



Features of indicators of high-qualified tennis service acceptance at us open 2020, atp final tournament 2020 and australian open 2021

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Abstract

Objective of the study was to identifying the number of indicators and the versatility of serving reception among the top eight tennis players in the world in 2020 according to the results of the rating of the Association of Tennis Professionals (ATP).

Methods and structure of the study. In the course of the work, a video analysis of the Grand Slam tournaments of 2021, the Australian Open in 2021, the final championship of the ATP tour in 2020, the US Open in 2020 was used. The percentage of hitting the first serve from the first match to the last among eight leading players in the ATP ranking, in tournaments during 2020-2021.

Results and conclusions. In tennis, the execution of the reception of the serve depends not only on the receiver, but also on the direction of the server's serve. Depending on the server, where he sends his serve, the receiver finds himself in different conditions, however, how the receiver sends the ball from the reception and at what speed, his position, as well as the position of the server in this draw, will depend. The surface of the tennis court also plays a huge role.

The article presents the directions of feed options (feed zones: A, B, C, D, E) and varieties of classifications for receiving feed in the direction from the first square.

Keywords: *feature, indicator, serve reception, highly qualified tennis players and tournament.*

Introduction. The competitive activity of highly qualified tennis players is one of the most important problems in the field of theory and practice of tennis. Specialists and practitioners are always in search of new data and research results, tools and methods for planning the technical and tactical training of tennis players, this is the relevance of our work.

Objective of the study was to identifying the number of indicators and the versatility of serving reception among the top eight tennis players in the world in 2020 according to the results of the rating of the Association of Tennis Professionals (ATP).

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Results of the study and their discussion. Table 1 shows the percentage of the number of points won at the reception of the serve from the total number of receptions of the serve. A. Karatsev had the highest percentage of winning hits in the AO tournament in the second round (64%), S. Tsitsipas (26%) in the 1/4 round had the smallest percentage of points won, who dropped out of the game after the semi-finals.

From Table 1 shows that A. Rublev (37.6%) has the minimum average value of the percentage of points won at the reception of the serve throughout the tournament, and R. Nadal (46.00%) has the best indicators. The finalists of this championship were N. Djokovic and D. Medvedev, whose final scores are 47.50 and 43.28%. In the US Open, the average value of the percentage of points won at the reception of the serve ranges from 40.20 to 43.57%, and in the Australian Open tournament - from 37.60 to 40.00%.



Table 1. Percentage of points won at receptions (of total receptions) (%), at Australian Open and US Open tournaments 2021

Player	Percentage of points won at admission, %														Average values, %	
	AO	USO	AO	USO	AO	USO	AO	USO	AO	USO	AO	USO	AO	USO	AO	USO
	1st round		2nd round		3rd round		4th round		1/4		1/2		Finale			
N. Djokovic	50	53	38	42	33	46	35	33	35	-	50	-	44	-	47,5	43,50
D. Medvedev	44	46	56	44	42	52	43	57	41	29	45	31	32	-	43,28	43,16
S. Tsitsipas	56	53	38	37	53	35	49	-	28	-	26	-	-	-	41,66	41,66
A. Karatsev	44	48	64	36	45	-	36	-	46	-	32	-	-	-	44,50	42,00
A. Rublev	44	42	32	41	37	60	44	37	31	21	-	-	-	-	37,60	40,20
D. Tim	51	42	50	48	30	38	33	48	-	50	-	39	40	-	41,50	43,57
R. Nadal	48	-	47	-	44	-	46	-	45	-	-	-	-	-	46,00	-
A. Zverev	38	32	38	37	45	42	41	57	35	34	-	42	39	-	39,40	40,42

Note:AO – Australian Open; USO – US Open.

From Table 2 shows that that the finalists of the final tournament in the final have almost the same percentage of the number of points won at the reception of the serve, however, the final performance indicator shows the advantage of the winner of the Final tournament D. Medvedev, his indicator is 40.7%, while D. Tim the indicator is 10.5% less and equals 30.2%. The lowest final indicator of the stability of the reception of the serve is observed in S. Tsitsipas, who dropped out after the 2nd round, and is equal to 30%.

