

kalka 1 b

Wojciech Samołyk

was born in 1956 in Mława.

He graduated from Stanisław Wyspiański Memorial High School in Mława. He studied Architecture at the Faculty of Civil Engineering and Architecture of Lodz University of Technology.

He is the founder of Sampro, the company operating for 33 years in business.

He created the Tentogra brand. He is the originator and exclusive designer of Tentogra Oskar, Tentogra GramyV-TA and Tentogra WoWo turntables. He is a fan of Cabasse Adriatis speakers. The laureate of the award

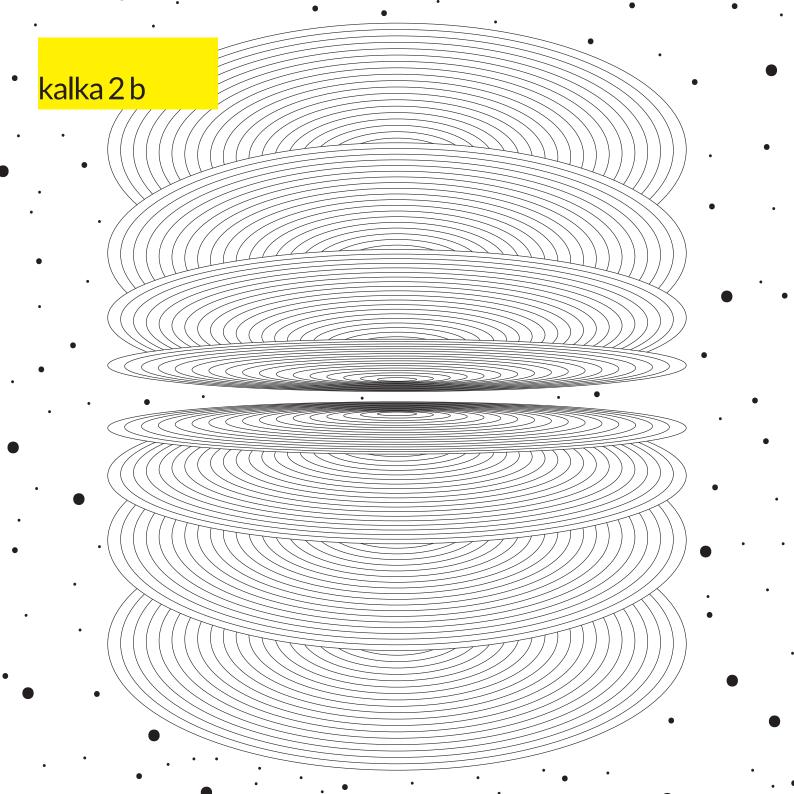
Best Product 2019 for Tentogra Oscar. He is planning to continue to develop the Tentogra brand.

