

Acu Horn series

ACUHORN MANUFACTURE

FROM GDANSK DESIGNS AND PRODUCES HIGH FIDELITY HORN LOUDSPEAKERS BASED ON ITS OWN GENUINE ACOUSTIC TYPE OF ENCLOSURE. ALL WORKS RELATED TO THE DESIGN AND PRODUCTION ARE TREATED WITH THE GREATEST CARE DOWN TO THE SMALLEST DETAIL. EACH DEVICE LEAVING THE WORKSHOP IS TESTED AND INDIVIDUALLY ASSESSED. WE FOCUS OUR ATTENTION ON OFFERING THE CLIENTS FULL RANGE HORN LOUDSPEAKERS THAT PRESENT AN UNEQUALLED EXAMPLE OF SOUND REPRODUCTION IN THE HISTORY OF PHONOGRAPH. ACUHORN PROPOSES ITS OWN ORIGINAL SOLUTIONS DEVELOPED AND TESTED ON MANY SPLENDID SYSTEMS. THE TRADITION AND PRECISION OF MANUFACTURING DECIDE ABOUT AN EXCEPTIONAL CHARACTER OF SOUND DELIVERED BY CONSTRUCTIONS COMING FROM GDANSK.

ACUHORN SECCO145

THE FIRST CONTACT WITH ACUHORN SECCO145 HORNS EVOKES AN INSTINCTIVE FEELING THAT THE MUSIC SHOULD SOUND EXACTLY IN THIS VERY WAY. THESE LOUDSPEAKERS ATTRACT A LISTENER WITH THEIR UNIFORM TONAL EQUILIBRIUM WITH A SUITABLE SPEED OF THE TRANSMISSION, MAKING MUSIC NATURAL AND DIRECT.

ACUHORN SECCO145 IS A HORN LOUDSPEAKER WITH A SINGLE FULL RANGE DRIVER THAT WORKS IN THE FULL SCOPE OF FREQUENCIES. THE HORN OFFERS A COMPLETELY DIFFERENT LISTENING EXPERIENCE WHEN COMPARED WITH ALL CONVENTIONAL MULTI DRIVE UNITS. ONE DRIVER MEANS A LACK OF ELECTRONIC CROSSOVER FILTERS AND TONAL DISTORTIONS. WHEN MID-RANGES AND HIGH FREQUENCIES COME OUT OF THE SAME PLACE, REPRODUCTION GETS MORE PRECISE. IT RESULTS IN EXCEPTIONALLY FOCUSED PRESENTATION OF STEREO, A PRECISE PLACEMENT OF INSTRUMENTS ON THE SOUND SCENE. ONE MAY HEAR SPACE BETWEEN INSTRUMENTS. A DRIVER'S LIGHT DIAPHRAGM WITH LARGE SURFACE GENERATES MUSIC WITH EXTREME CLARITY AND RESOLUTION GETTING DOWN TO THE TINIEST DETAIL.

SIMPLICITY IN THE AUDIO REPRODUCTION BRINGS ABOUT SUBSTANTIAL BENEFITS: THE LESS WE DO TO A SIGNAL DURING ITS JOURNEY THROUGH THE SYSTEM, THE MORE ORIGINAL SOUND IT WILL PRESENT. WITH SUCH A PURIST APPROACH TO THE AUDIO PATH THE ISSUE OF AN APPLICATION OF AN INTERNAL CABLE BECOMES A FACTOR EXTREMELY INFLUENCING THE CHARACTER OF SOUND. THAT IS WHY WE USE CABLES OF A FAMOUS AUDIO COMPANY, SILTECH G5 SERIES. ACUHORN SECCO145 HORNS ARE SO SENSITIVE THAT ANY CHANGE IN THE AUDIO PATH IS CLEARLY HEARD.

ACUHORN GRAND BIANCORE155

WHEN ALL THE EXCITEMENT OF THE WORLD BECOMES QUIET IN THE EVENING AND WE SIT DOWN COMFORTABLY BEFORE OUR FAVOURITE PERFORMERS, WHEN ACUHORN GRAND BIANCORE155 LOUDSPEAKERS LEAD US INSIDE THE CONCERTO, THERE IS ONLY MUSIC AND GRAND EXPANSE LEFT. THE LOUDSPEAKERS PRECISELY REPRODUCE THE SOUND STAGE AND PRESENT IT WITH A TRUE FLOURISH. FROM THE FIRST MOMENT THE LISTENER HAS AN IMPRESSION OF UNUSUAL CLARITY OF SOUNDS. NOW MUSIC IS REPRODUCED IN THE MANNER I HAVE ALWAYS DREAMT OF.

