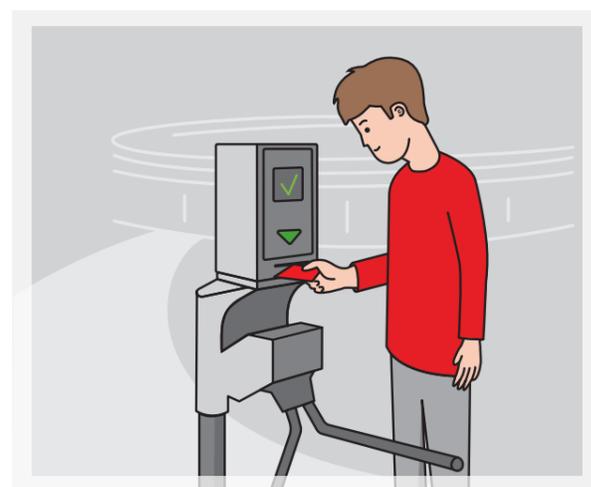
### Parking

The journey of your customers often begins with entering the car park. Our tickets support the smooth operation of barrier systems, off-street and on-street parking systems and clear the way.



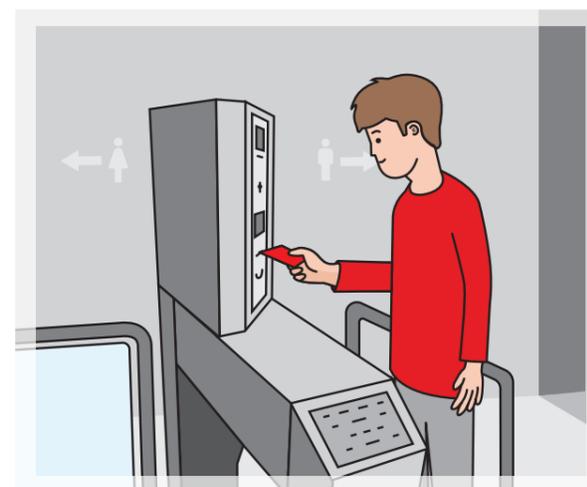
### Public Transport

The car is safely parked in the parking garage, the next stage is tackled by public transport. Our products for the public transport sector, whether magnetic stripes, barcodes, RFID or QR-Codes, make the onward journey on public transport easier for passengers.



### Admission Control

The destination is reached. The excitement is rising. Only one step separates your visitor from the long-awaited event, game or cultural experience. Fast, safe and uncomplicated handling is made possible with our numerous products for admission control.



### Sanitary Facilities

Even here, our products accompany your customers and help you to protect your investment through paid access systems – for example with vouchers including highly secure holographic stripes or images.

# Parkinggio

Parking



With approx. 1.3 billion cars on the road worldwide, the need for parking spaces is constantly increasing. The industry is changing, from the mere provision of parking spaces to a place where customers expect to find further services, such as charging stations for electric vehicles and valet services.

The customer experience begins as soon as they enter the car parking facility. To make visiting department stores, airports, hotels, hospitals or motorway services as comfortable and smooth as possible for your customers right from the first point of contact, we constantly develop and enhance the functionality of our products in line with technological advancements and demand.

Our many years of collaboration and development alongside many leading OEMS and system integrators have allowed us to develop products that offer the highest level of functionality, maximising performance and reducing wear and ticket related system downtime, all contributing to the highest possible customer experience.

Furthermore, we also stay close to our customers and their needs through our memberships including the **EPA**, **BPA** and Germany's national parking association **Bundesverband Parken** as well as Vexpan and Belgische Parkeerfederatie.

## Paper tickets

Disposable paper tickets are particularly suitable for high-traffic installations. Due to their favourable manufacturing costs and great variability in grammages, sizes and qualities they can be adapted to individual requirements and specifications.

## Plastic cards

Our standard plastic cards are up to 0.82 mm (+/- 0.08 mm) thick and made of high-quality laminated PVC. With their 86 x 53,98 mm format, they meet the internationally applicable ISO 7810 standard and are compatible with various secure applications such as RFID technology.

