



60 YEARS
FORKS
135 years VETTER

 **SmartFork**[®]

Fork assistance systems

More safety, less accidents!

More safety in logistics!

19.758 fork truck accidents in 2022

8 fork truck deaths annually

51 % of all accidents:
the victim is hit by a forklift,
crushed or run over

The accident statistics of the German Social Accident Insurance 2022 (DGUV)



7 reasons

Gut feeling out – professionalism in! Forks with integrated camera technology and sensors are the new level for modern logistics. Industrial-strength technology for reliable results.

- ✓ **Improve visibility:** Even with loaded cargo
- ✓ **Higher level of safety:** For staff and goods
- ✓ **Reduce damages:** Through improved visibility and intelligent sensor technology
- ✓ **Reduce costs:** Through less damage to goods
- ✓ **Easy handling:** Smart sensors integrated in the forks make your work easier
- ✓ **Save time:** Through safe navigation when transporting goods and faster workflows
- ✓ **Better ergonomics:** Full visibility without uncomfortable rotation of head and body



forks.com



SmartFork[®]

Assistence systems

Overview of VETTER SmartFork[®] assistance systems

Five individual features that can be integrated into the forks independently of each other. In combination, they become a complete solution for more safety and efficiency in logistics.



SideCam

Camera integrated in the fork blade.
Aiming pallets along the forks.



