

# DRAPER<sup>®</sup>

## GYMNASIUM EQUIPMENT



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# Draper will be there from the Planning Stage through Game Time...

Draper is committed to being your expert consultant for all gymnasium equipment.

- Draper offers the most complete and highest quality line of gymnasium equipment available, including basketball backstops, divider curtains, wall pads, volleyball systems, mat lifters and more. Draper offers all your gymnasium equipment needs from a single source—no need to deal with multiple manufacturers or suppliers.
- Draper's industry-leading product quality starts with the skill and commitment of our design and manufacturing staff and continues all the way through the life of your facility. Draper's quality is evidenced by the industry-leading advances that others have followed. Draper is so confident in our product quality that we offer the best warranties in the gymnasium equipment business.
- Draper and our network of dealers provide complete service from project infancy through installation and beyond.
- Let Draper or your local Draper dealer assist you with equipment selection, writing specifications and facility layout utilizing our Draper EZ-SPEC. With EZ-SPEC, we can instantly provide complete specifications, drawings, layout details, weights and point loads in an easy to use electronic format you can drop right into your project file. This powerful tool gives you information and details you need in planning our project.



## Draper EZ Fold<sup>®</sup> Basketball Backstops *The First & Finest Basketball Backstops... Since 1955*

This tradition of innovation has continued for over 50 years, and today EZ Fold is the highest quality backstop on the market. For more information go to [www.draperinc.com/go/WhyEZFold.htm](http://www.draperinc.com/go/WhyEZFold.htm)



## State of the Art Manufacturing:

Draper employs high-tech manufacturing methods utilizing precision equipment like CNC controlled high definition plasma cutters, numerically controlled benders and robotic welders. Draper's investment in this type of equipment insures accurate production and improves manufacturing efficiency. All welding is done in precision jigs and fixtures to insure proper fit and alignment.

UNLV Mendenhall Center, Las Vegas, NV,  
Architect: DCC Architects, Las Vegas, NV,  
Photography: Matt Oberer, mattphoto, Albuquerque, NM.





# Draper EZ Fold® Backstops— Built Tough To Last Longer!

Draper is one of the few basketball backstop manufacturers that provides a powder coat finish as standard. Draper provides either black or white finish at no extra charge. Powder coating provides one of the most durable and long-lasting finishes available. Powder coated surfaces are more resistant to chipping, scratching, fading and wearing than other finishes. The superior durability of powder coat means Draper backstops will arrive on-site with a much better appearance, virtually eliminating the need for the installer to touch up or painting contractor to repaint the backstops.

Powder coat produces a cleaner glossier looking finish. With powder coating, there are no runs, drips or sags. Powder coat's thicker finish also provides fewer appearance differences due to the base color of the material being coated. It is also much easier to control slight shade variations between manufacturing lots when compared to wet paint systems.

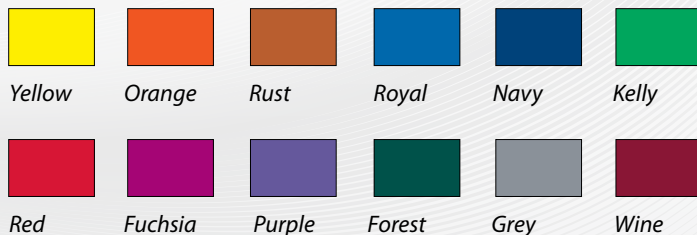
A wide variety of powder coat colors greatly enhance the aesthetics of gymnasium equipment. With nearly unlimited colors to choose from, Draper can provide virtually any color scheme. Contact Draper for a full line of over 160 available colors. Specify the school colors, pick a color to match the gym décor or choose a white backstop so it virtually disappears against white bar joist. White backstops are typically considered more attractive than black backstops when suspended from white or light colored roof support structures.

Powder coating is environmentally responsible. Powder coat does not contribute to air pollution or ozone depletion, because it does not contain solvents with volatile organic compounds (VOCs). Powder coat releases virtually no VOCs into the atmosphere. Most powder coat overspray can be 100% recyclable or re-usable, eliminating waste going to the landfill or being released into the environment.

Dimensions, drawings and specifications available at:  
[www.draperinc.com/go/BBallBackstops.htm](http://www.draperinc.com/go/BBallBackstops.htm)

## Over 160 Colors Available!

*Printed color may vary from actual finish. Color samples available upon request.*



# DRAPER EZ-FOLD® BASKETBALL BACKSTOPS

*The single-stem, all-welded mainframe backstops with the only 25-year warranty in the industry!*

**A Stronger Overhead—** Draper's strength starts from the top. We supply all 4" O.D. 11 gauge overhead superstructure with all spans greater than 10' including bridge trussing.



*Independent testing shows that a 10' span of Draper's 4" overhead tube deflects up to 33% less than 3½" tube used by other manufacturers and 76% less when our standard bridge trussing is added.*

**B Strength in the Pivot—** Draper's backstop frame pivots on a 1¼" diameter solid steel shaft welded into the top of our T-Frame and secured in our ½" thick steel adjustable hanger. Each adjustable hanger allows for easy and precise leveling of the backstop and attaches to the superstructure with four ½", grade 5 bolts.



*Draper T-Frame hangers have been independently tested and found to support in excess of 25,000 lbs. Load Safety Factor 57 to 1.*

**C Beam Clamp—** Draper's beam clamp provides at least 7 square inches of beam flange contact area and are secured with two all-thread bolts at each attachment point.



*Draper's beam clamps have been tested to hold in excess of 25,900 lbs. Load Safety Factor 94 to 1.*

**D Precision Welding—** All Draper welders have been tested and certified to meet the requirements of American Welding Society (AWS) D1.1 Structural Welding Code ensuring quality fabrication and structural integrity.



**E Custom Built for Your Gymnasium—** Draper custom designs each backstop so the lateral sway braces intersect the main mast at approximately 54" above the goal (18" above the backboard) to ensure maximum rigidity. Draper does not use stock assemblies and simply make them fit your gym.



*Calculations indicate that Draper T-Frames deflect 36% less than competitors' models with sway braces attached 72" above the goal.*

**F UL Listed Winches—** All Draper winches are listed by Underwriters Laboratories and feature a ¾ HP motor, grooved drum, and cable tensioning system. Draper winches are protected by a five-year warranty to ensure years of trouble free operation.

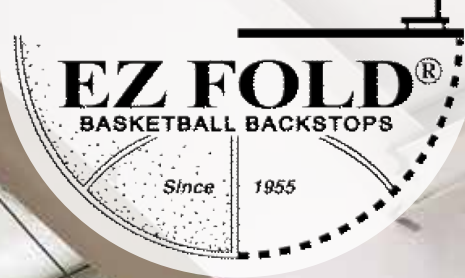


**G Aut-O-Loc 2 Safety Straps—** Draper's Aut-O-Loc 2™ Backstop Safety Strap is designed to engage instantly to protect players and spectators. Aut-O-Loc 2™ is actuated by speed or inertia in order to stop a load from falling due to a sudden failure in the backstop lifting system. Draper Safety Straps are covered by a five-year warranty.



*New Castle YMCA, New Castle, IN.  
Architect: Architectural Alliance, Indianapolis, IN.  
Photography: Wayne Williams, Indianapolis, IN.*

For more information on EZ Fold, go to:  
[www.draperinc.com/go/WhyEZFold.htm](http://www.draperinc.com/go/WhyEZFold.htm)



G

**H Adjustable Goal Brace—** Draper's adjustable goal brace connects the goal directly to T-frame to remove stress from the backboard and features telescopic members to adjust the length as requires. Adjustable length assures a perfectly plumb backboard. Use of a goal brace allows Draper to offer a lifetime warranty on any backboard.



**I Upper Bank Hanger—** Draper's upper bank hanger is designed to keep the backboard plumb and level even with the goal removed. Our bank hanger extends the backboard to the same distance as our height adjuster allowing for easy addition of this feature after the initial installation.



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# CEILING-SUSPENDED, FORWARD-FOLDING BACKSTOPS

## EZ-FOLD TF-20

- Front-braced, folds forward
- Fully-welded construction to attachment heights up to 28'4"
- Bolt-together construction above 28'4"
- Electric winch required for installations over 28'4"



*TF-20 Forward-Folding Backstops at Iowa State University, Ames, IA. Architect: RDG Planning & Design, Ames, IA. Photography: Paul Gates, Des Moines, IA.*

## EZ-FOLD TF-20S

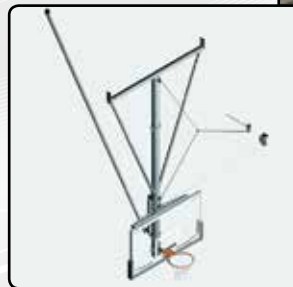
- Front-braced, folds forward
- Fully-welded construction to attachment heights up to 27'7"
- Bolt-together construction above 27'7"
- Bent stem, reduces space between pivot point and jackknife and may assist in avoiding obstructions
- Electric winch required for installations over 27'7"



*TF-20S Forward-Folding Backstops at Oswego (IL) East High School. Architect: Kluber, Skahan & Associates, Batavia, IL. Photography: Wayne Williams, Indianapolis, IN.*

## EZ-FOLD TF-20J

- Rear-braced, folds forward
  - Fully-welded construction to attachment heights up to 28'4"
  - Bolt-together construction above 28'4"
  - Electric winch required for installations over 28'4"
  - Features Draper's exclusive "hammer lock"
- The hammer lock is a stem-weight actuated positive latch. Securely locks your backstop into playing position. Stem weight eliminates need for supplemental cable retractors or stretch cords.



*TF-20J with bolt together construction, Centegra Health Bridge Fitness Center, Huntley, IL. Architect: PSA-Dewberry, Inc. Chicago, IL. Photography: Rich Sistos, Itasca, IL.*

Dimensions, drawings and specifications available at:  
[www.draperinc.com/go/CeilingSusFwdFold.htm](http://www.draperinc.com/go/CeilingSusFwdFold.htm)

# CEILING-SUSPENDED, REAR-FOLDING BACKSTOPS

## EZ-FOLD TB-25

- Rear-braced, folds to back
- Fully-welded construction to attachment heights up to 28'4"
- Bolt-together construction above 28'4"
- Electric winch required for installations over 28'4"



*TB-25 at Milpitas Sports Center, Milpitas, CA.  
Architect: Grossman Design Group, San Francisco, CA.  
Photography: Andrew McKinney, San Francisco, CA.*

## EZ-FOLD TB-25S

- Rear-braced, folds to back
- Fully-welded construction to attachment heights up to 27'7"
- Bolt-together construction above 27'7"
- Bent stem reduces space between pivot point, jackknife and may assist in avoiding obstructions
- Electric winch required for installations over 27'7"



*TB-25S-B at Christian Academy of Indiana, New Albany, IN.  
Architect: MECA Design Group, Greenwood, IN.  
Photography: Wayne Williams, Indianapolis, IN.*

## EZ-FOLD TB-25R

- Rear-braced, folds to back
- Fully-welded construction to attachment heights up to 28'4"
- Bolt-together construction above 28'4"
- Top of T-Frame mounted to heavy-duty trolley assemblies that roll on I-Beam tracks
- Top of T-Frame rolls forward as backstop folds back, which allows the use of rear folding backstops at locations closer to walls or other obstructions
- Electric winch required



*TB-25R at Wheaton Academy, West Chicago, IL.  
Architect: Jaeger, Nickola & Associates, LTD, Park Ridge, IL.  
Photography: Rich Sistos, Itasca, IL.*

Dimensions, drawings and specifications available at:  
[www.draperinc.com/go/CeilingSusRearFold.htm](http://www.draperinc.com/go/CeilingSusRearFold.htm)

# CEILING-SUSPENDED, SIDE-FOLDING BACKSTOPS

## EZ-FOLD TBS-26B

- Bolt-together mainframe with single brace located back or front as required
- Side-braced, specify left or right side, folds toward side brace

Dimensions, drawings and specifications available at:

[www.draperinc.com/go/Backstop\\_CS\\_SF.htm](http://www.draperinc.com/go/Backstop_CS_SF.htm)



*EZ Fold TBS-26-B folds to the side and out of the way of other sports activities. West Ottawa High School, Holland, MI.  
Architect: Design+, Grand Rapids, MI.  
Photography: Wayne Williams, Indianapolis, IN.*

# CEILING-SUSPENDED, STATIONARY BACKSTOPS

## EZ-FOLD TS-21

- Rear- or front-braced, stationary
- Available with fully-welded construction to attachment heights up to 28'4"
- Bolt-together construction only above 28'4"

Dimensions, drawings and specifications available at:

[www.draperinc.com/go/Backstops\\_CS\\_Stationary.htm](http://www.draperinc.com/go/Backstops_CS_Stationary.htm)



*EZ Fold TS-21-B with rear brace. Sulphur (LA) High School, 9th grade campus. Randall D. Broussard Architect LLC.  
Photography: © Barry Champagne, Houston, TX.*

## EZ-FOLD TS-22

- Horizontal back-braced to wall
- Available with fully-welded construction to attachment heights up to 28'4"
- Bolt-together construction only above 28'4"

Dimensions, drawings and specifications available at:

[www.draperinc.com/go/Backstops\\_CS\\_Stationary.htm](http://www.draperinc.com/go/Backstops_CS_Stationary.htm)

# CEILING-SUSPENDED, DOUBLE-DROP BACKSTOPS

Six models to meet any specification. Same quality construction and features as our T-Series in traditional H-Frame designs.

