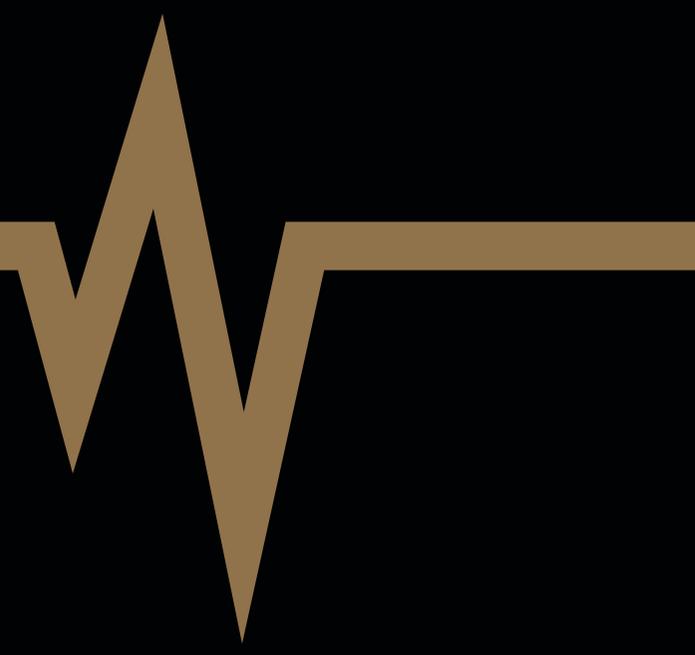


BLACK PANTHER
designLAB

PRODUCT BROCHURE



SONIC FLOW,
MASTERED TO PERFECTION



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BLACK PANTHER designLAB

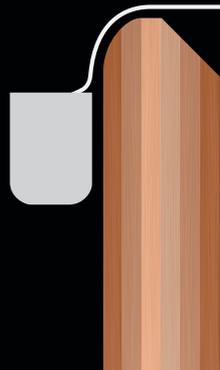
The Black Panther Design Lab continues to lead the Mapex legacy of "sound first" principals integrated into every part of drum design. Drawing from decades of engineering and innovation, these drums mark a breakthrough in the evolution of acoustic drum science by continuing to experiment with shell materials, mounting system, sonic rings, hoops and every other design appointment affecting the sound of the instrument. Guided by renowned artists, the Black Panther Design Lab abides by a Concept Hybrid approach to achieve a distinct sound within a sonic and musical landscape. Mapex leverages their expertise defying traditional limits, ensuring each drum realizes its sonic potential. This defines the essence of **Black Panther Design Lab**.



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SONICLEAR BEARING EDGE

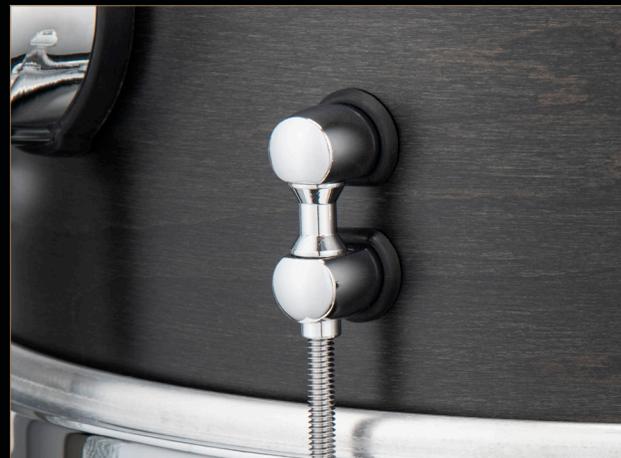
SONIClear Bearing Edge is standard on all BPDL shells, allowing the drumhead to sit flatter on the shell, making better contact.



Allows the head to sit flush promoting ease of tuning, increased shell resonance & optimal tonal clarity.

MASTER TUNE LUG

The Master Tune Lug utilizes a small body for the least amount of metal-to-wood contact. A Design Lab-exclusive pressured locking mechanism is outfitted on every lug to keep the drum in tune, show after show.



SONIC PEDESTAL FOOT

The steel leg is prevented from contacting the ground by an internal cotter pin, allowing the floor tom to "float" on the elevated "spring" of the rubber foot, eliminating vibration transfer and maximizing resonance.