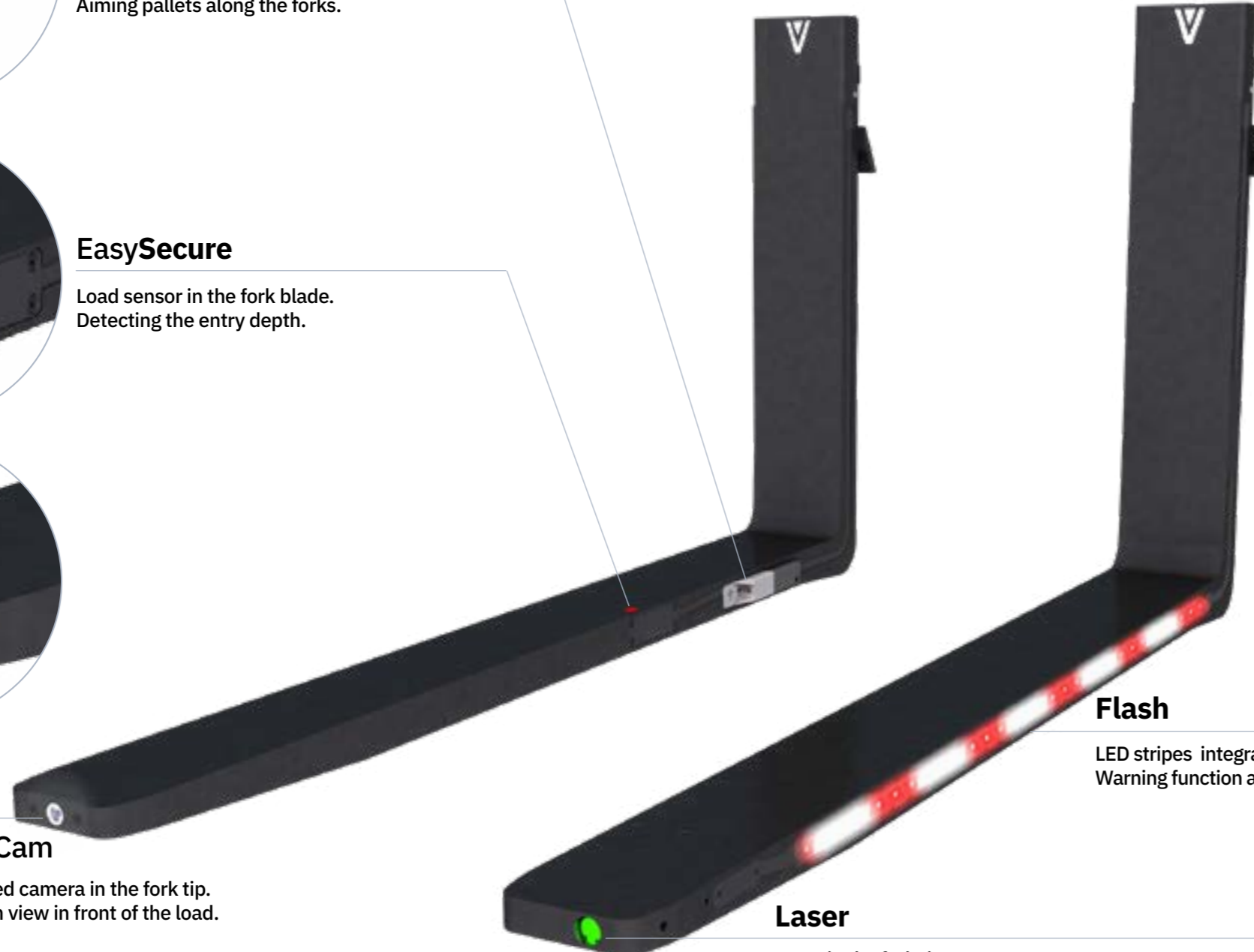
EasySecure

Load sensor in the fork blade.
Detecting the entry depth.



FrontCam

Integrated camera in the fork tip.
Optimum view in front of the load.



Flash

LED stripes integrated in the fork blade.
Warning function and entry depth function



Laser

Laser in the fork tip.
Precise targeting of load carriers.



Video SmartFork[®]

FrontCam

View ahead the load

The integrated **FrontCam** in the fork tip offers the best views ahead the load. Obstacles are recognised immediately when the load is picked up, accidents and damages are prevented. In combination with the laser the load is precisely targeted and load pick-up is made easier.



