



ROAD SAFETY SOLUTIONS.



WE POINT THE WAY

Nissen Drop & Pick system –
The safe early warning solution

MORE SAFETY IS IMPOSSIBLE

No need
to enter
the traffic
area!



Dear customers, partners and prospective customers,
Securing construction sites in road traffic is a complex task associated with a high number of risks. The use of mobile warning trailers and one or more LED advance warning signs involves extra personnel and material – and therefore increased risks. Our Drop & Pick system permits comprehensive securing of complete construction sites using a single vehicle and one employee, dispensing with the need to physically enter the traffic area. Find out more about the advantages of this system for maximum safety and efficiency.

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SOMEONE ALWAYS HAS TO BE THE FIRST



“An increased securing effort (3rd advance warning board) due to growing traffic volumes represents new challenges in terms of personnel and vehicle technology. While looking for efficient solutions, we were the first motorway maintenance agency in Germany to opt for the Nissen Drop & Pick system. Right from the start, we were convinced of the possibility to secure entire job sites using a single vehicle and one employee. Furthermore, the system improves work safety and permits increased flexibility. Someone always has to be the first. And we certainly won't be the last.”

Herbert Wagenländer, Director of the Neusitz motorway maintenance agency





Watch the
product video
now on:
nissan-germany.com/dp



BARRIERS AUTOMATED



The advantages for you at a glance

- Up to three securing modules per unit
- Choice of 616 traffic signs or LED variable traffic signs
- Improved work safety thanks to automated processes
- No need to physically enter the traffic area
- Accelerated work processes
- Automatic locking and cargo securing for all modules
- Automatic fixing of all modules
- Central charging connection
- Resistant to winds of up to 80 km/h
- Can also be used with loading unit for even more flexibility

The Nissen Drop & Pick system comprises a van or trailer with up to three detachable modules which can be equipped with 616 traffic signs or LED variable traffic signs. Job sites can be secured easily, fully and in line with regulations. Particular advantage: no need for your personnel to leave the vehicle for dropping or setup. This significantly improves work safety on site.

Variable applications

For even more flexibility, the Drop & Pick systems can be combined with overhead early warning displays or mobile impact protection systems, for example. What's more, the Drop & Pick van can also be equipped with a loading unit for other assignments.



EVERY DETAIL IS AN ADVANTAGE



The Nissen Drop & Pick system standardises the workflows of mobile traffic safety measures in an automated process. This eliminates errors, increases safety and improves your efficiency.

1 Before the Drop & Pick system drives to the job site, the LED modules are programmed at your depot.

2 The individual modules are dropped at the touch of a button at the job site to be secured.

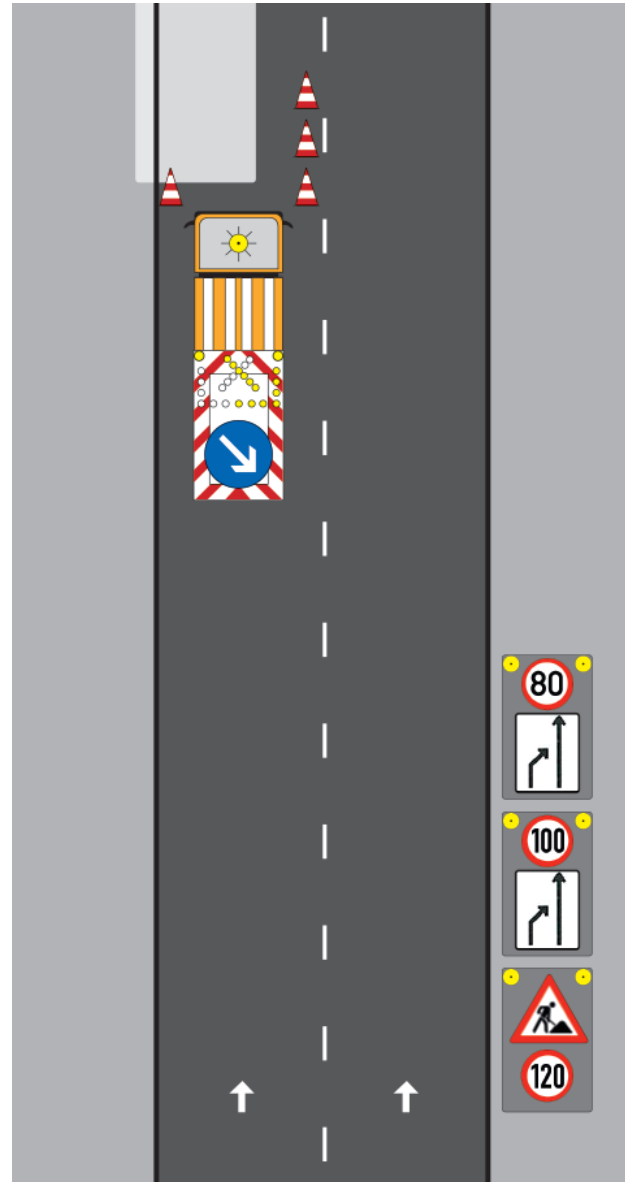
3 The panels are set up and activated fully automatically.

