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MotoGP™

HJC HELMETS MOTORRAD GRAND PRIX DEUTSCHLAND

Warm Up

Chronological Analysis of Performances

27

* Lap / Sector time cancelled

T1 Time from finish line to 1st intermed.

T3 Time from 2nd intermed. to 3rd intermed.

P Crossing the finish line in pit lane

T2 Time from 1st intermed. to 2nd intermed.

T4 Time from 3rd intermediate to finish line

** Tyre data subject to further updates

Lap	Lap Time	T1	T2	T3	T4	Speed	Lap	Lap Time	T1	T2	T3	T4	Speed							
1st	93	Marc MARQUEZ				HONDA	SPA	Run #	2	Front Tyre	Slick-Soft		Rear Tyre	Slick-Soft						
		Repsol Honda Team				New Tyre					4 Laps at start									
		Runs=2		Total laps=7		Full laps=4														
		Wet-Medium		Wet-Medium																
		New Tyre		New Tyre																
		1	2'04.177	23.231	30.469	24.139	26.562				7	5'39.948		20.731	26.027	21.522	23.422			
		2	1'42.494	P	22.300	27.558	22.780				29.856	237.8		8	1'27.440	19.588	24.956	20.481	22.415	258.7
		9	1'34.014	18.934	26.399	20.830	27.851				286.3									
		10	1'24.627	18.993	24.066	19.855	21.713				278.9									
		11	1'23.428	18.423	23.779	19.575	21.651				291.7									
Run #	2	Front Tyre	Slick-Medium		Rear Tyre	Slick-Medium														
			New Tyre			New Tyre														
			5 Laps at start			New Tyre														
			3	11'37.058		20.352	26.311	22.006	23.197											
			4	1'26.775		19.146	24.492	20.500	22.637	288.4										
			5	1'35.130		18.574	27.302	21.149	28.105	291.9										
			6	1'23.116		18.359	23.875	19.474	21.408	293.1										
			7	1'23.491		18.435	23.762	19.814	21.480	292.3										
			2nd	43		Jack MILLER				DUCATI	AUS	Run #	1	Front Tyre	Wet-Medium		Rear Tyre	Wet-Medium		
						Pramac Racing				New Tyre					New Tyre					
Runs=2		Total laps=10			Full laps=7															
Wet-Medium		Wet-Medium																		
New Tyre		New Tyre																		
1	2'49.438	20.935			27.353	22.286	24.102	3	4'55.835	21.762	28.399				22.368	24.484				
2	1'30.665	20.212			25.958	21.290	23.205	276.6	4	1'31.147	20.427				26.331	21.100		23.289	278.6	
3	1'37.741	P			20.785	26.727	22.190	28.039	272.3	5	1'27.205				19.440	24.964		20.432	22.369	286.3
Run #	2	Front Tyre			Slick-Medium		Rear Tyre	Slick-Soft		6	1'25.839				18.930	24.652		20.215	22.042	287.5
10 Laps at start		3 Laps at start			7	1'25.207	18.882	24.367	20.071	21.887	289.8									
4	6'41.366	22.920	27.336	21.980	23.359	8	1'25.543	18.734	24.197	20.119	22.493	290.0								
5	1'28.839	19.576	25.242	21.221	22.800	278.7	9	1'24.871	18.864	24.328	19.861	21.818	290.9							
6	1'27.517	19.240	24.710	21.093	22.474	279.6	10	1'24.606	18.701	24.372	19.843	21.690	286.1							
7	1'26.221	18.976	24.603	20.496	22.146	289.1	11	1'23.452	18.493	24.019	19.507	21.433	291.9							
8	1'25.423	18.902	24.312	20.223	21.986	290.4	5th	6	Stefan BRADL				HONDA	GER						
9	1'24.014	18.547	24.018	19.790	21.659	291.3			Repsol Honda Team				Runs=2		Total laps=7	Full laps=4				
10	1'23.306	18.451	23.736	19.624	21.495	292.0			Run #	1	Front Tyre	Wet-Medium		Rear Tyre	Wet-Medium					
3rd	4	Andrea DOVIZIOSO				DUCATI			ITA	New Tyre		New Tyre								
		Runs=2		Total laps=11		Full laps=8			1	2'06.225	22.337	28.043	23.243	25.292						
		Wet-Medium		Wet-Medium		2			1'41.316	P	21.764	27.418	22.327	29.807	242.5					
		New Tyre		New Tyre		Run #			2	Front Tyre	Slick-Soft		Rear Tyre	Slick-Soft						
		New Tyre		New Tyre		New Tyre			3 Laps at start											
		1	2'12.615	21.145	27.696	22.516			24.060	3	11'36.363	22.061	26.849	21.936	23.543					
		2	1'31.476	20.300	26.148	21.702			23.326	270.6	4	1'27.795	19.612	25.000	20.451	22.732	263.4			
		3	1'29.577	19.912	25.688	20.997	22.980	264.1	5	1'25.543	19.168	24.537	20.021	21.817	272.5					
		4	1'28.676	19.590	25.385	20.828	22.873	271.7	6	1'24.349	18.708	24.181	19.707	21.753	289.4					
		5	1'28.086	19.473	25.266	20.386	22.961	274.8	7	1'23.842	18.573	23.967	19.858	21.444	288.7					
6	1'33.669	P	20.612	25.543	20.936	26.578	268.3													