Field of view extension



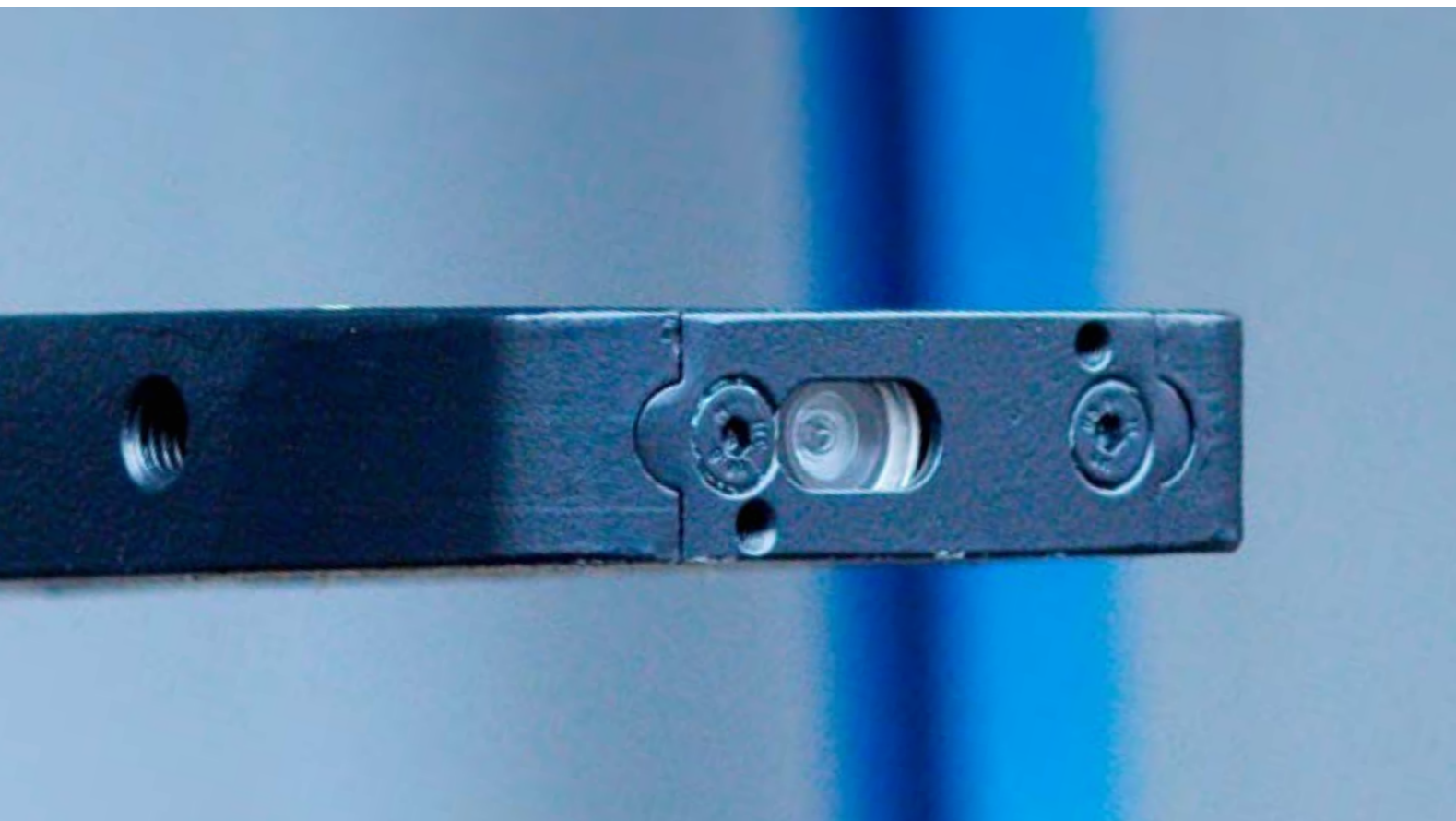
Precise targeting



Safe loading process



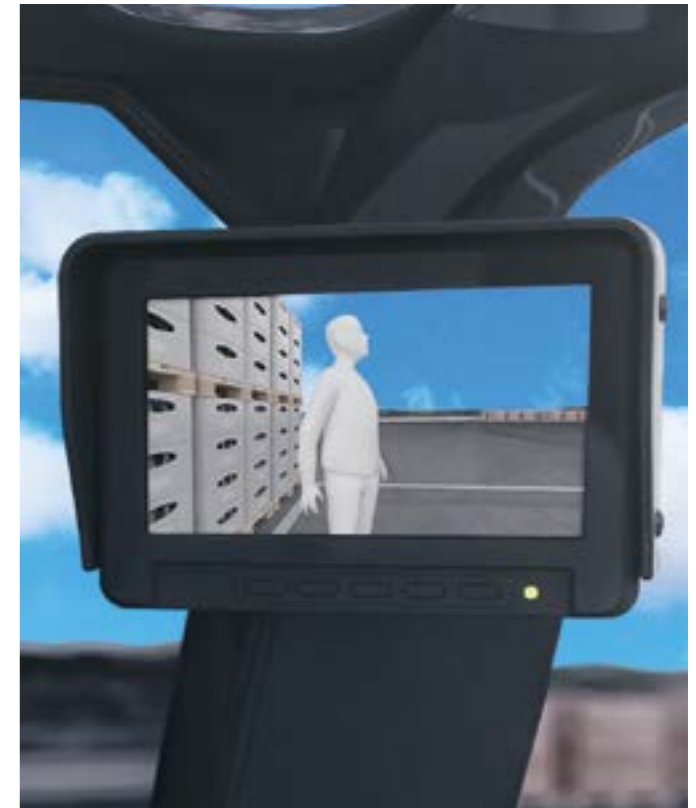
Person/ obstacle identification



Application FrontCam



Situation truck loading. Using **FrontCam** to see people in front of the load.



Monitor view in the cab with a view ahead the load when the pallet is picked up.

More safety...

... in combination with

✓ **SmartFork® Laser** (Page 10)



Video **SmartFork® FrontCam**



More information online

SideCam

Perfect view of the load

The **SideCam** laterally integrated in the the fork blade enables the forklift driver to target pallets along the forks and pick them up safely. Thanks to unique, semi-integrated camera installation the **SideCam** is optimally protected against damages during transport.



