# An Analysis Of Roger Clemens' Pitching Motion \& Mechanics 

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## General Comments About Roger Clemens

- 6' 4"
- 220 lbs .
- 7 Cy Young awards.
- Injuries...
- Strained hamstring (2005).
- $\quad$ Sore back (2005).
- Groin injury (2002).
- Groin injury (1993).
- Inflamed elbow (1993).
- Torn rotator cuff ( $\qquad$ _).
- Missed most of 1985 season with $\qquad$ injury (only second year in major leagues).
- Pitches...
- Currently throws...

Fastball (still 94-96 MPH).
Split finger fastball (88-89 MPH).

- No longer throws...

Curveball
Slider

## Comments About Roger Clemens' Pitching Motion And Mechanics

- Motion and timing has changed significantly over time.
- Timing is very different if you compare his years in Boston versus his years in Houston.
- Shoulders have levelled out over time.
- Currently almost no reverse-rotation.
- Looking at his motion while he was in Boston, he appears to start rotating his shoulders before his arm is up and in the high cocked position, which may explain his shoulder problems.
- This will worsen his Reverse Pitching Forearm Bounce and may have lead to his rotator cuff problems.


22 Yr WL\% . 66534117267267111846004704.339971799163234715204502150133193693 .124 .46143



As you can see in frame 5.1, Clemens does very little in the way of reverse-rotation. He does reverse-rotate his hips, which will help help generate power, but he doesn't really reverse-rotate his shoulders. Also, similar to Bob Gibson, Clemens by the time Clemens breaks his hands, his shoulders are again parallel to the driveline. This may help to explain his longevity.




Notice the difference in body lean between frames 12.1 and 12.2. In frame 12.1, which was taken while he was pitching for Houston, Clemens is pretty much erect. In contrast in frame 12.2, which was taken while he was pitching for Boston, Clemens is leaning toward the plate.
13.


17.


Notice very different mechanics in frame 17.4, which was taken while he was pitching in Boston. Leaning back with glove-side knee and foot much higher.





Sitting back when compare 25.3 and 26.3.












## GLOVE-SIDE FOOT PLANTED: The



Notice different timing when in Boston. In these pictures, Clemens' forearm is at the same angle as in the pictures that were taken while he was pitching in Houston, but his glove-side foot is still well off ground in Boston. Showing ball to CF in Boston.




Clemens arches his backs to allow his hips to keep turning. His shoulders haven't started to turn yet.



65. 1


SHOULDERSSTARTING TO TURN: Wrist starting to bounce backwards toward 1B as shoulders start to turn. As you would expect, Clemens does a great job of staying back; of not starting to turn his shoulders until his glove-side foot is planted.
66.



Forearm starting to bounce backwards toward 1 B as shoulders continue to turn. Standing taller in 67.1 than in 66.1 .


In frame 68.1, Clemens is continuing to arch his back to allow his hips to keep turning.





Notice difference in shoulder tilt from Yankees to Astros.
















Mediocre fielding position. Eyes locked on the target but glove back by hip.













































































