

Elderhorst Bells, Inc.
875 Gravel Pike
Palm, PA 18070
Phone: 1-800-810-7892 Fax: 215-679-3692
E-Mail: info@elderhorstbells.com Web site: www.elderhorstbells.com

Item # New Cast Bronze Bells, Cast Bronze Bells



Cast Bronze Bells

Elderhorst Bells, Inc. works with the major European bell foundries to provide the finest new precision tuned church or tower bells available. We also supply bell ringing equipment for existing or "used" bells.

Bells are rung in several ways: The traditional ringing method is to swing the bell. This can be done by rope ringing, or, the bell can be swung electrically. Elderhorst Bells, Inc. supplies complete swinging bell "packages" with bells from 18" diameter to as large as will fit in your tower.

The second bell ringing method is to stationary mount the bell. In this case, the bell is struck by either a "gravity"hammer manually, or by means of an electro-magnetic clapper/hammer. The stationary bell ringing system may be easier to install because there are less moving parts and less adjustments required.

Elderhorst Bells, Inc. supplies a full line of controls for automatic play of electrically rung bells.. All of our user programmable automatic bell ringing systems feature a quartz based clock with lithium battery backup for automatic time correction following power failure, automatic daylight savings time correction, and automatic programming protection. Wireless remote controls allow for easy control of bell peals or funeral tolls.

BELL SPECIFICATIONS

- Cast bronze bell composed from new pure copper and block tin; minimum percentage of tin 19-22 percent graduating from large to small with balance of copper. Casting methods shall include special gate located filtering system to keep impurities out of the mold.
- Bell will be tuned to the system of equal temperament on the basis of A4=440hz. The fundamental (hum tone) is tuned to the proper pitch within a tolerance of -0 to +3 cents.
- The Partial of the prime and nominal shall not deviate from the perfect octave relationship with the hum tone by more than +/-1 cent.
- The Partial of the tierce shall be related according to a tempered minor third partial above the prime with a tolerance of - 0 to +3 cents.
- The Partial of the fifth shall be a tempered perfect fifth interval of the prime within a tolerance of 0 to +3 cents.
- Bell will have a smooth, clean finished, unpainted surface showing the purity of the casting and true color of the high quality bell bronze.

NEW ROPE RUNG BELL SWINGING MOUNTINGS

- Swinging frame and headstock to be fabricated of structural steel - designed to optimize the ease of swinging the bell and the sound of the bell tone to eliminate double-strikes without requiring the use of clapper springs or other devices within the bell.
- Sealed, self aligning pillow block bearings are provided.
- All steel components are finished with an air dry alkyd based rust resistant primer and topcoat.

STATIONARY MOUNTING

- Dependent on application - drawings/specifications required.
- Isolation bracket mounting- support fabricated of structural steel with heavy machine type mounting pads or neoprene isolation as required.