Today's drummer is faced with the challenge of having to respond to a variety of musical styles. As an artist, the performer must constantly be working to create something new and different. As a drummer, you must have your own concept of what makes a good snare drum. At Artwood, we believe our own line of drums represents the kind of snare drum that can move the kind of music you play. We constantly test and experiment, regarding drum designs and characteristics they want in a drum. Our new snare drums live up to the criteria of our work with these companies. Be sure you can use through this catalog. You will see how it is possible drum selection can play a vital role in responding to your drumming needs.
SIMON PHILLIPS

SOLID MAPLE

Model No. PS2246G
Shell: 6 1/2” Maple
Shell Finish: Antique Brown - Lacquer Finish
Shell Construction: 3.8mm Solid Maple
Strainer: Cam-tension
Snare: Steel Straps
Strap: Steel
Snare Source: Steel Sensative
 Heads: W/K Coated/WK Clear
 Hardware Finish: Gold

COPPER SHELL

Copper has many unique and numberous qualities. As a shell material, its tone is somewhere between Wood and Steel. Copper drums produce the crack and drive of a metal drum along with the more sensitive qualities of wood. The best of both worlds.

CAM-LEVER STRAINER

In the on position you want your drum set anchored like a rock but this can easily be changed by a simple movement of the lever. The pedal mechanism follows the pedal with the shell moving with it. The result is a heavy and smooth movement. It does not change the position of the drum in any way. The pedal mechanism is a 3-speed switcher. You can select the speed with the lever in both the closed and open position. The pedal mechanism is very quiet, providing smooth tension on both the snare and bass drum. This allows the drum set to be played with no sound or noise from the snare drum.

FREEDOM LUG

The lugs have been designed to be used in any position, the drum, the cardboard box, or the cardboard carton. The lugs are made of a durable plastic material that is resistant to rust and will not break easily. They are easy to install and can be moved to any position without damage to the drum set.

BILL BRUFORD

One of Rock's most influential players, Bill Bruford has been a part of the band for over 20 years. He is known for his technical and creative playing. Bill has used our drums in all of his musical projects, from jazz to rock. He is a true musician and our drums are designed to meet his demanding standards.
As one of the primary innovators in the development of the modern jazz snare drum, Elvin Jones has been a major influence on the lives of musicians around the world. Using Tama's Bell-Brass and Bird's Eye Maple snare drums, he demonstrates the sound and versatility of these instruments.

**PRO-CUSTOM BELL-BRASS SNARE DRUM**

*Model No.: FZ326G*

- **Shell:** 8½” Bell-Brass, 3mm Thickness
- **Shell Finish:** Clear Finish
- **Lugs:** Freedom
- **Strainer:** Cam-Lever
- **Hoops:** Brass Mighty Hoop
- **Snare Source:** Steel Sensitive
- ** Heads:** W4 Coated/W4 Clear
- **Hardware Finish:** Gold

**PRO-CUSTOM BIRD'S EYE MAPLE SNARE DRUM**

*Model No.: PB3246G*

- **Shell:** 8½” Bird’s Eye Maple, Lacquer Finish
- **Shell Construction:** From Thickness: ½ ply
- **Lugs:** Freedom
- **Strainer:** Cam-Lever
- **Hoops:** Bell-brass Hoops
- **Snare Source:** Steel Sensitive
- ** Heads:** W4 Coated/W4 Clear
- **Hardware Finish:** Gold

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**BELL-BRASS SHELL**

Our research has shown materials with a low fundamental frequency are the ones most usable for achieving the sounds desired for a snare drum. Tama's Bell-Brass drums give the lowest fundamental frequency of similarly available metal drums. This Bass-Brass is 3½” thick and is carefully machined from a single block of metal. Then, it is polished and lacquered for finish protection and enhanced appearance. This drum is equipped with the latest hardware technology as well. The Tama Bell-Brass snare is the epitome of craftsmanship, durability and sound capabilities, a true work of art.

**BIRDS EYE MAPLE SHELL**

Combining the natural resonance of maple with a naturally low resonance content, the Bird’s Eye Maple shell is a perfect combination of snare drum sounds. The resonance is adjusted by adding or removing maple, giving the drums a variety of sounds. The Bird’s Eye Maple shell is suitable for the most demanding players and the most demanding players.

