

Situation

You are required to design and make an Embossing Tool that will emboss a 6mm steel washer into a business card.

Points to consider ,in relation to Assessment Objective 1

- research should be carried out into the process of embossing and its wide commercial application;
- candidates should carry out experiments and trials of the embossing process.
- candidates should ensure their embossing tool design is suitable and achievable;
- the design specification should be appropriate to the application of embossing. The product should take into account how repeated quality and accuracy can be assured;
- candidates should identify and collect appropriate data from the investigation, analysis and evaluation of existing similar products.

Brief

Industrial Technology

Embossing Tool

Task Analysis

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Name:

No:

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Embossing Tool

Research – Existing Products

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Name:

No:

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Embossing Tool Research – Embossing Process

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Name:

No:

Industrial Technology

Embossing Tool

Research – Existing Products

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Name:

No:

Industrial Technology

Embossing Tool

Research; Embossing Experiment

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Name:

No:

Industrial Technology

Embossing Tool Research : Tools & Equipment that apply force

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Name:

No:

Industrial Technology

Embossing Tool

Research:

Mechanisms

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Name:

No:

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Embossing Tool

Research : Mechanical Advantage

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Name:

No:

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Embossing Tool

Research: Survey

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Name:

No:

Industrial Technology

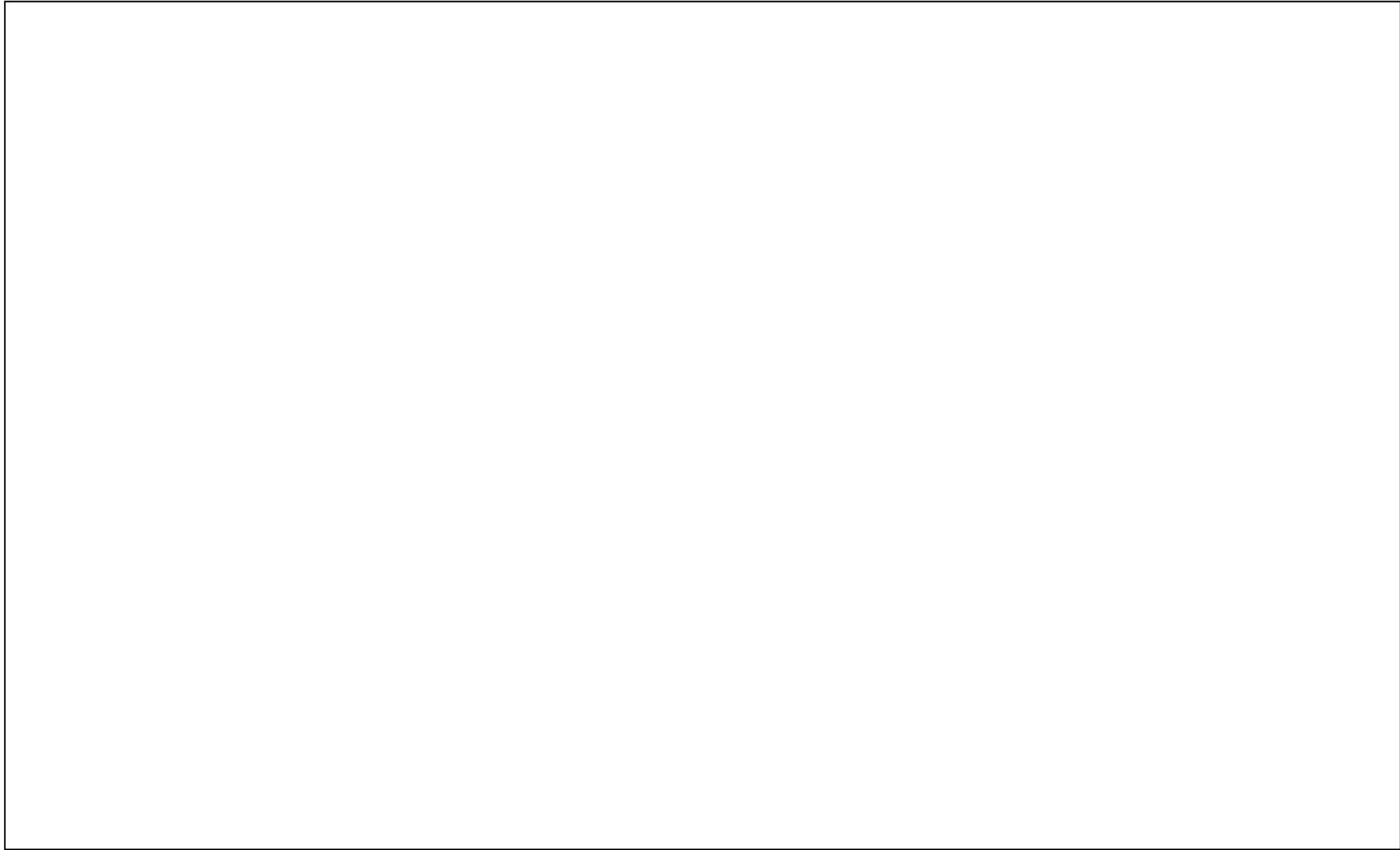
Embossing Tool

Research Summary

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Name:

No:



1

2

3

4

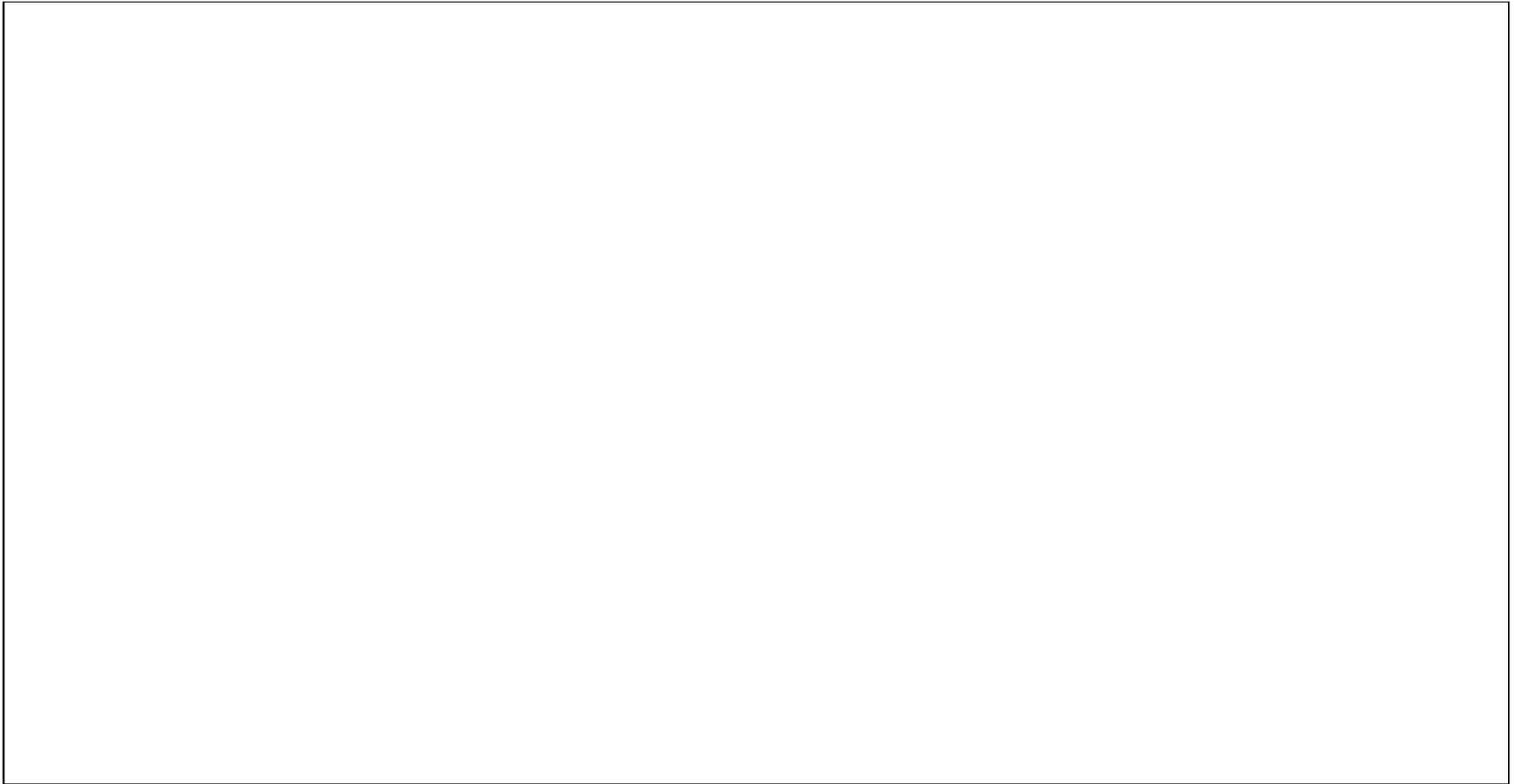
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Industrial Technology

