

7-key fagottino, BONACCORSI, Barga, ca. 1815

BASIC - OUTSIDE			Comments
Joint lengths	Min.	Max.	
Standing length to bell	630.5		
Standing length to wing joint	435.5		
Wing joint length	247		
Wing joint - tenon length	24.5		
Butt joint length	211.5		
Long joint length	301.5		
Long joint - south tenon length	25.7		
Long joint - north tenon length	23.8		
Bell length	165	167	Ferrule extends
Vent hole distance from north	x		
Vent hole approx diameter	x		
Tone hole distance, axis			
Wing - tone hole 1 distance from north	117		
Wing - tone hole 2 distance from north	139.5		
Wing - tone hole 3 distance from north	162		
Butt - tone hole 4 distance from north	49		
Butt - tone hole 5 distance from north	71.5		
Butt - tone hole 6 distance from north	95		
Butt - tone hole F distance from north	165.5		
Butt - tone hole E distance from north	65		
Butt - tone hole Ab distance from north	176		
Butt - tone hole F# distance from north	133		
Long joint - tone hole D distance from north	269		
Long joint - tone hole Eb distance from north	233.5		
Long joint - tone hole C distance from north	166.5		
Long joint - tone hole Bb distance from north	57		

7-key fagottino, BONACCORSI, Barga, ca. 1815

Wing - major axis at tone hole 1	33		Minor axis 18.7 mm
Wing - major axis at tone hole 2	33		Minor axis 18.9 mm
Wing - major axis at tone hole 3	33.2		Minor axis 19 mm
Butt - major axis (side to side) at tone hole 4	41.6		
Butt - minor axis (front to back) at tone hole 4	33.7		
Butt - major axis (side to side) at tone hole 5	41.3		
Butt - minor axis (front to back) at tone hole 5	33.3		
Butt - major axis (side to side) at tone hole 6	40.8		
Butt - minor axis (front to back) at tone hole 6	32.5		
Butt - major axis (side to side) at tone hole F	37.7		
Butt - minor axis (front to back) at tone hole F	29.5		
Butt - major axis (side to side) at tone hole E	41.3		
Butt - minor axis (front to back) at tone hole E	33.5		
Butt - major axis (side to side) of the bottom butt ellipse	41.1	42.1	Min. without / max. with ferrule
Butt - minor axis (front to back) of the top butt ellipse	33	35.9	Min. without / max. with ferrule
Butt - major axis (side to side) of the bottom butt ellipse	34.3	35.3	Min. without / max. with ferrule
Butt - minor axis (front to back) of the top butt ellipse	28.2	29.2	Min. without / max. with ferrule
Butt - tone hole 6 approx. length	18		
Butt - tone hole E approx. length	12		
Long joint - major axis (front to back) at tone hole D	25.3		With platform
Long joint - minor axis (side to side) at tone hole D	24		

7-key fagottino, BONACCORSI, Barga, ca. 1815

Long joint - major axis (front to back) at tone hole Eb	26.2		With platform
Long joint - minor axis (side to side) at tone hole Eb	25.3		
Long joint - major axis (front to back) at tone hole C	28.2		
Long joint - minor axis (side to side) at tone hole C	26.9		With platform
Long joint - major axis (front to back) at tone hole Bb	30.7		With platform
Long joint - minor axis (side to side) at tone hole Bb	29.1		With platform
Tone hole angle, Ø, length			
Wing - tone hole 1 angle	27° N		Wider outside
Wing - tone hole 2 angle	25.5° S		
Wing - tone hole 3 angle	28.5° S		
Wing - tone hole 1 approx. Ø	3.5		
Wing - tone hole 2 approx. Ø	4.1		
Wing - tone hole 3 approx. Ø	3.4		
Wing - tone hole 1 approx. length	18.3		
Wing - tone hole 2 approx. length	17.7		
Wing - tone hole 3 approx. length	18.9		
Butt - tone hole 4 angle	26.5° N		
Butt - tone hole 5 angle	25° N		
Butt - tone hole 6 angle	5° S		
Butt - tone hole E angle	33° S		
Butt - tone hole 4 approx. Ø	5.7		
Butt - tone hole 5 approx. Ø	4.8		

