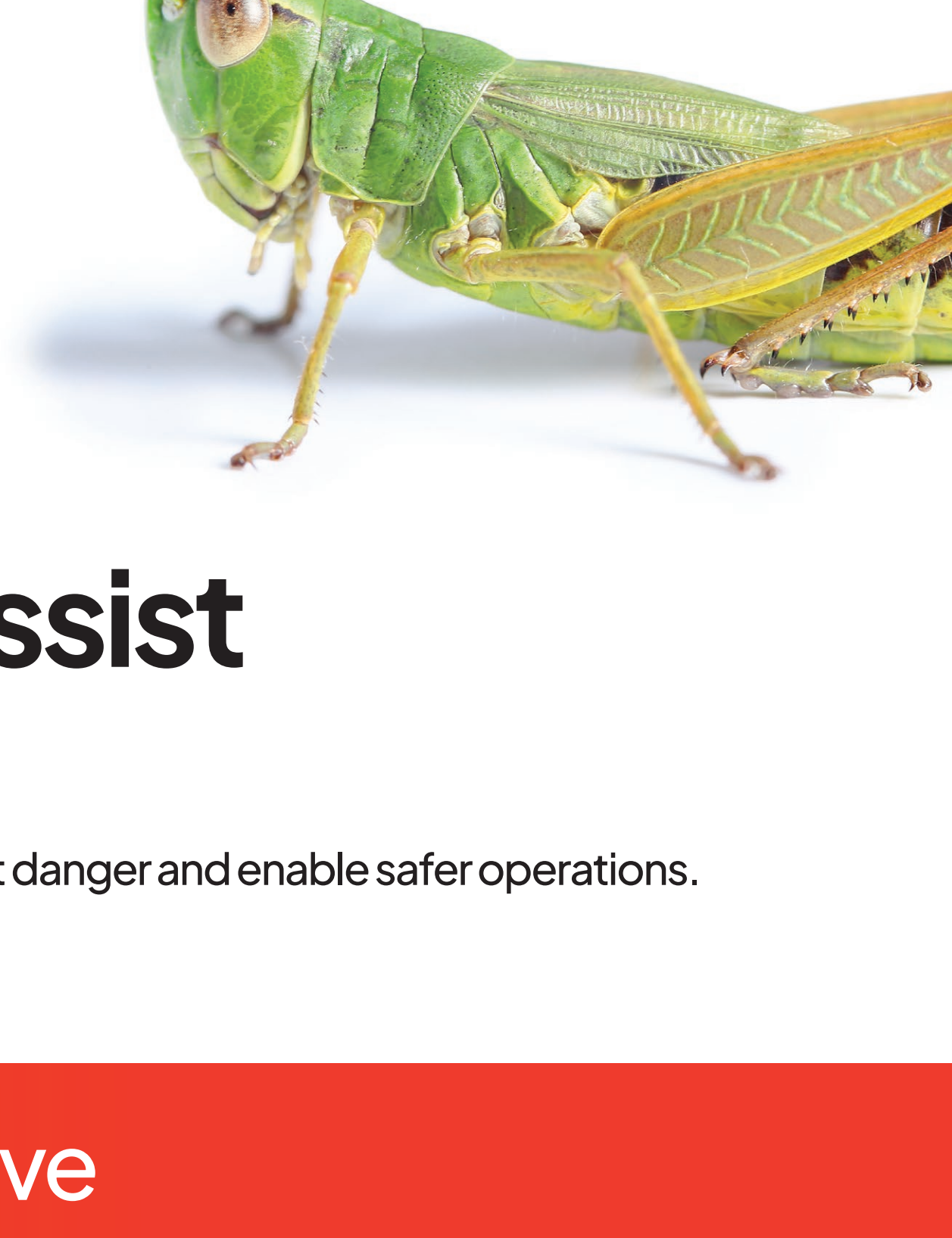


How do crickets detect danger?

They have evolved small hairs that can detect the air current of a nearby frog opening its mouth.

Safety. Evolved.



Safety-Assist Retrofits

Crane adaptations that detect danger and enable safer operations.