Embossing Tool

Selected Design Idea



Details:

Materials:

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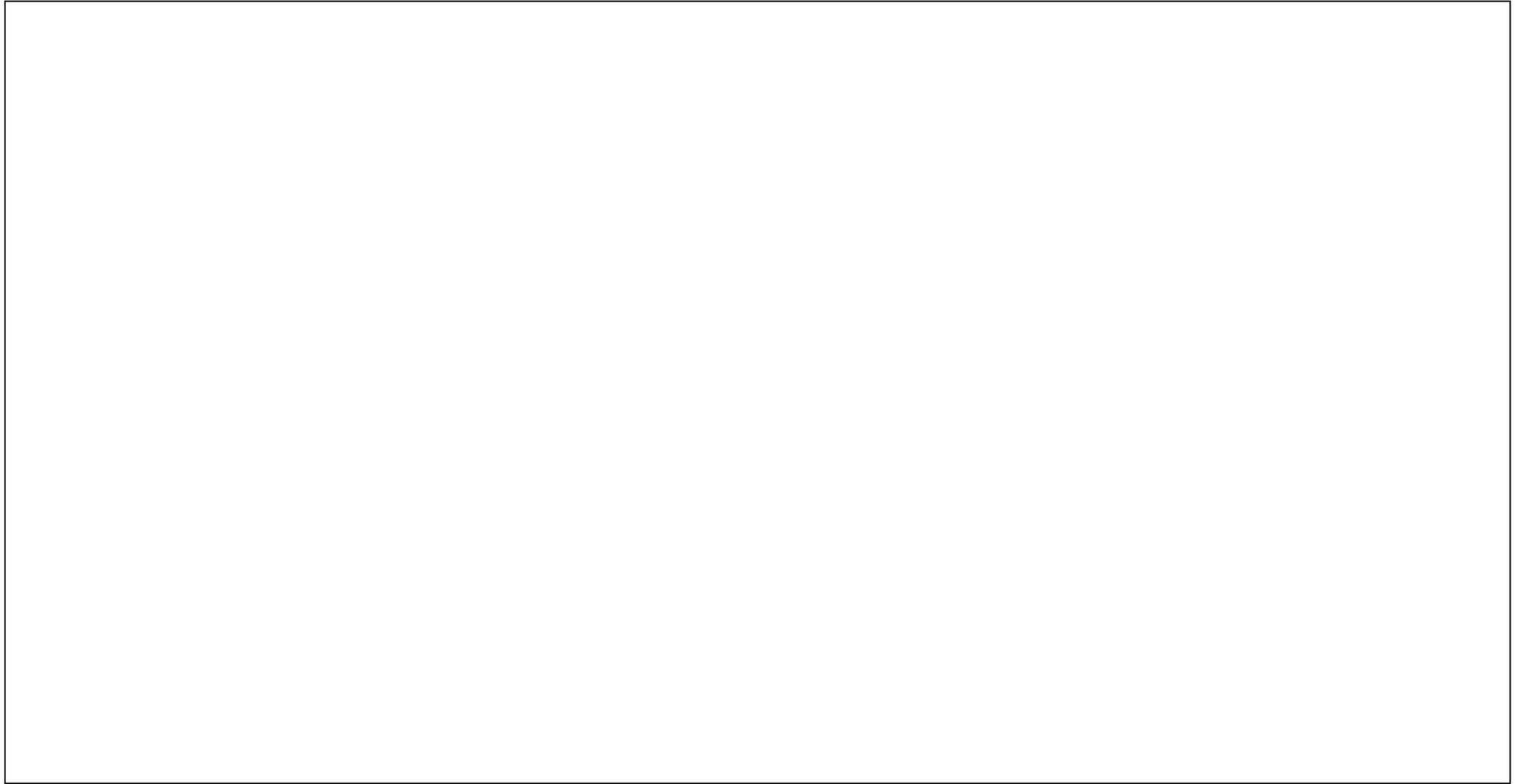
Name:

