

# Volleyball Equipment

## Arena II Freestanding Portable Systems

### **VB8100 Arena II Freestanding Portable Volleyball System**

System shall be capable of providing elite competition level volleyball play without the use of additional loose ballast, floor hold downs or any wall or ceiling attachment. System shall be suitable for use on all floor systems designed for competition play including maple, molded square tile and synthetic and allow suspension of no less than 250# from the center of the net when fully tensioned without movement of the bases.

Primary structural steel components shall be a minimum of 4" x 2" tubing with a minimum 1/8" wall thickness. All pivot points to facilitate folding, transport and storage shall be 1 1/4" steel pins. Welded base shall provide a fully enclosed ballast compartment that is properly loaded with ballast at the factory. System shall be capable of setup by one person. All steel components shall have a gray hammertone polyester powder coated finish. Entire system shall rest on the floor when in the transport position on eight (8), 8" diameter, 2" wide urethane casters. When rolled into playing position, front of system shall be lowered to the floor onto two 15 3/4" x 2" urethane skid bars. Skid bars shall be lowered by means of lever action activated when the pole is raised into the playing position.

The telescoping integral post design shall insure that no portion of the standards protrude above the top of the net at any net height setting on either end. The 3" steel outer tube shall have a minimum wall thickness of .22". The inner telescoping pole shall be 6061-T6 aluminum tubing and have a 2 1/2" OD with a .21" wall thickness. A pin in the outer tube shall ride in a machined slot in the inner tube to eliminate inner pole rotation and prohibit the inner tube from separating from the outer tube.

Net height shall be infinitely variable from a minimum of 80" to 98" with a single, spring assisted threaded release knob per post and have the capability of being locked into place at men's, women's and junior's height with a detent locking pin. Men's, women's and junior's height settings shall be clearly identified on the inner telescoping tube by machined markings.

The net shall be one meter high, be constructed of black polypropylene 3.5mm knotless woven webbing, have a Kevlar top rope and a polypropylene bottom rope. For replacement net order VB1250K. The top rope shall rest on rope saving top domes. The top, bottom and sides of the net shall be finished with white-coated tarpaulin fabric with double stitched hemmed edges. The top of the net shall be tensioned by means of a machined winch with a 26:1 ratio worm gear mounted on the official platform standard. All winch shafts shall rotate in sealed ball bearings. Winch shall be designed to have a non removable folding handle and to tension to a 2" wide nylon webbing strap that is attached to the net top rope. Net bottom rope shall be tensioned by means of a ratcheting style tensioner. For replacement Ratchet Net Tensioning Kit order VB1200RR. Each net side tape shall have internal fiberglass dowels and shall be tensioned by means of no less than two ratchet style rope tensioners per end.

Top and bottom net ropes shall be covered for player safety between the standards and the edge of the net by no less than 1/2" thick foam padding with white vinyl cover. Entire front and sides of the base and front of the structural upright shall be padded to a minimum height of 72" with a combination of 2" and 1" thick high density foam covered with vinyl in your choice of 16 colors. Padding can at no cost be printed with up to 10 letters per side. For replacement padding order VB51P. System shall include official boundary antennas. For replacement antennas order VB13. For Arena II Court Adder order VB810.

System weight shall be approximately 1500# per end. The padded base shall be approximately 40" wide in the back and taper to 17" wide in the front x 48" long. The total stored dimension shall be approximately 40" wide x 69" long x 80" high on the official's stand base and 51" high on the down official's side.

System shall carry a limited lifetime warranty on winch and steel bases, a 5-year padding warranty and a 2-year net and antenna warranty. Entire system shall meet or exceed all NCAA, USVBA, NFHS and FIVB specifications in effect at the date of this publication.

## **VB8102 Arena II Side-by-Side Double Court Freestanding Portable Volleyball System**

Entire system shall consist of two end base assemblies, one with built-in official's platform, one center post and base assembly, all safety padding, 2 nets, 2 pair of boundary antennae, center post assembly transport dolly, net tensioning winches and all necessary ballast. System shall also be capable of configuration as a single court with the omission of the center base/post assembly.

System shall be capable of providing elite competition level volleyball play without the use of additional loose ballast, floor hold downs or any wall or ceiling attachment. System shall be suitable for use on all floor systems designed for competition play including maple, molded square tile and synthetic and allow suspension of no less than 250# from the center of the net when fully tensioned without movement of the bases.

Primary end base structural steel components shall be a minimum of 4" x 2" tubing with a minimum 1/8" wall thickness. All pivot points to facilitate folding, transport and storage shall be 1 1/4" steel pins. Welded end bases shall provide fully enclosed ballast compartments that are properly loaded with ballast at the factory. System shall be capable of setup by one person. All steel components shall have a gray hammertone polyester powder coated finish. End bases shall rest on the floor when in the transport position on eight (8), 8" diameter, 2" wide urethane casters. When rolled into playing position, front of system shall be lowered to the floor onto two 15 3/4" x 2" urethane skid bars. Skid bars shall be lowered by means of lever action activated when the end poles are raised into the playing position.

