

<b>4-key fagottino , Godfridus Adrianus ROTTENBURGH, Brussels, ca. 1760</b>			<b>PARTIAL MEASUREMENTS</b>
<b>BASIC - OUTSIDE</b>	<b>mm</b>	<b>mm</b>	<b>Comments</b>
<b>Joint lengths</b>			
Standing length to bell	448		
Standing length to wing joint	667		
Wing joint length	276		
Wing joint - tenon length	x		
Butt joint length	237		
Long joint length	307.5		
Long joint - south tenon length	x		
Long joint - north tenon length	x		
Bell length	173.5		
Vent hole distance from north	x		
Vent hole approx diameter	x		
<b>Tone hole distance, axis</b>			
Wing - tone hole 1 distance from north	121		
Wing - tone hole 2 distance from north	151		
Wing - tone hole 3 distance from north	128		
Butt - tone hole 4 distance from north	55		
Butt - tone hole 5 distance from north	81.5		
Butt - tone hole 6 distance from north	104.5		
Butt - tone hole F distance from north	197		
Butt - tone hole E distance from north	76.5		
Butt - tone hole Ab distance from north	183		
Butt - tone hole F# distance from north	x		

<b>4-key fagottino , Godfridus Adrianus ROTTENBURGH, Brussels, ca. 1760</b>			<b>PARTIAL MEASUREMENTS</b>
Long joint - tone hole D distance from north	37	Distance from south	
Long joint - tone hole Eb distance from north	x		
Long joint - tone hole C distance from north	138.7	Distance from south	
Long joint - tone hole Bb distance from north	47		
Wing - major axis at tone hole 1	33		
Wing - major axis at tone hole 2	x		
Wing - major axis at tone hole 3	35.8		
Butt - major axis (side to side) at tone hole 4	x		
Butt - minor axis (front to back) at tone hole 4	x		
Butt - major axis (side to side) at tone hole 5	x		
Butt - minor axis (front to back) at tone hole 5	x		
Butt - major axis (side to side) at tone hole 6	x		
Butt - minor axis (front to back) at tone hole 6	x		
Butt - major axis (side to side) at tone hole F	x		
Butt - minor axis (front to back) at tone hole F	x		
Butt - major axis (side to side) at tone hole E	x		
Butt - minor axis (front to back) at tone hole E	x		
Butt - major axis (side to side) of the bottom butt ellipse	43.2	45	Without/with ferrule
Butt - minor axis (front to back) of the bottom butt ellipse	33.73	36.2	Without/with ferrule
Butt - major axis (side to side) of the top butt ellipse	48.8		Without ferrule
Butt - minor axis (front to back) of the top butt ellipse	38.6		
Butt - cork major axis (side to side)	x		
Butt - cork minor axis (front to back)	x		
Long joint - minor axis (front to back) at tone hole D	x		

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Long joint - major axis (side to side) at tone hole D	x	
Long joint - minor axis (front to back) at tone hole Eb	x	
Long joint - major axis (side to side) at tone hole Eb	x	
Long joint - minor axis (front to back) at tone hole C	x	
Long joint - major axis (side to side) at tone hole C	x	
Long joint - minor axis (front to back) at tone hole Bb	x	
Long joint - major axis (side to side) at tone hole Bb	x	
<b>Tone hole angle, Ø, length</b>		
Wing - tone hole 1 angle	31.5° North	
Wing - tone hole 2 angle	24° South	
Wing - tone hole 3 angle	29° South	
Wing - tone hole 1 approx. Ø	2.9	
Wing - tone hole 2 approx. Ø	3.3	
Wing - tone hole 3 approx. Ø	3	
Wing - tone hole 1 approx. length	x	
Wing - tone hole 2 approx. length	x	
Wing - tone hole 3 approx. length	x	
Butt - tone hole 4 angle	31.5° North	
Butt - tone hole 5 angle	18.4° South	
Butt - tone hole 6 angle	26.5° South	
Butt - tone hole E angle	10° South	
Butt - tone hole 4 approx. Ø	5.35	
Butt - tone hole 5 approx. Ø	5.35	
Butt - tone hole 6 approx. Ø	4.6	

