ANALOG MASTERPIECES

exclusive handmade analog turntables
Products by ACOUSTIC SIGNATURE first appeared in 1996. World-wide prestige came as early as 1997, when Gunther Frohnhöfer and his team developed the first mass turntable and achieved excellent test results in Germany as well as in the US. Shortly afterwards these turntables were exported all over the world. Ever since, their clear design and outstanding price/performance ratio have led to strong demand. „Made in Germany“ is important to us – more than ever more, in the face of the rising trend to buy everything from the cheapest supplier.

We purchase everything, we do not produce ourselves from the best supplier not the cheapest. This striving for perfection in order to create the perfect listening experience is an attitude found less and less frequently. To us, though, this attitude has always been important, and we even focus more and more on it. The team around Gunther Frohnhöfer now comprises 22 qualified co-workers, including goldsmiths, watchmaker, engineers, electrical engineers, precision lathe operators, and specialists in other fields.

We focus on development with cutting-edge CNC in combination with „State of the Art“ CAD/CAM systems. All our products are produced and assembled by our specialists in 100 % manual work at our company located in Süssen near Stuttgart. Only this passion and the love for fine detail make it possible to create something truly great. Dedicated co-workers with a passion for building turntables for you. With quality in materials we do not compromise on, and perfect workmanship. Meticulous engineering and manufacturing based on absolutely top-notch technology in the production machines. All of this results in precision mechanical products that set new standards. We work hard, and every day we raise the bar.
Visionary “State of the Art” engineering is coupled with advanced technologies. This is why the INVICTUS has that unique magic of opulence, sophistication, dynamism and quality.

The INVICTUS turntable, which took no less than three years to develop, is the result of intensive research and development work at the ACOUSTIC SIGNATURE-Manufaktur. A total of 479 components, assembled individually and by hand, make up this incomparable turntable.

Thanks to its design, which allows adding up to four tone arms, the INVICTUS can be equipped with just about any tone arm available, enabling unprecedented flexibility while fulfilling the most stringent requirements. The INVICTUS ground base consists of an elaborately milled bottom part, optimized according to the latest scientific on mechanics and using the finite elements method for stiffness and low vibration, covered by a perfectly milled top plate on which the actual INVICTUS chassis rests.

The INVICTUS itself is a work of art and able to offer a perfect basis for up to four tone arms at the same time. The 3 layer aluminum and brass sandwich platter is entirely new and uses CLD-technology. A highly damped platter with high rotational energy.

54 Silencers with their vibration absorption add that last iota of perfection. Another step ahead in sound quality. And the difference between it and other turntables isn’t trivial or a matter of nuance. Looking at our Tidorfolon bearing, whoever has an eye for things special will recognize immediately how this hand adjusted bearing is virtually perfect for guiding the platter with almost no slackness and, at the same time, no friction and no noise. Enthusiasts and experts around the world appreciate and admire our Tidorfolon-bearing for its precision and legendary reliability. It is always manufactured with the greatest love for detail and precision.

Another very important component for an extraordinary turntable is the motor. To develop it, we made a completely fresh start and put in our 20 years of experience. The result is a 6-motor drive moving a tapered sub platter that bears the main platter. Thanks to the 6 motors, the platter gets enormous power for quick run up and stable speed. The circular arrangement around the bearing completely avoids tension on the bearing, so that it can run perfectly centered.

At the end, the result is a dramatic improvement. Just good enough go into the INVICTUS. The INVICTUS is our statement in turntable building, and that compares favorably even with much more expensive products. Each one of my 22 co-workers has given their best for the INVICTUS and we are very proud of that.

“The INVICTUS is (by far) the best record player that I have heard in my home.”

Jonathan Valin, The Absolute Sound, June 2016
Like father and son.

His father the INVICTUS has received cult status direct after it was released. Reviewed as the best turntable in the world he still is an extraordinary experience.

