

Item-#: Pedalpauke Modell "Berliner Replik"

Detailed information can be found at www.lefima.de



The Berlin Original Replica timpani follow the Berlin timpani manufacture of the 1950's. With regards to technology and sound they are a significant further development. The new hand-hammered copper bowls have a warm and much fuller sound with great volume. Especially for these timpani type, we designed a ratchet clutch pedal with fine gears which two to three times as fine as conventional systems and thus gives substantially more precision accurately tuning your note.

These timpani are characterized by a gigantic sound volume, rich, full-bodied resonant tone, precise attack, romantic literature (e.g. Mahler, Bruckner, R. Strauss, etc), classical literature, large stages, large symphonic orchestras; heavy duty construction. The production of a world class concert timpani requires the manual skill and a lot of know how that we gained in over 70 years of manufacturing. For us making ti...

Design features

Handhammered copper bowl, Berlin ratchet clutch pedal with fine gear, 4 chromed levelling screws, precision tuning gauge (adjustable letters with tone names, solfege on demand), counterhoops made from angle steel lacquered in rack colour, finetuner with silent acting pistol grip, octopus-tuning key, playing height 85 cm (33.5½), colour AP-red; other playing heights and colours on demand

Item-#	Shell/Bowl (Inch)	Shell/Bowl (cm)	Tonerange	Heads	Tension Screws
KP-BOR-0021-000	21"	54,0	e - c	siehe "Ausstattung" // see "equipment"	8
KP-BOR-0022-000	22"	57,0	d - bb	siehe "Ausstattung" // see "equipment"	8
KP-BOR-0023-000	23"	59,5	c - a	siehe "Ausstattung" // see "equipment"	8
KP-BOR-0025-000	25"	64,0	B - g	siehe "Ausstattung" // see "equipment"	8
KP-BOR-0026-000	26"	66,5	A - f#	siehe "Ausstattung" // see "equipment"	8
KP-BOR-0028-000	28"	72,0	F - e	siehe "Ausstattung" // see "equipment"	8
KP-BOR-0029-000	29"	74,0	E - c	siehe "Ausstattung" // see "equipment"	8

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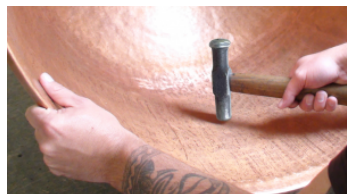
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KP-BOR-0031-000	31"	78,5	D - BB	siehe "Ausstattung" // see "equipment"	8
KP-BOR-0032-000	32"	80,5	C - A	siehe "Ausstattung" // see "equipment"	8
KP-BOR-0033-000	33"	81,5	A - G	siehe "Ausstattung" // see "equipment"	8
KP-BOR-0035-000	35"	89,0	G - F	siehe "Ausstattung" // see "equipment"	8

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Product Features



Hand forged Copper Bowls

In addition to the choice of finest raw materials a high knowledge of the numerous processing techniques is necessary to guarantee...



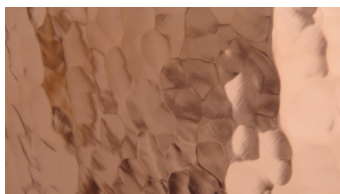
Precision Tuning Gauge

Well visible movable tone letters are mounted on a non-dazzling rail.



Berlin AP-Pedal (ratchet clutch)

The AP-pedal is absolutely reliable and keeps tension precisely. The parts of the mechanism are made from the best steel which is ...



Hand Hammered Bowl

The sound finally is determined by the knowledge of hammering. The manufacture of a concert timpani bowl is an act of creatio...



The Wedding of Bowl and Rack

With meticulous precision, the shape of the frame's suspension ring is worked. It must correspond exactly to the bowl lip in order...



Fine Tuner

Fine Tuner HandleThe fine tuner handle fits comfortably in the hand and has a hundred percent silently acti...



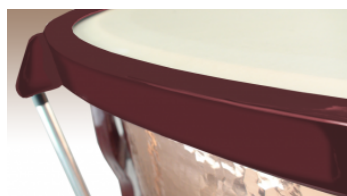
Ergonomic Release Lever

Its' curved shape follows the form of the shoe and facilitates a comfortable quick and easy pedal release in any position. No matt...