The telescoping integral post design shall insure that no portion of the standards protrude above the top of the net at any net height setting on either end. The 3" steel outer tube shall have a minimum wall thickness of .22". The inner telescoping pole shall be 6061-T6 aluminum tubing and have a 2 1/2" OD with a .21" wall thickness. A pin in the outer tube shall ride in a machined slot in the inner tube to eliminate inner pole rotation and prohibit the inner tube from separating from the outer tube.

Center post/base assembly shall be constructed of heavy tubular and sheet steel with a gray hammertone polyester powder coated finish. The 3" OD steel and 2 1/2" OD aluminum inner posts shall have the same adjustability features as the posts on the end base assemblies and be fully padded to meet all applicable standards.

Net height shall be infinitely variable from a minimum of 80" to 98" with a single, spring assisted threaded release knob per post and have the capability of being locked into place at men's, women's and junior's height with a detent locking pin. Men's, women's and junior's height settings shall be clearly identified on the inner telescoping tube by machined markings.

The nets shall be one meter high, be constructed of black polypropylene 3.5mm knotless woven webbing, have a Kevlar top rope and a polypropylene bottom rope. The top ropes shall rest on rope saving top domes. The top, bottom and sides of the nets shall be finished with white-coated tarpaulin fabric with double stitched hemmed edges. The top of the nets shall be tensioned by means of machined winches with a 26:1 ratio worm gear mounted on each end standard. All winch shafts shall rotate in sealed ball bearings. Winches shall be designed to have a non removable folding handle and to tension to a 2" wide nylon webbing strap that is attached to the net top rope. Net bottom ropes shall be tensioned by means of ratcheting style tensioners. Each net side tape shall have internal fiberglass dowels and shall be tensioned by means of no less than two ratchet style rope tensioners per end.

Top and bottom net ropes shall be covered for player safety between the standards and the edge of the net by no less than 1/2" thick foam padding with white vinyl cover. Entire front and sides of the end bases and front of the structural upright shall be padded to a minimum height of 72" with a combination of 2" and 1" thick high density foam covered with vinyl in your choice of 16 colors. Padding can at no cost be printed with up to 10 letters per side. System shall include official boundary antennas.

Total system weight shall be approximately 3500#. The padded end bases shall be approximately 40" wide in the back and taper to 17" wide in the front x 48" long. The total stored dimension shall be approximately 40" wide x 69" long x 80" high on the official's stand base and 51" high on the down official's side.

System shall carry a limited lifetime warranty on winch and steel bases, a 5-year padding warranty and a 2-year net and antenna warranty.

## **Centerline Elite Aluminum Systems**

### **VB1000 (VB1000NS) Bison Centerline Elite Aluminum Volleyball System Applies Also to VB10 and VB100**

Standards shall be special 6063-T6 aluminum extrusions. The telescoping design shall insure that no portion of the standard protrudes above the top of the net at any net height setting on either end. The 3" outer tube shall have a .32" minimum wall thickness and have extruded flat surfaces on the inside diameter to eliminate inner pole rotation. The inner pole shall be extruded in a special shape to fit inside the outer pole, have machined markings for men's and women's playing heights, and have a minimum wall thickness of .4". A pin in the outer tube shall ride in a machined slot in the inner tube to prohibit the inner tube from separating from the outer tube. Inner tube shall have anodized finish. Outer tube shall have a powder coated finish. Bottom of outer tube shall be fitted with a threaded adjustment assembly with a non-marking rubber footpad to allow for fine tuning pole height, and to eliminate floor damage. Non-winch standards shall weigh a maximum 34# and winch end standard shall weigh a maximum of 39#.

The net shall be one meter high, be constructed of black polypropylene 3.5mm knotless woven webbing, have a Kevlar top rope and polypropylene bottom rope. For replacement net order VB1250K. The top rope shall rest in the groove of a dome shaped nylon rope guide on the top of each standard. The top, bottom and sides of the net shall be finished with white-coated tarpaulin fabric with double stitched hemmed edges. The top of the net shall be tensioned by means of an aluminum machined winch with a 26:1 ratio worm gear mounted on one end. All winch shafts shall rotate in sealed ball bearings. Winch shall be designed to wind a 2" wide nylon webbing strap that is attached to the net top rope and have a non removable folding handle. Net bottom rope shall be tensioned by means of a ratcheting style tensioner. Each net side tape with internal fiberglass dowels shall be tensioned by means of no less than two ratchet style rope tensioners. For replacement Ratchet Net Tensioning Kit order VB1200RR.