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**BRASS MIGHTY HOOP**

Tama’s Brass Mighty Hoop is a 3½” press-braced hoop, a combination of material and dimensions that deliver a greater emphasis on high frequencies. This gives the performance the bright and resonant sound that Tama is famous for. The Brock Hoop is also available in Brass-Brass finish.

**BELL-BRASS HOOP**

Bell-Brass is not only a great resonating material for drums but also a hoop-brass resonating material. It is often used in drummers' characteristic tone. The 3½” press-braced hoops on the Tama Bell-Brass Snare drums offer a versatile choice for expanding the potential of this already “true” material.
Dave Holland and Judas Priest open up about the dynamics of their music. Holland plays a Rosewood snare drum, while Priest wears a denim shirt. The Rosewood shell produces a long sound with little distortion. The Pro-Custom Solid Maple snare drum is featured next, with Craig Krampf discussing its characteristics.

**Rosewood Shell**
- Produces a long sound with little distortion.
- Features a long grain that enhances the drum's sound.

**Roller Action Strainer**
- Ensures a smooth, positive action when playing.
- Enhanced durability and performance.

**PATOZO Lug**
- Ensures the drum head remains tight and secure.
- Designed for durability and performance.

**Specifications**
- **Model No. PR313BG**
  - Shell: 8” Rosewood
  - Finish: Natural Glass
  - Construction: 10ply 6.5mm

- **Model No. PS213SC**
  - Shell: 5” Maple
  - Finish: Antique Brown
  - Construction: 3.5mm 7ply Solid Maple

*We take a shell of solid maple, carve it to the traditional 6-inch depth and then fit it with a set of quality hardware. This produces a drum that sounds the manufacturer's need for a superior instrument that can be recorded with care.*
SHELL MANUFACTURING

One of the fundamental aspects of producing a quality shell is shell construction. We consider our standards and processes to be the most exacting in the industry, always constantly looking for new designs, methods, and even materials.

The most important point in body construction centers around crafting a perfectly round shell. At Tama, we start by cutting the shell material at a 45-degree angle at both ends and then place it in a molding machine. The shell is then fitted together, or "resized," as shown in Diagram A. The tension on the bending of the shell material now causes it to "shrink" in the horizontal direction and bottom of the mold. One ton of downward pressure is then applied to keep the shell material in the mold and channel its spring-like energy in an outward direction to conform to the mold's shape of perfect roundness, as shown in Diagram B.

Another ply is then placed inside. Pressure is then applied from the mold to firmly glue and join the new piece to the original. This process is repeated until the number of plies needed for a particular shell style is reached.

The second most important point of the drum's construction is the formation of the shell's bearing edge. To make sure the snare makes proper contact with the snare side head, two small, gently-curved impressions are cut out on the snare side and butt side of the shell to form the snare bed. Each area of our snare bed is between 100-120 degrees—depending on the shell material—of the shell circumference and about 2 mm at its deepest point. These areas are illustrated in diagram C. The main feature of Tama's snare bed is that its path changes as it goes through the snare bed area. This slope at the sound edge from the snare side to the butt side is gradual, instead of a perfectly round shaped path you have one that appears almost as a river as illustrated in Diagram D. This slightly larger diameter doesn't affect the snare bed's angle or the way the snare head rests. In addition, this results in improved snare wire/snares head contact yielding greater sensitivity.

Compare the shell edge of other drum companies (Diagram E) with Tama's original design (Diagram F). In Diagram F, the line from O to P shows the drum head's "skin" at the deepest point of the snare bed. This line from O to Q shows the "flange" at the left side of the edge. If you could press the rim of the head at both points, evenly, the drum head would be seen as indicated in this diagram.

In reality, the rim of the head won't be pulled down lower than point Q, because the hoop is not bent.

Therefore, the tension at point O-P-Q will be looser than at point O-Q-P. To compensate, the drum head must be adjusted to the hoop. This is also what we refer to as "tuning," as shown in Diagram F. For example, point P is located further out than point O-P. This makes the length of the line from Q to P longer. As a result, point O and Q will be at the same point. In this way, the result of Tama's shell edge design is more even head tuning.