CHAMBER SPECIFIC DESIGN

As the drums get larger in diameter, plies get progressively thicker, depths graduate by 1/2", bearing edges change and the SAS ring system changes.



AIR FLOW VENTING

Air flow vents are placed at the *Nodal line with the lugs, so as not to affect the resonance of the shells. Through painstaking testing, each Chamber Specific approach has lead to a formula of multiple vent holes in BPDFL series. Tom and bass drums have different combinations of vent holes.

** "Nodal" positioning is ©Noble and Cooley Drum Company*



SAS STATIC 90° FLOOR TOM LEG

The straighter the path to the floor, the more sound loss: the SAS Static 90° Floor Tom Leg resolves this issue, allowing the most possible resonance from the floor toms.



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HALO MOUNTING SYSTEM

Using a lateral, unique "under lug-line" suspension system, this groundbreaking isolation mount allows the shell the freedom to have an open, pure tone.



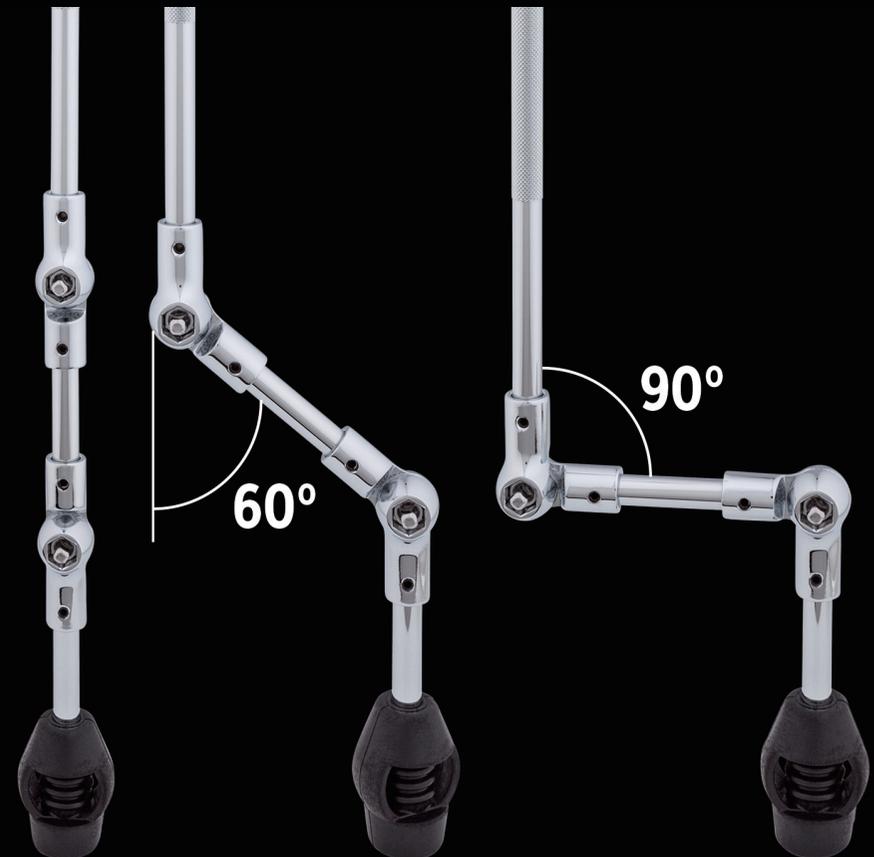
HALO MOUNTING SYSTEM SUSTAIN ADJUSTMENT KNOB

With the rubber gasket inside the mount, you can screw the knob down fully to dampen the shell resonance for a shorter decay, or back it off for a wide, open tone. In the studio, this allows you to "pre-EQ" your drums before feeding them into your plug-ins.



SAS ATTENUATING FLOOR TOM LEG

This BREAKTHROUGH eliminates the need for external muffling of your floor toms. Given that a straighter path to the ground through the floor tom legs results in greater loss of sound, the ability to alter their shape allows you to control the resonance. With options for every angle, even beyond 90° to a radical inverted position, the SAS floor tom leg makes unlimited real-time attenuation of your drums possible.



