

(Specification Sheet)

HYDRA-RIB ROLL-IN BASKET

Models: HR1000 & HR1025

The HR1000 and 1025 are the most advanced roll-in baskets ever developed. One look says it all. From the outset, HYDRA-RIB wanted to design a product that would enhance the appearance of any facility. After all, it is the 21st century. HYDRA-RIB understands that cosmetics can be critical for projecting an image. That's just one reason a tapered trapezoid post and extension boom design were developed for the HR1000 and 1025. Just as important is the weight to strength ratio. A tapered boom simply gets the strength where it is needed most, while maintaining as light as possible support structure.



The HR1000 and 1025 have been designed by people who have an understanding of the environment in which this type of product is to be used. Contributing to this design is years of experience in working with roll-in backstops of all types in the NBA, colleges and universities. Unlike other designs by other manufactures, HYDRA-RIB uses hands on approach to engineering. We understand things like limited storage space, worker shortage, the need for reliable operation and other factors that directly affect how these types of products perform. Things like flooring strength, inclined ramps, door-opening sizes, and single person operation were all taken into account.

No other design has been able to combine the sleek cosmetics with the Spring Assist Technology. The advantage of springs compared to other operating system is totally unmatched in all areas.



SPRING ASSISTED FOLDING:
Depending on the design requirements, the HR1000 and 1025 use six to eight 4" springs to fold and unfold the system. These springs are made of high quality "chrome-silicone" steel. The elasticity of this material provides as much as 30% more stretch compared to conventional carbon steel springs.

SPRING ASSISTED FOLDING:

POST AND EXTENSION BOOM:
The secret to the HR1000 and 1025 sleek design and strength are in the post and boom. The process for building this structure is complicated but worth the look of the final product. Heavy gauge sheet steel is laser cut for accuracy and formed into a full length tapered trapezoid tube to provide maximum strength versus weight. The construction is from the inside out and is fabricated as a single structure.

POST AND EXTENSION BOOM:

BASE CONSTRUCTION:
Each HR1000 and 1025 is constructed with safety being of primary concern. Under the sleek padding design is a steel support structure that can withstand considerable forces. Critical components are laser cut to provide high quality parts. Twin "S" trusses run the length of the base connecting the front "A" frame support to the 2-1/2" thick ballast plate at the very back of the base. These structures are permanently welded and reinforced to provide a ridge platform to attach the folding posts and operating system.

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BALANCE VS. BALLAST: Modern floors are not always designed for heavy objects. For that matter, neither are older floors. That's why the HR1000 and HR1025 are designed as the lightest system in its class. The basic HR1000 comes in just under 2,500 lbs. Furthermore, you will really appreciate the lighter weights when maneuvering this type of product in tight areas, rolling up inclines and during positioning for games. Other manufactures just add weight to the back one half of the base until their system sits solid on the floor. Their operating system, whether hydraulic or spring assist, ends up in the front half of the base providing little, if any, effective ballast requirement. Instead, the HR1000 and HR1025 have its primary ballast strategically located at the very back end of the base. This provides maximum leverage to help hold the base firmly to the floor. Additionally, the Spring Assist system also aids as a form of ballast. When the HR1000 and HR1025 are set up to the playing position, the weight of the springs is shifted to the back of the base adding to the effective ballast. This is just another reason why the HR1000 and HR1025 can have less overall weight and still perform better than other roll-ins of the same category.

WHEEL SPACING: It should seem obvious. Wheels that are spaced over a larger area will spread the load. That's why the four 8" rear wheels on the HR1000 and HR1025 are spaced out across the back of the base. This allows floor contact to be made at four different locations at the back of the base, thus reducing the chance of floor damage over time. During transport, the front of the HR1000 and HR1025 is carried on two 6" swivel casters to allow for directional control.



BRAKE BAR VS. BRAKE PADS: Traditionally, other roll-in baskets have used round brake pads in the front two corners of the base to hold the backstop from moving around during play. They can result in overload forces on the floor at those points.