Fastest Lap: Marc MARQUEZ Repsol Honda Team SPA **1'23.116** 18.359 23.875 19.474 21.408

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Sachsenring, Sunday, July 07, 2019

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Warm Up

MotoGP

Lap	Lap Time	T1	T2	T3	T4	Speed
6th	9	Danilo PETRUCCI DUCATI ITA Ducati Team				
		Runs=2	Total laps=7	Full laps=4		
Run #	1	Front Tyre	Wet-Soft New Tyre	Rear Tyre	Wet-Soft New Tyre	
1	2'05.865	21.911	27.146	22.488	24.227	
2	1'37.460	P 21.002	27.210	21.770	27.478	264.6
Run #	2	Front Tyre	Slick-Soft New Tyre	Rear Tyre	Slick-Soft 4 Laps at start	
3	11'12.176	21.075	25.861	20.681	22.368	
4	1'26.513	19.399	24.933	20.165	22.016	287.2
5	1'36.235	25.436	27.944	20.522	22.333	285.5
6	1'24.718	18.877	24.336	19.875	21.630	289.0
7	1'23.937	18.621	24.141	19.680	21.495	290.4

7th	20	Fabio QUARTARARO YAMAHA FRA Petronas Yamaha SRT				
		Runs=2	Total laps=12	Full laps=9		
Run #	1	Front Tyre	Wet-Medium New Tyre	Rear Tyre	Wet-Medium New Tyre	
1	2'22.450	22.235	27.774	22.278	24.903	
2	1'32.510	20.572	26.542	21.746	23.650	262.0
3	1'30.578	20.010	26.111	21.298	23.159	276.3
4	1'29.654	19.647	25.689	21.103	23.215	277.6
5	1'29.136	19.723	25.615	20.884	22.914	276.6
6	1'36.176	P 20.684	26.987	21.494	27.011	277.3
Run #	2	Front Tyre	Slick-Soft New Tyre	Rear Tyre	Slick-Medium New Tyre	
7	4'01.108	21.651	26.570	21.524	23.367	
8	1'28.723	19.737	25.480	20.899	22.607	278.6
9	1'27.009	19.308	24.863	20.508	22.330	281.9
10	1'25.895	18.969	24.634	20.107	22.185	284.1
11	1'24.879	18.648	24.378	20.034	21.819	285.0
12	1'24.006	18.548	24.194	19.758	21.506	286.4

