inoversa
sustainable innovation, engineered to last

RECONSTITUTED TOBACCO LINE

i-TR
Recon Line

Turn tobacco waste into high-value reconstituted sheet — modular, scalable and energy-efficient.



Customer presentation · www.inoversa.com.tr

WHO WE ARE

Engineering a more sustainable process industry

Inoversa A.Ş. is an İzmir-based engineering company. We develop sustainable process technologies for tobacco, food and agriculture, building on more than 15 years of industrial engineering and manufacturing experience.

Tobacco **Food** **Agriculture**

15+

Years of international engineering experience

25+

Years of team experience

PRODUCTS & SERVICES

What we engineer and build

Our machine engineering capability spans food, agriculture and recycling. We design modular, scalable and efficient machines.

1

Custom machinery development

- i-TR reconstituted tobacco process lines
- Agricultural leaf process lines
- Food processing lines for tea, herbal and spice
- Biomass briquette machines and fiber separation units

2

Engineering services & BOT

- Prototyping, layout design, simulation modeling and commissioning

3

Support & Industry 4.0

- Long-term technical support and parts supply contracts
- iPos — production operating system

THE I-TR RECON LINE

What is the i-TR Recon Line?



A fully engineered production line that transforms tobacco waste — dust, fines, stems, cloves and herbs — into reconstituted tobacco sheets.

The line is modular, scalable and highly efficient.

The final product can be used as filler or binder in cigarette production.

Flake sheets | **Cut rag** | **Bobbins**

PRODUCTION PROCESS

Six steps, one continuous line

The production of reconstituted tobacco sheets involves six major steps.

01 Raw Material Collection

Tobacco fines, stems and dust are gathered and stored.

02 Screening & Grinding

Impurities removed; particle size reduced.

03 Mixing

Binders, flavorings and additives blended with the tobacco base.

04 Sheet Formation

Dough transferred into a roller system and turned into thin sheets.

05 Drying

Moisture is removed via thermal or air-based dryers.

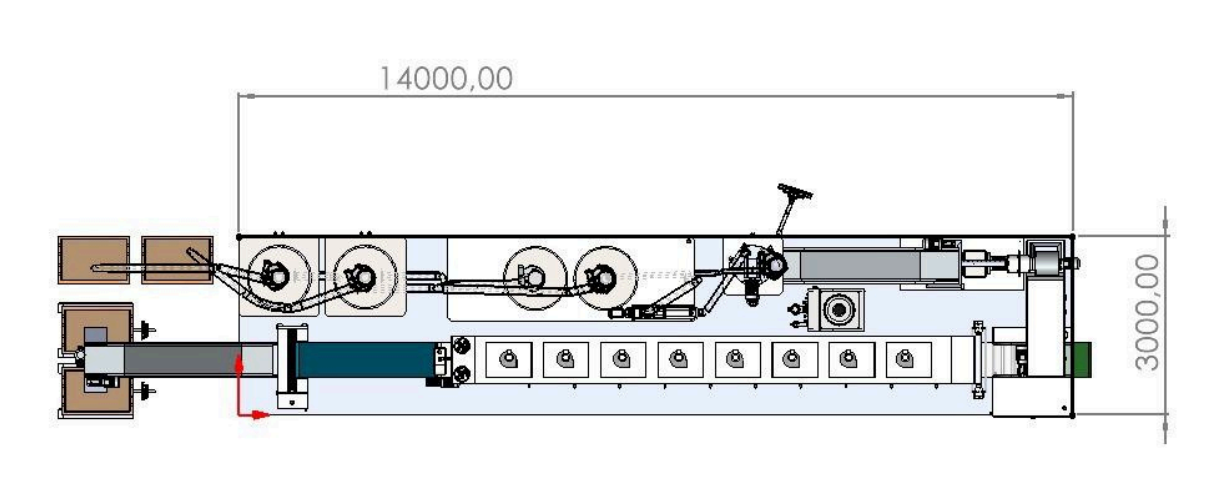
06 Cutting / Rolling & Packaging

Sheets are trimmed and packaged for B2B delivery.