Net height shall be infinitely variable from a minimum of 72" to 96" with a single threaded release knob per standard and have the capability of being locked into place at men's and women's height with a detent locking pin. Height setting shall be clearly identified on the inner telescoping tube by machined markings.

Top and bottom ropes shall be covered for player safety between the standards and the edge of the net by no less than ½" thick foam padding with white vinyl cover. Each standard shall be padded to a minimum height of 72" with 1½" thick high-density foam covered with vinyl in your choice of 12 school colors. Padding can, at the option of purchaser, be printed in your choice of 5 colors with up to 10 letters per side. For replacement padding order VB51P. System shall include official boundary antennas. For replacement antennas order VB13.

Floor sockets (excluded on VB1000NS) shall be extruded aluminum. Floor plates (excluded on VB1000NS) shall be constructed of machined cast bronze with a hinged lid. Each system shall include free adapter sockets VB335 (3 ½" to 3"), VB340 (4" to 3"), VB354 (4" to 3 ½"). For socket depth adapter order VBDSS.

## **VB1002 (VB1002NS) Bison Centerline Side-by-Side Elite Aluminum Volleyball System**

Systems shall consist of three (3) standards, two (2) with winches and one (1) center post without a winch suitable for setup as two side-by-side volleyball courts.

Standards shall be special 6063-T6 aluminum extrusions. The telescoping design shall insure that no portion of the standard protrudes above the top of the net at any net height setting on either end. The 3" outer tube shall have a .32" minimum wall thickness and have extruded flat surfaces on the inside diameter to eliminate inner pole rotation. The inner pole shall be extruded in a special shape to fit inside the outer pole, have machined markings for men's and women's playing heights, and have a minimum wall thickness of .4". A pin in the outer tube shall ride in a machined slot in the inner tube to prohibit the inner tube from separating from the outer tube. Inner tube shall have anodized finish. Outer tube shall have a powder coated finish. Bottom of outer tube shall be fitted with a threaded adjustment assembly with a nonmarking rubber footpad to allow for fine tuning pole height, and to eliminate floor damage. Non-winch standards shall weigh a maximum 34# and winch end standard shall weigh a maximum of 39#.

Two (2) nets shall be one meter high, be constructed of black polypropylene 3.5mm knotless woven webbing, have a Kevlar top rope and polypropylene bottom rope. The top rope shall rest in the groove of 4" diameter aluminum pulleys on the top of each standard. The top, bottom and sides of the net shall be finished with white-coated tarpaulin fabric with double stitched hemmed edges. The top of the net shall be tensioned by means of an aluminum machined winch with a 26:1 ratio worm gear mounted on one end. All winch shafts shall rotate in sealed ball bearings. Winch shall be designed to wind a 2" wide nylon webbing strap that is attached to the net top rope and have a non removable folding handle. Net bottom rope shall be tensioned by means of a ratcheting style tensioner. Each net side tape with internal fiberglass dowels shall be tensioned by means of no less than two ratchet style rope tensioners.

Net height shall be infinitely variable from a minimum of 72" to 96" with a single threaded release knob per standard and have the capability of being locked into place at men's and women's height with a detent locking pin. Height setting shall be clearly identified on the inner telescoping tube by machined markings.

Top and bottom ropes shall be covered for player safety between the standards and the edge of the net by no less than ½" thick foam padding with white vinyl cover. Each standard shall be padded to a minimum height of 72" with 1½" thick high-density foam covered with vinyl in your choice of 12 school colors. Padding can, at the option of purchaser, be printed with up to 10 letters per side. System shall include 2 pair of official boundary antennas.

Three (3) floor sockets (excluded on VB1002NS) shall be extruded aluminum. Floor plates (excluded on VB1002NS) shall be constructed of machined cast bronze with a hinged lid. Order VB23 for additional floor sockets and plates. Each system shall include free adapter sockets to allow installation into existing 3 ½" or 4" floor sockets and free deep socket adapters upon request.

Standards and winch shall carry no less than a limited lifetime warranty. System shall have a 5-year padding warranty and a two year net and antenna warranty. Entire package shall weigh 230#.

Standards and winch shall carry no less than a limited lifetime warranty. System shall have a five-year padding warranty and a 2-year net and antenna warranty. Entire system shall meet or exceed all NCAA, USVBA, NFHS and FIVB requirements for competition.

Entire package shall weigh 145#.

