SENSITIVE HANDLING IN FILTER PRODUCTION

Robot-special application in clean-room class 10,000.

1. **Spindling out hollow filaments**
   The hollow filaments are spindled out in bundles of up to two metres in length.

2. **Transfer cutting device**
   The raw material is extracted from the rotating spindle machine and forwarded to the cutting device employing TRAPO conveying technology.

3. **Transfer robot**
   Filter transfer and onward conveying to TRAPO loading robot.

4. **Loading**
   Stainless steel extraction cases are loaded with filters for transfer to the extraction device.

5. **Sterile extraction process | Drying**
   Sterile extraction process with subsequent drying. Conveying to the process machinery is performed by TRAPO conveying technology.

6. **Unloading | Return conveying**
   The unloading robot unloads the washed and dried filters from the extraction cases which are conveyed back to the starting point.

7. **Filling | Evacuation**
   In parallel, cases at the ready are filled and the emptied cases are brought back once again to the loading robot. The onward conveying of the packed cases to dispatch follows.