TECHNICAL LAYOUT

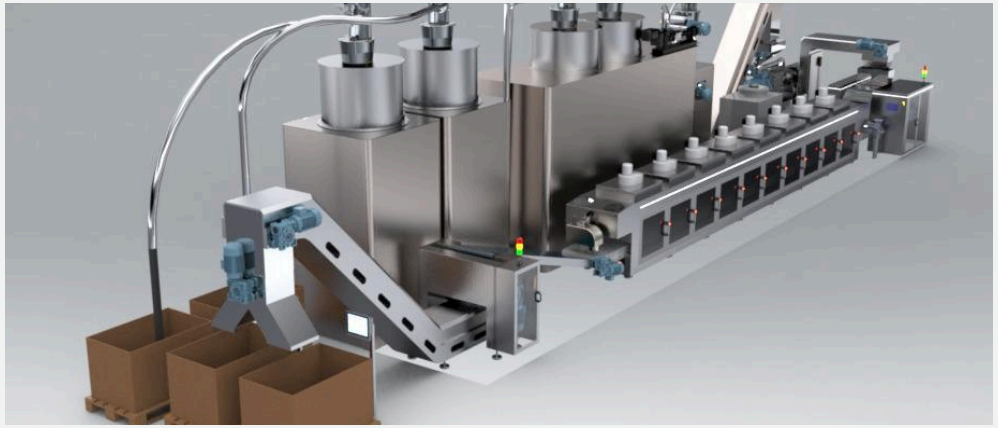
Modular layout

14 m × 3 m, scalable to your capacity, with an optimized footprint of 60 m².



