PLANORA

Informed industrial decision-making

Optimize your production schedule
to maximize industrial performance

LEAN ART

Optimization Engine

Automatic search for the best production schedule

Discover key performance indicators, automatically generated by the optimization engine in Power BI

OPTIMIZED SCHEDULE

Optimization algorithm result

LEAN ART

End date (le plus ancien), Start date (le plus ancien), Due date (le plus ancien), Planned start date (le plus ancien), Planned end date (le plus ancien) by Dat...

ID	OF	April 2026																			
		15		16							17							18			
		Satu	Sunday, 12	Monday, 13	Tuesday, 14	Wednesday	Thursday, 1	Friday, 17	Saturday, 1	Sunday, 19	Monday, 20	Tuesday, 21	Wednesday	Thursday, 2	Friday, 24	Saturday, 2	Sunday, 26	Monday, 27	Tuesday, 28		
1	OF 37			OF 37																	
2	OF 7			OF 7																	
3	OF 13				OF 13																
4	OF 19				OF 19																
5	OF 43				OF 43																
6	OF 49				OF 49																
7	OF 14					OF 14															
8	OF 2					OF 2															
9	OF 32					OF 32															
10	OF 38					OF 38															
11	OF 44					OF 44															
12	OF 8					OF 8															
13	OF 18					OF 18															
14	OF 48					OF 48															
15	OF 15						OF 15														
16	OF 3						OF 3														
17	OF 33						OF 33														

SIMULATED MASTER PRODUCTION SCHEDULE

Simulation algorithm result

◆ Default ◆ due_date (le plus récent)

ID	OF	April 2026																							
		15		16							17									18					
		Satu	Sunday, 12	Monday, 13	Tuesday, 14	Wednesday	Thursday, 1	Friday, 17	Saturday, 1	Sunday, 19	Monday, 20	Tuesday, 21	Wednesday	Thursday, 2	Friday, 24	Saturday, 2	Sunday, 26	Monday, 27	Tuesday, 28						
1	OF_07			OF_07																					
2	OF_37			OF_37																					
3	OF_13				OF_13																				
4	OF_19				OF_19																				
5	OF_43				OF_43																				
6	OF_49				OF_49																				
7	OF_02					OF_02																			
8	OF_08					OF_08																			
9	OF_14					OF_14																			
10	OF_32					OF_32																			
11	OF_38					OF_38																			
12	OF_44					OF_44																			
13	OF_18					OF_18																			
14	OF_48					OF_48																			
15	OF_03						OF_03																		
16	OF_09						OF_09																		
17	OF_15						OF_15																		

GANTT BY PROJECT

Forecast planning from the digital twin

LEAN ART

Start (le plus ancien), End (le plus ancien) by ID

(Blank)

ID	OF	2026
		Q2
		April
1	Projet 1	Projet 1
2	Projet 2	Projet 2

Projet 1

ID	OF	April 2026														
		15		16					17							
		Satur	Sunda	Monc	Tuesc	Wedn	Thurs	Friday	Satur	Sunda	Monc	Tuesc	Wedn	Thurs	Friday, 24	
1	OF 37	OF 37														
2	OF 7	OF 7														
3	OF 13	OF 13														
4	OF 19	OF 19														
5	OF 43	OF 43														
6	OF 49	OF 49														
7	OF 1	OF 1														
8	OF 31	OF 31														
9	OF 16	OF 16														
10	OF 46	OF 46														
11	OF 10	OF 10														
12	OF 40	OF 40														
13	OF 34	OF 34														
14	OF 4	OF 4														
15	OF 25	OF 25														
16	OF 55	OF 55														

