



Circometer CJU
C-tape
CJU-Centi
Circometer IUB
Novometer

Measuring tapes and instruments

for inside and outside circumferences

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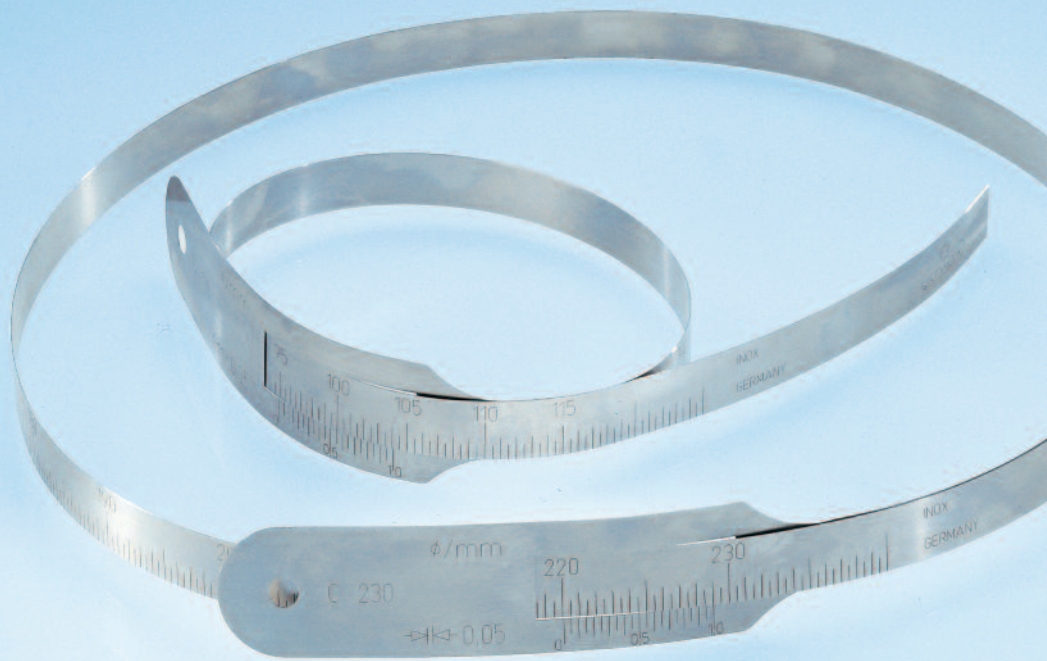


Schwenk

C-tape black



C-tape



Circumference tapes

Circumference measuring tapes of the series Circometer CJU have been manufactured by the company OSKAR SCHWENK for more than 50 years.

Applications

The simple and robust measuring instrument is used for the measurement of outside circumferences of rotationally symmetrical or round parts. At the same time, the diameter can also be measured.

Users

The circumference measuring tapes are used among others by the manufacturers of:

- Plastic pipes
- Steel tubes
- Concrete tubes
- Tyres e.g. for automobiles
- For big workpieces with $\varnothing > 200$ mm and a tolerance of $> 0,1$ mm
- In the forestry and agriculture
- Boiler and tank construction

Advantages

Using the Circometer circumference measuring tapes, the user can profit from the following advantages:

- Absolute measuring instrument
- Cost-effective
- Easy handling
- Also usable for workpieces, which are not dimensionally stable
- Fast determination of diameter and circumference at the same time
- Maximum accuracy according to DIN 866/B by laser scaling
- Highest quality by the use of high-grade spring band steel and by a 100% final inspection.
- Scaling in mm or inch

Variants

Based on the experience with the manufacturing of CJU circumference measuring tapes, variants have been developed in the course of the years, both for the determination of inside and outside diameters.

1. For outside circumferences

A. Circometer CJU

- Range of application from $\varnothing 20$ mm and circumference 60 mm
- Reading on vernier of 0,1 mm
- Use of a flexible spring band steel
- Measurement of diameter and circumference at the same time
- two-piece structure: flexible steel band and cover plate with vernier
- Scaling: laser scaled millimetre (or inch) scale: Scaling range: at the end of the tape, length approx. 1300 mm, as well as on the cover plate with vernier

Variants of the Circometer CJU

- INOX version out of stainless steel for corrosive ambient conditions
- From CJU 2200 with tape width of 35 or 60 mm
- Special measuring ranges up to diameter 11.000 mm
- Calibration certificate for measuring tapes according to DIN 55 350-18-4.2 optionally with checking of one or both scales
- Tape fitted with SCHWENK-Logo as a standard, if requested with another logo or neutral
- Alternative: reading on vernier of 0,05 mm
- black coated