8th	88	Miguel OLIVEIRA KTM POR Red Bull KTM Tech 3				
		Runs=2	Total laps=9	Full laps=6		
Run #	1	Front Tyre	Wet-Medium New Tyre	Rear Tyre	Wet-Medium New Tyre	
1	1'54.134	22.589	27.656	22.598	24.409	
2	1'31.056	20.820	25.795	21.112	23.329	247.8
3	1'29.451	20.069	25.512	20.823	23.047	263.6
4	1'38.262	P 21.202	27.698	21.983	27.379	263.8
Run #	2	Front Tyre	Slick-Soft New Tyre	Rear Tyre	Slick-Soft 4 Laps at start	
5	8'45.905	22.335	25.836	21.368	23.069	
6	1'27.075	19.293	24.795	20.519	22.468	278.7
7	1'25.260	19.105	24.275	20.065	21.815	280.9
8	1'24.962	18.824	24.188	19.835	22.115	284.4
9	1'24.239	18.848	24.134	19.742	21.515	283.5

9th	44	Poi ESPARGARO KTM SPA Red Bull KTM Factory Racing				
		Runs=2	Total laps=6	Full laps=4		

Lap	Lap Time	T1	T2	T3	T4	Speed
Run #	1	Front Tyre	missing data	Rear Tyre	missing data	
		**	Laps at start	**	Laps at start	
1	1'53.886	P 21.803	27.961	22.549	28.686	
Run #	2	Front Tyre	Slick-Medium 4 Laps at start	Rear Tyre	Slick-Hard New Tyre	
2	12'31.978	20.685	26.757	21.429	23.119	
3	1'26.937	19.320	24.833	20.404	22.380	287.6
4	1'24.885	18.924	24.335	19.895	21.731	290.4
5	1'27.338	20.652	24.596	20.033	22.057	292.8
6	1'24.315	18.744	24.467	19.584	21.520	288.5

10th	12	Maverick VIÑALES YAMAHA SPA Monster Energy Yamaha MotoGP				
		Runs=2	Total laps=13	Full laps=10		
Run #	1	Front Tyre	Wet-Medium New Tyre	Rear Tyre	Wet-Medium New Tyre	
1	2'05.671	20.856	26.084	21.816	24.209	
2	1'34.326	22.034	26.492	21.744	24.056	250.5
3	1'29.669	19.860	25.516	20.915	23.378	273.9
4	1'31.045	19.922	26.145	21.475	23.503	273.2
5	1'28.331	19.560	25.246	20.536	22.989	278.2
6	1'28.150	19.453	25.299	20.524	22.874	280.4
7	1'28.050	19.445	25.303	20.505	22.797	281.9
8	1'33.833	P 20.013	26.215	21.181	26.424	280.9
Run #	2	Front Tyre	Slick-Medium 13 Laps at start	Rear Tyre	Slick-Medium 5 Laps at start	
9	1'59.560	21.166	26.718	21.293	23.203	
10	1'27.853	19.275	25.453	20.678	22.447	284.5
11	1'25.820	18.915	24.633	20.138	22.134	285.9
12	1'24.476	18.563	24.254	19.782	21.877	289.0
13	1'24.554	18.618	24.418	19.768	21.750	288.1

11th	35	Cal CRUTCHLOW HONDA GBR LCR Honda CASTROL				
		Runs=2	Total laps=7	Full laps=4		
Run #	1	Front Tyre	Wet-Medium New Tyre	Rear Tyre	Wet-Medium New Tyre	
1	2'04.056	22.187	29.692	24.154	26.331	
2	1'41.602	P 23.573	28.260	21.944	27.825	236.5
Run #	2	Front Tyre	Slick-Medium 17 Laps at start	Rear Tyre	Slick-Soft 4 Laps at start	
3	11'04.620	21.834	27.383	22.014	23.474	
4	1'34.158	22.923	27.805	20.907	22.523	269.9
5	1'26.796	19.666	25.047	20.159	21.924	282.7
6	1'25.193	18.950	24.240	19.997	22.006	289.1
7	1'24.587	18.846	24.137	19.796	21.808	288.7