Here's why! All of the total weight of the total system is transferred to those two points during a hanging dunk. That means, more than 2500 lbs. is placed on the floor at the front end of the base. Imagine, two small round brake pads transferring that entire load to your floor in two small areas of 28" square inches. The HR1000 and HR1025 use a brake bar that covers nearly 100 square inches and spreads the associated load across the entire front of the base. Additionally, the brake bar is designed to remain flat on the floor even if the back of the base leaves the floor when heavy loads are placed on the rim area.

THREE POINT ANCHOR

SYSTEM PLUS LOCATOR: As required by NCAA and NBA requirements, any roll-in basket must be secured to the floor to prevent movement during regulation play. Most roll-in baskets are secured at the back of the base. The HR1000 and HR1025 are also secured. But, unlike other roll-ins, the HR1000 and HR1025 use a tie down system that also align the back and front of the base to assure accurate placement of the backboard and rim over the court. Placement of the backboard and rim is now easily repeatable within a fraction of an inch.



CENTER POINT BACKBOARD ATTACHMENT: The center point backboard attachment system has virtually eliminated backboard breakage as a result of dunking. The backboard is attached to the extension boom at the goal mounting plate. This insures all rim pressures bypass the glass backboard and are transferred directly to the extension boom. Additionally, the HR1000 and HR1025 backboard attachment bracket is designed to permit folding the backboard flat to further reduce storage space requirements. And, if ever necessary, a replacement backboard can be equipped with a separate attachment bracket to allow changing backboards in as little as seven minutes with a properly trained crew.



SHOT CLOCK SUPPORT: With the advent of multi-sided shot clocks, HYDRA-RIB has developed a clean, strong shot clock support which will handle a Variety of shot clock designs. The shot clock also folds rearward for storage. But remember, the weight of the shot clock effects the amount of ballast weight required to stabilize the base and the number of springs required to fold the system for storage. Talk to a qualified HYDRA-RIB representative for additional details.

MAJOR PIVOT POINTS: For maximum life and smooth operations, all major pivot locations rotate on high load bearings. All major pivot points are capable of being lubricated for extended life. Each high load pivot is backed up by a secondary system to prevent collapse of the support structure in the unlikely event that a bearing fails during operation.



RIM ELEVATION ADJUSTMENT: The rim elevation can be adjusted to exact standards. Although not normally required after initially set, the rim and backboard elevation can be adjusted by changing the pivot distance on the back of the main post. Simply spin the double nuts on each side of the back main pivot up or down and retighten if adjustment is ever required.



OPERATING INSTRUCTIONS: Instructions located on the back of the main post panel are located for easy reference. They provide easy to follow steps for folding and unfolding the post.

MAIN POST LOCK: The main post is locked into the playing position by a 1" diameter lock bolt. The post can be folded repeatedly and re-locked in the playing position without having to re-adjust the rim elevation.



STORAGE LATCH: During storage or transportation, a storage latch is easily hooked into place to hold the post in the folded position. When the Ultra-Pro is placed in the playing position, the storage latch is concealed inside the main post.

BASE AND PADDING: The Ultra-Pro padding system is design to provide for safety, ease of operation and enhance the total appearance of the goal support structure. The "Slide By" base design provides a lower frontal area and reduces the chance of player contact. The front of the base is covered with at least 3" thick foam mounted on OSB and covered with 12oz. vinyl laminate. Side pads are covered with 2" side pads and covered with vinyl laminate. Padding extends down to the floor during play and is elevated at least 5" above the floor to allow transport over unlevelled surfaces. Padding is not normally removed during transport or storage.



FINISH: All metal surfaces are chemically cleaned and primed. A high grade commercial grade two part urethane white finish is applied to all visible surfaces. Easy to follow instructional decals are then placed in strategic locations to help the user in operating this product.

STORAGE: Storage space is a premium commodity in any sports facility. That's why a large design effort was made to compress the Ultra-Pro into the smallest storage configuration possible. Compared to any other roll-in in its class, a pair of Ultra-Pros will take up 32 square feet less space when folded for storage.



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