

Knuckle Boom

Stiff Boom

## Stability Testing

Custom Load Charts \$1435

180°/360° Confirmation \$750

## Truck Mounted Crane Stability Certification

By Falcon Equipment in Association with SKC Siu Engineering

### Why Stability Test?

When a crane manufacturer designs a crane they have no prior knowledge of the type of vehicle on which the crane will be mounted. The manufacturer supplied load charts are found by considering the structural strength of the crane to hold a given load. The load carried by a truck-mounted crane may have to be reduced due to the stability of the system. The primary factors that determine stability are weight and dimensions of the truck, dimensions and locations of any outriggers/stabilizers and mounting location of the crane itself.

It is mandatory that all truck-mounted cranes must be tested for stability, in accordance with BC Occupational Health and Safety regulation Section 14.2(5)(a)&(c). For this reason we perform tests on all new installations, as well as offering the service to anyone who requires it for an existing crane.

### The Test Process

The primary purpose of the stability test is to find any areas in which the load must be reduced (reduced capacity zones) and how much it must be reduced. The test process, developed in partnership with SKC Siu Engineering, requires the crane lifting the maximum rated load at different extensions and slewing angles. At all times during the test truck is carefully monitored for any signs of instability.

### Test Personnel

As the test involves pushing your crane to the limits of stability you need to be sure that your crane is in capable hands. When choosing a crane operator we look for a number of factors; all of our test personnel have a minimum of five years operating experience, fantastic attention to detail and a proven track record of excellence in the workplace. All test personnel undergo extensive training, both theoretical and practical, by our partners at SKC Siu Engineering so that they know exactly what to look for when testing your crane. This, combined with the fact that we have tested and certified hundreds of cranes, means that you can be confident in the ability of our operators at all times.

### The End Product

If required, a certified custom load chart will be developed by SKC Siu Engineering using the test data. The charts have been designed to be easily read and show clearly any reduced capacity zones, and the reduced load required. The test certificate is valid as long as the crane and truck remain in the tested configuration.