4 The rear-view camera facilitates monitoring of the individual work steps (Image 1).

5 Collection of the modules is also easily possible thanks to the rear-view camera (Image 2). The panels are folded and deactivated fully automatically.

6 On the vehicle, the modules are secured for transport using automatic safety bolts (Image 3).

7 If the system is connected to the 220V mains, all modules are charged simultaneously (Image 4).



Site plan example



Image 1



Image 2



Image 3



Image 4

UNLIMITED POSSIBILITIES



In combination with other securing equipment, the Nissen Drop & Pick system reveals its full potential. We would like to present two typical solutions for extending your applications, reducing personnel and optimising your workflows.

Please contact us about other possibilities – we would be delighted to advise you.

Drop & Pick van with LED overhead early warning display

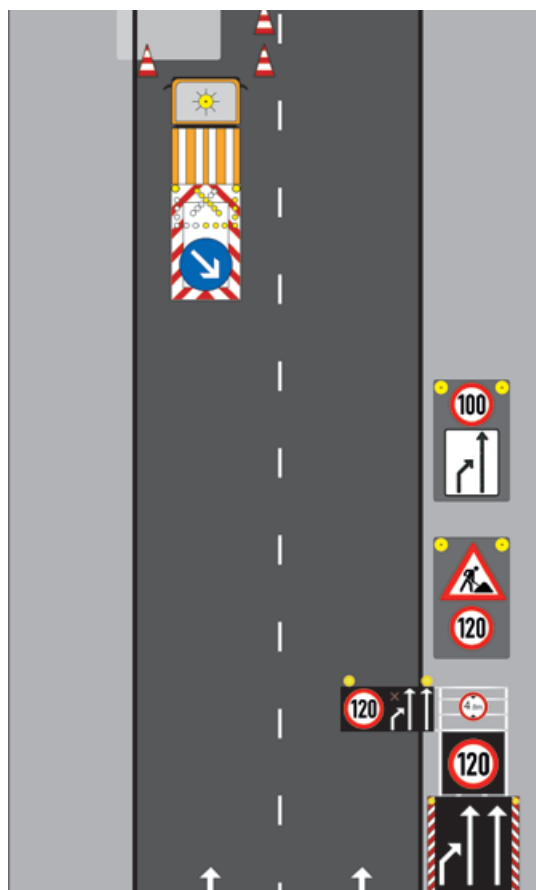


Experts recommend the use of overhead early warning displays on roads with heavy truck traffic in particular. For this, Nissen offers the PHAROS 2.0 and the PHAROS 2.39, the only mobile overhead early warning display approved by Road Traffic Regulation (StVO) § 39 (2). Both models avail of LED panels for displaying dynamic symbols and text. The panels can be extended to a height of up to seven metres and, in the case of the PHAROS 2.0, folded over the road. Even during increased truck traffic and chaotic traffic situations, danger areas can be visibly indicated over a long distance.