OPTIMIZED SCHEDULING BY MACHINE

Forecast planning from the digital twin

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Machine01

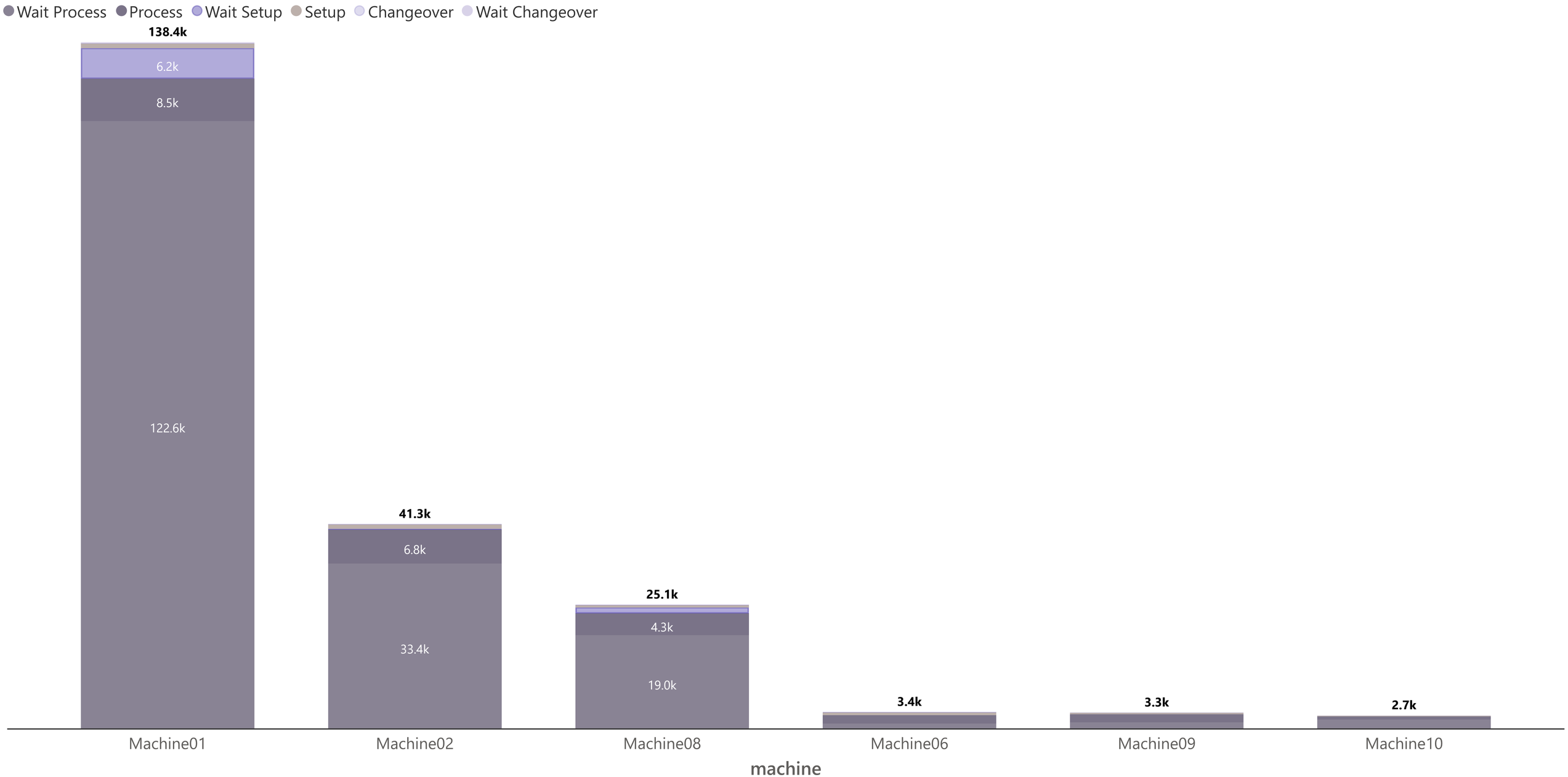
ID	#OF	April 2026							
		15			16				
		Friday, 10	Saturday, 11	Sunday, 12	Monday, 13	Tuesday, 14	Wednesday	Thursday, 1	Friday,
1	OF_07				OF_07				
2	OF_37				OF_37				
3	OF_13					OF_13			
4	OF_19					OF_19			
5	OF_43					OF_43			
6	OF_49					OF_49			
7	OF_02						OF_02		
8	OF_08						OF_08		
9	OF_14						OF_14		
10	OF_32						OF_32		
11	OF_38						OF_38		
12	OF_44						OF_44		
13	OF_18						OF_18		
14	OF_48						OF_48		
15	OF_03							OF_03	
16	OF_09							OF_09	
17	OF_15							OF_15	

Machine02

ID	#OF	April 2026							
		15			16				
		Friday,	Saturday, 11	Sunday, 12	Monday, 13	Tuesday, 14	Wednesday,	Thursday, 16	Friday, 17
1	OF_07				OF_07				
2	OF_37				OF_37				
3	OF_13					OF_13			
4	OF_19					OF_19			
5	OF_43					OF_43			
6	OF_49					OF_49			
7	OF_02						OF_02		
8	OF_08						OF_08		
9	OF_14						OF_14		
10	OF_32						OF_32		
11	OF_38						OF_38		
12	OF_44						OF_44		
13	OF_18						OF_18		
14	OF_48						OF_48		
15	OF_03							O	
16	OF_09							OF_09	
17	OF_15							OF_15	

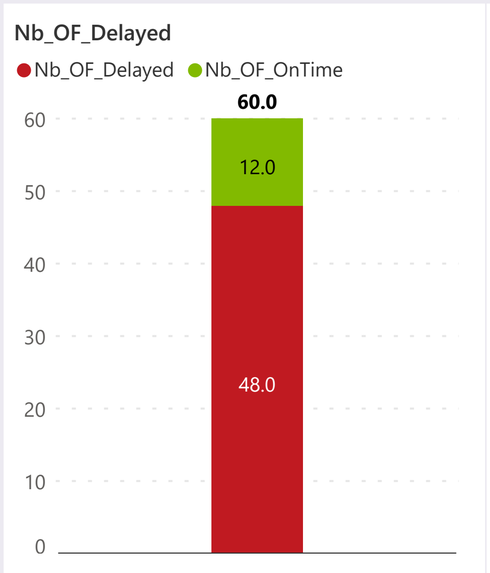
MACHINE LOAD

Queue time, process time, setups and changeovers by machine (in minutes)