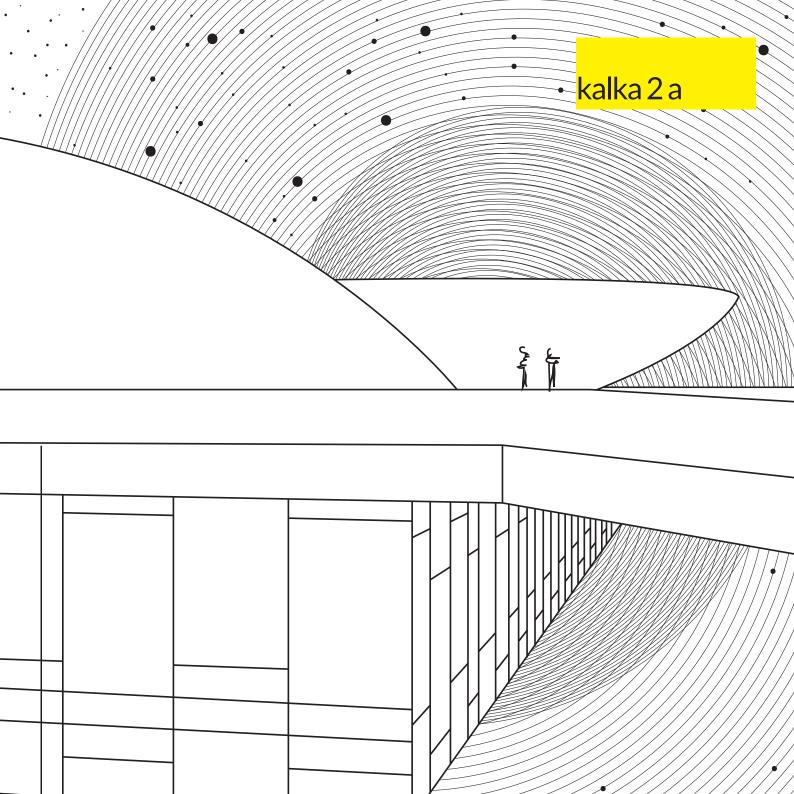
kalka 1a

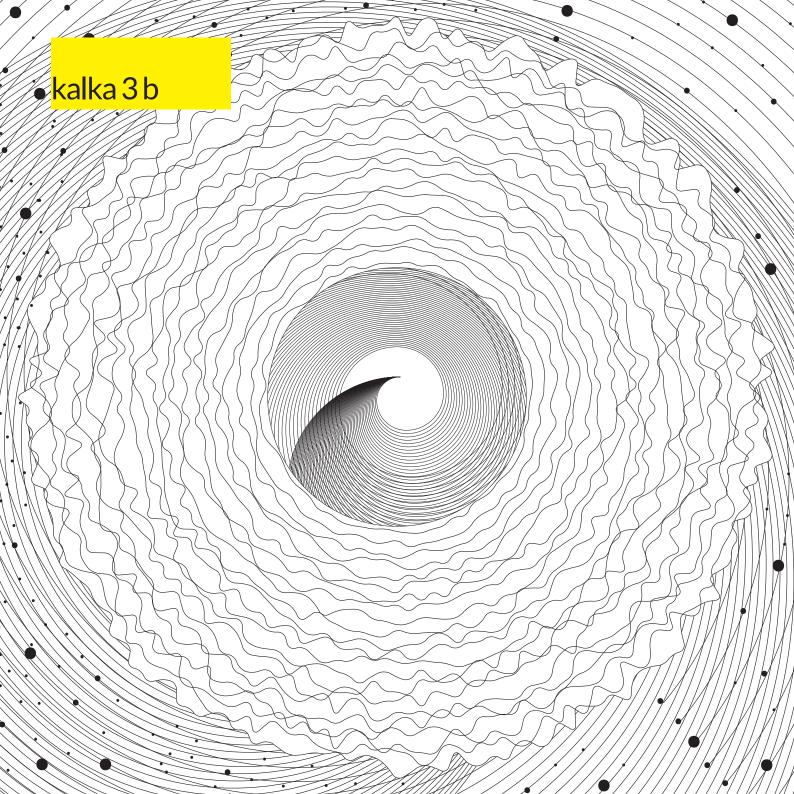














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This device lifts the tonearm at the end of the record side, protecting our favourite phono cartridge. To set of

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Tentogra

Oscar

The turntable is decoupled from vibration by three measures:

- The magnetic cushions in the feet are the first anti-vibration measure.
- The second anti-vibration measure is a pneumatic base under the turntable made of specially glued wooden layers at a pressure of 1000 tonnes/sqm, filled with 130 pneumatic elements and finished with natural leather.
- The third anti-vibration measure includes the special internal structure and the large volume of the turntable and the casing made of multiple varnished or veneered and lacquered high gloss or matt MDF.

w tym miejscu kalka 2a



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The internal structure is made of two polished and anodized aluminium plates.

First, the structure of the turntable is cut using CNC water jet cutting machines. The ceramic bearing is integrated into the platter by phosphor bronze.

The motor controller is hidden in a "cap" (Faraday cage) on the left side of the turntable so as not to cause any outside disturbances. The same care applies to the battery power unit, which gives clean current without distortion. Therefore, the turntable is powered by an innovative lithium-ion battery with a capacity of 30 machine-hours and a voltage of 24 V as standard. The battery power unit has a discharge indicator of 100% -0. The batteries are charged until the desired 24V voltage is obtained, then charging is automatically disconnected. If the battery is discharged while listening to music, you can switch to 230 or 120 V mains power.

Another innovation in the Tentogra turntables is the creation of an application that sums up the number of operating hours of a cartridge starting from its installation. The Tentogra Oscar is equipped with two tonearm bases and the innovative PressLift vinyl clamp by Mind Pop Revolution, which automatically lifts the tonearm with the cartridge after the end of the vinyl side. Our assumption was that one tonearm could handle mono and stereo cartridges for 33 and 45 RPM records, while the other tonearm could handle special cartridges for shellac 78 RPM records. The record clamp is delivered with a polyamide element for centring the glass slipmat on the platter.

