

ROBOTLINE

Our patented automatic spinning system able to spin any type of material without cross contamination.

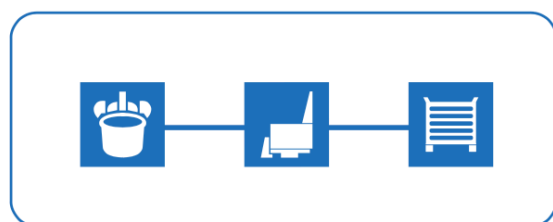


WHAT DOES ROBOTLINE CONSIST OF?

- Basket loading station
- Robotic handler
- Patented automatic centrifuge
- Basket discharge station



Scan me



BENEFITS:

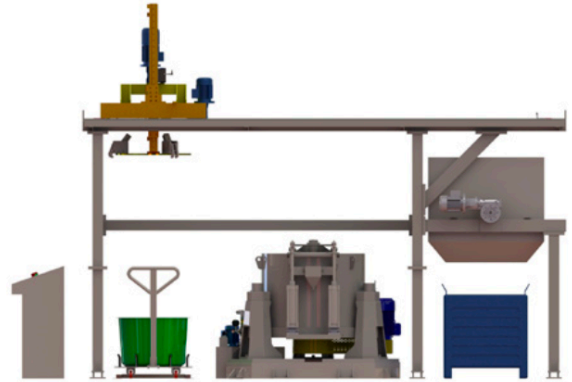
- The basket is completely closed. No leakage at all
- Single plant for different materials
- No cross contamination among materials or oils/coolant
- One single plant both for oil and emulsion
- Capable of spinning chipped and long stringy swarf
- No crusher required
- Bar ends accepted
- The swarf basket is designed to be the centrifuge basket
- The spun swarf is discharged automatically via robotic automation, without any operator's intervention
- Manual or automatic loading of the basket
- As an option, several baskets can be automatically handled, by installing extra roller conveyors.



THE PHASES OF ROBOTLINE

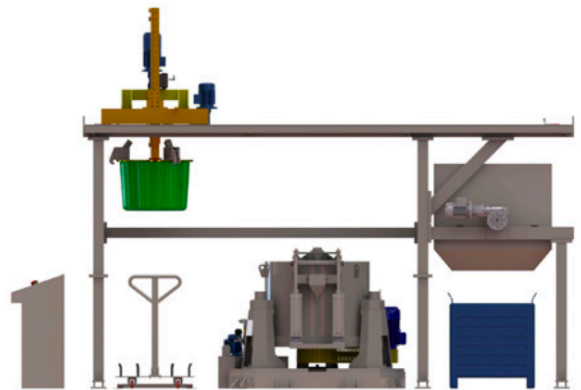
1. TRANSPORT

The conical blind basket, placed under each machine tool, is picked up by the operator and transported to the centrifuge station. The material in the basket can be detected visually or by a sensor.



2. LOADING

Once the basket has been placed in the loading station, the robotic handler will pick it up and automatically insert it into the centrifuge.



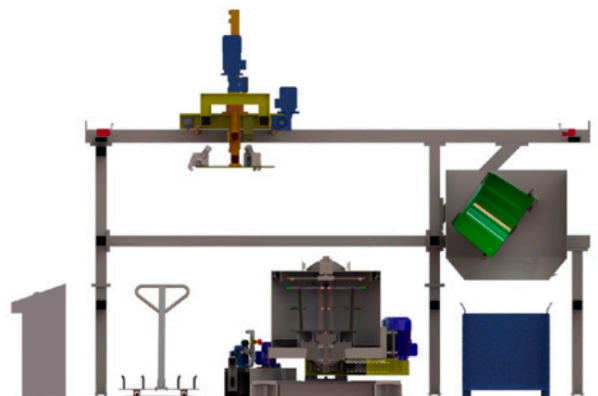
3. SPINNING

In the spinning phase, the chips are separated from the coolant. Residual moisture usually $\leq 2\%$. No cross contamination among materials occurs.



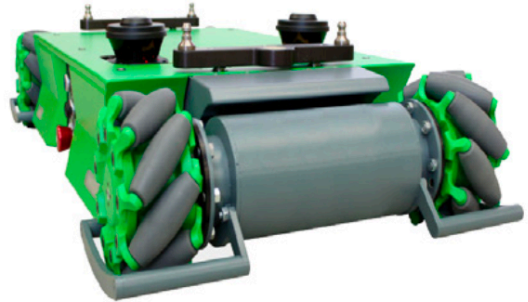
4. DISCHARGE

At the end of the phase, the robotic handler will automatically pick the basket up and tilt the spun swarf into the dedicated discharge station.



Robotline can be implemented through the laser-guided vehicle "Donkey". "Donkey" is the solution for the automatic intralogistics handling.

- Compact and reliable;
- Without blind areas;
- Mecanum wheels with omnidirectional movement;
- Capable of working 24 hours a day without interruptions, thanks to its interchangeable lithium battery system;
- Automatic battery replacement at the charging station thus eliminating any unproductive time.



Charging station

Scan me