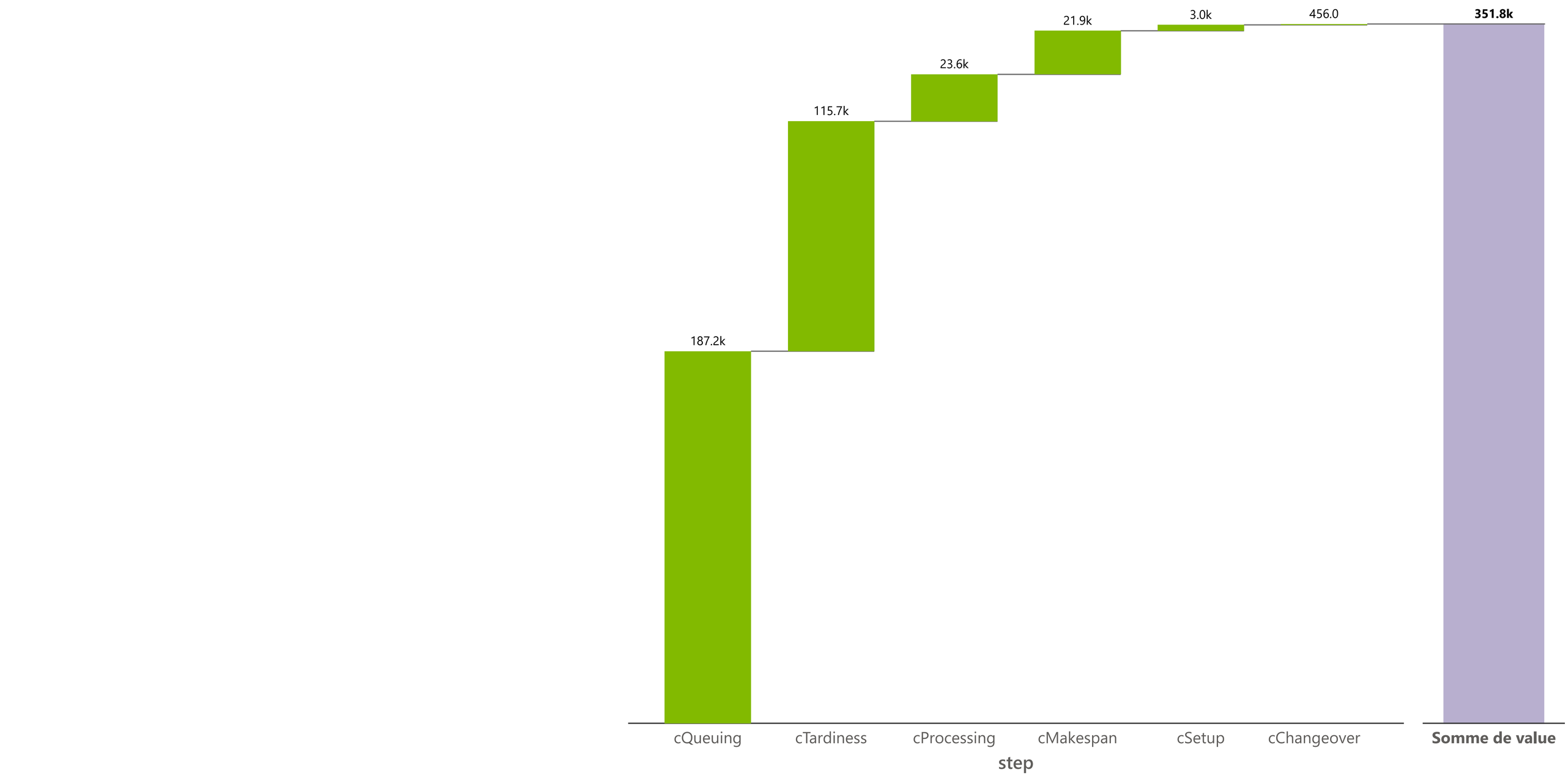
KPI

The optimization algorithm prioritizes meeting customer deadlines and minimizing the overall production schedule duration



OPTIMIZED SCHEDULE PERFORMANCE LEVERS

The optimization algorithm prioritizes meeting customer deadlines and minimizing the overall production schedule duration



