

5-key fagottino, JACOBY FILS, Auch, ca. 1785

BASIC - OUTSIDE	mm	mm	Comments
Joint lengths			
Standing length to bell	636		
Standing length to wing joint	440		
Wing joint length	255		
Wing joint - tenon length	27.5		
Butt joint length	217		
Long joint length	306		
Long joint - south tenon length	29		
Long joint - north tenon length	27.1		
Bell length	170		
Vent hole distance from north	x		
Vent hole approx diameter	x		
Tone hole distance, axis			
Wing - tone hole 1 distance from north	100		
Wing - tone hole 2 distance from north	133		
Wing - tone hole 3 distance from north	161		
Butt - tone hole 4 distance from north	49		
Butt - tone hole 5 distance from north	73.5		
Butt - tone hole 6 distance from north	98		
Butt - tone hole F distance from north	181		
Butt - tone hole E distance from north	65.7		
Butt - tone hole Ab distance from north	165		
Butt - tone hole F# distance from north	x		
Long joint - tone hole D distance from north	264		

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Long joint - tone hole Eb distance from north	230		
Long joint - tone hole C distance from north	163		
Long joint - tone hole Bb distance from north	45		
Wing - major axis at tone hole 1	36.3		
Wing - major axis at tone hole 2	36.6		
Wing - major axis at tone hole 3	36.8		
Butt - major axis (side to side) at tone hole 4	50.5		
Butt - minor axis (front to back) at tone hole 4	34		
Butt - major axis (side to side) at tone hole 5	50.2		
Butt - minor axis (front to back) at tone hole 5	32		
Butt - major axis (side to side) at tone hole 6	49.5		
Butt - minor axis (front to back) at tone hole 6	32		
Butt - major axis (side to side) at tone hole F	45.2		
Butt - minor axis (front to back) at tone hole F	29		
Butt - major axis (side to side) at tone hole E	50.4		
Butt - minor axis (front to back) at tone hole E	32		
Butt - major axis (side to side) of the bottom butt ellipse	40.7	42	Without/with ferrule
Butt - minor axis (front to back) of the bottom butt ellipse	26.2	28.4	Without/with ferrule
Butt - major axis (side to side) of the top butt ellipse	49.1	50.4	Without/with ferrule
Butt - minor axis (front to back) of the top butt ellipse	31.7	30.6	Without/with ferrule
Long joint - minor axis (front to back) at tone hole D	29.5		
Long joint - major axis (side to side) at tone hole D	27.7		
Long joint - minor axis (front to back) at tone hole Eb	28.7		Approximate

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Long joint - major axis (side to side) at tone hole Eb	29.7		
Long joint - minor axis (front to back) at tone hole C	31.4		
Long joint - major axis (side to side) at tone hole C	30.6		
Long joint - minor axis (front to back) at tone hole Bb	33.1		
Long joint - major axis (side to side) at tone hole Bb	33.4		
Tone hole angle, Ø, length			
Wing - tone hole 1 angle	38° North		
Wing - tone hole 2 angle	24.5° South		
Wing - tone hole 3 angle	28.5° South		
Wing - tone hole 1 approx. Ø	3.1		
Wing - tone hole 2 approx. Ø	3.5		
Wing - tone hole 3 approx. Ø	4.1		
Wing - tone hole 1 approx. length	19.4		
Wing - tone hole 2 approx. length	18.2		
Wing - tone hole 3 approx. length	17		
Butt - tone hole 4 angle	20.5° North		
Butt - tone hole 5 angle	19° South		
Butt - tone hole 6 angle	23.5° South		
Butt - tone hole E angle	2.5° North		
Butt - tone hole 4 approx. Ø	4.8		
Butt - tone hole 5 approx. Ø	4.6		
Butt - tone hole 6 approx. Ø	4.1		
Butt - tone hole E approx. Ø	6		
Butt - tone hole 4 approx. length	15.4		
Butt - tone hole 5 approx. length	16.4		