12th	36	Joan MIR SUZUKI SPA Team SUZUKI ECSTAR				
		Runs=3	Total laps=10	Full laps=7		
Run #	1	Front Tyre	Wet-Soft New Tyre	Rear Tyre	Wet-Soft New Tyre	
1	2'10.508	21.397	27.682	21.985	24.168	
2	1'38.020	P 20.434	25.989	23.752	27.845	256.4

Fastest Lap: Marc MARQUEZ

Repsol Honda Team SPA **1'23.116** 18.359 23.875 19.474 21.408

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Sachsenring, Sunday, July 07, 2019

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Warm Up

MotoGP

Lap	Lap Time	T1	T2	T3	T4	Speed	Lap	Lap Time	T1	T2	T3	T4	Speed
Run #	2	Front Tyre	Wet-Soft	Rear Tyre	Wet-Medium		Run #	2	Front Tyre	Slick-Medium	Rear Tyre	Slick-Soft	
		New Tyre			New Tyre				8 Laps at start			5 Laps at start	
3	2'04.639	24.351	29.333	21.477	23.167		4	2'09.364	21.286	29.442	23.762	24.878	
4	1'29.866	20.183	25.572	21.058	23.053	266.1	5	1'35.878	21.201	27.608	22.620	24.449	250.1
	unfinished	20.028	31.959			275.0	6	1'33.819	20.465	26.944	22.139	24.271	265.7
Run #	3	Front Tyre	Slick-Soft	Rear Tyre	Slick-Hard		7	1'31.532	20.186	26.462	21.436	23.448	266.6
		5 Laps at start			5 Laps at start		8	1'30.118	19.793	25.861	21.190	23.274	270.2
5	1'34.176	21.883	27.824	21.524	22.945		9	1'29.589	19.613	25.574	21.111	23.291	268.7
6	1'28.113	19.502	24.905	20.975	22.731	281.8	10	1'29.088	19.753	25.319	20.861	23.155	273.7
7	1'27.076	19.264	24.621	20.428	22.763	285.6	11	1'37.167	27.838	26.253	20.445	22.631	278.7
8	1'25.288	19.001	24.340	20.031	21.916	285.9	12	1'26.211	19.081	24.861	20.252	22.017	279.2
9	1'24.873	18.990	24.209	19.838	21.836	285.7	13	1'25.556	18.753	24.575	19.940	22.288	286.8

13th 46 Valentino ROSSI YAMAHA ITA
Monster Energy Yamaha MotoGP

Runs=2 Total laps=11 Full laps=8

Run #	1	Front Tyre	Wet-Medium	Rear Tyre	Wet-Medium	
		New Tyre			New Tyre	
1	2'41.438	22.489	29.453	23.691	25.273	
2	1'35.174	21.042	27.431	22.359	24.342	264.1
3	1'32.728	20.690	26.447	21.858	23.733	272.8
4	1'30.676	20.122	25.934	21.298	23.322	274.0
5	1'30.041	19.985	25.590	21.461	23.005	278.9
6	1'35.491 P	19.949	25.447	21.788	28.307	274.4
Run #	2	Front Tyre	Slick-Soft	Rear Tyre	Slick-Soft	
		New Tyre			4 Laps at start	
7	3'46.120	20.361	28.441	24.750	24.385	
8	1'30.227	20.074	25.567	21.484	23.102	271.6
9	1'27.467	19.574	24.839	20.645	22.409	278.9
10	1'27.051	19.824	24.627	20.315	22.285	267.8
11	1'25.306	19.032	24.207	20.011	22.056	284.8

