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Research exercise: Dispense-A-Roll Project for PM Company

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Dispense-A-Roll Project
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Problem Statement: To bring a convenient, sustainable, and cost saving method to dispense receipt paper rolls at the point of sale location.

Surveying and Data

- How many rolls are used per day?
- How long does it take to change a roll?
- Is there too much extra packaging for rolls?
- Would you want or use a roll dispenser if available?
- Preferred mounting for roll Dispenser?
- Fixed or sitting?
- Appealing or hidden?
- Any preference for a basic shape?
- Should it be adjustable for multiple sized rolls?

<table>
<thead>
<tr>
<th>Design</th>
<th>Sustainability (4)</th>
<th>Cost (4)</th>
<th>Convenienc (4)</th>
<th>Safety (4)</th>
<th>Orientation (4)</th>
<th>Volume (4)</th>
<th>Versatility of Sizes (4)</th>
<th>Roll Quantity (4)</th>
<th>Esthetics (4)</th>
<th>Total (4)</th>
</tr>
</thead>
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<tr>
<td>Molded Gravity Fed</td>
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<td>20</td>
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</tbody>
</table>

Design Matrix

Design Concepts

- Concept 1: Gravity Fed Tube
- Concept 2: Spring Loaded Without Tray
- Concept 3: Spring Loaded With Drawer
- Concept 4: Wire Frame Gravity Fed
- Concept 5: Molded Gravity Fed

Design Criteria

- Sustainable
- Low Cost (under $8 per unit)
- Convenience
- Orientation of rolls
- Versatility of sizes
- Roll Quantity
- Esthetics

Work Breakdown Structure