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Butt - tone hole 6 approx. length	15.3		
Butt - tone hole E approx. length	11		
Butt - cork major axis (side to side)	28.8		
Butt - cork minor axis (front to back)	13.5		
Long joint - tone hole C angle	3° South		
Long joint - tone hole C Ø	6.1		
Long joint - tone hole C approx. length	7		
BASIC - INSIDE			
Inner bore length			
Bore length	1077.9		
Wing bore length	252		
Butt - small bore length	203		
Butt - big bore length	203		
Butt - small bore socket length	28.5		
Butt - big bore socket length	28.7		
Butt - small bore beginning of septum	202		
Butt - big bore beginning of septum	199		
Long joint bore length	307		
Bell bore length	172		
Inner bore beginning Ø (not socket!)	Min.	Max.	
Wing bore Ø north	6.3	6.4	
Wing bore Ø south	10.8		
Bocal well length	14.2	14.5	
Butt - small bore Ø north	12	12.2	
Butt - big bore Ø north	17	17.4	

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Long joint Ø north	22	22.8	
Long joint Ø south	15.9	16.8	
Bell bore Ø north	22		
Bell bore Ø south	23	23.3	
Bell socket length	26.9	27.2	
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		
COMPLETE - OUTSIDE	Min.	Max.	
Bocal well thickness with ferrule	3.5	4.7	Without/with ferrule
Bocal well ferrule thickness	1.2		
Wing - tenon thickness	2.9	3.2	Without/with ferrule
Wing - tenon northern extern. Ø	17.5		
Wing - tenon southern extern. Ø	17.1		
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 extern. Ø	x		
Wing - tone hole C approx. length	x		
Butt - big socket thickness with ferrule	3.1	3.8	Without/with ferrule

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Butt - small socket thickness with ferrule	2.3	2.9	Without/with ferrule
Butt - top ferrule thickness	0.5		
Minimum wall thickness between butt sockets	2.6		
Butt - wood space between corks - bottom	x		One cork
Butt - big bore cork Ø - bottom	12.5		
Butt - small bore cork Ø - bottom	12.5		
Butt - wood wall between cork/front - small bore	5	6.2	Without/with ferrule
Butt - wood wall between cork/front - big bore	4.9	6.2	Without/with ferrule
Butt - wood wall between cork/back - small bore	5.8	7	Without/with ferrule
Butt - wood wall between cork/back - big bore	5.3	7.2	Without/with ferrule
Wood wall between cork/side - small bore	5.8	6.8	Without/with ferrule
Wood wall between cork/side - big bore	5.4	5.8	Without/with ferrule
Butt - bottom ferrule thickness	0.6		
Long joint - south tenon thickness	2.7	2.8	
Long joint - south tenon northern extern. Ø	22.2		
Long joint - south tenon southern extern. Ø	21.6	21.7	
Long joint - north tenon thickness	2.6		
Long joint - north tenon northern extern. Ø	27.1	27.4	
Long joint - north tenon southern extern. Ø	27.4	27.6	
Bell socket thickness with brass	2.1	3	Without/with ferrule
Brass thickness of the bell ferrule	0.8		
Bell ferrule height	13.3		
Tone hole angle, Ø, length			
Butt - tone hole Ab angle	x		
Butt - tone hole F angle	x		
Butt - tone hole F# angle	x		

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Butt - tone hole Ab approx. Ø	x		
Butt - tone hole F approx. Ø	x		
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	6.2		
Long joint - tone hole E \flat approx. Ø	5.8		
Long joint - tone hole B \flat approx.Ø	6.6		
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	163		
Wing - tone hole 2 distance from south	113		
Wing - tone hole 3 distance from south	85		
Wing - tone hole A distance from south	x		
Wing - tone hole C distance from south	x		
Butt - tone hole 4 distance from north	43		
Butt - tone hole 5 distance from north	77		
Butt - tone hole 6 distance from north	102		
Butt - tone hole Ab distance from north	167		
Butt - tone hole F distance from north	180		

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Butt - tone hole F# distance from north	x		
Butt - tone hole E distance from north	65		
Long joint - tone hole D distance from north	265		
Long joint- tone hole E \flat distance from north	232		
Long joint - tone hole C distance from north	165		
Long joint - hole B \flat distance from north	45		
Bell - vent hole distance from north	x		