Adapt and thrive

Konecranes is the premier port services provider to brownfield terminal developments. Our range of retrofit products will enable your fleet to adapt to a fast-changing environment. Welcome to your evolution.



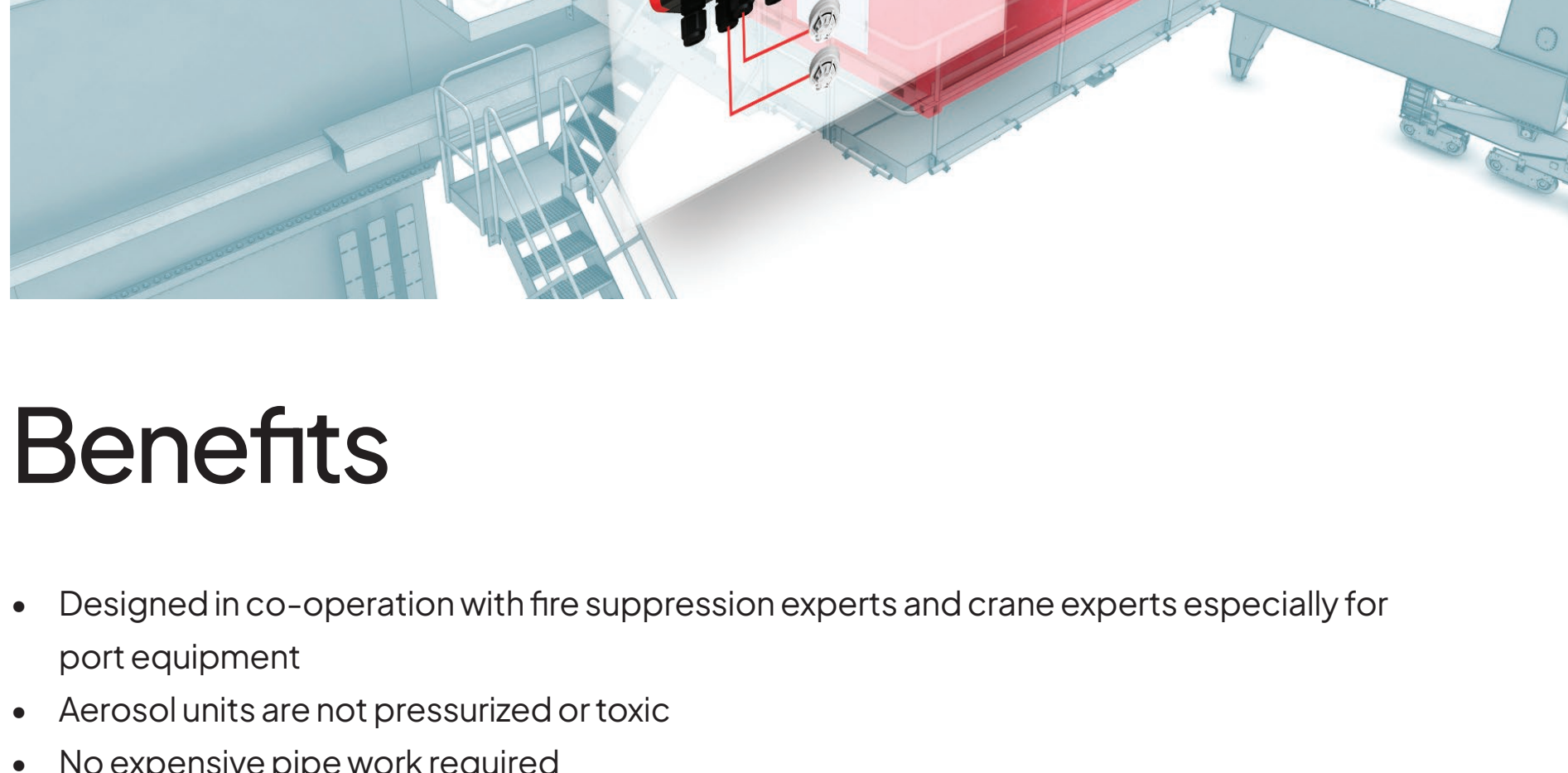
AB
Any Brand

With some limitations these products can be retrofitted to any other crane brand.