Both forks in the field of view



Aiming along the fork



Safe retraction in pallets



Reduced manoeuvring damages



WOW

Robust and durable thanks to partially integrated camera installation and clever cable routing

Application SideCam



Monitor view in the cab. Aiming along the fork.

More safety...

... in combination with

- ✓ SmartFork[®] FrontCam (Page 6)
- ✓ SmartFork[®] Laser (Page 10)



Video SmartFork[®] SideCam



More information online

Laser

Precise targeting of load

The integrated SmartFork® Laser in the fork tip makes it easier to pick up loads. The laser appears as a green horizontal line on the load carrier so that the forklift driver can safely drive into the pallet pockets.



Simple load pick-up
in the warehouse



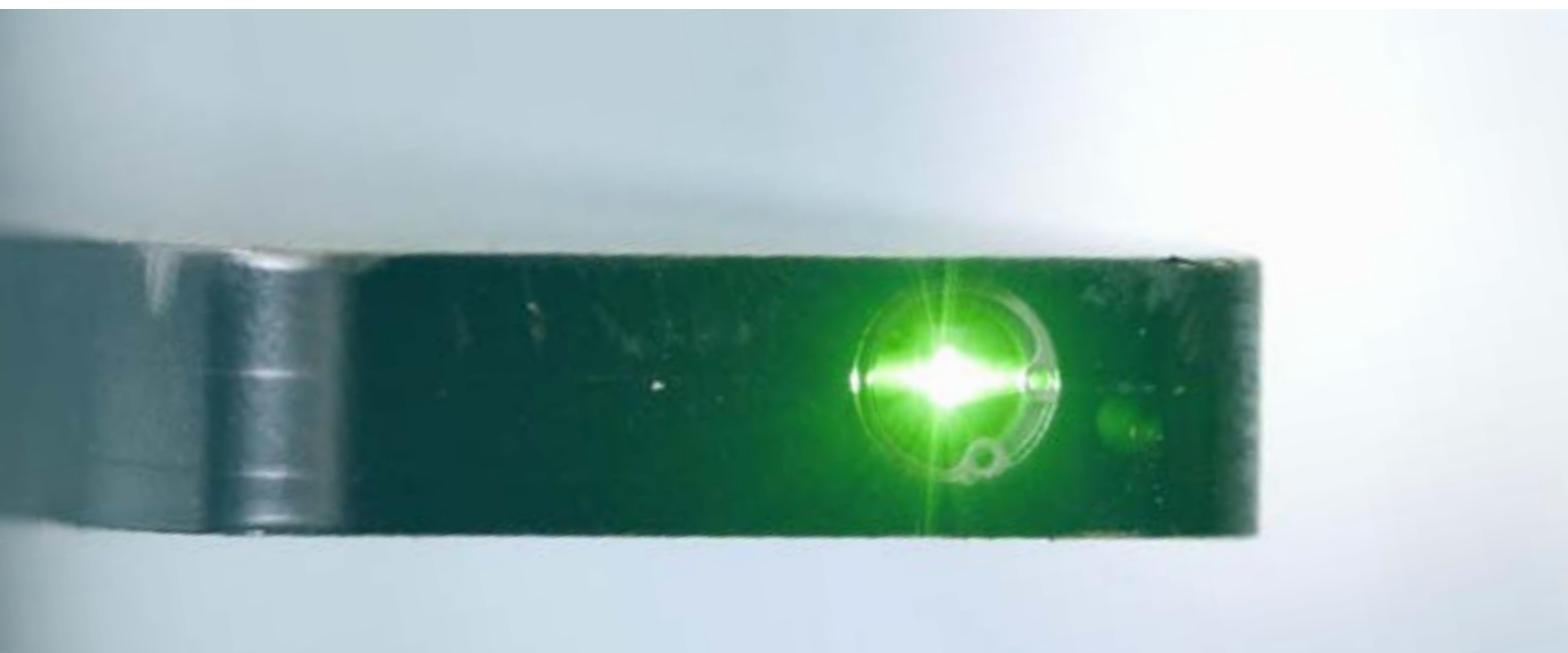
Precise targeting



Safe loading
process



Reduced manoeuvring
damages



- ✓ Laser safety class 1M, no risk of eye injuries
- ✓ Laser available in green (Standard version) or in red

Application Laser



Precise targeting. Green Laser in the fork tip.

