

5-key tenoroon, Jean Arnold TUERLINCKX (2), Mechelen, ca. 1820

BASIC - OUTSIDE	mm	mm	Comments
Joint lengths	Min.	Max.	
Standing length to bell	977		
Standing length to wing joint	681		
Wing joint length	395.5		
Wing joint - tenon length	39.5		
Butt joint length	324		
Long joint length	433		
Long joint - south tenon length	40.4		
Long joint - north tenon length	28.9		
Bell length	288		
Vent hole distance from north	x		
Vent hole approx diameter	x		
Tone hole distance, axis			
Wing - tone hole 1 distance from north	180		
Wing - tone hole 2 distance from north	215		
Wing - tone hole 3 distance from north	249		
Butt - tone hole 4 distance from north	75.5		
Butt - tone hole 5 distance from north	108		
Butt - tone hole 6 distance from north	142.5		
Butt - tone hole F distance from north	259		
Butt - tone hole E distance from north	102		
Butt - tone hole Ab distance from north	279		
Butt - tone hole F# distance from north	x		
Long joint - tone hole D distance from north	382.5		
Long joint - tone hole Eb distance from north	351		
Long joint - tone hole C distance from north	242.5		
Long joint - tone hole Bb distance from north	67.5		
Wing - major axis at tone hole 1	44.5		
Wing - major axis at tone hole 2	44.1		

5-key tenoroon, Jean Arnold TUERLINCKX (2), Mechelen, ca. 1820

Wing - major axis at tone hole 3	43.7		
Butt - major axis (side to side) at tone hole 4	55.8		
Butt - minor axis (front to back) at tone hole 4	38.4		
Butt - major axis (side to side) at tone hole 5	54.4		
Butt - minor axis (front to back) at tone hole 5	37.8		
Butt - major axis (side to side) at tone hole 6	53.1		
Butt - minor axis (front to back) at tone hole 6	36.9		
Butt - major axis (side to side) at tone hole F	47.2		
Butt - minor axis (front to back) at tone hole F	34		
Butt - major axis (side to side) at tone hole E	54.7		
Butt - minor axis (front to back) at tone hole E	37.9		
Butt - major axis (side to side) of the bottom butt ellipse	44.2		Ferrule 0.6-1.2 mm
Butt - minor axis (front to back) of the bottom butt ellipse	32.1		
Butt - major axis (side to side) of the top butt ellipse	58		Ferrule 0.3 mm
Butt - minor axis (front to back) of the top butt ellipse	40.7		
Butt - cork major axis (side to side)	36.1		
Butt - cork minor axis (front to back)	15.8		
Long joint - minor axis (front to back) at tone hole D	31.8		
Long joint - major axis (side to side) at tone hole D	31.2		
Long joint - minor axis (front to back) at tone hole Eb	31.2		
Long joint - major axis (side to side) at tone hole Eb	31.6		
Long joint - minor axis (front to back) at tone hole C	34		
Long joint - major axis (side to side) at tone hole C	33.3		
Long joint - minor axis (front to back) at tone hole Bb	37.3		

5-key tenoroon, Jean Arnold TUERLINCKX (2), Mechelen, ca. 1820

Long joint - major axis (side to side) at tone hole Bb	35.8		
Tone hole angle, Ø, length			
Wing - tone hole 1 angle	40° North		
Wing - tone hole 2 angle	36.5° South		
Wing - tone hole 3 angle	32.5 South		
Wing - tone hole 1 approx. Ø	4.1		
Wing - tone hole 2 approx. Ø	4.7		
Wing - tone hole 3 approx. Ø	4.3		
Wing - tone hole 1 approx. length	27.4		
Wing - tone hole 2 approx. length	23.6		
Wing - tone hole 3 approx. length	21.7		
Butt - tone hole 4 angle	27.5° North		
Butt - tone hole 5 angle	24° South		
Butt - tone hole 6 angle	20.5° South		
Butt - tone hole E angle	16.5° South		
Butt - tone hole 4 approx. Ø	5.8		
Butt - tone hole 5 approx. Ø	4.8		
Butt - tone hole 6 approx. Ø	4.3		
Butt - tone hole E approx. Ø	6.8		
Butt - tone hole 4 approx. length	19.5		
Butt - tone hole 5 approx. length	16		
Butt - tone hole 6 approx. length	15		
Butt - tone hole E approx. length	12		
Long joint - tone hole C angle	0		
Long joint - tone hole C Ø	7.4	7.7	
Long joint - tone hole C approx. length	7.6		
BASIC - INSIDE			
Inner bore length			
Bore length	1682.1		