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Butt - tone hole E approx. Ø	7.17	7.4	
Butt - tone hole 4 approx. length	x		
Butt - tone hole 5 approx. length	x		
Butt - tone hole 6 approx. length	x		
Butt - tone hole E approx. length	x		
Long joint - tone hole C angle	x		
Long joint - tone hole C Ø	8.9	9.3	
Long joint - tone hole C approx. length	x		
<b>BASIC - INSIDE</b>			
<b>Inner bore length</b>			
Bore length	x		
Wing joint - bore length	x		
Butt - small bore length	x		
Butt - big bore length	x		
Butt - small bore socket length	30		
Butt - big bore socket length	26.7		
Butt - small bore beginning of septum	x		
Butt - big bore beginning of septum	x		
Long joint - bore length	x		
Bell - bore length	x		
<b>Inner bore beginning Ø (not socket!)</b>	<b>Min.</b>	<b>Max.</b>	
Wing bore Ø north	x		
Wing bore Ø south	11.4	11.7	
Bocal well length	16.8		

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Butt - small bore Ø north	x		
Butt - big bore Ø north	x		
Long joint Ø north	20.5	21.6	
Long joint Ø south	15.6	16.3	
Bell bore Ø north	20.37	21	
Bell bore Ø south	x		
Bell socket length	x		
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	6.3	6.4	
Bocal well ferrule thickness	x		
Wing - tenon thickness	2.2	2.8	
Wing - tenon northern extern. Ø	x		
Wing - tenon southern extern. Ø	x		
Wing - tone hole A distance from north	x		
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	x		
Wing - tone hole C angle	x		
Wing - tone hole C extern. Ø	x		

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Wing - tone hole C approx. length	x		
Butt - big socket thickness with ferrule	x		
Butt - small socket thickness with ferrule	x		
Butt - top ferrule thickness	x		
Minimum wall thickness between butt sockets	2.2		
Butt - wood space between corks - bottom	x		
Butt - big bore cork Ø - bottom	x		
Butt - small bore cork Ø - bottom	x		
Butt - wood wall between cork/front - small bore	x		
Butt - wood wall between cork/front - big bore	x		
Butt - wood wall between cork/back - small bore	x		
Butt - wood wall between cork/back - big bore	x		
Wood wall between cork/side - small bore	x		
Wood wall between cork/side - big bore	x		
Butt - bottom ferrule thickness	0.6	0.7	
Long joint - south tenon thickness	2	2.3	
Long joint - south tenon northern extern. Ø	x		
Long joint - south tenon southern extern. Ø	x		
Long joint - north tenon thickness	3	3.5	
Long joint - north tenon northern extern. Ø	x		
Long joint - north tenon southern extern. Ø	x		
Bell socket thickness with brass	3.3	3 mm without	
Brass thickness of the bell ferrule	0.3		
Bell ferrule height	10		
<b>Tone hole angle, Ø, length</b>			

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Butt - tone hole Ab angle	8.5° North		
Butt - tone hole F angle	1.5° South		
Butt - tone hole F# angle	x		
Butt - tone hole Ab approx. Ø	3.17	3.3	
Butt - tone hole F approx. Ø	6.8		
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		
Long joint - tone hole E $\flat$ angle	x		
Long joint - tone hole B $\flat$ angle	x		
Long joint - tone hole D approx. Ø	9.4	10.5	
Long joint - tone hole E $\flat$ approx. Ø	x		
Long joint - tone hole B $\flat$ approx.Ø	7.1	8.1	
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		
<b>COMPLETE - INSIDE</b>			
Wing - tone hole 1 distance from south	x		
Wing - tone hole 2 distance from south	x		
Wing - tone hole 3 distance from south	x		
Wing - tone hole A distance from south	x		
Wing - tone hole C distance from south	x		
Butt - tone hole 4 distance from north	x		

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Butt - tone hole 5 distance from north	x		
Butt - tone hole 6 distance from north	x		
Butt - tone hole Ab distance from north	x		
Butt - tone hole F distance from north	x		
Butt - tone hole F $\sharp$ distance from north	x		
Butt - tone hole E distance from north	x		
Long joint - tone hole D distance from north			
Long joint- tone hole E $\flat$ distance from north			
Long joint - tone hole C distance from north			
Long joint - hole B $\flat$ distance from north			
Bell - vent hole distance from north			
<b>EXTRAS</b>			
Wing joint - External $\emptyset$ before wing section begins	24.2		
Wing joint - Ferrule height	21.5		
Wing joint - bocal well $\emptyset$	10.6	10.7	
Wing joint - External $\emptyset$ above tenon	25.8		
Butt joint - Top ferrule height	25.9		
Butt joint - Bottom ferrule height	22.7		
Butt joint - Distance F tone hole from south	38		
Butt joint - Distance Ab tone hole from south	53		
Butt joint - Distance E tone hole from south	160		
Butt joint - Small bore socket $\emptyset$ north	18.5	18.6	
Butt joint - Big bore socket $\emptyset$ north	22	22.2	
Bell - Socket $\emptyset$ south	28.44	28.7	