



indass

ROBOTLINE®

THE IDEAL SYSTEM TO SPIN
SWARF AND REMNANTS
WITHOUT ANY CROSS CONTAMINATION



INDASS, YOUR PARTNER FOR THE MANAGEMENT OF YOUR SWARF

BEWARE OF IMITATIONS!



BENEFITS

- **The basket is completely closed. 150 liters and 250 liters volume**
- **No leakage at all**
- **One single plant both for oil and emulsion**
- **No cross contamination among materials**
- **Capable of spinning chipped and long stringy swarf**
- **No crusher required**
- **Bar ends accepted**
- **Manual or automatic loading of the basket**
- **One single plant both for oil and emulsion**
- **The swarf basket is designed to be the centrifuge basket**

YOUR SOLUTION IS
ROBOTLINE®

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SCAN ME

ROBOTLINE®

OUR PATENTED AUTOMATIC SPINNING SYSTEM ABLE TO SPIN ANY TYPE OF MATERIAL WITHOUT CROSS CONTAMINATION.

INDASS has developed this patented system for automatic swarf spinning that allows the management of any material with various shapes, different coolants without any cross contamination.

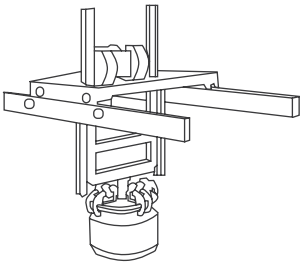


THE PHASES OF ROBOTLINE®



PHASE ONE: 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.



PHASE TWO: 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.



NO CROSS
CONTAMINATION
AMONG MATERIALS
OCCURS

PHASE THREE: SPINNING

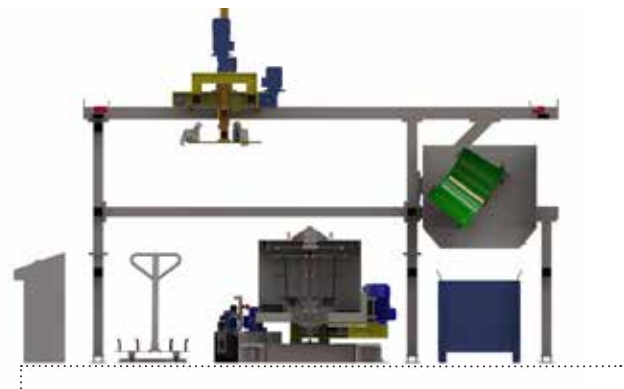
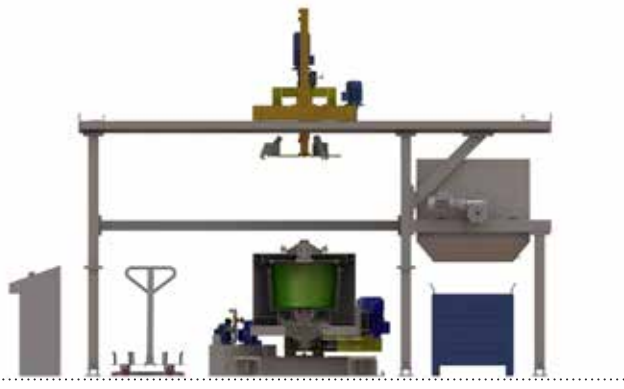
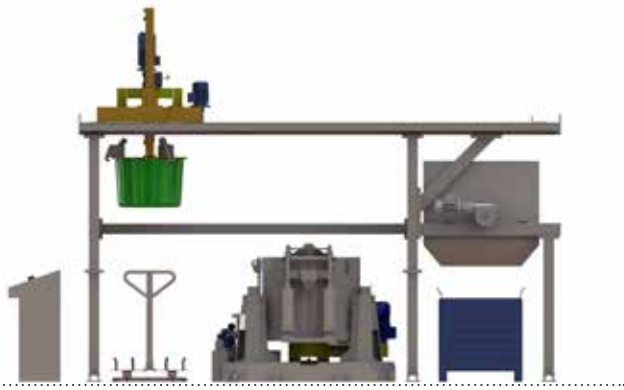
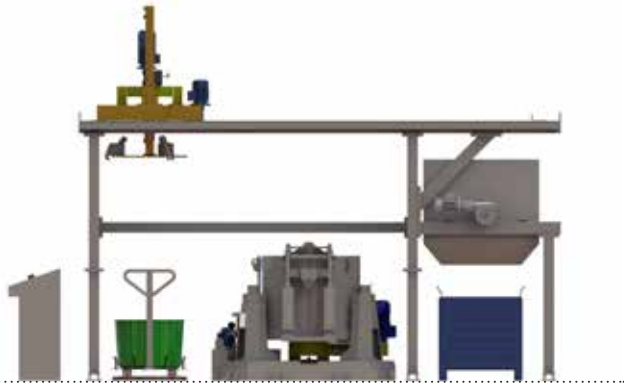
In the spinning phase, the chips are separated from the coolant. Residual moisture usually $\leq 2\%$



PHASE FOUR: 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.





