Chaya

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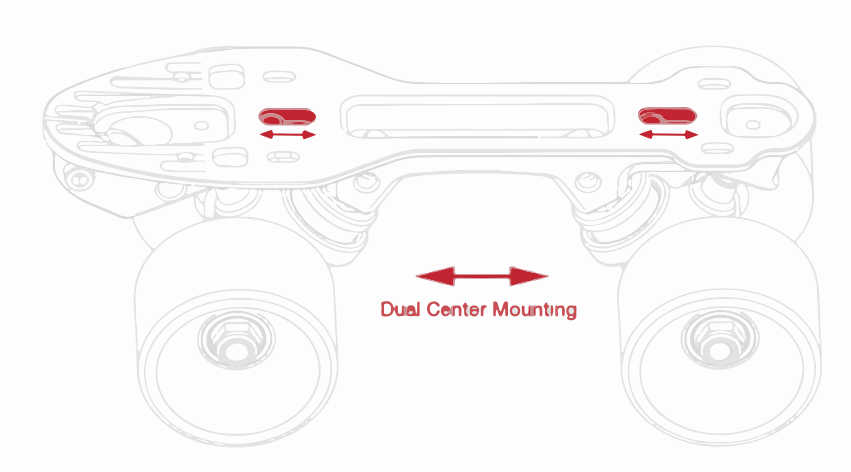
What is DCM ?

DUAL CENTER MOUNTING.



CHAYA'S DUAL CENTRE MOUNTING SYSTEM (DCM)
Is revolutionary in Roller Derby, but a similar system has been a standard in ice and speed skating for decades. Chaya plates now offer two different mounting systems in one plate! The DCM system fits all Chaya boots and additionally, our Chaya plates also offer the standard mounting system to fit boots of other brands.

The DCM features two sliding nuts placed inside the frame – one under the ball and another under the heel. The boot can slide backward and forwards and even sidewards in the toe area as the boot comes with an across slot in the front mounting. This allows you to adjust and customize the frame to your perfect position, creating a truly custom setup that you can change or adapt as often as you want.

The DCM system is mounted through the sole of the boot from inside to outside. There is a small recess in the shoe to countersink the screws which need to be used for the assembling. They are covered and padded of course in order not to hurt your feet.

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What is DCM ?

DUAL CENTER MOUNTING.

ADVANTAGES OF DCM

· Less hardware needed for the assembly
· Plate position can be customized and changed as needed without the help of a plate mounting expert
· Easier handling for the (online) shops – the plate can be mounted by skaters without drilling

The DCM technology can be found in the following Chaya plate models: Shiva, Ophfira, Zena, and Shari

What is so good about the mounting system on our plates?

Besides the DCM, Chaya plates also offer the possibility to assemble the plate to a non-Chaya boot featuring a standard mounting system. Just mount them as usual by drilling holes into your boot. That means any shoes can fit on our plate.
The DCM is anyway a great system when combined with a Chaya boot as you would be able to change your setting as often as you want. You don't have to worry anymore about drilling additional holes in the boots.

You can´t make mistakes to assemble your plate as everything is set up for you. Please note: The hardware for a standard mount is not included in the package. You will have to obtain that hardware from a skate retailer.

What material does Chaya use to manufacture their plates?

Chaya offers plates in different materials – aluminum and glass fiber reinforced composite.

Aluminum

Aluminum alloys are alloys in which aluminum (Al) is the predominant metal. The typical alloying elements are copper, magnesium, manganese, silicon, and zinc.
The 7003 aluminum we use in Chaya Shiva plates contains more zinc and has a higher tensile strength than 6000 series aluminum. This is important for the strength and rigidity of the plates. The plate is also T6 heat treated. This process makes aluminum much harder and therefore wear-resistant and guarantees a great power transfer.

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What is DCM ?

DUAL CENTER MOUNTING.

The 6061 aircraft aluminum we use for Chaya Ophira and Zena plates contains more magnesium and silicon, which gives the material more elasticity making it easy to work with. It has less tensile strength than 7000 series aluminum; important for the strength and rigidity of the plates. The plate is also T6 heat treated.

