

## **Instrument**

### **Rim**

Made entirely from hard rock maple and mahogany; laminations; continuous bent, both inner & outer form one single rim; unequaled strength and stability.

### **Braces**

4 solid spruce; spruce provides tensile strength with less weight. Maple dowels fasten braces to rim producing a single homogenous foundation upon which is built the entire tonal component. A cast iron treble bell, affixed to rim's underside at treble bend, holds plate firmly in position by means of a steel bolt. The S & S iron wedge anchors brace ends securely to crossblock assuring permanent rim posture.

### **Pinblock**

Hexagrip patented design; 6 laminations of quartered hardrock maple and bubinga stock. Grain symmetrically distributed at successive angles of 45° or 90° employing grain direction uniformly around the circumference of the tuning pin to provide the ultimate in pin grippage. As a result of this exclusive design, the tuning pin has smoother movement under torque, a more uniform retaining which will hold its tuning longer.

### **Soundboard**

Created like the soundboard of violins to give a free and even response throughout the entire scale, it is so constructed as to be 9 mm thick in the center and tapered to 6 mm as it approaches the rim and outer case before being DOUBLE CROWNED. This design permits complete freedom of movement, while acting as a homogenous unit to displace a greater amount of air, thereby creating a richer and more lasting tonal response. Close-grained, quarter-sawn Sitka or European spruce, a wood having unusual stability and vibrance under stress and vibration, is used exclusively for the soundboard.

### **Ribs**

Made from durable spruce to assure strong and constant support of string down-bearing on the soundboard. Rib ends are hand-fitted into their mounting surfaces virtually locking in the important soundboard crown.

### **Bridges**

Treble: Hard rock maple vertical laminations capped with solid hard rock maple; planed to prescribed height, graphite coated, drilled, and notched by hand for precise individual string bearing. Design defies splitting. Bass: Continuous with treble. Maple doweled, glued, and screwed to soundboard.

### **Scale**

Overstrung; combination agraffe; Front AND rear duplex. Tension: 19,000 kg.

**Plate**

Sturdy gray iron; filled, CNC-milled, and sealed; bronzed and lacquered.

**Tuning Pins**

Premium steel with rust-resistant, nickeled heads.

**Strings**

TREBLE: from high-tensile Swedish and American steel. BASS: Swedish steel core wire wound with pure copper.

**Hammers**

Premium wool top felt over premium wool under felt; treated to resist insects. Compression-wired to retain permanent shape. Hard rock maple moldings. Shanks from select hornbean and maple.

**Dampers**

Horizontal-cut premium wool for effective dampening. Bubinga heads for endurance.

**Action**

White, quarter-sawn hornbean parts are bushed with specially treated wool action cloth for freedom from friction. Parts are anchored in hard bubinga dowels housed in inflexible seamless brass tubing to assure precise & stable regulation. Exclusive single, combination phosphor bronze repetition and fly spring provides constant crisp touch response. Specially designed to respond 14% faster fortissimo and 6% faster pianissimo.

**Keys**

European spruce, individually weighed-off. Chip-proof, stain-resistant coverings for naturals; slip-proof, delicately abraded ebonized sharps.

**Keybed**

Made from planks of stable, quarter-sawn spruce. Horizontal planks are freely mortised together, while their ends are permanently mortised into vertical planks, presenting a vented system for humidity escapement while allowing for necessary expansion and contraction. Front center is crowned contrasting the reverse-crowned action frame for snug fit. This design intensifies key movement and prevents "slapping" during heavy playing. Large beech dowel ends provide a solid mount for adjustable brass touch-regulating screws. Thickness: 1-3/4" (42 mm).

**Pedals**

Heavy, solid brass. Soft, sustaining, and full sostenuto.

**Dimensions**

**Height** 40" (102 cm)  
**Length** 6' 2" (188 cm)  
**Width** 57 3/4" (147 cm)  
**Depth**  
**Net Weight** 695 pounds (315 kg)

## Encasement

**Furniture** Ebonized or Crown Jewel Collection veneer.  
**Panel**  
**Stock** Quarter-sawn poplar corewood crossbanded and face veneered.  
**Solids** Ebonized birch or maple  
**Legs** Ebonized beech. Locking devices.  
**Finish** Heavy full-bodied black or clear polyester (Hamburg); hand-rubbed lacquer (U.S.)  
**Hardware** Solid brass; polished & lacquered.

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