

Timbeter Blog

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TUTORIALS

How to measure log diameters accurately with Timbeter

February 16, 2026



Why diameter measurement still causes problems in forestry

Diameter measurement sounds simple on paper. In reality, it's one of the most common sources of disputes in timber trading. Logs are measured under time pressure, visibility is imperfect, piles are large, and different scaling rules apply across regions. A few millimetres per log quickly turn into cubic meters — and into money.

That's why forestry companies increasingly move away from purely manual methods and toward digital, log-level diameter measurement. Timbeter's Diameter Measurement functionality is designed exactly for this: fast field work, objective results, and full transparency for everyone involved.

What diameter measurement with Timbeter does

With one photo of a log pile or truck, Timbeter allows you to:

- Count every visible log
- Measure the diameter of each individual log
- Calculate average diameter and diameter distribution
- Calculate volume using internationally recognised formulas
- Store and share results digitally for audits, logistics, or trade

This makes diameter-based scaling clearer, repeatable, and easier to verify — especially when multiple parties are involved.

What you need before measuring

Before starting any diameter measurement, it is essential to prepare a reference.

The reference is a physical object of a known length placed in the photo. Timbeter uses it to convert pixels into real-world measurements. Without a correctly placed and entered reference, precise diameter and volume calculations are not possible.

For reliable results, the reference must be placed on the same plane as the log ends, clearly visible and unobstructed, and its real length must be entered into the app exactly as measured. Angled, floating, or partially hidden references can affect scaling accuracy.

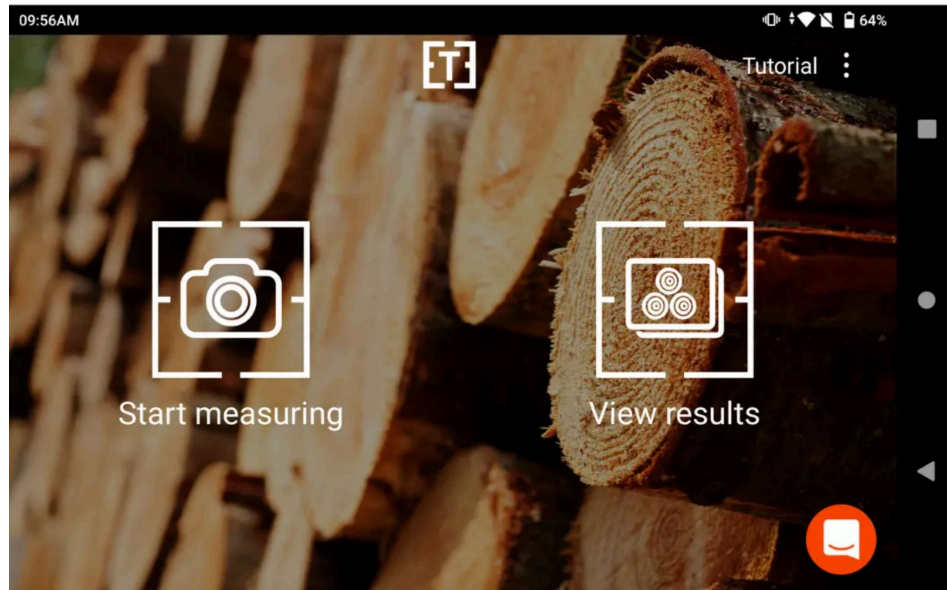
This single step is the foundation of reliable results and transparent measurements.



Step-by-Step: How to measure diameters with Timbeter

1. Open the Timbeter App

- Open the Timbeter application
- Choose Start a new measurement
- You can also access finished measurements from this screen



2. Take a photo of the pile

- Position yourself directly in front of the log ends
- Use single shot or panorama mode depending on pile size
- Keep the phone level (the app shows the angle)
- Adjust lighting or use flash if needed
- Capture the image



3. Enter measurement data

- After taking the photo, enter the required data:
- Select Diameter as the measurement type
- Enter the reference length
- Enter log length and select tree species

- Choose one of the available volume calculation formulas
- (Optional) Add name, storage, shipment number
- (Optional) Add wood type, quality, assortment, or comment
- Tap Save to continue

4. Set the reference

- A red reference line with two control points will appear
- Drag the points to match both ends of the reference object
- Use the zoomed-in preview for precise placement
- Tap Next to continue

