

7-key fagottino, Johann Peter LEIBERZ, Koblenz, 1830–35			
BASIC - OUTSIDE	mm	mm	Comments
Joint lengths			Only partial measurements
Standing length to bell	670		With ferrules
Standing length to wing joint	472		With ferrules
Wing joint length	291.5		
Wing joint - tenon length	24.7		
Butt joint length	205		With ferreules
Long joint length	338.5		
Long joint - south tenon length	26		
Long joint - north tenon length	24		
Bell length	177.5		
Vent hole distance from north	x		
Vent hole approx diameter	x		
Tone hole distance, axis			
Wing - tone hole 1 distance from north	148		
Wing - tone hole 2 distance from north	184.5		
Wing - tone hole 3 distance from north	222		
Butt - tone hole 4 distance from north	42		
Butt - tone hole 5 distance from north	74		
Butt - tone hole 6 distance from north	102.5		
Butt - tone hole F distance from north	x		
Butt - tone hole E distance from north	53		
Butt - tone hole Ab distance from north	x		
Butt - tone hole F# distance from north	x		
Long joint - tone hole D distance from north	x		
Long joint - tone hole Eb distance from north	x		

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Long joint - tone hole C distance from north	202.5		
Long joint - tone hole Bb distance from north	x		
Wing - major axis at tone hole 1	x		
Wing - major axis at tone hole 2	x		
Wing - major axis at tone hole 3	x		
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	x		
Butt - minor axis (front to back) of the bottom butt ellipse	x		
Butt - major axis (side to side) of the top butt ellipse	x		
Butt - minor axis (front to back) of the top butt ellipse	x		
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		
Long joint - major axis (side to side) at tone hole D	x		

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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		
Tone hole angle, Ø, length			
Wing - tone hole 1 angle	x		
Wing - tone hole 2 angle	x		
Wing - tone hole 3 angle	x		
Wing - tone hole 1 approx. Ø	x		
Wing - tone hole 2 approx. Ø	x		
Wing - tone hole 3 approx. Ø	x		
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	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	x		
Butt - tone hole 5 approx. Ø	x		

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Butt - tone hole 6 approx. Ø	x	
Butt - tone hole E approx. Ø	x	
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	x	
Long joint - tone hole C approx. length	x	
BASIC - INSIDE		
Inner bore length		
Bore length	1145.5	
Wing joint - bore length	293	
Butt - small bore length	194	
Butt - big bore length	194	
Butt - small bore socket length	26	
Butt - big bore socket length	27	
Butt - small bore beginning of septum	180	
Butt - big bore beginning of septum	180	
Long joint - bore length	340	
Bell - bore length	178	
Inner bore beginning Ø (not socket!)	Min.	Max.
Wing bore Ø north	x	
Wing bore Ø south	x	
Bocal well length	18	
Butt - small bore Ø north	x	

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Butt - big bore Ø north	x		
Long joint Ø north	x		
Long joint Ø south	x		
Bell bore Ø north	x		
Bell bore Ø south	x		
Bell socket length	25.5		
Bocal Ø at the beginning	3.9	4	
Bocal thickness at the beginning	0.2	0.3	
Bocal Ø at the tenon	6.8	7.1	
Bocal thickness at the tenon	0.3	0.4	
Bocal length (along top)	242.5		Bocal hole at 171
COMPLETE - OUTSIDE	Min.	Max.	
Bocal well thickness with ferrule	x		
Bocal well ferrule thickness	x		
Wing - tenon thickness	x		
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		
Wing - tone hole C approx. length	x		
Butt - big socket thickness with ferrule	x		

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Butt - small socket thickness with ferrule	x		
Butt - top ferrule thickness	x		
Minimum wall thickness between butt sockets	x		
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	x		
Long joint - south tenon thickness	x		
Long joint - south tenon northern extern. Ø	x		
Long joint - south tenon southern extern. Ø	x		
Long joint - north tenon thickness	x		
Long joint - north tenon northern extern. Ø	x		
Long joint - north tenon southern extern. Ø	x		
Bell socket thickness with brass	x		
Brass thickness of the bell ferrule	x		
Bell ferrule height	x		
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	x		
Long joint - tone hole E \flat approx. Ø	x		
Long joint - tone hole B \flat approx.Ø	x		
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	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		
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		

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