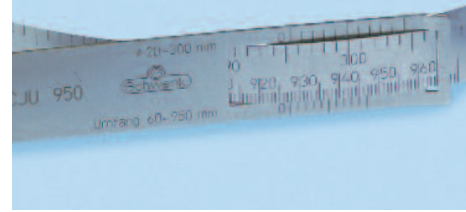
CJU 950

B. C-Tape

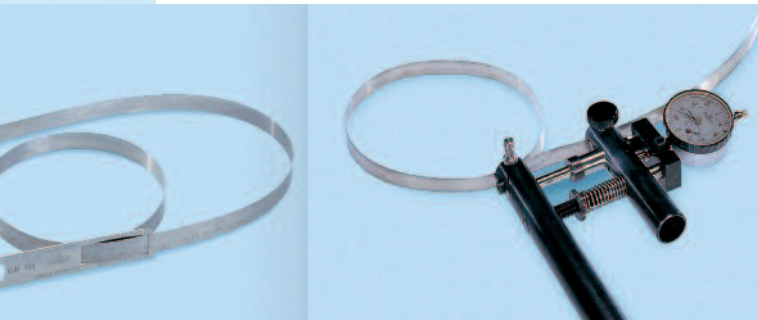
- Range of application in total from \varnothing 15 to 620 mm, e.g. for precision tubes
- Vernier with reading of 0,05 mm
- Special type of the cover plate (protected by registered pattern) – therefore the penetration error of the two-piece version is avoided
- Standard design out of stainless steel
- Optional design: With a black coating, for optimal reading contrast

C. CJU-Centi

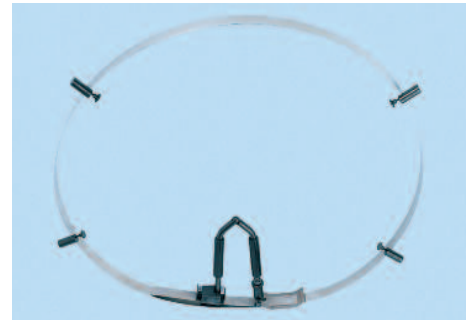
- Small measuring device for the measurement of outside circumferences at diameters from 50 to 1000 mm
- If requested, bevel tape already from a diameter of 8 mm
- Adjustable spring allows a constant measuring force, this is an advantage mainly for flexible workpieces
- Comparator measuring instrument



Vernier of Circometer CJU



CJU-Centi



IUB 1550 with clamping nippers and workpiece support

2. For inside circumferences

D. Circometer IUB

- Inside circumferences from \varnothing 230 mm or circumference of 720 mm, e.g. for driving belts
- Clamping nippers for pre-setting of the tape and for an easier handling – can be used for all tape sizes
- Workpiece support as option for all tape sizes

Quality Assurance





Standard Novometer



Digital Novometer

E. Standard Novometer

- Easy and fast measurement of the medium inside diameter of hollow parts, also in flexible workpieces, with Ø 14-330 mm
- Measuring depth between 15 and 50 mm
- Actual diameter is read at the scale ring and the vernier scale
- An optional sliding clutch enables a repeatability of the tape expansion force, recommended especially for flexible workpieces

F. Digital Novometer

- Application similar as for the standard Novometer, but with a data acquisition of 0,01 instead of 0,1 mm
- Recording of the measuring values through interface RS 485 or RS 232 for example for SPC systems
- Optional sliding clutch for reproducible conditions, especially useful with elastic workpieces



Type	range of application (mm)				Ableitung (mm)	material	width of tape (mm)	thickness of tape (mm)
	circumference min.	Standard max.	diameter min.	Standard max.				
Circometer CJU	60	23550	20	7500	0,1	steel band	16	0,2
Circometer CJU INOX	60	23550	20	7500	0,1	stainless steel	16	0,2
Circometer CJU-35	60	8500	20	2700	0,1	stainless steel	35	0,2
Circometer CJU-60	940	8500	300	2700	0,1	stainless steel	60	0,2
Series C (standard/black)	-	-	15	620	0,05	stainless steel	12	0,12
Series CJU-Centi	50	1000	-	-	-	stainless steel	10	0,1
Series IUB	720	8500	230	2700	0,1	stainless steel	20	0,5
Novometer	-	-	35	330	0,1	stainless steel	10	0,08
Novometer	-	-	14	330	0,01	stainless steel	20	0,1
Digital Novometer						stainless steel	10/20	0,1