More safety...

... in combination with

- ✓ SmartFork® FrontCam (Page 6)
- ✓ SmartFork® SideCam (Page 8)



Video SmartFork® Laser



More information online

EasySecure

Precise entry depth detection

The integrated light sensor in the fork blade (at 800 mm from the fork tip) enables safe detection of Euro pallets stored lengthways or crossways when picking up goods. SmartFork® EasySecure can be individually adapted to up to 3 load carriers. For removing load in block storage, the light sensor variant in the fork tip offers safe handling so as not to damage or lift the pallet behind.



Determine the entry depth



Recognising pallets stored lengthways or crossways



No damage to pallets behind



LED signal via display in the driver's cab



Application EasySecure



EasySecure sensor for safe pick-up of transverse or longitudinal stored pallets. Determine the entry depth at unmanageable heights.



EasySecure sensor in the fork tip. Determine the entry depth when pallets standing one behind the other. The load behind is not damaged or lifted.



LED-Display in driver's cab. If the LED in the driver's cab lights up red, the entry depth is reached.

More safety...

... in combination with

- ✓ SmartFork® FrontCam (Page 6)
- ✓ SmartFork® SideCam (Page 8)



Video SmartFork® EasySecure



More information online

PremiumCam

Always the right camera perspective

SmartFork[®] PremiumCam is a combination of **FrontCam**, **SideCam** and **EasySecure** in one fork pair. When loading and unloading goods, EasySecure automatically switches from the **FrontCam** to the **SideCam**. The forklift driver always has the best camera perspective in use.