But as the INVICTUS is a real large turntable our aim was to create a turntable with a sonic performance close to the INVICTUS but with a much smaller footprint. By using latest visionary “State of the Art” engineering technique and most sophisticated computer programs we developed this son INVICTUS jr. Extensive use of CLD technology and modern CAD analysis created a fantastic new turntable.

Thanks to its design, which allows adding up to four tone arms the INVICTUS jr. gives you maximum flexibility. The ground base consists of an elaborately milled bottom part, optimized according to the latest scientific on mecha

ics and using the finite elements method for stiffness and low vibration, covered by a perfectly milled top plate on which the INVICTUS jr. chassis is mounted. The 3-layer aluminum and brass sandwich platter is entirely new and also uses CLD technology. A highly damped platter with huge rotational energy. 54 Silencers with their vibration absorption add that last iota of perfection. Another step ahead in sound quality.

By looking at the main platter Tidorfolon-bearing you will recognize immediately how this hand adjusted bearing is virtually perfect for guiding the platter with almost no slackness and, at the same time, no friction and no noise. Enthusiasts and experts around the world appreciate and admire our Tidorfolon-bearing for its precision and legendary reliability. It is always manufactured with the greatest love for detail and precision.

Another very important component for an extraordinary turntable is the motor. To develop it, we put in our 22 years of experience. The result is a 4-motor drive moving a tapered sub platter that bears the Slimmer platter. Thanks to the 4 motors, and the digital motor controller the platter gets enormous power for quick run-up and stable speed. The circular arrangement around the bearing completely avoids tension on the bearing, so that it can run perfectly centered.

At the end, the result is a dramatically improved turntable. Just good enough go into the INVICTUS jr. Each one of my 22 co-workers has given their best for the INVICTUS jr. and we are very proud of that.
Our goal was achieved when we set out to design a new milestone in turntable performance, aiming for an ultimate high mass turntable, but still elegant and stylish.

The ASCONA represents the full realization of that goal, a pinnacle of achievement and outcome of our 21 year in-house research, design and ultra-precision machining expertise. The ASCONA story starts from the top down with the record platter; we know that the perfect turntable requires a resonant free platter rotating with perfect stability.

Here are some of the many technical features and sections we machine that make the ASCONA such an outstanding design.

The chassis is milled out from a 75 mm thick block of aluminum and forms the integrated turntable ground plate. Combined with the new platter the ASCONA has a weight of 80 kg. We grind the surface by hand, a lengthy but essential process to achieve a stunning surface perfection with a visual presentation to match.

The ASCONA employs a unique resonance control technology called Silencer. 24 large Silencers are used for the main body of the platter and 30 small Silencers on the very outer diameter of the platter, requiring a platter diameter of nearly 13.8 inches to accomplish this.

The heart of the new ASCONA marries our very substantial aluminum plinth measuring more than 75 mm with a 50 mm thick massive aluminum platter with a total weight of nearly 21 kg. These components are matched to our unique Tidorfolon-bearing, resulting in a perfect symphony of design and execution. This is further complimented with a new fully designed digital motor system which provides flawless speed stability and easy user interface.

We at ACOUSTIC SIGNATURE believe that the motor system for a turntable should have enough force and inertial energy to obtain proper platter speed but not influence it during rotation. We reached that goal by using 3 European made synchronous motors with our own “State of the Art” motor controller. The motors sit beside a cone-shaped sub-platter propelled by this 3-motor drive system. The round assembly surrounding the bearing prevents any tension to the main bearing so that it can spin perfectly centered.

Our Tidorfolon-bearing allows anyone with an eye for the extraordinary to instantly recognize how this hand-tuned slide bearing has been perfectly formed to guide the platter with approximately no clearance and likewise no friction or sound. Our Tidorfolon bearing is valued and admired by fans and experts all over the world for its precision and its legendary reliability. It is always manufactured with great love for detail and precision in accordance with the best fine mechanical tradition.