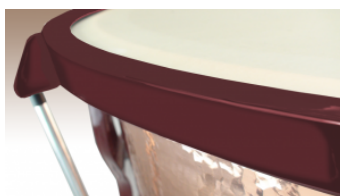
Pedal Return Assistance

AEHNELT timpani have a sensitively balanced system of levers. This provides pedal action with "natural" tangible resistance and in...



Steel Counterhoop

The vertical side extremely reinforces the rim. This leads to a maximum of firmness and so guarantees a proper tuning at any place...



Counterhoops in Rack Colour

Matching with the colour of the timpani rack, the counterhoop can be coated in the same hue.

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Foot Rest

Especially when playing while sitting, the foot rest that is integrated into the timpani base is a useful feature. It helps to tak...



Levelling Screws

Four levelling screws are integrated into the base for compensating floor bumps up to 5 centimeters (2 inches).



Tension Screws with Screw-in Help

All tension screws have a small cone at their thread end. Also when the nut is shifted a little bit, the screws can be turned into...



Tension Screw Insulator

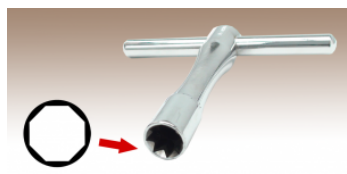
The bushes center the screws on the one hand, whereby they can be turned very easily. On the other hand they insulate the screws f...



Full Service History

Similar to the service book of an automobile a properly completed service booklet sheds light on regularly conducted inspections a...

Equipment



Octopus Tuning Key

Because of its octagon this key guarantees quick placement on the screws without „searching“.



Renaissance

Renaissance Heads are similar to natural skin heads with regards to sound and appearance. They feature a warm, dark, focused ...



Kalf Calfskin Head

The sound of natural skins is unmatched! Tucking a natural skin requires experience and skill. We supply wrinkle-free ...



Kalf Goatskin Head

The sound of natural skins is unmatched! In contrary to calfskin heads goatskins sound softer, shorter, less...

Additional Equipment

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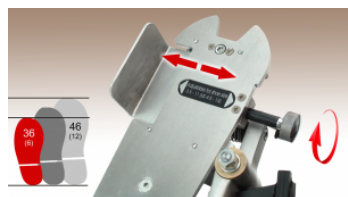
Automatic Castors

For playing, the timpani can be gently let down to the floor to use the stage as additional resonance body. With the au...



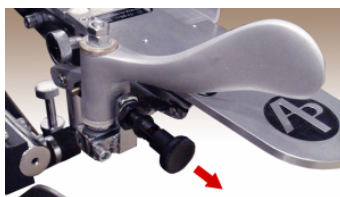
Semi-automatic Castors

In case of transport the totally fixable castors move into position after a short lift of the instrument. For transporting the tim...



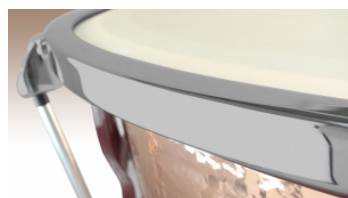
Adjustable Pedal Foot Plate

Another feature that contributes to the comfortable operation of this model timpani.



Pedal Stop

The pedal mechanism can be easily blocked. Thus, the head tension cannot be accidentally changed on transport. A very useful featu...



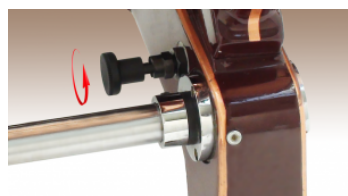
Matt-chromed Counterhoops

The manufacturing procedure of matt-chromed counterhoops is quite complex. Here, the advantages of a non-dazzling surface are comb...



High-gloss Chromed Counterhoops

These counterhoops are hand-polished, then preserved in a complex electroplating with an lining of copper, an additional nickel la...



Choosable Head Mode

Depending on the head type the entire travel of pedal and gauge can be used. This means that even after a change from natural...



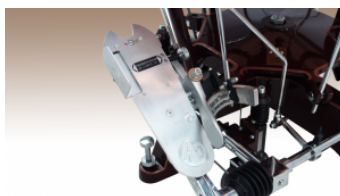
Berlin AP-Pedal (infinitely)

The AP-pedal is absolutely reliable and keeps tension precisely. The parts of the mechanism are made from the best steel which is ...



Dresden AP-Pedal (infinitely)

The AP-pedal is absolutely reliable and keeps tension precisely. The parts of the mechanism are made from the best steel which is ...



