

5-key tenoroon, Jean-Nicholas SAVARY PÈRE, Paris, ca. 1810

BASIC - OUTSIDE			Comments
Joint lengths	mm	mm	
Standing length to bell	762.0		
Standing length to wing joint	551.0		
Wing joint length	333.5		
Wing joint - tenon length	28.2		
Butt joint length	244.0		
Long joint length	381.0		
Long joint - south tenon length	28.6		
Long joint - north tenon length	27.0		
Bell length	193.0		
Vent hole distance from north	x		
Vent hole approx diameter	x		
Tone hole distance, axis			
Wing - tone hole 1 distance from north	154.0		
Wing - tone hole 2 distance from north	188.0		
Wing - tone hole 3 distance from north	214.0		
Butt - tone hole 4 distance from north	54.5		
Butt - tone hole 5 distance from north	77.8		
Butt - tone hole 6 distance from north	101.0		
Butt - tone hole F distance from north	192.0		
Butt - tone hole E distance from north	69.8		
Butt - tone hole Ab distance from north	194.0		
Butt - tone hole F# distance from north	x		
Long joint - tone hole D distance from north	340.0		
Long joint - tone hole Eb distance from north	357.0		
Long joint - tone hole C distance from north	257.0		

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Long joint - tone hole Bb distance from north	75.3		
Wing - major axis at tone hole 1	39.0		
Wing - major axis at tone hole 2	40.0		
Wing - major axis at tone hole 3	39.6		
Butt - major axis (side to side) at tone hole 4	46.6		
Butt - minor axis (front to back) at tone hole 4	36.0		
Butt - major axis (side to side) at tone hole 5	46.3		
Butt - minor axis (front to back) at tone hole 5	36.2		
Butt - major axis (side to side) at tone hole 6	45.5		
Butt - minor axis (front to back) at tone hole 6	35.9		
Butt - major axis (side to side) at tone hole F	41.2		
Butt - minor axis (front to back) at tone hole F	31.2		
Butt - major axis (side to side) at tone hole E	46.6		
Butt - minor axis (front to back) at tone hole E	36.0		
Butt - major axis (side to side) of the bottom butt ellipse	37.9	35.3	With/without ferrule
Butt - minor axis (front to back) of the bottom butt ellipse	32.4	29.2	With/without ferrule
Butt - major axis (side to side) of the top butt ellipse	46.5	44.2	With/without ferrule
Butt - minor axis (front to back) of the top butt ellipse	36.1	32.9	With/without ferrule
Butt - cork major axis (side to side)	30.6		
Butt - cork minor axis (front to back)	17.0		
Long joint - minor axis (front to back) at tone hole D	27.8		With platform 2.7 mm
Long joint - major axis (side to side) at tone hole D	26.2		
Long joint - minor axis (front to back) at tone hole Eb	27.0		
Long joint - major axis (side to side) at tone hole Eb	27.5		

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Long joint - minor axis (front to back) at tone hole C	30.6		
Long joint - major axis (side to side) at tone hole C	29.0		
Long joint - minor axis (front to back) at tone hole Bb	32.7		
Long joint - major axis (side to side) at tone hole Bb	31.8		
Tone hole angle, Ø, length			
Wing - tone hole 1 angle	41° North		
Wing - tone hole 2 angle	17.5° South		
Wing - tone hole 3 angle	25.5° South		
Wing - tone hole 1 approx. Ø	4.0		
Wing - tone hole 2 approx. Ø	4.5		
Wing - tone hole 3 approx. Ø	3.8		
Wing - tone hole 1 approx. length	28.1		
Wing - tone hole 2 approx. length	23.7		
Wing - tone hole 3 approx. length	19.6		
Butt - tone hole 4 angle	24° North		
Butt - tone hole 5 angle	22.6 South		
Butt - tone hole 6 angle	20.5 South		
Butt - tone hole E angle	19.5		
Butt - tone hole 4 approx. Ø	6.8		
Butt - tone hole 5 approx. Ø	6.3		
Butt - tone hole 6 approx. Ø	5.2		
Butt - tone hole E approx. Ø	7.5		
Butt - tone hole 4 approx. length	17.0		
Butt - tone hole 5 approx. length	18.9		
Butt - tone hole 6 approx. length	18.0		
Butt - tone hole E approx. length	13.0		