As easy as Plug & Play

The combination of a Drop & Pick van and PHAROS 2.0/2.39 enables installation of four barrier units using a single vehicle and one employee, whereby the Touch Remote is extremely useful and can control up to eight systems.

- 1** Dropping the overhead early warning display on the hard shoulder. Setup and activation by remote control.
- 2** Dropping the first early warning module on the hard shoulder. Setup and activation are fully automatic.
- 3** Dropping the second early warning module on the hard shoulder. Setup and activation are fully automatic.
- 4** Activation of the mobile warning signs on the van as a slider by remote control or automatically as a drop module on the neighbouring lane.



MAXIMUM FLEXIBILITY



Drop & Pick trailer with mobile impact protection system



Scientific studies confirm the increased risk of accidents within mobile and temporary job sites.* Reliable protection is offered by mobile impact protection systems such as the GUARDIAN and RAMBO II from Nissen. Both developments unite the closing of lanes and protection of personnel, road users and emergency vehicles in the event of a collision. Both systems can be easily mounted on existing vehicles and do not require any additional personnel.



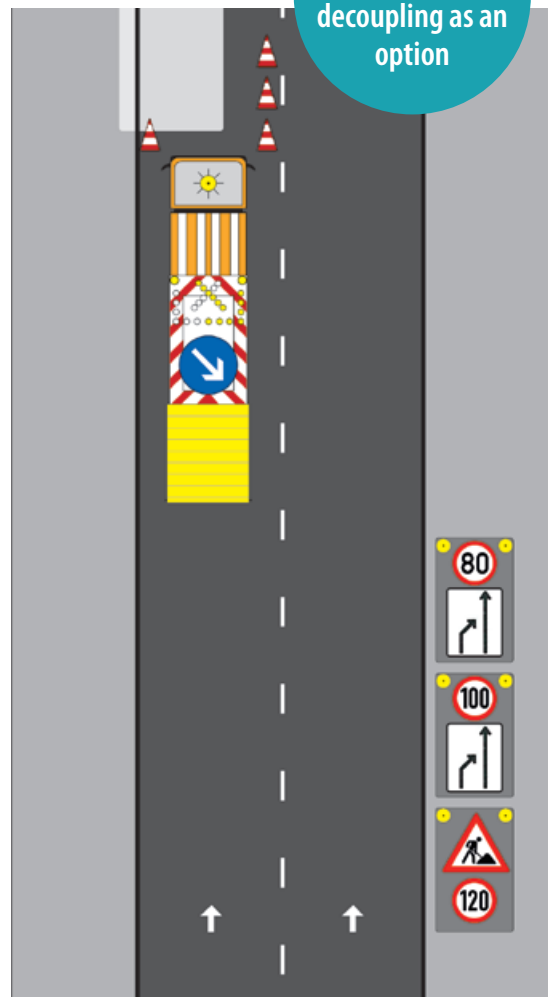
More information available at: nissen-germany.com/guardian

All-in-one solution

By fitting a vehicle with an impact protection system and a Drop & Pick trailer, you can install four barrier units with a single vehicle and one employee, whereby all units can be controlled using the ProTouch remote control. For even more safety, the trailer can be fitted with automatic coupling and decoupling.

- 1** Dropping the first early warning module on the hard shoulder. Setup and activation are fully automatic.
- 2** Dropping the second early warning module on the hard shoulder. Setup and activation are fully automatic.
- 3** Dropping the third early warning module on the hard shoulder. Setup and activation are fully automatic.
- 4** Activation of the mobile warning signs and impact protection system by remote control on the neighbouring lane.

Automatic coupling and decoupling as an option



*Institute of Road Construction Aachen: Studies on the effectiveness of TMA

ADVANTAGE VarioSign LED SYSTEM

The Drop & Pick modules can be fitted with variable traffic signs from the Nissen VarioSign LED system. SMD circuit boards produced in-house are available in several sizes and the VarioSign Classic offers up to four colours while the VarioSign RGB has 256 colours. The VarioSign LED system permits dynamic symbols and text and is distinguished by good visibility even in daylight as well as optimum colour reproduction.