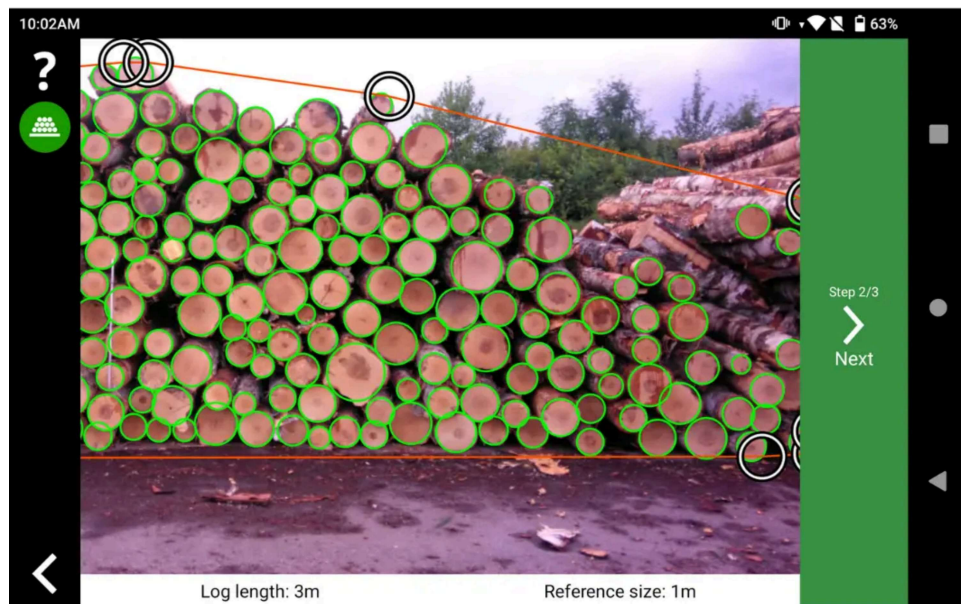
The reference defines scale, so accuracy here is critical.



5. Adjust the area of interest

- If the image includes extra logs that should not be measured:
- Adjust the contour using white control points
- Logs outside this area will be excluded from results
- Tap Next when done

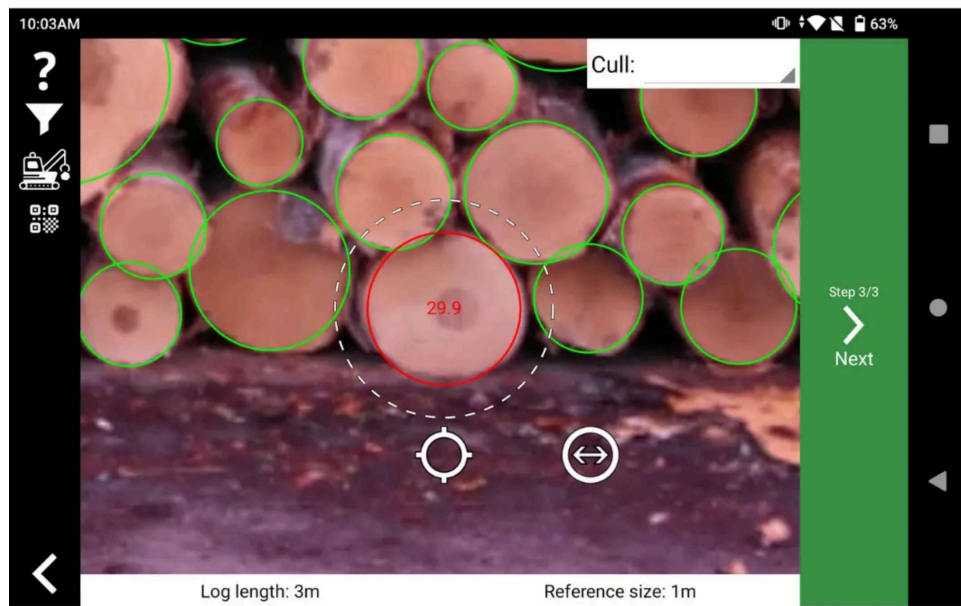
This step ensures only relevant logs are included.



6. Adjust log circles (if needed)

Timbeter automatically detects logs, but manual correction is possible:

- Remove a log: tap and hold on an unnecessary circle
- Add a log: tap and hold on an undetected log
- Adjust circle size and position if needed
- Once satisfied, tap Next.

