

## How things are made : Manufacturing Processes

Cómo están hechas las cosas: Procesos de producción

Take a look at this video

→ [https://www.youtube.com/watch?v=Um\\_g8sQ\\_p3Y](https://www.youtube.com/watch?v=Um_g8sQ_p3Y)



Types of manufacturing processes  
Complete the words

1) F \_ \_ \_ \_ \_ 2) J \_ \_ \_ \_ \_ 3) C \_ \_ \_ \_ \_

4) M \_ \_ \_ \_ \_ 5) M \_ \_ \_ \_ \_ 6) A \_ \_ \_ \_ \_  
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### Join the type of manufacturing process with its definition

Write the number 1-6 next to the letter

( unir el tipo de proceso de producción con la definición)

- .....a) It involves shaping a liquid or pliable material using a mold.
- .....b) It involves applying forces or pressure and plastically deforming the material to produce the desired shape.
- .....c) It involves adding material to built up an object, typically one layer at a time.
- .....d) It involves pouring molten metal into a mold and allowing it to solidify.
- .....e) It involves combining multiple separate components in a larger assembly.
- .....f) It involves using a tool to remove material from a larger object and it is often used for secondary shaping.

### Complete with the names of the manufacturing processes



Drilling	Injection	Die	Forging	Welding	3D Printing
Turning	Compression	Sand	Rolling	Riveting	Vat polymerization
Reaming	Blow	investment	Extrusion	Brazing	Selective laser sintering
				Soldering	
				Fastening	

Look at the video again . Are these sentences true or false ?

1-Forming process is typically used for metals.....

2- Extrusion is only suitable for 2 D shapes.....

3- Rolling can be used to produced complex shapes.....

4- Casting is a secondary shaping process.....

5-Die casting is mostly used for non- ferrous metals.....

6- Sand casting can be used to produce large and complex parts.....

7- Investment casting is relatively cheap.....

8- Injection molding is mostly used for thermoplastics.....

9-Compression molding is suited for complex designs.....

10-Machining is a material removal process.....

11- Machining is often used for primary shaping .....

12- Joining is a secondary process.....

13- 3D printing is a slow process.....

14- 3D printing is tend to be used for ptototyping .....