14th 55 Hafizh SYAHRIN KTM MAL
Red Bull KTM Tech 3

Runs=2 Total laps=8 Full laps=5

Run #	1	Front Tyre	Wet-Medium	Rear Tyre	Wet-Medium	
		New Tyre			New Tyre	
1	3'14.164	28.309	30.305	23.436	25.118	
2	1'32.960	21.163	26.684	21.624	23.489	255.9
3	1'31.016	20.171	26.143	21.158	23.544	264.4
4	1'51.021 P	24.521	31.845	24.322	30.333	265.6
Run #	2	Front Tyre	Slick-Soft	Rear Tyre	Slick-Soft	
		New Tyre			4 Laps at start	
5	7'35.381	25.637	31.668	22.318	23.720	
6	1'28.480	19.996	25.340	20.523	22.621	271.8
7	1'26.455	19.329	24.824	20.087	22.215	283.9
8	1'25.528	19.194	24.679	19.695	21.960	282.6

15th 53 Tito RABAT DUCATI SPA
Reale Avintia Racing

Runs=2 Total laps=13 Full laps=10

Run #	1	Front Tyre	Wet-Medium	Rear Tyre	Wet-Medium	
		New Tyre			New Tyre	
1	1'47.712	22.073	29.100	22.877	24.602	
2	1'34.031	20.780	26.831	21.997	24.423	257.2
3	1'40.596 P	20.981	29.081	21.978	28.556	249.1

16th 30 Takaaki NAKAGAMI HONDA JPN
LCR Honda IDEMITSU

Runs=2 Total laps=6 Full laps=3

Run #	1	Front Tyre	Wet-Medium	Rear Tyre	Wet-Medium	
		New Tyre			New Tyre	
1	5'58.389	29.495	29.082	23.208	24.761	
2	1'31.814	21.669	26.088	20.940	23.117	243.7
3	1'36.761 P	20.970	25.903	21.816	28.072	257.7
Run #	2	Front Tyre	Slick-Soft	Rear Tyre	Slick-Medium	
		New Tyre			New Tyre	
4	8'02.102	25.455	31.209	22.703	23.785	
5	1'29.687	20.774	25.689	20.574	22.650	271.6
6	1'25.957	19.659	24.729	19.695	21.874	278.1

17th 17 Karel ABRAHAM DUCATI CZE
Reale Avintia Racing

Runs=3 Total laps=11 Full laps=6

Run #	1	Front Tyre	Wet-Medium	Rear Tyre	Wet-Medium	
		New Tyre			New Tyre	
1	1'52.095 P	22.385	28.669	23.141	28.582	
Run #	2	Front Tyre	Wet-Medium	Rear Tyre	Wet-Medium	
		New Tyre			New Tyre	
2	3'16.529	23.595	28.325	22.470	24.754	
3	1'32.310	20.844	26.184	21.498	23.784	271.3
4	1'29.210 *	19.784	25.358	20.565	23.503*	270.0
5	1'29.230	19.775	25.576	20.707	23.172	274.1
6	1'36.641 P	21.142	27.396	20.934	27.169	272.7
Run #	3	Front Tyre	Slick-Soft	Rear Tyre	Slick-Soft	
		5 Laps at start			5 Laps at start	
7	3'30.005	21.665	26.674	20.960	23.172	
8	1'28.398	19.547	25.194	20.332	23.325	281.3
9	1'26.724	19.232	24.638	20.080	22.774	280.6
10	1'27.879	19.482	25.237	20.475	22.685	284.4
11	1'26.057	19.145	24.580	19.955	22.377	285.1

18th 21 Franco MORBIDELLI YAMAHA ITA
Petronas Yamaha SRT

Runs=2 Total laps=13 Full laps=10

Run #	1	Front Tyre	Wet-Medium	Rear Tyre	Wet-Medium	
		New Tyre			New Tyre	
1	2'05.578	22.901	28.679	23.524	24.983	
2	1'35.405	21.639	27.374	22.276	24.116	252.7
3	1'31.563	20.297	25.655	22.117	23.494	259.8

Fastest Lap: Marc MARQUEZ Repsol Honda Team SPA **1'23.116** 18.359 23.875 19.474 21.408