The tone arm mounting plates are fully adjustable to accommodate the mounting of any desired tone arm design, with a maximum of 3 tone arms permitted.
The THUNDER MK3 is a consequent developed new design. It’s all combined with the award-winning performance, elegance, convenience and comfort that have made the mass turntable series so successful. Get ready to experience of the THUNDER MK3 series – now perfectly suited to your own unique style. THUNDER MK3 is designed and built for exceptional music reproduction, outperforming turntables selling for much more. The turntable plinth has been designed for optimum solidity, while the large footprint of the table generates even more stability to increase the weight concentration at the base of the turntable. The plinth of nearly 70 mm thick solid aluminum chassis forms the base of the turntable, on which up to three arm attach- ments can be fitted for either 9”- or 12”-tonearms of any design or manufacturer.

Our 50 mm thick solid turntable platter is made of aluminum with a total of 24 ACOUSTIC SIGNATURE-Silencer inserts. The Silencer-platter development target was clearly defined; total elimination of any resonance or vibration due to intro- duction of airborne or coupled acoustic energy. We achieved that any introduction of vibrational energy is quickly reduced and the platter is immediately damped and quieted. The motor system for a turntable should have enough force and inertial energy to obtain proper platter speed but not influence it during rotation. We reached that goal by using European made synchronous motor located to the left of the platter, with our own “State of the Art”-digital motor controller. As we have designed the drive unit to be separate from the chassis, there is no direct contact which avoids transfer of any vibration into the turntable.

Our Tidorfolon-bearing allows anyone to hear and instantly recognize how this hand-tuned slide bearing has been perfectly formed to guide the platter with approximately no clearance or friction or sound. Our Tidorfolon-bearing is valued and admired by music lovers and engineers all over the world for its precision and its legendary reliability. It is always manufactured with great love for detail and precision in accordance with the best fine mechanical tradition.

The tone arm mounting plates are fully adjustable to accommodate the mounting of any desired 9” to 12” tone arm design, with a maximum of 2 tone arms possible.

Our all new MONTANA is designed as a statement product in a more economical range than the reference products INVICTUS and INVICTUS jr. We implemented all the technology we used in our top of the line products like the Tidorfolon-bearing, sub-platter with 3-motor drive system and the ACOUSTIC SIGNATURE fully digital motor controller. We implemented CLD technology (Constraint Layer damping) which brought all our products to a higher level of performance. The new MONTANA also uses 24 Silencer pressed into the aluminum platter for resonance control, as standard.

The round assembly surrounding the bearing, prevent any tension to the main bearing, spinning perfectly centered. Our Tidorfolon-bearing allows anyone with some patience, to instantly recognize how this hand-tuned slide bearing has been perfectly designed to guide the platter with approximately neither clearance nor friction or sound. Our Tidorfolon-bearing is valued and admired by music lovers and engineers all over the world for its precision and its legendary reliability. It is always manufactured with great love for detail and precision in accordance with the best fine mechanical tradition.
The STORM 2018 turntable weighs in at nearly 28 kg and provides all the advantages that true high mass turntables deliver. STORM 2018 offers rock solid and tuneful bass, a stable and focused midrange, clear and detailed high frequency reproduction by producing a soundstage that delivers both – natural delicate musicality and great authority. Of course, STORM 2018 also has very low mechanical noise courtesy based on our unique Tidorfolon-bearing design, and an externally positioned motor, run by our Beta-DIG regenerative power supply to ensure perfect rotation of the new platter. The STORM 2018 comes with a precisely manufactured Aluminum platter has a weight of 11 kg which includes 8 Silencer modules to dampen resonances. The platter is additionally coated underneath with a specialized high efficiency damping material to achieve even better results. This high mass platter in combination with the smooth running Tidorfolon-bearing is only one of the many unique reasons why the STORM 2018 excels, and provides unparalleled musical experience and turntable performance in its price range.

We believe that the motor system for a turntable should have enough force and inertial energy to obtain proper platter speed but not influence it during rotation. We have designed the drive unit to be separate from the chassis, in order to achieve that goal. The platter is a perfect fit for the Tidorfolon-bearing spinning the platter. Up to 3 arms can be placed around the plinth and are easy adjustable.

