

## **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#.