Automatic switching from **SideCam** to **FrontCam**



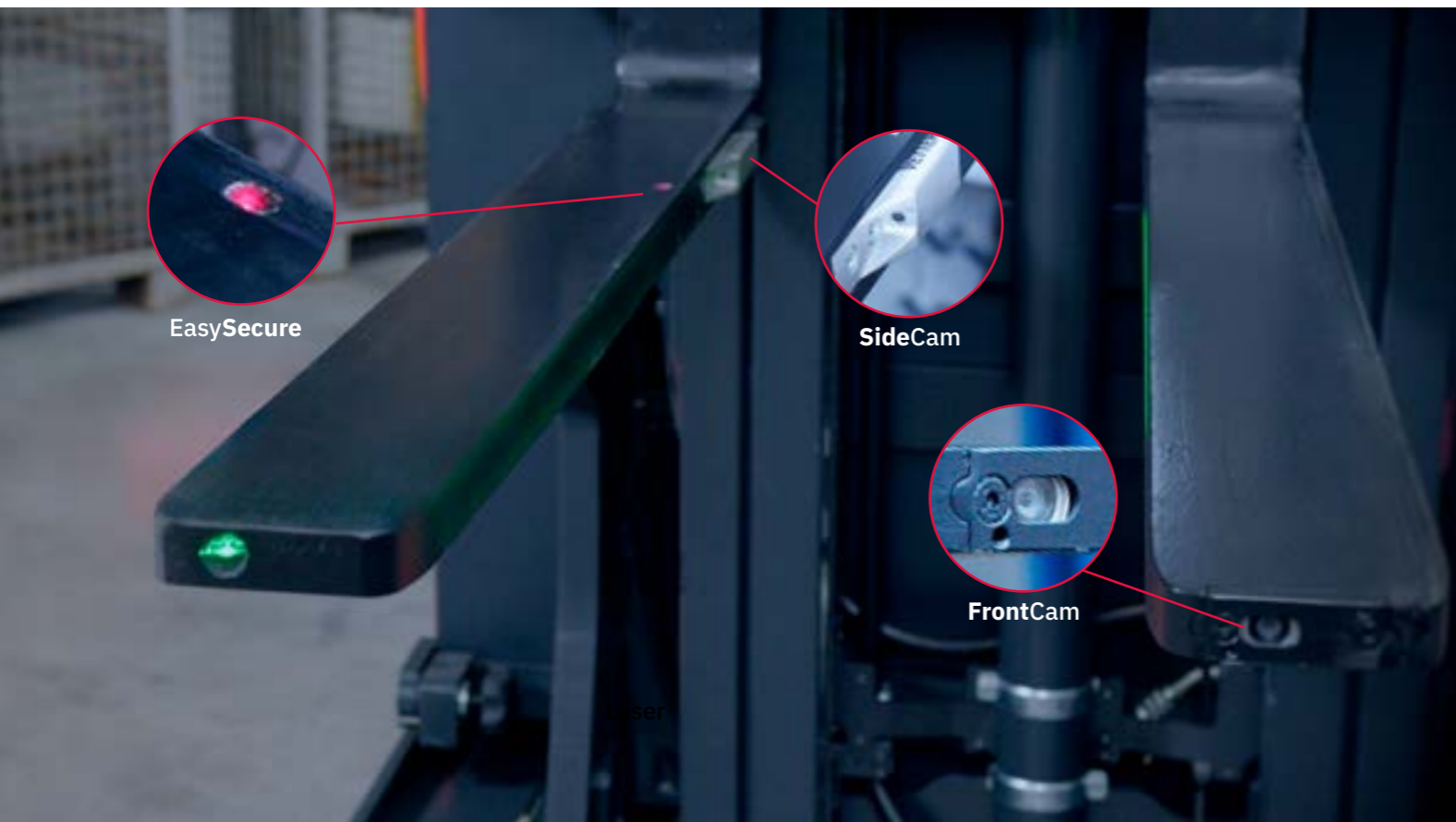
Reduced manoeuvring damages



Precise targeting



Person/ obstacle identification



Application PremiumCam

Monitor view in the cab. Automatic switching from **SideCam** to **FrontCam** as soon as the EasySecure sensor in the fork blade is occupied with the load.



SideCam – Monitor view in the cab. Aiming along the fork.



FrontCam – Monitor view in the cab with a view ahead the load. View through the pallet pocket when the pallet is picked up.

More safety...

... in combination with

✓ SmartFork[®] Laser (Page 10)



Video SmartFork[®] PremiumCam



More information online

Flash

Entry depths and warning function

The LEDs integrated outside in the fork blade make the forklift visible from a distance - even in dark environments.

The LEDs inside the fork blade may be programmed and used to determine the entry depth in order to pick up load carriers safely and without causing damage.



Visibility in cluttered,
dark environments



Improved occupational
safety



Reduction of
accidents



Safe loading of pallets
standing in a row



Application Flash



LEDs sideways integrated in the fork blade. Warning function in cluttered situations.



LEDs inside the fork blade. Freely programmable for determining the entry depth.

More safety...

... in combination with

✓ SmartFork[®] EasySecure (Seite 12)



Video SmartFork[®] Flash



More information online

SmartFork[®] on tour

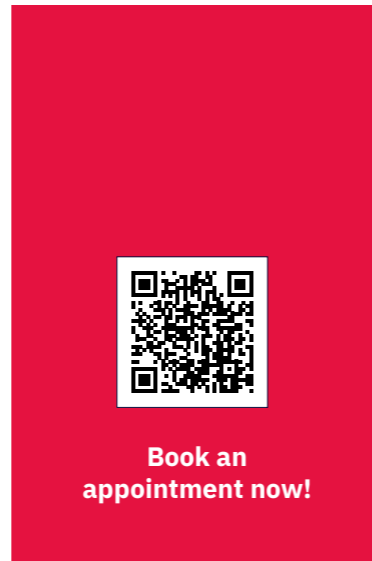
Assistance systems live on site

The possible uses and designs of the SmartFork[®] are as varied as the applications for which it is used. VETTER offers you the opportunity to experience the SmartFork[®] live on site. Our service technician will fit the SmartFork[®] directly to your forklift truck so that you can immediately recognise the advantages of the SmartFork[®] in use.

✓ Testing SmartFork[®] under real conditions

✓ Combinations of different SmartFork[®] applications

✓ The right SmartFork[®] solution for your application



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