7-key fagottino, BONACCORSI, Barga, ca. 1815

Butt - tone hole 6 approx. Ø	4.6		
Butt - tone hole E approx. Ø	6		
Butt - cork major axis (side to side)	x		
Butt - cork minor axis (front to back)	x		
Butt - tone hole 4 approx. length	17		
Butt - tone hole 5 approx. length	17		
Long joint - tone hole C angle	17° N		
Long joint - tone hole C Ø	6.2		
Long joint - tone hole C approx. length	8		
BASIC - INSIDE			
Inner bore length			
Bore length	1070.4		
Wing bore length	248		
Butt - big bore length	201		
Butt - small bore length	201		
Butt - big bore socket length	25.9		
Butt - small bore socket length	24.9		
Butt - big bore beginning of septum	186		
Butt - small bore beginning of septum	186.5		
Long joint length	302.5		
Bell length	167	165	With/without ferrule
Inner bore beginning Ø (not socket)	Min.	Max.	
Wing bore Ø north	5.8	6	Bocal well Ø north 7.7–7.8 mm
Wing bore Ø south	9.2	9.5	
Bocal well length	21	23	
Butt - big bore Ø north	13.4	13.7	
Butt - small bore Ø north	9.45	9.6	
Long joint Ø north	19.1	19.5	

7-key fagottino, BONACCORSI, Barga, ca. 1815

Long joint Ø south	13.5	13.7	
Bell bore Ø north	18.6	19.2	
Bell bore Ø south	19.6	20	
Bell socket length	23.6	24	
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 the top)	x		
COMPLETE - OUTSIDE	Min.	Max.	
Bocal well thickness with ferrule	3.8	4	2.9/3.4 without ferrule
Bocal well ferrule thickness	0.3		
Wing - tenon thickness	2.4	2.5	
Wing - tenon northern extern. Ø	14.5	14.8	
Wing - tenon southern extern. Ø	x		
Wing - tone hole A distance from north	40.5		
Wing - tone hole A angle	1.5		
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 approx. Ø	x		
Wing - tone hole C approx. length	x		
Butt - big socket thickness with ferrule	2		
Butt - small socket thickness with ferrule	2.1		
Butt - top ferrule thickness	0.5		Ferrule very loose, especially in front and back
Minimum wall thickness between butt sockets	3.3		
Butt - wood space between corks - bottom	x		

7-key fagottino, BONACCORSI, Barga, ca. 1815

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		
Butt - wood wall between cork/side - small bore			
Butt - wood wall between cork/side - big bore			
Butt - bottom ferrule thickness	0.5		Ferrule very loose, especially in front and back
Long joint - south tenon thickness	2.6	2.3	
Long joint - south tenon northern extern. Ø	x	x	
Long joint - south tenon southern extern. Ø	24.7	24.4	
Long joint - north tenon thickness	2.6	2.4	
Long joint - north tenon northern extern. Ø	18.7	18.6	
Long joint - north tenon southern extern. Ø	x	x	
Bell socket thickness with brass	2.6		
Brass thickness of the bell ferrule	0.5		
Bell ferrule height	23.5		
Tone hole angle, Ø, length			
Butt - tone hole Ab angle	x		
Butt - tone hole F angle	x		
Butt - tone hole F# angle	17° S		
Butt - tone hole Ab approx. Ø	6.3		
Butt - tone hole F approx. Ø	x		
Butt - tone hole F# approx. Ø	4		
Butt - tone hole Ab approx. length	x		

7-key fagottino, BONACCORSI, Barga, ca. 1815

Butt - tone hole F approx. length	x		
Butt - tone hole F# approx. length	10		
Long joint - tone hole D angle	x		
Long joint - tone hole Eb angle	4° N		
Long joint - tone hole B \flat angle	x		
Long joint - tone hole D approx. \emptyset	7.9		
Long joint - tone hole Eb approx. \emptyset	4.4		
Long joint - tone hole B \flat approx. \emptyset	10.1		
Long joint - tone hole D approx. length	x		
Long joint - tone hole Eb approx. length	6.6		
Long joint - tone hole B \flat approx. length	x		
COMPLETE - INSIDE			
Wing - tone hole 1 distance from south	139		
Wing - tone hole 2 distance from south	103		
Wing - tone hole 3 distance from south	78		
Wing - tone hole A distance from south	208		
Wing - tone hole C distance from south	x		
Butt - tone hole 4 distance from north	41		
Butt - tone hole 5 distance from north	64		
Butt - tone hole 6 distance from north	96		
Butt - tone hole Ab distance from north	177		Ab hole in big bore
Butt - tone hole F distance from north	165		
Butt - tone hole F# distance from north	136		
Butt - tone hole E distance from north	70		
Long joint- tone hole D distance from north	269		
Long joint - tone hole Eb distance from north	235.5		
Long joint - tone hole C distance from north	166		
Long joint - hole B \flat distance from north	57		

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Bell - vent hole distance from north	x		
Extras			
Wing - major axis (side to side) at tone hole A	17.3		
Wing - minor axis (front to back) at tone hole A	17		
Bell socket thickness with brass without ferrule	1.6		
Bell ferrule thickness	0.3		