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Warm Up

MotoGP

Lap	Lap Time	T1	T2	T3	T4	Speed	Lap	Lap Time	T1	T2	T3	T4	Speed
4	1'29.687	20.086	25.516	20.995	23.090	271.0	Run # 2	Front Tyre	Slick-Soft	Rear Tyre	Slick-Soft		
5	1'28.829	19.972	25.345	20.612	22.900	264.9			New Tyre			4 Laps at start	
6	1'28.706	19.632	25.312	20.808	22.954	275.8	3	17'20.852	22.292	28.249	21.267	23.072	
7	1'28.767	19.944	25.343	20.696	22.784	271.0							
8	1'28.555	19.530	25.449	20.821	22.755	277.4							
9	1'28.032	19.353	25.215	20.696	22.768	278.8							
10	1'34.406 P	20.324	26.231	21.362	26.489	278.7							

Run #	2	Front Tyre	Slick-Medium	Rear Tyre	Slick-Medium	
			14 Laps at start		14 Laps at start	
11	2'01.383	23.432	28.106	21.734	23.184	
12	1'28.271	19.516	25.324	20.511	22.920	281.2
13	1'26.169	19.230	24.640	20.101	22.198	278.4

19th 5 Johann ZARCO KTM FRA
Red Bull KTM Factory Racing
Runs=2 Total laps=9 Full laps=5

Run #	1	Front Tyre	Wet-Medium	Rear Tyre	Wet-Medium	
			New Tyre		New Tyre	
1	1'46.529	21.191	27.192	22.216	23.889	
2	1'30.072	20.036	25.858	20.994	23.184	269.1
3	1'29.730	19.630	25.842	21.332	22.926	271.7
4	1'28.310	19.589	25.286	20.641	22.794	277.2
5	1'32.972 P	19.591	25.509	20.865	27.007	276.1

Run #	2	Front Tyre	Slick-Medium	Rear Tyre	Slick-Soft	
			3 Laps at start		3 Laps at start	
6	3'23.786	20.147	26.147	20.888	22.928	
7	1'28.641	19.337	24.593	22.322	22.389	278.1
8	1'27.044	18.943	25.125	20.778	22.198	281.4
	unfinished	18.760	24.652			285.1

20th 41 Aleix ESPARGARO APRILIA SPA
Aprilia Racing Team Gresini
Runs=1 Total laps=2 Full laps=1

Run #	1	Front Tyre	Slick-Medium	Rear Tyre	Slick-Soft	
			New Tyre		New Tyre	
1	1'36.189	24.312	29.106	22.732	24.605	
2	1'34.648	20.563	26.450	23.620	24.015	266.0

21st 29 Andrea IANNONE APRILIA ITA
Aprilia Racing Team Gresini
Runs=2 Total laps=4 Full laps=0

Run #	1	Front Tyre	missing data	Rear Tyre	missing data	
		**	Laps at start	**	Laps at start	
1	14'09.197	28.268	30.094	23.871	29.237	
2	1'44.486 P	22.963	27.587	23.594	30.342	253.9
Run #	2	Front Tyre	Slick-Medium	Rear Tyre	Slick-Soft	
		**	9 Laps at start	**	15 Laps at start	
3	4'02.873	25.125	29.696	24.764	38.023	
4	2'20.924 P	24.203	32.603	26.629	57.489	230.3

22nd 42 Alex RINS SUZUKI SPA
Team SUZUKI ECSTAR
Runs=2 Total laps=3 Full laps=0

Run #	1	Front Tyre	Wet-Soft	Rear Tyre	Wet-Soft	
			New Tyre		New Tyre	
1	1'49.056	23.165	28.086	22.105	24.849	
2	1'35.554 P	20.309	26.049	22.041	27.155	268.3

Fastest Lap: Marc MARQUEZ Repsol Honda Team SPA 1'23.116 18.359 23.875 19.474 21.408

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