Multi-scenario engine

Scenario comparison to support decision-making

PERFORMANCE SCORE BY SCENARIO

Fitness in cumulative minutes

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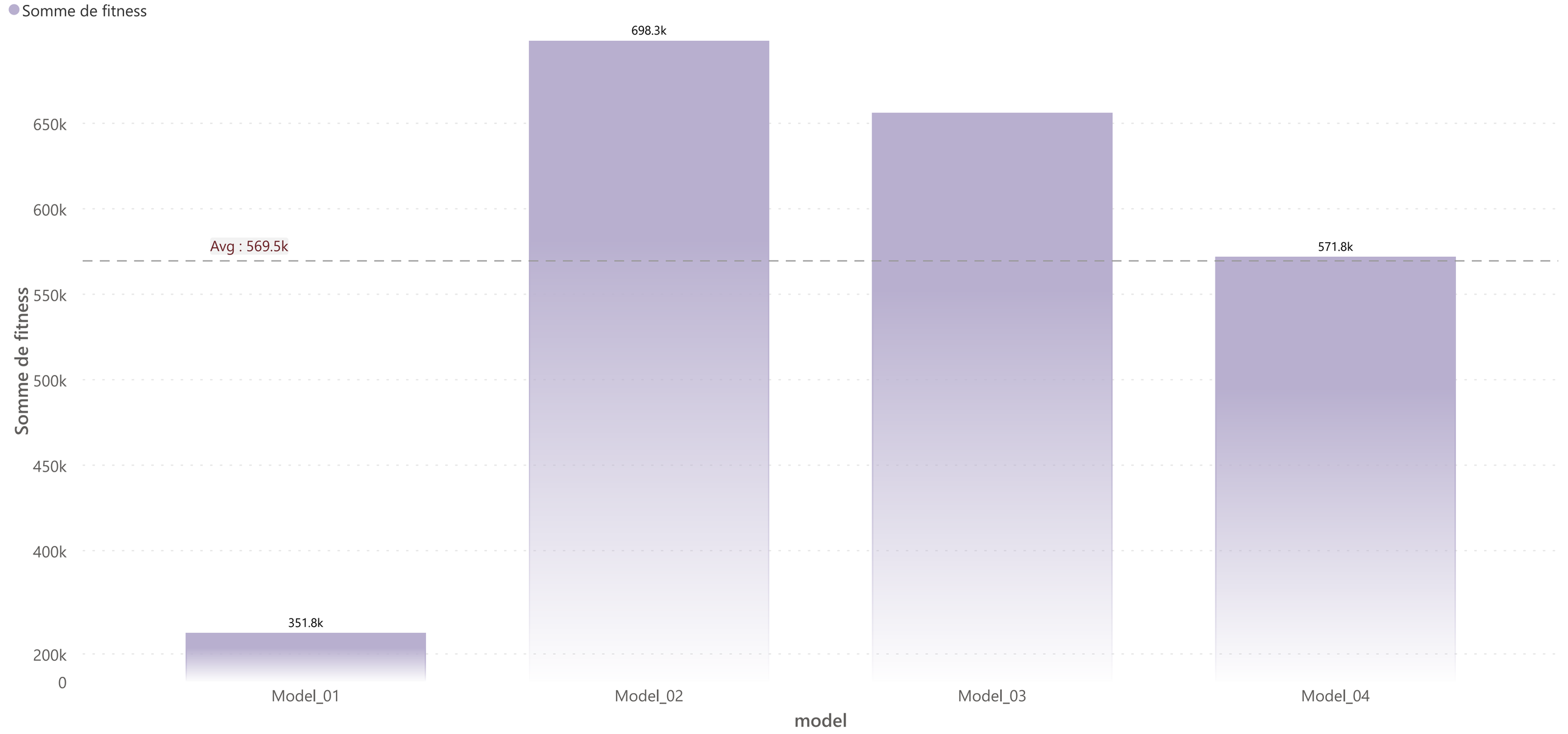
Somme de fitness by model



OPTIMIZED SCHEDULE PERFORMANCE LEVERS

The optimization algorithm prioritizes meeting customer deadlines and minimizing the overall production schedule duration

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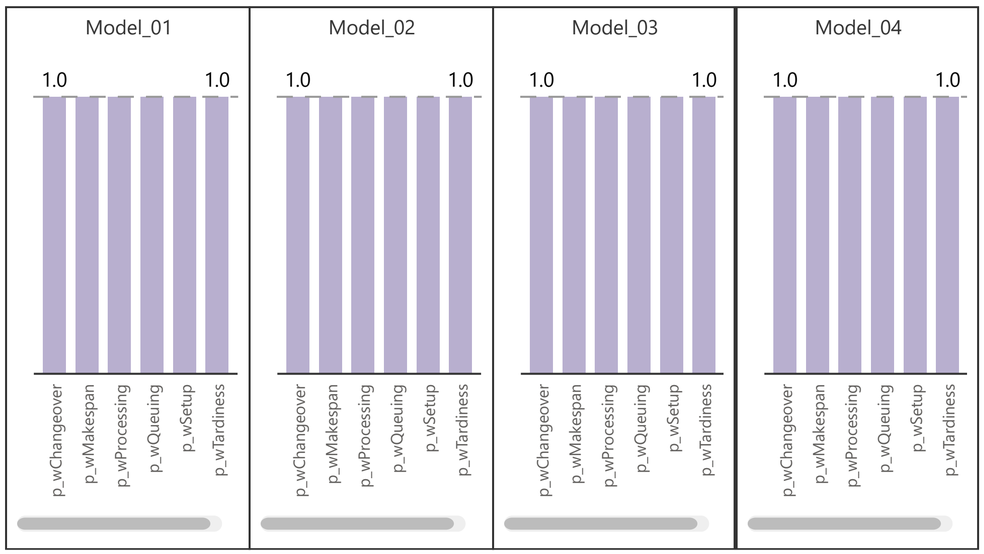

