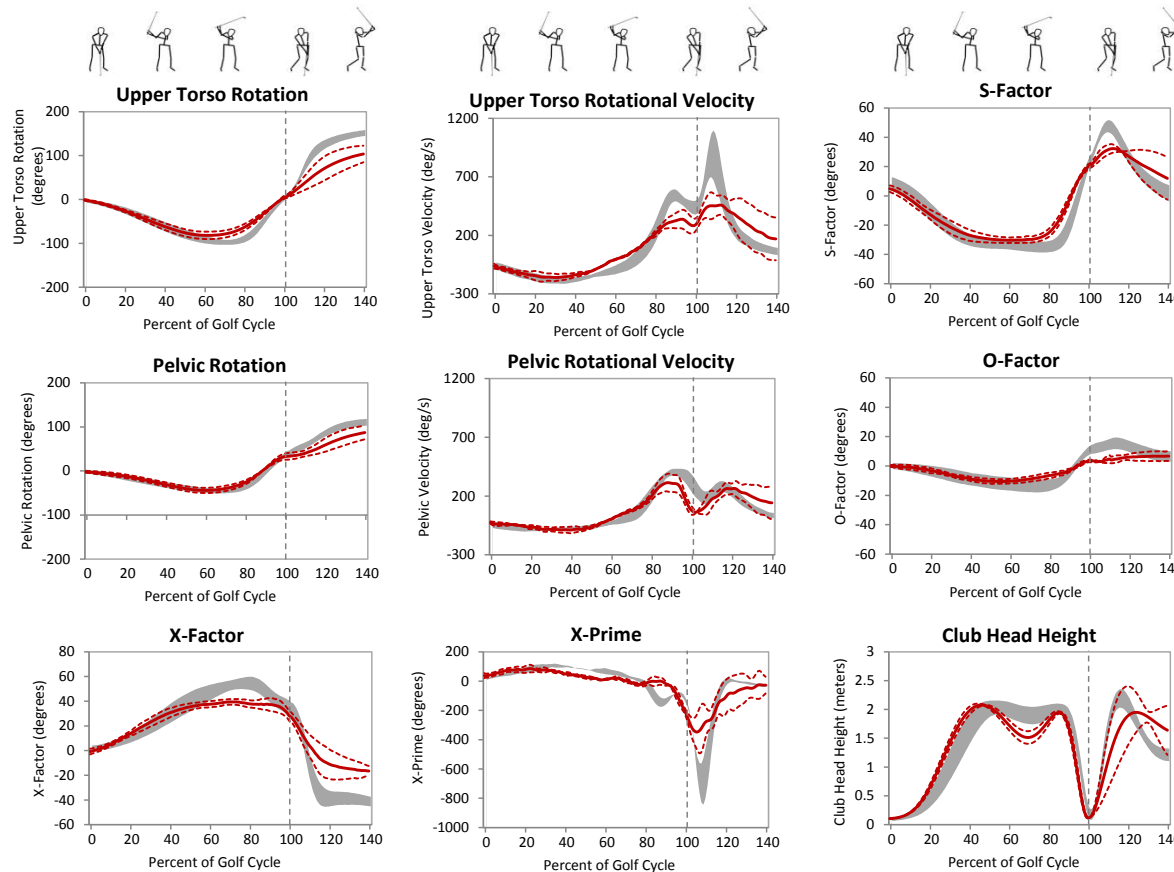


Golf Swing Rotational Biomechanics

Name: Amateur
Date: 6/22/2017



Golf Swing Parameters:	Ave ± SD	% of Pro
At Impact:		
Clubhead Velocity (m/s)	25.2 ± 3.8	71%
Upper-Torso Rotation	4.6 ± 3.4	76%
Pelvic Rotation	32.7 ± 7.3	84%
Upper-Torso Velocity	288.5 ± 55.3	63%
Pelvic Velocity	78.3 ± 36.5	27%
S-Factor	20.0 ± 1.6	80%
O-Factor	3.5 ± 0.9	29%
X-Factor	28.1 ± 4.0	85%
X-Prime	-210.1 ± 20.6	134%
Peak Value:		
Clubhead Velocity (m/s)	81.8 ± 8.5	83%
Upper-Torso Rotation	81.8 ± 8.5	83%
Pelvic Rotation	44.1 ± 5.9	96%
Upper-Torso Velocity	516.4 ± 69.5	56%
Pelvic Velocity	330.0 ± 66.3	80%
S-Factor	40.1 ± 2.9	83%
O-Factor	7.0 ± 3.0	44%
X-Factor	40.1 ± 2.9	72%
X-Prime	88.9 ± 23.2	83%

Legend:



Pro Average (± SD)
Your Average (± SD)

Handicap: 27

Interpretation:

Torso Rotation: At the top of backswing is high; in follow-through is low

Pelvic Rotation: In follow-through is low

X-Factor: At the top of backswing is low; in follow through is high

Torso Velocity: At impact is low; in early follow-through is low; in late follow-through is high

Pelvic Velocity: At impact is low; in late follow-through is high

X-Prime (Difference between torso vs hip velocity): At downswing is high, at impact is high; mid follow-through is low and variable

S-Factor (Leading hip): In downswing is high; in early follow-through is low; in late follow-through is high