Dresden AP-Pedal (ratchet clutch)

The AP-pedal is absolutely reliable and keeps tension precisely. The parts of the mechanism are made from the best steel which is ...

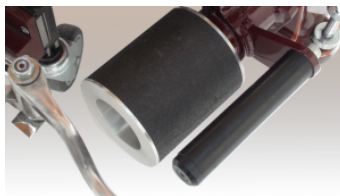
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Foot Tuner

You can easily make fine-tuning adjustments. For example, while playing a fff to pp decrescendo-roll the intonation can be correct...



Adjustable Comfortable Foot Rest

Especially with the foot-tuner and its movable roll, the foot rest is a very helpful feature. This foot rest can be adjusted...



Pedal-S.A.M.

This maintenance-free servo hydraulics neutralizes the force on the mechanism caused by head tension and support the musician deci...



Fine Tuner S.A.M.

This maintenance-free servo hydraulics neutralizes the force on the mechanism caused by head tension. The fine tuner can be t...



Large Finetuner Grip

The handle fits comfortably in the hand. Due to its size, the hand's moment of force is transmitted well on the mechanics. T...



Fine Tuner Diversion

At all Dresden pedal systems the finetuner is on the opposite side of the timpani. This is very unpractical because the timpanist ...



Head Locks

The locking of four tension screws prevent head slippage during transport. The screws remain movable.



Tuning Key Holster

A tuning key holster on every timpani stores your tuning key quickly and quietly.



Head Change Aid

In case of a head change, a spring neutralizes the weight of spider, tension screws and counterhoop. Nothing has to be put underne...

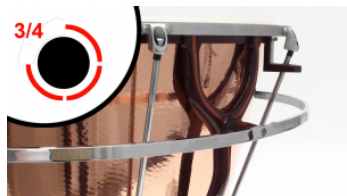


1/2 Protective / Carrying Ring

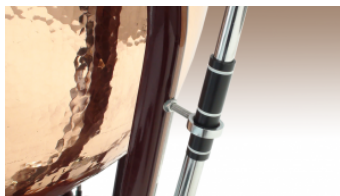
The bowl is the heart of a timpani. In case of an accident, it can normally be repaired without problems. If however the rack...

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3/4 Protective / Carrying Ring
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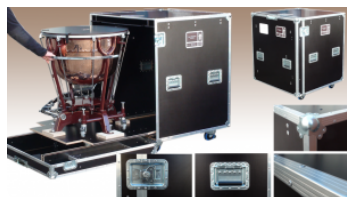


Finetuner-Mark
A visible mark shows the possible travel of the thread.



Colour Examples
Some of the most common rack colours.

Accessories



LogiCase with sledge
For orchestra staff which is used to the retractable bottom mechanism (slide). The extremely sturdy design features all...



LogiCase with Ramp
By only one person, the trunk can be loaded over a short ramp that is integrated into the door and the timpani is fixed with a fli...



Single-use Trunk
This case is the simple variant of a transport case and is only used to protect a timpani on its' way to the customer. (fork-liftab...



Pull-Over Cover
It encloses the complete instrument and protects the whole mechanism and the pedal. Made from hard-wearing waterproof material and...



Snap-on Head Protector
Simple to put on, keeps position with a magnetic device, without the use of straps or locks.

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The production of a world class concert timpani requires the manual skill and a lot of know how that we gained in over 70 years of manufacturing. For us making timpani is tradition.

The manufacture of the basic rak demands the highest precision

The whole rack and especially the bowl support have to be tension-free and round so that the timpani will not contort and the bowl won't buckle. These are crucial prerequisites for brilliant sound and good intonation.

Forging the bowl is a science

Besides the careful selection of the finest materials, a knowledge of the numerous different manufacturing techniques is necessary to obtain an equal thickness of the metal and to guarantee the roundness of the bowl. Over the decades we permanently optimized the dimensions of the bowls with regard to their shape. This and a special manufacturing technique create a warm and very voluminous sound. In addition each bowl of an AEHNELT Concert Timpani is hand hammered and compressed. One of the most difficult steps is the meticulous adaption of the bowl to the basic rack.

AEHNELT Timpani are not mass produced!

All its 325 single parts are produced by hand with great thoroughness and attention to detail. The whole ball bearing mechanism is maintenance-free and manufactured from best tempered steel which is in addition hard chromed. The slide bearing grips the center bolt and is self-lubricating.

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