

Measuring the entire stem profile

This procedure follows the same steps as in measuring single diameters. However, instead of closing the measurement dialog after obtaining the height and diameter data, the resulting data is added to the stem profile.

If you are going to measure stem profile from same position like is your position (position of devices) in map, you can use button “Use position”. Using device position and tree position first two steps of the measure process (1. Stem base and 2. Distance + Inclination) will be calculated. *Button “Use position” is active only when field DBH_mm is not empty.*

The stem profile is built diameter by diameter.

In the stem profile chart the results are dotted. An overview table of height/diameter data in the measurement dialog enables you to edit data interactively: points of the stem profile can be individually deleted.

In case of height measurement of slant trees the stem profile is corrected automatically.

Remote measuring of the entire stem profile

1. In the Trees form switch to the **Stem profile** form
2. Click the **Measure** button to open the “Measure remote diameter” dialog box
3. Measure the first **diameter** (see previous pages)
4. If you start to measure first diameter at breast height, click **Use DBH** to import DBH from basic data form
5. Click the **Add** button

You are automatically redirected to the next diameter measurement

6. Measure the inclination and read and type number of **ticks** for each diameter

7. Click the **Add** button
8. Click **Close** button to return to Stem profile form. The stem profile has been interactively drawn on the chart

The screenshots illustrate the following steps:

1. The user is in the 'Stem profile' form of the 'Trees' application.
2. The 'Measure' button is clicked, opening the 'Measure Remote Diameter' dialog.
3. The 'Stem base' step is completed, showing a distance of 6.08m and an inclination of -15.1°.
4. The 'Distance + Inclination' step is completed, showing a distance of 6.08m and an inclination of -3.9°.
5. The 'Diameter' step is completed, showing a diameter of 43mm and a tick count of 43. The 'Use DBH' option is selected.
6. The 'Next Diameter' step is shown, with a diameter of 166mm and a height of 1.23m. The 'Add' button is highlighted.
7. The 'Add' button is clicked, and the data is added to the stem profile table.
8. The 'Close' button is clicked, returning to the stem profile chart.

The final stem profile chart shows a table of data points:

HT, m	LEN, m	D, mm
0.15	0.15	228
0.50	0.50	178
2.00	2.00	150
3.94	3.94	143
7.93	7.93	118