Phono Preamplifier 66 | Test Test | 67



Teammates

Turntables:

- · TechDAS Air Force III / Reed 1X
- · Clearaudio Master Innovation / TT2

Cartridges:

- · Ortofon Windfeld Ti
- · Lyra Etna
- · Skyanalog G1

Preamplifier:

NEM PRA-5

Power Amplifier:

Silvercore Collector's Edition

Loudspeakers:

- DIY Mini Onken / Focal / JBL
- · Cube Audio Nenuphar Mini

Opponents

- Phono Preamplifiers:

 · Malvalve preamp three phono
- · Lehmann Decade Jubilee

68 | Test | Phono Preamplifier RCM Big Phono Preamplifier | Test | 69



Music

Can Tao Mago

Mumford & Sons Sigh No More

Yamamoto Tsuyoshi Trio

Countig CrowsAugust And Everything After

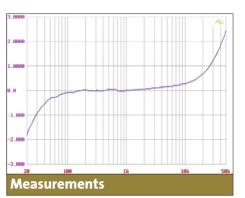


The "normal view" of the display. It shows the selected input, the gain, and the input impedance

It is plainly and simply called "Big Phono." This is not particularly original, but it does hit the nail on the head with seldom witnessed accuracy. We are dealing with an uncompromising phono preamplifier housed in two vault-like aluminum castles, the price of which you do not want to know. That is an astonishing contrast to the two other devices from the RCM program that are also responsible for pickup signals. One of them has already been able to show itself off very successfully in our listening room.

RCM Audio is a venture of Polish hi-fi whiz Roger Adamek. He serves the Polish market as a distributor of a whole range of high-quality audio products in real life, and he does so quite successfully. This provides freedom for a company like RCM, through which Adamek realizes his ideas of high-quality hi-fi.

One of his sales products are the Danish luxury devices from Vitus Audio. Regular readers of this magazine will remember that the rather extreme constructions of Hans Ole Vitus have been our guests several times. One of the manufacturer's phono preamplifier heavyweights has taken Roger Adamek's fancy, and the "Big Phono" is, by all accounts, his attempt to create something at least halfway adequate. The similarities between the two devices are limited to the target group; RCM went completely different ways than the Danes. The study of the two-piece must inevitably begin with its outfit because that is truly spectacular. The two heavy cuboids, almost as deep as wide, are finished in such a matte black that they almost wholly swallow any light falling on them. There is also hardly anything for the eye to "cling" to. The display of the amplifier section is hidden behind a likewise matte black pane, and the four buttons are also virtually invisible. There are only visible screws on the back and at the bottom. Otherwise, there



Measurement commentary

The frequency response measurement reveals the two specialties of the device: a subtle rumble filter, whose minus-three decibel point should be in the area of ten Hertz, and the Neumann constant, which provides for a rise at the very top. Otherwise, exemplary linearity prevails.

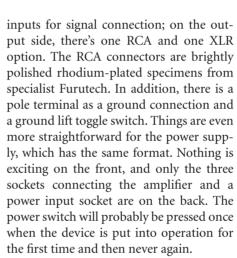
The unit amplifies between 41 and 61 decibels, which is practical. The external voltage spacing at maximum gain and 0.5 millivolts at the input is 63 decibels(A), channel separation is 57 decibels, and distortion is 0.08 percent. The device constantly consumes just under 95 VA.

is strict self-denial. Ultimately, the metal surfaces belong to solid aluminum blocks, in which a CNC machine has created the necessary free spaces and turned them into two tightly fitting case shells. This is a unique cabinet design. Roger Adamek commissioned one of the most capable minds the industry offers for such jobs: the Bulgarian Ruman Artaski, founder and director of Thrax Audio. Hardly anyone in the hi-fi industry has such exquisite possibilities and skills for metalworking, as the Thrax products prove.

This is definitely where a noteworthy part of the budget for the Big Phono goes. On the back of the amplifier compartment, there are three sockets for connection to the power supply. The different-pole connectors are protected against polarity reversal. There are two pairs of RCA

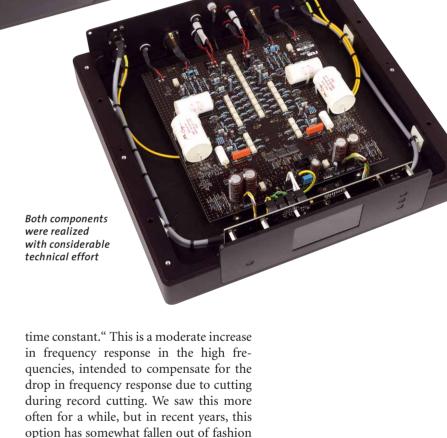


The Big Phono has two unbalanced pickup inputs



To round things off with the connections: The cables connecting the power and amplifier sections are two meters long, which is sufficient.