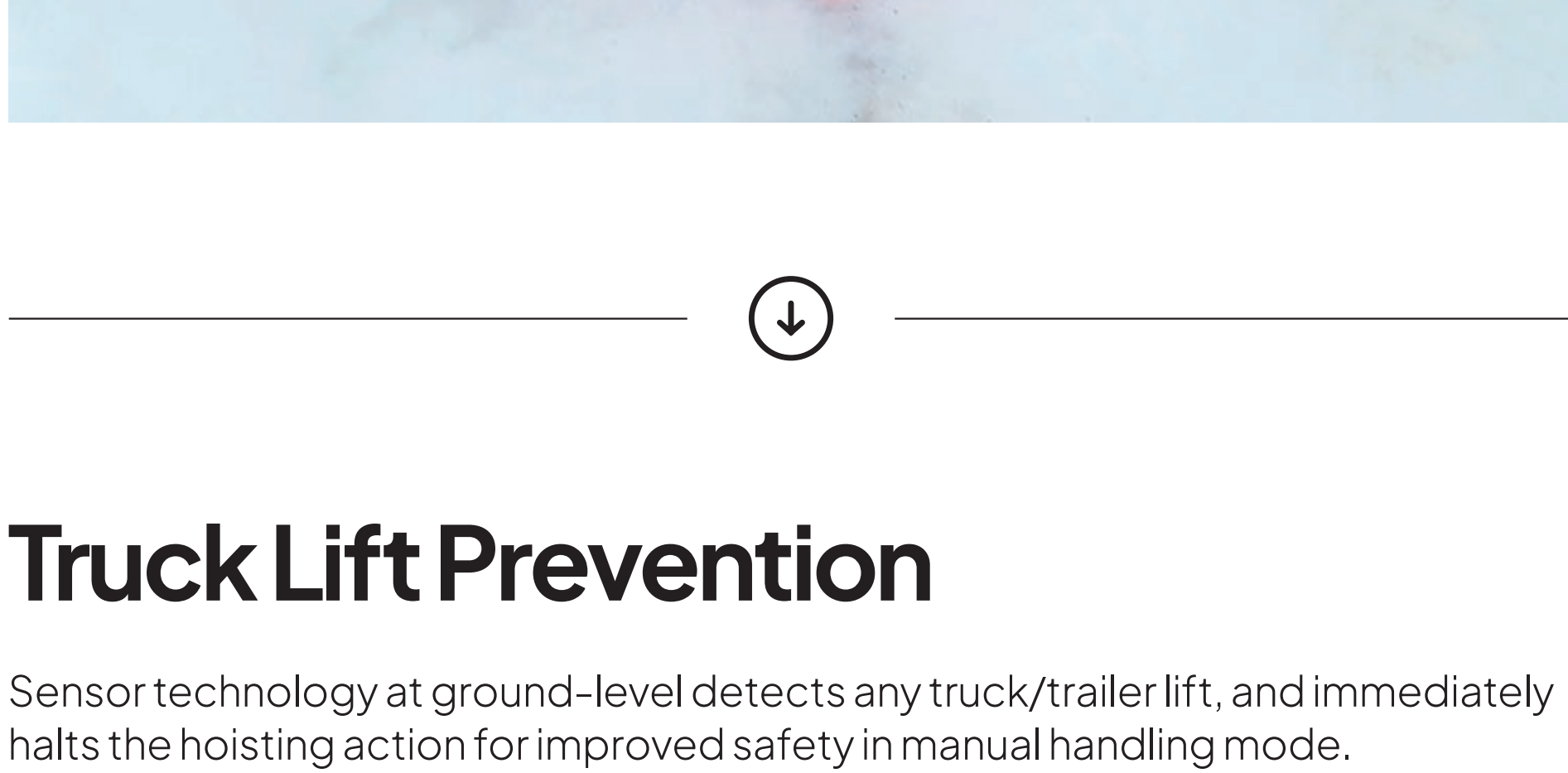
Fire Suppression System

Automatically detect and extinguish critical area fires.



