## GrenserH2-O-Leipzig1387-Wg1-WOB-DNM

	A	В	С	D	F	F	G	Н	,
1	I. Bocal	ن	Original bocal; GrenserH2, logic 2, no bocal, a bocal on the bassoon, not origin		-		J	- 11	1
2	dia reed end		inside diameter of reed end of bocal						
3	bocal string length (0, 1) metal bocal length top (0, 1)		length of bocal inserted into receiver meas. along top of bocal						
5	metal bocal length top (0, 1) metal bocal length bot (0, 1)		meas. along bottom of bocal						
	dia wj end		inside diameter of bocal						
7	bocal logic	2	if bocal logic = 0 => bocal is choke; if bocal logic = 1 =>choke in wing joint of	alc: if hocal look	C = 2 -	> 00	hocal		
9	bocar rogic		in bocal logic = 0 = 2 bocal is chocc, ii bocal logic = 1 = 2 chocc iii wing joine c	die, ii bocai iogii		110	Docui		
10									
11									
	II. Wing Joint Lengths		bocal receiver: GrenserH2, very slight, it could have been formed from bocal	over time, istr. L	ooks as	if it	was play	ed a great dea	al
14	choke bore dia.	9.3	logic 1; bore diameter of choke; logic 0; either diameter bocal bottom or begi			or re	ceiver		
15 16	receiver length (1, 0) (formally choke length) wing joint length	26.9 528	logic 1; length of choke from top of wing joint; logic 0; length of receiver (san total wing joint length, including tenon and socket	ne as string lengi	th)				
17	tenon length	39.9	tenon length						
18									
	wj f2 wj e	239 301	dist top of wing to where tone hole enters bore [not at the center of the tone l	nole]					
	wj d	347							
22	December 1991	110							
23	Bore dia. Bottom of wing joint Bore dia. top of boot joint small side	14.9 16.1							
25	Bore dia. top of boot joint large side	25.3							
26	*** 8 1 1								
27	III. Boot Lengths bj logic	0	logic=> if bj logic = 0 => plug removed; if bj logic = 1 => plug cannot be rei	noved					
29	bj c	84	dist from top of boot to where topmost tone hole enter bore [not at center of t						
30	bj b	139 184							
32	bj a	104							
33	bjstotal [Needed for both boot logics]	425	total length of boot, include socket, along the small bore side, meas. With boo	t cap removed					
34	bjltotal [Needed for both boot logics] plug small [Need for logic 0 only]	425 19.2	total length of boot, include socket, along large bore side plug thickness, large bore side						
36	plug small [Need for logic 0 only] plug large [Need for logic 0 only]		plug thickness, large bore side plug thickness, small bore side						
37									
38	boots [Needed for both boot logics] bootl [Needed for both boot logics]	381 381	hook length along s bore => bjs-septum length = boot - septum <= calc the shook length along I bore => bjl-septum length = boot - septum <= calc the s						
40	book [Needed for both book logics]	201	mook rangar along i bore —> bjr-septum length = boot - septum <= Calc the s	L		L			
41	boots bottom [Needed for both boot logics]	27	use hook, dist of bore [dist on stick plus 7mm, diff between hook and bot of st						
42	bootl bottom [Needed for both boot logics]	27	use hook, dist of bore [same as boots bot except tenon depth will be different GrenserH2 Two round plug design: small bore: 19.2mm dia.; large bore 19.5		rke mic	sing			
44	extreme bore [Needed for logic 1 only]	40.8	Outside dia of plug [measured] = small bore dia + large bore dia + the septu		No IIIIS	Jing			
45									
46	septum length exp [Need for logic 0 only] septum length calc - do not imput value	44 44	dist. from very bottom of boot to septum [point between the large and small bedieved dist. From very bottom of boot to spetum [bjl - bootl]	ore] do not imput va	مالاه				
48	septum length calc - do not imput value septum length - do not imput value		if bj logic = 0 => septum = septum exp; if bj logic = 1 => septum = septum			L			
49									