SAS RING SYSTEM

The Mapex Black Panther Design Lab uses a revolutionary process involving reinforcement rings. Mapex focuses on how the use of rings and their unique placement can affect the sonic character of the instrument. The bearing edge shape cuts were made through the reinforcement rings, as well as the drum shell's wall so that the reinforcement rings became an element of the overall bearing edge shape. This additional thickness at the edges of the drum would also add some low-end and projection to the drums' sound. These "Sonic" rings are distributed in varying degrees throughout the system.

Size	Type	SAS Rings	Position		
			Batter Side	Center	Resonant Side
8"	Tom	No Rings			
10"	Tom	No Rings			
12"	Tom	(1) 4-Ply/1" Maple Rings	v		
13"	Tom	(1) 4-Ply/1" Maple Rings			v
14"	Floor Tom	(2) 4-Ply/1" Maple Rings	v		v
16"	Floor Tom	(2) 4-Ply/2" Maple Rings	v		v
18"	Aux Drum	No Rings			
18"	Bass Drum	No Rings			
20"	Bass Drum	(2) 4-Ply/1" Maple Rings	v		v
22"	Bass Drum	(3) 4-Ply/2" Maple Rings	v	v	v
24"	Bass Drum	(3) 4-Ply/2" Maple Rings	v	v	v





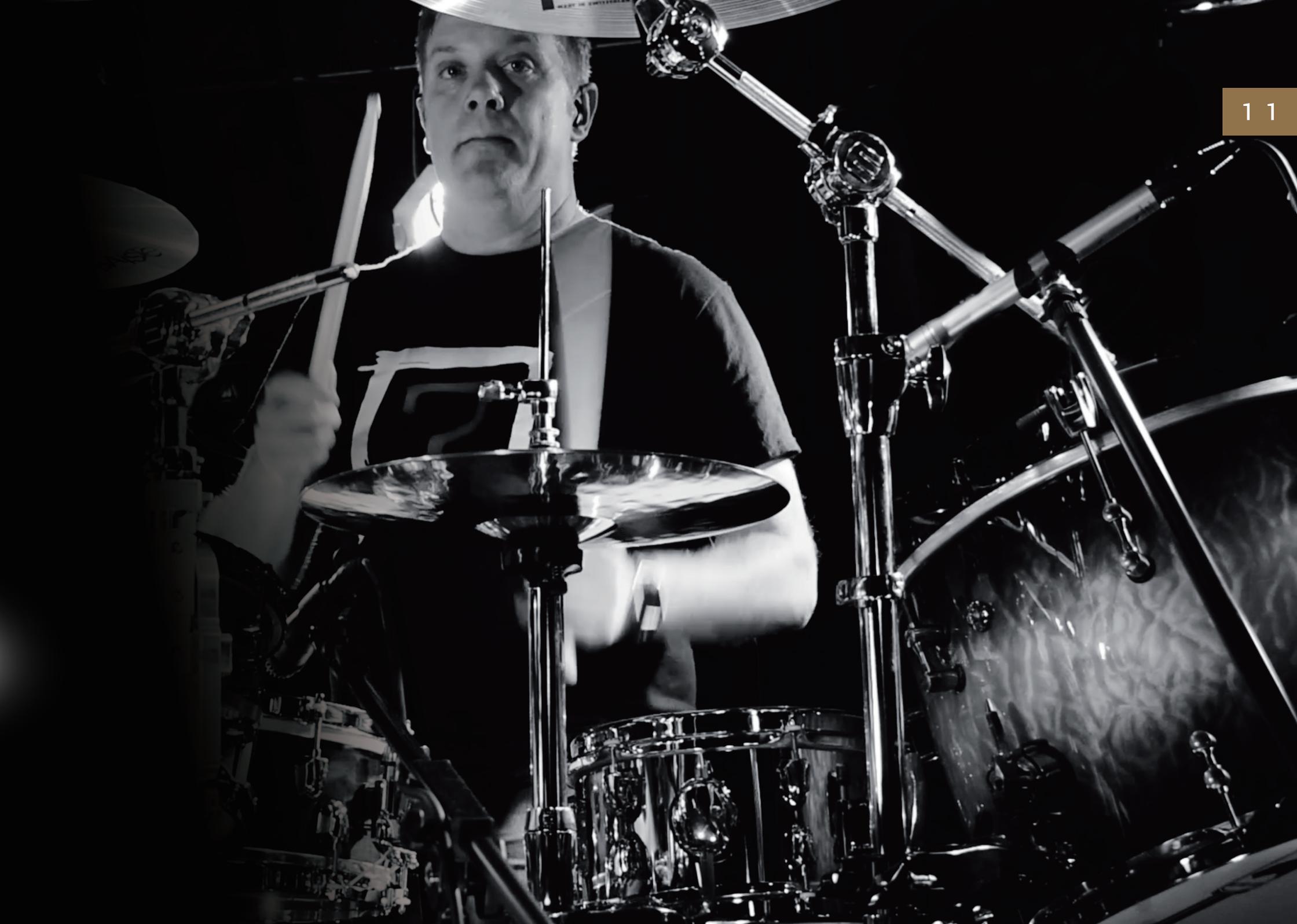
AUXILIARY DRUM (AUX DRUM)