**DDTF-20** Front-braced, folds forward

**DDTF-20J** Rear-braced, folds forward

**DDTB-25** Rear-braced, folds to back

**DDTB-25C** Compact, rear-braced, folds to back

**DDTS-21** Ceiling-braced, stationary

**DDTS-22** Wall-braced, stationary

Dimensions, drawings and specifications available at:

[www.draperinc.com/go/Backstops\\_CS\\_DD.htm](http://www.draperinc.com/go/Backstops_CS_DD.htm)



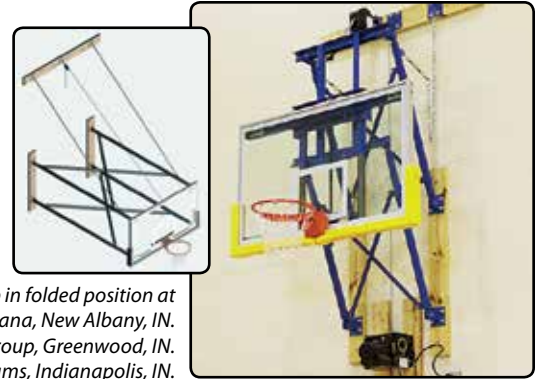
*DDTS-21 Ceiling-braced, Stationary Backstop at Owen County Family YMCA, Spencer, IN. Architect: MSKTD & Associates, Inc., Indianapolis, IN.  
Photography: Wayne Williams, Indianapolis, IN.*



# WALL-MOUNTED BACKSTOPS

## DUW UP-FOLDING

- Folds upward to store nearly flat against wall
- Steel tubing frame system
- Two ¼" welded-link chains support unit in playing position
- Manual or electric winch operated



*DUW Up-Folding Backstop in folded position at Christian Academy of Indiana, New Albany, IN. Architect: MECA Design Group, Greenwood, IN. Photography: Wayne Williams, Indianapolis, IN.*

## DGW SIDE-FOLDING

- Folds to either side nearly flat against wall
- Steel tubing frame system
- Telescopic diagonal brace provides locking device in play or stored positions
- Threaded pin releases diagonal locking brace



*Centegra Health Bridge Fitness Center, Huntley, IL. Architect: PSA-Dewberry, Inc., Chicago, IL. Photography: Rich Sistos, Itasca, IL.*

## DGW-E ELECTRIC SIDE-FOLDING

- Same quality design as DGW Side-Folding Wall Mounted backstop
- Electrically folds using a 115 volt linear actuator with integral limit switches

## SW STATIONARY

- Steel tubing frame system
- For units over 3' from the wall or with a height adjuster, a pair of ¼" chain supports are added (shown at right)



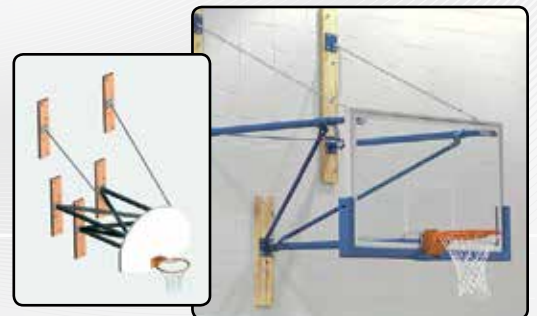
*SW Stationary Backstop at Centennial Middle School, South Lyon, MI. Architect: Integrated Design Solutions, LLC, Troy, MI. Photography: Wayne Williams, Indianapolis, IN.*

## SWD STATIONARY

- Stationary wall mount
- Direct-mount goal brace

## CM STATIONARY COLUMN MOUNTED

- Practical solution for side courts or shooting stations in metal buildings
- May be mounted to most straight or sloped columns with exposed flange
- For use with fan shaped backboards only
- Available with or without height adjuster
- Draper recommends padding column to which CM is attached



*SWD Stationary Backstop at Sulphur (LA) High School, 9th grade campus. Randall D. Broussard, Architect LLC. Photography: © Barry Champagne, Houston, TX.*

Dimensions, drawings and specifications available at:  
[www.draperinc.com/go/WallMounted.htm](http://www.draperinc.com/go/WallMounted.htm)

# BASKETBALL BACKBOARDS

## 503136 Rectangular Glass 72" x 42"

- Fully tempered 1/2" glass with official white target and border permanently fired into glass
- Frame constructed of extruded brushed aluminum
- Only for backstop structures with goal brace direct goal attachments

## 503137 Rectangular Glass 54" x 40"

- Same features as 503136 in a smaller size

## 503138 EZ Strut Bank™ 72" x 42"

- Same features as 503136 with additional vertical strut to relieve stress on glass for slam dunks
- Goal is bolted to a plate welded to bottom of strut for maximum strength
- Only for backstop structures with four-corner backboard mounting

## 503139 Rectangular Glass Conversion 72" x 42"

- Replaces fan shaped backboards
- Same features as 503136 with all required conversion framework attached to backboard
- Incorporates a horizontal member which bolts to goal for maximum strength

## 503145 Rectangular Fiberglass 72" x 42"

- Molded from high strength fiberglass with ribs and heavy flanges for maximum rigidity
- White finish with permanently silk screened, 2" wide orange perimeter and target area markings
- 20" x 35" backboard mounting dimensions
- Weatherproof for indoor or outdoor use

## 503140 Rectangular Wood 72" x 42"

- Finest wood backboard available
- 55 pcf density solid laminated wood core with eggshell white polyurethane face to resist abrasion
- Border, target markings part of laminate to prevent wear

## 503143 Fan Aluminum 54" x 36"

- White finish with orange border and target
- Lifetime Warranty

## 503148 Fan Fiberglass 54" x 39"

- Constructed of high quality resins and fiberglass for years of maintenance-free service
- Target and borders are applied with high-gloss gel coat



503136



503140

503145



503148

NOTE: 72" x 48" backboards are available for renovations and replacements.

**Limited Lifetime Warranty on all backboards incorporating the EZ Fold Adjustable Goal Brace.**

## SHOT CLOCK BRACKETS

Draper's universal shot clock brackets securely attach your shot clocks to virtually any single post style backstop. Brackets include a pair of mounting tubes, mast saddles and U-bolts. Draper also offers shot clock brackets for portable backstops (see page 13).

### 503005 Shot Clock Bracket for 6" OD Mast Tubes

### 503006 Shot Clock Bracket for 6 5/8" OD Mast Tubes



## BACKBOARD EDGE PADDING

Draper recommends all rectangular backboards be fitted with edge padding to meet rule requirements.

### 503253 2" Wide Safe-edge Padding

- Grey, open cell foam material applied easily with high strength adhesive

### 5032XX\* Bolt-on Padding

- Available in 12 colors
- Bolts onto lower edges of backboard. It has a molded-in steel track and an **eight-year warranty** on indoor installations.

\*XX - Indicates Color (02-Marine/Columbia Blue, 04-Red/Scarlet, 06-Orange, 07-Yellow, 08-Grey, 09-Maroon, 10-Dark/Royal Blue, 11-Black, 12-Purple, 13-Forest Green, 14-Kelly Green, 15-Navy Blue)



# BASKETBALL GOALS

## 503040 180° Breakaway Goal

- Consistent breakaway pressure during aggressive slam dunks
- Ring assembly floats on chromium ball bearings for smooth any-direction flexibility
- Tube-tie net attachment system allows easy net installation
- Pressure release mechanism is field adjustable



503040

## 503576 Breakaway Goal

- Official breakaway goal withstands shock loads due to a player slam dunking
- Rim deflects down when a load of 230 lbs. is applied and returns to the playing position once the load is removed
- Shock absorbing, release/return mechanism fully concealed in protective cover



503576

## 503581 Tube Tie Breakaway

- Adjustable tension breakaway goal with tube-tie net attachment system—virtually fail safe
- Rim deflects down when a load of 230 lbs. is applied, and returns to the playing position once the load is removed
- Adjustable shock absorbing, release/return mechanism is concealed within a fully protective cover



503581

## 503570 Stationary Goal

- Official competition goal fits most backboards
- Rim is supported by  $\frac{7}{16}$ " diameter steel rod welded to the rim and mounting plate



503570

## 503572 Heavy-Duty Stationary Goal

- Same features as 503570 but with  $\frac{5}{8}$ " dia. support brace to withstand up to 800 lbs

All goals above meet NCAA and NFHS specifications. Includes hardware and net to fit 48" and 42" bank.  
Dimensions, drawings and specifications available at: [www.draperinc.com/go/BasketballGoal.htm](http://www.draperinc.com/go/BasketballGoal.htm)

# BACKBOARD HEIGHT ADJUSTERS

- For rectangular or fan-shaped backboards and goals
- Features direct (8' - 10') goal attachment
- All Draper backboards have a limited lifetime warranty when used with our height adjuster
- Includes a self-adhesive height scale graduated in 1" increments and labeled at 6" intervals

Dimensions, drawings and specifications available at:  
[www.draperinc.com/go/EZFoldAccessories.htm](http://www.draperinc.com/go/EZFoldAccessories.htm)

## MOTORIZED HEIGHT ADJUSTERS

- Electric linear actuator provides smooth reversible motion
- Linear actuator includes cam style limit switches that allow 24" of travel
- Linear actuator assembly is bolted in place and easily removed for conversion to manual operation

**503093** Motorized, for rectangular bank. Operated with Key Switch

**503097** Motorized, for fan bank. Operated with Key Switch

**503095** Motorized, for rectangular bank with wireless remote control

**503098** Motorized, for fan bank with wireless remote control

**503096** Motorized, for rectangular bank with EZ Stick Power Wand

**503099** Motorized, for fan bank with EZ Stick Power Wand

**503104** Motorized, for rectangular bank with control system operation

**503105** Motorized, for fan bank with control system operation

## MANUAL HEIGHT ADJUSTERS

Operated with a removable awning-style crank handle and actuated via a  $\frac{3}{4}$ "-6 Acme threaded rod. Its actuator rod assembly bolts in place and can be removed for conversion to electric operation.

**503092** Manual, for rectangular backboards

**503094** Manual, for fan backboards



Motorized Height Adjuster can be raised and lowered to allow 24" of travel.



**503003**

### Portable Height Adjuster Operator

A compact, cordless, reversible electric operator for use with the Manual Height Adjuster. Makes operation safe and easy.

# ACCESSORIES & CONTROLS

## EZ PAD™ Plus Control System

EZ Pad Plus is a moderately priced but loaded with features you expect from more expensive high-end controls. EZ Pad Plus eliminates keys and allows operation of up to 128 gym equipment devices, as well 32 on/off items.



- Items may be operated individually or simultaneously as a member of groups of up to 8 items
- Up to 10 different groups per EZ-Pad Plus touch pad
- Touch pad is 12 VDC and features a 3 line LCD display for user friendliness
- Field programmed with multi-level password protection to insure only and authorized persons can operate

## Smart Gym Control System

An alternative to a key switch, our electronic touch screen enables control of all Draper electrically operated gym equipment, in excess of 1000 devices. Can operate lighting, scoreboards and bleachers and virtually any other electrical device.



- **Safety First**—Only the keeper of the programmable four-digit security code can access the system
- **Save Money**—By decreasing number of lengthy wire and conduit runs. Smart Gym touch panel and relay panels operate on 24 volt current. System program allows for shared circuits
- **Save Time**—Run multiple devices simultaneously reducing set up time for gym classes or games

## 503285 Motorized Winch

- Sealed oil bath gear box with all metal gears with 3/4 hp direct drive motor
- Entire Winch Assembly is UL listed
- Delivers 1,250 lbs. (567kg) of vertical line pull and holds backstop in any position
- Automatic limit switches control travel distance in either direction
- Grooved cable drum and pressure roller ensure proper cable spooling
- Operated with standard 3 position momentary contact key switch or any Draper Control System
- **Five-year warranty**



## 503229 Aut-O-Loc 2™ Safety Strap

Safety Straps are recommended on all folding backstops.

- Designed to engage instantly whenever a cable or supporting structure fails
- Actuated by speed or inertia to stop load from falling due to a sudden failure or any increase in speed
- Rated for a 1,000 lbs (453kg) load and will withstand a 1,750 lbs (794kg) without any component failure
- Includes maximum extension indicator and breakaway loop to indicate engagement
- **Five-year warranty**



## 503060 EZ Power—Wireless Remote Control

Eliminate wall boxes and individual key switches. EZ Power Wireless Remote Control capable of operating up to 99 individual electric motor winches.

- Operating range is approximately 100'
- Requires item **503061 99-station Transmitter**



## 503286 Manual Winch

- For backstops with attachment heights under 26' (792cm)
- Features maintenance-free sealed gear case with a 40:1 worm gear ratio to provide 1,000 lbs (454 kg) vertical lifting capacity
- The cable drum has a 4" (102mm) diameter and is grooved for 1/4" (6mm), 7 x 19 aircraft cable to provide proper spooling
- Cable drum is enclosed by removable cover
- Winch can be operated with standard removable handle or optional 503249 Electric Portable Operator
- **Five-year warranty**



## 503249 Portable Operator

- A compact heavy-duty reversible electric operator for use with 503286 manual winch
- Optionally available with 503048 Fifty Foot Power Cord

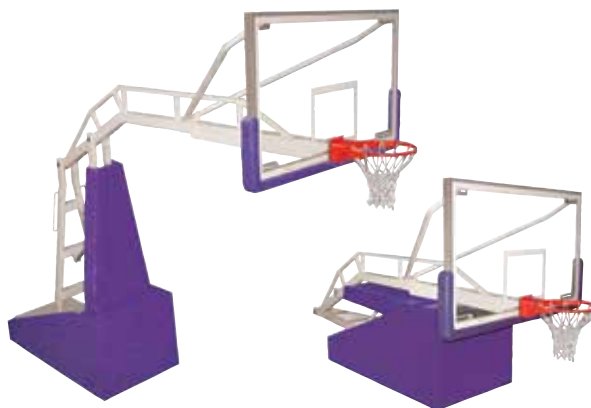


Dimensions, drawings and specifications available at:  
[www.draperinc.com/go/EZFoldAccessories.htm](http://www.draperinc.com/go/EZFoldAccessories.htm)

# PORTABLE BACKSTOP SYSTEMS

## 503008 Competition Portable, 96" Extension Elite

Draper's Elite Competition Portable Backstop's heavy-duty trussed extension beam provides extreme rigidity and strength for high school and collegiate competition. Backstop features, official size 72" x 42" glass backboard, direct mount 180° breakaway goal, bolt-on backboard edge pad, base and boom padding and standard rear anchor to meet all NCAA and NFHS rules for competition. Low maintenance spring aided lifting mechanism and convenient handles allow for fast and easy one person set up and height adjustment. Goal height is adjustable from 8' to 10' in 6" increments. Stabilizing front foot pads adjust independently for leveling. Backstop has 1,200 lbs. ballast and is transported on integral 8" diameter non-marking, non-skid wheels.



## 503018 Side Court Portable, 66" Extension

Side Court Portable Backstop has many of the same features as our Elite Competition Portable. Backstop has a 66" long, 4" tubular extension beam, 72" x 42" Glass Backboard, 180° Breakaway Goal, Bolt-On Edge Padding and base and boom pads provide the look and feel of a full competition backstop, but is designed for side-court use or areas where space is limited. Low maintenance spring aided lifting mechanism and convenient handles allow for fast and easy one person set up and height adjustment from 8' to 10' in 6" increments. Front foot pads adjust independently for leveling. Backstop has 800 lbs. ballast and 8" diameter non-marking, non-skid wheels. Rear Anchor Kit is optional.