From Table 3, we see that the serve consistency rates of the top eight tennis players in the world range from 24% to 47% at the 2021 Australian Open; 23% to 62% at the 2020 US Open; between 47% and 74% at the 2020 ATP Finals. The world's top serve hitters range from 7% to 12% at the 2021 Australian Open; from 7 to 24% at the US Open 2020 tournament; 9% to 21% at the 2020 ATP Finals. Serve hit rates for the world's top tennis players range from 32% to 56% at the 2021 Australian Open; 34% to 86% at US Open 2020; 59% to 89% at the 2020 ATP Finals

In Table 4 shows the average values of the reception rates at the Australian Open 2021 tournament

for the eight leading tennis players in the world, where Karatsev showed the best results - 44.5%, and Rublev - the worst - 37.6%. We see above-average values in winning reception in the 1st square for Medvedev - 56% (62% for the left-hander Nadal in the 2nd square, which is a mirror image of the first for right-handers), and the worst indicator for Rublev - 34%. Above-average values in the winning reception in the 2nd square for Rublev - 66%, for Zverev - 34%, while for Tsitsipas - only 13% of points. Djokovic's second serve wins are above average with 54%, while Nadal's is only 21%.

The table shows the directions of the serving options (serving zones) and the varieties of classifications for receiving the serve in the direction from the first square by the eight leading tennis players in the world, which most often tennis players accept cross-country serves, which is 60% (from zone A - 15.20%; from zone B - 17.29%; from zone C - 19.37%; from zone D - 18.12%; from zone E - 30.0%). The reception on the line is 27.62% (from zone A - 21.71%; from zone B - 23.98%; from zone C - 28.95%; from zone D - 13.57%, and E - 11.76 %); and the least accepted

Table 2. Percentage of points won at the reception (of the total number of receptions) (%), at the tournament of the final championship of the ATP Tour

Group	Player	Percentage of points won at admission, %				The average value of the effectiveness of the reception of the serve, %
		1st round	2nd round	1/2	Finale	
Tokyo	N. Djokovic	48	27	28	-	34,3
	D. Medvedev	44	43	42	34	40,7
	A. Zverev	32	44	-	-	38
	D. Schwartzman	28	34	-	-	31
London	D. Tim	35	25	29	32	30,2
	R. Nadal	33	39	32	-	34,7
	S. Tsitsipas	34	26	-	-	30,0
	A. Rublev	26	43	-	-	34,5



Table 3. Consistency, scoring and pitching efficiency metrics for the 2020 US Open, 2020 ATP Finals and 2021 Australian Open

Player	Australian Open			US Open 2020			ATP Final Tournament 2020		
	2021			CS%	CR%	CE%	CS%	CR%	CE%
N. Djokovic	47	9	56	43	18	61	59	13	72
D. Medvedev	37	8	45	41	15	56	74	15	89
S. Tsitsipas	26	10	36	32	13	45	47	12	59
A. Karatsev	24	12	32	27	7	34	55	9	64
A. Rublev	26	9	35	23	11	34	68	21	89
D. Tim	31	7	38	62	24	86	54	13	67
R. Nadal	33	11	46	-	-	-	58	11	69
A. Zverev	29	10	39	29	9	38	49	11	60

Note: CS - feed reception stability coefficient; CR - the coefficient of effectiveness of receiving the feed; CE - coefficient of efficiency of feed reception.

Table 4. Average values of the number of points won at the reception of the serve at the Australian Open 2021 tournament, from the top eight tennis players in the world, %

Значения	N. Djokovic	D. Medvedev	S. Tsitsipas	A. Karatsev	A. Rublev	D. Tim	R. Nadal	A. Zverev
Serves won, %	40,7	43,3	40,2	44,5	37,6	41	42	39,4
Points won at the reception in 1 square,%	53	56	43	46	34	41	38*	46
Points won at the reception in 2 square,%	47	44	57	54	66	59	62*	54
Points won from the first serve, %	31	27	13	29	20	29	23	34
Points won from the second serve, %	54	35	46	31	36	38	21	41

* the player is left-handed; for a correct comparison with other participants in the study, it is advisable to take square 1 for square 2 in calculations and vice versa.

in the center - 12.37% (from zone A - 20.20%; from zone B - 15.15%; from zone C - 17.17%; from zone D - 25.25%; from zone E - 22.22%) of the total number of serves in the first square.