CAM-LEVER STRAINER & BUTT

The most common snare today is controlled by a switch with a forward-back motion. When a Cam-lever style mechanism is incorporated, switching becomes quick, easy and noiseless. The tension adjustment knob is designed to be slightly larger than average and has been located for easy access.

The snare strap is held securely in place by a V-shaped clip mount assembly eliminating snare slackness during playing. Snare can be replaced using nothing more than your drum key.

ROLLER ACTION STRAINER

The lower part of the strainer consists of a roller that moves for easy, smooth switching. This mechanism is designed to convert the switches side-to-side motion to the up-and-down motion of the snare strap holder. Tama's Roller Action Strainer has been engineered for years of trouble-free operation.

PAT30 LUG

The PAT30 lug is a new mast tensioning system designed to accommodate simultaneous top and bottom head tuning from the bottom side of the drum.

By using a specially designed three-way tuning key, the following methods are possible:
1. Tuning the batter head from the top.
2. Tuning the snare (bottom) head from the top.
3. Tuning the snare (bottom) head and the batter head simultaneously from the top.
4. Tuning the snare (bottom) head from the bottom.

The lug is attached to the snare shell using a minimum of surface space. Eliminating interference with the body's vibration response. A rubber washer placed between the lug and the drum also prevents the shell from picking up any vibrations transmitted through the lug.

FREEDOM LUG

Another Tama lug design to minimize surface contact with the drum shell. The Freedom Lug helps to prevent surface damage and improves the surface tension cylinders thus promoting tuning stability.

As the diagram illustrates, a small spring locks the tension rod as it is turned. This spring is noiseless as it slowly keeps your drum playing the way you set it for long periods of the strongest playing.

TWIN-WAY LUG

The traditional look of the Twin-Way Lug evolves memories of the past, but its function is based on Tama's technology of the present. Like the PAT 30, this lug is designed so that the tension rod is held directly by the column itself. Nylon Rod Locks located on the side of the column helps to prevent snare drum detuning.

HOOPS

Steel Sensitive Snappy Snares

Tama makes four different hoops, each designed to enhance specific qualities in different snares.

- The Mighty Hoop is a 2.3mm thick, steel triple flanged hoop with a strong attack, characteristics.
- The Brass Hoop is the same—specifications as above but even brighter.
- The Tama Zinc Die-Cast Hoop is a splendid example of perfect roundness, complete tightness and full sound.
- Bell-Brass Hoops are sturdy and allow for a much greater range of tuning possibilities. Even when used on just the batter side, Bell-Brass is capable of generating a surprising array of sounds. A wide spectrum of tones is available even when the snare is tuned down.
ARTWOOD SERIES
SOLID MAPLE
SNARE DRUM

Drawing on years of comment and opinion from our drumming assistants, Tama has concluded that shells producing a low, even frequency are preferred. The single ply maple drum is the original tone honored wood snare drum. This warmth, extreme clarity, and extended performance in any tuning range so valued by the players of the specialties and theories have been returned and reinforced for the Artwood™ Solid Maple series—the snare drum of the '90's.

Recording engineers and studio musicians have an extra dimension to consider in snare drum sound. They're often working with digitally recorded sounds where tonalities are at a minimum and creative sound possibilities at a maximum. This is where a uniformly tuned precision snare drum is crucial. Tama's years of research in this area led to the development of a radically different idea: the eleven lug snare drum.

AW625-11 5x14
AW628-11 6x14

These two models are the culmination of all our work with solid maple wood, low mass technology, and the eleven lug tuning system.

By placing eleven lugs on the batter side and ten lugs on the snare side, incredible tuning accuracy and flexibility have been achieved. This combined with the warm maple sound—unfiltered by excessive surfaces to surface contact—has produced an instrument capable of satisfying the most demanding drummer or exacting producer.

### WHY ELEVEN LUGS?

An even number of lugs has always been the unquestioned standard. Our research into drum tuning has yielded what we believe is a better tuning technique and a better-if-at first glance somewhat odd-eleven lug configuration.

