



BONT[®]
WORLD'S FASTEST SKATES



3 POINT VAYPOR 3D

2006 marks the introduction of the 3 point Vaypor boot. The 3 point boot offers a number of advantages over the 2 point boot such as,

- Stiffer non flex base from the curved carbon and also the fact that the span between mounting points has been reduced.

- Lower mounting points positioned between the wheels instead of on top of the wheels.

- Options for pitch. The standard pitch of 10mm was designed for sprinting but most inline skaters now compete in marathons where a 7m pitch is more desirable due to less stress being placed on your muscles. The pitch of the skate is the difference in height between the front and rear mounts.

- More stability at high speeds.



BOOT

VAYPOR 3D 3 POINT



The Vaypor boot is constructed using a one piece construction technique that sandwiches cross weave carbon, uni-directional carbon, glass fiber construction embedded with epoxy thermo setting resin combine to make the base. The fibers are hand laid in the matrix according to the strain they will have to bear. Super Mold Technology allows you to obtain a custom fit from a stock boot. 3D lenticular outer, with black micro fiber lining. A metal Bont Micro adjustable buckle connected to a lace cover that tightens your foot into the boot and a top double locking power strap. The boot also features a rubbing patch on the toe and tendon pillow, and a 2mm high density memory foam foot bed to absorb bumps in the road. The boot is made on a new last that is tighter in the toe and heel cup area.



3 POINT VAYPOR 3D'S FEATURES

STRENGTH

The distance between the mounting points has been reduced from 195mm to only 83.5mm greatly increasing the strength of the boot.

3 POINT
2 POINT

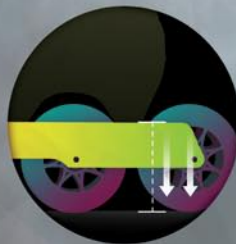

RIGIDITY

By lowering the height of the frame, and increasing the height of the mounting blocks, we created a lot more curve in the carbon giving the boot an enormous amount of rigidity.



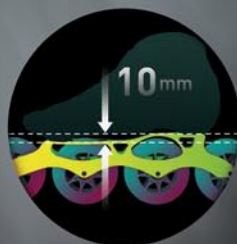
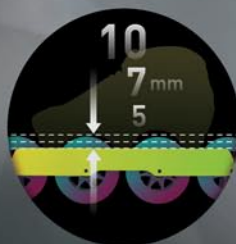
STABILITY

The mounting points are the lowest on the market. This increases stability at high speeds.



PITCH

The 3 point boot is the first boot in the world to offer options for pitch. 5mm, 7mm or 10mm are available with the standard boot being 7mm. Less pitch is more desirable for longer distances. More pitch is desirable for sprinting.



ONE PIECE vs TWO PIECE BOOT CONSTRUCTION



ONE PIECE

One piece boot construction was pioneered by Mr. Inze Bont in 1974. The boot is made from the inside out first starting with the sole and liner, then the memory foam padding and mounting blocks and then the carbon, fiber glass and heat moldable thermoplastic are resined over it all to form one virtually indestructible boot. Other materials like anti stretch tapes that stop the boot stretching and some other strong materials are also resined into place. Each piece of material is hand laid where needed based on 32 years of experience. All Bont boots are made using the traditional one piece boot construction method.



TWO PIECE

The two piece method was designed for fast manufacturing to maximize profits. The carbon base is made first and then the liner and the outer are sewn into one piece and glued into the carbon shell. It is a fast way of making boots but boots made using this process should not be considered for professional racing. The liner and the carbon are only held together by a layer of glue.

FRAME 

S-FRAME

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The S-frame is the world's lightest inline racing frame weighing in at only 121 to 138 grams depending on the frame's length. The military grade magnesium is super light weight and a comparable tensile strength to 7000 series aluminum. The frame has 3 mounting points and will only fit onto a boot with 3 mounting points.

The S shape, combined with the 3 mounting points and wheel axles, gives the frame an amazing strength to weight ratio.



BEARINGS



BONT SWISS

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Bont is proud to announce a new partnership with Jesa bearings. Jesa is the largest specialty bearing manufacturer in Switzerland and was established in 1969. Jesa is renowned in Europe for providing solutions for some of the most difficult applications, with its 'clean sheet' approach to each project.

For Bont's inline racing application, Jesa has produced a bearing with the lowest friction on the market. They made the bearing with an exceptionally fine polished surface finish on the bearing tracks and incredibly precise balls. The better the finish is on the bearing, the less resulting drag. In addition, light weight plastic cages also create lower resistance. The ceramic balls not only generate less heat but offer considerable weight and friction benefits. Jesa increased the radial clearance providing slightly less 'total contact ball patches', which reduces drag.







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