ACUHORN GRAND BIANCORE155 ARE HORN LOUDSPEAKERS, DIPOLE WITH TWO FULLRANGE DRIVERS WORKING IN THE WHOLE RANGE OF FREQUENCIES. BUILDING OF THE SOUND STAGE IS PHENOMENAL, THERE IS COHERENCE OF THE WHOLE ACOUSTIC BAND, NATURAL CREATION OF THE STAGE IN FRONT OF AND BEHIND THE SPEAKERS, MODEL NEUTRALITY AND VIVIDNESS OF SOUND. IT WAS POSSIBLE TO APPLY THOSE FEATURES OF A DIPOLE CONSTRUCTION IN A HORN LOUDSPEAKER THANKS TO THE PRECISE MATCHING OF A HORN WITH A DRIVER. WE OBTAIN A WALL OF SOUND FROM A LARGE AREA OF EMISSION LIKE IN ELECTROSTATIC LOUDSPEAKERS, PLUS THE RANGE OF DYNAMICS LIKE IN THE DUO OF A PAPER SPEAKER DRIVING A HORN. LIGHT DIAPHRAGMS REACT TO THE SLIGHTEST CHANGES AND TRANSFER MUSIC WITH UNUSUAL RESOLUTION AND DYNAMICS. BASED ON A CONSTRUCTION (SHAPE) OF A HORN THE ANALOGUE MATCHING OF THE DIVISION OF FREQUENCIES ELIMINATED SWITCHES AND FILTERS, THUS DEPRIVING THE LOUDSPEAKERS OF TONAL DISTORTIONS AND SOUND DEGRADATION. ADDITIONALLY THE APPLICATION OF A SPECIAL INTERNAL WIRING SYSTEM AND BINDING POSTS ALLOWED TO MAXIMISE THE PURITY OF A SIGNAL PATH. SPLENDID TESLA DRIVER 20CM FEATURING THE SMALLEST RATIO OF A MOVING MASS TO THE SURFACE AREA OF A DIAPHRAGM CREATES AN UNCOMPROMISING APPROACH TO THE SOUND REPRODUCTION.

THE HORN CONSTRUCTION AS A DIPOLE IN A FULL ACOUSTIC RANGE WAS APPLIED FOR THE FIRST TIME EVER BY ACUHORN MANUFACTURE. NOTWITHSTANDING THEIR SUBSTANTIAL SIZE, ACUHORN GRAND BIANCORE155 HORN LOUDSPEAKERS ARE SLIM, ELEGANT AND MODERN IN DESIGN, THEY OFFER AN ENCOUNTER WITH A UNIQUE OBJECT, PROVIDE UNFORGETTABLE EXPERIENCE WHILE TURNING THE LISTENING ROOM INTO THE BEST WORLD CONCERT HALLS. THE WOODEN ACOUSTIC HORNS ARE FINISHED WITH TRADITIONAL BEE WAXES, NATURAL HIGH QUALITY VENEERS EXPLORING DEEP COLOURS OF WOOD ADJUSTED TO AN INDIVIDUAL INTERIOR DESIGN.



Acu Horn series

HORN'S QUALITIES

ACUHOORN HORNS GIVE MOST PLEASURE WHEN YOU LISTEN ON THEM TO YOUR FAVOURITE COLLECTION OF VINYL RECORDS. A TURNTABLE IS A CERTAIN CHALLENGE, IT REQUIRES TAKING DELICATE CARE OF EACH DETAIL BEFORE SWITCHING IT ON. THIS SPINNING PLATE MEANS ALSO ENDEAVOURS TO REDUCE VIBRATIONS AND INCREASE STABILITY OF REVOLUTIONS. THE AMOUNT OF INFORMATION RECORDED ON A VINYL RECORD IS WORTH ALL THAT EFFORT SINCE IT GIVES MUSIC A PROPER, COMPLETE FORM. THROUGH A CONTACT WITH A GRAMOPHONE RECORD YOU SEARCH FOR EVER BETTER METHOD OF REPRODUCING MUSIC. WHILE LOOKING FOR A BETTER SOUND YOU WILL FIND AN INEXHAUSTIBLE SOURCE OF IMPRESSIONS, EMOTIONS AND FEELINGS, AN INCANDESCENT TUBE AND A WOODEN ACOUSTIC HORN.