## 503016 Recreational Portable, 54" Extension

The same quality features and attention to detail found in our larger portables are found in our smallest spring assisted portable backstop that is designed to fit small facilities. This backstop is ideal for use in recreation centers, practice courts, shooting stations, churches or anywhere a durable, lighter-duty portable backstop is desired. Backstop features a 54" long, 4" tubular extension beam, 54 x 42" Glass Backboard, Breakaway Goal, Bolt-On Edge Padding and base and boom pads. Low maintenance spring aided lifting mechanism and convenient handles allow for fast and easy one person set up and height adjustment from 8' to 10' in 6" increments. Front foot pads adjust independently for leveling. Backstop has 800 lbs. ballast and 8" diameter non-marking, non-skid wheels. Rear Anchor Kit is optional.



## PORTABLE BACKSTOP ACCESSORIES

### 503010 Rear Anchor Kit

Rear Anchor kit for use on 503018 or 503016 portable backstops securely attaches backstop to the floor to eliminate any chance of tipping.

### 503011 Shot Clock Brackets

Add single sided shot clocks to portable backstops with these nearly universal brackets designed specifically for Draper Portable Backstops.

Dimensions, drawings and specifications available at:

[www.draperinc.com/go/PortableBBall.htm](http://www.draperinc.com/go/PortableBBall.htm)

# WALL PADS

**Draper EcoVision™ Wall Pads are both GREENGUARD® Gold Certified and meet or exceed the requirements of ASTM F 2440-11, Standard specification for indoor wall padding.**

Only Draper offers a full line of wall pads that provide maximum player protection and that are manufactured using materials that contribute to a safer and healthier indoor environment for school age children. All Draper wall pads meet ASTM F2440-11 standard specification for indoor wall padding and have been certified to meet the strictest indoor air quality standards, GREENGUARD® Gold. Wall pads should be installed on rigid surfaces that are within ten feet of activity areas.

Draper wall pads are constructed with urea-formaldehyde free oriented strand backer boards bonded to high IFD flexible foam cushioning materials. Foam is available in a variety of thickness to meet any project specification. Pads are fully wrapped with attractive and durable 14 oz. vinyl-coated polyester covering enhanced by a leather-like emboss pattern. Pads can be made in virtually any shape or size to cover corners, columns, beams, doors and stages. Pads can be provided with a variety of attachment methods.



## EcoVision™ Standard Pads

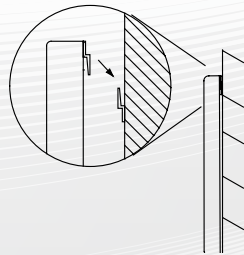
Provide maximum impact protection for activity areas, meet ASTM F2440-11 standard specification and are GreenGuard Children and Schools Certified.

## EcoVision™ Class-A Flame Retardant Pads

Same impact protection, GreenGuard Children and Schools certified materials, and the added benefit of enhanced flame resistance. These pads have been tested as a singular unit and given a Class-A rating in accordance with ASTM-E84 and NFPA 255 test procedures. Draper Class-A pads also meet the requirements of NFPA 286 standard methods of fire test for evaluation contribution of wall and ceiling finish to room fire growth.

### Mounting options available:

- "Z"—Clips at the top and bottom for wall mounting pads. Edges of pad are flush with the wood backer. Eliminates 1" lip
- "Z"—Clip at top and 1" nailing strip at the bottom
- Channel System: channel attaches to wall clips; trims out top and bottom lip; remove single pads as needed for repair



*Wall Pad Photos: (Top) University of Kentucky Women's Gym, Lexington, KY. Architect: Sherman Carter Barnhart, Lexington, KY. Photography: Kenneth Hayden, Louisville, KY. (2nd from top) Aurora Christian Schools, Aurora, IL. Architect: Aspen Group, Frankfort, IL. (2nd from bottom) Mount Comfort Elementary School, Greenfield, IN. Architect: Schmidt Associates, Indianapolis, IN. Photography: Wayne Williams, Indianapolis, IN. (Bottom) Batavia High School, Batavia, IL. Architect: Arcon Associates, Lombard, IL. Photography: Rick Sistos, Itasca, IL.*

Dimensions, drawings, specifications and color options available at: [www.draperinc.com/go/WallPad.htm](http://www.draperinc.com/go/WallPad.htm)

# GRAPHIC WALL PADS

Print your mascot, full-color photo, sponsor's advertising, or any art you choose on one or multiple pads. Graphic Wall Pads are limited only by your imagination!



Want to make an impression in your gymnasium or physical education spaces? Draper Graphic Wall Pads are the best way to do just that! Choose from a wide range of pad colors. Send us your logo and graphics or custom artwork is available at an additional charge.

Graphics are printed directly onto the wall pads. The Grand format printer utilizes ultraviolet curable inks safe for the environment and with the curing process the ink has superior adhesion properties. Inferior competitor graphic pads that are silk-screened or made using vinyl stickers are just not the same.

- Art is sharp and clear from any distance
- Large format digital image reproduction
- Printed using 4-color process and durable UV inks
- Images are not silk-screened or made with vinyl tape
- Available in standard and Class A Flame Retardant versions
- Images are printed on 14 oz. vinyl coated polyester with a leather-like emboss so they perfectly match adjacent non-graphic pads
- All designs are sent to the client for final approval prior to printing

Graphic Wall Pad Photos: (Top) Milroy Elementary School, Milroy, IN. Photography: Wayne Williams, Indianapolis, IN. (2nd from top) Wheelersburg K-12 School, Wheelersburg, OH. Architect: Tanner Stone & Co., Portsmouth, OH. Photography: Javier Jarrin, Cincinnati, OH. (Bottom) Harris Elementary School, Greenfield, IN. Photography: Wayne Williams, Indianapolis, IN.

## WALL PAD CUT-OUT TRIM KITS

Draper Wall Pad Cut-Out Trim Kits provide a neat and clean answer to accessing receptacles and switches. Simply make the necessary field cut-out then insert and staple the molded rubber trim kit. Manufactured from fire-resistant molded rubber and sized to accommodate any wall pad with the standard 2<sup>7</sup>/<sub>16</sub>" thickness. Wall Pad Cut-Out Trim Kits are available in gray or black and in two sizes—3" x 5" for single switches or receptacles or 7" x 7" for double gang electrical boxes and standard sized fire alarms.



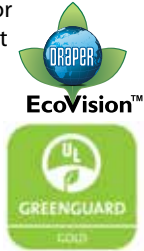
- 504690 Gray Single Switch
- 504691 Black Single Switch
- 504700 Gray Double Switch
- 504701 Black Double Switch

Dimensions, drawings, specifications and color options available at: [www.draperinc.com/go/GraphicWallPad.htm](http://www.draperinc.com/go/GraphicWallPad.htm)

# GYM DIVIDERS

Draper Gym Dividers are constructed of the highest quality reinforced vinyl. Select a vinyl-coated polyester mesh to facilitate air flow, a tough solid vinyl to provide a visual barrier between play areas or a combination of mesh on top and solid on the bottom.

Draper 18 oz. divider curtain vinyl and divider curtain mesh are certified by GREENGUARD® to meet the requirements for GREENGUARD® Gold Certification, the most stringent and strictest off-gassing standards. GREENGUARD® Gold Certification evaluates the sensitive nature of school populations combined with the unique building characteristics found in schools, and presents the most rigorous product emission standards. GREENGUARD® Gold Certified products are low emitting and contribute to a safe and healthier indoor environment for school-aged children.



- All hardware is heavy-gauge stampings or of welded construction
- All seams are electronically welded with a 1" full contact weld
- Available in a wide variety of vinyl and mesh colors



University of Arizona – Jefferson Gym, Tucson, AZ.  
Architect: TMP/Breckenridge Group, Tucson, AZ.  
Photography: Steven Meckler, Tucson, AZ.

## Gym Divider Vinyl and Mesh Specifications

- **General:** Solid fabric is a durable vinyl-coated polyester. Mesh fabrics are vinyl-coated polyester mesh woven from .025 yarn in a one-over-one weave pattern. The yarn is composed of 80% pigmented vinyl and 20%, 840 denier polyester.
- **Weight:** Solid fabrics average 18 oz. (optionally available: avg. 22 oz. per sq. yard). Mesh averages 9.0 oz. per sq. yard
- **Resistance to Rot & Mildew:** Excellent
- **Ultraviolet Resistance:** Excellent
- **Flammability:** Rated as self extinguishing by the California State Fire Code (solid: f-31.5 and f-140; mesh: f-230) and Class A Rated in accordance with requirements of NFPA-101

## 504301 Curtain Lok™

### Divider Curtain Safety Device

Draper's innovative independent safety device locks drive shaft operated curtains. Based on the same technology as our Aut-O-Loc 2 Safety Strap (see page 12), the Curtain Lok is directly speed sensitive and instantly locks the curtain drive shaft whenever the speed exceeds 1½' per second.



- The Curtain Lok is compatible with Draper Fold-Up, Roll-Up, Radius-Fold and Top-Roll Divider Curtains, as well as similar style curtains from other manufacturers

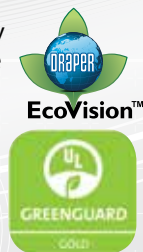
Dimensions, drawings, specifications available at:  
[www.draperinc.com/go/GymDivider.htm](http://www.draperinc.com/go/GymDivider.htm)

## WALK-DRAW GYM DIVIDER

A Walk-Draw Gym Divider is the most cost-effective way to divide floor space in a recreational facility. The idea is simple: suspend the vinyl curtain from an overhead track. While walking, pull the curtain into place, or pull it back into its compact storage area. Curtain always moves at operator's pace because ball bearing wheels ensure a smooth gliding action. Draper designs tracks to accommodate the shape and size of sports areas: box in a court with four curtains or radius the track to encircle the area.

Select a solid vinyl, a vinyl-coated mesh or a combination of both. Several solid vinyl colors are readily available.

- In the stacked position, the Walk-Draw requires only a 6" clearance on either side of the track's center line
- Total hanging weight is, on average ½ lb. per sq. ft.
- Stacking space is 1⅝" per foot of divider
- Track supports do not exceed 8' on center



Hellstern Middle School, Springdale, AR. Architect: Wittenberg, Delony & Davidson Architects, Little Rock, AR. Photography © Curtis Photographics, Memphis, TN.



Dimensions, drawings and specifications available at:  
[www.draperinc.com/go/WalkDrawDivider.htm](http://www.draperinc.com/go/WalkDrawDivider.htm)

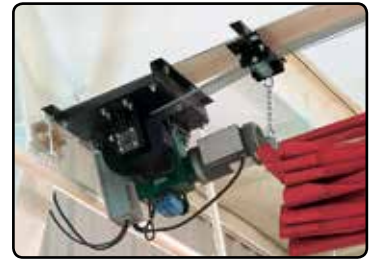


# RIDGE-FOLD GYM DIVIDER

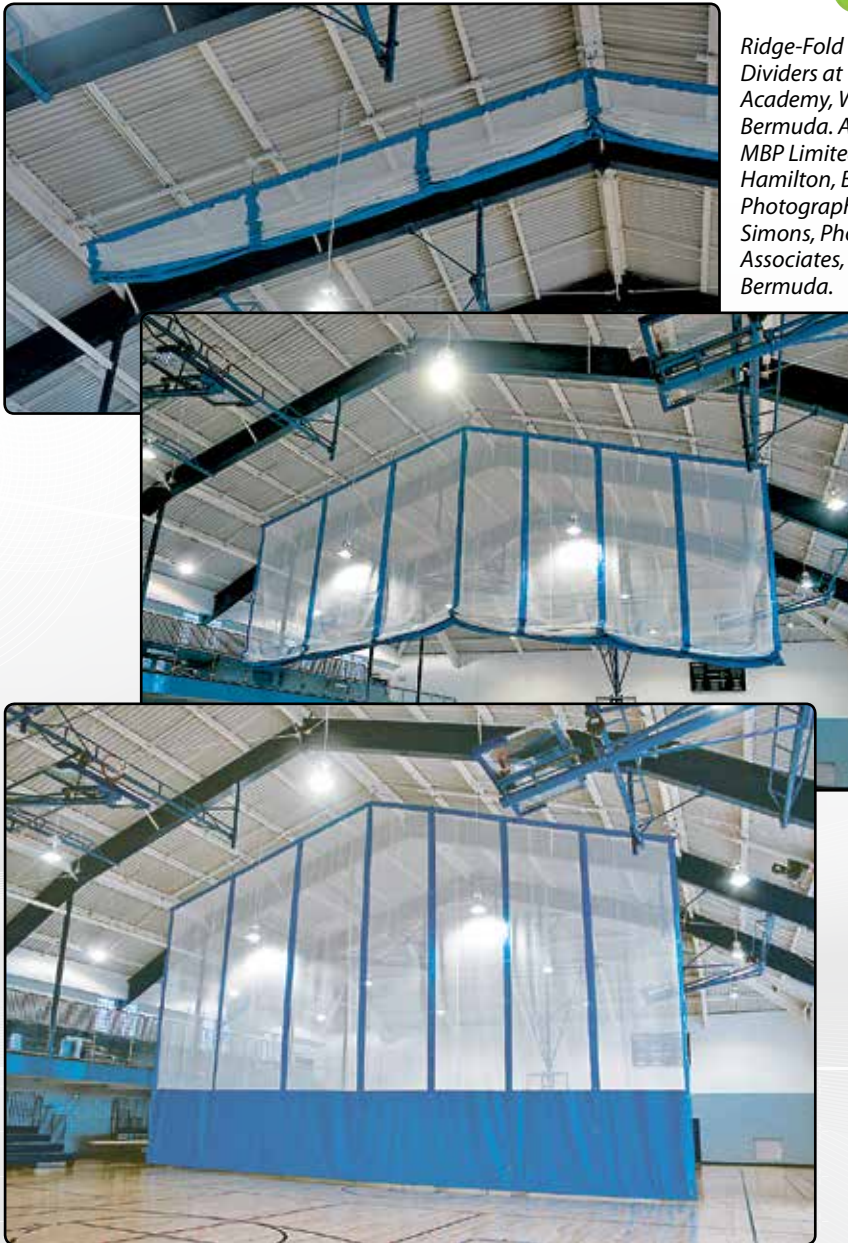
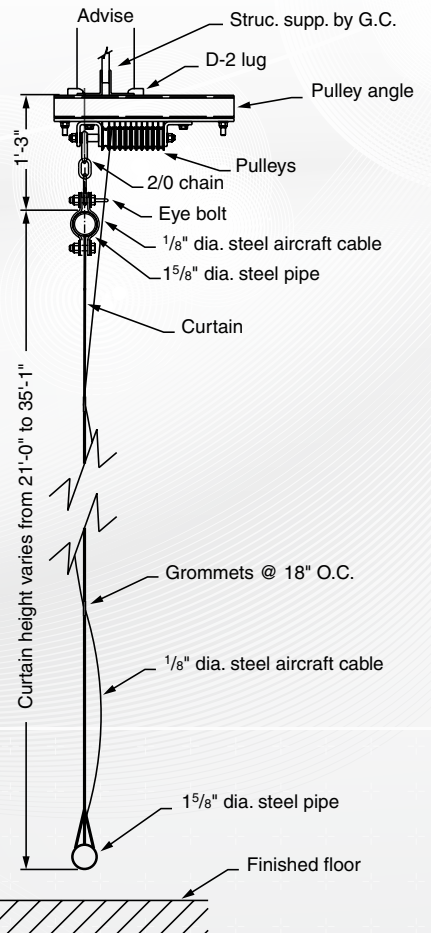
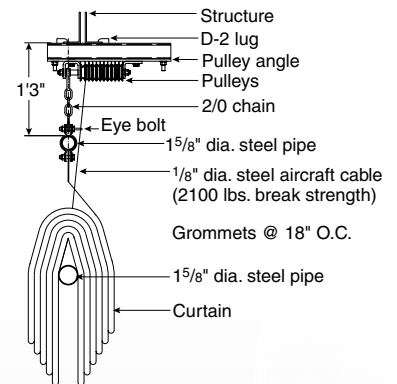
A Draper Ridge-Fold Gym Divider installs and folds up compactly along the slope of the roof. The accordion fold-up action is achieved by lift cables passing through grommets as the bottom tube is raised. If the roof of your building peaks in the center or to one side, then a Ridge-Fold is the gym divider for you. Tell us the height of the peak and eaves and desired curtain width.