The advantages for you at a glance

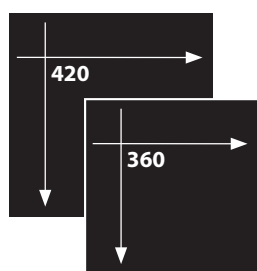
- Better visibility thanks to active illumination
- Fewer risks and accidents
- Variable applications
- Wide variety of displays
- Compatible with intelligent control systems
- Low energy consumption



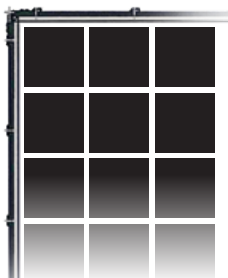
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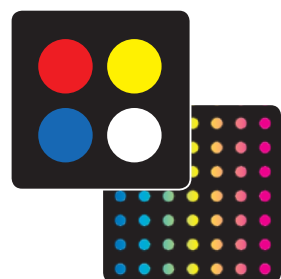
Basic modules



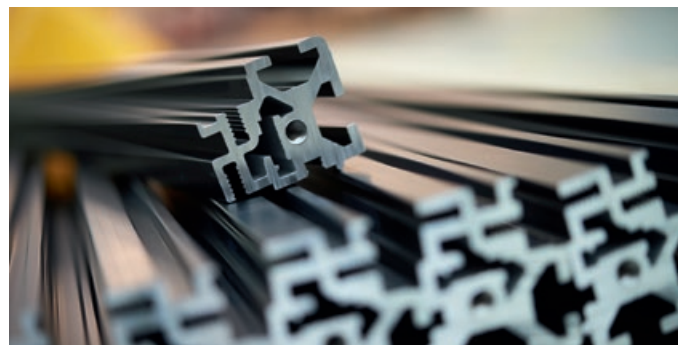
Aluminium profiles



LED Classic or RGB



Programming





SAFETY FROM A SINGLE SOURCE



A handle on everything

The Nissen Drop & Pick system is compatible with the Nissen operating concept. Both the Drop & Pick trailer and the Drop & Pick van can be easily and conveniently controlled using the Nissen Touch Remote Color and Standard or Pro-Remote manual controls. Giving you wired or wireless control of practically all of your system's functions. These include raising and lowering the panels, lights and of course the symbols and text on the LED variable traffic signs. Particular highlight: both manual controls are compatible with all Nissen systems and

can access up to eight devices.

The advantages for you at a glance

- Intuitive and safe operation
- Choice of wired or wireless manual control
- Illuminated keypad
- Uniform operating concept for all Nissen systems
- Robust and impact-proof housing



Drop & Pick Systems

Van



CHASSIS AND BODY

- Construction for two or three modules
- Hydraulic scissor lift for lifting and lowering the modules with a hand pump for emergency adjustment
- Double-sided locking for each module
- A separate operating element in the driver's cab, for lifting and lowering

VAN

- Transporter for traffic control modules based on an Iveco Daily
- Standard engine output of 150 hp
- Fuel: Diesel EURO 6
- 6-speed manual transmission
- Air conditioner

ACCESSORIES AND OPTIONS

- Upgrading the engine output to 180 hp
- automatic
- Integrated battery charging system of the modules via the vehicle
- Rear view camera set with a colour monitor in driver's cab
- Warning flasher set consisting of two flashers on the front of the vehicle as well as the rear of the vehicle and two hazard warning lights on the vehicle roof



Drop and Pick Van with three individually programmable Modules



Remote control in the driver's cab and scissor lift

Technical data

| | |
|---------------------------------|--------------------------|
| Total length | 7103 mm (with 3 moduls) |
| Total width | 1500 mm (without moduls) |
| | 1445 mm |
| | 4650 mm |
| | 1900 kg (front) |
| | 3100 kg (rear) |
| Empty weight depending on model | 3100 kg |

Drop & Pick Van

Traffic safety vehicle Drop & Pick Van
(Iveco Daily)

Ref. No.