No:

Industrial Technology

Embossing Tool

Development of chosen Idea



Details:

Materials:

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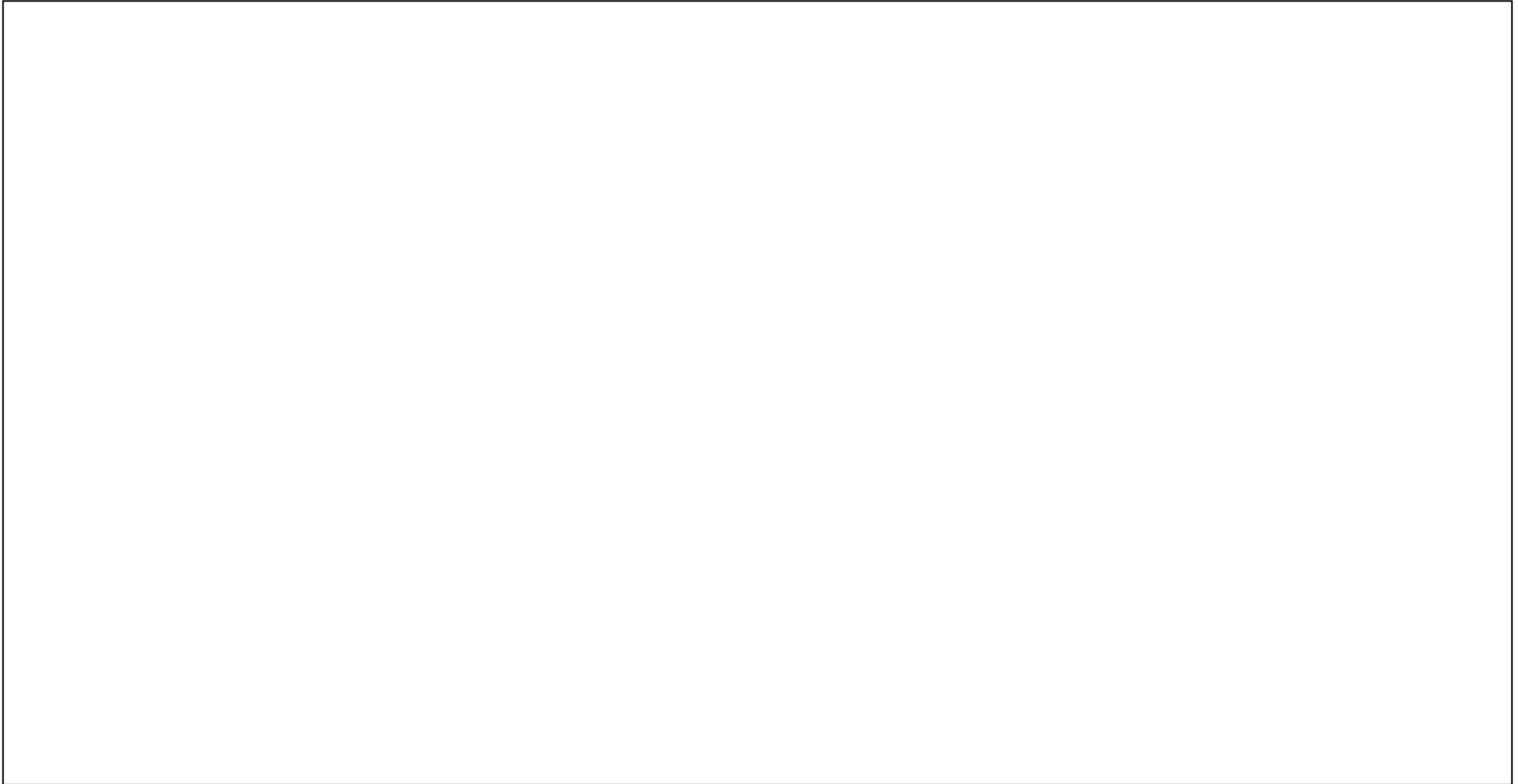
Name:

No:

Industrial Technology

Embossing Tool

Development of chosen Idea



Details:

Materials:

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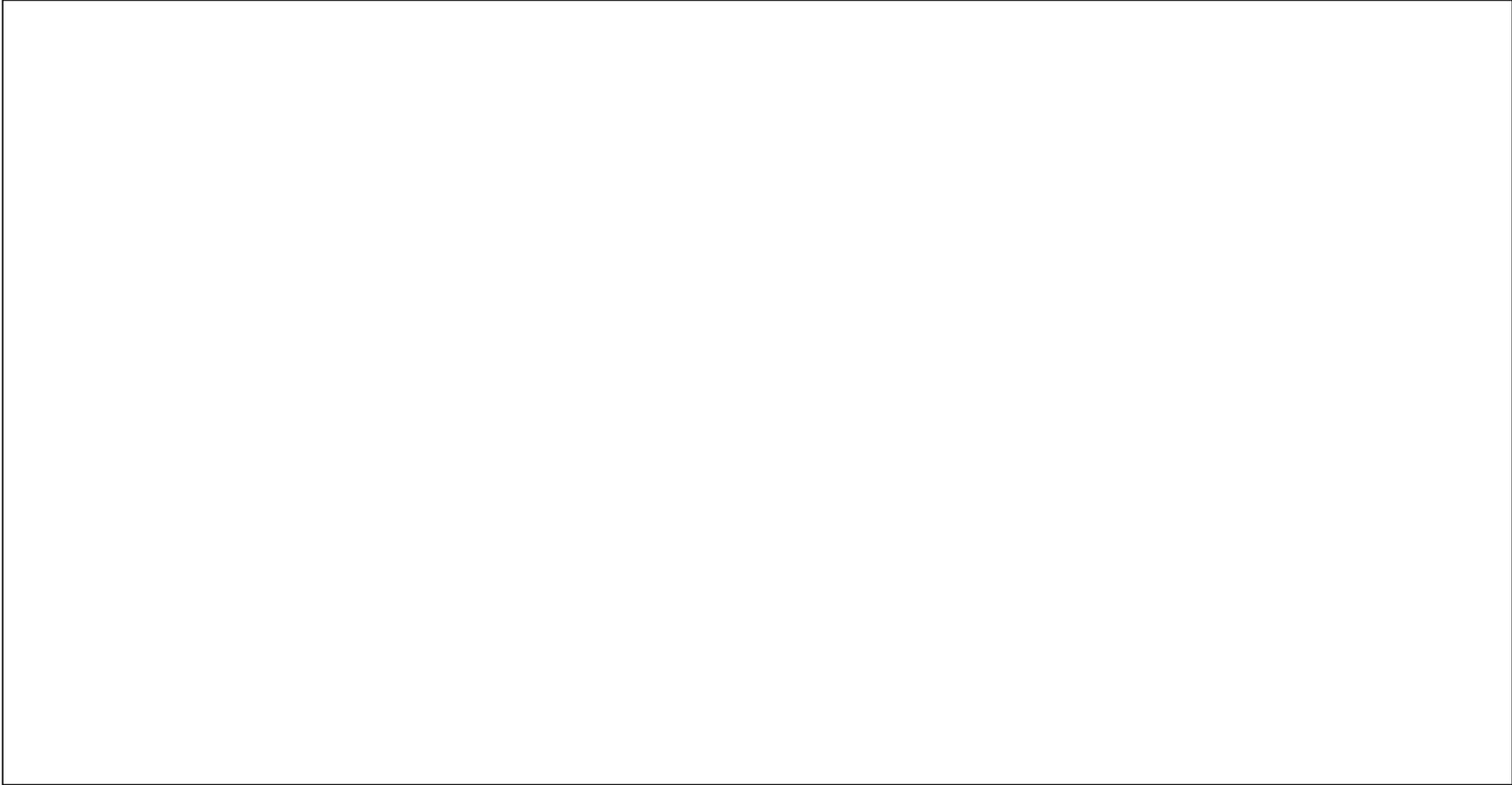
Name:

No:

Industrial Technology

Embossing Tool

Development of chosen Idea



Details:

Materials:

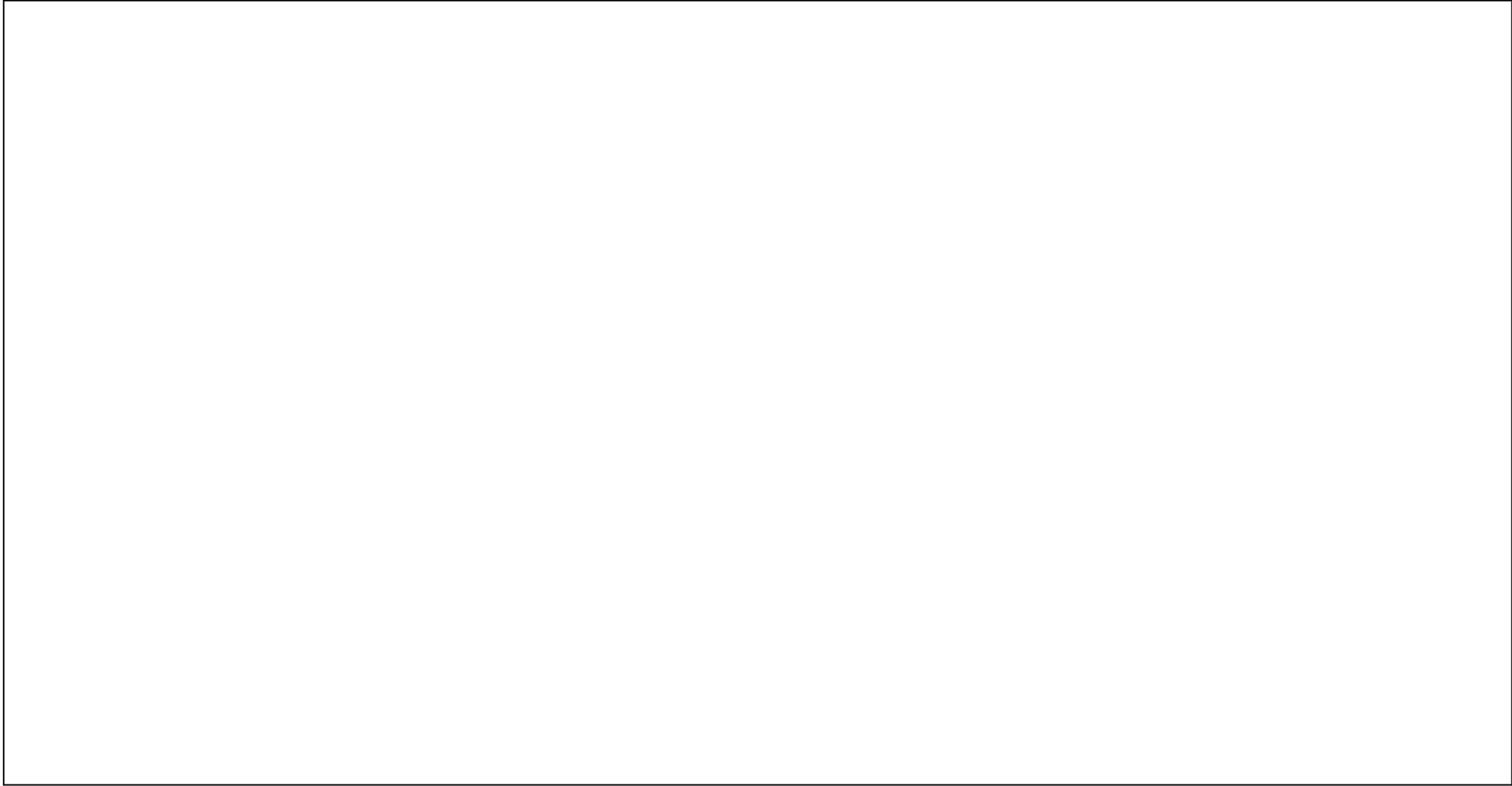
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Name: No:

Industrial Technology

Embossing Tool

Development



Materials:

Method of production:

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Modelling

How the model was construct? (Including materials used)

What did the model confirm?

Describe any findings the model brought to your attention.

What changes were made to the final design, due to modelling.

Summary:

Photographs

This sheet shows rough sketches of the final product.

It Includes dimensions, details of individual parts and how they might fit together and materials to be used.