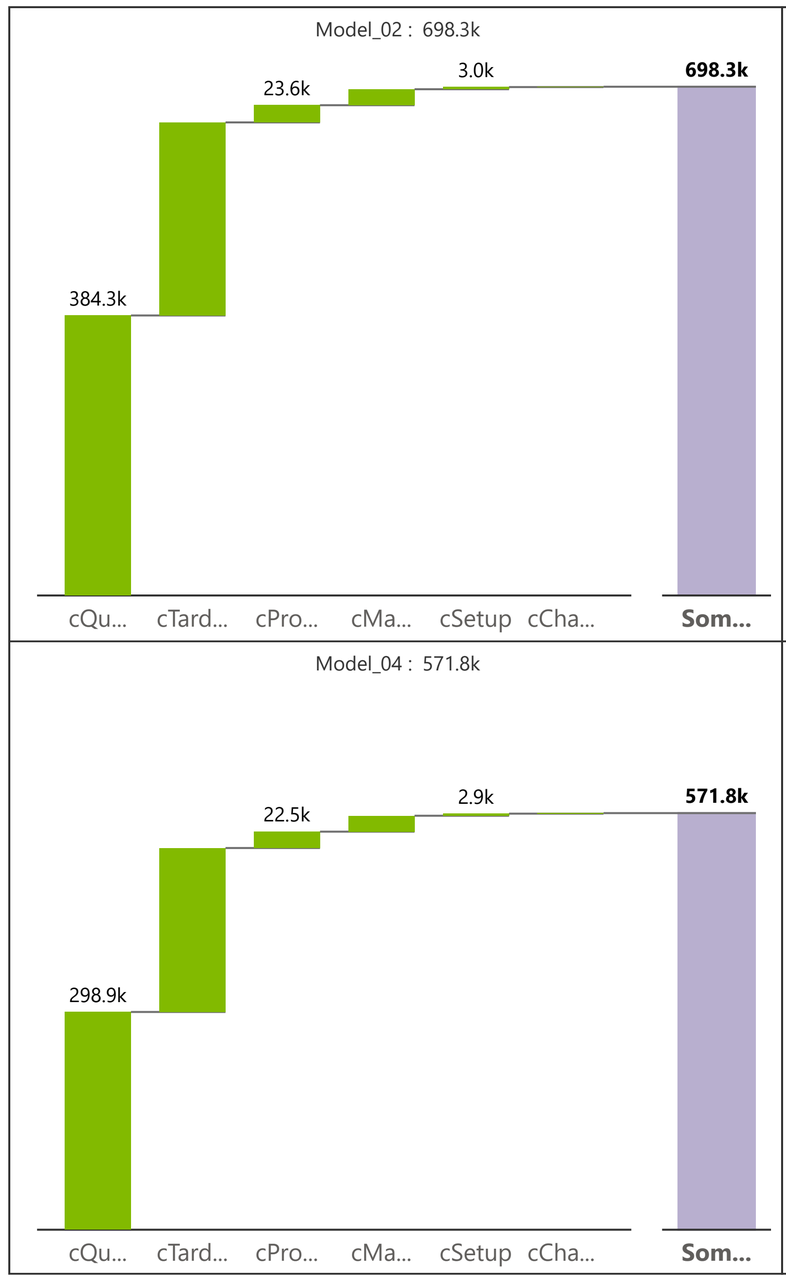

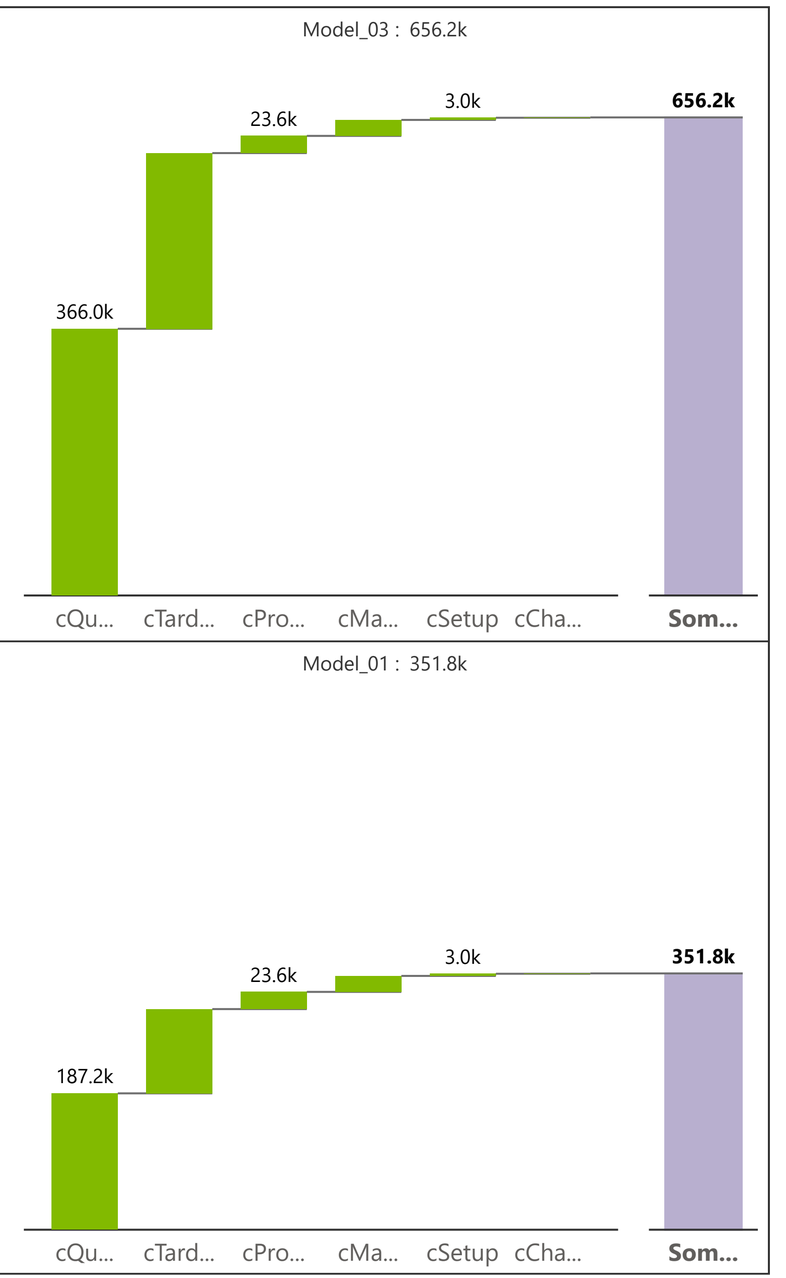

WHERE DOES PRODUCTION TIME GO ?

