

6-key tenoroon, Thomas CAHUSAC, London, 1789			
BASIC - OUTSIDE	mm	mm	Comments
Joint lengths			
Standing length to bell	837.5		
Standing length to wing joint	641		
Wing joint length	381.5		
Wing joint - tenon length	35.2		
Butt joint length	293		
Long joint length	419.5		
Long joint - south tenon length	36.7		
Long joint - north tenon length	30.6		
Bell length	191		
Vent hole distance from north	x		
Vent hole approx diameter	x		
Tone hole distance, axis			
Wing - tone hole 1 distance from north	183		
Wing - tone hole 2 distance from north	215		
Wing - tone hole 3 distance from north	247.5		
Butt - tone hole 4 distance from north	60		
Butt - tone hole 5 distance from north	98.5		
Butt - tone hole 6 distance from north	133		
Butt - tone hole F distance from north	243		
Butt - tone hole E distance from north	107.5		
Butt - tone hole Ab distance from north	219		
Butt - tone hole F# distance from north	206.5		
Long joint - tone hole D distance from north	373.5		

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Long joint - tone hole Eb distance from north	332		
Long joint - tone hole C distance from north	234		
Long joint - tone hole Bb distance from north	75		
Wing - major axis at tone hole 1	41.8		
Wing - major axis at tone hole 2	42		
Wing - major axis at tone hole 3	42.3		
Butt - major axis (side to side) at tone hole 4	59.8		
Butt - minor axis (front to back) at tone hole 4	41.2		
Butt - major axis (side to side) at tone hole 5	59		
Butt - minor axis (front to back) at tone hole 5	41.3		
Butt - major axis (side to side) at tone hole 6	58		
Butt - minor axis (front to back) at tone hole 6	40.8		
Butt - major axis (side to side) at tone hole F	54		
Butt - minor axis (front to back) at tone hole F	38.2		
Butt - major axis (side to side) at tone hole E	58.7		
Butt - minor axis (front to back) at tone hole E	41.2		
Butt - major axis (side to side) of the bottom butt ellipse	48.3		No ferrule
Butt - minor axis (front to back) of the bottom butt ellipse	32		Ferrule = 0.7 to 1.1 mm
Butt - major axis (side to side) of the top butt ellipse	60.5		With ferrule
Butt - minor axis (front to back) of the top butt ellipse	41.7		Ferrule = 0.7 to 1.1 mm
Butt - cork major axis (side to side)	36		
Butt - cork minor axis (front to back)	16		
Long joint - minor axis (front to back) at tone hole D	34.3		
Long joint - major axis (side to side) at tone hole D	32.5		
Long joint - minor axis (front to back) at tone hole Eb	33		

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Long joint - major axis (side to side) at tone hole Eb	34.6	
Long joint - minor axis (front to back) at tone hole C	34.9	
Long joint - major axis (side to side) at tone hole C	33.7	
Long joint - minor axis (front to back) at tone hole Bb	38.5	
Long joint - major axis (side to side) at tone hole Bb	37.5	
Tone hole angle, Ø, length	Min.	Max.
Wing - tone hole 1 angle	N 26.5°	
Wing - tone hole 2 angle	S 24.5°	
Wing - tone hole 3 angle	S 26°	
Wing - tone hole 1 approx. Ø	3.7	
Wing - tone hole 2 approx. Ø	4.5	
Wing - tone hole 3 approx. Ø	3.8	
Wing - tone hole 1 approx. length	20.7	
Wing - tone hole 2 approx. length	20.4	
Wing - tone hole 3 approx. length	21.3	
Butt - tone hole 4 angle	N 16.5°	
Butt - tone hole 5 angle	S 23.5°	
Butt - tone hole 6 angle	S 26°	
Butt - tone hole E angle	S 27°	
Butt - tone hole 4 approx. Ø	5.4	
Butt - tone hole 5 approx. Ø	5	
Butt - tone hole 6 approx. Ø	4.5	
Butt - tone hole E approx. Ø	6.9	
Butt - tone hole 4 approx. length	15	
Butt - tone hole 5 approx. length	17.5	
Butt - tone hole 6 approx. length	14	

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Butt - tone hole E approx. length	13		
Long joint - tone hole C angle	0		
Long joint - tone hole C \emptyset	7.6	8	
Long joint - tone hole C approx. length	8		
BASIC - INSIDE			
Inner bore length			
Bore length	1476.8		
Wing bore length	384		
Butt - small bore length	275.5		
Butt - big bore length	277		
Butt - small bore socket length	35		
Butt - big bore socket length	38.4		
Butt - small bore beginning of septum	260		
Butt - big bore beginning of septum	259.5		
Long joint length	421		
Bell length	193		
Inner bore beginning \emptyset (not socket!)			
Wing bore \emptyset north	11.5	12	
Wing bore \emptyset south	12.3	12.7	
Bocal well length	16		Almost not possible. Measured taken with bocal intake
Butt - small bore \emptyset north	12.6		
Butt - big bore \emptyset north	20.7		
Long joint \emptyset north	23.6	24.2	