The CHALLENGER 2018 turntable weighs in at 23 kg, to offer you our statement in entry level high mass turntable. With this latest CHALLENGER 2018 design, we bring together one of the most sophisticated external drive and power supply systems, with a massive high mass 50 mm thick platter, supported by a solid 40 mm thick chassis. The new CHALLENGER 2018 is a consequent improvement of the former design. It’s combined with the award-winning performance, elegance, convenience and comfort that have made our mass turntable series so successful all over the world. At the new CHALLENGER 2018 the massive aluminum platter is a perfect fit for the Tidorfolon-bearing spinning the platter. Up to 3 arms can be placed around the plinth and are easy adjustable.

Our digital motor electronic Beta-DIG provides perfect speed stability and easy operation. All parts together result in the sound of a CHALLENGER 2018 so outstanding for its price class. We at ACOUSTIC SIGNATURE believe that a motor system for a turntable should have enough energy to speed up the platter but not influence it during rotation. We reach that aim by using a European made synchronous motor with our own “State of the Art” motor control. This engine system is absolute stable in its rotation speed and in combination with the digital control easy to use and reliable. The CHALLENGER 2018 can handle up to 3 motors and 3 tonearms at the same time.
We at ACOUSTIC SIGNATURE built excellent turntables – real mechanical masterpieces – for more than 20 years now. The DOUBLE X was designed to offer a product to music lovers looking for a more classic and traditional design. The used wooden veneer is covered with a 10 layer piano finish.

Beside this elegant look the DOUBLE X is full of modern technologies and ideas. It comes with a sandwich design of the plinth made from steel and aluminum and wood. This clever arranged sandwich results in high internal damping and great sonic performance. It’s all combined with the award-winning performance, elegance, convenience and comfort that have made our mass turntable series so successful all over the world.

At the new DOUBLE X we combine a massive sandwich plinth of 60 mm with a 50 mm massive aluminum platter. The sandwich is made by using laser cutting and flexible glue. The DOUBLE X comes with a precisely manufactured 11 kg aluminum platter. The platter is additionally coated on the back side with a high damping material to get great results. An 8-Silencer-platter is part of the DOUBLE X design. We at ACOUSTIC SIGNATURE believe that a motor system for a turntable should have enough energy to speed up the platter but not influence him during rotation. We reach that aim by using a precision DC-motor with an internal speed control.

The MERLIN turntable weighs in at 16 kg and marks our new entry to our series of mass turntables. With the MERLIN design, we bring together one of the most sophisticated external drive and power supply systems, with a massive turntable design at a very reasonable price. It’s all combined with the award-winning performance, elegance, convenience and comfort that have made our mass turntable series so successful all over the world but at a lower price point.

At the new MERLIN we combine a massive aluminum plinth of 40 mm with a 34 mm massive 6,4 kg aluminum platter. All parts in high gloss polished surface. Additional coating on the back side with a high damping material further improves the resolution and fine dynamics. This is a perfect fit for the Tobolifon-bearing spinning the platter. Our analog motor electronic provides perfect speed stability and ease operation. All parts together result in the sound of the MERLIN so outstanding for his price class.

We at ACOUSTIC SIGNATURE believe that a motor system for a turntable should have enough energy to speed up the platter but not influence him during rotation. We reach that aim by using a European made synchronous motor with our own motor control. This drive system is absolute stable in his rotation speed easy to use and reliable.

The bearing is the heart of every turntable. At the base of the bearing, we use our specially developed „high-tech“ material Tobolifon. The Tobolifon-bearing is life time maintenance free and covered with a 10 year warranty.

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MAXIMUS – the name is self-explanatory! Maximum spinning/turning smoothness due to a new controlled DC-motor. Maximum perpetual speed, due to an optical sensor controlling and automatically adjusting the speed. Perfect spinning speed with minimized flutter/speed drop. Maximum user comfort.