## **Centerline Elite Steel Hybrid Systems**

### **VB2000 (VB2000NS) Bison Centerline Elite Steel Volleyball System**

#### **Applies Also to VB20 and VB200**

Standards shall be DOM welded steel tube. The telescoping design shall insure that no portion of the standard protrudes above the top of the net at any net height setting on either end. The 3" outer tube shall have a minimum wall thickness of .22" and have a powder coated finish. The inner pole shall be 6061-T6 aluminum tubing and have a 2- 1/2" OD with a .21" wall thickness. A pin in the outer tube shall ride in a machined slot in the inner tube to eliminate inner pole rotation and prohibit the inner tube from separating from the outer tube. Bottom of outer tube shall be fitted with a threaded adjustment assembly with a non-marking rubber footpad to allow for fine tuning pole height, and to eliminate floor damage. Non-winch standards shall weigh a maximum of 61# and winch end standard shall weigh a maximum of 66#.

The net shall be one meter high, be constructed of black polypropylene 3.5mm knotless woven webbing, have a Kevlar top rope and polypropylene bottom rope. For replacement net order VB1250K. The top rope shall rest in the groove of 4" diameter aluminum pulleys on the top of each standard. The top, bottom and sides of the net shall be finished with white-coated tarpaulin fabric with double stitched hemmed edges. The top of the net shall be tensioned by means of an aluminum machined winch with a 26:1 ratio worm gear mounted on one end. All winch shafts shall rotate in sealed ball bearings. Winch shall be designed to wind a 2" wide nylon webbing strap that is attached to the net top rope and have a non removable folding handle. Net bottom rope shall be tensioned by means of a ratcheting style tensioner. Each net side tape shall have internal fiberglass dowels and shall be tensioned by means of no less than two ratchet style rope tensioners per end. For replacement Ratchet Net Tensioning Kit order VB1200RR.

Net height shall be infinitely variable from a minimum of 72" to 96" with a single threaded release knob per standard and have the capability of being locked into place at men's and women's height with a detent locking pin. Height setting shall be clearly identified on the inner telescoping tube by machined markings.

Top and bottom ropes shall be covered for player safety between the standards and the edge of the net by no less than 1/2" thick foam padding with white vinyl cover. Each standard shall be padded to a minimum height of 72" with 1 1/2" thick high-density foam covered with vinyl in your choice of 12 school colors. Padding can, at the option of purchaser, be printed with up to 10 letters per side. For replacement padding order VB51P. System shall include official boundary antennas. For replacement antennas order VB13.

Floor sockets (excluded on VB2000NS) shall be aluminum extrusions. Floor plates (excluded on VB2000NS) shall be constructed of machined cast bronze with a hinged lid. Each system shall include free adapter sockets VB335 (3 1/2" to 3"), VB340 (4" to 3"), VB354 (4" to 3 1/2"). For socket depth adapter order VBDSS.

System shall carry no less than a limited lifetime warranty on winch and standards. System shall have a 5-year padding warranty and a two-year net and antenna warranty.

Entire system shall meet or exceed all NCAA, USVBA, NFHS and FIVB requirements for competition.

Entire package shall weigh 220#.

## **VB2002 (VB2002NS) Bison Centerline Side-by-Side Elite Steel Volleyball System**

Systems shall consist of three (3) standards, two (2) with winches and one (1) center post without a winch suitable for setup as two side-by-side volleyball courts.

Standards shall be DOM welded steel tube. The telescoping design shall insure that no portion of the standard protrudes above the top of the net at any net height setting on either end. The 3" outer tube shall have a minimum wall thickness of .22" and have a powder coated finish. The inner pole shall be 6061-T6 aluminum tubing and have a 2-½" OD with a .21" wall thickness. A pin in the outer tube shall ride in a machined slot in the inner tube to eliminate inner pole rotation and prohibit the inner tube from separating from the outer tube. Bottom of outer tube shall be fitted with a threaded adjustment assembly with a non-marking rubber footpad to allow for fine tuning pole height, and to eliminate floor damage. Nonwinch standards shall weigh a maximum of 61# and winch end standard shall weigh a maximum of 66#.

Two nets shall be one meter high, be constructed of black polypropylene 3.5mm knotless woven webbing, have a Kevlar top rope and polypropylene bottom rope. The top rope shall rest in the groove of 4" diameter aluminum pulleys on the top of each standard. The top, bottom and sides of the net shall be finished with white-coated tarpaulin fabric with double stitched hemmed edges. The top of the net shall be tensioned by means of an aluminum machined winch with a 26:1 ratio worm gear mounted on one end. All winch shafts shall rotate in sealed ball bearings. Winch shall be designed to wind a 2" wide nylon webbing strap that is attached to the net top rope and have a non removable folding handle. Net bottom rope shall be tensioned by means of a ratcheting style tensioner. Each net side tape shall have internal fiberglass dowels and shall be tensioned by means of no less than two ratchet style rope tensioners per end.

Net height shall be infinitely variable from a minimum of 72" to 96" with a single threaded release knob per standard and have the capability of being locked into place at men's and women's height with a detent locking pin. Height setting shall be clearly identified on the inner telescoping tube by machined markings.