5-key tenoroon, Jean Arnold TUERLINCKX (2), Mechelen, ca. 1820

Wing bore length	397		
Butt - small bore length	320		
Butt - big bore length	315		
Butt - small bore socket length	40.3		
Butt - big bore socket length	40.6		
Butt - small bore beginning of septum	298		
Butt - big bore beginning of septum	298		
Long joint length	435		
Bell length	290		
Inner bore beginning Ø (not socket!)	Min.	Max.	
Wing bore Ø north	x		Bocal well Ø north 10.8–11 mm
Wing bore Ø south	13.3	13.6	
Bocal well length	20.3		
Butt - small bore Ø north	13.6		
Butt - big bore Ø north	19.3		
Long joint Ø north	22.5	22.8	
Long joint Ø south	19.1	19.6	
Bell bore Ø north	23.1	23.6	
Bell bore Ø south	25.9		
Bell socket length	29		
Bocal Ø at the beginning	3.8		Found separately; might belong to instrument
Bocal thickness at the beginning	0.1	0.2	
Bocal Ø at the tenon	8.5		
Bocal thickness at the tenon	0.3	0.6	
Bocal length (along top)	254		Hole at 44 mm from tenon
COMPLETE - OUTSIDE	Min.	Max.	
Bocal well thickness with ferrule	6.5	6.7	Without ferrule, 5.9 to 6.3 mm
Bocal well ferrule thickness	0.5	0.7	Height ferrule: 21.2 mm

5-key tenoroon, Jean Arnold TUERLINCKX (2), Mechelen, ca. 1820

Wing - tenon thickness	0.4	0.6	
Wing - tenon northern extern. Ø	21	21.4	
Wing - tenon southern extern. Ø	20.7	21	
Wing - tone hole A distance from north	x		
Wing - tone hole A angle	x		
Wing - tone hole A approx. Ø	x		
Wing - tone hole A approx. length	x		
Wing - tone hole C distance from north	x		
Wing - tone hole C angle	x		
Wing - tone hole C Ø	x		
Wing - tone hole C approx. length	x		
Butt - big socket thickness with ferrule	28		
Butt - small socket thickness with ferrule	29		
Butt - top ferrule thickness	0.3	0.4	Height ferrule: 3.9
Minimum wall thickness between butt sockets	3.2		
Butt - wood space between corks - bottom	x		One cork
Butt - big bore cork Ø - bottom	16.3		
Butt - small bore cork Ø - bottom	16		
Butt - wood wall between cork/front - small bore	7.1		
Butt - wood wall between cork/front - big bore	6.3		
Butt - wood wall between cork/back - small bore	6.7		
Butt - wood wall between cork/back - big bore	6.7		
Wood wall between cork/side - small bore	3.8		
Wood wall between cork/side - big bore	4.2		
Butt - bottom ferrule thickness	0.8	1.2	
Long joint - south tenon thickness	2.3	2.5	
Long joint - south tenon northern extern. Ø	25.5	25.8	
Long joint - south tenon southern extern. Ø	24.5		
Long joint - north tenon thickness	2.4	2.8	
Long joint - north tenon northern extern. Ø	30	30.2	

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Long joint - north tenon southern extern. Ø	30.4	30.6	
Bell socket thickness with brass	3	3.4	
Brass thickness of the bell ferrule	0.4	0.5	
Bell ferrule height	26.8	27.2	
Tone hole angle, Ø, length			
Butt - tone hole Ab angle	S 10.5°		Ab tone hole goes in big bore
Butt - tone hole F angle	S 15.5		
Butt - tone hole F# angle	x		
Butt - tone hole Ab approx. Ø	5.5		
Butt - tone hole F approx. Ø	5.8		
Butt - tone hole F# approx. Ø	x		
Butt - tone hole Ab approx. length	14.5		
Butt - tone hole F approx. length	10.5		
Butt - tone hole F# approx. length	x		
Long joint - tone hole D angle	0		
Long joint - tone hole E b angle	0		
Long joint - tone hole B b angle	0		
Long joint - tone hole D approx. Ø	7.7	8	
Long joint - tone hole E b approx. Ø	6	6.2	
Long joint - tone hole B b approx.Ø	11.5	11.9	
Long joint - tone hole D approx. length	7.5		
Long joint - tone hole E b approx. length	6.4		
Long joint - tone hole B b approx. length	8.3		
COMPLETE - INSIDE			
Wing - tone hole 1 distance from south	237		
Wing - tone hole 2 distance from south	168		
Wing - tone hole 3 distance from south	136		
Wing - tone hole A distance from south	x		
Wing - tone hole C distance from south	x		
Butt - tone hole 4 distance from north	66		

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Butt - tone hole 5 distance from north	116		
Butt - tone hole 6 distance from north	148		
Butt - tone hole Ab distance from north	283		
Butt - tone hole F distance from north	263		
Butt - tone hole F# distance from north	x		
Butt - tone hole E distance from north	107		
Long joint - tone hole D distance from north	383		From south, 51.5 mm
Long joint- tone hole E \flat distance from north	354		From south, 83 mm
Long joint - tone hole C distance from north	244		From south, 190.5 mm
Long joint - hole B \flat distance from north	67.5		From south, 366 mm
Bell - vent hole distance from north	x		