

# Goldmund

March 2009 / Telos 5000



## A 5000 Watt powerhouse...

### Creating the finest amplifiers...

For over a decade now, swiss based company **Goldmund** has designed and manufactured some of the finest amplifiers the world has laid eyes or ears upon. Today, it is widely known that a number of the best loudspeaker manufacturers use **Goldmund Amplifiers** more than any other brand, to ensure the finest demonstrations of their own products.

### Limited Edition Telos...

After three years of intensive development, **Goldmund** are both proud and very excited to launch the **Telos 5000 mono power amplifier (pair)**. As you read further on you will discover that the **Telos 5000** is no ordinary amplifier. In point of fact, it is anything but, making it all the more extraordinary and the finest reference amplifier **Goldmund** has ever made. In order to create the **Telos 5000** and make it a reality, you have to take cost out of the equation and that is exactly what **Goldmund** did and does when creating all its reference statement products.

Limited to just 20 pairs, all of the **Telos 5000** units have been pre-sold and like all other **Goldmund Reference products**, they will rapidly become a valuable collectible among privileged audiophile collectors and music lovers.

### Three years in the making...

The development laboratory at **Goldmund** has spent a great deal of time intensively developing the **Telos 5000**. Although developed from the schematics of the **Telos amplifier**, in order to create the ultimate amplifier, **Goldmund** created many new and innovative circuit designs. For example, the **Telos 5000** is the first high-end audio mono amplifier capable of delivering an astonishing **5000 Watts** without distortion. Regardless of load, the **Telos 5000** can drive any loudspeaker with true ease.

Many of the innovations in the **Telos 5000** are unique and many have never been used in an audio amplifier before. **These include (see page 2):**

## Alize 7 D/A Converter

The **Alize 7 D/A Converter** is a completely NEW design, which adds the dynamics from three of the **best D/A chips in existence** to create an incredible final resolution above 130dB. Already released as a separate circuit in the **Mimesis 20.7 outboard D/A converter**, the **Alize 7** built into the **Telos 5000** improves over any pre-existing designs. Its ability to recreate 3D space by lowering the noise level to levels barely measurable is astonishing.

## Input Circuit

The **Input Circuit** of the **Telos 5000 amplifier** is also completely NEW. Using **4 x Class A modules** (completely NEW topology), the level of noise and distortion is reduced to levels never encountered before.

## Output Circuit

The **Output Circuit** uses an incredible **72 Power Mosfets**, which have been specially calibrated for the **Telos 5000**. A NEW type of **cascade/bridged circuit** increases the amplifier's speed above anything ever achieved, even in the other **Goldmund Telos amplifiers**.

It is powered by a phenomenal **stack of 24 huge ultra-low impedance filtering capacitors**, which again are designed specifically for the **Telos 5000** with a total value approaching **0.2 Farads**.

## Transformer Bloc

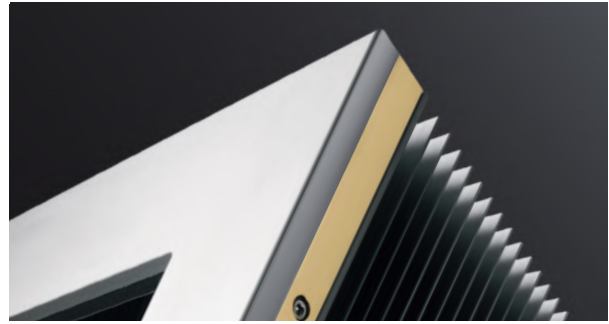
The **Transformer Bloc** uses **16 separate transformers** that have been specially made in England for the **Goldmund Telos 5000**. It can develop close to 10'000 Watts and is deeply moulded in an epoxy mix providing excellent vibration and noise reduction.

## Protection Circuit

The **Protection Circuit**, which has been developed from the other **Telos amplifiers**, is actually faster so careful attention has been made to protect against any overload. This can be a very difficult task for such a fast amplifier, which is capable of delivering more than **200 amps** in a few nanoseconds, but the **Telos 5000** will protect any loudspeaker connected to it.

## Build

The **Telos 5000** weighs more than 260kg per piece and is housed in a beautifully elegant tower measuring 94 x 47 x 39 cm. Two sides are used for the cooling heatsinks and the hard brass construction pushes the **Goldmund Mechanical Grounding** construction principle to a level never achieved before without any serious consideration for the associated cost.



## TECHNICAL SPECIFICATIONS

### Power

- Maximum Instantaneous Power:
  - 1510W for 8 ohms
  - 3020W for 4 ohms
  - 6050W for 2 ohms
- Maximum Continuous Power:
  - 1250W for 8 ohms
  - 2500W for 4 ohms
  - 5000W for 2 ohms
- Maximum instantaneous current: 252A peak
- Maximum Voltage swing: 110V peak

### Frequency Response

- +/- 0.1 dB, 0 - 300 kHz
- +/- 1 dB, 0 - 800 kHz
- +/- 3 dB, 0 - 2.5 MHz

### Noise

- Signal to noise: > 122 dB
- A weighted: > 138 dB

### Circuit Speed

- Slew rate : > 200 V/us.
- Rise time : < 200 ns.

### Group Delay

Propagation delay < 100 ns stable with frequency from DC to 200 kHz.

### Distortion

- THD + N input stage analog: 0.0005% (1Vrms input, 80kHz bandwidth measurement)  
Bal or unbalanced in and for any input attenuation settings (flat with freq, 20Hz - 40 kHz)
- THD + N input stage + DA: 0.0005% (0dBfs, 80kHz bandwidth measurement)  
Bal or unbalanced in and for any input attenuation settings (flat with freq, 20Hz - 40kHz)

### Inputs and Outputs

- RCA analogue unbalanced input
- XLR analogue balanced input
- RCA digital S-PDIF Input and Output
- 2 x 5-way binding post and 4 x Balanced Goldmund Speaker cable Lemo connectors for power output.

### Maximum Analog Input Level

- 4.8 Vrms unbalanced
- 9.6 Vrms balanced

### Power Supply

- 16 separate transformers. Hyper-velocity rectifiers and large batch of 24 ultra-low impedance capacitors to increase speed.

### Size & Weight

- 94 x 47 x 39 cm
- Weight: 260kg