ARE YOU EXPERIENCING THE FOLLOWING ISSUES?

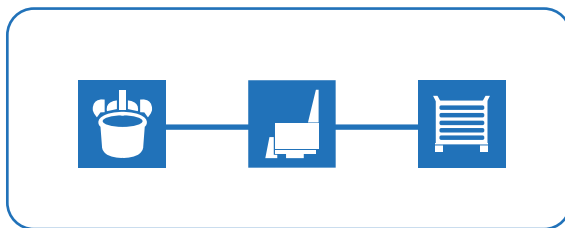
- You do not know how to spin different types of materials?
- The recycling company is under valuing your swarf?
- You are losing oil or emulsion?
- The manual handling of the trolleys has too much operator involvement?
- Your working area is dirty and unhealthy?

THE ECO FRIENDLY FLEXIBILITY

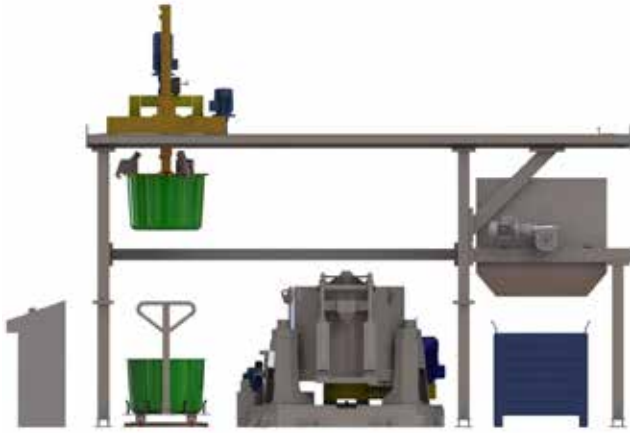
**ROBOTLINE® IS A MODULAR SYSTEM AND HAS
UNIVERSAL ADAPTATION.**

The plant usage can be optimized by means of extra roller conveyors, suitable to create a pre-storage area for multiple baskets waiting to be spun. This allows the operator to be involved in higher value activities.

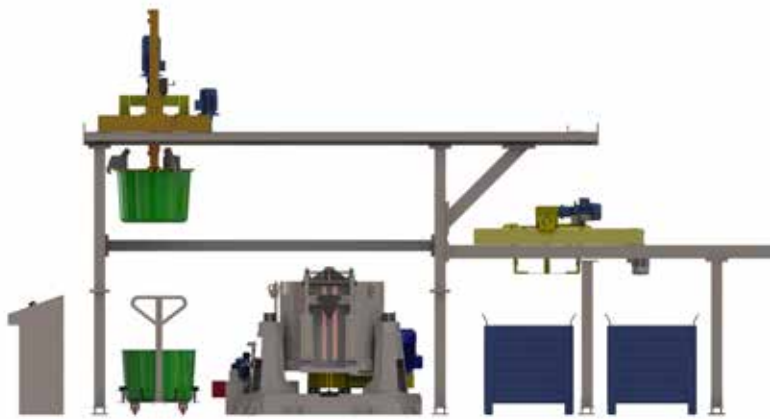
WHAT DOES ROBOTLINE® CONSIST OF?



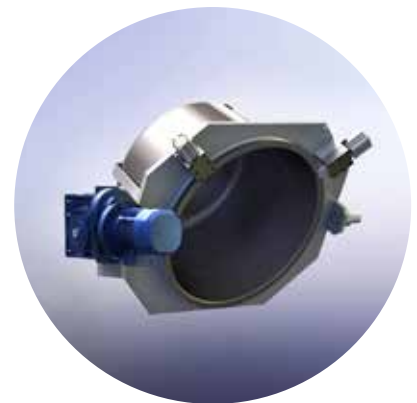
- Basket loading station
- Robotic handler
- Patented automatic centrifuge
- Basket discharge station