Top and bottom ropes shall be covered for player safety between the standards and the edge of the net by no less than ½" thick foam padding with white vinyl cover. Each standard shall be padded to a minimum height of 72" with 1½" thick high-density foam covered with vinyl in your choice of 12 school colors. Padding can, at the option of purchaser, be printed with up to 10 letters per side. System shall include two pair official boundary antennas.

Three (3) floor sockets (excluded on VB2002NS) shall be aluminum extrusions. Floor plates (excluded on VB2002NS) shall be constructed of machined cast bronze with a hinged lid. Order VB23 for additional floor sockets and plates. Each system shall include free adapter sockets to allow installation into existing 3 ½" or 4" floor sockets and free deep sockets adapters upon request.

System shall carry no less than a limited lifetime warranty on winch and standards. System shall have a five-year padding warranty and a 2-year net and antenna warranty.

Entire system shall meet or exceed all NCAA, USVBA, NFHS and FIVB requirements for competition. Entire package shall weigh 310#.

## **Centerline Magic Systems**

### **Centerline Magic Self Storing Volleyball System Specifications (VB4000, VB4002, VB40, VB400)**

System shall be designed so that the poles telescope into permanent floor wells that recede no more than 34" below the playing surfaces when not in use, eliminating the need to transport the poles from and to storage for set up and tear down.

Each pole shall be constructed of five 6061-T6 aluminum tubes each machined for a smooth telescoping operation and then hard coated for durability. Each pole section shall have a minimum wall thickness of 1/4" after machining to insure rigidity and durability.

Floor well shall be constructed of 6061-T6 aluminum, have a water tight sealed bottom plate and allow the inner telescoping poles to be removable for service if needed.

Each pole section shall telescope with the mating pole section by manually lifting approximately 20" and then rotating approximately 10° to lock in place. The top telescoping section shall be adjustable in 1/2" increments by means of a spring loaded release pin. Additional adjustment in 1/16" increments shall be achieved by 180° rotation of the top rope guide. Design shall incorporate features to control the downward momentum of the pole sections as they are released and lowered.

When not in use, the floor well and pole shall be concealed under a hinged brass floor plate permanently attached to the floor.

Net top rope tensioning shall be accomplished by means of a 26:1 backlash free, fully machined worm gear winch with a folding attached handle mechanism.

Top rope, winch, kevlar top rope net, antennae, boundary markers and side tape tensioners shall be stored in a zippered carrying case and all be capable of setup without tools by a single person.

Padding, poles, net, and antennae shall all meet NCAA, USVBA and National High School Federation rules for all levels of play.

## **CarbonMax Composite Systems**

### **VB7000 (VB7000NS) Complete Bison CarbonMax™ Volleyball System**

#### **Applies Also VB70 and VB700**

Uprights shall consist of an external 3 ½" outside diameter, ¼" wall high modulus carbon fiber wound composite tube and a 3" outside diameter 6061-T6 aluminum telescoping clear anodized inner pole. Inner pole shall move freely up and down to adjustment heights between 6' 6" and 8' 2" by means of an internal bevel gear and lead screw mechanism activated by a low-profile, non-removable winch handle. Net height adjustment shall be possible with net attached and fully tensioned. A heavy wall 3" outside diameter 6061-T6 aluminum extrusion shall be permanently bonded and protrude 10" below the external composite tube to allow installation into any 3" diameter floor socket. Adapters to allow installation into 3 ½" and 4" sockets shall be available at no extra cost.

The net shall be one meter high, be constructed of black polypropylene 3.5mm knotless woven webbing, have a Kevlar top rope and polypropylene bottom rope. For replacement net order VB1250K. The top rope shall be contained in a machined slot on an antifriction top dome. The top, bottom and sides of the net shall be finished with whitecoated tarpaulin fabric with double stitched hemmed edges. The top of the net shall be tensioned by means of an aluminum machined winch with a 26:1 ratio worm gear mounted on one end. All winch shafts shall rotate in sealed ball bearings. Winch shall be designed to wind a 2" wide nylon webbing strap that is attached to the net top rope and have a non-removable folding handle. Net bottom rope shall be tensioned by means of a ratcheting style tensioner. Each net side tape with internal rigid dowels shall be tensioned by means of no less than two ratchet style rope tensioners. For replacement Ratchet Net Tensioning Kit order VB1200RR. Height setting shall be clearly marked on the inner telescoping tube.

Top and bottom ropes shall be covered for player safety between the standards and the edge of the net by no less than ½" thick foam padding with white vinyl cover. Each standard shall be padded to a minimum height of 72" with 1½" thick high-density foam covered with vinyl in your choice of 12 school colors. Padding can, at the option of purchaser, be printed with up to 10 letters per side at no extra cost. For replacement padding order VB51P. System shall include official boundary antennas. For replacement antennas order VB13.