An eleven lug snare drum would be tuned by following the sequence indicated in diagram A.

1. First, tune point 1, then proceed to tune points 2 and 3 on the opposite side. This puts points 1, 2, and 3 in balance.
2. Next, tune point 4. This puts point 4, 2, and 1 in balance.
3. Tune point 5 which puts points 5, 4, and 2 in balance.

By continuing this sequence through point 11—with some minor tuning step completion—perfectly balanced tuning is achieved.

As illustrated in diagram B, a standard even multiple lug set up is tuned along a series of diagonal lines from lug to lug. This means that the highest point of head tension occurs at the center of the drum at a very small point.

With an eleven lug configuration, tuning occurs along a series of triangular patterns. The result here is that the highest point of head tension occurs at a much broader center point, as shown in diagram C. This larger center point means an increased playing area of maximum response.

The more evenly dispersed surface tension of this system yields the following benefits: better balance, no dead spots, and the ability to create a wide variety of tuning styles with just a simple lug adjustment.

### SPECIFICATIONS

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Shell</th>
<th>Number of Lug</th>
<th>Type of Lug</th>
<th>Strainer</th>
<th>Hoops</th>
<th>Snare</th>
<th>Heads</th>
<th>Finishes</th>
</tr>
</thead>
<tbody>
<tr>
<td>AW625</td>
<td>5x14 Solid Maple</td>
<td>10</td>
<td>Two-way</td>
<td>Calf-leather</td>
<td>Die-cast</td>
<td>Sensitive</td>
<td>VK Coated/VK Clear</td>
<td>AM</td>
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<tr>
<td>AW626</td>
<td>6x14 Solid Maple</td>
<td>10</td>
<td>Two-way</td>
<td>Calf-leather</td>
<td>Die-cast</td>
<td>Sensitive</td>
<td>VK Coated/VK Clear</td>
<td>AM</td>
</tr>
<tr>
<td>AW628</td>
<td>8x14 Solid Maple</td>
<td>10</td>
<td>Two-way</td>
<td>Calf-leather</td>
<td>Die-cast</td>
<td>Sensitive</td>
<td>VK Coated/VK Clear</td>
<td>AM</td>
</tr>
<tr>
<td>AW628-11</td>
<td>5x14 Solid Maple</td>
<td>11/10</td>
<td>Two-way Piccolo</td>
<td>Calf-leather</td>
<td>Steel Mighty (11/10)</td>
<td>Sensitive</td>
<td>VK Coated/VK Clear</td>
<td>AM</td>
</tr>
</tbody>
</table>
The amount of force exerted on surface of a snare drum is tremendous. The pressures of the tension rods, hardware screws and even the stand itself can compromise the sound. For this reason the shell construction has to be of the finest quality and have the strength to deal with the stress. The 8-ply maple shells used in the Tama Artwood series have just this quality and strength.

Eight sheets of maple are bonded together to create a 7mm thick shell that possesses more response and clarity than any other multi-ply drum. When the outer and inner plies are Bird's Eye Maple—an option in this series—this superb sounding drum becomes an instrument of breathtaking visual beauty. Bird's Eye Maple snare drums come standard with Die-cast Hoops and "Two-Way" lugs.

**THIRTEEN INCHES DIAMETER SHELL**

Thirteen inches is the traditional piccolo snare drum size. This diameter offers the possibility of higher pitch tunings, incredible volume and a remarkable ease of playing due to the smaller head surface. Three depths are available in this line: 3 1/2", 5", and 6 1/2".
**Artwood Series**

**Birch Snare Drum**

**AW216 6½ x 14**

AW218 8 x 14

The use of birch allows for an amazing sensitivity even at the 9" depth. Aside from their visual appeal, polyurethane finished drums are marginally brighter than their covered counterparts. These three models are available in three lustrous finishes for coordination with Tama’s Artstar or Pro-Line drums. Freedom Lugs and steel Mighty Hoops are used on these models.

**AW216D AW218D AW219D**

Also available with Die-cast Hoop.

**AW106 6½ x 14**

Covered drums offer not only extra protection but are also chosen by players desiring a slightly darker tone in their drum. Tama ensures the permanence of these qualities by roller pressing their covering sheets to the drum for a firm bond. Covered Birch snare drums also feature Power Lugs and steel Mighty Hoops.