50 51	sbore dia sep* [Needed for both boot logics]  Ibore dia sep* [Needed for both boot logics]	17.6 18.8	septum small bore dia [assume = lbore dia sep] septum large bore dia [assume = sbore dia sep] [mesure if cork can be remov	red: for Logic 01		-			
52	sep width exp [Need for logic 0 only]	4.9	septum width; direct measurement if remove plug						
53	sep width calc - do not imput value	4.4	septum width; calc. => extreme bore - sbore - lbore	do not imput va					
54 55	sep width - do not imput value	4.9	if bj logic = 0 => sep width = sep width exp; if bj logic = 1 => sep width = s	uo not imput va	iiue				
56	bj g	330	dist from top of boot (socket) to where G hole enters bore [not at cent of tone						
	bj f1	115	dist from top of boot (socket) to where F1 hole enters bore [not at cent of ton	e hole]					
58 59									
60									
61 62									
63	IV. Tone Hole Diameters								
64	f2	5.2							
65 66	e	5 5							
67									
68	C	6.2				<u> </u>			
69 70	a l	6.5 5.6							
71	g	8.5							
72 73	f1	9.2				_			
	e1	12.4	GrenserH2, difficult to meas. Tone hole has filler in it; e1 tone hole dia, on lor	ı ıg joint [need to	averag	e NS	and EW	dias]	
74 75	d1	8.9	d1 tone hole dia, on long joint [need to average NS and EW dias, NS usually g	reater]					
76 77	CT	12.9	GrenserH2, oblong 12.6 x 13.2; c1 tone hole dia, on long joint [need to average	ge NS and EW di	as, NS	usual	ıy greate	erj	
78									
79									
80 81									
82	V. Tone Hole Depths								
83	f2	22							
84	d l	24 31.6	GrenserH2, D tone holes drilled at fairly extreme angle						
86			, a serie content and a serie content angle						
87	C .	21.8							
88 89	a I	23.3							
90	g	18.1	meas along bot tone hole wall [north wall, toward reed,tone hole usually at ar						
91	f1	19.5	meas along east side tone hole wall [north wall, toward reed,t hole usually at	angle]					
92	e1	8.7	e1 tone hole depth;meas east/west with deapth gauge [at center, or shortest	l dist1					
94	d1	7.9	d1 tone hole depth; meas east/west with deapth gauge [at center, or shortest	dist]					
95	c1	7.3	c1 tone hole depth; meas east/west with deapth gauge [at center, or shortest	dist]					
96 97									
98									
99									
100 101	VI. Long Joint		GrenserH2 a table along long joint						
	lg length	612	total length of long joint						

## GrenserH2-O-Leipzig1387-Wg1-WOB-DNM

_		_	•		_		_		
102	A A	B 42	C     Longth bottom topon on long joint [tops=i== i=t= b==t i=i=t]	D	E	F	G	Н	I
	lg_tenon_bot	43	length bottom tenon on long joint [tenon going into boot joint]						
	lj_bot_bore lj_top_bore	24.8 31.6	long joint bottom tenon bore diameter [tenon going into boot joint] long joint top tenon bore diameter [tenon going into bell]					1	
	lg tenon top	33.9	length top tenon on long joint [tenon going into bell]						
	e1 distance	58	dist long joint tenon to e1 [from bot of tenon to where tone hole enters bore]						
	d1 distance	263	dist long joint tenon to d1 [from bot of tenon to where tone hole enters bore]						
	c1 distance	511	dist long joint tenon to c1 [from bot of tenon to where tone hole enters bore]						
110									
111									
112									
113									
114									
	VII. Bore diameters at Tone Holes	11.0				-			
116 117	f2	11.8 12.8							
118	e d	13.2							
119	u	13.2							
120	С	16.6					l		
121	b	17.3						1	
122	a	17.4							
123		20							
124	f1	23.3							
125									
126	e1	25	e1 tone hole bore diameter on long joint			-			
127	d1	27.8	d1 tone hole bore diameter on long joint				<b> </b>		
128 129	c1	30.8	c1 tone hole bore diameter on long joint						
130							l -	<del> </del>	
131									
132									
133									
134	VIII. Bell		GrenserH2 there is a tone hole in the bell; 4.8mm dia.; 135mm from socket; 5						
135	bell logic	0	If bell_logic = 0 => normal conical bore; if bell_logic = 1 => inverted concial	bore; if bell_logi	c = 2	=> be	ell expar	sion	
