



## ANALYSIS OF TYPES OF AUTOMOBILE PRODUCTION

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**Abstract:** Car industry humanity in history the most important technological from achievements one is considered. 20th century from the beginning since this industry not only vehicles working release with limited not, maybe industr, economy, ecology and society many other noticeable on the facades as well impact showing is coming. Every year millions cars working will be issued and this processes various working release types through done Modern car working release technologies increasingly complicated, diverse styles, automation, ecological compatibility and economic efficiency with is waking up.

**Key words:** car, public working release, custom working output, module working release, hybrid cars, electric cars.

Car working release styles one how many criteria based on classified. Most main criteria are: working release size, customization level (individual or mass ), energy source, manufacturer release technology ( hand labor, automation, robotics), platform and module based on approach .

Public working production – cars big in quantity, standardized from parts made without , conveyor system based on working This system was first introduced in 1913 by the Ford Motor Company. to practice current done and the 20th century industry main driving force to the power became. Public working of release to the advantages the following includes: works release speed high , product low cost , productive release process standardized. Another row has its drawbacks. These include individual demand into account cannot, low flexibility and working release of the line change big cost demand does.

Individual or custom working release public working from issuing difference This type of working in the release cars individual customer needs and to their wishes adapting is collected. Basically high affordable, premium segment brands (e.g.Rolls - Royce, Bentley, Ferrari) from style uses. Advantages As for the customer to their wishes maximum at the level adaptable, unique design and configurations and high quality control enters. This to the shortcomings and working release deadline long, expenses high and big in volume working release for invalid .

Module working release approach one how many the model one kind platform based on working to release This method is based on Volkswagen Group popularized they are " MQB " ( Modularer from the Querbaukasten (cross-section platform ) uses. One platform based on various cars working release through company working release expenses reduces. Module working of release features technological flexibility, competitiveness, cross-branding synergy ( a in the enterprise one How many models are produced? release), limited design freedom and sometimes functional in terms of coordination difficult It will be .

The following in the table car working in the release applicable main working release types – mass, serial (batch) and individual (single) in order) – according to their features, advantages, disadvantages and car collection to the process impact is compared.

| Producti<br>on<br>release<br>type | Features | Advantages | Disadvantages | Car in the<br>collection impact |
|-----------------------------------|----------|------------|---------------|---------------------------------|
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|                            |                                                                                |                                                                        |                                                                                               |                                                                                                      |
|----------------------------|--------------------------------------------------------------------------------|------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| Public working release     | High volume, standardized products, automated processes                        | Low unit costs , high efficiency , short collection time (18-24 hours) | Flexibility low , special orders satisfy difficult                                            | Big series Ideal for cars ( e.g. Chevrolet Spark, Damas ) , but special models for suitable it's not |
| Serial working release     | Medium volume, groups according to working release, partial flexible processes | Flexibility, export to the markets adaptation, costs optimization      | Complex planning, collecting time (24-48 hours ) public working to release relatively farther | Export for special models (e.g. Cobalt export) series) in collection effective                       |
| Individual working release | Low volume, special orders, high flexibility                                   | High additional value, customer requirements adaptation                | High costs (50-100% more expensive), long collection time (weeks-months)                      | Special orders (e.g. government for equipped Captiva) suitable, but wide not applicable              |

Table Uzbekistan conditions, in particular , in the case of “ UzAuto Motors” working release types the impact shows.

Cars working release energy to the source Global ecological of requirements increase and fuel prices variability because of alternative energetic cars working release last in years sharp is developing.

To the first one Internal combustion with engine This type of car includes cars gasoline or diesel fuel using They move. traditional car industry main segment organization This type of working of release to the characteristics the following includes: technology advanced, fuel casting infrastructure wide spread, price relatively cheap, ecological harmful waste, fuel at the price dependency and technological in terms of slowly will be updated

Next to the type Hybrid cars Hybrid cars internal combustion engine and electricity engine combination through These cars work. fuel economical and ecological in terms of relatively safer.

Next electricity electric vehicles (EV). cars only electricity energy with They work. Tesla , Nissan Leaf, BYD such as brands through are becoming more popular. Electric cars advantages many . For example to the atmosphere harmful waste does not emit electricity energy relatively cheap and engine performance silent and smooth will be. disadvantages if we come charging infrastructure still complete unformed , battery resource limited and cold in the climate work efficiency will be low.

Hydrogen fuel oil cars water steam separates and ecological safe is considered . But their working release, storage and transportation technology complicated.

Modern car working release enterprises high at the level automated. Artificial intelligence, industry robots, IoT and " smart" "factory " concepts wide are being used. In particular, the Toyota Production System (TPS) and Lean Manufacturing methods efficiency in increasing important importance has.

**Conclusion:** Car working release field modern technological development, environmental requirements and economic pressures with wake up without permanent changing is going on . Public working release system still the main place occupying standing although , individual order based on and ecological clean energy to the source based cars industry promising in the direction of is rotating. Automation, digital transformation and modules based on working release and this the field new to the stage take is coming ou.

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