6-key fagottino, GRENSER & WIESNER, Dresden, ca 1824			
BASIC - OUTSIDE			
Joint lengths	**mm**	**mm**	**Comments**
Standing length to bell	670		Incl. ferrule. 674.5 mm with bottom pins (real standing length) Ferrule adds 1.7mm to 670 mm. Pin length 4.5 mm
Standing length to wing joint	449.5		Incl. ferrule. 453 mm with bottom pins (real standing length) Ferrule adds 1.7 mm to 449.5 mm. Pin length 4.5 mm
Wing joint length	245		
Wing joint - tenon length	28.2		
Butt joint length	232		
Long joint length	309		
Long joint - south tenon length	30.5		
Long joint - north tenon length	24.4		
Bell length	184.5		
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	142.5		
Wing - tone hole 3 distance from north	171.5		
Butt - tone hole 4 distance from north	56		
Butt - tone hole 5 distance from north	80		

6-key fagottino, GRENSER & WIESNER, Dresden, ca 1824			
Butt - tone hole 6 distance from north	106		
Butt - tone hole Ab distance from north	179		
Butt - tone hole F distance from north	181		
Butt - tone hole E distance from north	68		
Butt - tone hole F# distance from north	122		
Long joint - tone hole D distance from north	266.5		
Long joint - tone hole Eb distance from north	235		On front (L4)
Long joint - tone hole C distance from north	175		
Long joint - tone hole Bb distance from north	55		
Wing - major axis at tone hole 1	36.8		Minor axis 26.1 mm
Wing - major axis at tone hole 2	37.2		Minor axis 26.3 mm
Wing - major axis at tone hole 3	35		Minor axis 25.8 mm
Butt - major axis (side to side) at tone hole 4	52.8		
Butt - minor axis (front to back) at tone hole 4	35.7		
Butt - major axis (side to side) at tone hole 5	51.4		
Butt - minor axis (front to back) at tone hole 5	34.4		
Butt - major axis (side to side) at tone hole 6	50		
Butt - minor axis (front to back) at tone hole 6	34.2		
Butt - major axis (side to side) at tone hole F	46		
Butt - minor axis (front to back) at tone hole F	31.9		
Butt - major axis (side to side) at tone hole E	52.2		
Butt - minor axis (front to back) at tone hole E	35.1		
Butt - major axis (side to side) of the bottom butt ellipse	42.5		Incl. ferrule
Butt - minor axis (front to back) of the bottom butt ellipse	34.4		Incl. ferrule
Butt - major axis (side to side) of the top butt ellipse	53.9		Incl. ferrule

6-key fagottino, GRENSER & WIESNER, Dresden, ca 1824			
Butt - minor axis (front to back) of the top butt ellipse	36.8		Incl. ferrule
Butt - cork major axis (side to side)	32.1		Outside edge: two corks
Butt - cork minor axis (front to back)	15.7		Distance between holes of pins
Long joint - major axis (front to back) at tone hole D	32.4		Incl. platform
Long joint - minor axis (side to side) at tone hole D	29.7		
Long joint - major axis (front to back) at tone hole Eb	31.8		Incl. platform
Long joint - minor axis (side to side) at tone hole Eb	30.5		
Long joint - major axis (front to back) at tone hole C	33.8		Incl. platform and tone hole inset
Long joint - minor axis (side to side) at tone hole C	31.5		
Long joint - major axis (front to back) at tone hole Bb	34.6		Incl. platform
Long joint - minor axis (side to side) at tone hole Bb	34.4		
Tone hole angle, Ø, length			
Wing - tone hole 1 angle	North		
Wing - tone hole 2 angle	South		
Wing - tone hole 3 angle	uth		
Wing - tone hole 1 approx. Ø	3		
Wing - tone hole 2 approx. Ø	4		
Wing - tone hole 3 approx. Ø	3.5		
Wing - tone hole 1 approx. length	17.5		
Wing - tone hole 2 approx. length	17.5		
Wing - tone hole 3 approx. length	19.3		
Butt - tone hole 4 angle	North		
Butt - tone hole 5 angle	South		
Butt - tone hole 6 angle	South		