PRIMUS was designed and engineered to achieve outstanding performance far beyond the expectations of an affordably priced turntable. Excellent build quality, reliability and a lifetime of musical enjoyment. No unnecessary gimmicks, ACOUSTIC SIGNATURE concentrated the manufacturing costs on the high quality parts necessary for accurate LP reproduction. The new PRIMUS is a consequent transformation of the retro design. Get ready to experience the PRIMUS – now perfectly suited to your own unique style. Perfect surface quality combined with the latest technology.

The table of the MAXIMUS itself is cut out of the full solid aluminum block, slightly satin finished with a total weight of more than 10 kg and heavy weight turntable. The table contains a rubber embedded motor and changeable armboards upon customers choice. The fully digital control electronic enables speed change on a fingertip. The MAXIMUS is equipped with the top of the line the 34 mm high full aluminum platter, similar to the ACOUSTIC SIGNATURE developed and handmade Tidorfolon-bearing, which is total noise and maintenance free. Due to its industrial design of the table construction combined with all handling comfort the MAXIMUS takes every daily listening to a memorable experience.

At the new PRIMUS we combine a MDF and chipwood-sandwich and a high gloss surface to reduce vibration. This sandwich construction is a perfect fit for the Tidorfolon-bearing holding the platter. A new DC-motor combined with “State of the Art”-regulating electronic, provide perfect speed stability and easy operation. The PRIMUS comes with a precisely manufactured aluminum platter. He is produced out of a solid piece of soft aluminum. To improve his resonance behavior the platter is additionally coated on the back side with a high damping material to get great results. The thickness of 24 mm gives him a weight of 4,5 kilogram. Much more than normally used in this price point.

We at ACOUSTIC SIGNATURE believe that a motor system for a turntable should have enough energy to speed up the platter and keep him steady spinning but not influence him during rotation. We reach that aim by using a new developed DC-motor drive combined with our own “State of the Art” motor control and a external power supply.

The platter bearing is the heart of every turntable and ACOUSTIC SIGNATURE have invented a bearing with the ideal performance characteristics of exact fit, extremely low noise, very low friction and long term stability covered with 10 years warranty.

The MAXIMUS SE (Special Edition) is a technical advanced version, maximizing the listening result again. It is equipped with a platter containing 8 Silencers and a more advanced power supply for a higher listening performance.

MAXIMUS SE (Special Edition) was designed and engineered to achieve outstanding performance far beyond the expectations of an affordably priced turntable. Excellent build quality, reliability and a lifetime of musical enjoyment. No unnecessary gimmicks, ACOUSTIC SIGNATURE concentrated the manufacturing costs on the high quality parts necessary for accurate LP reproduction. The new PRIMUS is a consequent transformation of the retro design. Get ready to experience the PRIMUS – now perfectly suited to your own unique style. Perfect surface quality combined with the latest technology.
Why an extreme product like the TA-9000. The objective was to rethink everything for which an optimal solution did not yet exist on the market. An innovative tone arm tube and highly precise, minimal preloaded ball bearings for the vertical and horizontal axes guarantee that the TA-9000 follows the pickup demands, guiding it perfectly and ensures reading every groove on a vinyl record precisely. The two tubes are externally conical but internally round. The tubes are connected with hundreds of elements. The tubes are bound together tightly by more than 700 pads. These are designed to be similar to tree branches and are arranged inside the tube in a spiral. All this is made in one single piece of aluminum – like never before. To sum it up, this is an unprecedented arm tube. To date, it accomplishes the until now not accomplishable requirements for a light-weight, extremely stiff but simultaneously damping tube. Perfect for every pickup. Perfect for our top of the line tone arm TA-9000. A tone arm should guide the needle flawlessly and not create any friction – neither horizontally nor vertically.

At best, it should not present any bearing clearance or friction. This has not worked mutually until now. The ball bearing for horizontal and vertical movement sourced from the US specialist TIMKEN. TIMKEN, in fact, manufactures the ultra-precise bearings for astronautics. We personally select ours. Only the best of what is delivered make it into the TA-9000. These bearings are then meticulously adjusted and incorporated always from the same experienced specialist. We provide both bearings with a little bit of prestress that eliminates clearance and nevertheless maintains extremely low friction. The internal cabling consists of a continuous pure silver cable that leads from the pickup pins to the 5 pin connector positioned in the arm shaft. The counter weight is manufactured in brass. The TA-9000 is available in 9 and 12 inch length.

