

7-key fagottino, CASTLAS, Turin, ca.1800

| BASIC - OUTSIDE | | | |
|---|-------------|-------------|--|
| | Min. | Max. | Comments |
| Joint lengths | | | |
| 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 mm |
| Wing joint - tenon length | 26.2 | | |
| Butt joint length | 213 | | |
| Long joint length | 285 | | |
| Long joint - south tenon length | 30 | | |
| Long joint - north tenon length | 23.4 | | |
| Bell length | 152.4 | | |
| Vent hole distance from north | x | | |
| Vent hole approx diameter | x | | |
| Tone hole distance, axis | | | |
| 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 | | |
| Long joint - tone hole Eb distance from north | 216.5 | | |
| Long joint - tone hole C distance from north | 155 | | |

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| 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 | | |
| 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 | | |

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| 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 | | |
| Tone hole angle, Ø, length | | | |
| 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 | | |
| 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 | |

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| Long joint - tone hole C approx. length | 57 | | |
| BASIC - INSIDE | | | |
| Inner bore length | | | |
| Bore length | 967 | 992 | Tuning extension in wing joint closed / opened |
| Wing bore length | 186 | 211 | Tuning extension in wing joint closed / opened |
| Butt - small bore length | 198 | | |
| Butt - big bore length | 197 | | |
| Butt - small bore socket length | 26.8 | 27.2 | |
| Butt - big bore socket length | 29.4 | 30 | |
| Butt - small bore beginning of septum | 185 | | |
| Butt - big bore beginning of septum | 185 | | |
| Long joint length | 288.5 | | |
| Bell length | 153 | | |
| Inner bore beginning Ø (not socket!) | Min. | Max. | |
| Wing bore Ø north | 8.2 | | Bocal well Ø north 11.8 mm |
| Wing bore Ø south | 9.9 | 11.5 | |
| Bocal well length | 19 | 27 | |
| Butt - small bore Ø north | 12.7 | | |
| Butt - big bore Ø north | 18.4 | 19.4 | |
| Long joint Ø north | 24.3 | 24.8 | |
| Long joint Ø south | 18.6 | 19 | |
| Bell bore Ø north | 24 | 26.1 | |
| Bell bore Ø south | 23.6 | 24.8 | |
| Bell socket length | 23.8 | | |
| Bocal Ø at the beginning | 3.5 | 4.3 | External |
| Bocal thickness at the beginning | 0.4 | | |
| Bocal Ø at the tenon | 8.2 | 8.4 | External |

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| Bocal thickness at the tenon | 0.5 | | |
| Bocal length (along top) | 185.6 | | |
| COMPLETE - OUTSIDE | Min. | Max. | |
| 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 | | |
| 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 |

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|---|-----------|------|---------------------|
| 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 | |
| Tone hole angle, Ø, length | | | |
| Butt - tone hole Ab angle | 9° North | | |
| Butt - tone hole F angle | 8° North | | |
| 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 | | | |
| 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 | | |

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|---|-------|--|---------------------|
| Long joint - tone hole E \flat approx. length | 5.3 | | |
| Long joint - tone hole B \flat approx. length | 6.5 | | |
| COMPLETE - INSIDE | | | |
| 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 | | |
| 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 | | |