Chaya Galaxy plates are produced by casting. The plate is a pressure casting procedure where liquid aluminum is filled into a preheated steel mold using high pressure to ensure a perfect match of stiffness and rigidity

Composite

Our Shari and Aja plates are made of glass-fiber reinforced plastic (GFRP) – GFK material. The glass fiber provides that extra bit of strength and durability to the material mix. The higher the glass-fiber part in the mix the stronger the plate, but at a certain level the material will get brittle. The right mix is needed and also depends on the overall construction of the plate. Composite plates are produced by injection molding. A mix of granules of melted plastic and glass-fiber is filled into molds using high pressure to ensure a perfect result.

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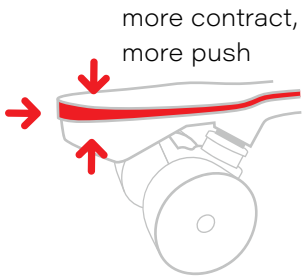
What is PTS ?

POWER TOE SYSTEM?

What is PTS - POWER TOE SYSTEM?



Advantages of PTS
- **more contact**
- **more push**

Sergio Mc Cargo, one of the best custom boot shoemakers in the world, uses the Power Toe System in all his custom boots. World-class inline and ice speedskater has testified that the toe raises as it gives the toe and foot muscles some pre-tension which gives them more power for each stride and as a result more speed. This concept has been transferred into the Chaya plates to give you more power and speed. Every skater we've met likes more power and speed!

Traditional standard boots are usually not flat and have a slightly raised toe box. A flat plate would pull down the boot putting a lot of unnecessary stress on the toe area. Chaya´s PTS closes the gap between boot and shoe following the natural boot shape.

Advantages of PTS
Better Performance – more power, speed, and control
Pre-tension of muscles
no stress in the toe area of the boots
Better look and finish

The Power Toe System can be found in the following Chaya plate models: Shiva, Ophira, Zena, Shari, and Aja

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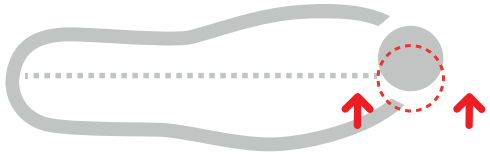
What is PTS ?

POWER TOE SYSTEM?

What is Offset Toe Stop?



The toe stopper on Chaya plates is slightly shifted to the inside closer to the big toe by following the anatomy and natural way of movements which helps you to move fast on your toes or to stop quickly.

Advantages of Offset toe stops

Following the human anatomy
Easier and faster acceleration when walking/starting to skate
Easier and more effective stops
More even wear on stoppers
More power and pressure

The offset toe stopper can be found in the following Chaya plate models: Shiva, Ophira, Zena, Shari, and Aja.

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What truck angle does Chaya offer?

What truck angle does Chaya offer?

Chaya plates are equipped with 20˚ trucks. The more you increase the kingpin angle, the tighter the turning radius which results in sharper turns and quicker response. It´s a little bit more difficult to control the plate at a higher speed on the other hand. Derby players often prefer a plate that offers just such performance and we feel that the 20 ˚ truck offers the perfect match of agility and reactivity vs. control.

20° Axles offer

Better agility
Sharper turns
Quick response
More dig
Better power transfer
Still good control and stability at high speed

20° trucks are used in Shiva, Ophira, and Zena plates.

Which truck materials does Chaya offer?
We need to separate the truck hanger – which means the truck base - from the truck axles. The hanger is usually made of aluminum for mid to high-end plates. The way it is manufactured can vary – see also below information under "Different ways the Trucks are Manufactured". A low-end truck hanger is made by injected plastic.

The axles of a truck are made of different grades of steel. Average axles use carbon steel while top models are made of CroMo steel. CroMo steel is a type of steel that is alloyed with Chromium and Molybdenum to make it stronger and lighter than normal carbon steel. Carbon steel is iron alloyed with carbon. Our XTNDR axles are made of CroMo steel

How do we manufacture the truck?

There is 3 kind of way to manufacture the trucks:

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What truck angle does Chaya offer?

Casted Aluminum Trucks

The technical name for it: die casting. It´s a pressure die casting procedure where liquid aluminum is filled into a pre-heated steel mold using high pressure to ensure a perfect match of stiffness and rigidity.

Forged Aluminum Trucks

Forging is a manufacturing process where metal is pressed, pounded, or squeezed under great pressure to produce high-strength parts. Forged aluminum is used for high-end trucks as they provide a perfect mix of performance and safety, but a lighter-weight metal is needed for speed or energy efficiency.

