

Mounque Barazone's Patent Pending ROLLER SYSTEM for Grids or Hybrid Mats And Patented Multi-Bar Tensioning System for Paving Fabrics

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Nonwoven fabric has a high elongation and needs to stretch for a smooth installation. Your GAC machine is equipped with Mounque Barazone's **PATENTED MULTI-BAR TENSIONING SYSTEM (bottom pictures row 2)** now with the **PATENT PENDING SLIDER AND RADIUS** for pinning the front bars in place. Fiberglass Hybrid Mats and Grids and Grid Composites have low or no elongation and high modulus and do not stretch. They wrinkle with any amount of impendence or resistance during installation and require little or no tension during unrolling. Mounque Barazone developed an **OPTIONAL PATENT PENDING MULTI-BAR ROLLER SYSTEM (bottom pictures row 1)** now with the **PATENT PENDING SLIDER AND RADIUS** for pinning the front bars in place. It replaces the **PATENTED MULTI-BAR TENSION SYSTEM** used with high elongation paving fabric. The **Patented Rotating Spindle Roll Holders** are adjusted for maximum braking for paving fabric. A minimal adjustment and pressure on the disc brakes is required with very little tension, only enough to keep the roll from free wheeling for high modulus materials Grids and Hybrid Mats.

The **PATENTED MULTI-BAR TENSIONING SYSTEM SLIDERS** attached to the **Patented Z-Bars** with the quarter round ends that the stretching pipe clamps onto are removed. They are replaced with the pictured **OPTIONAL PATENT PENDING MULTI-BAR ROLLER SYSTEM sliders with 8 neoprene bearings**. There are two sets of bars for both the front and back. The front have the new **PATENT PENDING RADIUS SLIDERS** for pinning to the front **Patented Z-Bar** at different holes for different angles to eliminate movement or loosening and dropping down. The back bar for either system does not have **THE PATENT PENDING RADIUS ON THE SLIDER**. That bar is positioned very low just above the pavement. It is best that it is not fixed in place other than by the tightened bolt and T-Handle nut. If the operator hits an object that is raised in the road or a curb it is best that rear bar loosen and move backward. Then the bar can be repositioned. This avoids the PVC pipe breaking or machine parts damaged or bent if it hits something.

The straight center slider has two bearings and is one side of the center **Patented Z-Bar** tubing. The outer sliders mount to the outer **Patented Z-Bars** and are off set with one bearing.

These bearings accommodate 2 inch (5.08 CM) schedule 40 PVC pipe that slides over them for a press fit. Placed over the 2 inch (5.08 CM) PVC pipe is a 2.5 inch (6.35 CM) PVC schedule 40 pipe. Use 1 set screw to secure them together into one roller pipe, 2 inch (5.08 CM) inside and 2.5 inch (6.35 CM) outside. Additional set screws will cause more flexing of the pipes and elongate holes. The set screw is solely to keep the 2.5 inch (6.35 CM) e PVC Pipe from rotating on the 2 inch (5.08 CM) Inside PVC Pipe.

The outer off-set sliders with bearings line up with the end of the cones and brushes and are mounted to the outside of the outer 2 inch (5.08 CM) Z Bar tubing. The PVC Roller Pipes don't telescope. They must be the correct width of the material. If there are different size rolls then different sets of PVC Roller Pipes are required. If using a short roll centered then the center double bearing slider may be removed and only the two outer rollers used with one pipe. As material gets wider and flexing on the pipe is evident then the middle slider and 2 sets of pipes are necessary. The center roller can also be used with one outer off set roller when a short roll is off set to one side.

Telescope the machine out a few inches past the pipe. Place the inner 2 inch (5.08 CM) pipe over the middle bearings and then telescope the machine inward with the outer bearing press fitting into the pipe and locking the roller pipes in place on the inner and outer bearings.

The roller pipes are not identical widths for the machine set up. The middle slider with dual bearings is attached to one side of the center Z Bar 2" (5.08 CM) tubing. That roller pipe will be 2 3/8 inches (6.0325 CM) shorter and the other side roller pipe will be 2 3/8" inches (6.35 CM) longer. For 10 feet (3.048 M) one side will be 4 feet 9 5/8" (1.4637 M) and the other side will be 5 feet 2 3/8 inches (1.5843 M).

In 2020 we added the new patent pending multi-hole radius to the front sliders for both systems. These pin to the Z bars with holes for the Roller System Sliders and the Sliders for the Patented Multi-Bar Tensioning System. Fabric installations for over 40 years found the bolt and T-Handle with spring washers were sufficient to hold them in place with no movement unless the back bar close to the ground struck an object or a curb. The movement backward is preferential. With the advent of stiffer and heavier Hybrid Mats, Grids and Grid Composites the weight and force exceeded what the bolt and T handle nut ability to hold the front bar in position. Movement developed and the PVC tensioning bar and roller bar could move out of position and drop down during installation. The addition of the new radius and pin has eliminated this problem. The front bars can be pinned in place and set from straight to various angles up to 45 degrees with full or partial extension of the slider. The bars are set just below the bottom of the fabric diameter. The more diameter the further back the slider and lower the bar. Laborers can insert the roll onto the machine without lifting the roll it up over the bar.



Slider Fully Extended



Slider Extended 3/4



The sliders for both the **PATENTED MULTI-BAR TENSION SYSTEM AND PATENT PENDING ROLLER SYSTEM** front and back can be adjusted along the **PATENTED Z_BARS T-Handle Nuts and Bolts** for different extensions from fully extended to partially extended at 3/4, 2/3, 1/2 or other and various different angles or straight.

Patent Pending Roller System with Front Bar Patent Pending Slider with Adjustable Radius for pinning in place. The rear slider and bar does pin in place so it can move backward if it comes in contact with something in the road (manhole) or a curb and does not break the PVC or bend a slider or Z Bar.



Patented Multi-Bar Tensioning System with Front Patent Pending Slider Adjustable Radius for pinning in place. The rear slider and bar does pin in place so it can move backward if it comes in contact with something in the road (manhole) or a curb and does not break the PVC or bend a slider or Z Bar.



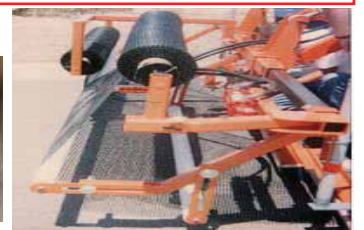
Front Roller Sliders with Patent Pending Radius



Rear Roller Sliders with No Radius



Multi-Bar Tension System Slider for PVC



Experimental 2 Short Roll Grid System with older Roller System