Using the new filters in Composicad V1.8.21

For high angle helical winding on pressure vessels, you may get better results by turning off the Interpolation filter.

Don’t use the “Limit fiber payout rate” option for the typical pressure vessel.

These values are used by the Interpolation filter (even if the “Enforce” checks are off). Don’t use the “Enforce” checks.

Use either “Enforce minimum time between points” or “Enforce equal time” option, but not both. Don’t use the “Allow negative spindle”.

Use a value of 5-15 for the “Number of smoothing passes”.

Don’t use the “Enforce” checks.

Don’t use the “Limit fiber payout rate” option.
The new Smoothing Dialog – typically set both the Maximum Velocity and the Maximum Acceleration to 100%.
The Machine filters dialog in the Machine Definition Menu:

These values can be set for a particular machine and then used on all of the lamina by setting the “Use Machine Filters” check box in the Output Options dialog:
Check here to use the “Machine filter” settings.
Make sure to use enough segments in the mandrel:

Use at least 50 for the linear and dome segments – use 60-75 for the radial segments