USER GUIDE

UiA Boom Motion Experimental setup

The setup can be controlled either by the manual handles on the back of the rig or by Labview software (connect to CompactRIO via RJ45: IP 192.168.90.3, Subnet: 255.255.255.0 – use manual IP in the form: 192.168.90.XXX)

## Startup procedure:

1. Check the wanted valve section of the setup is connected both hydraulically and electrically.
2. Make sure the setups **emergency stop** is pushed **down**
3. Plug the **power cord** from the setup into an power outlet
4. Turn on the **control system** – switch on the electric control cabinet (ON/OFF)
5. Turn on the **HPU** (wired remote outside the hydraulic room)
6. Turn the **flow on** – handle on the wall behind the setup (**set to 5-6**)
7. Adjust the HPU **pressure level** with the small handle (next to the analog pressure gauge) on the wall behind the setup (max 200bar – **180bar** works well)
8. The setup can now be operated in either manual or software mode.
9. Use setups **emergency stop** whenever the crane is not in use!

## Shutdown procedure:

Follow the starting produce in reversed order (In step 7: set the HPU **pressure level** to **50bar**)

## More information is found on the USB memory pen inside this electric cabinet. It contains:

* Electric diagram
* Hydrualic diagram
* Datasheets
* Labview example program (Basic program with displaying all sensor values, manual control of the valves and log of data)
* CAD Drawings