- Draper uses hinged pipe in the top and bottom pockets, allowing curtain to follow contour of building
- Simple to install. Hoist cables are pre-attached to the drums at the motor end: guide them to the appropriate pulley, lace down through the grommets and attach to concealed batten tube in the bottom pocket
- Engineered for reliability. Outer edge hems are triple turned with double welds.

Each hoist cable terminates at an individual drum that is part of the C-Face motor and winch system. The individual drums are sized in variable ratios, allowing the divider to contour to the roof structure.



Ridge-Fold Gym Dividers at Warwick Academy, Warwick, Bermuda. Architect: MBP Limited, Hamilton, Bermuda. Photography © Art Simons, Photographic Associates, Pembroke, Bermuda.



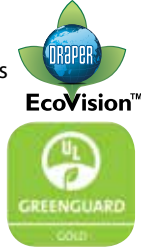
Dimensions, drawings and specifications available at:  
[www.draperinc.com/go/RidgeDivider.htm](http://www.draperinc.com/go/RidgeDivider.htm)

## FOLD-UP GYM DIVIDER

Choose Draper's Fold-Up Gym Divider for a reliable way to divide one area into two. Accordion fold-up action is accomplished by lift cables passing through grommets as the bottom tube is raised. It folds and unfolds without any horizontal cables, ropes or pulleys. It's engineered with heavy-gauge stampings or all-welded hardware.

Choose a Fold-Up gym divider made in either all solid vinyl, vinyl-coated polyester mesh or a combination of mesh on top and solid on bottom.

- Vertical seams
- Outer edge hems are triple turned with double welds
- Total hanging weight is, on average, ½ lb. per sq. ft.
- Stacking dimension is approximately 30"
- A Fold-Up divider can be made in virtually any size, but cannot be cutout for bleachers and doors
- A minimum of 6" of clearance is required between vertical edges and fixed objects, but we suggest you allow more space for walking around ends of divider



Dimensions, drawings and specifications available at:  
[www.draperinc.com/go/FoldUpDivider.htm](http://www.draperinc.com/go/FoldUpDivider.htm)



*Greenfield Central Junior High School, Greenfield, IN.  
 Architect: Odle, McGuire and Shook, Indianapolis, IN.  
 Photography: Wayne Williams, Indianapolis, IN.*

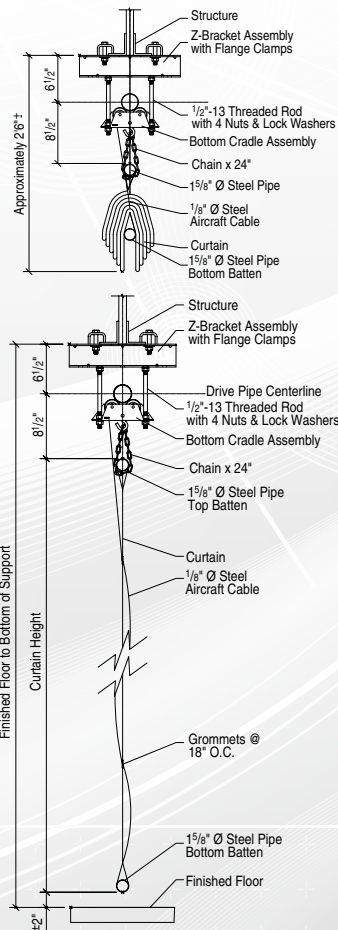
## RADIUS-FOLD GYM DIVIDER

Draper's Radius-Fold Gym Divider solves the problem of separating a perimeter running track from the playing courts inside a field house or multi-purpose facility. Draper achieves a curve with a single piece of curtain by segmenting the drive pipe with double universal joints. The accordion fold-up action is accomplished by lift cables passing through grommets as the bottom tube is raised.

- Folds/unfolds without horizontal cables, ropes or pulleys
- Curtain seams are vertical
- Outer edge hems are triple turned with double welds
- Total hanging weight is, on average, ½ pound per sq. ft.
- Minimum of 6" of clearance is required between vertical edges of adjoining curtains and fixed objects
- The stacking dimension is approximately 30"



*Avon High School, Avon, IN.  
 Architect: Gibraltar Design, Indianapolis, IN.  
 Photography: Wayne Williams, Indianapolis, IN.*



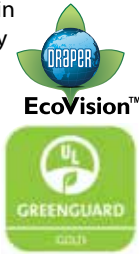
**For maximum safety, specify Draper's Curtain Lok on Fold-Up or Radius-Fold Gym Divider. See page 16 for details.**

Dimensions, drawings and specifications available at:  
[www.draperinc.com/go/RadiusDivider.htm](http://www.draperinc.com/go/RadiusDivider.htm)

# TOP-ROLL GYM DIVIDER

A Top-Roll Gym Divider is the ideal way to divide space in facilities with low ceiling heights. The curtain rolls neatly on the drive pipe so the stacking dimension is only 14".

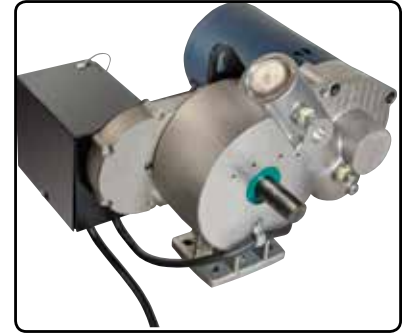
Draper's clean design does not require belts, cables or complicated torsion arms to operate the curtain. Our Top-Roll uses a single ¾ hp motor located on one end of curtain, which simplifies the wiring diagram and saves money on the electrical wiring.



- All electrical connections are made at and stay at ceiling level
- The motor is mounted externally allowing it to cool properly.
- Solid vinyl available in 18 oz. weight, with all horizontal welds. Any combination of mesh and vinyl height available. Total hanging weight is, on average, ¾ lb. per sq. ft.
- Outer edge hems are turned and welded to prevent fraying.
- Maximum width 100', maximum height 30'



Extra-wide carrier brackets with non-abrasive rollers.



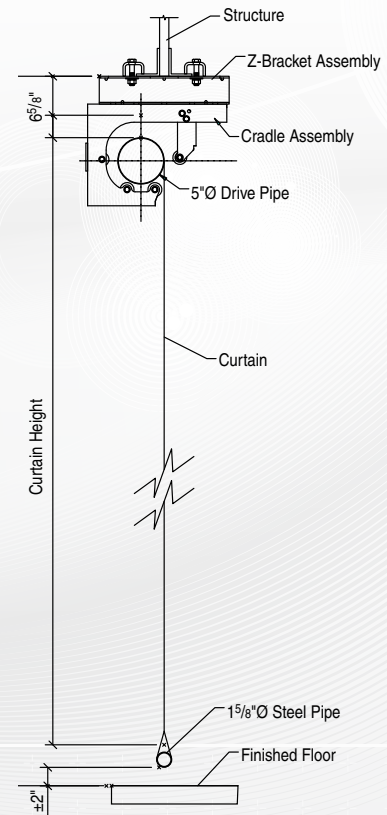
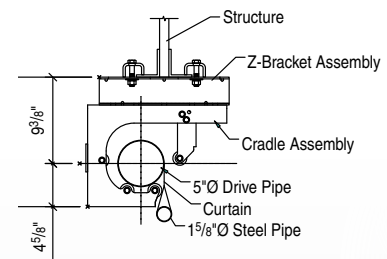
Electric winch provided with Fold-Up, Roll-Up, and Top-Roll gym dividers.



Blue Water YMCA, Port Huron, MI.  
Architect: TMP Associates, Inc., Bloomfield Hills, MI.  
Photography: Jill Brososky, Jeff Bell Photography, Ft Wayne, IN.



Wheelersburg K-12 School, Wheelersburg, OH.  
Architect: Tanner Stone & Co., Portsmouth, OH.  
Photography: Javier Jarrin, Cincinnati, OH.



**For maximum safety, specify Draper's Curtain Lok on Top-Roll Gym Divider. See page 16 for details.**

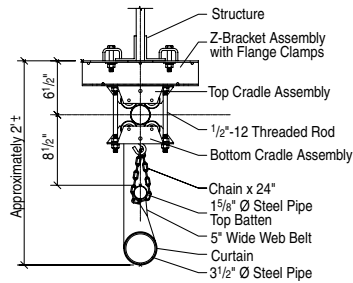
Dimensions, drawings and specifications available at:  
[www.draperinc.com/go/TopRollDivider.htm](http://www.draperinc.com/go/TopRollDivider.htm)

## ROLL-UP GYM DIVIDER

A Roll-Up gym divider is a convenient and simple way to divide an area. The curtain hangs from overhead supporting steel structures. Easy to operate: just turn a key, and the curtain unrolls as needed or rolls up for storage.

The white polyester webbing belts that guide the roll-up action are flexible and cut straight and true to insure proper wrapping of the belt onto the drive pipe. These thin, yet very strong belts take up less space as they wind onto the drive pipe, putting less strain on the motor.

- All hardware is heavy-gauge stamping or welded construction
- Vinyl-coated polyester material is available in 18 oz. and 22 oz.
- Total hanging weight is, on average, ½ lb. per sq. ft.
- Seams run horizontally the full width of the curtain
- The stacking dimension is approximately 2'
- Needs minimum of 6" of clearance between vertical edges and fixed objects



Dimensions, drawings and specifications available at:  
[www.draperinc.com/go/RollUpDivider.htm](http://www.draperinc.com/go/RollUpDivider.htm)



University of Alabama, Student Recreation Center, Tuscaloosa, AL. Collegiate Citation Winner of Physical-Education Facilities/Recreation Centers, Education Interiors Showcase, American School & University magazine, August 2006. Architect: TMP Associates, Inc., Bloomfield Hills, MI. Photography © Curtis Photographics, Memphis, TN.



For maximum safety, specify Draper's Curtain Lok on Roll-Up Gym Divider. See page 16 for details.

## PATRIOT MOTORIZED FLAG

This unique gym equipment product makes a dramatic presentation of the United States flag in any gymnasium. "Old Glory" appears at the touch of a switch or wireless transmitter. Standard product includes a sewn, nylon flag. Options include state flags or school banners, provided by customer.

The Patriot can display a flag either vertically **500101** or horizontally **500102**. Flag measures 12' x 18' with both mountings. The vertical or banner flag is housed in a 14'10" case, and the horizontal flag is housed in a 20'10" case.



Patriot Motorized flag at Knightstown High School (IN). Architect: R.W. Clinton & Associates, Inc., Richmond, IN. Photography: Wayne Williams, Indianapolis, IN.

# MAT LIFTING SYSTEMS

Store wrestling mats up off the floor with a Draper Mat Lifter. Three models: Single, Double or Sectional. Each Mat Lifter is constructed of a welded steel frame, with all drive and lifting mechanisms enclosed in a sheet metal housing.

- Stationary or traveling
- Raise and lower Mat Lifters with a key switch control. Limit switches control the range of motion
- Each Mat Lifter has a 210:1 ratio double reduction worm-worm gearbox attached to an instantly reversing 2 hp motor, operating with the choice of 208-, 230- or 460-volts in 3-phase. Includes a 6 lb./ft. electric safety brake
- 1 $\frac{7}{16}$ " diameter cold-finished steel drive shaft synchronizes cable drums
- The two steel lift cables are  $\frac{5}{16}$ " 6-strand, with 37 wires per strand and a fiber core
- Standard sling color is black; other colors are available
- Continuous straps wrap completely around mat to stop mat from falling should sling become torn. For safety purposes, the sling capacity governs the lift capacity of the system
- Mat Lifters weigh approximately 2,000 lbs.

## 502020 Single Mat Lifter

- Lifting, lowering speed is approximately 10 ft. per minute
- Supports a standard 45' x 45' wrestling mat (weighing approximately 1 lb./sq. ft.) with a 5-to-1 safety ratio

## 502021 Double Mat Lifter

- Lifting and lowering speed is approximately 5 ft. per minute
- Supports two 42' x 42' wrestling mats (weighing approximately 1 lb./sq. ft.) with a 5-to-1 safety ratio

Dimensions, drawings and specifications available at:

[www.draperinc.com/go/MatLifter.htm](http://www.draperinc.com/go/MatLifter.htm)

# SCOREBOARD LIFTER

Let Draper do the heavy lifting when it comes to your scoreboard! Draper can design a system to lift almost any scoreboard used in today's high school gymnasiums. Let us raise and lower your single sided or center mounted four faced scoreboard to change signage, routine service and maintenance or repair. No more need to set up scaffolding or use potentially dangerous lifts or ladders! Draper can handle any scoreboard up to 1,400 lbs.

