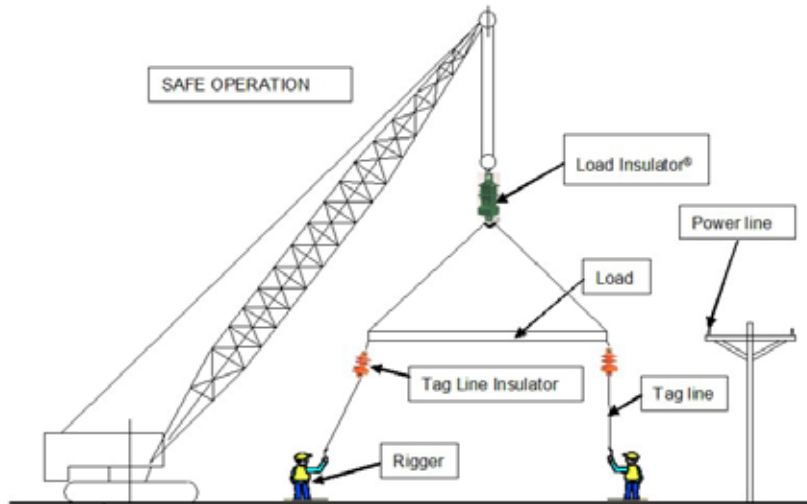




LOAD INSULATOR®



The Load Insulator® is a self-testing safety device that protects ground personnel, in contact with the load, from injury or death in the event of a crane making contact with overhead energised power lines.

- ✓ Remember you only need the lifting capacity of the item lifted.
- ✓ For permanently mounted installations the unit should match the cranes lifting capacity.
- ✓ Any size, configuration and voltage can be produced to special order.
- ✓ These units can be rented on a weekly basis, subject to availability. On returning the unit the onboard diagnostics will be downloaded and the information can be made available as part of your safety management program.

The Problem of Electrocutation

Accurate and consistent research shows that at least 100 crane power line contacts occur per year. Government and independent data agree that such crane power line contacts are consistently the largest single cause of crane fatalities over the last 25 years although the Federal regulations expressly prohibits a crane from contacting power lines. Operator training can modify the rate of fatalities but cannot stop the underlying causes of crane power line contacts. The cause is simply the human's inability to distinguish a power line as a visually impaired object. Crane operators do not intentionally kill their co workers or disobey Federal regulations. When contact is made with power lines the 'fortunate' people are killed outright, however normally they die a slow and painful death.

LOAD INSULATOR®

In 50% of incidents riggers have survived with horrendous injuries with loss of limbs, severe burns, internal tissue damage, and paralysis. These deaths and injuries are sustained by the riggers, who are in contact with the load being lifted when part of the crane contacts an overhead power line and the current passes through the rigger to ground. The roadside distribution, line to line, voltage is typically less than 33,000 volts. This results in a line to ground voltage of 24,000 volts to which the rigger would be exposed.

The crane driver positioned in a cab is safe from electrocution as the cab acts as a "Faraday cage" and the voltage flows around the cab to ground. If the crane driver leaves his cab and exits the crane he puts himself in the same danger as the oiler. The oiler who may be leaning on the crane is totally unprotected and usually killed. At present these account for 15% of crane power line contact fatalities and unfortunately there is no solution at present to save these workers - however 85% can be saved using our Load Insulator®.

Load Insulator® was launched in 1997 and subsequently considered by the legal profession and International Experts as being able to prevent the damaging effects of a crane power line contact to a rigger. The Load Insulator® is a life saver having no less than seven patents, several design

awards and accredited in 2000 as a "Millennium Product".

It was designed and developed over five years to be a high performance insulating component. This component has the engineering strength to perform in the most demanding of conditions. Unlike any other insulating links the Load Insulator® contains a "Black Box" monitoring system that performs three principal tasks:

- ✓ To self-test the integrity of both internal insulation and external tracking every day at 5.00 am EST.
- ✓ To record date and time of high voltage contact and self-test failure.
- ✓ To emit audible warnings if the unit is faulty or requires to be returned for inspection or for annual re-certification.

Each unit must be returned on an annual basis to be re-tested and certified. During this process the "black box" recorder is downloaded and the data made available to the owner of the unit. This data will include the time and date of any power line strike. There is normally a charge to the customer for this annual re-certification.

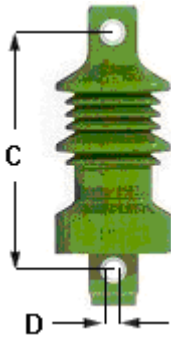
Our products are manufactured in modern facilities by highly experienced personnel to the international quality assurance standard ISO 9000.

LOAD INSULATOR®

Each product is built to an International Manufacturer's Standard CPLSO 14 ensuring each and every unit will provide total satisfaction and performance. Each unit is warranted for five years against failure due to fault of manufacture or design.

These are safety devices that will save lives and potentially save money for the responsible crane operator. Legal precedents, and subsequent insurance company reaction, will undoubtedly penalize those who choose not to fit the product.

No crane should operate close to power lines without the protection of the Load Insulator® or Tag Line Insulator, **protect your people, protect your business with sound engineering.**



MODEL	Pin diameter	Hole to Hole	Weight
10tv1	1 1/2"	24"	106 lb
25tv1	2"	28"	211 lb
55tv1	3"	34"	471 lb
120tv1	4"	45"	1232 lb

MECHANICAL PERFORMANCE	
Safe Working Load, S.W.L	10t , 25t , 55t , 120t (tonnes)
Proof Test Load, P.T.L	20t, 50t , 110t , 180t (tonnes)
Ultimate Load	500% of Safe Working Load
Duty rating	ISO M5 duty rating
ELECTRICAL PERFORMANCE	
Class	2
Rated Operating Voltage, R.O	25kV rms
Rated Test Voltage, R.T.V	32 kV rms
Rated Leakage Current, R.L.C	Less than 2mA at 25kV
Operating Temperature	-40°C to +60°C
Lightning Strike	Not lightning proof
Warning Device	Via Onboard Diagnostics

Supplier:

www.insulatus.com