THE WOODEN ACOUSTIC HORN REQUIRES A SPECIAL DRIVER. THE SELECTION OF A DRIVER AND A CONTOUR OF THE HORN MUST BE BOTH CLOSELY RELATED. IT IS A SIMULTANEOUS CHOICE. JUST LIKE WITH A SCULPTOR WHO SELECTS STONE KNOWING WHAT HE WANTS TO BRING OUT, WHAT THE ULTIMATE RESULT IS TO BE LIKE. IT IS SIMILAR WITH A HORN CONSTRUCTION WHICH IS AN ACOUSTIC INSTRUMENT BEING A WHOLE. AND A REPLACEMENT OF A DRIVER IS POSSIBLE TO A CERTAIN EXTENT ONLY. JUST LIKE WITH A REPLACEMENT OF STRINGS IN A VIOLIN - YOU CANNOT EXCHANGE THEM FOR CELLO STRINGS. THE WHOLE IS AS UNIQUE AND TRANSIENT, JUST AS WITH AN EMPLOYMENT OF A VACUUM TUBE - IT PLAYS, CHANGING ITSELF, FOR 10000 HRS AND WHEN YOU REPLACE IT WITH ANOTHER TUBE IT WILL STILL PLAY DIFFERENTLY. EACH TIME WHEN WE PUT A GRAMOPHONE RECORD ON A PLATTER A NEEDLE WILL WANDER ALONG A GROOVE IN A UNIQUE WAY, SIMILARLY AS AFTER REPLACING THE SAME CARTRIDGE MODEL WITH A NEW SPECIMEN. A HORN IS ASSOCIATED WITH LOW FREQUENCIES THAT ARE REALLY VERY GOOD. ADJUSTING A HORN IN A MIDRANGE IS A UNIQUE PHENOMENON STILL. IT MEANS THE DIFFERENCE IN TONE OF VARIOUS VIOLINS, A TYPE OF WOOD, GLUE, VARNISH, PROFILE... DRIVER'S INDEPENDENT EXISTENCE STARTS MORE OR LESS ABOVE THE MIDDLE OF THE BANDWIDTH. ITS PURITY, TIMBRE, SWIFTESS OF REACTION, DELICATE REPRODUCTION OF ALL CHANGES, MICRODETAILS CONTAINED IN A RECORDING BUILD UP THE ATMOSPHERE OF CONCERT HALLS, AIR AMONG INSTRUMENTS, THREE-DIMENSIONAL SPACE. IT IS A SUBSTANTIAL DUTY OF A PARTNER IN SUCH A PHENOMENAL HAPPENING AS A MEETING OF THE COUPLE A HORN AND A FULL RANGE SPEAKER.

FOR SUCH A PRESENTATION OF REPRODUCTION AN APPROPRIATE AMPLIFIER IS REQUIRED. THOSE REQUIREMENTS ARE SATISFIED BEST BY A SINGLE-ENDED TUBE AMPLIFIER. 1 WATT OF TRIODE IN PURE CLASS A IS AN UNATTAINABLE MODEL IN AUDIO WORLD. AND THIS POWER RANGE IS ENOUGH FOR A HORN TO LISTEN WITH A "LIVE" VOLUME IN A 30-METER ROOM. AMP'S DISTORTIONS ARE REALLY LITTLE. A HORN IS AN ACOUSTIC TRANSFORMER ADJUSTING ENERGY OF A DIAPHRAGM TO SURROUNDINGS OF A HEARING ROOM. AN UNBROKEN SIGNAL, WITHOUT GOING THROUGH A SYSTEM OF INDUCTION COILS, CAPACITORS AND RESISTORS, IS UNTOUCHED BY ALL PROBLEMS THAT BURDEN AN AMPLIFIER.

INCLUDING ALL THAT A CONCERT CONTAINS

IN AN AUDIO SYSTEM IT IS CRUCIAL TO SELECT EACH ELEMENT PROPERLY AND ESPECIALLY TO TUNE UP AN AMPLIFIER-LOUDSPEAKERS PAIR. ONE AFFECTS THE OTHER IN A MANNER THAT IS CRUCIAL FOR THE TOTAL ULTIMATE RESULT. FOR HORNS, IT IS COUPLING WITH AN ELECTRON TUBE. HORNS AND TUBES HAVE MUCH IN COMMON INDEED. THE PRINCIPLE OF A TUBE OPERATION CONSISTS IN WELL-PROPORTIONED DOSING OF ELECTRONS IN RESPONSE TO THE SLIGHTEST CHANGES IN VOLTAGE VOLUME. THIS PHENOMENON CAN BE COMPARED TO A SEASIDE BEACH.

