

ANALYSIS OF FACTORS AFFECTING THE TIME OF THE CAR ASSEMBLY PROCESS

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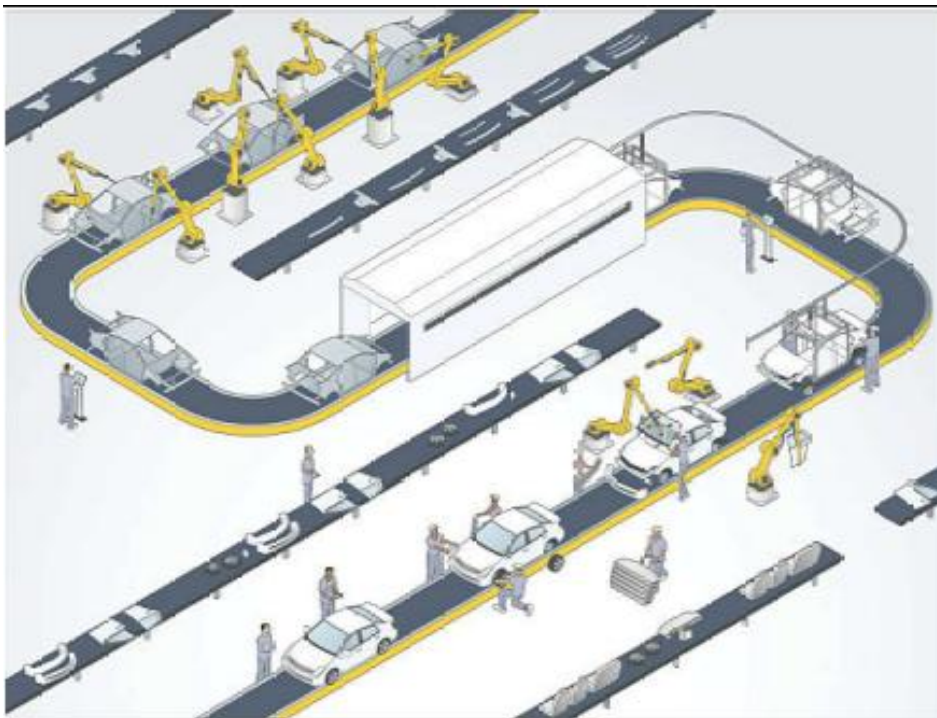
Abstract: Modern car industry high accuracy, efficiency and speed demand does. Competitive market under the circumstances every one car working issuer working release time reduce through expenses reduce and profit to increase movement This view in terms of cars assembly process on time impact doer factors study extremely important.

Key words: cars, collection process, time, work release technology, worker strength, caution parts.

Car working release types

- Individual (order) based on) Output: Small voluminous and high customized products working This type of working in the release assembly duration relatively long will be.

- Small series working Release: Unknown in quantity cars one kind in configuration working is released.



Car gathering line appearance.

- Public working Output: Large car companies by wide This type of working release process high at the level automated and assembly duration the most short is considered.

Car assembly process essence and main stages

- Body parts assembly and welding;
- Paint their work done increase;
- Engine , transmission box, chassis elements installation;
- Electronic systems connect and adjustment;



- Final quality control and test. Cars assembly process on time one how much factors impact These factors

workin

g release technology, worker power skill, caution parts and materials supply , product complexity, quality control processes and internal logistics and working release environment organization to be example if we bring It will be.

Crying on time the most big impact indicating from factors one this working release Robotized technology. systems and automated conveyor lines application collection time much For example, "Toyota Production System" progressive systems short time inside many numerical cars to collect opportunity gives.

Workers qualification and experience is also important from factors is one. High qualified workers short time inside complicated tasks to do capable They are divided into. Workers permanent education and motivation working release efficiency increases.

Necessary caution parts and of materials own on time delivery to be given collection process not to be late "Just- in -Time" (JIT) system through companies warehouse expenses reduces, but this in the system small The interruptions are also large. to delays take arrival possible.

Car design and configuration complexity assembly on time directly impact does. Complex electronic systems, special orders, additional options many if, collection the deadline is the same suitable accordingly increases.

At Uz Auto Motors cars quality inspection process.

Quality control processes are also collected on time impact does. Quality control to do stages many if so, this working release of time to stretch take arrival possible. However quality important happened for this processes working issuer image save to stay service does.

Internal logistics and working release environment organization cars are also assembly to the process directly impact The factory inside logistics – parts right placement, convenient movement roads and ergonomic work places – all this factors work to the speed impact does. Not optimized working release environment time to disappear take is coming.

Car assembly duration reduce — this whole working release system optimized shows. Crying stages automation , lean technologies current module collection from the method use through efficiency noticeable at the level increases. With this together, working release This is also the type to the process directly impact shows . Public working in the release time the most short efficiency is high. In the future digital technologies wide current to grow this about achievements further to strengthen service does.

Crying process efficiency following indicators based on analysis is done:

- One the car assembly for expendable time (tact) and cycle time);
- Workers fertility ;
- Quality control results (repeat) processing necessary was cars number);

- Equipment efficiency;

Statistical to the information according to, public working release in the processes one the car collection for average 15-20 hours time demand Modern robotic on the lines and this time up to 10-12 hours is being reduced.

Conclusion: Cars assembly process many to factors related is, this factors mutual complicated in touch will be . Production release technology, worker power skill , caution parts delivery given, the car complexity, quality control and internal logistics assembly of time efficiency determinant main These factors are right management through car working producers market requirements flexible and effective become remains.

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