129 721-001



More information
NIS-02020
To be entered on nissen-germany.com



Drop & Pick Systems

Trailer



BODY

- For transporting up to 3 automatically attachable and detachable modules
- Chassis and body made of galvanized steel
- Height-adjustable drawbar with overrun brake, parking brake inclusive Rückomatic
- 3 hydraulic platforms with scissor mechanism for raising and lowering the modules
- Emergency operation of the hydraulics to lower the units by means of an integrated hand pump
- Integrated battery charging system via charging contacts on the hydraulic platforms
- Automotive lighting 12 V or 24 V possible
- locking of the individual modules

ACCESSORIES AND OPTIONS

- Reversing camera set inclusive 9" screen
- Module "Warning sign VZ 616"
- Module "Pre-Warning LED"



Drop & Pick Module



Traffic safety trailer Drop & Pick without Module

Technical data

| | |
|---------------------------------|--------------------------|
| Total length | 6490 mm |
| Total width | 1700 mm |
| Height | 1190 mm (without moduls) |
| Total weight | 3500 kg |
| Empty weight depending on model | 1400 kg |

Drop & Pick Trailer

Ref. No.

Drop & Pick Trailer

129 720-001



More information
NIS-02017
To be entered on nissen-germany.com



Drop & Pick

LED module



CHASSIS AND BODY

- Hot dip galvanized steel construction
- Module for recording two variable message signs
- Optionally as a sliding wall or folding panel
- For transport on a Drop & Pick Trailer or Drop & Pick Van
- Warning mark according to DIN 30710 at the back

MODULE

- 2 tested LED advance warning lamps (WL7)
- 2 LED variable message signs with automatic and manual brightness adjustment for the static and dynamic display of texts, symbols and traffic signs.
- Separately programmable text line
- Libraries on separate memory module to easily change the image content
- Automatic lifting and lowering of the upper board when setting down and picking up the module
- Combined wireless cable remote control for operating all functions via touch screen and direct selection buttons

ADVANCE WARNING BOARD

Upper LED variable message sign

| Type | 2x2K-420 | 3x3K-360 |
|----------------------|--------------|----------------|
| Housing size: | 970 x 970 mm | 1260 x 1260 mm |
| LED display surface: | 840 x 840 mm | 1080 x 1080 mm |
| Pixels: | 42 x 42 mm | 54 x 54 mm |
| Grid dimension: | 20 mm | 20 mm |
| LED/m ² : | 2500 pcs | 2500 pcs |

Lower LED-Variable message sign

| Type | 3x4K-420 |
|----------------------|----------------|
| Housing size: | 1390 x 1810 mm |
| LED display surface: | 1260 x 1680 mm |
| Pixels: | 63 x 84 mm |
| Grid dimension: | 20 mm |
| LED/m ² : | 2500 pcs. |

ACCESSORIES AND OPTIONS

- Control and monitoring system
- Interface package
- Operation hours meter



Lifting of the upper board



Remote Control Pro-Remote

Technical data

| | |
|----------------|---------|
| Total length | 1500 mm |
| Total width | 1700 mm |
| Height lowered | 3200 mm |
| Height lifted | 3975 mm |
| Total weight | 420 kg |

Drop & Pick LED module

| | Ref. No. |
|--|-------------|
| Advance warning Board LED, upper sign Vario Sign 2x2-420, lower sign 3x4-420, setting/picking up automatically | 071 005-003 |
| Advance warning Board LED, upper sign Vario Sign 3x3-360, lower sign 3x4-420, setting/picking up automatically | 071 005-004 |



More information
NIS-02061
To be entered on nissen-germany.com



Drop & Pick

warning board



CHASSIS AND BODY

- Hot dip galvanized steel construction
- For transport on a Drop & Pick Trailer or Drop & Pick Van