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There were no real limitations for the TA-5000 – we could draw on wide resources. The objective was to rethink everything for which an optimal solution did not yet exist on the market. An innovative armtube concept combined with pretensioned hybrid bearings ensure that the TA-5000 is a perfect host for any cartridge mounted. The TA-5000 will perfectly guide the cartridge in the groove. The tone arm tube on a tone arm should be as stiff and light as possible and, at the same time, damping. Until now this has been impossible. A true solution that verifiably combined all the conflicting features did not yet exist. At the TA-5000 we use a combination of 3 layers of carbon materials which are bonded with damping elements between the 2 tubes. The ultra high precision ball bearing for horizontal and vertical movement are made from hard steel and ceramics. Only the best of what is delivered make it into the TA-5000. These bearings, are then meticulously adjusted and incorporated always from the same experienced specialist. Even here, during assembly we attempt to achieve the demand for zero clearance and zero friction. We provide both bearings with a little bit of prestress to receive this. You can’t see all the efforts we make – but you can easily hear it. TA-5000 is available in 9 and 12 inch length.

Our Top of the line tone arm TA-9000 was a real Game changer to the industry. The used technology really brought making reproduction to the next level. So we took the technology of the TA-9000 and put it into a more affordable design, trying very hard to keep the performance level very close to the TA-9000. The results are an innovative tone arm tube and highly precise, minimal preloaded ball bearings for the vertical and horizontal axes are also part of the new TA-7000. This parts guarantee that the TA-7000 follows the pickup demands, guiding it perfectly and ensures reading every groove on a vinyl record precisely not more but even more important not less.

The arm tube of the TA-7000 consists of a super rigid Carbon tube with conical shape. Internally bonded with an epoxy coat. And inside the Carbon tube we use a multi structure printed insert that gives additional stability but mostly it gives the exact right amount of damping to the hard Carbon tube. The result is a nearly perfect arm tube. Light weight, super rigid but with the exact amount of internal damping to absorb the energy the cartridge sends into the arm. The tubes are bound together tightly by a flexible glue increasing the frequency absorption.

To sum it up, this is another unprecedented arm tube. Perfect for every pickup. Perfect for our top of the line tone arms like the TA-5000. A tone arm should guide the needle flawlessly or jitter and not create any friction – neither horizontally not vertically. At best, it should not present any bearing clearance or friction.

With the experience made and the knowledge gained in designing the TA-9000 we use this knowledge for the TA-7000 also. The ball bearing for horizontal and vertical movement sourced from the US bearing specialist Timken. Timken, in fact, manufactures the ultraprecise bearings for astronautics. We select ours one by one. Of what is delivered, only the best will make it into the TA-7000. These bearings are then meticulously adjusted and incorporated always from the same experienced craftsmen. We provide both bearings with a little bit of preload that eliminates clearance and nevertheless maintains extremely low friction. The internal cabling consists of a continuous pure silver cable that leads from the pickup pins to the 5 pin connector positioned in the arm shaft. The counter weight is manufactured in brass. The TA-7000 is available in 9 and 12 inch length. The TA-7000 is designed to be a medium heavy tonearm to suit most of the cartridges available on the market.
At our classic bestseller the TA-1000 we only use precision miniature bearings from the manufacturer SKF. The bearings are ultra-precisely adjusted during the production process. The bearings are added with minimal pre-pressure for zero backlash to achieve a minimum friction and maximum stability. When it comes to arm tubes – 2 mutually exclusive conditions need to be combined. Maximum stiffness and low resonance achieved by internal damping. Very stiff materials are hard and therefore very susceptible to resonance. The solution is a custom made dual carbon tube. The two pipes are joined by connecting elements. This creates a very rigid tube with a high internal damping and resonance. The TA-1000 uses a Mogami cable for internal wiring.