All systems include properly sized heavy duty winch and one or more cable drums assemblies with integral safety locks. Motor and spool are drive shaft synchronized to insure even and level travel. Scoreboard is lifted by two or more  $\frac{3}{16}$ " - 7 x 19 galvanized aircraft cable, each with a 4000 lbs breaking strength for maximum safety. Draper can also provide optional industrial-grade cable management system and Aut-O-Lok 2 safety straps for added safety.

## 502019 Sectional Mat Lifter

- Lifting and lowering speed is approximately 10 ft. per minute
- Supports three 15' x 45' wrestling mats (weighing approximately 1 lb./sq. ft.) with a 5-to-1 safety ratio

## Traveling Kits

Move your mat from balcony or adjoining storage area to gym floor with a Traveling Kit. Mat travels at ceiling height, either end first or sideways and then lowers to the floor.

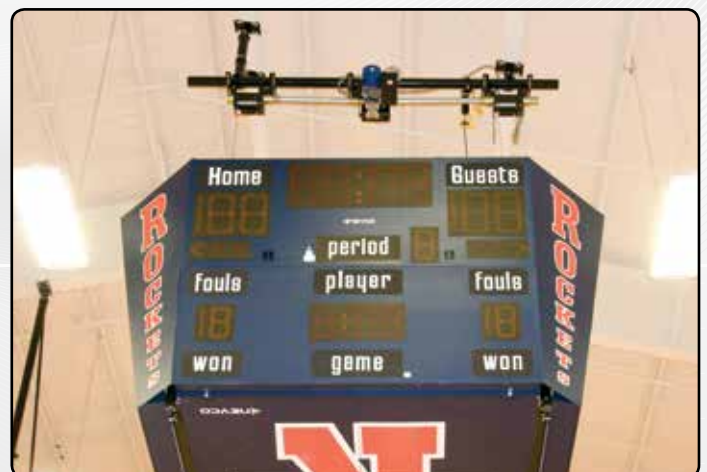
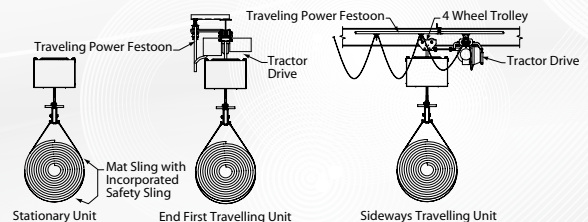
- Driven by  $\frac{1}{2}$  hp motor operating with choice of 208-, 230- or 460-volts in 3-phase attached to a 60:1 ratio gear box with non-pneumatic wheel(s)
- The End First Travel Kit has two 1-ton machined trolleys with festooning power cables
- Sideways Travel Kit has four half-ton machined trolleys with festooning power cables
- Motors, drive assembly and all control mechanisms are encased in a fireproof cover



502020



502019 (with Traveling Kit)



Rochester High School, Rochester, IL. Photography: Darrin McGowan, Rushville, IN

# OVERHEAD VOLLEYBALL SYSTEM (OVS)



Iowa State University, Ames, IA.  
Architect: RDG Planning & Design, Des Moines, IA. Photography: Paul Gates, Des Moines, IA

Adjustable protective UHMW stabilizing foot

**Draper's OVS Volleyball System stores at the ceiling with the net, antennas, boundary markers and pads attached.**

Draper's OVS Overhead Volleyball System is the ideal solution for facilities that need to rapidly set up for volleyball games. The OVS stores at the ceiling with the net, antennas, boundary markers and pads attached. Just turn the key switch to lower your volleyball system from the ceiling, set the stabilization feet and you are ready for competition.

The OVS Overhead Volleyball System combines the quality found in Draper's EZ-Fold basketball backstops with the features found across the Draper line of floor sleeve style volleyball systems. The OVS overhead superstructure attaches to the roof structure with the same high strength tube and clamps used on our backstops to insure a rigid design.

The system features 4" OD trussed vertical mast tubes that pivot on the same 1¼" solid steel shafts welded to the top tube and secured in our ½" thick steel adjustable hanger. Each vertical mast features an adjustable foot with a spherical shaped UHMW foot that protects your gym floor and insures stable posts and maximum net tension. System operates with a 1 HP winch and features Aut-O-Loc 2 safety straps on each vertical mast.

Each vertical mast includes an aluminum telescopic volleyball post that features a screw-rod style internal height adjustment mechanism. Net height is adjustable to all competition heights and anywhere in between. One post features a self-locking worm gear power winch with a folding handle. System provided with our knotless nylon net, a pair of combination antenna/

boundary markers and player protection padding. Optional judges stand available to make the OVS ready for competition matches. Multiple court systems also available.



Worm gear with folding handle

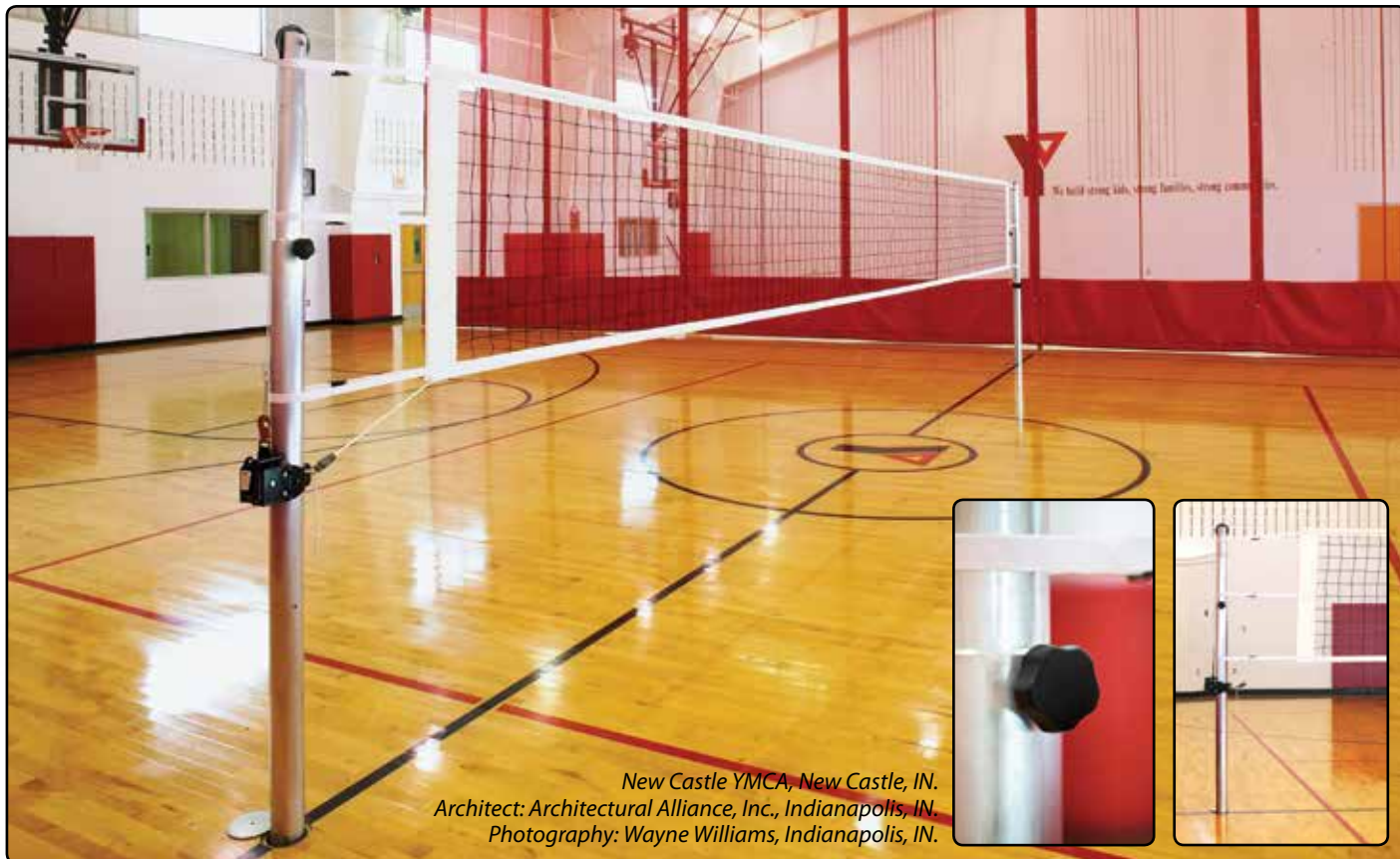


Optional padded judges stand

Available with Flex Net™ cable and tie-off free net, see page 27.

Dimensions, drawings and specifications available at:  
[www.draperinc.com/go/VolleyOVS.htm](http://www.draperinc.com/go/VolleyOVS.htm)

# ELITE VOLLEYBALL SYSTEM (EVS)



*New Castle YMCA, New Castle, IN.  
Architect: Architectural Alliance, Inc., Indianapolis, IN.  
Photography: Wayne Williams, Indianapolis, IN.*

**EVS incorporates an internal spring assist mechanism to allow for easy, precise and infinite height adjustment.**

The EVS Elite Volleyball System is Draper's top of the line volleyball system designed for today's premier volleyball programs. EVS incorporates an internal spring assist mechanism to allow for easy, precise and infinite height adjustment. EVS easily locks in place with a pressure lock hand knob and post is clearly marked at normal competition heights.

Each EVS post has a 6' lower section constructed of 3½" diameter schedule 80 aluminum tubing, an upper section made of 2⅞" O.D. aluminum tubing with .300" wall thickness. Each upright features an adjustable rubber foot for fine adjustments and protection of your court. Winch features a folding handle to provide maximum player safety.

#### Consider these EVS features:

- Meets all NFHS, USA Volleyball, NCAA and FIVB requirements for competition equipment
- Infinite height adjustment from 6' to 8'4"
- High maneuverability—Lightweight and easy to handle
- Attractive anodized aluminum finish
- Secure cast-in-place 3½" I.D. floor sleeves with choice of flush cover plates provide rigid support for life of installation
- Tensioning winch is a heavy-duty, self locking, worm gear mechanism. A heavy 2" wide, high tensile strength, nylon strap with heavy-duty hook eliminates the possibility of hooks breaking and guarantees safe connection to the net-top cable
- Easy storage—Can be hung on a wall with hooks, stored on optional transporter or tucked away in a closet
- Heavy-duty construction. Built for years of trouble-free service and intense use

#### 500041 Single Court System

**Telescopic Standards**—One pair of uprights. A power winch is located on the outside of one post. Second upright is equipped with an adjustable cable anchor collar.

**500004 Power Volleyball Net**—One each

**500005 Rope Tensioner**—One each

**500016 Combination Antenna/Boundary Markers**—One pair

#### 500042 Two Court System

**Telescopic Standards**—Three uprights. Power winch is located on outside of two posts. Center upright is equipped with double top pulleys and adjustable cable anchor collar for attaching two nets.

**500004 Power Volleyball Net**—Two each

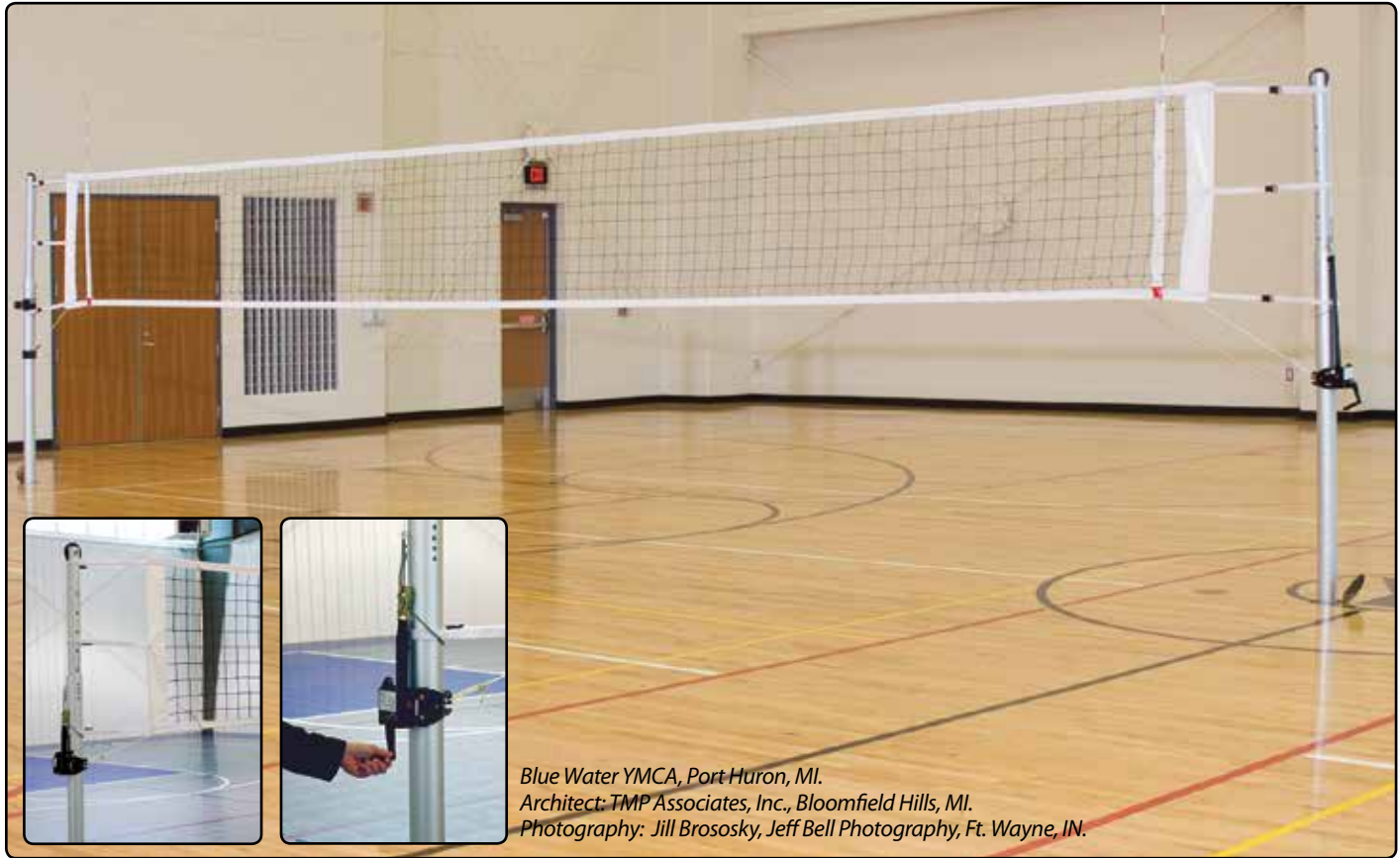
**500005 Rope Tensioner**—Two each

**500016 Combination Antenna/Boundary Markers**—Two pair

Available with  
Flex Net™ cable  
and tie-off free  
net, see page 27.