## Thermal rolls

Our product portfolio includes products for direct thermal or thermal transfer label printers that meet the highest standards, whether for barcode, magnetic stripe or RFID technology use. Internal and external core and role diameters can be individually adapted to systems specifications.

## Barcode tickets

We use an extensive choice of thermal top coated materials that are compatible with all systems. Today's new barcode forms make different coding possible, combined with highly secure encryption.

## Magnetic stripe tickets

Our magnetic stripe can be glued, or heat sealed onto the products. We use HiCo (2750Oe/4000Oe) and/or LoCo (300Oe) magnetic stripes in various widths. Our magnetic tickets are produced as fanfold, roll or cut single formats.

## RFID tickets

Convenient, efficient, fast and secure. Our paper-based RFID ticket solutions offer new possibilities with the aid of contactless and wireless technology. In addition to paper-based tickets, our portfolio also includes labels, tags, PVC cards and much more to make tracking and access control as easy and secure as possible.

## QR-Code tickets

Single paper-based tickets with individual imprinted QR coding provide a cost-effective and highly secure solution for public transport ticketing.

You can find a detailed overview of our products in our product portfolio or at [www.nagels.com](http://www.nagels.com)

## Our Service



### Consulting

- Competent & flexible
- On-site consulting by technical or sales team
- Qualified back office & graphics department



### Certified Production

- Certified according to ISO 9001, 14001, 27001
- Recommended and certified by most leading manufacturers/OEMs



### Optimised delivery time + storage

- Just-in-time production
- 1,500 Europallet storage spaces
- Same day shipping available (during business hours)

## Colours & design

All standard and special colours can be printed on both the front and the reverse. Due to our precise colour mixing system we guarantee the colour consistency of your products, so that even the 10,000th ticket looks like the first. When it comes to designing your tickets, our graphics department will be happy to help you.

# Counterfeit Protection



To prevent revenue losses and unauthorised access, the top priority for tickets in various areas is that they must be counterfeit proof.

We offer a wide range of security features for your tickets, from printing with various security inks to guilloche and high-quality hologram application or RF technology.

Secure papers are also available with a range of build in features such as colored centers or fluorescent fibers.

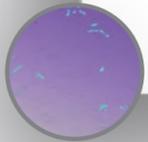
## SECURITY COLOURS



0301NDK11151



## FLUORESCENT FIBERS



## RF TECHNOLOGIES



## HOLOGRAMS

# Public Transport

## Public Transport

Every year, up to 60 billion people worldwide use public transport, a trend that is set to increase. The smooth and comfortable transport of sizeable heterogeneous groups calls for planning, experience and the right partners.

Road and rail traffic, aviation and sea travel – each area poses different challenges and requirements when it comes to the respective access solution.



**nagels** products accompany your customers and staff throughout their entire journey in all areas, starting with the folded ticket issued by the parking machine to our thermal roll bus ticket and contactless solutions, for example in the form of ID or key cards. Our expertise ensures that the customer journey is pleasant and fault free.

Our **Calypso Networks Association** helps us to adapt our products to the technological advances and to constantly expand our range of smart ticketing products.

In 2019, our team of experts developed a CNA and CEN/TS 16794-2:2017 certified **Calypso Light Application (CLAP)** ticket that represents a cost-efficient, machine compatible Calypso ticketing solution.

Our customised **QR code single tickets** also represent a low-cost alternative for public transport. The tickets are also counterfeit proof, thanks to their unique QR-Codes.

**Calypso**  
Networks Association

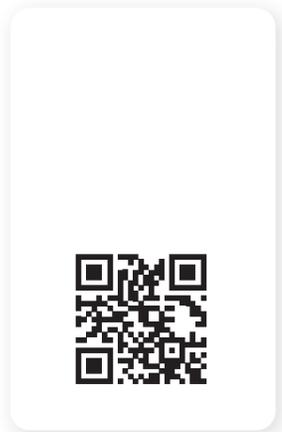
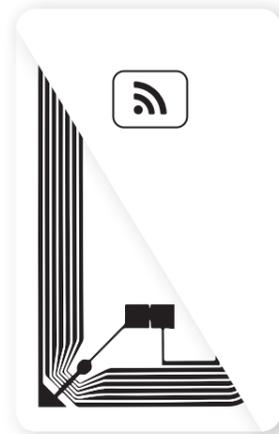
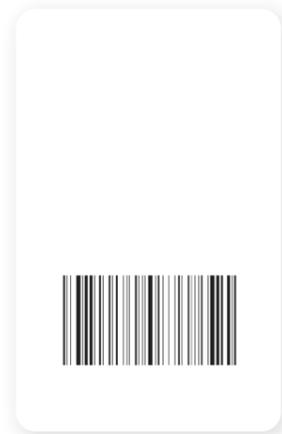