One of the most important parameters of Wow & Flutter turntables regarding the stability of the turntable rotation, measured according to DIN IEC 386, during several measurements was max. +/- 0.12%.

TURNTABLE OPTIONS

We offer several extra options as additional devices for our turntables.

- Kuzma tonearms and cartridges that we have tested.
- The 36 Ah additional, larger battery extends listening time to approx. 68 hours. This battery also contributes to an even better sound.
- The legs of the turntable stand can be covered with special quartz at the customer's home to further reduce the transfer of unfavourable resonances from the floor to the turntable.
- The turntable can be purchased without the stand and the pneumatic base.
- The purchased turntable includes the PressLift Mind Pop Revolution. This device lifts the tonearm at the end of the record side, protecting our favourite phono cartridge.
- The turntable is equipped with ambient lighting, the colour of which can be selected.
- Tentogra turntables are manufactured to order.

We can adapt the bases of the Tentogra turntables to the tonearms owned or preferred by our customers.



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Innovative power

In the Tentogra Oscar turntable, we have used an innovative battery power supply, which most advantageously and most precisely drives the turntable motor, which is its heart and one of the most important structural elements.

- This translates into the sound and character of the turntable, which are our priority.
- A new feature is the driver application that allows you to measure the runtime of a phono cartridge.
- With every audiophile in mind, we used 78RPM speed for listening to shellac records. The second tonearm is designed to play these carriers, in order to use a special transducer for these records.
- The basic battery lasts 30 hours to drive the motor, which on average gives us a week of listening to music, 4 hours a day until discharge. Charging the battery to 0-100% takes ~ 8 hours, preferably at night.
- A larger battery with a capacity of 35 Ah gives approx. 68 hours of turntable operation. It also makes the motor work even more stable, which translates into the quality of the music you can listen to.





Tentogra The visual paradigm of the turntable has not changed much in over a hundred years since the times of Emil Berliner - the originator of the flat gramophone record. Replicated by turntable manufacturers, it is very difficult for the makers of these devices to create something new. The turntables do not have to be the same After all, we entered the new millennium almost 20 years ago. As trends in architecture and art have changed over the centuries, the development of the 21st century technology, including the visual one, just the NEW ERA, probably a cosmic one, inspired the creation of the Tentogra GRAMY VTA turntable.



The Tentogra GRAMY VTA turntable is designed as a two-tonearm device, completely isolated from the ground, for playing vinyl and shellac records.

The GRAMY consists of three separate parts - the base and two separate plinths for the tonearms. Each of these plinths has an independent tonearm height adjustment, i.e. the vertical tracking angle (VTA). Thanks to this, we can use inexpensive turntable tonearms without the adjustment system. Bearing all audiophiles in mind, we designed two standard playback speeds for vinyl records and 78RPM for old shellac records.

The <code>CRAMY</code>'s power supply is 230V. It is also possible to use a battery power supply previously used in the Tentogra Oscar turntable.

A power supply battery is available on request.

The <code>GRAMY</code> VTA comes in a standard version with a phono cartridge runtime counter, speed control and switchable ambient lighting in white or orange.





The first assumption behind the design of the Tentogra FLAMY VTA turntable was to create a super modern belt turntable with the ability to adjust / calibrate the VTA "on air", i.e. while listening to music. This is what happens in expensive tonearms having this feature.

The GRAMY VTA controller, like the Oscar one, is also equipped with the function of counting the working time of one cartridge. The second assumption was to create a turntable visually different from all previous designs in the world. The structure is made of annealed precision aluminium and stainless steel, metals favourable for the construction of the turntable. Machining is performed on CNC milling machines and lathes, and then the turntable is wet varnished.

The plinths consist of three aluminium plates bolted together. Between the plates I used thick Kevlar spacers and stainless steel regulators for the length of various tonearms from 9" to 12".

Both plinths of the turntable are supported at three points on ceramic balls. The main points of lifting the plinths along with the tonearm are manually adjusted by turning special knobs located on the back of the turntable. We raise the VTA of the tonearm by turning clockwise (CW) and we lower the VTA by turning counterclockwise (CCW).

