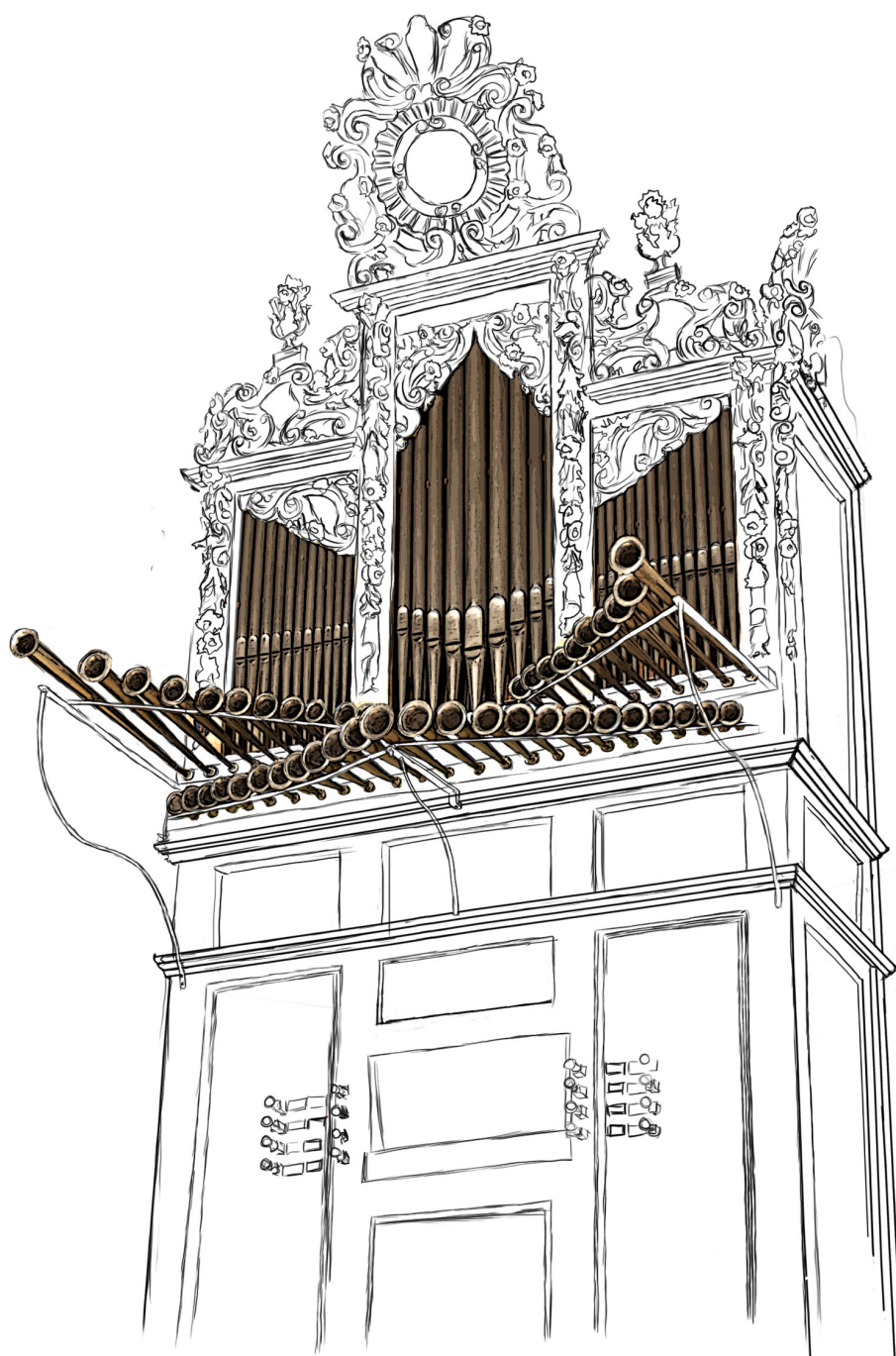


Spanish Baroque Organ



# Clarín Information



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<I> Technical specifications	3
<II> Versions	10
<III> Conditions	12

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<I>

# Technical specifications

## Technical specifications

**Keyboard:** 45 notes (c1-c5), with short octave.

All stops divided. 16 Half stops: 8 left hand, 8 right hand.

Split keyboard, division between c3 –c#3.

### Arrangement:

LEFT HAND		RIGHT HAND	
Flautado Violón	8'	Flautado de 13*	8'
Flautado de 6 ½ *	4'	Flautado Violón	8'
Quincena	2'	Octava	4'
Decisetena	1 3/5'	Quincena y 19 <sup>a</sup>	2'+1 1/3'
Decinovena	1 1/3'	Lleno III	
Lleno III	1'	Címbala III	
Címbala III	2/3'	Corneta VI	8'
Bajoncillo *	4'	Clarín *	8'

Timpani in D and A.