XTNDR Trucks and Axles

Paired with the Chaya XTNDR hangar (truck) XTNDR axles open the door to you to finetune and boost your park skating performance. The axles are made of super durable high-grade CroMo steel. Most park skates out there are equipped with rather narrow trucks which limit your skating performance. A common width of a truck incl axles is around 105mm. Thanks to the three different sizes of XTNDR trucks you can expand your base from 126mm (short axles) to 136mm (medium size) and 146mm (large size) which makes it easier to lock in on rails and copings. You even have the opportunity to create an asymmetrical wheelbase with a shorter axle on the inside of your skate to avoid that wheels touch too easily during skating. The wider base of Chaya´s XTNDR trucks opens the door for you to a whole new world of park skating. Create new tricks, improve your style, have fun in the skate park with your friends.

What are the different systems to fix the wheels?

When you select your truck, you can look at the axle and choose the fixation system you prefer:

Threaded is the most classic one
Quicky axles. They work similarly to a ballpoint pen - simply click the button and exchange wheels in seconds without a need for special tools.
Clip axle system saves you heaps of time when exchanging your wheels in just seconds without a need for any tools, by simply turning a small metal lever.

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Why are the cushions so important?

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The cushion will give you the feeling of your skate. Our cushions are made with SHR (super high rebound) urethane to guarantee long durability and regular performance. Interlock cushions absorb all kinds of vibration caused by imperfect surfaces as well as impacts from landing jumps.

What hardness should I use for my cushion?

Depending on your skating style and/or your favorite playground, you can use a softer cushion if you like to get a faster edge or if you skate on imperfect surfaces. If you like more direct control and if your practice is indoor you can go on a harder cushion.

How often should I change my cushion?

The more you skate the softer the cushion will feel. After a while, you even need to tight your kingpin even more to keep the same feeling. Over time, the cushions will slowly lose quality, so when you feel that they get too soft and your kingpin has been screwed to the maximum, it's time to change the cushion. To progress faster and keep a regular feeling on your skate we recommend changing your cushion every 6 months if you skate more than 3 times a week.

Why do some cushions have different heights?

We have different heights of cushions depending on the plate. There are coned and barreled cushions with different heights. For example, our top metal plates have 12mm barreled and 12mm coned cushions when Shari use a 12/15mm cushion

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How do I know if my toe stopper fits my skates?

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The stem is the threaded part of the toe stop that screws into the toe stop housing. The most common standard used for the thread is 5/8". There are short and long stems. The average length varies from around 17mm to 30mm. The stem length will help determine how close to the ground your toe stop sits. Most Derby players prefer to use stops with long stems which allows the skater to customize the toe stop height which ensures the stop is locked with enough threads in the plate housing. Park skaters are looking for short stem stops which place the stop out of the way while still giving the skater peace of mind knowing that the stop is still there for potential support or maneuverability.
Our toe stopper uses those mounting information as main specs: long - 30 mm, thread 5/8", short - 18 mm, thread 5/8". You need to check the thread size of your plate to check if it's compatible. All Chaya skates use a 5/8" thread.

How do I know if a toe stopper is good?

Entry-level roller skates, like kids skates and/or price point skates, are often equipped with very hard injected plastic stops. They don´t provide a good stopping function.

Polyurethane (PU) stoppers offer a better grip and performance. They are very common in lifestyle skates.

High-end toe stops use a blend of natural and artificial rubber which offers the best bite and performance as well as the best lifespan. The density of the stopper refers to how hard the compound is. Harder stoppers will be more durable but may not provide enough grip to stop effectively, especially on slippery surfaces. Soft compounds are less durable but can provide smoother, more aggressive stops in most cases. The Chaya Cherry Bomb Stopper is a combination of natural rubber and durable, extremely durable synthetic components.
The diameter of the contact surface (footprint) is the second main element to look after. The 48mm diameter of the flat-shaped stopper provides high stability and consistently consistent grip, which is needed for quick and quick stopping.

When should I replace my toe stopper?

Make sure you replace the toe stopper before you reach the thread, especially if you skate indoors. Besides this advice, you can keep them as long as they give you a good contact surface with the ground. You can get longer life of the toe stops by rotating them regularly by loosening the toe stop and rotating them 180 degrees. We also suggest switching your toe stops from your lead skate to your less dominant skate. This will help with evenly wear on the toe stops.