SAND GRAINS, AS ELECTRONS, RESPOND TO THE TINIEST GUSTS OF WIND OR SPRINKLE MILLIONS OF GRAINS DURING A GALE. IN COMPARISON WITH TRANSISTORS THAT PASS A SIGNAL THROUGH A GATE A TUBE SEEMS TO BE A TOTALLY UNCONSTRAINED GIANT OF INFORMATION. THE PRINCIPLE OF AN OPERATION OF A TRANSISTOR MAY BE COMPARED WITH SAND SIFTING THROUGH A BOTTLENECK OF AN HOURGLASS. IT RESULTS IN SOUND SUBSTANTIALLY WASHED OF NUMEROUS NUANCES THAT ARE PLENTIFUL AND COMMON IN A TUBE AS A RULE. THAT IS WHY BIG TUBES WITH BIGGER GRIDS-BEACHES PERFORM BETTER THAN THOSE WITH SMALLER ONES.

THE SIMILAR PRINCIPLE APPLIES TO FULL RANGE DRIVERS THAT, AS A RULE, DUE TO THEIR SURFACE AREA, REPRODUCE ALL DETAILS IN RECORDINGS. A PRECISE AND LIGHT PAPER DRIVER TRANSMITS SOFT SIGNALS AMPLIFIED BY AN ACOUSTIC HORN, JUST LIKE A TUBE AMPLIFIES ELECTRONS. THIS STRENGTHENING OF ACOUSTIC ENERGY TAKES PLACE SIMULTANEOUSLY THROUGHOUT ALL THE BANDWIDTH TO WHICH A HORN IS TUNED IN. AND SPECIFICALLY THERE IS AN IMMEDIATE TRANSFER OF LOW FREQUENCIES WITHOUT A NEED TO PUMP AIR THROUGH DRIVERS WITH A MAXIMISED CONE TRAVEL.

SIMILAR IS THE SITUATION WITH A SOURCE OF SIGNAL. A TUBE MUST HAVE SOMETHING TO AMPLIFY. THE BEST TRANSFORMATION OF THE MOST DELICATE SIGNALS IS STILL PROVIDED BY A VINYL LP. THE AMOUNT OF INFORMATION IS SO ABUNDANT THAT MATHEMATICALLY SPEAKING IT SURPASSES BY VERY VERY FAR A SIGNAL OF 16 BIT 44 KHZ. A TUBE AND A HORN ARE ABLE TO STRENGTHEN AND TRANSFORM INTO ACOUSTIC ENERGY NOT ONLY VOCALS AND INSTRUMENTS BUT ALSO AIR FREELY VIBRATING IN A HEARING ROOM, PLUS LOCK-STOCK-AND BARREL OF SIDE EVENTS REGISTERED IN A CONCERT HALL.

ACUHORN GRAND BIANCORE 1 55

TECHNICAL SPECIFICATIONS:
TYPE A WOODEN ACOUSTIC DIPOL HORN
DRIVER 2X TESLA ŠR200
IMPEDANCE 4 OHM
SENSITIVITY 99 DB
RECOMMENDED AMPLIFIER POWER 3-30W
INTERNAL SILVER CABLE SILTECH G5 SERIES
TERMINAL SIGNATURE GOLD WBT
WEIGHT 45 KG PIECE
DIMENSIONS W 21 X D 60 X H 1 55 CM

ACUHORN SECCO 1 45

TECHNICAL SPECIFICATIONS:
TYPE A WOODEN ACOUSTIC HORN
DRIVER TESLA ŠR200
IMPEDANCE 8 OHM
SENSITIVITY 96 DB
RECOMMENDED AMPLIFIER POWER 3-18W
INTERNAL SILVER CABLE SILTECH G5 SERIES
TERMINAL SIGNATURE GOLD WBT
WEIGHT 20 KG PIECE
DIMENSIONS W 21 X D 30 X H 1 45 CM

ACUHORN ROSSO SUPERIORE 1 75

TECHNICAL SPECIFICATIONS:
TYPE A WOODEN ACOUSTIC DIPOL HORN
DRIVER 2X TESLA ŠR200
IMPEDANCE 4 OHM
SENSITIVITY 97 DB
RECOMMENDED AMPLIFIER POWER 3-30W
INTERNAL SILVER CABLE SILTECH G5 SERIES
TERMINAL SIGNATURE GOLD WBT
WEIGHT 30 KG PIECE
DIMENSIONS W 21 X D 40 X H 1 75 CM

ACUHORN NERO 1 25

TECHNICAL SPECIFICATIONS:
TYPE A WOODEN ACOUSTIC HORN
DRIVER TESLA ŠR200
IMPEDANCE 8 OHM
SENSITIVITY 94 DB
RECOMMENDED AMPLIFIER POWER 3-18W
INTERNAL SILVER CABLE SILTECH G5 SERIES
TERMINAL SIGNATURE GOLD WBT
WEIGHT 25 KG PIECE
DIMENSIONS W 21 X D 50 X H 1 25 CM

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