To set up a pickup perfect it is required to compensate the possible misalignments of the stylus. For this you simply open 3 small screws and then the arm tube can be swiveled for ± 5 degrees so the angle can be adjusted perfect for each cartridge. If these screws are again tightened the arm tube sits stiff and perfectly adjusted. This fantastic piece of art is available in 9 and 12 inch length.

Also available in black or gold.

At our classic bestseller the TA-2000 we only use precision miniature bearings from the manufacturer SKF. The bearings are ultra-precisely adjusted during the production process. The bearings are added with minimal pre-pressure for zero backlash to achieve a minimum friction and maximum stability. When it comes to arm tubes – 2 mutually exclusive conditions need to be combined. Maximum stiffness and low resonance achieved by internal damping. Very stiff materials are hard and therefore very susceptible to resonance. The solution is a custom made dual carbon tube. The two pipes are joined by connecting elements. This creates a very rigid tube with a high internal damping and resonance. When you consider that the signals of a pickup are very small you can well imagine, any decision about cable has great influence. We use a OFC copper cable for internal wiring.

To set up a pickup perfect it is required to compensate the possible misalignments of the stylus. For this you simply open 3 small screws and then the arm tube can be swiveled for ± 5 degrees so the angle can be adjusted perfect for each cartridge. If these screws are again tightened the arm tube sits stiff and perfectly adjusted. This mechanical piece of art is available in 9 and 12 inch length.

Also available in black or gold.
The TA-500 is a precisely manufactured precision-bearing 9 inch tone arm. The precision miniature ball bearings used are from manufacturer SKF. The bearings are added with minimal pre pressure for zero backlash to achieve a minimum friction and maximum stability. The arm tube is a custom made dual carbon tube. This creates a very rigid tube but still having a high damping and resonance. The TA-500 is only available with 5 pin connector and an Audioquest 5 pin cable is supplied with the arm.

The ACOUSTIC SIGNATURE TANGO REFERENCE is our absolute top class phono preamp — where we put all our experience and knowledge in and the sound quality reaches its maximum. No matter if you listen to a Beethoven piano or a concert guitar the REFERENCE phono plays music exactly as it was recorded. The single ended class A circuit provides highest resolution and imaging and speed. All capacitors used are selected and measured by hand to provide utmost precision in RIAA equalization. You can select settings for MM cartridges and all MC cartridges. Different gain stages provide a perfect match to each cartridge. Input resistance and capacity is widely selectable by DIP switches. Gain for MM, MC high or MC low output cartridges can be chosen at the front. There is no section inside the TANGO REFERENCE where you will find a compromise. An internal super charged linear power supply is used to provide clean and noise free supply to the phono board. With this phono preamp all the information stored in your vinyl is extracted. The electronic is built into a massive housing made from steel and aluminum. This elegant chassis made from a solid block shields the circuits from external influence and ads up to a total weight of 16 kg.
The ACOUSTIC SIGNATURE record clamp GRIP-S is a highly innovative design that eliminates record groove noise revealing a new level of musical performance. It is manufactured with our proprietary Silencer technology invented by ACOUSTIC SIGNATURE. The aluminum body is CNC machined for perfect alignment and balance. The Silencers used at the GRIP-S are made of copper and absorb resonances very effectively. They are pressed into the metal of the GRIP-S. This record clamp has a total mass of 752 grams and is designed to be used with a wide range of turntables from mid to high mass turntables.

For lighter constructions and sub-chassis players we suggest to use our regular GRIP. GRIP-S with its metal part manufactured from a high quality heat treated aluminum alloy is available in 3 colors: Silver or black anodized or high gloss non anodized. All versions of the GRIP-S deliver the same performance.
The ACOUSTIC SIGNATURE record weight LOAD-S is a highly innovative design that eliminates record groove noise revealing a new level of musical performance. It is manufactured with our proprietary Silencer technology invented by ACOUSTIC SIGNATURE. The aluminum body is CNC lathed for perfect alignment and balance. The Silencers used at the LOAD-S are made of copper and absorb resonances very effectively. They are pressed into the metal of the LOAD-S. This record weight has a total mass of 715 gram and is designed to be used with a wide range of turntable from mid to high mass turntable designs (15 lb platter and higher). For lighter constructions and sub-chassis players we suggest to use our regular LOAD. LOAD-S with its metal part manufactured from a high quality heat treated aluminum alloy is available in 3 colors: Silver or black anodized or high gloss non anodized. All versions of the LOAD-S deliver the same performance.

