

GRETENER Spinning Tubes

Made of first-grade compounds and using state-of-the-art technologies, the GRETENER spinning tubes meet the highest quality requirements regarding dimensions, concentricity, run-out stability and deformation. They also comply with ISO 368 standards and offer a lifetime of up to 8 years.

Developed in close collaboration with machine manufacturers, the GRETENER spinning tubes can be used on many ring spinning machines, with or without automatic doffing. They come in three different materials: ABS, PC or PBT 30 GV, to fit any hardness, impact strength and heat resistance demands and some are suitable for steaming.

Key parameters

	ABS	PC	PBT 30 GV
Spindle revolution	18 000 rpm	20 000 rpm	25 000 rpm
Suitability for steaming	no	yes	yes
Auto doffing	yes	yes	yes
Mechanical stability	sufficient	good	very good
Run out ISO 368 tolerance	length related	180 –210 mm/0.20 mm 220 –240 mm/0.25 mm 230 –280 mm/0.40 mm	
Form stability	good	high	very high
Pressing-on-force	< 15 N*		< 15 N*
Steaming	no**	yes	yes**

ABS Acrylnitril-Butadien-Styrol
PC Polycarbonate
PBT 30 GV Poly-Butylen-Terephthalat

* suitable for Rieter ROBodoff

**When spinning a "soft" core yarn (with elasthan) or yarn with high shrinking factor, a test with only a few tubes should be performed prior to steaming large batches.



01 red	06 white	11 lilac	22 ivory	28 pink
02 blue	07 green	12 orange	24 light green	29 anthracite
03 green	08 orange	13 black	25 blue	30 brown
04 yellow	09 grey	20 green	26 violet	31 brown
05 violet	10 blue	21 grey	27 brown	32 green

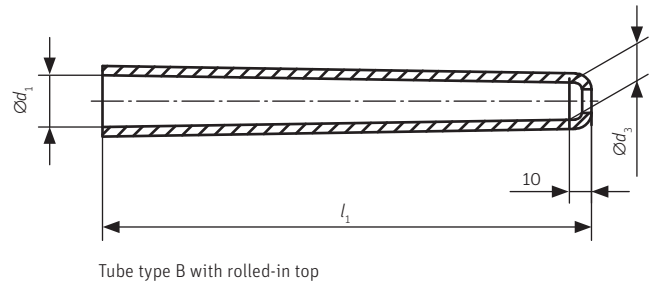
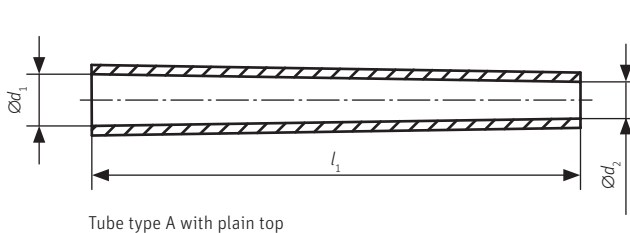
Color changes may appear with different raw materials

Dimensions in millimeters and total run-out tolerances

Lengths		Row								Permissible total run-out			
l_1	Permissible deviation	0		1		2		3		T_I^a	T_I^b	T_I^c	
		d_1	d_2	d_1	d_2	d_1	d_2	d_1	d_2				
Tubes with taper 1:38 $d_3 = d_2 + 0.26$													
180	± 1.5	20.24	15.50	18.74	14.00	17.24	12.50			0.40	0.25	0.20	
190		20.24	15.24	18.74	13.74	17.24	12.24						
200		22.26	17.00	20.26	15.00	18.76	13.50						
210		22.27	16.74	20.27	14.74	18.77	13.24						
220		24.28	18.49	22.28	16.49	20.28	14.49	18.78	12.99				
230		24.30	18.25	22.30	16.25	20.30	14.25	18.80	12.75				
240		27.31	20.99	24.31	17.99	22.31	15.99	20.31	13.99				
250		27.32	20.74	24.32	17.74	22.32	15.74	20.32	13.74				
260		± 2	30.34	23.50	27.34	20.50	24.34	17.50	22.34				15.50
270			30.35	23.24	27.35	20.24	24.35	17.24	22.35				15.24
280	33.36		25.99	30.36	22.99	27.36	19.99	24.36	16.99				
290	33.37		25.74	30.37	22.74	27.37	19.74	24.27	16.64				
300	± 2.5	36.39	28.50	33.39	25.50	30.39	22.50	27.39	19.50				
Tubes with taper 1:64 $d_3 = d_2 + 0.16$													
180	± 1.5	19	16.19	17	14.19	15	12.19			0.40	0.25	2.20	
190		20	17.03	18	15.03	16	13.03						
200		21	17.88	19	15.88	17	13.88	15	11.88				
210		22	18.72	20	16.72	18	14.72	16	12.72				
220		24	20.56	22	18.56	20	16.56	18	14.56				
230		24	20.41	22	18.41	20	16.41	18	14.41				
240		27	23.25	24	20.25	22	18.25	20	16.25				
250		27	23.09	24	20.09	22	18.09	20	16.09				
260		± 2	30	25.94	27	22.94	24	19.94	22				17.94
270			30	25.78	27	22.78	24	19.78	22				17.78
280	33		28.63	30	25.63	27	22.63	24	19.63				
290	33		28.47	30	25.47	27	22.47	24	19.47				
300	± 2.5	36	31.31	33	28.31	30	25.31	27	22.31				

- a $n \leq 15\,000 \text{ min}^{-1}$ (r/min of spindle)
- b $15\,000 \text{ min}^{-1} < n \leq 18\,000 \text{ min}^{-1}$ (r/min of spindle)
- c $n > 18\,000 \text{ min}^{-1}$ (r/min of spindle)

 Recommended



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