

<b>7-key fagottino, CASTLAS, Turin, ca.1800</b>			
<b>BASIC - OUTSIDE</b>			<b>Comments</b>
<b>Joint lengths</b>	<b>Min.</b>	<b>Max.</b>	
Standing length to bell	599		
Standing length to wing joint	373	400	Tuning extension in wing joint closed / opened
Wing joint length	185	210	External brass slide length = 36
Wing joint - tenon length	26.2		
Butt joint length	213		
Long joint length	285		
Long joint - south tenon length	30.4		
Long joint - north tenon length	23.4		
Bell length	152.4		
Vent hole distance from north	x		
Vent hole approx diameter	x		
<b>Tone hole distance, axis</b>			
Wing - tone hole 1 distance from north	55		
Wing - tone hole 2 distance from north	78		
Wing - tone hole 3 distance from north	103		
Butt - tone hole 4 distance from north	48		
Butt - tone hole 5 distance from north	75		
Butt - tone hole 6 distance from north	101		
Butt - tone hole F distance from north	176		
Butt - tone hole E distance from north	66		
Butt - tone hole Ab distance from north	189.5		
Butt - tone hole F# distance from north	133.5		
Long joint - tone hole D distance from north	247		

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Long joint - tone hole Eb distance from north	216.5		
Long joint - tone hole C distance from north	155		
Long joint - tone hole Bb distance from north	35		
Wing - major axis at tone hole 1	39.4		
Wing - major axis at tone hole 2	39.6		
Wing - major axis at tone hole 3	39.2		
Butt - major axis (side to side) at tone hole 4	54.5		
Butt - minor axis (front to back) at tone hole 4	39.5		
Butt - major axis (side to side) at tone hole 5	54.5		
Butt - minor axis (front to back) at tone hole 5	39		
Butt - major axis (side to side) at tone hole 6	54		
Butt - minor axis (front to back) at tone hole 6	39		
Butt - major axis (side to side) at tone hole F	48		
Butt - minor axis (front to back) at tone hole F	35.6		
Butt - major axis (side to side) at tone hole E	55		
Butt - minor axis (front to back) at tone hole E	39		
Butt - major axis (side to side) of the bottom butt ellipse	43.8	45.6	Min. without / max. with ferrule
Butt - minor axis (front to back) of the bottom butt ellipse	31.5	33.3	Min. without / max. with ferrule
Butt - major axis (side to side) of the top butt ellipse	55	56.8	Min. without / max. with ferrule
Butt - minor axis (front to back) of the top butt ellipse	38.2	40	Min. without / max. with ferrule
Butt - cork major axis (side to side)	34		One cork
Butt - cork minor axis (front to back)	14.4		
Long joint - minor axis (front to back) at tone hole D	30		
Long joint - major axis (side to side) at tone hole D	30		

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Long joint - minor axis (front to back) at tone hole Eb	30.7		
Long joint - major axis (side to side) at tone hole Eb	31.5		
Long joint - minor axis (front to back) at tone hole C	33.5		
Long joint - major axis (side to side) at tone hole C	33		
Long joint - minor axis (front to back) at tone hole Bb	36.1		
Long joint - major axis (side to side) at tone hole Bb	35		
<b>Tone hole angle, Ø, length</b>			
Wing - tone hole 1 angle	17° North		
Wing - tone hole 2 angle	31° South		
Wing - tone hole 3 angle	25° South		
Wing - tone hole 1 approx. Ø	3.5		
Wing - tone hole 2 approx. Ø	4.8		
Wing - tone hole 3 approx. Ø	4.5		
Wing - tone hole 1 approx. length	19.4		
Wing - tone hole 2 approx. length	20.3		
Wing - tone hole 3 approx. length	20.7		
Butt - tone hole 4 angle	13° North		
Butt - tone hole 5 angle	16° South		
Butt - tone hole 6 angle	13° South		
Butt - tone hole E angle	16° South		
Butt - tone hole 4 approx. Ø	6.2		
Butt - tone hole 5 approx. Ø	6.3		
Butt - tone hole 6 approx. Ø	5.4		
Butt - tone hole E approx. Ø	7.4		

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Butt - tone hole 4 approx. length	17		
Butt - tone hole 5 approx. length	16.6		
Butt - tone hole 6 approx. length	16.4		
Butt - tone hole E approx. length	13.6		
Long joint - tone hole C angle	2° North		
Long joint - tone hole C Ø	7	7.8	
Long joint - tone hole C approx. length	57		
<b>BASIC - INSIDE</b>			
<b>Inner bore length</b>			
Bore length	971.5	996.5	Tuning extension in wing joint closed / opened
Wing bore length	186	211	Tuning extension in wing joint closed / opened
Butt - small bore length	200		
Butt - big bore length	199		
Butt - small bore socket length	26.8	27.2	
Butt - big bore socket length	29.4	29.9	
Butt - small bore beginning of septum	185		
Butt - big bore beginning of septum	185		
Long joint length	288.5		
Bell length	153		
<b>Inner bore beginning Ø (not socket!)</b>	<b>Min.</b>	<b>Max.</b>	
Wing bore Ø north	11.8		
Wing bore Ø south	9.9		
Bocal well length	19		
Butt - small bore Ø north	12.7		