\*in façade

Two open pipes for each note of the timpani. Wood.

They can be used as “contras” in **D** and **A**, through the depth of key



“Clarín” Opus 1

**Pitch:** 415 Hz at 21° C.

**Temperament:** Classic Meantone.

**The wind pressure :** 55 w.g.

**Flautado Violón** – The first octave in wood and stopped, the rest stopped a cheminée. Top soldered. With beards.

**Flautado de 6 ½:** The left hand in the façade.

**Flautado de 13** for right hand: 12 pipes in façade.

All pipes in façade leave the lips impressed in half point.

Tuning through cut window.

**Octava, Docena, Quincena, Decinovena, Llenos** y **Címbala**, have single scaling. Open pipes cut to tone.

## Compositon of the mixtures.

### Lleno

<b>C1</b>			1'	2/3'	1/2'
<b>C#2</b>			1 1/3'	1'	2/3'
<b>C#3</b>		2'	1 1/3'	1'	
<b>A#3</b>		2 2/3'	2'	1 1/3'	
<b>F#4</b>	4'	2 2/3'	2'		
<b>C5</b>	4'	2 2/3'	2'		

### Címbala

<b>C1</b>				1/2'	1/3'	1/4'
<b>C#2</b>				2/3'	1/2'	1/3'
<b>F#2</b>			1'	2/3'	1/2'	
<b>C#3</b>			1 1/3'	1'	2/3'	
<b>A#3</b>		2'	1 1/3'	1'		
<b>F#4</b>		2 2/3'	2'	1 1/3'		
<b>C#4</b>		2 2/3'	2'	1 1/3'		

### Corneta (right hand)

1ª rank Flute a cheminée (8')

2ª r. 4' Nazardos

3ª r. 2 2/3'

4ª r. 2'

5ª r. 1 3/5'

6º r. 1 1/3'

### Horizontal reeds

The reeds stops go in the façade with the typical design (W)

The metal is the same as the one of the other pipes in the organ.

The shallots: typical in this style. Shallots with welded lids.

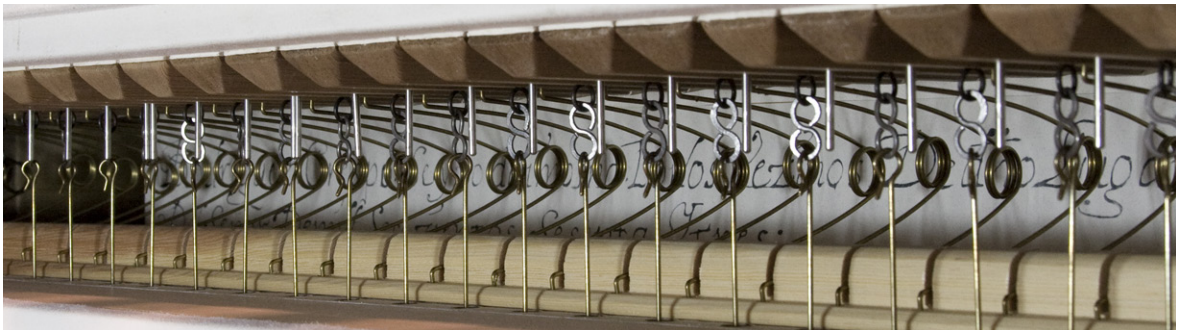
Iron tuners, with crossbow.

## Mechanics

The “machinery” follows the usual pattern in Castilian organs, with suspended mechanics and sliders wind chest. Chromatic note order.

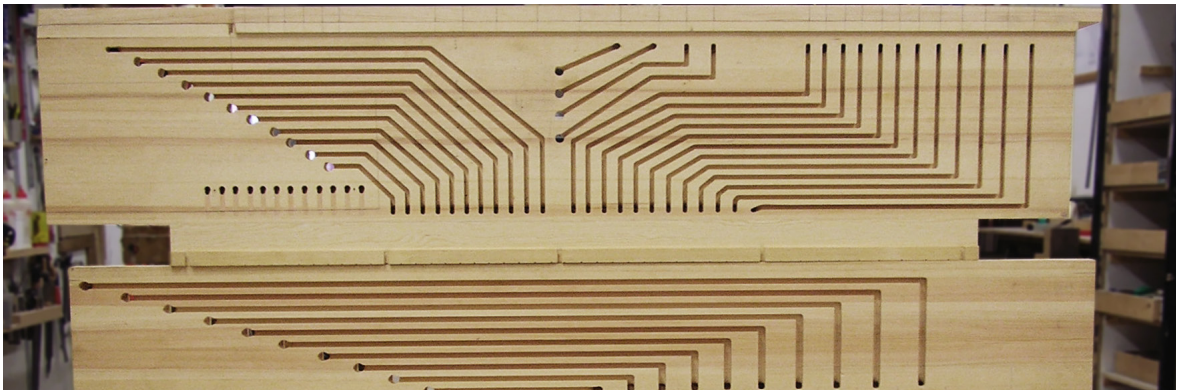
### Wind chest

- » Build with very dry premium class pine.
- » **Wind grooves:** grooved in massiv wood, in the direction of the one of the fiber.
- » **Sliders:** Spanish walnut.
- » **Pallets:** Cedar.
- » Adjusted upper-board and sliders with textile round.