Share of queuing, setup, changeover and process time per WO (100% = total WO duration)

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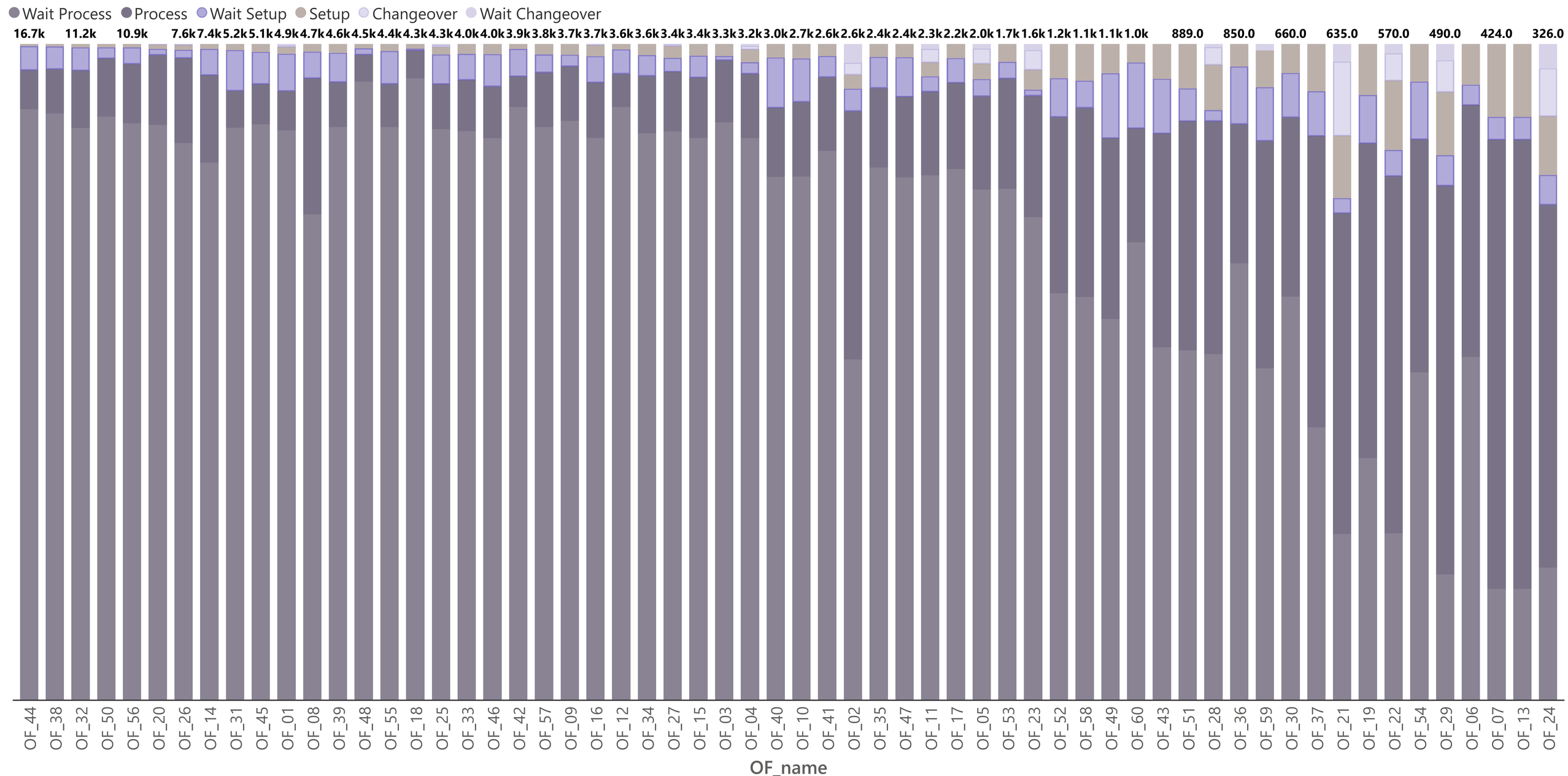

WHERE DOES PRODUCTION TIME GO ?

Queue time, process time, setups and changeovers (in minutes)