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Long joint \emptyset south	19.7	20.2	
Bell bore \emptyset north	20.8	21.4	
Bell bore \emptyset south	23.6		
Bell socket length	35.3		
Bocal \emptyset at the beginning	3.7	3.8	Measured from inside
Bocal thickness at the beginning	0.3	0.5	
Bocal \emptyset at the tenon	8.2	8.5	
Bocal thickness at the tenon	1.1		
Bocal length (along top)	180		
COMPLETE - OUTSIDE	Min.	Max.	
Bocal well thickness with ferrule	6	6.6	Without ferrule: 4.5 to 5.5 mm
Bocal well ferrule thickness	0.8	1.3	
Wing - tenon thickness	3.8	4	
Wing - tenon northern extern. \emptyset	20.2	20.4	
Wing - tenon southern extern. \emptyset	20.4	20.7	
Wing - tone hole A distance from north	x		
Wing - tone hole A angle	x		
Wing - tone hole A approx. \emptyset	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 approx. \emptyset	x		
Wing - tone hole C approx. length	x		
Butt - big socket thickness with ferrule	3		

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Butt - small socket thickness with ferrule	2.7		
Butt - top ferrule thickness	0.7	1	
Minimum wall thickness between butt sockets	4.6		
Butt - wood space between corks - bottom	x		One cork
Butt - big bore cork \emptyset - bottom	15.7		
Butt - small bore cork \emptyset - bottom	15.5		
Butt - wood wall between cork/front - small bore	6.6		
Butt - wood wall between cork/front - big bore	6.1		
Butt - wood wall between cork/back - small bore	7.8		
Butt - wood wall between cork/back - big bore	6.3		
Wood wall between cork/side - small bore	7.4		
Wood wall between cork/side - big bore	4.1		
Butt - bottom ferrule thickness	0.7	1.1	
Long joint - south tenon thickness	2.9	3.3	
Long joint - south tenon northern extern. \emptyset	25.9	26.6	
Long joint - south tenon southern extern. \emptyset	26.3		
Long joint - north tenon thickness	3.5	3.8	
Long joint - north tenon northern extern. \emptyset	31.3	31.5	
Long joint - north tenon southern extern. \emptyset	31.6	32	
Bell socket thickness with brass	3.4	3.9	Without ferrule: 3.1 to 3.3
Brass thickness of the bell ferrule	0.3	0.6	
Bell ferrule height	18	18.7	
Tone hole angle, \emptyset, length			
Butt - tone hole Ab angle	S 12°		
Butt - tone hole F angle	N 19.5°		
Butt - tone hole F# angle	S 17°		

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Butt - tone hole Ab approx. \emptyset	3.8		
Butt - tone hole F approx. \emptyset	6.4		
Butt - tone hole F# approx. \emptyset	5.2		
Butt - tone hole Ab approx. length	9.8		
Butt - tone hole F approx. length	12		
Butt - tone hole F# approx. length	15		
Long joint - tone hole D angle	0		
Long joint - tone hole E \flat angle	S 6.5°		
Long joint - tone hole B \flat angle	0		
Long joint - tone hole D approx. \emptyset	6.7	7.3	
Long joint - tone hole E \flat approx. \emptyset	5.35		
Long joint - tone hole B \flat approx. \emptyset	8.8	9.3	
Long joint - tone hole D approx. length	8		
Long joint - tone hole E \flat approx. length	6.6		
Long joint - tone hole B \flat approx. length	8.5		
COMPLETE - INSIDE			
Wing - tone hole 1 distance from south	210		
Wing - tone hole 2 distance from south	159		
Wing - tone hole 3 distance from south	125		
Wing - tone hole A distance from south	x		
Wing - tone hole W2 distance from south	x		
Butt - tone hole 4 distance from north	55		
Butt - tone hole 5 distance from north	106		
Butt - tone hole 6 distance from north	142		
Butt - tone hole Ab distance from north	220.5		
Butt - tone hole F distance from north	240		

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Butt - tone hole F # distance from north	212		
Butt - tone hole E distance from north	115		
Long joint - tone hole D distance from north	375		From south 42
Long joint- tone hole E b distance from north	334		From south 87
Long joint - tone hole C distance from north	235		From south 188
Long joint - hole B b distance from north	75		From south 345
Bell - vent hole distance from north	x		