



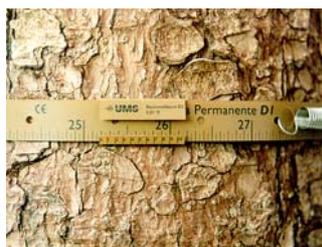
# D 1

## Permanent Tree Girth Tape-measure

- Easy and quick installation
- Scale reading already shows diameter
- Vernier for accurate readings
- Minimised friction
- Low thermal expansion

The girth tape D1 was designed in co-operation with forest scientists for permanent manual readings of the diameter of trees through the circumference.

The scale division is  $0,05 \pi \text{ cm}$  and the vernier reading  $0,01 \pi \text{ cm}$ . The unit is  $\pi/1$  [cm]. Therefore, the measured value already indicates the diameter of the trunk.



The installation is easy and quick. Lead the loose end of the tape-measure around the trunk and through the vernier. Then, hook in the spring to one of the eyelets with an initial spring expansion of min. 2 cm.

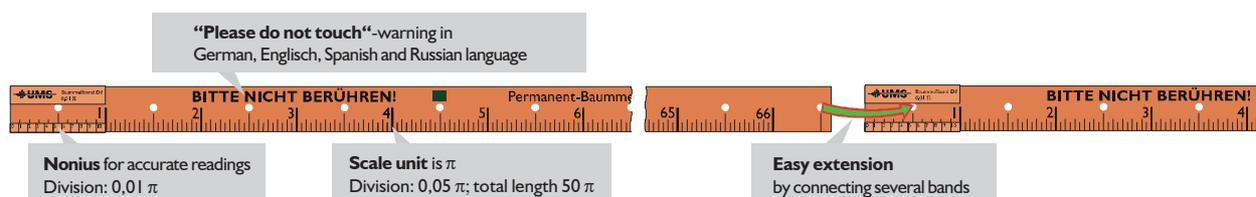
An exceptional feature of this girth tape is the minimised friction. There is only a printing on the top side to reduce the friction between the backside and the bark. The vernier is specially shaped for a frictionless guidance and the eyelets are manufactured without burr.

The girth tapes are made of Astralon, which has a thermal elongation of  $\alpha = 75 \times 10^{-6} \text{ K}^{-1}$ . The accurate length is granted at  $20^\circ\text{C}$ . A shift of temperature will lengthen/shorten the band for only 0,075‰ per  $^\circ\text{C}$ .

A single girth tape-measure is applicable for trunks with diameters from 10 to 66 cm. For larger trunks two tapes can easily be connected. Use the short spring for diameters below 40 cm.

The warning "Please do not touch" is printed on in German, English, Spanish and Russian language.

Type (spring size)	- K	- L
Length, unexpanded	75 mm	150 mm
Max. allowed expansion	18 cm	36 cm
For trunks with diameter	$< \varnothing 40 \text{ cm}$	$> \varnothing 40 \text{ cm}$



### Technical Specifications

Length	2100 mm
Width	15 mm
Thickness	0,5 mm
Thermal elongation	$75 \times 10^{-6} / \text{K}$
Tensile strength	64 N/mm <sup>2</sup>
Coefficient of friction	0,5 on dry bark
Working temperature	$-30^\circ\text{C} \dots + 60^\circ\text{C}$
Colour of tape / print	brown / black
Weight of band	16 g
Weight of spring	7 g (-K); 14 g (-L)
Max. tension at max. allowed expansion	6 N

### Specification

Specification	Type
Girth tape-measure with short spring	D1-K
Girth tape-measure with long spring	D1-L



Product  
Info

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