**AW316 6½ x 14**

AW318 8 x 14

With their 14-ply, 18mm thickness, these models are the thickest wooden drum Tama makes. But sheer hardness is not the only reason for this drum. We wanted a drum made to stand up not just physically but musically to heavy hitting drummers whose forceful playing styles and resulting sound can often overwhelm a thinner drum. The use of the ultra-thick Emperor head rounds out the idea behind this drum’s design: an instrument for the drummer with power to spare. Freedom Lugs and Die-cast Hoops are utilized.

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Shell</th>
<th>Number of lugs</th>
<th>Type of lug</th>
<th>Strainer</th>
<th>Hoops</th>
<th>Finish</th>
</tr>
</thead>
<tbody>
<tr>
<td>AW216</td>
<td>6½ x 14 Heavy Birch</td>
<td>10</td>
<td>Freedom</td>
<td>Roller Action</td>
<td>Die-cast</td>
<td>Sensitive</td>
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<tr>
<td>AW218</td>
<td>8 x 14 Birch</td>
<td>10</td>
<td>Freedom</td>
<td>Roller Action</td>
<td>Steel Hoops</td>
<td>Sensitive</td>
</tr>
<tr>
<td>AW219</td>
<td>9 x 14 Birch</td>
<td>10</td>
<td>Freedom</td>
<td>Roller Action</td>
<td>Steel Hoops</td>
<td>Sensitive</td>
</tr>
<tr>
<td>AW216D</td>
<td>6½ x 14 Birch</td>
<td>10</td>
<td>Freedom</td>
<td>Roller Action</td>
<td>Die-cast</td>
<td>Sensitive</td>
</tr>
<tr>
<td>AW218D</td>
<td>8 x 14 Birch</td>
<td>10</td>
<td>Freedom</td>
<td>Roller Action</td>
<td>Steel Hoops</td>
<td>Sensitive</td>
</tr>
<tr>
<td>AW219D</td>
<td>9 x 14 Birch</td>
<td>10</td>
<td>Freedom</td>
<td>Roller Action</td>
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<td>Sensitive</td>
</tr>
<tr>
<td>AW106</td>
<td>6½ x 14 Birch</td>
<td>10</td>
<td>Power</td>
<td>Roller Action</td>
<td>Steel Hoops</td>
<td>Sensitive</td>
</tr>
<tr>
<td>AW108</td>
<td>8 x 14 Birch</td>
<td>10</td>
<td>Power</td>
<td>Roller Action</td>
<td>Steel Hoops</td>
<td>Sensitive</td>
</tr>
</tbody>
</table>
Brass is very often the preferred material for snare drums due to its ability to produce exceptionally bright and loud highs, a necessity for today’s drummer who has to cut through vast walls of sound.

PM323 3½ x 14
The PM323’s marriage of brass material with piccolo size delivers absolute, undeniable sound penetration. These elements combined with the 2.3mm Mighty Hoop makes the PM323 perfect for use as a main or auxiliary snare drum.

PM328 8 x 14
The PM328 was created for the drummer who needs the brilliance and initial attack of brass but wants to retain the full sound of an eight inch drum. The ideal drum for road or studio use and an excellent choice for the Rock drummer.

PM325 5 x 14
PM326 6½ x 14
Our standard 5” and 6½” brass snare drums. Tama’s Two-Way Lug and the Cam-Lever Strainer use as little of the shell surface as possible thereby maximizing shell resonance. The strengthening reinforced area in the center of the shell in concert with Tama’s Heavy duty hardware make these models durable, rockworthy instruments.