Floor sockets (if applicable) shall be extruded aluminum. Floor plates (if applicable) shall be constructed of machined cast bronze with a hinged lid. Floor socket adapters include: VB335 (3½" to 3"), VB340 (4" to 3"), VB354 (4" to 3½"). For socket depth adapter order VBDSS. Standards and winch shall carry no less than a limited lifetime warranty. System shall have a 5-year padding warranty and a 2-year net and antenna warranty. Entire system shall meet or exceed all NCAA, USVBA, and NFHS requirements for competition. Entire Package shall weigh 140#.

### **VB7002 (VB7002NS) Bison Side-by-Side CarbonMax™ Volleyball System**

Systems shall consist of three (3) Standards, two (2) with winches and one (1) center post without a winch suitable for setup as two side-by-side courts, or a single court.

Uprights shall consist of an external 3½" outside diameter, ¼" wall high modulus carbon fiber wound composite tube and a 3" outside diameter 6061-T6 aluminum telescoping clear anodized inner pole. Inner pole shall move freely up and down to adjustment heights between 6' 6" and 8' 2" by means of an internal bevel gear and lead screw mechanism activated by a low-profile, non-removable winch handle. Net height adjustment shall be possible with net attached and fully tensioned. A heavy wall 3" outside diameter 6061-T6 aluminum extrusion shall be permanently bonded and protrude 10" below the external composite tube to allow installation into any 3" diameter floor socket. Adapters to allow installation into 3½" and 4" sockets shall be available at no extra cost.

The nets shall be one meter high, be constructed of black polypropylene 3.5mm knotless woven webbing, have a Kevlar top rope and polypropylene bottom rope. The top rope shall be contained in a machined slot on an anti-friction top dome. The top, bottom and sides of the net shall be finished with white-coated tarpaulin fabric with double stitched hemmed edges. The top of the net shall be tensioned by means of an aluminum machined winch with a 26:1 ratio worm gear mounted on one end. All winch shafts shall rotate in sealed ball bearings. Winch shall be designed to wind a 2" wide nylon webbing strap that is attached to the net top rope and have a non-removable folding handle. Net bottom rope shall be tensioned by means of a ratcheting style tensioner. Each net side tape with internal rigid dowels shall be tensioned by means of no less than two ratchet style rope tensioners. Height setting shall be clearly marked on the inner telescoping tube.

Top and bottom ropes shall be covered for player safety between the standards and the edge of the net by no less than ½" thick foam padding with white vinyl cover. Each standard shall be padded to a minimum height of 72" with 1½" thick high-density foam covered with vinyl in your choice of 12 school colors. Padding can, at the option of purchaser, be printed with up to 10 letters per side at no extra cost. System shall include official boundary antennas.

Floor sockets (if applicable) shall be extruded aluminum. Floor plates (if applicable) shall be constructed of machined cast bronze with a hinged lid. Standards and winch shall carry no less than a limited lifetime warranty. System shall have a five-year padding warranty and a two year net and antenna warranty. Entire system shall meet or exceed all NCAA, USVBA, and NFHS requirements for competition. Entire Package shall weigh 140#.

## **Lady CarbonMax Composite Systems**

### **VB3000 (VB3000NS) Complete Bison Lady CarbonMax™ Volleyball System**

#### **Applies Also to VB30, VB300, VB3002, and VB3002NS**

Uprights shall consist of an external 3½" outside diameter, ¼" wall high modulus carbon fiber wound composite tube. A heavy wall 3" outside diameter 6061-T6 aluminum extrusion shall be permanently bonded inside the bottom and protrude 10" below the composite tube to allow installation into any 3" diameter floor socket. A threaded footpad shall be located on the bottom of the extrusion to provide fine adjustment for proper women's net height. Adapters to allow installation into 3½" and 4" sockets shall be available at no extra cost. The net shall be one meter high, be constructed of black polypropylene 3.5mm knotless woven webbing, have a Kevlar top rope and polypropylene bottom rope. For replacement net order VB1250K. The top rope shall be contained in a machined slot on an anti-friction top dome. The top, bottom and sides of the net shall be finished with white-coated tarpaulin fabric with double stitched hemmed edges. The top of the net shall be tensioned by means of an aluminum machined winch with a 26:1 ratio worm gear mounted on one end. All winch shafts shall rotate in sealed ball bearings. Winch shall be designed to wind a 2" wide nylon webbing strap that is attached to the net top rope and have a non-removable folding handle. Net bottom rope shall be tensioned by means of a ratcheting style tensioner. For replacement Ratchet Net Tensioning Kit order VB1200RR. Each net side tape with internal rigid dowels shall be tensioned by means of no less than two ratchet style rope tensioners. Top and bottom ropes shall be covered for player safety between the standards and the edge of the net by no less than ½" thick foam padding with white vinyl cover. Each standard shall be padded to a minimum height of 72" with 1½" thick high-density foam covered with vinyl in your choice of 12 school colors. Padding can, at the option of purchaser, be printed with up to 10 letters per side at no extra cost. For replacement padding order VB51P. System shall include official boundary antennas. For replacement antennas order VB13. Floor sockets (if applicable) shall be extruded aluminum. Floor plates (if applicable) shall be constructed of machined cast bronze with a hinged lid. Floor socket adapters include: VB335 (3½" to 3"), VB340 (4" to 3"), VB354 (4" to 3½"). For socket depth adapter order VBDSS. Standards and winch shall carry no less than a limited lifetime warranty. System shall have a 5-year padding warranty and a 2-year net and antenna warranty. Entire system shall meet or exceed all NCAA, USVBA, and NFHS requirements for competition. Entire Package shall weigh 140#.