MODULE

- Modular structure according to RSA 95 and ZTV-SA with traffic sign 616-30 StVo, 3600 x 2200 mm
- Chevron sheet and directional arrow with microprismatic retroreflective foil type RA2C
- Light arrow system with 2 LED advance warning lamps (WL5) and 25 individually monitored LED warning lamps (WL6)
- Directional arrow with motorized rotation, mechanical emergency adjustment and automatic light arrow adjustment
- Automatic lifting and lowering of the upper board during settling and picking up the module
- Combined radio cable remote control for the operation of all functions via touch screen and direct selection buttons

ACCESSORIES AND OPTIONS

- Control and monitoring system
- Interface packet
- operating hours meter
- foil available in type RA3C



Upper board



Remote Control Pro-Remote

Technical data

| | |
|----------------|---------|
| Total length | 1612 mm |
| Total width | 2200 mm |
| Height lowered | 3020 mm |
| Height lifted | 4093 mm |
| Total weight | 480 kg |

Drop & Pick module warning board

Ref. No.

Warning Board VZ 616, setting/picking up automatically, for Drop & Pick Trailer

071 005-002



More information

NIS-02052

To be entered on nissen-germany.com



Touch Remote Color

- Large 5,7" full color touch screen display
- Automatic day/night adaptation
- Combined cable/radio remote control
- Operation of the most important features via keypad
- Favorite combinations freely programmable via touch screen
- Functions keys freely programmable
- Useable for all Nissen systems



Dimensions (LxWxH)
211 x 141 x 39 mm



Weight
680 g

Touch Remote Color

Touch Remote Color
radio/cable remote control (bluetooth) with touch screen
and illuminated keypad (without cable)

Ref. No.

329 236-1

Accessories and Spare parts

Charging tray for remote control Touch-Remote Color without cable function,
2 m connection cable

329 238-1

Charging tray for remote control Touch-Remote Color without cable function,
2 m connection cable with 6 pole sleeve plug

329 238-2

Charging tray for remote control Touch-Remote Color without cable function,
2 m connection cable with vehicle plug



Connector dashboard holder



Charging tray with vehicle plug



Touch Remote in the charging tray



6 pole sleeve plug and vehicle plug



More information
NIS-01742
To be entered on nissen-germany.com

Standard- and Pro-Remote

- Universal remote control for secure and easy operating also of complex devices via cable connection
- Large operating keys
- Illuminated keypad
- Easily readable large display with additional touch screen function.



Dimensions (LxWxH)
215 x 130 x 45 mm



Weight
Standard-Remote: 480 g
Pro-Remote: 700 g

Standard- and Pro-Remote

| | Ref. No. |
|--|------------|
| Pro-Remote II radio/cable remote control - Bluetooth touchscreen (without cable) | 329 231-12 |
| Standard-Remote cable remote control touchscreen (without cable) | 329 232-2 |

Accessories and Spare parts

| | Ref. No. |
|--|------------|
| Holder and charging cradle for radio remote control Pro-Remote | 329 230-1 |
| Holder and charging cradle for radio remote control Pro-Remote 90 – 264 V AC version including adapter useable for EU, US, UK and AU | 329 230-11 |
| Holder and charging cradle for radio remote control Pro-Remote with 2 pin vehicle plug | 329 230-12 |
| Holder for cable remote control Standard-Remote | 329 230-2 |
| Dashboard holder with ball joint arm for remote controls for mounting at holders | 329 230-21 |



Standard-Remote



Pro-Remote



Holder and charging cradle



Holder and charging cradle with dashboard holder



More information
NIS-01785
To be entered on nissen-germany.com

MORE FUNCTIONS, MORE ADVANTAGES

Nissen offers you a wide selection of accessories enabling you to expand the functional scope of your Drop & Pick system and adapt it to your individual requirements.

Electrical system

Battery guard

Safeguard the performance of your system over the long term. The optional battery guard provides you with early warning of the diminishing capacity of your battery before it is too late to power your operations. The device also monitors the charging processes and protects against overcharging, enabling you to effectively avoid unforeseen failures of and damage to the electrical system.

Operation

Operating hours meter

Exact documentation of use of your mobile impact protection system enables you to proactively detect wear and replace parts before pending failure, e.g. lights, batteries or mechanical components. An operating hours meter also supplies key data to facilitate billing.

