

# Business



## Building a Jet Engine

1. What is the name of the manufacturer? \_\_\_\_\_

2. What is the principle behind a Jet Engine?

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3. How many parts are there in an engine? \_\_\_\_\_

4. What is the most important part of the engine?

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5. How is a Blade designed? \_\_\_\_\_

6. Where do moulded blades move onto? \_\_\_\_\_

7. Where does the Makino grinder get its instructions from?

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8. What is the benefit of that?

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9. How does it ensure that it is cut to the correct specification?

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10. What are the three ways that the process is monitored by?

A. \_\_\_\_\_ B. \_\_\_\_\_ C. \_\_\_\_\_

11. How is the engine tested?

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12. As well as testing for reliability what else do they test for?

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## Video Source

You can find the original video at:

<http://www.youtube.com/watch?v=N8BvtihvZaE>

## Question Answers

1. What is the name of the manufacturer?

Rolls Royce

2. What is the principle behind a Jet Engine?

Generate thrust by creating a high speed exhaust

3. How many parts are there in an engine?

Thousands

4. What is the most important part of the engine?

Turbine Blade

5. How is a Blade designed?

Computer Aided Design program (CAD)

6. Where do moulded blades move onto?

Automated Production line

7. Where does the Makino grinder get its instructions from?

The CAD definitions

8. What is the benefit of that?

Overcomes inaccuracies of manual operation

9. How does it ensure that it is cut to the correct specification?

CMM Coordinate measuring machine

10. What are the three ways that the process is monitored by?

Computer

Pair of human eyes

Clever Fibre optics

11. How is the engine tested?

The engine is tested on the ground in a special facility

12. As well as testing for reliability what else do they test for?

Bird Strikes