## **Match Point Aluminum System**

### **VB6000 (VB6000NS) Match Point Aluminum Stationary Competition Volleyball System**

#### **Applies Also to VB60, VB600, VB6002, VB6002NS**

System shall consist of the following components: Posts shall be constructed of a special 3½" OD 6063-T6 aluminum extrusion with a net adjusting track running the full length of the pole to facilitate infinite adjustment from tennis height (42") to men's competition volleyball (7' 11 5/8"). Height adjustment shall be accomplished by a single locking lever on each post. Top net rope shall be tightened using a worm gear style winch with a 2" wide nylon strap. Aluminum pole shall have a gold anodized finish. Top and bottom of pole shall be fitted with plastic floor protective inserts. Posts shall carry a 10-year limited warranty. Floor sockets (excluded on VB6000NS) shall consist of an aluminum socket assembly and a hinged bronze floor plate assembly. Floor socket adapters include: VB335 (3½" to 3"), VB340 (4" to 3"), VB354 (4" to 3½"). For socket depth adapter order VBDSS. The net shall be one meter high, be constructed of black polypropylene 3.5mm knotless woven webbing, have a Kevlar top rope and polypropylene bottom rope. For replacement net order VB1250K. Bottom rope and net side tapes shall be tightened by means of ratcheting style tensioners. or replacement Ratchet Net Tensioning Kit order VB1200RR. Padding for posts shall conform to all NCAA and National Federation of State High School Associations rules and be available in 12 school colors. For replacement padding order VB51P. Material is 1½" thick high-density foam with a heavy vinyl cover. Antennas shall conform to all applicable rules. For replacement antennas order VB13. Entire system shall weight 155#.

**VB6050 (VB6050NS) Recreational Aluminum Stationary Volleyball/Tennis Package**

System shall consist of the following components: Posts shall be constructed of a special 3 ½" OD 6063-T6 aluminum extrusion with a net adjusting track running the full length of the pole to facilitate infinite adjustment from tennis height (42") to men's competition volleyball (7' 11 5/8"). Height adjustment shall be accomplished by a single locking lever on each post. Top net rope shall be tightened using a worm gear style winch with a 2" wide nylon strap. Bottom rope and net shall be tightened by means of ratcheting style tensioners. Aluminum pole shall have a gold anodized finish. Top and bottom of pole shall be fitted with plastic floor protective inserts. Posts shall carry a 10-year limited warranty. Floor sockets (excluded in VB6050NS) shall consist of an aluminum socket assembly and an aluminum socket cap. The net shall be one meter high, be constructed of black polypropylene 3.5mm knotless woven webbing, have a Kevlar top rope and polypropylene bottom rope. Entire system shall weigh 145#.

## **Outdoor Volleyball Systems**

### **SVB2000A Sand Bar Outdoor Aluminum Volleyball System**

Posts shall be constructed of 3½" diameter extruded aluminum with an integral track to facilitate net height adjustment from 6'6" to 7' 11 5/8". Posts shall have a powder coated finish and be suitable for burying directly into the ground or made removable using optional VB21 ground sleeves. 36" high x 32' long net shall be attached to a slider bar that shall raise and lower in the post track to adjust net. Top rope of net shall be tensioned by means of a pulley and rope cleat. For replacement net order SVB08. System shall have a 2-year limited warranty and weigh 110# each.

### **SVB210 Sand Volleyball Ground Socket**

Ground sockets shall be constructed out of a 4" outside diameter steel tube with a galvanized finish and have an interior diameter of 3.76". Product is 52" long providing for depth in a sand volleyball court and proper drainage. A durable plastic cap is provided to keep sand out. Each socket shall weigh approximately 35#.

