

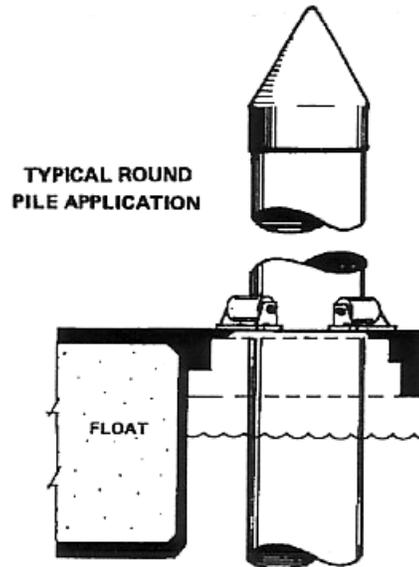
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# Pile Roller Assembly

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Pile rollers were developed in the 1960's as an effective way of holding a floating structure securely to a guide piling. Prior to pile rollers, the industry was using either a metal pile ring or wood rub blocks for this purpose. Both of these methods have their place in some types of construction and in relatively quiet waters. With the increased use of concrete pilings instead of wooden pilings, and with many marinas being built in locations with high tidal changes and current flows, it was necessary to find a better way to connect the dock structure to the pilings. The first pile roller assembly consisted of a rubber roller (actually a pallet roller) with an oiled bushing pressed into each end. This then was greased and a stainless steel sleeve inserted through the center creating a greased wheel on a stainless steel axle. This then was attached to a mounting bracket with a 3/4" diameter galvanized bolt, washer, and nut.

In 1976, Henderson Marine developed a superior pile roller utilizing a revolutionary new material called UHMW (Ultra High Molecular Weight) plastic as the roller part of the assembly, a solid stainless steel axle and a choice of two mounting brackets. This pile roller assembly has been installed in many marinas and boat harbors, and has performed exceedingly well on every installation without exception.

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## PILE ROLLER ASSEMBLY ITEM NO. 06-01 (HD), 06-01SD (SD)

**Roller:** This roller is made of a revolutionary "Ultra High Molecular Weight" plastic that is self lubricating, unaffected by marine environment, and next to impossible to wear out. On-the-job wear test and engineering data shows that this material wears five times better than any rubber or polyolefin materials on the market.

**HD Mounting Bracket:** This bracket is unique to the marina industry in that it was designed by **Henderson Marine** to address the problems of the old style bracket designed in the 1950's. This improved bracket was professionally designed and engineered to withstand maximum loading in all directions. It is cast from high strength ductile iron, so it is 50% stronger than the conventional welded bracket. Besides being stronger and better looking, we added an adjustable feature and placed the mounting holes so that the complete unit can be quickly installed without disassembly. The unit is hot dipped galvanized.

**SD Mounting Bracket:** This bracket is similar to our 611HD except that it is made of rolled steel with welded ears rather than cast ductile steel. This allows the bracket to be welded to a frame, if needed. These brackets are hot dipped galvanized to retard rust formation.

**Axle:** The axle for this heavy-duty roller is made from a solid piece of stainless steel rod (alloy T304). The axle is held in place in the galvanized bracket with galvanized or stainless steel washers and stainless steel cotter pins on each end. As the roller is totally self-lubricating, it moves on the axle easily without binding or hanging up. The axle is never required to move or turn.

**Weight:** Complete assembly – 6 pounds, roller only – 1.1 pounds, axle only – 1.2 pounds, bracket only – 3.5 pounds

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