

**16-key tenoroon, GAUTROT aîné, Paris, ca.1875–84**

<b>BASIC - OUTSIDE</b>	<b>mm</b>	<b>mm</b>	<b>Comments</b>
<b>Joint lengths</b>			
Standing length to bell	967		
Standing length to wing joint	630		
Wing joint length	369		
Wing joint - tenon length	42.8		
Butt joint length	302		
Long joint length	479		
Long joint - south tenon length	44.5		
Long joint - north tenon length	32.2		
Bell length	263		
Vent hole distance from north	x		
Vent hole approx diameter	x		
<b>Tone hole distance, axis</b>			
Wing - tone hole 1 distance from north	172		
Wing - tone hole 2 distance from north	204		
Wing - tone hole 3 distance from north	235		
Butt - tone hole 4 distance from north	69		
Butt - tone hole 5 distance from north	96		
Butt - tone hole 6 distance from north	128		
Butt - tone hole F distance from north	232		
Butt - tone hole E distance from north	92.5		
Butt - tone hole Ab distance from north	252		
Butt - tone hole F# distance from north	201		
Long joint - tone hole D distance from north	416		

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Long joint - tone hole Eb distance from north	371		
Long joint - tone hole C distance from north	271		
Long joint - tone hole Bb distance from north	94		
Wing - major axis at tone hole 1	48		
Wing - major axis at tone hole 2	49.7		
Wing - major axis at tone hole 3	48.2		
Butt - major axis (side to side) at tone hole 4	64.3		
Butt - minor axis (front to back) at tone hole 4	48.2		
Butt - major axis (side to side) at tone hole 5	64.1		
Butt - minor axis (front to back) at tone hole 5	49		
Butt - major axis (side to side) at tone hole 6	62.9		
Butt - minor axis (front to back) at tone hole 6	48.5		
Butt - major axis (side to side) at tone hole F	56.8		
Butt - minor axis (front to back) at tone hole F	42.2		
Butt - major axis (side to side) at tone hole E	64.1		
Butt - minor axis (front to back) at tone hole E	48.7		
ellipse	50.2		
Butt - minor axis (front to back) of the bottom butt ellipse	37		
Butt - major axis (side to side) of the top butt ellipse	62.8		
Butt - minor axis (front to back) of the top butt ellipse	45.7		
Long joint - minor axis (front to back) at tone hole D	32.9		
Long joint - major axis (side to side) at tone hole D	34.9		

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Long joint - minor axis (front to back) at tone hole Eb	34.7		
Long joint - major axis (side to side) at tone hole Eb	35.4		
Long joint - minor axis (front to back) at tone hole C	31.4		
Long joint - major axis (side to side) at tone hole C	36		
Long joint - minor axis (front to back) at tone hole Bb	37.4		
Long joint - major axis (side to side) at tone hole Bb	37.3		
<b>Tone hole angle, Ø, length</b>			
Wing - tone hole 1 angle	x		
Wing - tone hole 2 angle	x		
Wing - tone hole 3 angle	x		
Wing - tone hole 1 approx. Ø	6		
Wing - tone hole 2 approx. Ø	7.8		
Wing - tone hole 3 approx. Ø	5.9		
Wing - tone hole 1 approx. length	38.2		
Wing - tone hole 2 approx. length	34.5		
Wing - tone hole 3 approx. length	36.3		
Butt - tone hole 4 angle	x		
Butt - tone hole 5 angle	x		
Butt - tone hole 6 angle	x		
Butt - tone hole E angle	x		
Butt - tone hole 4 approx. Ø	10.9		

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Butt - tone hole 5 approx. Ø	9.6		
Butt - tone hole 6 approx. Ø	8.4		
Butt - tone hole E approx. Ø	9.6		
Butt - tone hole 4 approx. length	21		
Butt - tone hole 5 approx. length	23.9		
Butt - tone hole 6 approx. length	23.5		
Butt - tone hole E approx. length	20.4		
Butt - cork major axis (side to side)	40.5		
Butt - cork minor axis (front to back)	20		
Long joint - tone hole C angle	x		
Long joint - tone hole C Ø	x		
Long joint - tone hole C approx. length	x		
<b>BASIC - INSIDE</b>			
<b>Inner bore length</b>			
Bore length	1609.3		
Wing bore length	370		
Butt - small bore length	290		There is no cap/corck at the bottom. Measurements taken until the line of rust left by the original cup.
Butt - big bore length	290		Same as above. Approx. measurement