### Grooved blocks

- » Three grooved blocks for the stops in façade. A small grooved block for the bass notes of the Violon.
- » Dry pine. Grooved on two faces. Installation without tin pipes.
- » Covered with white skin from sheep.



## Keyboards

- » Made from pine wood.
- » Plated: Bone and blackwood.
- » Knob: Boxwood.

KEY	LENGHT	WIDTH	NATURALS LENGHT
NATURALS	115 mm	22,5mm	30mm
ALTERED NOTES	85 mm	11 mm	

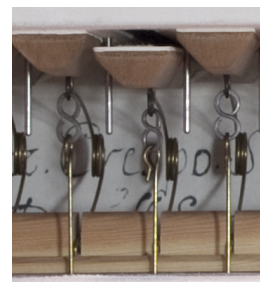
**Total key lenght:** 340 mm. Point of traction: 145 mm from the top.



## Track action.

### Notes.

- » Reduction through pine roller boards and iron arms. Eyes lining. Pine ribs.
- » Bearings with parchment crossbow to avoid noises and unnecessary frictions, does not loosen.



## Stops

- » Wrought iron registry mechanics. Wooden pull and connecting rods.

## Bellows

- » The wind is supplied by three wedge bellows, which can be used in manual mode.
- » Bellows size (each): 1700x850 mm. Six folds.
- » Made in pine and “Baldés” skin.



## The organ case

- » Case designed after style and finishing of the model. Classic decoration, with polychrome flat surfaces and gold carvings.
- » Very dry Sorian pine wood. Side and back access for maintenance.
- » Open pore protection.

### Ornamentation:

**Flat surfaces:** plaster stucco. Paint: Natural glue distemper. Traditional pigments from the baroque period. Finishing protection.

**Moldings:** Plaster stucco. Bol layer. Fine gilding.

**Carvings:** Plaster stucco. Bol layer; fine gilding, burnished. Patina and protective polish.

### Dimensions:

**Height:** 4.850 mm. **Front:** 2.160 mm. **Depth:** 850 mm.

**Horizontal reeds length outside the case:** 1.100 mm.

**Bellows:** 3.000x2000 mm. 2.000 mm. high, including levers.

**Bellows separation:** 115 cm.

**The bellows can put in other position, according his need.**

**Weight:** 1600 Kg.

The construction has been carried out following the 18th century's tradition, with very dry prime quality woods. Spanish pine and walnut, natural tanned sheep leather, bone keyboard and handcrafted piping, metal casting and carving, lead languid, and pipes parameters and invoice designed after the patterns found in the original.





<II>

Versions

## Versions

The offered versions of the model are:

## Ornamentation options:

- I. Full ornamentation, same as the one on the model. The polychromy design admits variations.
- II. Case in oak wood, with no polychromy. Gold carvings.
- III. Case in oak wood, with no polychromy. Flat carvings, gilded latticework.
- IV. Case in pine wood, with no polychromy. Carvings on pine wood. Admits later gilding and polichromy.

## Technical options:

- I. Full version, just as the model.
  - II. Two bellows version, instead of three.
  - III. Only one bellows version. No manual mode option.
  - IV. Mesotonic temperament modification: 1/5 coma.
  - V. Right hand division into two stops: 15<sup>a</sup> and 19<sup>a</sup>.
  - VI. It is possible the copy of other 8' and 16' Spanish organs.
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# < III > Conditions

## Conditions

- » The prices are in the workshop
- » Included the packing
- » Included the installation and tuning in Europe.
- » Outside the transporting from the organ
- » Outside the assurance during transport
- » Delivery around eight months from the contract signature.

## The pay:

- I. 10% to the contract signature.
- II. 50 % along the building.
- III. 30% to the expedition
- IV. 10% 30 days after the end work

Other forms may be by agree of the parts

The Joaquin Lois workshop may send Bank Guarantee by each pay until the end work. The bank cost is to the client.

## Guarantee

**Included five years FULL GUARANTEE.**

**Conditions of guarantee.**

- I. Outside damage caused by external agents to our work or the materials used.
- II. The maintenance to the organ will be periodically by a capacity person and wiht comunication with our workshop.

**The warranty is extendable to 10 years:**

If our workshop do maintenance at least the first year and then every three years.

**Other conditions can be established between the parties.**

Joaquin Lois Cabello

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