Benefits

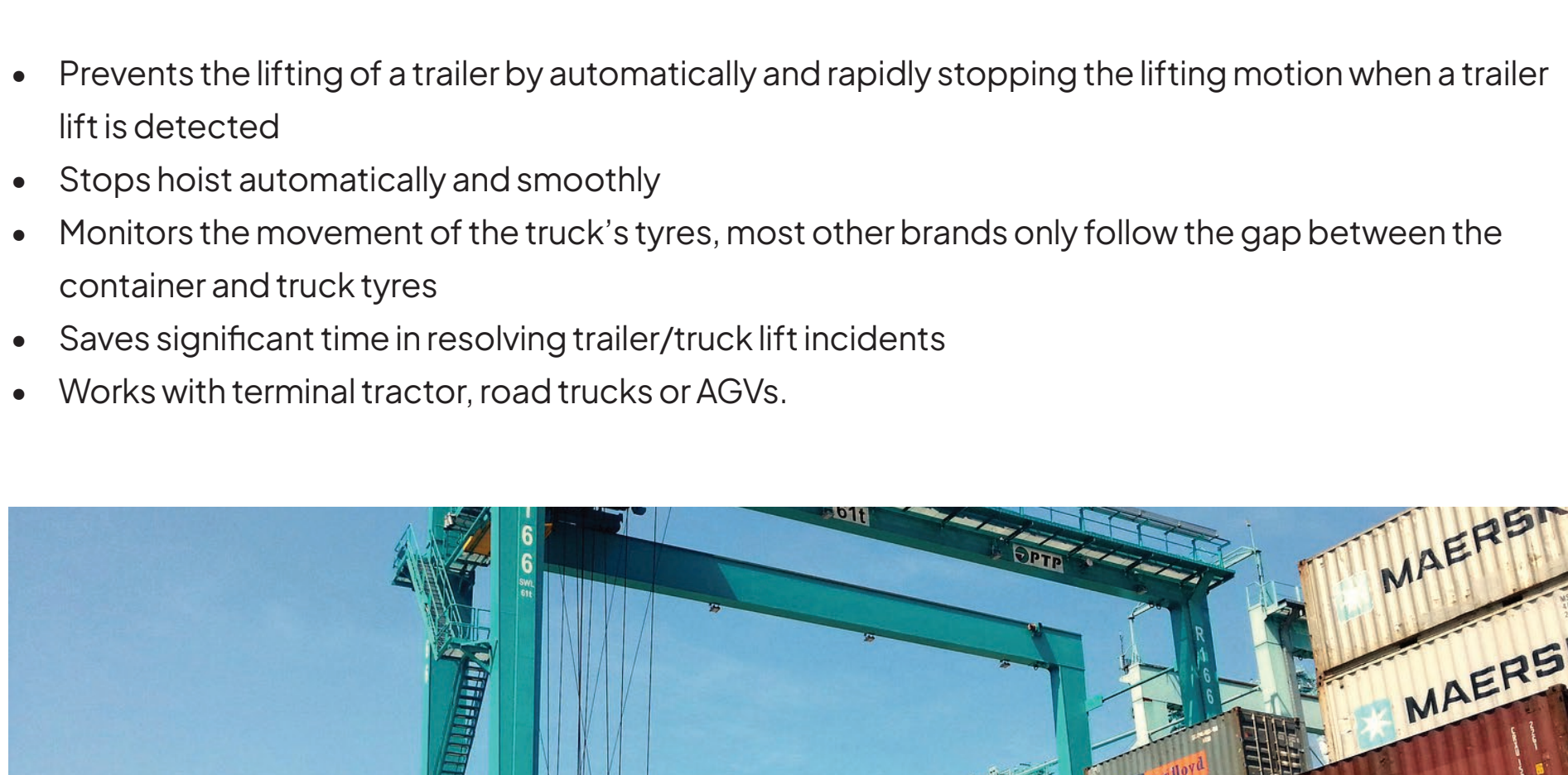
- Designed in co-operation with fire suppression experts and crane experts especially for port equipment
- Aerosol units are not pressurized or toxic
- No expensive pipe work required
- Can be installed inside engine and generator rooms, limiting fire spread
- Fully automatic and autonomous system of activation
- Backup power supply via UPS
- Require far less maintenance compared to other conventional systems
- Aerosol is not harmful to humans or animals



