

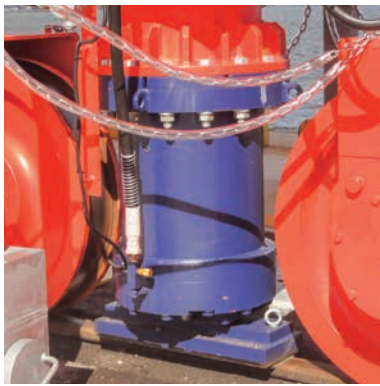
# Stop Runaway Accidents!

## Three Solutions:

**IRB** - Ican Rail Brake

**IWB** - Ican Wheel Brake

**IAB** - Ican e•Access Brake



**IRB** - Rail Brake

\*over 200 units installed worldwide



**IWB** - Wheel Brake

\*over 1500 units installed worldwide

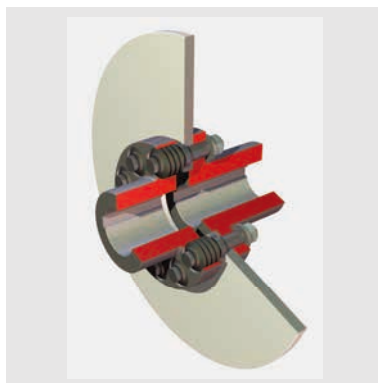


**IAB** - easy Access Brake

\*5000 units installed worldwide



**IAB** - easy Access Brake



**I-FLEX Coupling**

(Oil-free dry type)

Due to recent sudden wind gusts, container cranes break loose and many collision and collapse accidents have occurred.

Ican IRB, IWB and IAB prevent cranes from running away and drastically improve the safety factor.

We additionally provide brake overhaul services to maintain safety.

See our website for more details and information.



**Ican Company Ltd.**

**TOKYO OFFICE**

1-1-5, SHINTOMI, CHUO-KU, TOKYO, 104-0041 JAPAN

TEL +81-3-3552-7781 FAX +81-3-3555-0681

URL <http://www.ican.co.jp>



# Stop Runaway Accidents!

Ican has been the leading manufacturer of crane brake in Japan. We are paying special attention to the increase of crane runaway accidents caused recently by irregular climates prevailing in the world.

The following three are our proposals which have been presented, installed and in operation at major container terminals all over the world.



## Ican's Solutions:

### 1 The IRB - Ican Rail Brake

- Efficient brake pad pressing rails hydraulically
- Dynamically and Statically both offering braking efficiency
- Crane running away can be stopped
- Over 200 units installed and operational worldwide



### 2 The IWB - Ican Wheel Brake

- Can be installed in addition to existing running brake to increase overall total braking power
- Totally visual inspection provides easy maintenance
- Dynamical braking also extremely efficient
- Clamps directly to the wheel, not to the rail
- Over 1500 units currently installed and operational world wide



### 3 The IAB - Ican e-Access Brake

- Easy access provides easy visual inspection
- Easy access provides easy maintenance work
- Automatic brake centering and gap clearance adjusting system
- Over 5000 units currently installed and operational world wide



## Safety measures:

Conventional running brakes are coupled to electric motors and are normally totally enclosed which makes visual inspection and maintenance very difficult. In addition, together with a great number of bolts, which require heavy handling and adjustments may lead to a lack of attention to the brake pad wear down and eventually may lead to runaway accidents.

There exists several difficult points in addition to the above on the conventional installation of brakes for hoisting, boom hoisting and traverse equipment of container cranes as well. Namely the gear coupling between winch and electric motors need to be regularly greased and this grease may be thrown from the gears onto the brake disc and brake lining nearby causing a gradual deterioration in braking performance.

Hence, Ican offers a dry-type coupling called the I-Flex Coupling. The I-Flex Coupling required no greasing as conventional gear coupling do and have very good records of service worldwide.