Another unique concept from the Design Lab is the new Aux Drum. This “3-in-1” instrument concept opens a whole new world of versatility within a single drum. The Aux Drum has been designed to be a small diameter bass drum, a “gong” bass drum and also a “gong” floor tom all in one convenient and great-sounding instrument.

Aux Drum Specifications:

- 18” Diameter X 12” Deep available in Equinox and Versatus
- Batter side bass drum head and hoop
- Resonant side tom head and hoop
- A new 3-Point bracket positioning that allows for complete flexibility of set-up
- Includes removable spurs for bass drum set-up
- Includes 3, Design Lab 90° “Static” floor tom legs for the “gong” floor tom
- “3-Point” bracket positioning allows for the Aux Drum to be mounted via two TH800 Soniclear tom arms on cymbal stands
- Special “slotted” batter side bass drum hoop, allows for proper pedal positioning on the AC909 bass drum “lift” (Included)





THE DRUM KITS

EQUINOX
VERSATUS
CHERRY BOMB



MAPEX
DESIGN LAB

DESIGN LAB

DESIGN LAB

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DESIGN LAB

EQUINOX

The Black Panther Design Lab Equinox delivers the most open and bright tone in the BPD series, featuring a Padauk/Maple Hybrid Shell. The Single-Flanged Hoops contribute to a distinctive sound by enhancing the drum's resonance, producing a rich and vibrant tone. Additionally, they offer a metallic rim-shot sound, making the drum more powerful on the big stage.



PADAUK / MAPLE HYBRID SHELL



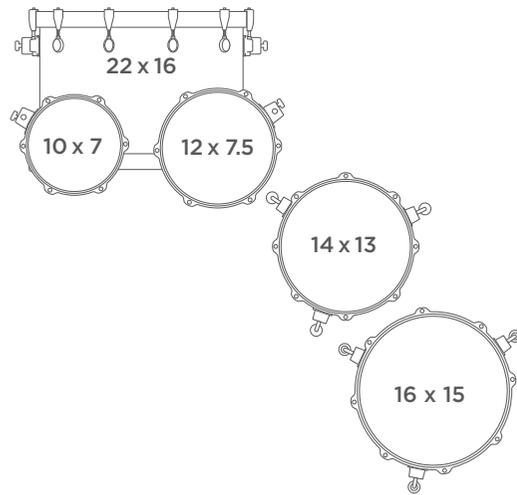
SINGLE FLANGED HOOPS



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EQUINOX

BPDLE628XFB



SPECIFICATION

System Configuration	BPDLE628XFB
Finish	Satin Flat Black(FB)
Tom	10" X 7", 12" X 7.5"
Floor Tom	14" X 13", 16" X 15"
Bass Drum	22" X 16"
Floor Tom, Tom Tom Hoops	2.5mm Single Flanged Hoop
Hardware	Chrome
Lug	Master Tune Lug





VERSATUS

The Black Panther Design Lab Versatus represents the pinnacle of instrument design. Groundbreaking innovations combine with drum-building mastery to form a unique and extremely versatile instrument. The hybrid Maple and Mahogany shells use the chamber-specific designs of the Black Panther Design Lab. The combination of these details creates an amazing symphony of instruments in one kit, where each and every drum sounds perfect!