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Shell</th>
<th>Number of Lug</th>
<th>Type of Lug</th>
<th>Strainer</th>
<th>Hoop</th>
<th>Snare</th>
<th>Heads</th>
</tr>
</thead>
<tbody>
<tr>
<td>PM322</td>
<td>3½ x 14 Brass</td>
<td>20</td>
<td>Two-way Piccolo</td>
<td>Cam-Lever</td>
<td>Steel Mighty</td>
<td>Sensitive</td>
<td>WK Coated/WK Clear</td>
</tr>
<tr>
<td>PM325</td>
<td>5 x 14 Brass</td>
<td>10</td>
<td>Two-way</td>
<td>Cam-Lever</td>
<td>Steel Mighty</td>
<td>Sensitive</td>
<td>WK Coated/WK Clear</td>
</tr>
<tr>
<td>PM326</td>
<td>6½ x 14 Brass</td>
<td>10</td>
<td>Two-way</td>
<td>Cam-Lever</td>
<td>Steel Mighty</td>
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<tr>
<td>PM328</td>
<td>8 x 14 Brass</td>
<td>10</td>
<td>Two-way</td>
<td>Cam-Lever</td>
<td>Steel Mighty</td>
<td>Sensitive</td>
<td>WK Coated/WK Clear</td>
</tr>
</tbody>
</table>
Tama was the first company to market a commercially available bell-brass snare drum. Due to its high resonance characteristics and long sustain, bell-brass is used in the manufacture of musical instruments such as cymbals where these qualities are desired. Another very important characteristic of bell-brass is its low fundamental frequency, when milled down to 3mm thickness the result is a drum with an extraordinary clarity and power.

PM426 6½ x 14
The classic Tama Bell-Brass snare drum is enhanced by hardware improvements such as a Cam-Lever strainer and a Two-Way tuning lug, both of which feature increasing this drum's acclaimed resonance.

Both the PM425 and PM426 come with our new Bell-Brass Hoop as standard equipment. This hoop was developed for rigidity, tuning accuracy and louder, more explosive rim shots than any other snare drum rim.

PM228 8 x 14
The 8” deep PM228 snare drum produces a sound of unsurpassed power. Equipped with Two-Way pipe lugs and Cam-Lever strainers, both designed to minimize shell surface contact so that nothing gets in the way of the PM228's incredible sonic strength.

PM223 3½ x 14
PM226 6½ x 14
Tama offers four sizes in its PM steel snare series: 3½”, 5”, 6½” and 8”. Both the PM223 and the PM226 share the specifications as the PM228, while specially designed for its piccolo depth. All feature beautifully chrome plated steel shells and mounting parts.
HOOPS

BELL-BRASS
MBH4-10BS: Bell-Brass Hoop for batter side (6mm hole)
MBH4-10RS: Bell-Brass Hoop for snare side (6mm hole)
MBH4-12BS: Bell-Brass Hoop for batter side (8mm hole)
MBH4-12RS: Bell-Brass Hoop for snare side (8mm hole)

Bell-brass is an alloy combining copper and tin in an 8:2 ratio. Due to its exceptional rigidity, it's the perfect hoop material. The other important quality of bell-brass is its superior resonance which enables the percussionist to produce explosive, penetrating rim shots.

STEEL MIGHTY
MFM4186/ Steel Mighty Hoop for batter side (6mm hole)
MFM4458/ Steel Mighty Hoop for snare side (6mm hole)
MFM4908/ Steel Mighty Hoop for snare side (6mm hole, for Roller Action Strainer)

Many drummers have preferred the "low profile" of a triple flanged hoop but still needed the strength of a die-cast hoop. The development of Tama's Mighty Hoop now makes it possible to have a high strength rim with that desired triple flanged "low profile."

KEY WRENCHES
Both Tama's standard 6060 tuning key and the MKW12 3-way PAT30 key are die-cast for sturdy reliability and shaped to be easy and comfortable to handle. In addition, the PAT30 key allows the drummer to make different kinds of adjustments with just one key—no more on the job groping for screwdrivers and other tools.

SNAPPY SNARES

SNAP-305-S
MS205-S
Steel Sensitive snares, short scale, 20 strands
MS205-L
Steel Sensitive snares, long scale, 20 strands
6020
Steel snares, short scale, 20 strands
6055
Steel snares, long scale, 18 strands

EXTERNAL MUFFLER

6553
In keeping with the our standard of not compromising drum sound by burdening the shell with unnecessary hardware, Tama snare drums are made without internal mufflers. The 6553 External Muffler leaves the shell to vibrate freely while still offering fully adjustable muffling capabilities.