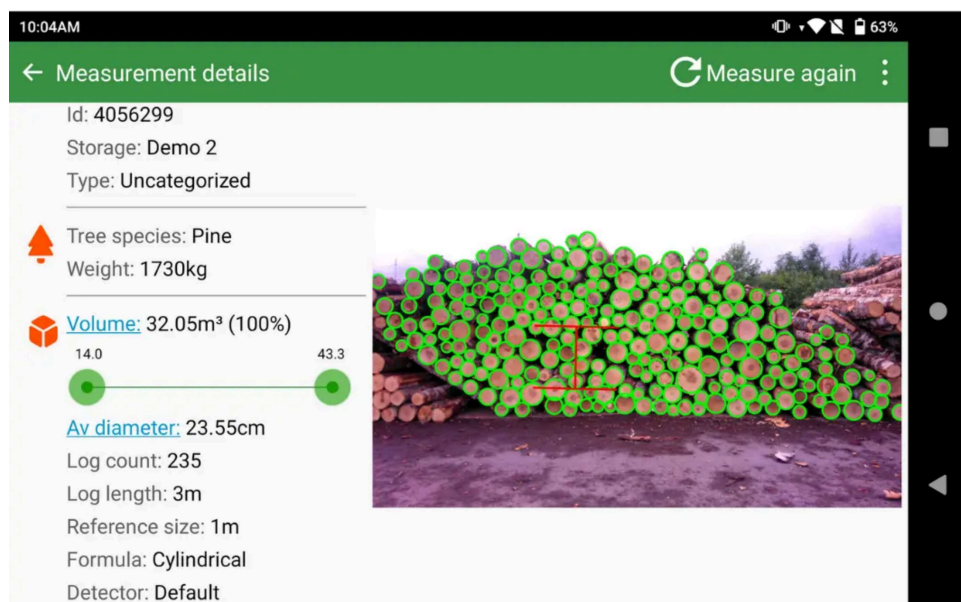


7. Review results

The results screen shows:

- Administrative information
- Total calculated volume
- Average diameter
- Diameter distribution
- All parameters used for calculation

Each log's diameter is measured individually, ensuring full transparency.



Accessing results on Timbeter Dashboard

This digital access makes Timbeter especially suitable for audits, logistics planning, and fair trade verification.

Storage	Location	Updated	Status	Logs	Gross Volume	
✓ Demo 2	 Location	7 minutes ago	In progress	8301	1582.30 m³	 
ID / Measured on	Type	Coordinates	Wood	Length	Log count	Volume
February 2026						
 134678.jpeg 29/10/2025, 08:28 4056299	Uncategorized		Pine	3 m	235	32.05 m³
 2025-10-29,08-27-26,-_2.jpeg 29/10/2025, 08:28 4056297	Uncategorized		Pine	3 m	252	34.08 m³
January 2026						
 2025-09-25,14-28-33,-_2.jpeg 25/09/2025, 14:40 4042158	Uncategorized		Pine	3 m	43	4.59 m³
 2025-09-25,14-30-06,-_2.jpeg 25/09/2025, 14:40 4042150	Uncategorized		Pine	3 m	119	74.33 m³
 2025-10-29,08-27-26,-_3.jpeg 29/10/2025, 08:28 3974643	Incoming		Pine Sawlog	3 m	67	10.09 m³
December 2025						
 Result_2025-12-08,10-41-34,-_2.jpeg 08/12/2025, 10:41 3928454	Uncategorized		Pine	2.4 m	775	103.69 m³ 0.6346
 2025-10-29,08-26-54,-_5.jpeg 29/10/2025, 08:28 3928362	Uncategorized		Pine	3 m	146	39.47 m³
 Result_2025-12-08,10-41-34.jpeg 08/12/2025, 10:41 3904579	Uncategorized		Pine	2.4 m	523	71.30 m³ 0.6471
 Result_2025-12-08,10-34-26,-_2.jpeg 08/12/2025, 10:34 3904560	Uncategorized		Pine	2.4 m	676	41.28 m³ 0.6599
 Result_2025-12-08,10-34-26.jpeg	Uncategorized		Pine	2.4 m	6	39.25 m³

Diameter measurement with Timbeter replaces subjective manual methods with objective, documented data that can be trusted across operations and partners. It significantly improves time efficiency in the field, reduces human error, and creates full digital traceability from measurement to reporting. Transparent volume calculations support fair trade practices, while better data quality improves logistics planning, safety, and waste reduction.

Want the full Timbeter manual?

See how precise diameter measurement works in real field conditions.

Discover how Timbeter measures every log from a single photo, calculates volume automatically, and stores results digitally for audits and trade transparency. Book a free demo and see the full workflow in action.

[Book a free demo](#)

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