

5-key tenoroon ANONYMOUS 12, (Germany), ca. 1815

BASIC - OUTSIDE	mm	mm	Comments
Joint lengths			Only partial measurements
Standing length to bell	752		With ferrule
Standing length to wing joint	534		With ferrule
Wing joint length	279		No ferrule
Wing joint - tenon length	32		
Butt joint length	286		With ferrule
Long joint length	368		
Long joint - south tenon length	36.5		
Long joint - north tenon length	25.4		
Bell length	158		With ferrule
Vent hole distance from north	x		
Vent hole approx diameter	x		
Tone hole distance, axis			
Wing - tone hole 1 distance from north	133		
Wing - tone hole 2 distance from north	154.5		
Wing - tone hole 3 distance from north	176		
Butt - tone hole 4 distance from north	75.5		
Butt - tone hole 5 distance from north	98		
Butt - tone hole 6 distance from north	120		
Butt - tone hole F distance from north	x		
Butt - tone hole E distance from north	92		
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		
Long joint - tone hole C distance from north	222		
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		

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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		
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		

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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		
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	1299.5		

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Wing joint - bore length	281		
Butt - small bore length	273		Cork is far inside
Butt - big bore length	278		
Butt - small bore socket length	32		
Butt - big bore socket length	37		
Butt - small bore beginning of septum	251		
Butt - big bore beginning of septum	251		
Long joint - bore length	368		
Bell - bore length	160.5		
Inner bore beginning Ø (not socket!)	Min.	Max.	
Wing bore Ø north	x		
Wing bore Ø south	x		
Bocal well length	35		Estimated
Butt - small bore Ø north	x		
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	27		
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	6.3	6.6	Without ferrule
Bocal well ferrule thickness	x		None
Wing - tenon thickness	4.4	4.9	
Wing - tenon northern extern. Ø	22.9	223.1	

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Wing - tenon southern extern. Ø	22.2	22.3	
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	3	3.1	
Butt - small socket thickness with ferrule	2.5	2.8	
Butt - top ferrule thickness	0.5		
Minimum wall thickness between butt sockets	3.1		
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	3.3	3.7	
Long joint - south tenon northern extern. Ø	25.3	25.7	
Long joint - south tenon southern extern. Ø	24.6	25	
Long joint - north tenon thickness	2.8	3.4	
Long joint - north tenon northern extern. Ø	30	30.2	
Long joint - north tenon southern extern. Ø	30.1	30.5	
Bell socket thickness with brass	3.6	4	

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Brass thickness of the bell ferrule	0.5		
Bell ferrule height	26.8		
Tone hole angle, Ø, length			
Butt - tone hole Ab angle	x		
Butt - tone hole F angle	x		
Butt - tone hole F# angle	x		
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		

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Butt - tone hole Ab distance from north	x		
Butt - tone hole F distance from north	x		
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		