And when we consider the technical and tactical actions of each tennis player, we see that N. Djokovic most of all takes crosses from zone E, B, along the line from zone A, B, and the least takes in the center from zone C. D. Medvedev, most of all received by crosses from zone D, E, along the line from zone C, and the least received by the center from zone B. Rublev A. most of all received by crosses from zone E, along the line from zone B, and least of all received by the center from zone B. Karatsev A. most of all received cross from zone E, C, along the line from zone B, A, and least of all received in the center from zone C, D.

The tables show the directions of the service options (service zones) and the varieties of classifications of the reception of the service in the direction from the second square of the eight leading tennis

players in the world. It can be seen that most often tennis players receive cross serves, which is 55.75%, line reception is 26.00%; and the least often accepted in the center - 18.25% of the total number of serving receptions in the first square of the top eight tennis players in the world, most often tennis players receive cross-country serves.

Conclusions. The study and analysis of literary sources in the field of theory and methodology of tennis show that the percentage of serving is $17.8 \pm 2.2\%$ of the total number of hits in the match. The average value of the percentage of points won at the reception of the serve in the US Open tournament ranges from 40.20 to 43.57%; at the Australian Open tournament - from 37.60 to 40.00%, and at the ATP Finals 2020 tournament they range from 30.00 to 40.70%. Averages of percentages of serve consistency for eight of the world's top tennis players at the 2021 Australian Open tournaments; US Open 2020 and ATP Finals 2020 range from 29.33% to 61.00%, average perfor-



Table 5. General indicators of the number of receptions in the 1st and 2nd squares of the world's leading tennis players (%)

Submission hit zone	Line reception															
	N. Djokovic		D. Medvedev		S. Tsitsipas		A. Karatsev		A. Rublev		D. Tim		R. Nadal		A. Zverev	
	1k	2k	1k	2k	1k	2k	1k	2k	1k	2k	1k	2k	1k	2k	1k	2k
A	11	7	5	8	6	10	7	6	5	8	4	7	4	5	6	9
B	10	9	3	12	5	6	8	10	8	6	6	9	6	4	7	8
C	9	3	8	5	3	2	6	5	7	1	12	4	10	2	9	6
D	3	4	2	3	1	5	5	3	3	6	4	2	8	4	4	2
E	1	6	2	2	2	1	3	3	4	2	5	2	7	7	2	4
	Cross-country reception															
	1k	2k	1k	2k	1k	2k	1k	2k	1k	2k	1k	2k	1k	2k	1k	2k
A	10	9	13	10	9	7	11	10	9	5	7	9	8	11	6	7
B	12	7	9	4	12	6	8	9	11	9	8	9	11	7	12	6
C	8	14	11	6	13	9	14	7	10	10	21	5	9	6	14	5
D	9	10	17	11	14	13	9	9	7	14	18	16	6	10	9	12
E	14	21	16	24	23	19	17	23	18	17	12	18	21	22	23	20
	Reception in the center															
A	3	3	2	6	1	8	5	4	4	2	1	6	2	4	2	8
B	2	2	1	1	2	2	2	1	2	3	3	3	2	6	1	2
C	1	1	3	3	5	4	1	3	3	7	2	5	1	2	1	3
D	3	3	5	2	3	3	1	2	4	4	6	2	2	7	1	4
E	4	1	3	3	1	5	3	5	4	6	1	3	3	3	3	4

mance figures range from 7.66% to 19.00%; the average values of the reception efficiency indicators range from 41.66 to 77.00%.

Indicators of the variety of classifications of serve receptions in the direction from the first square of the top eight tennis players in the world in tournaments indicate that most often tennis players receive cross-country serves - 60%, reception along the line is 27.62%, and least of all they receive in the center.

The indicators of the variety of classifications of serve receptions in the direction from the second square of the eight leading tennis players in the world at tournaments show that most often tennis players receive cross-country serves, which is 55.75%, reception along the line is 26.00%, and least often they receive in the center - 18.25% of the total number of servings.

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