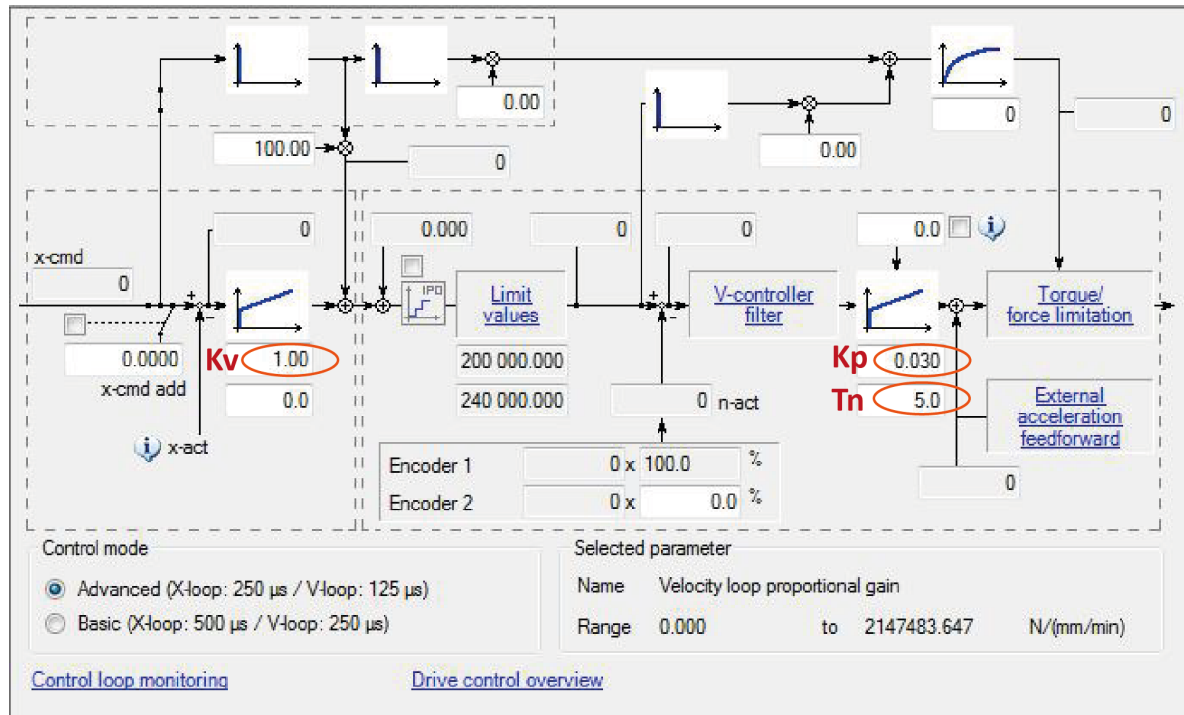


Linear-Axis Optimization with Bosch-Rexroth controller and Indraworks software

Optimize motion-controller for the PPU-E30 unit



- Connect Computer with Indraworks software to motion controller, using ethernet cable
- Start Indraworks DS software
- Open tree to desired axis like shown above
- Let the axis move reversely with very low speed (5-10 mm/s)
- Set Tn to 0 (zero). When axis is not moving anymore choose Tn=10.
- Increase Kp slowly, step by step until axis starts growling audible distinctly.
- Now decrease Kp slowly until stops growling
- Compute the half value of actual Kp + 10% and enter this value into the Kp tag in indraworks.
- Now set the Tn to 10.0.
- Decrease Tn slowly, step by step until axis starts growling audible distinctly.
- Now increase Tn until it stops growling
- Compute the double value – 10% of the actual Tn and enter the value into the Tn tag in indraworks.
- Take the Kv default value and increase it slowly, step by step until axis starts growling audible distinctly.
- Now decrease Kv slowly until stops growling
- Compute the half value of actual Kv + 10% and enter this value into the Kv tag in indraworks.
- Last but not least: Don't forget to save parameter-files from the motion controller to your computer, after you have finished optimisation and archive it.