6-key fagottino, GRENSER & WIESNER, Dresden, ca 1824			
Butt - tone hole E angle	South		
Butt - tone hole 4 approx. Ø	5.4		
Butt - tone hole 5 approx. Ø	5.1		
Butt - tone hole 6 approx. Ø	4		
Butt - tone hole E approx. Ø	7		
Butt - tone hole 4 approx. length	15		
Butt - tone hole 5 approx. length	14		
Butt - tone hole 6 approx. length	16		
Butt - tone hole E approx. length	13		
Long joint - tone hole C approx. Ø	7.4		With ivory tone hole inset (0.5)
Long joint - tone hole C angle	0°		
Long joint - tone hole C approx. length	6.3		
BASIC - INSIDE			
Inner bore length			
Bore length	1106.6		
Wing bore length	246.5		
Butt - big bore length	211		
Butt - small bore length	211.5		
Butt - big bore socket length	30.8		
Butt - small bore socket length	28.4		
Butt - big bore beginning of septum	192		
Butt - small bore beginning of septum	192.5		
Long joint bore length	310.5		
Bell bore length	185.5		
Inner bore beginning Ø (not socket!)	**Min.**	**Max.**	

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Wing bore Ø north	5.8		Bocal well Ø north 9–9.2 mm
Wing bore Ø south	10	10.5	
Bocal well length	16.8	17	
Butt - big bore Ø north	18.7	18.8	
Butt - small bore Ø north	11.3	11.4	
Long joint Ø north	25.6	26.4	
Long joint Ø south	18	18.2	
Bell bore Ø north	23	23.3	
Bell bore Ø south	26.9	27.3	
Bell socket length	24	24.4	
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	5.2	5.4	
Bocal well ferrule thickness	0.5		
Wing - tenon thickness	3.2	3.4	
Wing - tenon northern extern. Ø	17.5	17.7	
Wing - tenon southern extern. Ø	14		
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		

6-key fagottino, GRENSER & WIESNER, Dresden, ca 1824			
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, side	3.3		
Butt - small socket thickness with ferrule	3.5		
Butt - top ferrule thickness	0.5		
Minimum wall thickness between butt sockets	2.6		
Butt - wood space between corks - bottom	3.2		
Butt - big bore cork Ø - bottom	14	14.6	
Butt - small bore cork Ø - bottom	14.5	15	
Wood wall between cork/front - small bore	5.8		
Wood wall between cork/front - big bore	6		
Wood wall between cork/back - small bore	5.6		
Wood wall between cork/back - big bore	6		
Wood wall between cork/side - small bore	4		
Wood wall between cork/side - big bore	4.4		
Butt - bottom ferrule thickness	0.5		
Long joint - south tenon thickness	2.6	2.7	
Long joint - south tenon northern extern. Ø	24.6	25.7	
Long joint - south tenon southern extern. Ø	23.8	23.9	
Long joint - north tenon thickness	2.5	2.9	
Long joint - north tenon northern extern. Ø	30.9	31	
Long joint - north tenon southern extern. Ø	31.3	31.4	
Bell socket thickness with ferrule	1.3	1.5	
Brass thickness of the bell ferrule	0.5		

6-key fagottino, GRENSER & WIESNER, Dresden, ca 1824			
Bell ferrule length	17.8		
Tone hole angle, Ø, length			
Butt - tone hole Ab angle	South		
Butt - tone hole F angle	2° North		
Butt - tone hole F♯ angle	2° North		
Butt - tone hole Ab approx. Ø	3		
Butt - tone hole F approx. Ø	6.2		
Butt - tone hole F♯ approx. Ø	4.5		
Butt - tone hole Ab approx. length	9		
Butt - tone hole F approx. length	10		
Butt - tone hole F# approx. length	9.5		
Long joint - tone hole D angle	0°		
Long joint - tone hole E ♭ angle	5° North		
Long joint - tone hole B ♭ angle	0°		
Long joint - tone hole D approx. Ø	8		
Long joint - tone hole E ♭ approx. Ø	5.7		
Long joint - tone hole B ♭ approx.Ø	8.7		
Long joint - tone hole D approx. length	6.5		
Long joint - tone hole Eb approx. length	6		
Long joint - tone hole Bb approx. length	5.5		
COMPLETE - INSIDE			
Wing - tone hole 1 distance from south	138		
Wing - tone hole 2 distance from south	91.5		
Wing - tone hole 3 distance from south	58.5		
Wing - tone hole A distance from south	x		
Wing - tone hole C distance from south	x		

6-key fagottino, GRENSER & WIESNER, Dresden, ca 1824			
Butt - tone hole 4 distance from north	42.5		
Butt - tone hole 5 distance from north	82		
Butt - tone hole 6 distance from north	115.5		
Butt - tone hole Ab distance from north	181.5		
Butt - tone hole F distance from north	180		
Butt - tone hole F♯ distance from north	120		
Butt - tone hole E distance from north	68.5		
Long joint - tone hole D distance from north	265.5		
Long joint- tone hole E ♭ distance from north	234		
Long joint - tone hole C distance from north	174.5		
Long joint - hole B ♭ distance from north	54.5		
Bell - vent hole distance from north	x		