MAPLE/MAHOGANY HYBRID SHELL



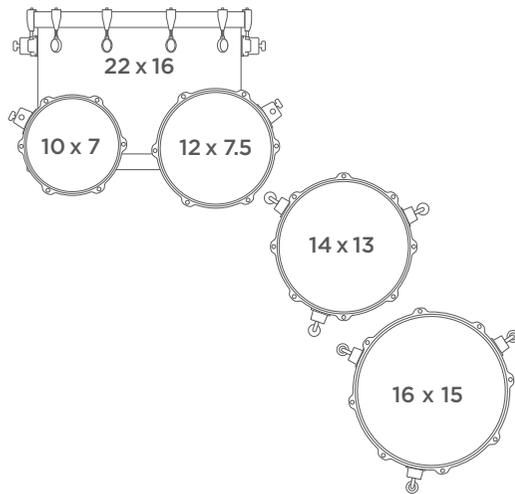
TRIPLE FLANGED HOOP



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VERSATUS

BPDLNV628XBPW



SPECIFICATION

System Configuration	BPDLNV628XBPW
Finish	Peach Burl Burst(PW)
Tom	10" X 7", 12" X 7.5"
Floor Tom	14" X 13", 16" X 15"
Bass Drum	22" X 16"
Floor Tom, Tom Tom Hoops	2.3mm Triple Flanged Hoop
Hardware	Black Brushed
Lug	Master Tune Lug





CHERRY BOMB

The Black Panther Design Lab Cherry Bomb is a very unique sound for modern drums. Using all cherry wood, the Cherry Bomb's focus is unmatched. High toms descend in 1/2" depths to retain their drive and punch, producing an incredible Vintage tone with the body of modern drums. The Cherry Bomb system is a hybrid of the classic sounds of beloved vintage drums, with modern hardware and cutting edge technology.



CHERRY WOOD SHELL



SONIC SAVER HOOP (STANDARD)

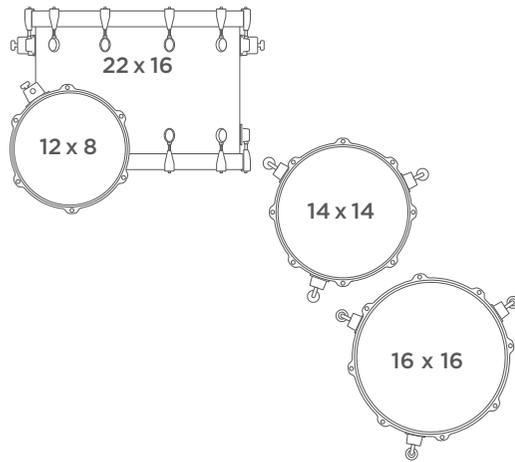


TRIPLE FLANGED HOOP (BOP)



CHERRY BOMB

BPDLNC528XBHW (STANDARD)



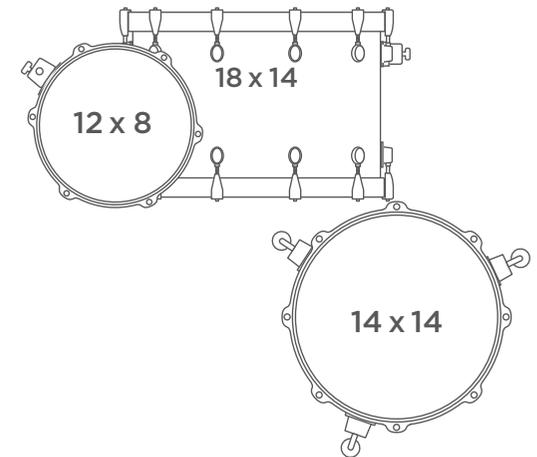
SPECIFICATION

System Configuration	BPDLNV628XBPW
Finish	Rose Burst(HW)
Tom	12" X 8"
Floor Tom	14" X 14", 16" X 16"
Bass Drum	22" X 16"
Floor Tom, Tom Tom Hoops	2.3mm Sonic Saver Hoop
Hardware	Black Brushed
Lug	Master Tune Lug

CHERRY BOMB

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BPDLNC481XBPB (BOP)



SPECIFICATION

System Configuration	BPDLNC481XBPB
Finish	Piano Black(PB)
Tom	12" X 8"
Floor Tom	14" X 14"
Bass Drum	18" X 14"
Floor Tom, Tom Tom Hoops	2.3mm Triple Flanged Hoop
Hardware	Black Brushed
Lug	Master Tune Lug





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