Industrial Technology

Embossing Tool

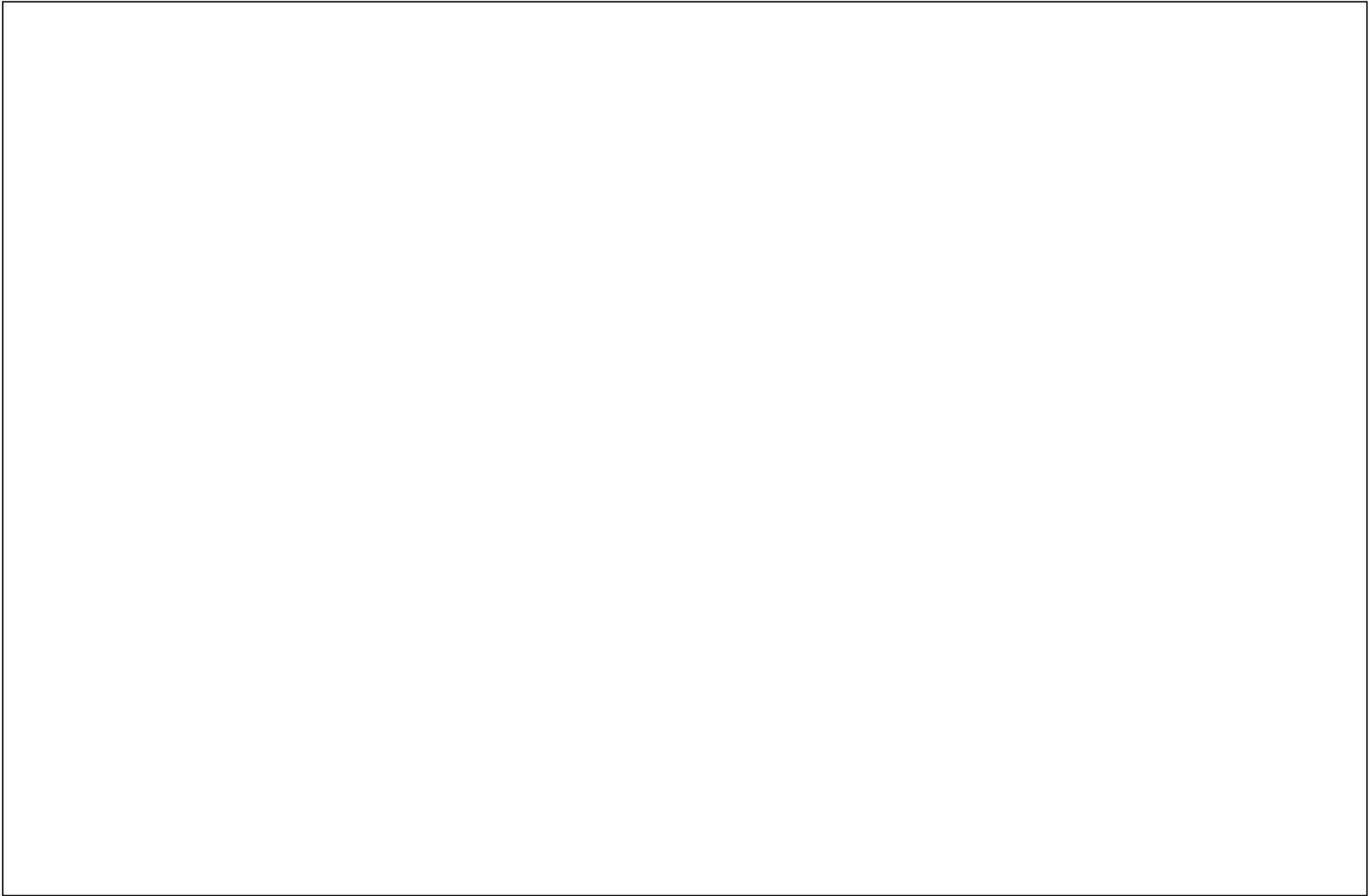
Final Design

- 3D drawing
- Exploded diagram
- Orthographic drawing
- Finishing

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Name:

No:



Part	Quantity	Length	Width	Thickness	Material	Cost

Industrial Technology

Embossing Tool

Plan for Manufacture

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Name:

No:

Industrial Technology

Embossing Tool

Evaluation against Specification

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Name: No:

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Testing

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Name:

No:

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Final Evaluation

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Name:

No:

Industrial Technology

Embossing Tool

Modifications and Improvements

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Name:

No:

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Embossing Tool - Section: Photo Gallery

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Name:

No: