

**Pelton & Crane Spirit 3004 Dental Chair (Project 05-37) (6/06)**



Pelton & Crane recently introduced its 3000-series of cantilever-based, hydraulic dental chairs engineered around a cast aluminum baseplate and cast metal seatback. Having all the 3000-series features, the Spirit 3004 is differentiated only by its narrow seatback and seamless naugehyde upholstery, which can be upgraded to ultra-leather. The armrests slide to the rear for easy patient entry and exit. Headrest options include a flat-magnetic headrest or a double-articulating headrest with quick-release button that allows adjustments in four directions. Two standard chair-control touchpads, for manual and programmable positioning, are integrated into the backrest support bars on the left and right side. As a safety feature, Pelton & Crane incorporates a "Secure Touch" feature into the touchpad to prevent inadvertent chair activation. A control-head mounted touchpad and foot-control are optional. The chair swivels up to 30° in either direction and uses an electronic brake for locking and unlocking. The Spirit 3004 dental chair weighs 360 lbs, requires 115/230 VAC, 50/60 Hz, 7/3.5 Amps, and has a five-year warranty (one-year on upholstery).



**Manufacturer:**

Pelton & Crane  
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Charlotte, NC 28273  
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(704) 588-2126  
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[www.pelton.net](http://www.pelton.net)

**Suggested Retail Price:**

\$6,450.00 Spirit 3004 Dental Chair (item number 90-2020)  
\$475.00 Touchpad, control-head mounted (item number 04200)

**Government Price:**

\$4,515.00 Spirit 3004 Dental Chair (item number 90-2020)  
\$248.00 Touchpad, control-head mounted (item number 04200)

**ADVANTAGES:**

- + Narrow backrest enhances provider access
- + Smooth movement, stable in all operating positions
- + Chair-base design with horizontal swivel feature provides positioning versatility
- + Patients reported the chair to be comfortable
- + Chair proved reliable throughout evaluation
- + Easy-to-position double-articulating headrest with Quick Release button
- + Armrests with rear-sliding feature provide good support and enhance patient entry/exit
- + Two standard integrated touchpads with multiple manual and automatic positioning options
- + Vinyl scuff-cover easily removed and replaced
- + Informative, easy-to-use instruction manual
- + Straightforward assembly
- + Meets the majority of military specifications for dental chairs
- + Competitively priced with other chairs on the federal dental services contract
- + 5-year warranty on chair, 1-year on upholstery

**DISADVANTAGES:**

- Accessing the integrated touchpad may be awkward for some
- “Secure Touch” safety feature adds an extra step in activating chair-control touchpad
- Lowest chair position is 1.5” higher when integrated with the Ellipse delivery unit

**SUMMARY AND CONCLUSIONS:**

The Pelton & Crane Sprit 3004 dental chair is ergonomically-designed with a narrow backrest, rear-sliding armrests, and duo-integrated touchpads. Headrest options include flat-magnetic or double-articulating with quick-release button for easy positioning. The Spirit 3004 dental chair was easily assembled, met all electrical safety requirements, and was found to be solidly constructed. There were no maintenance issues and it proved to be reliable throughout the clinical evaluation. Evaluators appreciated its smooth stable operation and easily adjustable double-articulating headrest. The rear-sliding armrests provided good arm support and allowed easy patient entry and exit. Some evaluators found the integrated touchpad location to be awkward and noted the extra step required in using the “Secure Touch” safety feature. For these reasons, the optional control-head mounted touchpad without the “Secure Touch” feature should be considered when ordering. The **Spirit 3004 dental chair** is well designed, competitively priced, and is rated **Excellent** for use in US Air Force dental facilities.