O-Factor (Leading hip): At impact is low; in early follow-through is low

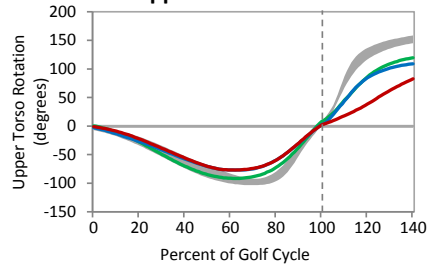
Clubhead Height: At top of backswing is low; in early follow-through is low and variable; in late follow-through is high and variable

Golf Swing Rotational Biomechanics

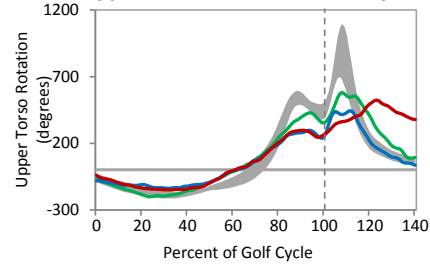
Name: Amateur
 Date: 6/22/2017
 Handicap: 27



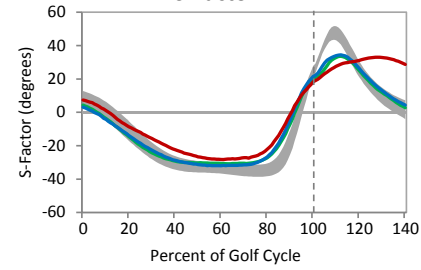
Upper Torso Rotation



Upper Torso Rotational Velocity



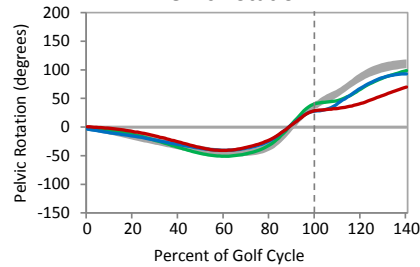
S-Factor



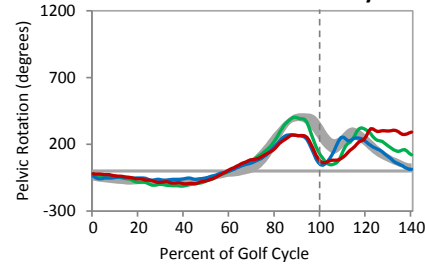
Legend:

- Pro Average (\pm SD)
- Your Trials:**
- Trial 1
- Trial 2
- Trial 3
- Trials 6-10

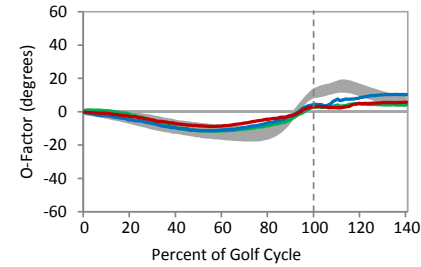
Pelvic Rotation



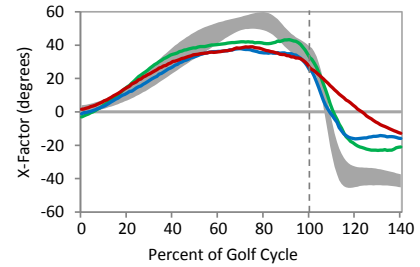
Pelvic Rotational Velocity



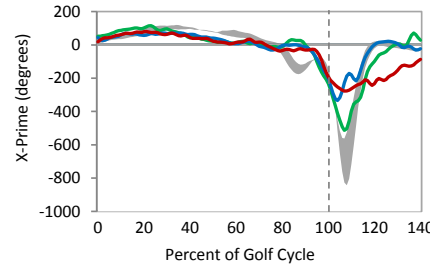
O-Factor



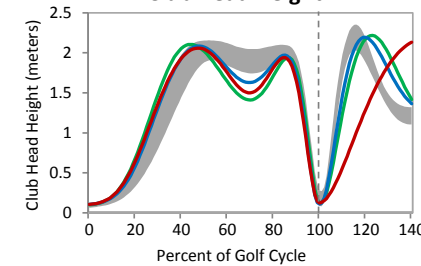
X-Factor



X-Prime



Club Head Height



Biomechanical Parameter	Units	Pros	Amateur	% of Pro
At Impact:				
Clubhead Speed	m/s	35.4 ± 2.1	25.2 ± 3.8	71%
Upper-Torso Rotation	degrees	6 ± 5	5 ± 3	76%
Pelvic Rotation	degrees	39 ± 6	33 ± 7	84%
Upper-Torso Velocity	deg/s	458 ± 73	288 ± 55	63%
Pelvic Velocity	deg/s	289 ± 72	78 ± 37	27%
S-Factor	degrees	25 ± 3	20 ± 2	80%
O-Factor	degrees	12 ± 3	3 ± 1	29%
X-Factor	degrees	33 ± 6	28 ± 4	85%
X-Prime	degrees	-157 ± 15	-210 ± 21	134%
Peak Value:				
Clubhead Speed	m/s	35.4 ± 2.1	25.2 ± 3.8	71%
Upper-Torso Rotation	degrees	99 ± 6	82 ± 8	83%
Pelvic Rotation	degrees	46 ± 6	44 ± 6	96%
Upper-Torso Velocity	deg/s	929 ± 187	516 ± 69	56%
Pelvic Velocity	deg/s	415 ± 33	330 ± 66	80%
S-Factor	degrees	48 ± 4	40 ± 3	83%
O-Factor	degrees	16 ± 4	7 ± 3	44%
X-Factor	degrees	56 ± 4	40 ± 3	72%
X-Prime	degrees	107 ± 16	88.9 ± 23.2	83%