### **SVB5000 Match Point Outdoor Competition Volleyball System**

#### **Applies Also to SVB500**

System shall consist of the following components: Posts shall be constructed of 3 ½" OD, 8 ga. galvanized steel tube. A net adjusting track shall be welded to the pole to facilitate net adjustment from recreational 6'6" height to competition men's volleyball height (7' 11 5/8"). Height adjustment shall be accomplished by a single locking lever on each post. Top net rope shall be tightened using a worm gear style winch with a 2" wide nylon strap. All steel parts shall have a powder coated finish. Posts shall carry a 5-year limited warranty. The net shall be one meter high, be constructed of black polypropylene 3.5mm knotless woven webbing, have a Kevlar top rope and polypropylene bottom rope. For replacement net order VB1250K. Bottom rope and net side tapes shall be tightened by means of ratcheting style tensioners. For replacement Ratchet Net Tensioning Kit order VB1200RR. Padding for posts shall conform to all NCAA and National Federation of State High School Associations rules and be available in 12 school colors. Material is 1½" thick high density foam with a heavy vinyl cover. For replacement padding order VB51P. Antennas shall conform to all applicable rules. For replacement antennas order VB13. Entire system shall weigh 260#.

## **SVB5050 Recreational Outdoor Volleyball System**

### **Applies Also to SVB500**

System shall consist of the following components: Posts shall be constructed of 3½" OD, 8 ga. galvanized steel tube. A net adjusting track shall be welded to the pole to facilitate net adjustment from recreational 6'6" height to competition men's volleyball height (7' 11 5/8"). Height adjustment shall be accomplished by a single locking lever on each post. Top net rope shall be tightened using a worm gear style winch with a 2" wide nylon strap. All steel parts shall have a powder coated finish. Posts shall carry a 5-year limited warranty. The net shall be one meter high, be constructed of black polypropylene 3.5 mm knotless woven webbing, have a Kevlar top rope and polypropylene bottom rope. For replacement net order VB1250K. Bottom rope and net side tapes shall be tensioned by means of ratcheting style tensioners. For replacement Ratchet Net Tensioning Kit order VB1200RR. For Court Boundary Kit order SVB28. For antennae order VB13. For post padding order VB51P. Entire system shall weigh 225#.

## **Volleyball Sockets**

### **SVB210 Sand Volleyball Ground Socket**

Ground sockets shall be constructed out of a 4" outside diameter steel tube with a galvanized finish and have an interior diameter of 3.76". Product is 52" long providing for depth in a sand volleyball court and proper drainage. A durable plastic cap is provided to keep sand out. Each socket shall weigh approximately 35#.

### **VB23 3" Volleyball Floor Socket and Cover Plate**

Floor sockets shall be extruded aluminum with an interior diameter of 3". Cover plates shall be constructed of machined cast bronze with a hinged lid with a minimum opening of 6". For Hinged Brass Floor Plate order VB23-CV. When assembled for installation, the assembly shall be fixed for a socket depth of 10" from the finished floor to the bottom of the socket. Each assembly shall weigh approximately 8#.

### **VB26 3-1/2" Volleyball Floor Socket and Cover Plate**

Floor sockets shall be extruded aluminum with an interior diameter of 3-1/2". Cover plates shall be constructed of machined cast bronze with a hinged lid with a minimum opening of 6". For Hinged Brass Floor Plate order VB23-CV. When assembled for installation, the assembly shall be fixed for a socket depth of 10" from the finished floor to the bottom of the socket. Each assembly shall weigh approximately 8#.

### **VB27 4" Volleyball Floor Socket and Cover Plate**

Floor sockets shall be extruded aluminum with an interior diameter of 4". Cover plates shall be constructed of machined cast bronze with a hinged lid with a minimum opening of 6". For Hinged Brass Floor Plate order VB23-CV. When assembled for installation, the assembly shall be fixed for a socket depth of 13" from the finished floor to the bottom of the socket. Each assembly shall weigh approximately 8#.

## **Team Handball**

### **SCTEAMHB Official Team Handball Goal**

Face of goal shall be constructed of 3" square extruded 6063-T6 aluminum with minimum  $\frac{3}{4}$ " corner radii for safety and a minimum wall thickness of .080". Extrusion shall have a net track extruded in the rear side to allow net attachment using specially design clips included with each system. Goal shall have a 3 meter wide x 2 meter high opening. Rear structure shall be constructed of 1.66 diameter aluminum extrusion with extruded net track and provide a 80cm top depth and a 100cm bottom depth. Goal is constructed to allow easy disassembly and storage using quick release pins. All standard components of goal shall have a white textured powder coated finish with official black markings for Team Handball. Goal shall carry a two-year warranty. Standard features shall include molded net attachment clips, rear stabilizer bars, rubber footpads to protect finished floors, nets, and ballast bags to secure goals in place during play. System shall weigh approximately 175#/pair.