Dimensions, drawings and specifications available at:  
[www.draperinc.com/go/VolleyEVS.htm](http://www.draperinc.com/go/VolleyEVS.htm)

# POWER VOLLEYBALL SYSTEM (PVS)



*Blue Water YMCA, Port Huron, MI.  
Architect: TMP Associates, Inc., Bloomfield Hills, MI.  
Photography: Jill Brososky, Jeff Bell Photography, Ft. Wayne, IN.*

**Every Draper PVS is equipped with a power-tensioning winch. The handle folds flush for player safety.**

The all-aluminum PVS floor-sleeve type volleyball system is engineered for a lifetime of hard use.

Each post is manufactured with high-strength 3½" O.D. aluminum. Height adjustment, from 6'1" to 8'4" in one inch increments, uses precise mechanical pin adjustment.

Each upright is equipped with an adjustable protective rubber bumper for fine adjustments. Power winch has a folding handle to insure player safety.

#### **Consider these PVS features:**

- Meets all NFHS, USA Volleyball, NCAA and FIVB requirements for competition equipment.

- Adjusts to all competition heights
- Clear anodized finish for professional looking appearance
- High maneuverability—lightweight and easy to handle
- Easy setup—requires only one person just a few minutes
- Secure cast-in-place 3½" I.D. floor sleeves with choice of flush cover plates provide rigid support for life of the installation
- Tensioning winch is a heavy-duty, self-locking worm gear mechanism. A heavy 2" wide, high-tensile strength, nylon strap with heavy-duty snap guarantees safe connection to the net top cable
- Easy storage—can be hung on wall hooks, secured with vertical storage brackets, stored on transporter/storage cart or tucked away in a closet
- Heavy-duty construction. Built for years of trouble-free service and rough use

**Available with Flex Net™ cable and tie-off free net, see page 27.**

#### **500001 Single Court System**

**Telescoping Aluminum Standards**—One pair of uprights. A power winch is located on the outside of one post. Second upright is equipped with an adjustable cable anchor collar.

- 500004 Power Volleyball Net**—One each
- 500005 Rope Tensioner**—One each
- 500016 Combination Antenna/Boundary Markers**—One pair

#### **500002 Two Court System**

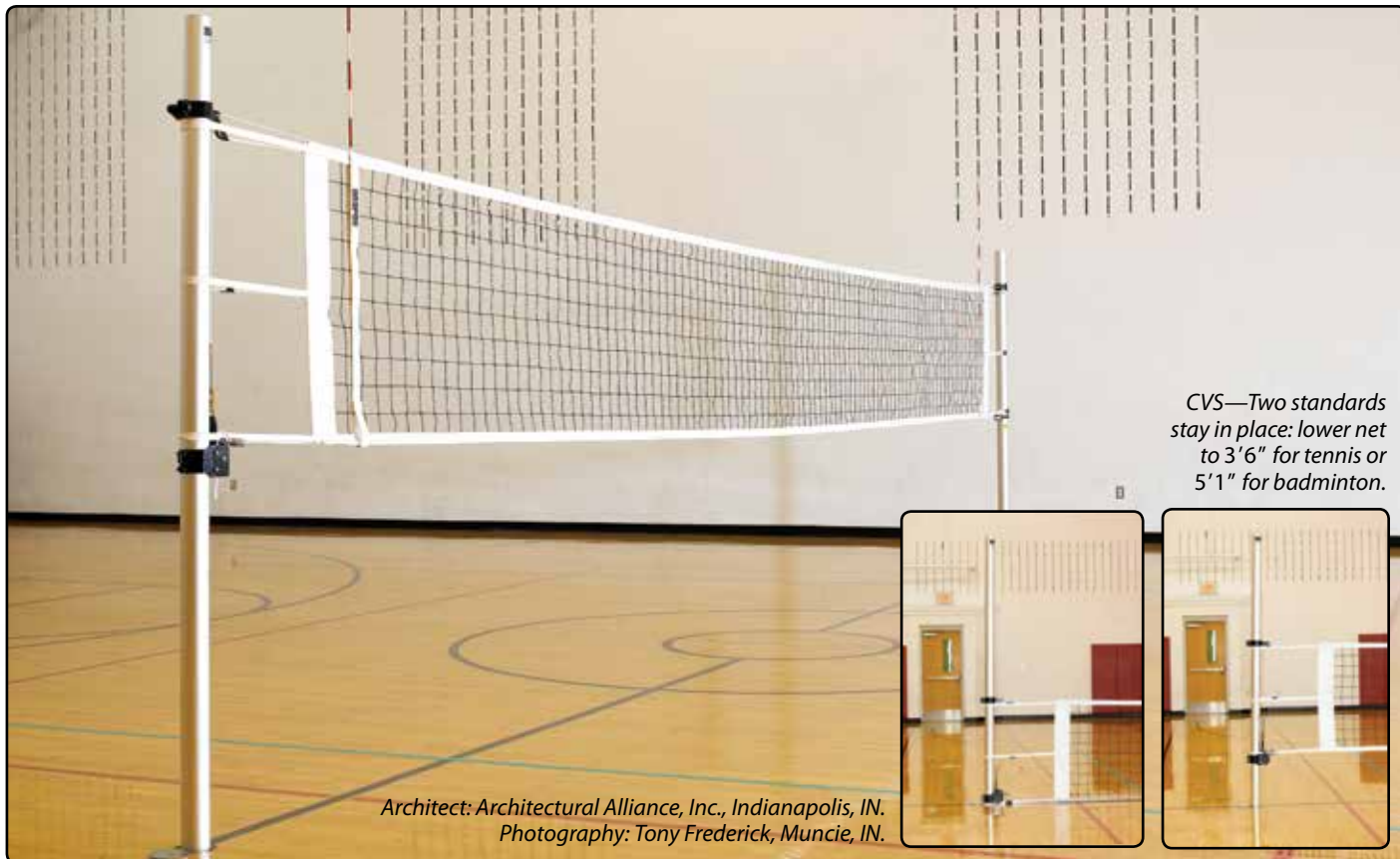
**Telescoping Aluminum Standards**—Three uprights. A power winch is located on the outside of two posts. Center upright is equipped with double top pulleys and adjustable cable anchor collar to attach two nets.

- 500004 Power Volleyball Net**—Two each
- 500005 Rope Tensioner**—Two each
- 500016 Combination Antenna/Boundary Markers**—Two pair

Dimensions, drawings and specifications available at:  
[www.draperinc.com/go/VolleyPVS.htm](http://www.draperinc.com/go/VolleyPVS.htm)



# COMPETITION VOLLEYBALL SYSTEM (CVS)



CVS—Two standards stay in place: lower net to 3'6" for tennis or 5'1" for badminton.

Architect: Architectural Alliance, Inc., Indianapolis, IN.  
Photography: Tony Frederick, Muncie, IN.

The versatile CVS Volleyball System can be adjusted to heights for volleyball, badminton, tennis, and other net games.

CVS Competition Volleyball System incorporates all of the top quality features of our high end system with additional versatility. The all-aluminum CVS floor sleeve type system adjusts to all competition heights for tennis, badminton and volleyball or anywhere in between.

**Consider these CVS features:**

- Meets all NFHS, USA Volleyball and NCAA requirements for competition equipment
- Infinite net height adjustment from tennis to men's volleyball
- Clear anodized finish
- Secure cast-in-place 3½" I.D. floor sleeves with choice of flush cover plates provide rigid support for life of installation
- Easy storage—can be hung on wall hooks,

secured with vertical storage brackets, stored on transporter/storage cart or tucked in a closet

- Heavy-duty construction. Built for years of trouble-free service and rough use

**500010 Single Court System**

**Fixed Length Aluminum Standards**—One pair of uprights. A power winch is located on the inside of one post. The second upright is equipped with an adjustable cable anchor collar.

**500014 Competition Volleyball Net**—One each

**500005 Rope Tensioner**—One each

**500016 Combination Antenna/Boundary Markers**—One pair

**500011 Two Court System**

**Fixed Length Aluminum Standards**—Three uprights. Power winch is located on inside of two posts. Center up-right is equipped with double top pulleys and adjustable cable anchor collar for attaching two nets.

**500014 Competition Volleyball Net**—Two each

**500005 Rope Tensioner**—Two each

**500016 Combination Antenna/Boundary Markers**—Two pair

Available with Flex Net™ cable and tie-off free net, see page 27.

Dimensions, drawings and specifications available at:  
[www.draperinc.com/go/VolleyCVS.htm](http://www.draperinc.com/go/VolleyCVS.htm)

# STEEL VOLLEYBALL SYSTEM (SVS)



*Draper SVS at Spiceland Friends Church, Spiceland, IN.  
Photography: Wayne Williams, Indianapolis, IN.*

**SVS features height adjustment from 6'1" to 8'4" in precise one inch increments.**

SVS Steel Volleyball System incorporates all of the quality features of our PVS Volleyball System with telescopic steel posts. The Draper SVS is designed for programs on a budget or ones that prefer the rigidity of a steel post. Stiff steel post allows the user to rapidly obtain the desired net tension.

Each post has a 6' lower section constructed of 3 1/2" diameter 11 gauge steel tubing, an upper section made of 2 7/8" O.D. aluminum tube with .300" wall thickness and a large nylon bushing to insure smooth operation. Height adjustable from 6'1" to 8'4" in one inch increments with precise mechanical pin adjustment. Each upright features an adjustable rubber foot to allow for exact height adjustment and to protect your floor. Winch features a folding handle to provide maximum player safety.

#### **Consider these SVS features:**

- Meets all NFHS, USA Volleyball, NCAA and FIVB requirements for competition equipment
- Adjusts to all competition heights
- Durable High-Gloss Black Powder Coat finish
- Secure cast-in-place 3 1/2" I.D. floor sleeves with flush cover plates provide rigid support—for the life of the installation
- Tensioning winch is a heavy-duty, self-locking worm gear mechanism. A heavy 2" wide, high tensile strength, nylon strap with heavy-duty snap hook eliminates the possibility of hooks breaking and guarantees safe connection to the net-top cable
- Easy storage—can be hung on a wall with hooks, stored on optional transporter or tucked away in a closet
- Heavy-duty construction—built for years of trouble-free service and rough use

#### **500021 Single Court System**

**Telescopic Standards**—One pair of uprights. A power winch is located on the outside of one post. Second upright is equipped with an adjustable cable anchor collar.

- 500004 Power Volleyball Net**—One each
- 500005 Rope Tensioner**—One each
- 500016 Combination Antenna/Boundary Markers**—One pair

#### **500022 Two Court System**

**Telescopic Standards**—Three uprights. A power winch is located on the outside of two posts. Center upright is equipped with double top pulleys and an adjustable cable anchor collar to attach two nets.

- 500004 Power Volleyball Net**—Two each
- 500005 Rope Tensioner**—Two each
- 500016 Combination Antenna/Boundary Markers**—Two pair

Available with  
Flex Net™ cable  
and tie-off free  
net, see page 27.

Dimensions, drawings and specifications available at:  
[www.draperinc.com/go/VolleySVS.htm](http://www.draperinc.com/go/VolleySVS.htm)

# VOLLEYBALL ACCESSORIES

## Floor Plates

Floor plates in chrome or brass with secured covers and removal key. Protects floor sleeves and mounts flush with all types of flooring materials. May be combined with any floor sleeve below.

### Floor Plates:

**501001** 5" Chrome Plated Cover Plate Assembly

**501031** 5" Brass Plated Cover Plate Assembly

**501034** 8" Chrome Plated Cover Plate Assembly

**501033** 8" Brass Plated Cover Plate Assembly

**501035** Locking Brass Cover Plate Assembly



## Floor Sleeves

Cast-in-place floor sleeve rigidly secures standards and is adaptable for new construction retrofit on existing floors. Steel mechanical tubing. Square plate welded to bottom provides secure footing in concrete.



Floor Sleeves:	I.D.	Depth
<b>501006</b>	3½"	8½"
<b>501008</b>	2¾"	8¼"
<b>501009</b>	3"	8¼"
<b>501010</b>	4"	12¼"

## 501016 Transporter/Storage Cart

Heavy-duty transporter is designed to store six posts, nets, one judges stand, padding for standards, accessories and numerous volleyballs in the storage pouch. Rolls easily on non-marking swivel casters. Finished in attractive gloss black powder coat. Provided with dark black vinyl storage pouch and bottom shelf.



## 5013XX\* Judges Stand with Protective Padding

Official's platform constructed of 1½" square tubing uses quick-lock pin attachment to collar on post and rolls on non-marking wheels. Supplied with protective padding, dark blue standard.

*\*Last two digits indicate pad color.*

## 5014XX\* Free-standing Judges Stand with Protective Padding

Designed for easy setup and transportation. Judges stand folds nearly flat for easy storage and features 4" non-marking wheels for easy transportation. Sturdy four legged design made with 1½" steel tube legs with a tough, gloss black powder coat finish and rubber tips on each leg. Padded platform is 48" above the floor. Judges stand provided with heavy-duty polyurethane pads with vinyl wrap that is available in fifteen colors. *\*Last two digits indicate pad color.*



## 5011XX\* Protective Pads for Volleyball Standards

Upright pads for standards provide maximum player protection. Our 6' high pads are constructed of 1½" thick, cross-linked polyethylene foam filler covered with polyester reinforced vinyl fabric. Each pad consists of two vertical sections that attach with hook and loop fasteners for a quick, easy setup. Each section is hinged at the corners to fold neatly around posts and tensioning winch. Protective Pads work equally well when used with a Judges Stand or Center Standard Kit. Dark blue is standard, other colors available. *\*Last two digits indicate pad color.*



## Center Standard Kits

Center Standard Kit for multiple court use in conjunction with any Draper Volleyball System. Same top quality features with double top sheaves for attaching two nets. Kit includes one center standard (**501024 EVS**, **501013 PVS**, **501021 CVS**, **501023 SVS**), one winch with folding handle, one net (**500004**), one pair of Combination Antenna/Boundary Markers (**500016**). Post pad is optional.