# Product Portfolio

## Product Portfolio

Our products are manufactured against the highest quality standards, utilising the latest manufacturing and QC testing technology. Our wide range of formats and materials ensures the products are produced to perfectly match OEM-specifications.

Premium top coat, cost-efficient or durable PVC products, the experienced **nagels** team will develop the best solution for your access system.



# Leisure & Events

Leisure & Events



One of the challenges in the events and leisure sector is to guide large, emotionally charged crowds of people safely through the access systems in comparatively confined spaces.

If the access to your events, leisure parks, sports events or also culture experiences is trouble free and easy, the positive overall perception increases.

**nagels** products ensure that all of your access media requirements are met and in addition, that security features safeguard your investment against counterfeits. Our team can offer guidance on special security papers and a variety of overt and covert security features from coin reactive and invisible inks to holograms and metallic foils to name only a few. Environmental and temperature impacts are also taken into account. Our production and design studio provide excellent print reproduction, not only resulting in high quality tickets for access but a memento of the experience for visitors.



# Sanitary Facilities

## Sanitary Facilities

Sanitary facilities in shopping centres, at motorway services or in railway stations have long since overcome their negative image as unhygienic, dark places, to be visited only in an absolute emergency.

Modern, light spaces with a well-designed cleanliness concept create a comfortable ambience for your customers. In order to maintain this, access systems with a charge ensure controlled access. The issued vouchers are often protected against counterfeiting with hologram stripes.

**nagels** has many years of experience in the manufacture of vouchers for sanitary facilities and can also manufacture PVC-based access solutions for your regular customers.



# More Products

## Products for Regulatory Authorities

Authorities need special products that precisely meet their individual requirements. Weatherproof thermal rolls in various formats are just one example.

We offer a wide choice of products for cities and communities, from notepads in customised designs to parking permits with holograms to printed penalty charge notices (PCN).



## Multi Industry Cleaning & Care Products

Up to 90 % of all payment machine downtimes in the parking, access and banking area are due to contamination. Regular preventive cleaning maintains and protects ticket vending machines from breakdowns and your company from service costs and loss of revenue.

Our portfolio of cleaning & care products is designed for multi industry use across a wide range of sectors.

Cleaning Cards are simple to use:  
Once a week - best to introduce a wet cleaning card - use two or three times - done!  
Please see our „Multi industry cleaning & care products“ brochure for more information and an overview of our cleaning range.