NiBus modem

This digital data interface serves towards controlling and monitoring our mobile impact protection systems regardless of location and in accordance with safety standards. Furthermore, devices can also be integrated in standard site management systems using the NiBus modem.



Safety

Automatic coupling and decoupling

As an option, the Drop & Pick trailer can be fitted with a fixture for automatic coupling and decoupling to and from the traction vehicle. This dispenses with the requirement of physically entering the traffic area, thereby improving safety.

GPS speed sensor

Depending on the version, our Drop & Pick systems are designed for certain maximum speeds. The optional GPS speed sensor ensures that the barriers are automatically retracted when this maximum speed is exceeded. This also prevents barriers from being extended while driving.

Active monitoring

The impeccable function of your system is decisive for safety. This applies in particular to the correct and comprehensive reproduction of the respective traffic sign. To ensure that this is always the case, operating data is constantly transmitted to the remote control. Personnel working ahead of the system can react in time to any potential malfunctions.

A CALL IS ENOUGH

Do you need a larger delivery of safety barriers at short notice? Do you want an offer for a mobile warning trailer or do you have questions about the versatility of our VarioSign LED systems? Our team in Tönning can be reached by phone and e-mail. We speak your language and handle your concerns as quickly and reliably as possible. And there is always time for a few personal sentences - we look forward to hearing from you!

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FOR YOU LOCALLY

Wherever you need us - the sales specialists in our team will visit you personally at almost every location. Benefit from our tailor-made solutions for individual problems and conditions.



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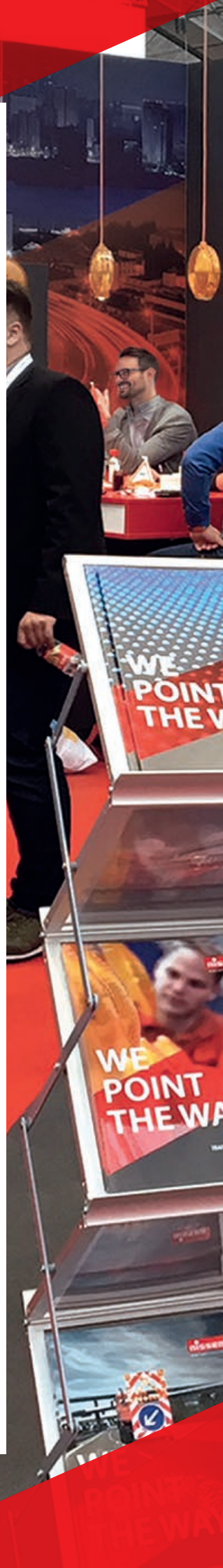
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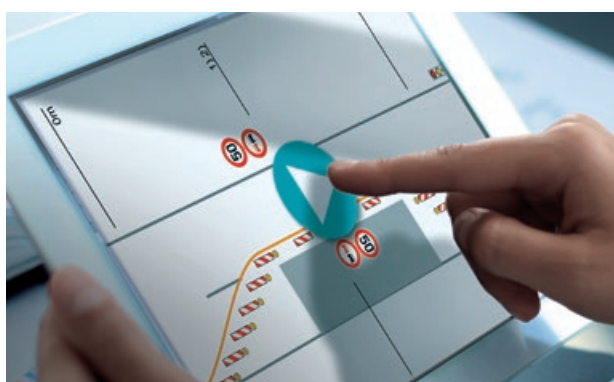




**NO WAY
IS TOO FAR**

Our know-how is only a click away

Convince yourself of the advantages of the Drop & Pick system by watching the product video on our website and discover even more solutions – from guide beacons to traffic management:
nissen-germany.com.



Further information:
nissen-germany.com

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Disclaimer

Subject to technical changes and errors. Illustrations can deviate from the original product or include accessories. All details are approximate. We supply all products without batteries or power packs.

Important:

All products may only be set up and operated by trained personnel. Operating instructions, setup information and the relevant specifications must be observed.

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