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Long joint - tone hole C angle	0.0		
Long joint - tone hole C Ø	7.5		
Long joint - tone hole C approx. length	7.3		
BASIC - INSIDE			
Inner bore length			
Bore length	1322		
Wing bore length	334.0		
Butt - small bore length	236.0		
Butt - big bore length	234.0		
Butt - small bore socket length	30.0		
Butt - big bore socket length	30.0		
Butt - small bore beginning of septum	219.0		
Butt - big bore beginning of septum	218.0		
Long joint bore length	380.0		
Bell bore length	193.0		
Inner bore beginning Ø (not socket!)	Min.	Max.	
Wing bore Ø north	6.5	6.7	
Wing bore Ø south	11.6	11.9	
Bocal well length	22.0		
Butt - small bore Ø north	12.2	12.4	
Butt - big bore Ø north	16.8	17.2	
Long joint Ø north	22.0	22.4	
Long joint Ø south	16.2	16.6	
Bell bore Ø north	21.8	22.1	
Bell bore Ø south	22.4	22.6	
Bell socket length	30.0		
Bocal Ø at the beginning	x		

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Bocal thickness at the beginning	x		
Bocal Ø at the tenon	x		
Bocal thickness at the tenon	x		
Bocal length (along top)	x		
COMPLETE - OUTSIDE	Min.	Max.	
Bocal well thickness with ferrule	1.6	2.8	Almost no wood in bocal well. Signs of old cork from a bocal (?), probably making dimensions of well smaller
Bocal well ferrule thickness	0.6		
Wing - tenon thickness	2.5	2.8	
Wing - tenon northern extern. Ø	16.7	17.1	
Wing - tenon southern extern. Ø	16.3	16.8	
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	2.2		
Butt - small socket thickness with ferrule	2.2		
Butt - top ferrule thickness	1.0		
Minimum wall thickness between butt sockets	2.0		
Butt - wood space between corks - bottom	x		One cork
Butt - big bore cork Ø - bottom	15.7		
Butt - small bore cork Ø - bottom	15.5		

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Butt - wood wall between cork/front - small bore	4.6	5.7	Without ferrule/with ferrule
Butt - wood wall between cork/front - big bore	5.4	6.4	Without ferrule/with ferrule
Butt - wood wall between cork/back - small bore	6.3	7.6	Without ferrule/with ferrule
Butt - wood wall between cork/back - big bore	6.0	6.8	Without ferrule/with ferrule
Wood wall between cork/side - small bore	1.9	3	Without ferrule/with ferrule
Wood wall between cork/side - big bore	2.0	3	Without ferrule/with ferrule
Butt - bottom ferrule thickness	0.8	0.9	
Long joint - south tenon thickness	1.9	2.5	
Long joint - south tenon northern extern. Ø	21.5		
Long joint - south tenon southern extern. Ø	20.9	21.3	
Long joint - north tenon thickness	2.3	2.5	
Long joint - north tenon northern extern. Ø	26.3	26.8	
Long joint - north tenon southern extern. Ø	26.1	26.5	
Bell socket thickness with brass	2.9		1.3/1.5 mm without ferrule
Brass thickness of the bell ferrule	0.8		
Bell ferrule height	25.9	26.1	
Tone hole angle, Ø, length			
Butt - tone hole Ab angle	x		
Butt - tone hole F angle	x		
Butt - tone hole F# angle	x		
Butt - tone hole Ab approx. Ø	5.1		
Butt - tone hole F approx. Ø	8.2		
Butt - tone hole F# approx. Ø	x		
Butt - tone hole Ab approx. length	x		
Butt - tone hole F approx. length	x		
Butt - tone hole F# approx. length	x		
Long joint - tone hole D angle	x		

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Long joint - tone hole E \flat angle	x		
Long joint - tone hole B \flat angle	x		
Long joint - tone hole D approx. \emptyset	9.3		
Long joint - tone hole E \flat approx. \emptyset	5.8		
Long joint - tone hole B \flat approx. \emptyset	10.1		
Long joint - tone hole D approx. length	x		
Long joint - tone hole E \flat approx. length	x		
Long joint - tone hole B \flat approx. length	x		
COMPLETE - INSIDE			
Wing - tone hole 1 distance from south	195.0		
Wing - tone hole 2 distance from south	141.0		
Wing - tone hole 3 distance from south	113.0		
Wing - tone hole A distance from south	x		
Wing - tone hole C distance from south	x		
Butt - tone hole 4 distance from north	51.0		
Butt - tone hole 5 distance from north	83.0		
Butt - tone hole 6 distance from north	160.0		
Butt - tone hole Ab distance from north	197.0		
Butt - tone hole F distance from north	195.0		
Butt - tone hole F \sharp distance from north	x		
Butt - tone hole E distance from north	73.0		
Long joint - tone hole D distance from north	339.0		
Long joint- tone hole E \flat distance from north	312.0		
Long joint - tone hole C distance from north	220.0		
Long joint - hole B \flat distance from north	x		
Bell - vent hole distance from north	x		

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EXTRAS			
Wing joint - internal Ø bocal well	10.8	11.7	