SUB SYSTEMS IDENTIFIED

* Copper motion unit
* Spool managing unit
* Sensing and cutting unit

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| Copper motion unit |  |  |
| Material interaction |  | .... |
| Data interaction | …. | ….. |
| Spatial interaction |  | …. |

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| Spool managing unit |  |  |
| Material interaction |  |  |
| Data interaction | …. | ….. |
| Spatial interaction |  |  |

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| Sensing and cutting unit |  |  |
| Material interaction |  | ….. |
| Data interaction | ….. | ….. |
| Spatial interaction |  | …… |

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| --- | --- | --- |
| Copper motion unit | Spool managing unit | Cutting unit |
| Material interaction | Material : Copper of 1.5-1.8mm thickness | … |
| Data interaction | …. | … |
| Spatial interaction | Degrees of freedom =2 i.e. 1 for winding and another for to and fro motion | … |

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| --- | --- | --- |
| Spool managing unit | Copper motion unit | Cutting unit |
| Material interaction | Material : Copper of 1.5-1.8mm thickness | Material : Copper of 1.5-1.8mm thickness |
| Data interaction | …. | …. |
| Spatial interaction | Degrees of freedom =2 i.e. 1 for winding and another for to and fro motion | Degrees of freedom =2 i.e. 1 for winding and another for rack and pinion motion motion |

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| --- | --- | --- |
| Cutting unit | Spool managing unit | Copper motion unit |
| Material interaction | Material : Copper of 1.5-1.8mm thickness | … |
| Data interaction | …. | … |
| Spatial interaction | Degrees of freedom =2 i.e. 1 for winding and another for rack and pinion motion | … |