■ Configuration with one single discharge station. **Detail:** completely closed basket of 150 and 250 liters, equipped with trolley



■ Configuration with double discharge station. **Detail:** patented automatic centrifuge



■ Configuration with three discharge stations. **Detail:** spun swarf discharge

EXAMPLES OF INSTALLATIONS

SPINNING



Plant with single discharge for multiple materials



Plant with single discharge for multiple materials, with baskets access on the side



Plant with three discharge stations

SPINNING



Plant with double discharge stations for multiple materials



Plant with single discharge for multiple materials



Plant with single discharge for multiple materials

SPINNING + CRUSHING



Plant with double centrifuge and double discharge station



Plant with three discharge stations for steel, brass and stainless steel



Plant equipped with centrifuge for aluminum and brass with silos

SEMI AUTOMATIC ROBOTLINE®

This solution combines the flexibility of the automatic centrifuge able to spin different materials without any cross contamination and a manual and easier handling.

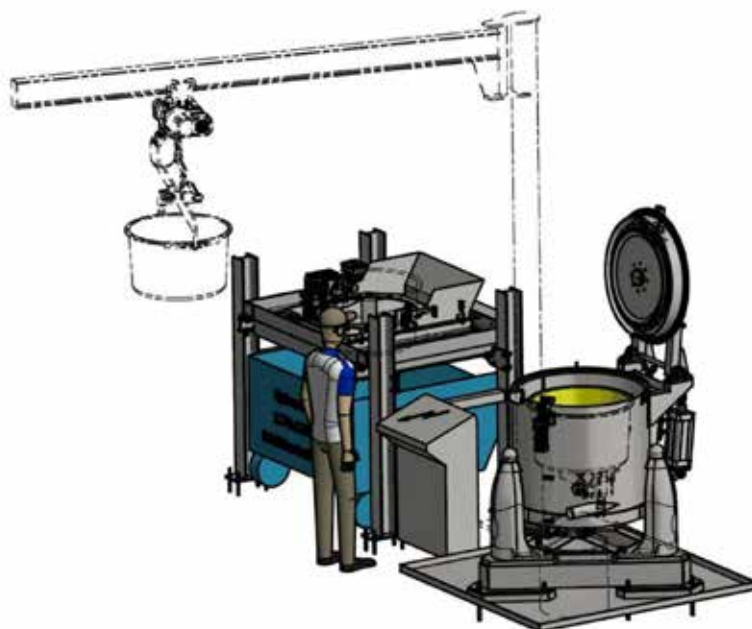
The centrifuge is fed by means of a jib.

Multiple unloading stations can be added.

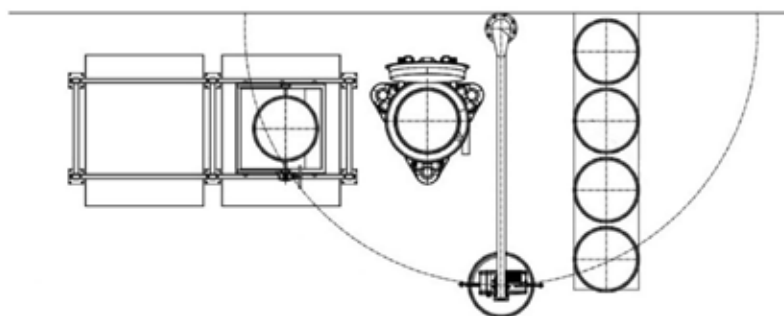
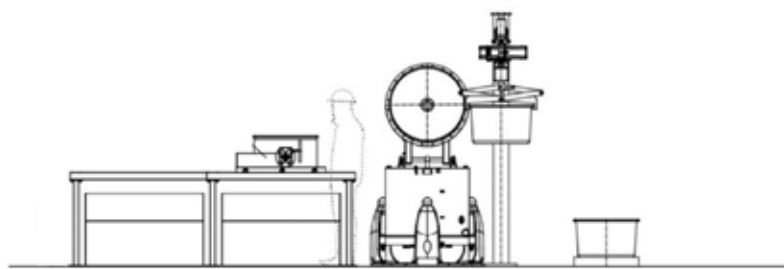


Semi automatic system for the swarf spinning

SEMI AUTOMATIC ROBOTLINE®



■ Configuration with one single discharge station



■ Configuration with double discharge station and extra roller conveyor to create a pre-storage area.



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HEADQUARTERS



PRODUCTION FACILITY



**Swarf treatment plants
Coolant filtration
Scraps and offcuts conveying lines**

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