

March 2013

## Mobile Substation Transformers

Power outages can be quite costly. A large industrial facility may have multiple distribution voltage levels as well as a number of low voltages supplying a wide variety of loads. Although transformers are by nature extremely reliable, failures do occur. It is not feasible to inventory back-up transformers for all contingencies. A logical and relatively low cost alternative is a custom designed mobile substation.

In other locations, the need for temporary power also justifies the need for a mobile substation.

Anyone familiar with Pacific Crest Transformer's history understands that "custom design" is standard for the company. This is particularly true in the case of mobile substation

transformers since each has been uniquely designed incorporating each customer's specific needs.

The above picture is merely one of *many* possible configurations. PCT Engineering has extensive experience in providing technical and creative solutions for complex challenges.

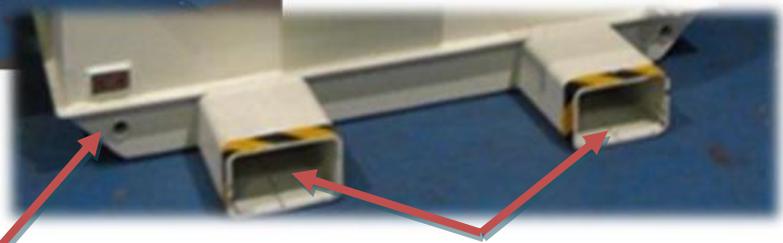


### **Pacific Crest Transformers**

300 West Antelope Road - Medford, Oregon 97503

Tel : (541) 826 - 2113 Fax : (541) 826 - 8847

Multiple high and low voltage windings can be supplied to cover all site load requirements. High voltage terminations may be live front, dead front OR both. The low voltage side may be supplied with circuit breakers.



**Skid base & pulling eyes**

**Forklift provisions**

This transformer is fitted with forklift provisions as well as a stainless steel skid with pulling eyes. Such features are common on mobile substations utilized in mining applications. It allows the transformer to be easily repositioned as necessary as trenching and digging equipment advances. The transformer can be designed to operate in a tilted position to accommodate for uneven surfaces.

Corrosive environments can be accommodated via the use of stainless steel tanks, hardware, and radiators. A variety of corrosion resistant coatings is also available.

The tanks and compartments are constructed of heavy gauge material. The liberal use of seam welded tank stiffeners insures against tank deformation.

Heavy duty core clamps are incorporated in the core/coil assembly. All internal buss work and wiring is secured through the use of hardwood blocking.



Radiator cages can be provided to guard against accidental damage while still allowing for adequate cooling.

Regardless of the specific transformer application, Pacific Crest can provide the perfect solution.

