

Magic Mechanical Music

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Musik & Spiel

Automaten • Gerätebau

Ing. Hansjörg Leibie
Kirchstr. 2

D - 79400 Kandern-Holzeln

Tel: ++49-7626-7613

Fax: ++49-7626-971009

Leibie@addeon.de

www.magic-mechanical-music.com

We build individually designed

barrel organs, and pneumatic organs

with movable figurines whose charm is indescribably unique. The carefully arranged music is accompanied by various sounds in the background which are produced by the movable figurines and specialised componentparts inside the instrument.

The **fairy-tale organ** and the **dumpling-eater organ** are barrel organs and the most popular models. The princess of the fairy-tale organ throws the golden ball into the frog`s mouth, and the hen lays the golden eggs (ball) into her hand again. The dumpling-eater is continually eating dumplings which he actually swallows. The dumplings roll into the figure`s stomach, and are again lifted onto the spoon and then to the mouth. On the barrel there is space for seven songs, which were composed and arranged by outstanding musicians. In addition, older songs included were arranged in a modern, witty style. Every song plays for 40 seconds. The repertoire ranges from old folksongs to modern songs, all from Europe. Each customer can also propose a new song, which then is arranged for the organ. (See song-indicator of an organ being sent to Japan)

Brief Description of the Fairy-tale Organ

The machine with mechanical figures is used as a coin-operated machine behind glass, and as a hand organ as well.

The music-producing parts of the mechanical barrel-organ correspond closely to traditional construction and consist of:

Pin-Barrel	with seven tunes and mechanism which changes the position of the Pin-Barrel after each tune.
Song-Indicator	the hand shows the title of the tunes.
Key Frame	with 34 keys.
Sound Capability	24 tones, 2 octaves + F-sharp, E-flat and B. CFG bass with octave support. Two registers, one of which (the octave) is controlled by the barrel.
Double acting bellows	4 chambers and reservoir 80mm WS air-pressure.
Wind chest	with slider and outputs for movement of figures and sound effects.

A The following figures are in constant motion (when the organ is running):

- 1** King: turns his head from left to right.
- 2** Servant: fans the king and tickles his nose when the king turns toward him.
- 3** Princess: throws the ball into the frog`s mouth.
- 4** Sky: revolves.

B Controlled by the barrel (briefly, and compatible with the song):

- 1** Dragon: roars, opens its mouth (sound-effect: reed pipe)
- 2** Bird: twitters, a small door in the tower opens, the bird looks out, flaps its wings and opens its beak (sound-effects: pipe with wheel which produces a quavering sound)
- 3** Stork: rapidly opens and closes its beak (sound-effects: boards rapidly hitting each other)
- 4** Prince: strikes the dragon with his sword (sound-effects: cymbal)
- 5** Ghost: appears suddenly from behind the tower and wails (sound-effects: piston-whistle)
- 6** Young boy: strikes the bell with a hammer (sound-effects: bell)

Organ: width 70cm, depth 40cm, height 70cm, weight: 27kg

Glass case: 50kg

Table: 17kg

The building of an organ takes 10 months, 1 person.

Price on request !

The costs for transportation and packing are not included in the purchase price. They are to be paid separately.

pneumatic organ

Organ with historic Banquet

In contrast to my „small“ barrel organs, this organ is a pneumatic instrument whose music is produced by paper rolls (similar to a player-piano), and which is much more costly to construct. It is more suitable for larger museums and collections. The organ can be driven either by a hand crank, or electrically. Three musical instruments are built into the organ: the organ mechanism, an accordion and a xylophone, which through register-commands, can be played individually or together (unison). In addition, the instruments can be played in a split-mode, i.e., the deep organ octave can accompany the high accordion octave. The organ mechanism and the accordion require compressed air. The pneumatic scanning of the paper rolls, the control system, the xylophone and the percussion mechanism require low-pressure air.

The group of figurines which bears the designation „Historic Banquet“ contains many surprises. The dumpling-eater, which is a popular figurine on Black Forest clocks, was technically improved, and it swallows „real“ dumplings, which by means of an elaborate mechanism, are returned to the spoon. The other figurines accompany the music rhythmically. The rhythm (percussion) instruments are located beneath the figurines and are activated by low pressure bellows. Movement of the figurines is achieved by separate low pressure bellows.

The man at the left strikes his head with a spoon, and at the same moment a sounding board (temple block) (high) is struck. The lady to the left noisily places the lid onto a pot while cymbals clash. The lady to the right drums on a pot with two spoons (drum sound). The man to the right strikes his head (deep sounding board) (temple block). The lady on the right and the man on the left nod their heads in time to the music.

Other sounds and actions are: The calf moos, the bird in the pan twitters, the devil looks out of the wine barrel and whistles, and the man on the right emits a flatus sound.

In the construction of these organs strong emphasis is placed on beautiful, original music. The arrangements and compositions are done by a musician who can meet the special desires of the customer. The paper rolls are punched in our factory.

Technical Data:

Pipework

118 wood pipes, 27 tones, C`- d``` chromatic
5 basses C D F G A with octave support

organ piano: 1 register open flutes (principal pipes)
organ forte: + 1 register stopped flutes (prospect pipes)
+ 1 register stopped flutes (Gavioli pipes)
(one octave and one fifth higher)

Accordion

27 tones (basic tones and octave)

Xylophone

(Xylophone with metal bars and sound-boards, (temple blocks)
(27 tones)

Percussion (rhythm)

cow-bell, temple-block (sounding-board) (deep),
Soundingboard temple block (high).
double cymbal (hi-hat), drum with two hammers.
(The figurines are operated pneumatically at the same time).

Effects

cow mooing (reed pipe with beating tongue)
flatus sound (reed pipe with beating tongue)
devil's voice (piston-pipe)
bird sounds (pipe with wheel which produces a quavering
sound)

Suction Air (Low pressure)

-250mm (water column), two-chamber bellows

Compressed Air

(High pressure)

+ 100mm for the whistles
+ 80mm for the accordion
four-chamber bellows

Primary Pneumatic

44 small valves (Welte)
9 preliminary valves, large (Welte-Leible) for register switching

Paper width

190mm, 56 holes

Weight

110kg

Dimensions

width, 110cm; height, 95cm; depth, 85cm

Materials

housing: cherry; figurines: lime (linden) wood

whistles: maple, pine; bellows: sheep leather, rubberized cloth

The instruments are selected by air-valves, the organ works by sliders.

Total hours for construction: 1 person 1550 hours.

Price on request !

The costs for shipping and packing are not included in the purchase price.
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This pdf-file includes all information of the
„ **Magic Mechanical Music** „
website.

For further informations
please contact us.
(see adress on page 2)

Thank you for your interest.
Best regards

Hansjörg Leible

Webdesign
Audio- and Videoproductions
by



Basement Productions
Hennes Neuert
Leimgrubenstr. 27
D – 79576 Weil / Rhein
T: +49 – (0)7621 – 76432
hbase27@t-online.de
www.hbase27.de

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