Truck Lift Prevention

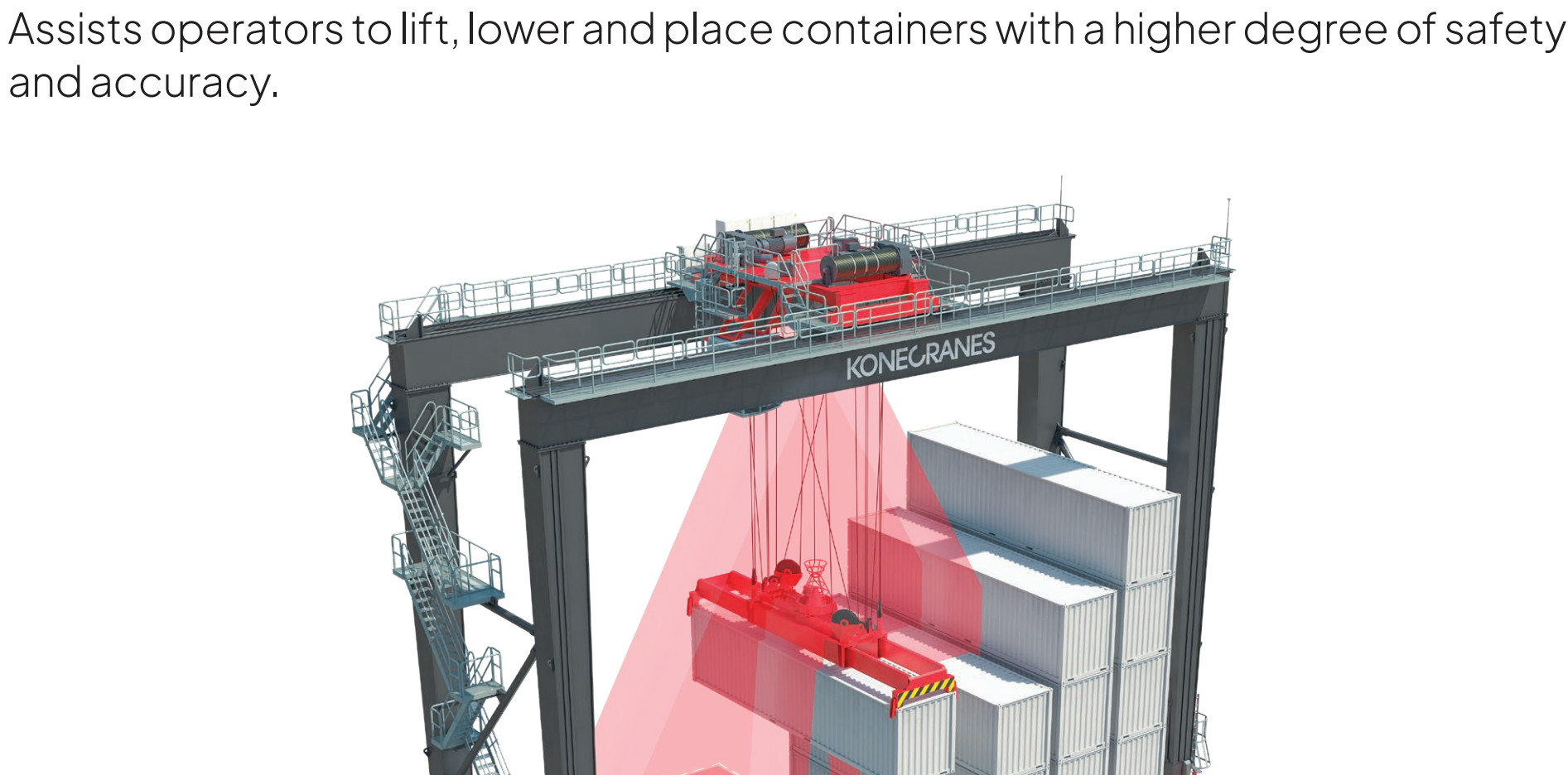
Sensor technology at ground-level detects any truck/trailer lift, and immediately halts the hoisting action for improved safety in manual handling mode.

Works by detecting the trailer wheels



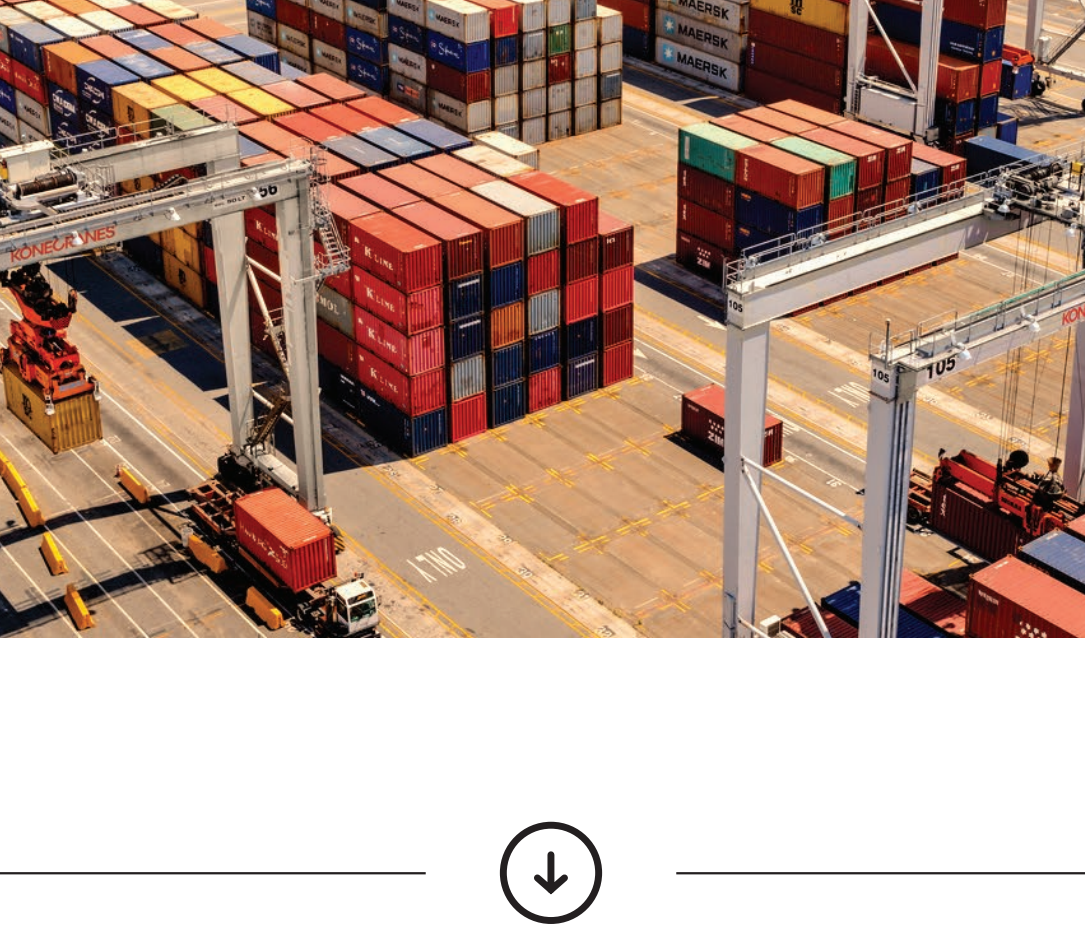
Benefits

- Prevents the lifting of a trailer by automatically and rapidly stopping the lifting motion when a trailer lift is detected
- Stops hoist automatically and smoothly
- Monitors the movement of the truck's tyres, most other brands only follow the gap between the container and truck tyres
- Saves significant time in resolving trailer/truck lift incidents
- Works with terminal tractor, road trucks or AGVs.



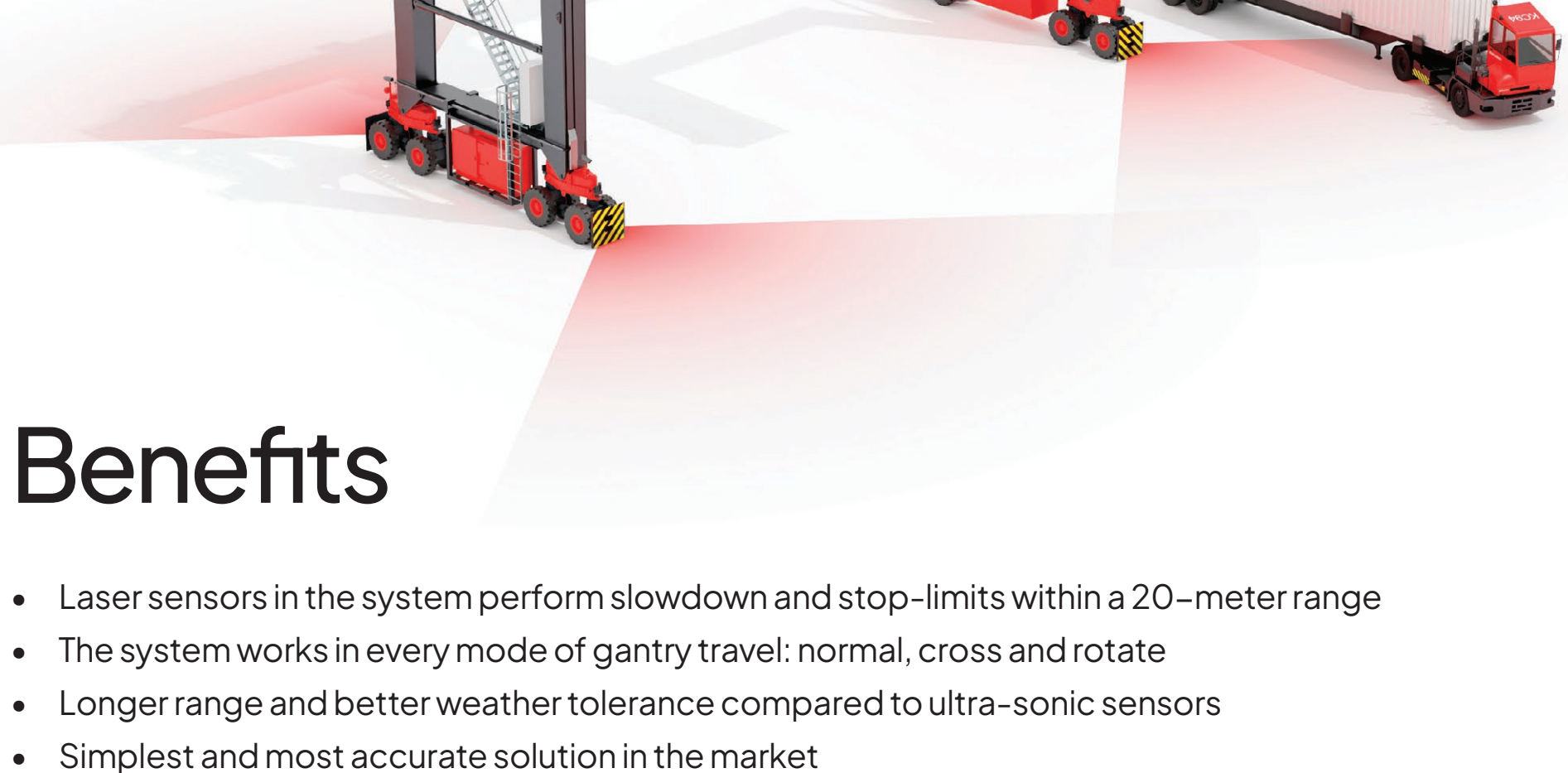
Stack Collision Prevention

Assists operators to lift, lower and place containers with a higher degree of safety and accuracy.