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Butt - big bore Ø north	18.4		
Long joint Ø north	24.3	24.6	
Long joint Ø south	18.6		
Bell bore Ø north	24.7	26.1	
Bell bore Ø south	23.6	24.5	
Bell socket length	23.8		
Bocal Ø at the beginning	3.5	4.3	
Bocal thickness at the beginning	0.4		
Bocal Ø at the tenon	8.4	8.2	
Bocal thickness at the tenon	0.5		
Bocal length (along top)	187		
<b>COMPLETE - OUTSIDE</b>	<b>Min.</b>	<b>Max.</b>	
Bocal well thickness with ferrule	4.9		
Bocal well ferrule thickness	0.9		
Wing - tenon thickness	3.3		
Wing - tenon northern extern. Ø	18.6		
Wing - tenon southern extern. Ø	x		
Wing - tone hole A distance from north	20.5		
Wing - tone hole A angle	0		
Wing - tone hole A approx. Ø	2.2		
Wing - tone hole A approx. length	2.2		
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		

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Butt - big socket thickness with ferrule	3.2		
Butt - small socket thickness with ferrule	3		
Butt - top ferrule thickness	0.9		
Minimum wall thickness between butt sockets	4.2		
Butt - wood space between corks - bottom	x		
Butt - big bore cork Ø - bottom	16.4		One cork
Butt - small bore cork Ø - bottom	15.5		
Butt - wood wall between cork/front - small bore	4.5		
Butt - wood wall between cork/front - big bore	4.7		
Butt - wood wall between cork/back - small bore	8.7		
Butt - wood wall between cork/back - big bore	8.3		
Wood wall between cork/side - small bore	4.4		Without ferrule
Wood wall between cork/side - big bore	4.4		Without ferrule
Butt - bottom ferrule thickness	0.9		
Long joint - south tenon thickness	3.1	3.4	
Long joint - south tenon northern extern. Ø	29.6	29.8	
Long joint - south tenon southern extern. Ø	26.1	16.2	
Long joint - north tenon thickness	2.1	2.6	
Long joint - north tenon northern extern. Ø	28.7	28.9	
Long joint - north tenon southern extern. Ø	29.6	3	
Bell socket thickness with brass	2.8	3.1	
Brass thickness of the bell ferrule	0.9		
Bell ferrule height	15.8	16.1	
<b>Tone hole angle, Ø, length</b>			
Butt - tone hole Ab angle	9° North		
Butt - tone hole F angle	8° North		

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Butt - tone hole F# angle	13° South		
Butt - tone hole Ab approx. Ø	6.9		
Butt - tone hole F approx. Ø	7.4		
Butt - tone hole F# approx. Ø	4.6		
Butt - tone hole Ab approx. length	11.3		Ab hole in big bore
Butt - tone hole F approx. length	12.8		
Butt - tone hole F# approx. length	x		
Long joint - tone hole D angle	6° North		
Long joint - tone hole E $\flat$ angle	2° North		
Long joint - tone hole B $\flat$ angle	2° North		
Long joint - tone hole D approx. Ø	9.4	10	
Long joint - tone hole E $\flat$ approx. Ø	5.7		
Long joint - tone hole B $\flat$ approx.Ø	9.8	10.5	
Long joint - tone hole D approx. length	6.1		
Long joint - tone hole E $\flat$ approx. length	5.3		
Long joint - tone hole B $\flat$ approx. length	6.5		
<b>COMPLETE - INSIDE</b>			
Wing - tone hole 1 distance from south	131		
Wing - tone hole 2 distance from south	108		
Wing - tone hole 3 distance from south	84		
Wing - tone hole A distance from south	160		Tuning slide closed
Wing - tone hole C distance from south	x		
Butt - tone hole 4 distance from north	40		
Butt - tone hole 5 distance from north	77		
Butt - tone hole 6 distance from north	102.5		
Butt - tone hole Ab distance from north	186		

<b>7-key <i>fagottino</i>, CASTLAS, Turin, ca.1800</b>			
Butt - tone hole F distance from north	172		
Butt - tone hole F $\sharp$ distance from north	133		
Butt - tone hole E distance from north	67		
Long joint - tone hole D distance from north	245		
Long joint- tone hole E $\flat$ distance from north	215.5		
Long joint - tone hole C distance from north	153		
Long joint - hole B $\flat$ distance from north	34.5		
Bell - vent hole distance from north	x		