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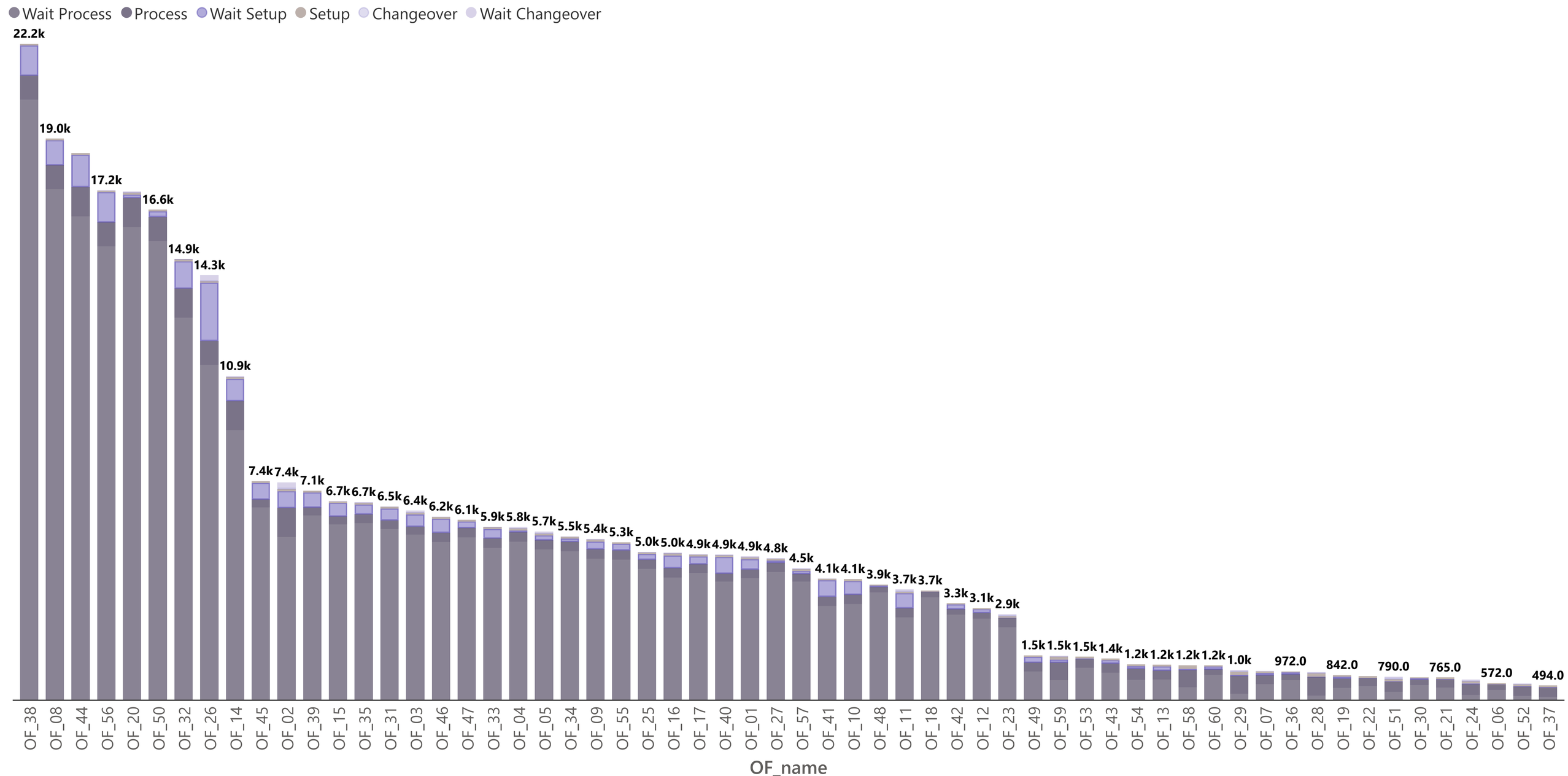

MACHINE LOAD

Time breakdown by machine and by activity (in minutes)