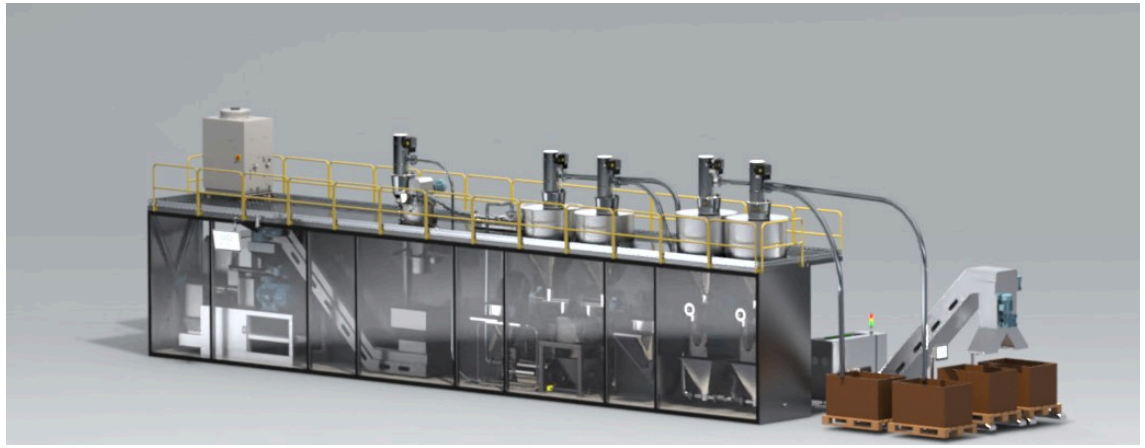
i-TR modular layout — 14 m × 3 m

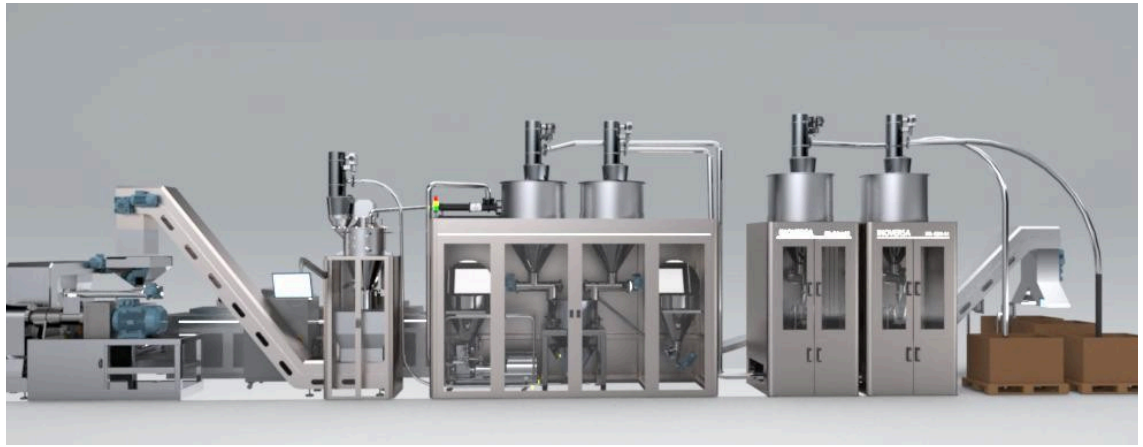


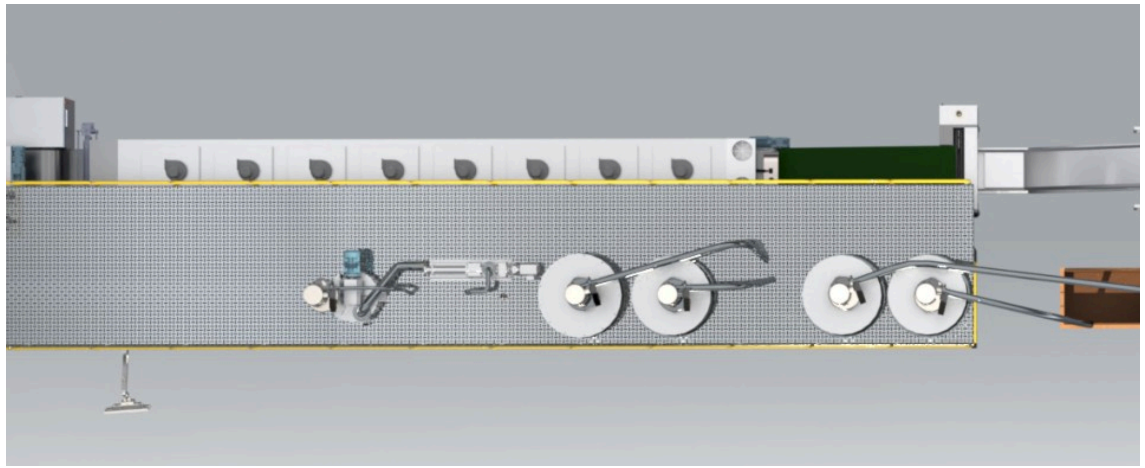


3D VIEWS

i-TR platform









TECHNICAL FEATURES

Built to produce more with less

300 kg/h

Scalable capacity

From min. 150 kg/h to 1,500 kg/h

60 m²

Optimized footprint

Modular setup — scalable

>15×

Less energy*

Also water, CO2 and electricity

14 × 3 m

Modular layout

Scalable to your capacity



* Energy compared with the slurry process.

KEY BENEFITS

Designed for your production

1. Customizable sheet parameters & formulas
2. Easy maintenance and integration
3. CIP cleaning system
4. Accepts all types of tobacco by-products



RAW MATERIAL

All types of by-products



Tobacco waste is the source material for the line, plus herbal raw material like cloves.

PRODUCTS

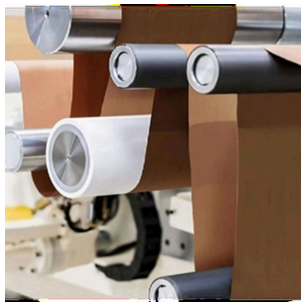
Cut rag, flakes or bobbins



Cut Rag



Flakes



Bobbins

Final product: upon request

DELIVERY MODELS

Choose how we deliver

01

Direct Machinery Sale

02

Build–Operate–Transfer (BOT)

03

Long-term technical support contracts

Each system is tailored to client needs and designed for energy efficiency, low maintenance and integration with existing production systems.

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Let’s talk

Reach out to us for a customized i-TR proposal.

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