

SCALES OF PRODUCTION

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On behalf of The World Association of Technology Teachers

W.A.T.T.



World Association of Technology Teachers

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CONTINUOUS PRODUCTION

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You should now understand the meaning of single item and batch production. However, your product may best suit continuous production as you may wish to manufacture thousands of the same item.

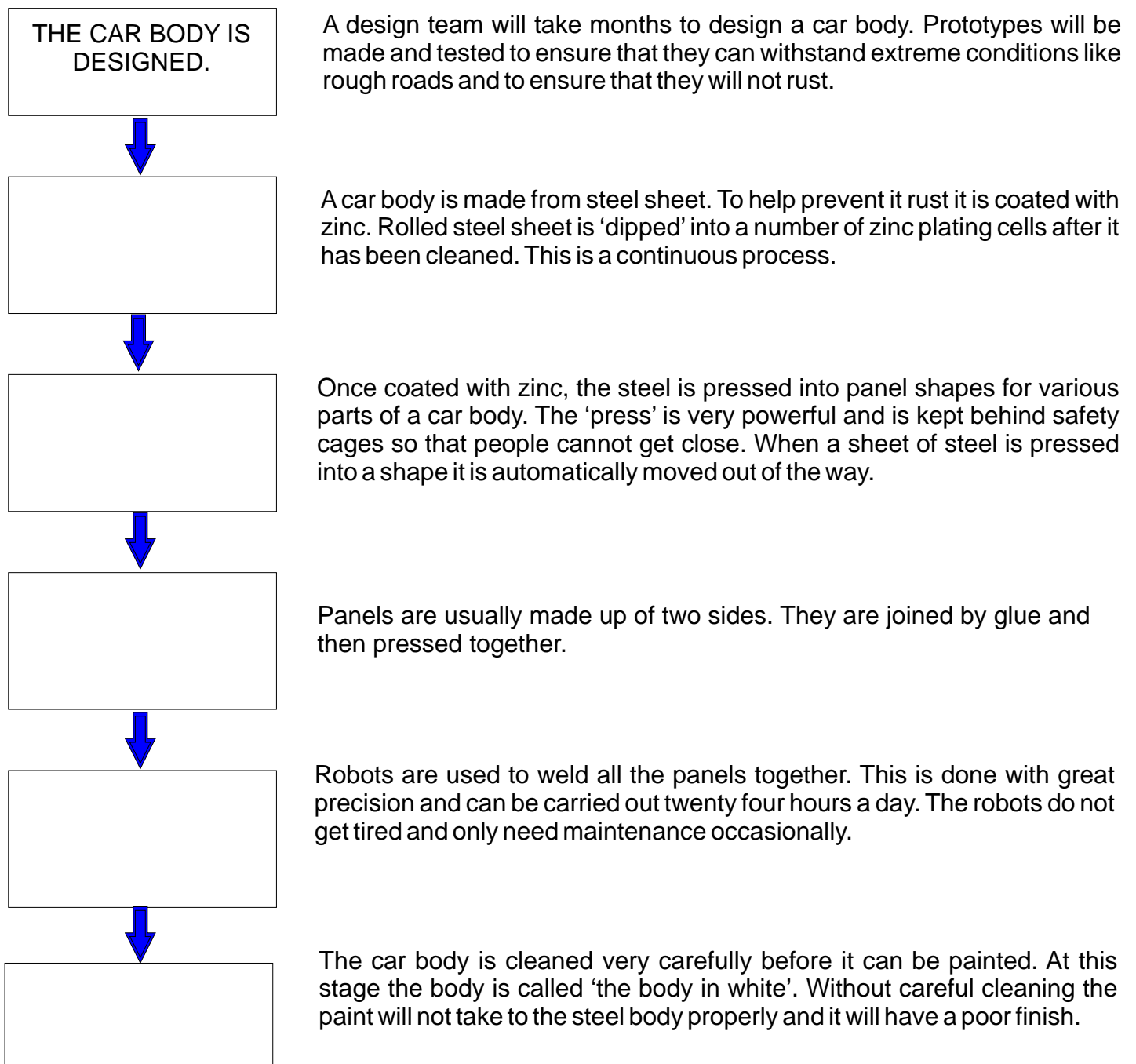
WHAT IS CONTINUOUS PRODUCTION ?

If your design is to be manufactured by continuous production (sometimes called LINE production) the factory / production line will operate continuously day and night. In this way thousands of your product can be manufactured. All machines are arranged on the factory floor so that the product is passed from machine to machine.

CASE STUDY - CAR BODY CONTINUOUS PRODUCTION

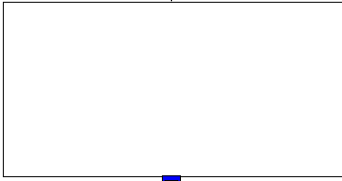
Take time to look at the body of a car. It is a complex piece of engineering. It is designed to be strong, light and to prevent rust even in the worst weather.

Complete the flow chart below by adding a description using key words and phrases only. The first box has been completed for you.



CONTINUOUS PRODUCTION - continued...

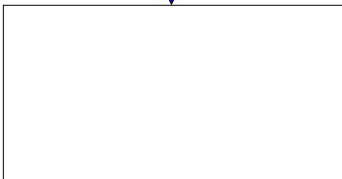
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The underneath of the car body is sealed with a PVC sealant. This will prevent water getting into areas where it will eventually cause rust. Eventually, the entire underneath of the car is sealed. This helps prevent stones from the road causing damage.



The car body is now ready for painting. The paint is applied with special sprays which coat the steel several times with primer paint, coloured paint and a clear finish.



Wax is injected into cavities which could hold rain water. The wax stops water entering and so the car body will not rust for many years



New models of car are tested on the test track. The aim is to make the car body rust. The test results of the tests are used by designers to improve the design so that rust will eventually be a thing of the past.

QUESTIONS:

1. Explain the difference between continuous production and batch production.

2. Do employees who work in factories that batch produce items have different skills to those who work in factories that use continuous production techniques ?