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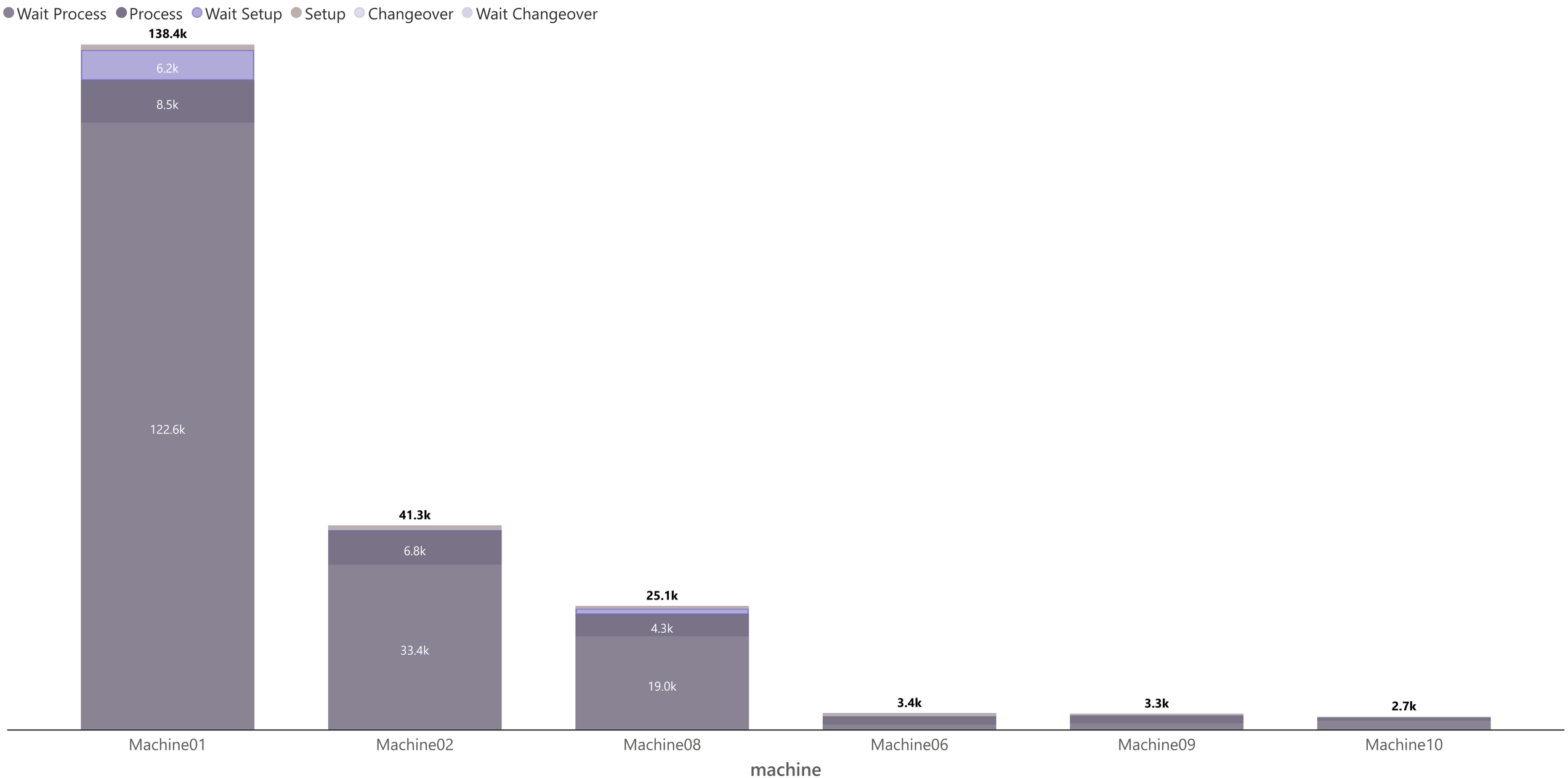
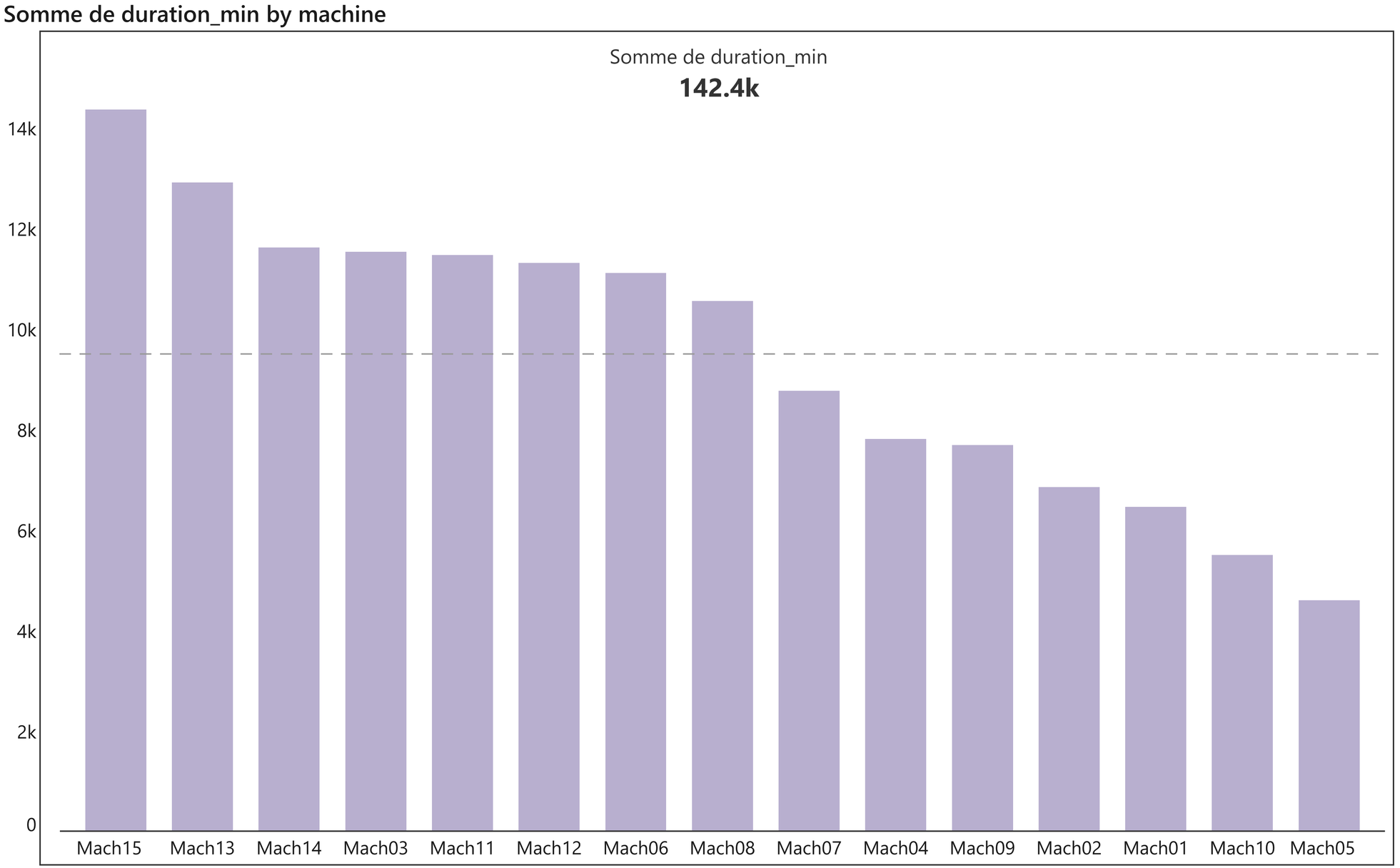


BREAKDOWNS

Theorical slots

machine	source	Somme de duration_n
Machine15	MTBF_REAL	14 355
Machine13	MTBF_REAL	12 900
Machine14	MTBF_REAL	11 610
Machine03	MTBF_REAL	11 520
Machine11	MTBF_REAL	11 460
Machine12	MTBF_REAL	11 300
Machine06	MTBF_REAL	11 100
Machine08	MTBF_REAL	10 544
Machine07	MTBF_REAL	8 760
Machine04	MTBF_REAL	7 800
Machine09	MTBF_REAL	7 680
Machine02	MTBF_REAL	6 840
Machine01	MTBF_REAL	6 450
Machine10	MTBF_REAL	5 490
Machine05	MTBF_REAL	4 590
Total		**142 399**



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