**LOAD-S**

**GRIP | LOAD accessories**

GRIP
Designed for our ACOUSTIC SIGNATURE turntables, it can also be used with almost any turntable. The GRIP gives you more pressure to the record as it is clamping on the platter spindle. The weight is 315 gram, height is 44 mm and the diameter is 68 mm and easy use. The GRIP is available in 3 colors: Silver or black anodized or high gloss non anodized.

LOAD
Designed for our ACOUSTIC SIGNATURE turntables, it can also be used with almost any turntable. The weight is 280 gram, height is 42 mm and the diameter is 68 mm. It provides great contact between record and platter and easy use. The LOAD is available in 3 colors: Silver or black anodized or high gloss non anodized.

**Our out of center weight lowers the center of gravity. Can be used on the regular rega arms. Weight 100 g.**

Perfect accessory to adjust the height of rega tonearms without removing them. Adjustment possible from 0.5 up to 3.5 mm for Set 1 and up to 6.5 mm with Set 2. Adjustment possible in steps of 0.5 mm.

Dual axis bubble level: Easy and precise leveling for turntables in one step.
Since we invented the “Silencer platter” in 2000 we have continuously improved the performance results and have now achieved platter damping that is unbeatable by any other product. The gold-plated Silencers are of course visually attractive and make the ACOUSTIC SIGNATURE turntables even more desirable than without them but good looks was not the reason to implement them into our products. 

At ACOUSTIC SIGNATURE we constantly look for new technology to be used in our products and push the performance of existing technology to a new level. In 2015 we introduced a new series of MC cartridges to the market which was very successful. Based on this experience we decided to develop a new cartridge line that pushes the level higher. By carefully implementing new manufacturing technology and resonance control techniques for the CNC machined housing of the cartridge we created this fantastic new series of MC cartridges called MCX systems.

The Silencers absorb and reduce vibrations whilst the vinyl disk is playing and you are listening. So, where do the vibrations come from, that we so wish to remove from the platter? There are several sources. First, the cartridge needle itself, placing a record causes vibrations and resonance in the needle, due to the movement of the needle when tracking the record groove. It’s easy to check by simply turning the volume down on your amplifier, you can still listen to the music directly from the needle/vinyl with your ear close to it. The needle is actually putting vibration back into the record as it tracks the groove, causing vibration in the whole vinyl record. This leads to “micro” mistracking of the cartridge, when picked up by the needle alongside the actual signal you want from the track, with a very small time delay between the two. The Silencers in the platter absorb some of this unwanted vibration and improve the sound reproduction dramatically. The second source of vibrations is as waves, hitting the platter and turntable body from your loudspeaker whilst you’re listening to music. Your cartridge/stylus doesn’t care where movement comes from, be it the grooves or other vibrations, your cartridge simply produces an electrical signal when vibrating and all vibrations coming through the turntable will resist in un-wanted signals, resulting in a loss of detail resolution and imaging from your precious vinyl records. The Silencers absorb these unwanted vibrations, leading to a huge improvement in sound fidelity, improving your listening experience.

To give you an idea how much the Silencers will improve the listening experience, we have conducted tests in an independent laboratory on two identical platters, one with and one without eight Silencers fitted. The results are dramatic.

Here you see the ringing of an aluminum platter. A peak at around 2.2 kHz and multiples up to 15 kHz. The peaks are more than 80 dB louder than a damped platter.

Here you see the ringing of a Silencer fitted aluminum platter. Virtually all resonances and peaks are reduced. The Silencer fitted platter allows no resonances more than 80 dB.