## 500018 Flex Net Upgrade Kit

Upgrade your volleyball system to the Flex Net to spend time practicing, instead of setting up your net. The Flex Net has only two connecting points on each side by placing all tension on the heavy-duty woven nylon strap top and bottom bands to supply superb net tension and eliminate extra cables, straps and tie-offs. Flex Net Upgrade Kit comes complete with Net and all necessary adaptor cables to fit Draper and most other volleyball systems.



## Badminton Game Systems

Draper offers a full line of sleeve style badminton systems including multi-court and competition systems. All posts are 2¾" OD, attractive gloss black powder coat finish, and threaded foot to insure exact net height.

**502100** Single Court System with Recreational Net

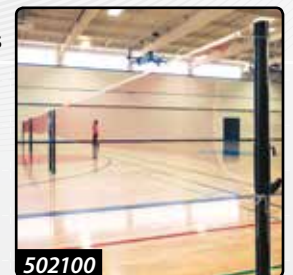
**502104** Two Court System with Recreational Nets

**502101** Pair Badminton End Standards

**502103** Center Badminton Standard

**502102** Recreational Badminton Net (21' x 30")

**502122** Competition Badminton Net (19'9" x 30")



Dimensions, drawings and specifications available at:  
[www.draperinc.com/go/VolleyAccessories.htm](http://www.draperinc.com/go/VolleyAccessories.htm)

# PHYSICAL EDUCATION EQUIPMENT

## MULTI-SPORT PRACTICE CAGES

Draper offers three models of Multi-Sport Practice Cages to match any specification and to fit almost every building condition. All practice cages fold electrically to storage position at the ceiling when not in use and lower into playing position with the turn of a key switch. All designs feature 1½" OD galvanized steel tube frame and knotless nylon netting on four sides and top. Cage features two zippered corners for easy access. Nylon netting is available in black or white and has ¾" openings to allow use for baseball, softball or even golf practice. Standard cage size is 10' (w) x 12' (h) x 70' (l), but can be provided in custom sizes when necessary. Netting is tall enough to allow sufficient length to rest on the floor and prevent balls from going under.

### Bottom-Lifting Practice Cage

Draper's newest and most convenient practice cage design. Lifting cables pass through 2" wide frame suspension nylon belts; links attached to the netting and terminate at steel weights. Cage automatically folds the netting to the frame then lifts tight to the storage position. Just turn the key switch and watch the cage fold with no manual operations required.

### Center-Lifting Practice Cage

Traditional design with motor and drive shaft located at the center of the cage. Frame and netting lifted with sling style cable arrangement. Net manually folded to top of cage frame for storage.

### Side-Lifting Practice Cage

This style of practice cage offers the smallest storage dimension. Design has the motor and drive shaft down one side and cable guide pulleys down the other to allow it to lift the frame tight to the ceiling. Netting is manually folded to top of cage frame for storage.



Dimensions, drawings and specifications available at:  
[www.draperinc.com/go/PhysicalEd.htm](http://www.draperinc.com/go/PhysicalEd.htm)

## CLIMBING ROPES

Draper offers climbing ropes in three different materials and a variety of ends, optional knots, rubber balls and accessories to improve muscle tone in the upper arms and shoulders. Standard lengths of rope are 18'. Custom lengths and attachment clamps available.

### Choose the material:

1. EZ Manila is 1½" rope twisted from 3 strands of Grade A manila.
2. EZ Rope looks and feels like natural rope but is a synthetic "unmanila" fiber. Even at 1½", it is two-thirds the weight and is superior in strength to natural rope.
3. EZ Poly is 1½" polypro core covered with a soft, durable cotton-like polyester.

### Choose climbing aids:

Optional, specify quantity and desired location on rope

1. Woven knots spliced into the rope for assistance and rest areas.
2. Large tied knots used to form platforms for climbing assistance.
3. Rubber balls available only on EZ Manila and EZ Poly ropes.

### Choose rope end style:

1. Whipped
2. Polyboot
3. Leather seat on a turk knot

### Choose accessories:

1. **502004 Tambourine** clamps to any position on the rope to limit climbing distance.
2. **502005 Climbing Rope Hoist** to raise ropes to wall or ceiling after use for easy storage.
3. **502003 Adjustable Beam Clamp** with EZ-link to attach ropes to I-beams, bar joists and trusses.
4. **502014 Safety Cable** attachment. A backup safety device for all ropes. Cable loops over ceiling.



# OUTDOOR BASKETBALL BACKSTOP SYSTEMS

## OUTDOOR GALVANIZED POST SETS

Post sets are constructed with heavy wall galvanized pipe and include a lug at the bottom to prevent rotation in footing. Goals bolt directly through backboard post to eliminate stress on backboard. Choose from backboards and goals listed on page 30.

### Gooseneck Style Posts

- Pipe formed with an 18" to 24" radius.
- Available in 3½" OD with 3' or 4' extensions, 4½" OD with 4' or 5' extension or 5⅝" OD with 6' extension.

### Straight Style Posts

- Goal Height can be set from 0' to 10'.
- Available in 3½" OD with 3' extension, 4½" with 4' extension or 5⅝" OD with 6' extension.

### Back-to-Back Style Posts

- Two extensions using a common center post.
- Available in 4½" OD with 4' extensions or 5⅝" OD with 6' extensions.



Gooseneck Style Post



Straight Style Post

## OUTDOOR HEAVY-DUTY POST SETS

### Heavy-Duty Fixed Height Post Sets

Direct bury post and 66" extension arm built from 6" square x ⅜" wall steel tubing. Extension arm attached with six ⅝" high tensile strength bolts.

Available with 72" x 42" acrylic backboard with breakaway goal **506995** or 72" x 42" steel backboard with super playground goal **506997**. Also available with two extension arms for back-to-back configurations using a common center post.

### Heavy-Duty Back-to-Back Fixed Height Post Sets

Same premium construction and quality features as our Heavy-Duty Fixed Height Posts, except with a second extension arm, backboard and rim extending off opposite side.

Available with 72" x 42" acrylic backboard with breakaway goal **506996** or 72" x 42" steel backboard with super playground goal **506998**.

Optional **506982** 6" Square Post Pad and **506986** Backboard Edge Padding available for all Heavy-Duty Fixed Height Post Sets.



506997



506995



506998



506996

Dimensions, drawings and specifications available at:  
[www.draperinc.com/go/OutdoorBBall.htm](http://www.draperinc.com/go/OutdoorBBall.htm)

# OUTDOOR BASKETBALL BACKBOARDS & GOALS

## OUTDOOR BASKETBALL BACKBOARDS

- 503148** Fan Fiberglass 54" x 39"
- 503143** Fan Aluminum Backboard with markings
- 503033** Perforated Steel 72" x 42"
- 503035** Polycarbonate Backboard 54" x 42"
- 503034** Polycarbonate Backboard 72" x 42"
- 503167** Solid Steel 72" x 42"



503148



503033

## OUTDOOR BASKETBALL GOALS

- 503570** Stationary Goal
- 503572** Heavy-Duty Stationary Goal
- 503575** Double Rim Goal with Nylon Net
- 503579** Double Rim Goal with Chain Net
- 503078** Super Playground Goal with Nylon Net
- 503077** Super Playground Goal with Premium Chain Net
- 503079** Outdoor Breakaway Goal



503570



503077



503078



503079

## OUTDOOR BACKBOARD PADDING

Outdoor backboard padding. Molded urethane construction. Padding secures to backboard with self-drilling screws. Fits most 48"-72" wide backboards.

- 506989** 48" padding
- 506988** 54" padding
- 506987** 60" padding
- 506986** 72" padding



## OUTDOOR POST PADDING

Premium pole pad for outdoor posts. Foam pad (1½"-2" thick) with sewn black vinyl cover. All-weather. Pole pad is 66" tall.

- 506982** Heavy-Duty (6" square) Post Pad—hook and loop attached
- 506984** Lace & Grommet Pad for 3½" to 4½" round
- 506985** Lace & Grommet Pad for 5½" round



Dimensions, drawings and specifications available at:  
[www.draperinc.com/go/OutdoorBBall.htm](http://www.draperinc.com/go/OutdoorBBall.htm)

# FOOTBALL GOALPOSTS

## 6<sup>5</sup>/<sub>8</sub>" ALUMINUM GOOSENECK GOALPOSTS

These goalposts are the perfect goalpost for multi-purpose fields and top level facilities. All aluminum construction with tough yellow powder coat finish provides a professional look and extension allows for the use with most portable soccer goals. Goalpost has a 6<sup>5</sup>/<sub>8</sub>" gooseneck post with 108" set back and cross bar and 4"OD, 20' uprights that extend to a height of 30' above the playing surface. Can be permanently installed or used with 505099 adjustable ground sleeves for semi-permanent installations.

**505129 Collegiate 6<sup>5</sup>/<sub>8</sub>" Safety Yellow Goalpost – 18' 6" Between 20' uprights**

**505127 High School 6<sup>5</sup>/<sub>8</sub>" Safety Yellow Goalpost – 23' 4" Between 20' uprights**

## STEEL GOOSENECK GOALPOSTS

Draper's 5<sup>9</sup>/<sub>16</sub>" OD Gooseneck Goalposts feature 78" extension and are available in official sizes for high school or collegiate play. Goalposts are fully adjustable in two directions to insure accurate installation. These goalposts have a 5<sup>9</sup>/<sub>16</sub>" Schedule 40 steel post, 4<sup>1</sup>/<sub>2</sub>" steel cross bar and 2<sup>3</sup>/<sub>8</sub>" x 20' long aluminum uprights that extend to 30' above the playing surface. Goalposts feature powder coat finish in your choice of white or safety yellow. Goalposts are available for permanent (direct bury) installations, semi-permanent installation utilizing 505101 adjustable ground sleeves or with adjustable leveling plate installation.

Description	Details	Permanent/Semi-Permanent Installation	Adjustable Leveling Pad Installation
5 <sup>9</sup> / <sub>16</sub> " Collegiate Safety Yellow	18'6" Between 20' uprights	505125	505135
Collegiate White	18'6" Between 20' uprights	505124	505134
5 <sup>9</sup> / <sub>16</sub> " High School Safety Yellow	23'4" Between 20' uprights	505123	505133
High School White	23'4" Between 20' uprights	505122	505132

### 505116 H-Style Goalpost

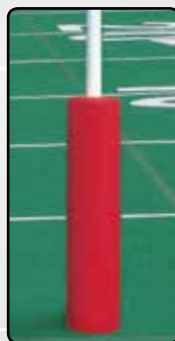
The most affordable Draper goalpost option features 3<sup>1</sup>/<sub>2</sub>" OD galvanized uprights and 2<sup>3</sup>/<sub>8</sub>" OD galvanized crossbars with white powder coat finish. Posts bury directly into ground approximately 3'. Official 23' 4" wide with 10' high uprights. Crossbar can be cut to 18' 6" for collegiate installations. Goalposts are sold in pairs.

## FOOTBALL ACCESSORIES

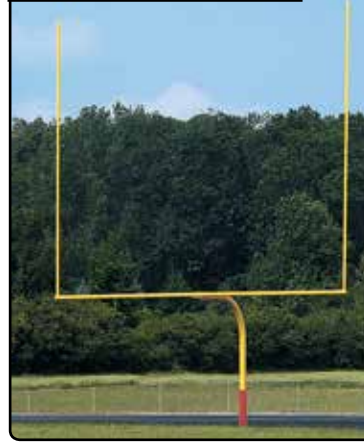
### Goalpost Padding

**5051XX\*** Super thick 6" foam covered with weatherproof vinyl in your choice of 11 school colors. Hook and loop strap closures. Protects players to a height of 72". Meets all NCAA and National High School Federation rules. Designed to fit all goal posts to 5<sup>9</sup>/<sub>16</sub>" diameter and 4" square. \*Last two digits indicate color of pads.

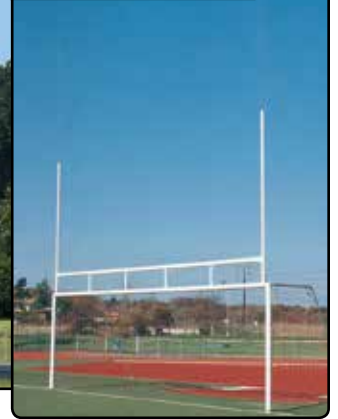
**5052XX** Same as above but designed for larger 6<sup>5</sup>/<sub>8</sub>" posts.



5<sup>9</sup>/<sub>16</sub>" Gooseneck Goalpost



Combination Football/Soccer Goalpost



### 4<sup>1</sup>/<sub>2</sub>" Steel Gooseneck Goalpost

Same quality design and features as Draper's 5<sup>9</sup>/<sub>16</sub>" OD goalposts, but with a 4<sup>1</sup>/<sub>2</sub>" OD, schedule 40 gooseneck posts with a 55" extension. Use 505100 adjustable ground sleeves for semi-permanent installations.

Description	Details	Permanent/Semi-Permanent Installation	Adjustable Leveling Pad Installation
4 <sup>1</sup> / <sub>2</sub> " Collegiate Safety Yellow	18'6" Between 20' uprights	505121	505131
Collegiate White	18'6" Between 20' uprights	505120	505130
4 <sup>1</sup> / <sub>2</sub> " High School Safety Yellow	23'4" Between 20' uprights	505119	505139
High School White	23'4" Between 20' uprights	505118	505138

### 505117 Combination Football/Soccer Goals for High School or College

This goal can be easily changed to accommodate football or soccer. Soccer goal is official sized at 24' x 8'. Goals are constructed of 4" x 2" rectangular steel tubing and uprights are 2" square steel. Goal finished with an attractive and durable white powder coat finish. Removable soccer backstays are 1<sup>1</sup>/<sub>6</sub>" OD galvanized steel. Goal provided with net attachment system. Order 505015 soccer net separately. Order optional 505098 ground sleeves with locking caps for semi-permanent installations.

### Adjustable Height Ground Sleeves

Goalpost sleeve to allow accurate adjustment of the crossbar height to official 10'. Use to remove gooseneck style goalposts on multi-purpose fields. Built-in anti-rotation device and plumb adjustment. Requires minimum 30" diameter x 53" deep excavation.