# nagels ad sales

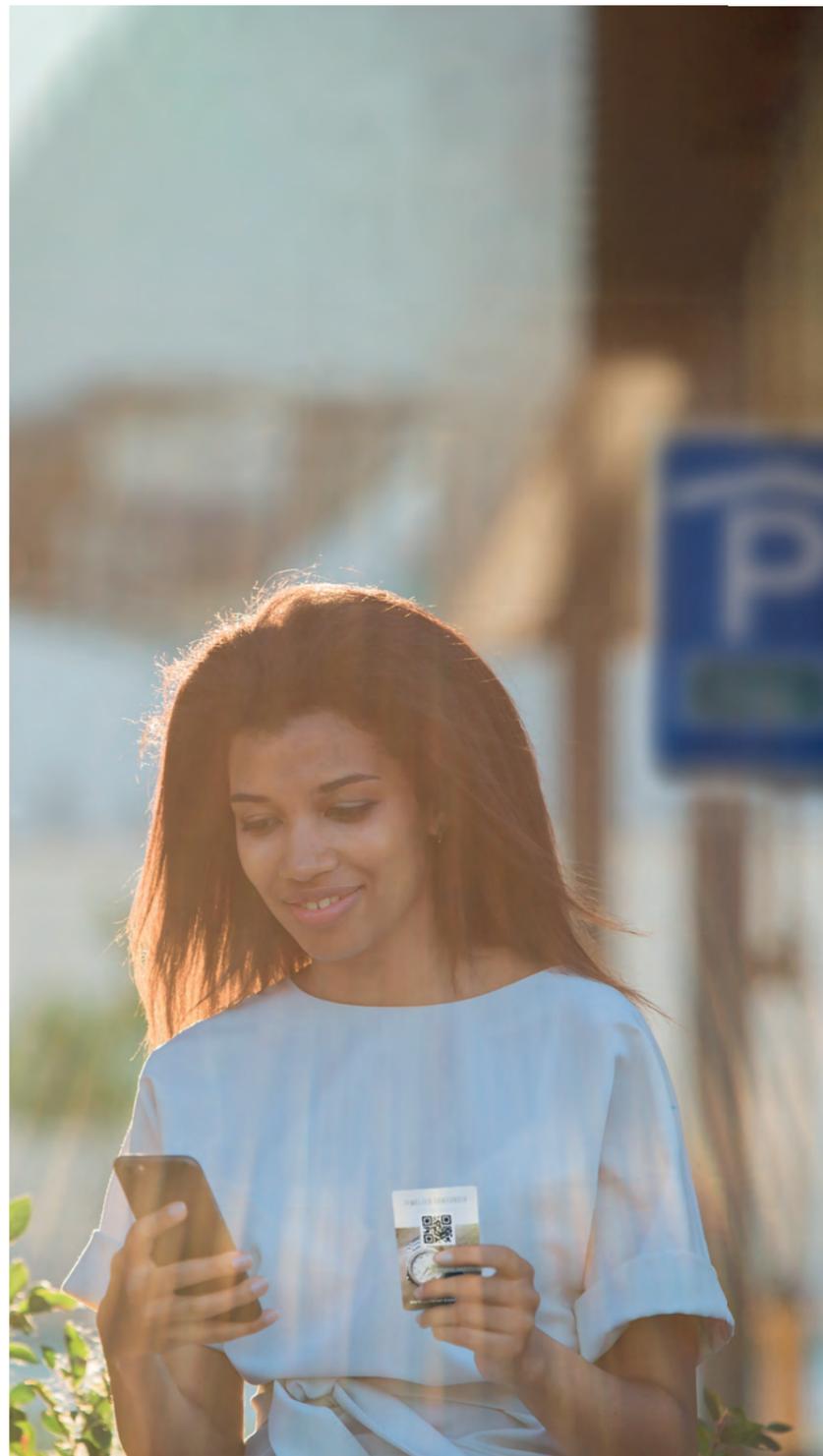
## Ticket Marketing

### Save costs by marketing your tickets as advertising space

As a full-service media marketer, **nagels** ad sales offers operators of parking facilities, local and long-distance public transport operators, event organisers and all institutions that require access tickets the opportunity to market their ticket as an advertising space. This advertising space has the potential to generate additional revenue from third party advertisers, along with self branding and promotional offers.

Through our in-house ticket production and close cooperation with advertising partners and agencies, we create added communication value at the point of sale and point of interest.

Whether used in car parks, at the check-in or at the stadium – products and brands attract the attention of potential customers if they are advertised on tickets.



As a parking operator or owner, you have ability to offset ticket cost through the sale of advertising space on the reverse of the tickets directly or through our ads sales division. Alternatively, you have the freedom to utilise this space for yourself and benefit by marketing your own business or services, running promotional campaigns or simply brand and product awareness advertising. All within the framework of a positive customer journey and strong customer loyalty.

### Advantages of ticket advertising at a glance

- Discounted ticket conditions
- Commission opportunities with advertising partners
- Increase customer loyalty

### Products and technologies

- Classical advertising tickets
- Perforate advertising tickets
- Digital ticket advertising



Classic ad format



Tear off perforation for couponing campaigns



Digital ticket advertising