|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Part Name | Material Type | Amount of raw material used | Price of material | Unit cost |
| Glue Gripper | ABS Plastic | 0.01lb | $1.50 per lb | $0.02 |
| Gripper | ABS Plastic | 0.05lb | $1.50 per lb | $0.08 |
| Left Side Shell | ABS Plastic | 0.15lb | $1.50 per lb | $0.23 |
| Linkage | ABS Plastic | 0.03lb | $1.50 per lb | $0.05 |
| Right Side Shell | ABS Plastic | 0.17lb | $1.50 per lb | $0.26 |
| Trigger | ABS Plastic | 0.03lb | $1.50 per lb | $0.05 |
|  |  |  |  |  |

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| --- | --- | --- | --- | --- | --- | --- | --- |
| **Part** | **Material** | **Commercial-off-the-shelf (COTS)** | **Manufactured** | **Cost of the material (per kg)** | **No of unites produced per kg.** | **Wastage per kg** | **Material cost per unit** |
| Tip | 6061 Aluminum |  | Yes | $2.5 | 50 | %5 | $0.0525 |
| Trigger | ABS Plastic |  | Yes | $3.2 | 50 | %10 | $0.0704 |
| Linkage | ABS Plastic |  | Yes | $3.2 | 100 | %10 | $0.0352 |
| Gripper | ABS Plastic |  | Yes | $3.2 | 25 | %10 | $0.1408 |
| Coupler | Galvanized steel | Yes |  |  |  |  | $0.24 |
| Child Lock | Carbon steel |  | Yes | $0.36 | 20 | %15 | $0.0207 |
| Right side shell | ABS Plastic |  | Yes | $3.2 | 15 | %20 | $0.256 |
| Left side shell | ABS Plastic |  | Yes | $3.2 | 15 | %20 | $0.256 |
| Spring | Spring steel | Yes |  |  |  |  | $2.08/4=$0.52 |
| 8 #8 screws | Steel | Yes |  |  |  |  | $2.6/8=$0.35 |
| Heater | Steel | Yes |  |  |  |  | $2.34 |
| Battery | Lithium-ion type | Yes |  |  |  |  | $4.50 |
|  |  |  |  |  |  | **Total** | $8.7816 |

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