

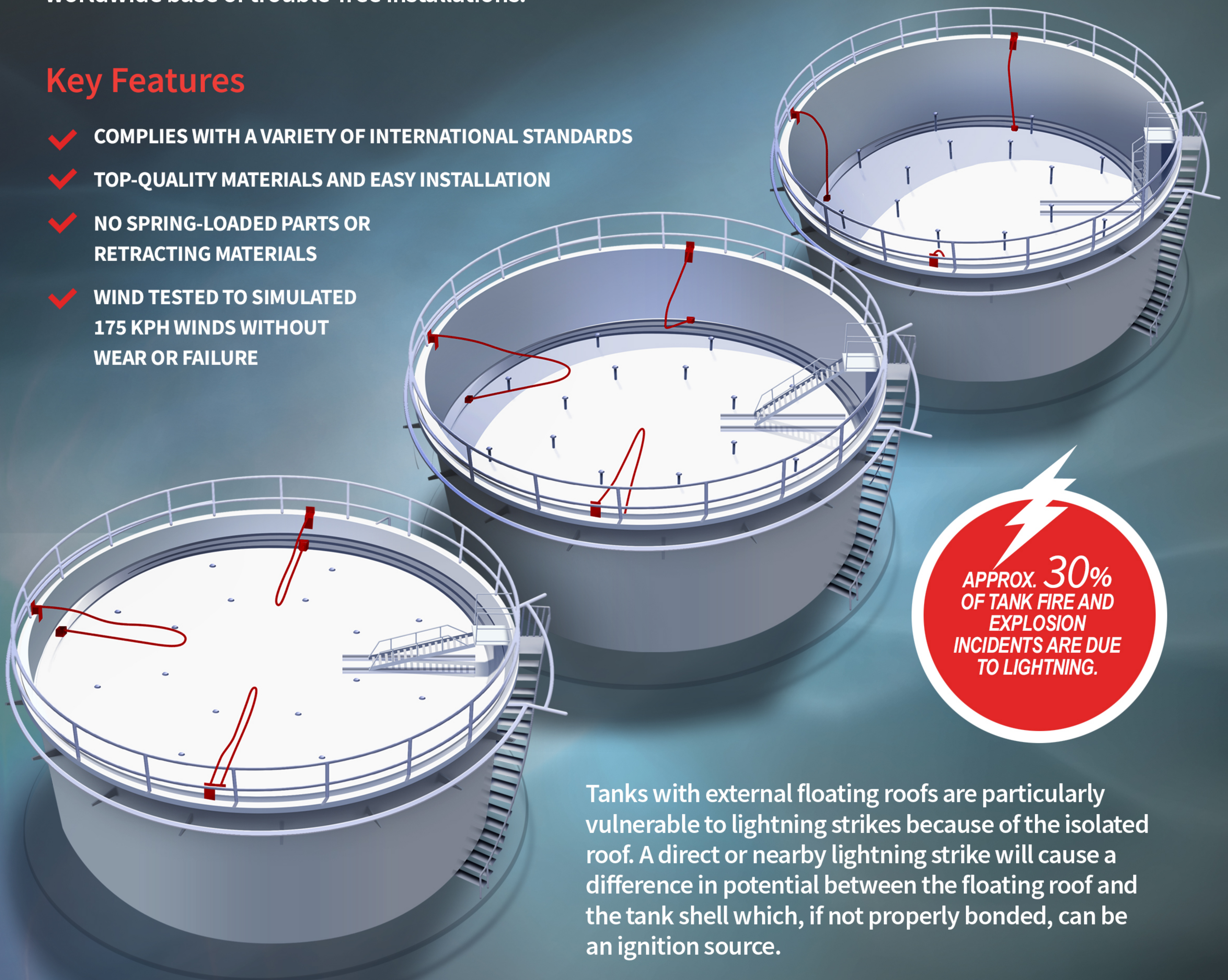
MOVEABLE ARM GROUNDING SYSTEM

Lightning protection for floating-roof tanks

The Movable Arm Grounding System (MAGS) is a patented bypass conductor system for external floating-roof tanks. It is a simple, reliable, gravity-powered system. It is easy to install and has a worldwide base of trouble-free installations.

Key Features

- ✓ COMPLIES WITH A VARIETY OF INTERNATIONAL STANDARDS
- ✓ TOP-QUALITY MATERIALS AND EASY INSTALLATION
- ✓ NO SPRING-LOADED PARTS OR RETRACTING MATERIALS
- ✓ WIND TESTED TO SIMULATED 175 KPH WINDS WITHOUT WEAR OR FAILURE



APPROX. 30%
OF TANK FIRE AND
EXPLOSION
INCIDENTS ARE DUE
TO LIGHTNING.

Tanks with external floating roofs are particularly vulnerable to lightning strikes because of the isolated roof. A direct or nearby lightning strike will cause a difference in potential between the floating roof and the tank shell which, if not properly bonded, can be an ignition source.

Floating-roof tank with Moveable Arm Grounding System



KETEK
GROUP

Results Driven.

Moveable Arm Grounding System

How it Works

Lightning becomes an issue when it strikes the floating roof, the tank or nearby. Ignition is not normally caused by the heat of the lightning channel igniting venting vapours. It is caused by arcing from the secondary effect of lightning.

A thunderstorm is an electrically charged cloud mass with a charge, usually negative, at its base. That charge induces an opposite charge, usually positive, on the surface of the Earth beneath it.

When lightning attaches to a tank or other object on the surface of the Earth, the charge at the point of attachment changes dramatically and almost instantly. The surrounding ground charge rushes toward the point of the strike. If that in-rush of charge crosses a gap, it may arc. If that gap is between the floating roof and the side of the tank shell, and there are flammable vapours present, those vapours may ignite.

The MAGS system provides preferred path for that charge to travel, preventing arcing and ignition.

The Complete Line of Lightning Master Products

Lightning Master is a full service, full spectrum static solutions and lightning and transient protection company, serving the oil and gas and chemical industries since 1984. Ketek Group is proud to distribute Lightning Master products in Canada.

With you every step of the way

Site survey and evaluation

- Our field engineers create a detailed report with the findings and recommendations for your site
- Our team of experienced engineers perform forensic analysis of lightning and static damage

System design

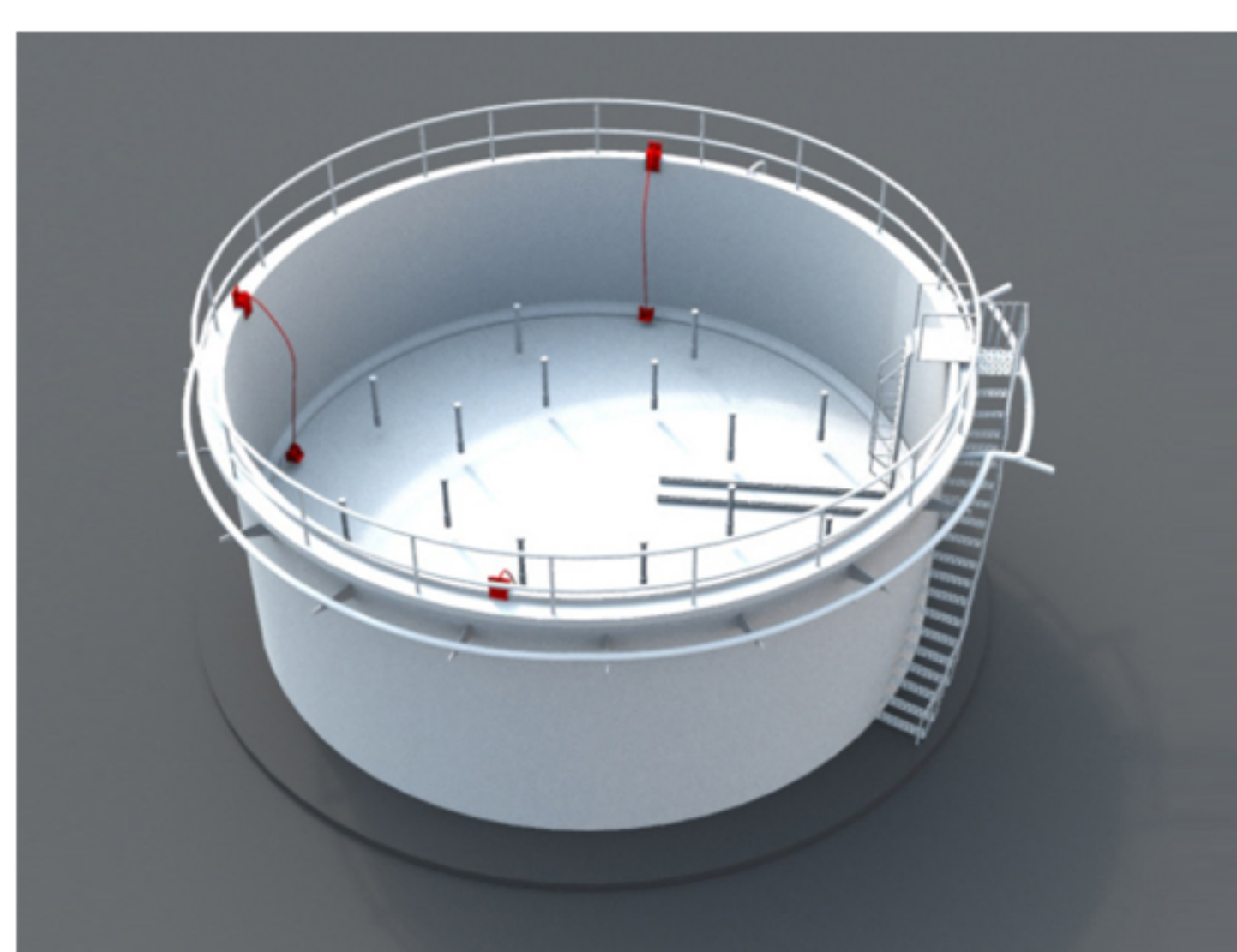
- We custom-tailor site-specific protection
- We help you write specifications and best practices that meet your needs

Products

- Bonding and grounding
- Surge protection devices
- Structural lightning protection
- In-tank static dissipators

Customer service

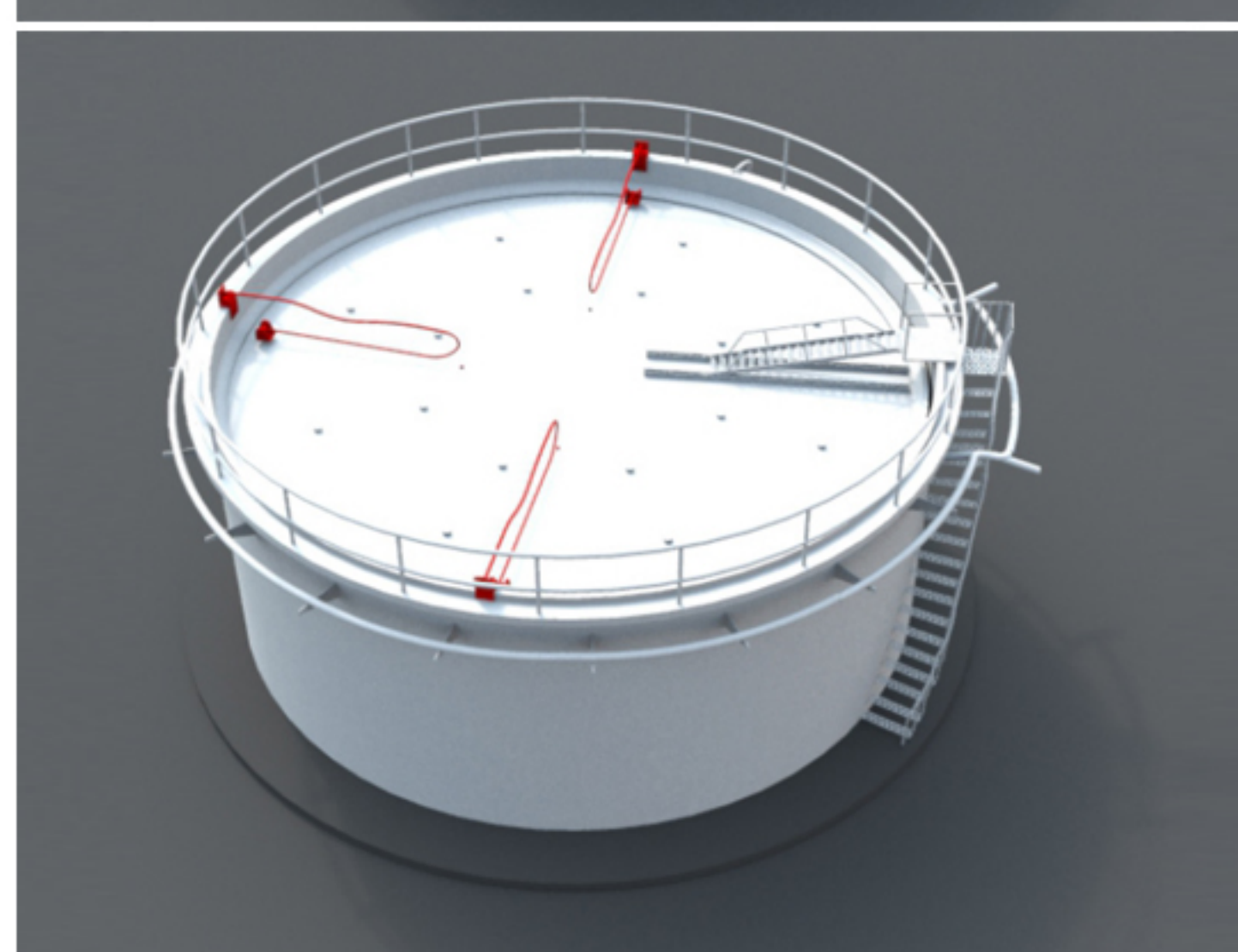
- Turn-key installation by Lightning Master-trained crews
- Training, supervision, and ongoing support of customer personnel or contractors
- Lightning Master approved installation contractors (in selected areas)



In-tank Static Drain
for above-ground
storage tanks



Streamer-delaying
air terminal for
structural lightning
protection



Moveable arm
grounding system
for external floating
roof tanks



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