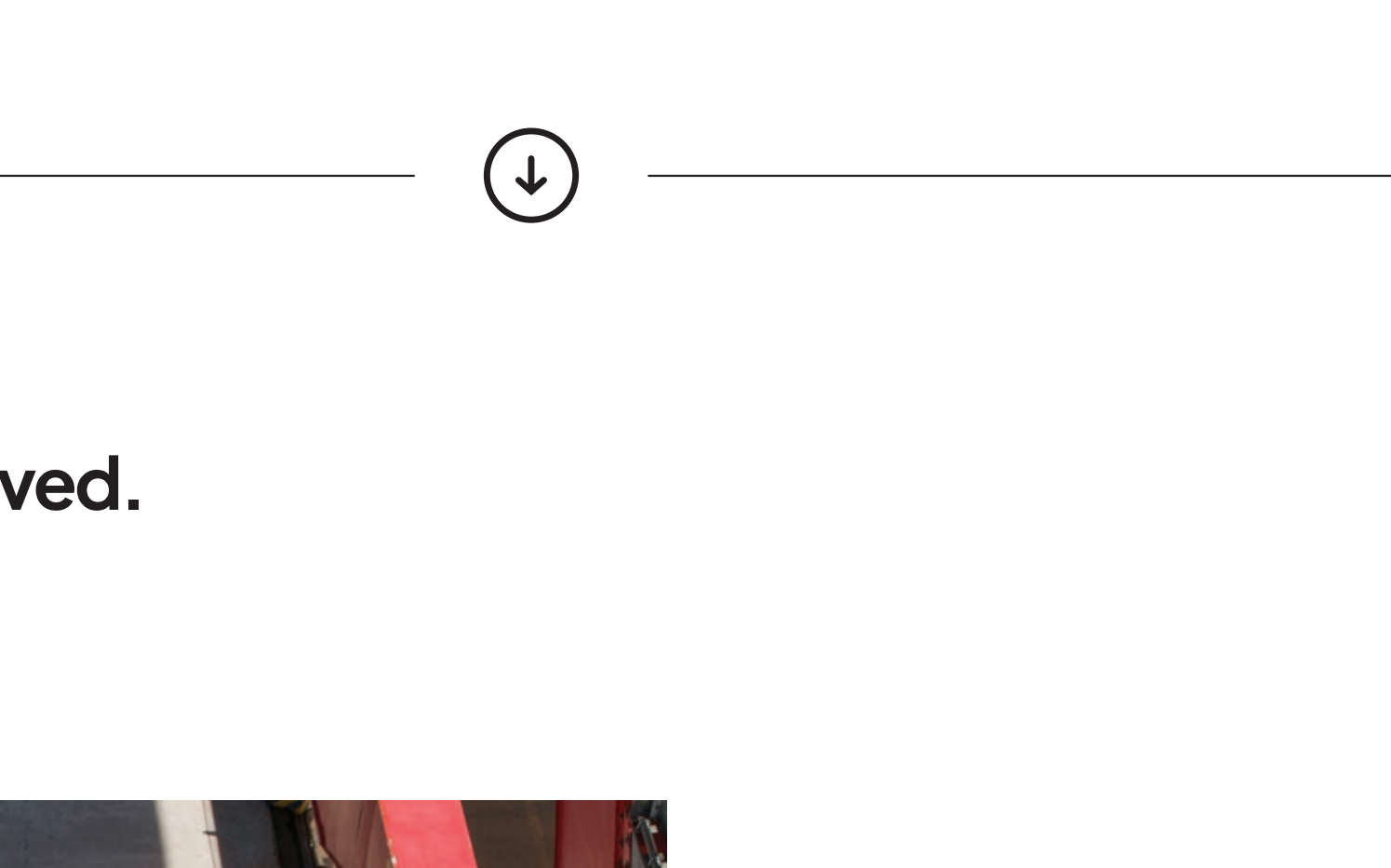
Benefits

- Prevents container collisions and knock-downs as the trolley moves towards the bay
- Prevents unsafe loading in the mixed bays
- Works with both loaded and empty spreaders
- Allows for fine positioning
- Operator can navigate container in bad weather and around stacks of uneven height
- Easy to use and maintain: only uses electrical components so only sensor is required.



Gantry Collision Prevention

Assists in avoiding crane-to-crane and crane-to-obstacle collisions.



Benefits

- Laser sensors in the system perform slowdown and stop-limits within a 20-meter range
- The system works in every mode of gantry travel: normal, cross and rotate
- Longer range and better weather tolerance compared to ultra-sonic sensors
- Simplest and most accurate solution in the market
- Highly resistant to adverse weather.