136	bell_length (0, 1, 2)	298	total length of bell [lines 141 + 144 = line 136]						
	bell_bot_bore (0, 1, 2)	32.5	dia bore at the bottom of bell [end with socket]						
	bell_top_bore 0, (1, 0, 2)	33.5	dia bore at the top of bell [where low Bb exits]						
	bell_center_bore (only for logic 2)		dia bore at max center of expansion					ļ	
	bell_wall (only for logic 2)		bell wall thickness, Just for David	C_0 -> 1003		-	<b>-</b>		
	bell_bot_bore_expansion (only for logic 2) Outside diameter of wood at expansion		dist of bottom to maxium of expansion [including bell socket length,if bell logi Just for David	c=0 =>100j					
	bell_tenon (0, 1, 0, 2)	37.5	bell socket length				<b>-</b>		
	bell_expansion_length (only for logic 2)	37.3	distance of maxium expansion to top of bell [where Bb exits]						
145	(only for logic 2)		and the second s						
146									
147									
	IX. PITCH								
149		430	input the historical pitch of the bassoon, must input value, best guess						
	freq_init	380	Initial frequency range variable					ļ	
	Delta frequency	2	frequency increment parameter			-	<b>-</b>		
	Number of frequencies Frequency adjust	60 1.05	number of frequencies to scan for min chi sq frequency adjustment parameter				l	<del> </del>	
	X. Title	1.00	requeries adjustment parameter					<del> </del>	
155			Bassoon Calculation: GrenserH2-O-Leipzig1387-Wg1-WOB-DNM						
156								İ	
157			Notes on long joint bore: GrenserH2 OOR in places						
158			Notes on boot joint bore: GrenserH2 small side OOR and cylindrical						
	XI. Bore Diameter Locations		Notes on wing join boret: GrenserH2 normal						
160	D. II D.	19	Number of diameters				-		
161	Bell Bore	9.3	Initial bore diameter				1		
162 163	32.5mm dia. at socket 32mm rod 130mm from socket OOR	401	dist1; measured from the bottom of the wing joint- 10mm dist2; measured from the bottom of the wing joint- 11mm				1	1	
164	32mm rod 130mm from socket OOK 32mm rod 100mm from bell end	334 274	dist2; measured from the bottom of the wing joint- 11mm dist3; measured from the bottom of the wing joint- 12mm				1		
165	33.5mm dia. at bell end	196	dist4; measured from the bottom of the wing joint- 12mm				1		
166	Description of the second	85	dist5; measured from the bottom of the wing joint- 15mm				1		
167		0	dist6; measured from the bottom of the wing joint- 15mm	Bottom wing jt	14.9		1		
168		0	dist7; measured from the top of the bootjoint - small bore side- 16mm	top boot small	16.1		2		
169		120	dist8; measured from the top of the bootjoint - small bore side- 17mm	top boot large	25.3		2		
170		0	dist9; measured from the top of the bootjoint - small bore side- 18mm				2		
171		371	dist10; measured from the top of the bootjoint - large bore side- 19mm	sbore dia sep	17.6		3	ļ	
172		335	dist11; measured from the top of the bootjoint - large bore side- 20mm	Ibore dia sep	18.8		3		
173		281	dist12; measured from the top of the bootjoint - large bore side- 21mm			-	3		
174		225	dist13; measured from the top of the bootjoint - large bore side- 22mm			-	3		
175 176		138 88	dist14; measured from the top of the bootjoint - large bore side- 23mm	li hot horo	24.8		3		
175		556	dist15; measured from the top of the boot joint- large bore side- 24mm dist16; measured from the top of the long joint- 25mm	lj_bot_bore	24.8		4		
178		490	dist17; measured from the top of the long joint- 25mm				4		
179		419	dist18; measured from the top of the long joint- 27mm				4		
180		315	dist19; measured from the top of the long joint- 28mm				4		
181		271	dist20; measured from the top of the long joint- 29mm				4		
182		221	dist21; measured from the top of the long joint- 30mm				4		
183		8	dist22; measured from the top of the long joint- 31mm				4		
184		0	dist23; measured from the top of the long joint- 32mm	lj top bore	31.6		4		
_									