<b>16-key tenoroon, GAUTROT aîné, Paris, ca.1875–84</b>			
Butt - small bore socket length	42.8		
Butt - big bore socket length	45.1		
Butt - small bore beginning of septum	265		
Butt - big bore beginning of septum	266		
Long joint bore length	480		
Bell bore length	264		
<b>Inner bore beginning Ø (not socket!)</b>	<b>Min.</b>	<b>Max.</b>	
Wing bore Ø north	11.2		
Wing bore Ø south	12.8		
Bocal well length	18.3		
Butt - small bore Ø north	15.4		
Butt - big bore Ø north	21		
Long joint Ø north	27.6		
Long joint Ø south	20.6		
Bell bore Ø north	28.5	28.7	
Bell bore Ø south	28		
Bell socket length	31.8		
Bocal Ø at the beginning	x		
Bocal thickness at the beginning	x		
Bocal Ø at the tenon	x		
Bocal thickness at the tenon	x		
Bocal length (along top)	x		
<b>COMPLETE - OUTSIDE</b>	<b>Min.</b>	<b>Max.</b>	
Bocal well thickness with ferrule	5.5	5.7	
Bocal well ferrule thickness	x		

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Wing - tenon thickness	3.8		
Wing - tenon northern extern. Ø	22.4		
Wing - tenon southern extern. Ø	20.7		
Wing - tone hole A distance from north	68		
Wing - tone hole A angle	x		
Wing - tone hole A extern. Ø	x		
Wing - tone hole A approx. length	x		
Wing - tone hole C distance from north	26.5		
Wing - tone hole C angle	x		
Wing - tone hole C extern. Ø	x		
Wing - tone hole C approx. length	x		
Butt - big socket thickness with ferrule	3.9		
Butt - small socket thickness with ferrule	4.1		
Butt - top ferrule thickness	1.6		
Minimum wall thickness between butt sockets	2.4		
Butt - wood space between corks - bottom	x		One cork
Butt - big bore cork Ø - bottom	19.5		
Butt - small bore cork Ø - bottom	19.9		
Butt - wood wall between cork/front - small bore	7.1		
Butt - wood wall between cork/front - big bore	8.3		
Butt - wood wall between cork/back - small bore	8.3		
Butt - wood wall between cork/back - big bore	7.8		
Wood wall between cork/side - small bore	4.1		
Wood wall between cork/side - big bore	5.3		
Butt - bottom ferrule thickness	0.4		

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Long joint - south tenon thickness	3.8		
Long joint - south tenon northern extern. Ø	28.3		
Long joint - south tenon southern extern. Ø	28.3		
Long joint - north tenon thickness	3		
Long joint - north tenon northern extern. Ø	34.4		
Long joint - north tenon southern extern. Ø	33.8		
Bell socket thickness with brass	2.3		
Brass thickness of the bell ferrule	x		
Bell ferrule height	20.5		
<b>Tone hole angle, Ø, length</b>			
Butt - tone hole Ab angle	x		
Butt - tone hole F angle	x		
Butt - tone hole F# angle	x		
Butt - tone hole Ab approx. Ø	11		
Butt - tone hole F approx. Ø	x		
Butt - tone hole F# approx. Ø	7		
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		
Long joint - tone hole E $\flat$ angle	x		
Long joint - tone hole B $\flat$ angle	x		
Long joint - tone hole D approx. Ø	x		
Long joint - tone hole E $\flat$ approx. Ø	7.6		
Long joint - tone hole B $\flat$ approx.Ø	10.9		

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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		
<b>COMPLETE - INSIDE</b>			
Wing - tone hole 1 distance from south	220		
Wing - tone hole 2 distance from south	150		
Wing - tone hole 3 distance from south	120		
Wing - tone hole A distance from south	x		
Wing - tone hole C distance from south	x		
Butt - tone hole 4 distance from north	63		
Butt - tone hole 5 distance from north	105		
Butt - tone hole 6 distance from north	138		
Butt - tone hole Ab distance from north	250		
Butt - tone hole F distance from north	233		
Butt - tone hole F $\sharp$ distance from north	206		
Butt - tone hole E distance from north	102		
Long joint - tone hole D distance from north	417		
Long joint- tone hole E $\flat$ distance from north	378		
Long joint - tone hole C distance from north	273		
Long joint - hole B $\flat$ distance from north	95.3		
Bell - vent hole distance from north	x		