After loosening four solid bolts on the bottom of the device and a few smaller ones on the back, the aluminum mountain allows a view into the inner sanctum. And the manufacturer did not stint here either but rather splurged a lot. The largeformat multi-layer motherboard houses a complex construction dominated by integrated operational amplifiers and tons of relays. The latter is needed because the Big Phono's gain and pickup termination can be changed comfortably from an armchair. This requires a lot of components to be switched, hence the many "white blocks." The Big Phono has a fixed rumble filter and a fourth time constant in the equalization. The latter is also known as the "Neumann



again. Roughly speaking, I count a whop-

ping 19 operational amplifiers for each

channel of the Big Phono. Despite the fair-

ly complex topology of the unit, that's still

an almost obscene amount of silicon. The

trick is that the gain on this unit is spread

over a total of five stages. Roger Adamek

told me that running the individual stages

at low gain, but connecting multiple units

in series for this purpose, has proven to be

sonically and measurement-wise advan-

tageous. Equalization according to the

RIAA curve is done passively, with each

"filter pole" isolated from its neighbors by

a dedicated amplifier stage. This is indeed

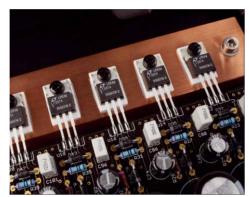
unusual at this level of consistency.



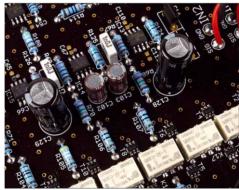
[P_6-2021] [P_6-2021]



Two of these transformers provide channel-separated power supplies.



No less than 20 voltage regulators ensure well-defined conditions at every point of the circuit



The amplification is in the hands of numerous operational amplifiers in SMD design

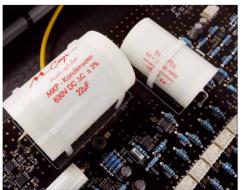


The circuit's topology is largely unbalanced, but a balanced signal is available at the XLR outputs. A glance at the power supply reminds more of a Class A amplifier than the power supply of a phono preamp. This is partly due to the two large sheet metal package transformers, which provide the supply voltages separately for each channel. Transformer number three is of a less expansive design and is responsible for supplying the control logic. On massive copper rails, 20 – no, not final transistors, but integrated voltage regulators - cavort. They provide all amplifier stages in the other compartment with separately stabilized DC power. Hence the three multipole connection cables between both devices. Admittedly, this is a lot of technology that RCM brings up here. But with an announced retail price of 35,000 Euros, that's also the minimum of what I expect.

The pleasantly simple yellow display comes to life when the device is put into operation. The Big Phono comes with an Apple Remote as a remote control, which can be used to access all of the device's functions. The gain is displayed as the nominal cartridge output voltage. There are seven values between 5 and 0.3 millivolts to choose from, with 5 and 2.5 millivolts aimed at MM and high-output MC cartridge operators. The same applies to the input impedances. Here you can select eight values between 20 ohms and 47 kiloohms. Once again, no expressis verbis distinction is made between MM and MC operation.

In keeping with the festive occasion, I connected the Big Phono to the stunning Lyra Etna, which has felt right at home under a Clearaudio tonearm for some time. Finding the appropriate impedance is pleasantly easy from an armchair, and the sound locks in at 400 ohms: The Etna lives up to its explosive character on the RCM. I've seldom heard Jacky Liebezeit drum as hard as iron as on the magnum opus "Tago Mago" by Can. The whole album sounds like pure adrenaline: everything is dynamic to the max, every note rocks, everything is in motion. The great MalValve tube preamp three phono doesn't manage that with this fervor. Exuberant emotionality also helps the first Mumford & Sons album, "Sigh No More" – here, a rumbling, powerful bass joins the action. I like the sustained beginning of most of the album's tracks, which build up to a wild staccato. RCM and Lyra deliver the fire it needs for this performance with ease. Numerous samplers and records later, one thing is sure: the RCM may be expensive as hell, but it's also excellent. It sounds mercilessly powerful, transparent, and crisp. It's not a show-off, and it's not an atmospheric whim. It shows what it's all about, and with rarely experienced fervor.

Holger Barske



The coupling capacitors in the Big Phono are from Mundorf



» RCM's luxury phono is just the thing for listeners who enjoy a decidedly dynamic and powerful pace. With the suitable cartridges, the device unleashes a merciless sonic firework.



RCM Big Phono

Price: approx: 35000 Euro
 Distribution: Audio Offensive, Falkensee
 Telephone: 03322 2131655
 Internet: audio-offensive.de

Guarantee: 2 years
Dimensions: each 430 x 145 x 410 mm (WxHxD)

Weight: approx. 25 / 33 kg