

Spirit 1503 Dental Chair (Project 02-17) (10/04)

The Spirit 1503 Dental Chair is a cantilever-based hydraulic dental chair engineered around a cast-iron frame. The ultra-thin narrow back provides optimal access for the dental provider and the plush upholstery provides optimal comfort for the patient. Features include an electronic programmable four-position foot switch, an adjustable double-articulating headrest, and 180-degree swing out armrests for easy patient entrance and exit. The chair has a 60-degree rotational swivel feature with a positive lock brake. A cantilever safety plate automatically stops the chair from lowering if resistance is encountered. The seat height adjusts between 15-32 inches off the floor. The chair is available in light grey or white color schemes. The model 1503 is part of Pelton and Cranes mid-priced Spirit 1500 series dental chairs. The chair is available in both 115- and 230-volt configurations and is compatible with both 50 and 60 Hertz.



Manufacturer:

Pelton & Crane
11727 Fruehauf Drive
PO Box 7800
Charlotte, NC 28241-7800
(800) 659-6560
(704) 588-2126
(704) 587-7204 FAX
www.pelton.net

Suggested Retail Price:

\$5,685.00 with plush upholstery

Government Price:

\$3,022.00 with plush upholstery

ADVANTAGES:

- + Well designed; providing adequate clinical function
- + Ergonomically-friendly, ultra-thin, narrow backrest enhances provider access
- + Provides smooth movement to all positions
- + Stable in all operating positions
- + Clinical evaluators reported that patients found the chair comfortable
- + Swing-out armrest provides easy access for patients
- + Four programmable presets for chair positioning
- + "Learn" button aides in programming chair
- + Easy left-to-right conversion
- + Esthetically pleasing
- + Meets most military specifications for dental patient chairs
- + Straightforward assembly
- + Less expensive than comparable chairs on federal government contract
- + Well-written, easy to use instruction manual

DISADVANTAGES:

- Tipping can occur if manufacturers recommendations not followed
- Chair-mounted touch pad is an optional accessory
- Pre-programming features can be confusing with users unfamiliar with the operating manual

- "Learn" button is difficult to see on both the footswitch and touch pad
- Installation manual does not list electrical requirements and functional testing procedures
- No detailed and organized Service and Parts Manual
- Some clinical evaluators found the headrest difficult to adjust

SUMMARY AND CONCLUSIONS:

The Spirit 1503 is a solidly built stable dental chair that is esthetically pleasing and competitively priced. It met all electrical safety requirements and most of the pertinent requirements of Medical Procurement Item Description #2. The chair was easy to assemble and the provided documentation was clear and complete. The chair generally functioned well during laboratory testing. Clinical evaluators appreciated its smooth movement, ergonomically friendly ultra-thin narrow back design, and patient comfort features. The **Pelton and Crane Spirit 1503** Dental Chair would make a nice addition to any dental clinic and is rated **Acceptable** for use by the federal dental services.