The adjustments are independent for each tonearm. This is a simple way to calibrate the sound of a phono cartridge. As we know, by lowering the VTA, we reduce the proportions of the sound components towards the bass. By raising the VTA, we increase the amount of treble

The Tentogra **GRAMY**VTA drive is located in the rear part. It is a separate device connected to the turntable only by means of straps and control cables.

There are power switches on the motor casing and switches for the turntable's ambient lighting.





Tentogra

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Following the accepted principle that turntables do not have to be the same or similar to each other, I designed the Tentogra Wowo for a wide range of audiophiles. First of all, I paid attention to its compact size and affordable price in the end. This is how the smallest of my turntables was created, the third in the series after the Tentogra Oscar and Tentogra Gramy VTA models.

The inspiration for this model was simplicity and a reference to vintage.

simplicity and a reference to vintage turntables because of the quick access to all adjustments. The tonearm bases are extended to accommodate two tonearms from 9"-14" in length. Each of the tonearm bases is equipped with a standard tonearm.

is equipped with a standard tonearm stabilizer-damper (i.e. vibration damper).



w tym miejscu kalka 3b



The Tentogra WoWo has a very favourable centre of gravity distribution. I used a DC motor like in the Oscar model to drive the platter. Each of the speeds of 33, 45 and 78 RPM is activated by a knob on the front of the turntable. The current speed is indicated by the appropriate LED on the turntable front. The motor is an independent object, not coupled with the structure so as not to transfer vibrations to the plinth. One can also use a battery of my production, which is not standard equipment.

The Kuzma Stogi S-12", Kuzma Stogi 313 REF, Kuzma 4Point, Kuzma 4Point 14" and other tonearms from the same manufacturer are recommended for Tentogra WoWo.

The Tentogra WoWo platter is made of polyacetate (POM) with a lowered centre of gravity. The bearing of the platter is steel and ceramic. The platter including a glass slipmat weighs 6.5 kg

The motor of the turntable is located at the rear of the turntable and partially slides under the turntable. It is connected to the turntable only by two drive belts. The weight of the turntable 35 kg without accessories.

The WoWo comes in two basic colours: black and silver. At the customer's request, other anodizing colours can be offered.

It is made to order like all my WoWo turntables.



• depth 45 cm, • height without the tonearm 17 cm, • weight without the tonearms 35 kg. Thanks to the foot spacing of 40 cm (width) and 25 cm (depth), it will easily fit on not too deep furniture.



The type of finish of the Tentogra WoWo is at the customers' choice. The top of the turntable can be customized with different types of exotic veneers. If one does not like the wooden finish, the elements of the upper plinth can be varnished in a piano varnish to a high gloss or in matt varnish.

We can also offer the purchase of additional turntable top elements and replace them depending on the season of the year. The exchange is very simple.

Additional elements are also Kepler feet produced by the Polish company DIVINE Acoustics.

Original and optional Kepler feet enable smooth turntable levelling.

Each of the turntable tonearm bases is additionally equipped with a "tonearm stabilizer", i.e. a vibration damper. It is a cylinder visible from below, which counterbalances the weight of the tonearm - ideally both should be the same.

ACCESSORIES



w tym miejscu kalka 2b



The concept of a battery drive in my turntables was created a few years ago during the "Energy for the region" course organised by Pro-Akademia in Lodz. Initially, it was supposed to be used for car batteries, not quite suitable for home purposes.

During the research on the energy consumption of the turntable motor, I noticed that the higher the sound intensity read by the cartridge stylus, the higher the current consumption indicated by the laboratory power supply. For example, when playing a record with a symphony orchestra, a sound at normal orchestra volume passing to very loud parts resulted in a difference of power consumption which was 10 times higher. The stability of the direct current provided by a battery or a battery to a DC motor is indisputable. I was able to find a manufacturer that makes lithium-ion batteries. He made the first one with a capacity of 10Ah, then after some time I received a battery with a capacity of 35 Ah to increase the working time of the turntable. The 10 Ah battery gives about 30 hours of play, whereas the 35 Ah battery gives 68 hours of play and a much better signal of the record being played. Imagine that swapping the battery from 10 Ah to 35 Ah made the turntable sound louder! Please bear in mind that the battery is only used for driving the motor and it is not used for powering any other electronic parts of the turntable. In some cases, at the customer's request, we use a capacitor battery as an additional buffer to the battery. This also has a significant impact on the sound.

Power is essential even in turntables.



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created with passion...



. TENTOGRA turntables

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