**505100** For 4<sup>1</sup>/<sub>2</sub>" diameter goalposts

**505101** For 5<sup>9</sup>/<sub>16</sub>" diameter goalposts

**505099** For 6<sup>5</sup>/<sub>8</sub>" diameter goalposts

Dimensions, drawings and specifications available at:  
[www.draperinc.com/go/FootballGoal.htm](http://www.draperinc.com/go/FootballGoal.htm)

# SOCCER GOALS

## PORTABLE SOCCER GOALS

Draper's lightweight Portable Soccer Goals have a 4" aluminum post face and crossbar design. A unique corner attachment system allows for ease of installation and the elimination of all protruding hardware on the front and sides of goal. Features a white powder coated finish and edge radius for player safety. Backstays are galvanized steel tube and provide up to 4' top depth. Net clips hold the net securely to the face of the goal.

All Draper Portable Soccer Goals come standard with nets and built-in wheel kit for easy transport, rear stabilizer bar and ground anchor kit for player safety.

### 505003 Official 24' x 8' Competition Aluminum Portable Goals

Meets all NCAA, FIFA and National High School Federation rules.

### 505002 Club 21' x 7' Aluminum Portable Goals

### 505001 Youth 12' x 6½' Aluminum Portable Goals



Portable goal net clips



Built-in transporter



Auger-type ground anchors

## IN-GROUND STEEL SOCCER GOALS

Sturdy, economical, and easy to install and secure with a corner attachment design. Can be permanently mounted in concrete or removable when used with 505009 Ground Sleeves. All steel components feature powder coating. Order nets, optional backstays and ground sleeves separately. Posts are 4" round with 14 gauge wall thickness.

### 505006 Official 24' x 8' Competition Steel In-Ground Goals

Meets all NCAA, FIFA and National High School Federation rules.

Order 505016 or 505015 nets with backstays separately.

### 505007 Optional European Style Backstays

Backstays can be mounted to in-ground soccer goals. Backstays feature galvanized finish and 1½" diameter tube construction. When using backstays, a 4' top depth net is needed (see chart below). Sold in sets for backstays with mounting hardware.



505007  
Optional European Style Backstays

## SOCCER ACCESSORIES

### 505009 Ground Sleeve for Steel In-Ground Soccer Goals

Make Draper's in-ground goals removable for multi-purpose fields by adding ground sleeves. Aluminum extrusions are 24" deep to fit any 4" round post. Steel removable cap keeps out dirt and debris. Requires 30" deep x 8" minimum diameter ground excavation. Sold in sets of four.

### 505010 Soccer Goal Ground Anchor Kit

Auger-type anchors for soft or loose soils. Set of four (use two per goal) provided with all aluminum portable goals.

### Twisted Nylon Soccer Nets

Although designed specifically for Draper soccer goals, these nets can be used on any goal with a correct top depth. Nets are constructed of high strength twisted nylon covered mesh with a minimum of 5½" square openings. Nets have finished rope edges. Each pair of nets comes with a mesh carry bag for easy transport or storage.

Soccer Net Model #	Width	Height	Top Depth	Bottom Depth
505015	24'	8'	4'	10'
505016	24'	8'	0'	8'
505014	21'	7'	3'	8'
505012	12'	6'6"	2'	6'

Dimensions, drawings and specifications available at:  
[www.draperinc.com/go/SoccerGoalPost.htm](http://www.draperinc.com/go/SoccerGoalPost.htm)



# OTHER OUTDOOR SPORTS SYSTEMS

## OUTDOOR TENNIS SYSTEMS

### 502106 Power Tennis System

Draper's Power Tennis System is your best choice for exterior winding posts. Power Tennis System has an all-aluminum crank that will never rust. Winch handle is removable. Posts are constructed with 3½" O.D., 11 gauge, galvanized tube that is finished with electrostatically applied black enamel. Posts feature an aluminum cap with an aluminum pulley to permit cable to feed over the post.

### 502108 Championship Tennis System

Draper offers the most durable, attractive and user-friendly tennis post available. These high-end 3" square x 60" posts include an internal net tensioner with ample cable take-up capacity and a winding mechanism designed for heavy loads without fear of binding. Winding mechanism works with a ½" socket. Posts finished with electrostatically applied black enamel and feature lacing rod.

Draper's Tennis Systems are supplied with **502110** heavy-duty net made with 3.0 mm hollow braid polyethylene twine, 36 oz. single layer vinyl head band sewn with 4 rows of lock stitch. Bottom and side tapes are extra wide, abrasion resistant 18 oz. vinyl with brass grommets. All vinyl bands are treated with UV and mildew inhibitors. Net has ½" fiberglass end dowels and 5/32" x 46' vinyl coated galvanized aircraft top cable.

Tennis Systems also provided standard with a **502111** polyester center strap and **502112** ground anchor. Post can be used indoors or outside and can be direct buried or used with optional ground sleeves.

**505324 Steel Ground Sleeve** 3½" x 24" with neoprene seal cap.

**502115 PVC Ground Sleeve** 3" x 24"



## OUTDOOR VOLLEYBALL SYSTEMS

### 505501 Championship Outdoor Aluminum Volleyball System

Height adjustable posts are constructed from specially designed heavy-wall aluminum extrusions. Lightweight aluminum materials make set up and tear down easy. Post is finished with durable powder coat. Net height is adjustable from 42" to 96" for all levels of competition. Easy to read height indicators on both posts. Backlash-free worm gear top rope tensioner provides superior net tension for ball rebound preferred by players and coaches. Net measures official sized 32' x 39" and features a ¼" top cable, 3/8" bottom rope and white top, bottom and side tapes.

**505309 Steel Ground Sleeve** 3½" x 9" with neoprene seal cap.

**505310 Sand/Beach Installation Kit**

### 505502 Championship Outdoor Steel Volleyball System

Rugged outdoor system constructed of blue powder coated, 3½" galvanized steel tubing is ideal for outdoor recreational and/or grass volleyball. Uprights have fixed net height for official men's and women's competition and a positive lock ratchet net tensioning device. System includes 36" aluminum ground sleeves with cast aluminum caps for semi-permanent installation. Order Draper Model **500014** Collegiate Net separately.

### 505510 Economy Outdoor Steel Volleyball System

Outdoor Volleyball System is manufactured using 2¾" O.D. galvanized tubing. Tubes are 10' long and have end plugs to prevent water and moisture collection. System provided with #21 all-weather nylon official-sized net and winch with removable handle.



## TETHERBALL SYSTEM

### 505201 Tetherball System

Tetherball System consists of a post constructed of 2¾"-13-gauge galvanized tubing, a 5-ply yellow rubber covered ball with nylon wound butyl bladder and reinforced, recessed rope attachment and braided nylon rope. Overall length of post is 11'6" to allow for 18" to be set in concrete footing or optional ground sleeve. Bottom of post notched to prevent rotation in footing and/or ground sleeve.

**505318 Ground Sleeve** 2¾" x 18" with neoprene seal cap.

**505202 Replacement Tetherball** with rope.



# PARK & PLAYER BENCHES

## PERMANENT PARK BENCHES

Draper Park Benches are available in many styles and offer many options to meet your specific needs. These benches feature a sturdy and contoured back for maximum comfort. Draper Park Benches are available in lengths of 6', 7'6", 8' and 15'. Frames are constructed with steel tubing and galvanized or finished with black powder coat. Choose your planking from cedar-colored recycled plastic, aluminum or thermoplastic-coated expanded metal in choice of three colors.

### Permanent Park Benches

	6'	7'6"	8'	15'
Galvanized Frame w/Cedar-colored Recycled Plastic Planks	507164	—	507184	—
Black Powder Coat Frame w/Cedar-colored Recycled Plastic Planks	507264	—	507284	—
Galvanized Frame w/Extruded Aluminum Planks	—	507175	—	507155
Black Powder Coat Frame w/Extruded Aluminum Planks	—	507275	—	507255
Galvanized Frame w/Thermoplastic-coated Expanded Metal Planks	50716X	—	50718X	50715X
Black Powder Coat Frame w/Thermoplastic-coated Expanded Metal Planks	50726X	—	50728X	50725X

X—last digit indicates color: 1 Red; 2 Blue; 3 Black



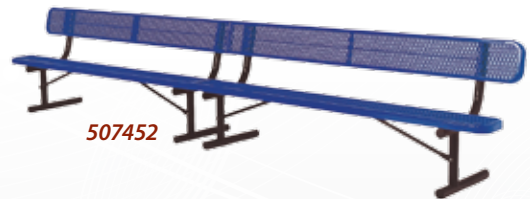
## PORTABLE PARK BENCHES

Same quality construction as our permanent park benches with a design to allow portability. Ideal for indoor or outdoor use. Frames for portable benches feature horizontal feet and lateral braces to increase stability. Feet are provided with rubber pads to protect floors and playing surfaces.

### Portable Park Benches

	6'	7'6"	8'	15'
Galvanized Frame w/Cedar-colored Recycled Plastic Planks	507364	—	507384	—
Black Powder Coat Frame w/Cedar-colored Recycled Plastic Planks	507464	—	507484	—
Galvanized Frame w/Extruded Aluminum Planks	—	507375	—	507355
Black Powder Coat Frame w/Extruded Aluminum Planks	—	507475	—	507455
Galvanized Frame w/Thermoplastic-coated Expanded Metal Planks	50736X	—	50738X	50735X
Black Powder Coat Frame w/Thermoplastic-coated Expanded Metal Planks	50746X	—	50748X	50745X

X—last digit indicates color: 1 Red; 2 Blue; 3 Black



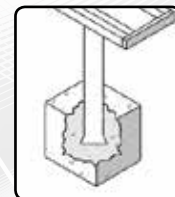
## PLAYER BENCHES

Draper Player Benches are available in portable or permanent models and in lengths of 6', 7'6", 8' and 15'. Frames are constructed with steel tubing and galvanized or finished with black powder coat. Portable Player Benches feature horizontal feet with rubber floor protection pads and lateral braces to increase stability. Choose your seating surfaces from cedar-colored recycled plastic, aluminum or thermoplastic-coated expanded metal in choice of three colors.

### Permanent Player Benches

	6'	7'6"	8'	15'
Galvanized Frame w/Cedar-colored Recycled Plastic Planks	507564	—	507584	—
Black Powder Coat Frame w/Cedar-colored Recycled Plastic Planks	507664	—	507684	—
Galvanized Frame w/Extruded Aluminum Planks	—	507575	—	507555
Black Powder Coat Frame w/Extruded Aluminum Planks	—	507675	—	507655
Galvanized Frame w/Thermoplastic-coated Expanded Metal Planks	50756X	—	50758X	50755X
Black Powder Coat Frame w/Thermoplastic-coated Expanded Metal Planks	50766X	—	50768X	50765X

X—last digit indicates color: 1 Red; 2 Blue; 3 Black



Permanent Installation Detail

### Portable Player Benches

	6'	7'6"	8'	15'
Galvanized Frame w/Cedar-colored Recycled Plastic Planks	507764	—	507784	—
Black Powder Coat Frame w/Cedar-colored Recycled Plastic Planks	507864	—	507884	—
Galvanized Frame w/Extruded Aluminum Planks	—	507775	—	507755
Black Powder Coat Frame w/Extruded Aluminum Planks	—	507875	—	507855
Galvanized Frame w/Thermoplastic-coated Expanded Metal Planks	50776X	—	50778X	50775X
Black Powder Coat Frame w/Thermoplastic-coated Expanded Metal Planks	50786X	—	50788X	50785X

X—last digit indicates color: 1 Red; 2 Blue; 3 Black



(Above) Permanent Player Bench  
(Below) Portable Player Bench



# BIKE RACKS

## LOOP STYLE BIKE RACKS

Draper Loop Style Bike Racks offer a clean and contemporary looking answer for bike storage. Loop Style Bike Racks are fabricated from 2<sup>3</sup>/<sub>8</sub>" O.D. galvanized tubing and are available for permanent or surface mount installations.

Size	Permanent Style	Surface Mount Style
3 Loop Bike Rack	<b>505313</b>	<b>505323</b>
5 Loop Bike Rack	<b>505315</b>	<b>505325</b>
7 Loop Bike Rack	<b>505317</b>	<b>505327</b>
9 Loop Bike Rack	<b>505319</b>	<b>505329</b>



## TRADITIONAL STYLE BIKE RACKS

Draper Traditional Style Bike Racks offer a design that groups rungs to facilitate uniform storage and allow for easier entrance and exit of bicycles. Bike racks are constructed with a frame from 1<sup>5</sup>/<sub>8</sub>" O.D. galvanized tubing and 5/8" O.D. galvanized rungs. Bike racks are assembled using galvanized heavy-gauge stampings. Single-sided and double-sided racks and add on units available to create longer bike racks for your specific requirements. Rack capacity is one bicycle per foot per side.

Size	Single Sided	Double Sided
5' Rack	<b>n/a</b>	<b>505345</b>
5' Add On Rack	<b>n/a</b>	<b>505344</b>
8' Rack	<b>505338</b>	<b>505348</b>
8' Add On Rack	<b>505337</b>	<b>505347</b>
10' Rack	<b>505330</b>	<b>505340</b>
10' Add On Rack	<b>505339</b>	<b>505349</b>



# TIP & ROLL BLEACHERS

Draper Tip and Roll Bleachers are designed for outdoor or indoor use and are ideal for locations where only temporary seating is required. Welded frame is constructed with aluminum angles and planking is 2" x 10" extruded 6063-T6 aluminum. Each unit has three rows of seating and includes 5" casters and non-marring pads to prevent scuffing or marking of floors.

**507995** 9' long, 3 rows

**507955** 15' long, 3 rows

**507921** 21' long, 3 rows



Draper, Inc. specializes in the design and manufacture of top quality gymnasium equipment. Since 1902, we've been a recognized world leader in our industry. We are proud to offer you an extensive line of products that carries with it our reputation for quality materials, superior engineering, and craftsmanship. Draper also manufactures projection screens, lifts for projectors and flat screen displays, and FlexShade window coverings. Please call for catalogs of any of these product lines, or visit our web site at [www.draperinc.com](http://www.draperinc.com)



Draper is a member of the U.S. Green Building Council (USGBC), the nation's foremost coalition of leaders from every sector of the building industry working to promote buildings that are environmentally responsible, profitable and healthy places to live and work. The U.S. Green Building Council's core purpose is to transform the way buildings and communities are designed, built and operated, enabling an environmentally and socially responsible, healthy, and prosperous approach that improves the quality of life.



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