
Why Hemp

The Many Benefits of Industrial Hemp

Negative carbon emissions

The carbon it absorbs from the atmosphere during its growth is greater than the carbon emitted by equipment used for harvesting, processing and transporting it.

Zero pesticides

While cotton production accounts for about 1/4 of the world's pesticide use, hemp cultivation does not require pesticides.

Low water input

1/2 of the water used to grow cotton is sufficient for harvesting hemp.

Superior fiber strength, low deformation

Its fiber does not break, does not change its shape after being stretched. Since it is more durable than cotton, buying clothes made from hemp fabric means buying less clothes.

Ideal for zero waste and circular farming

Each part from seed to leaf is used for a separate product and is suitable for eco-friendly cultivation.

High UV protection

Acts as a shield against UV rays.

Anti-electrostatic and anti-bacterial

Absorbs electrostatic accumulation and is naturally hygienic.

Why Hemp

Developments in Turkey

2017

Industrial hemp cultivation process was legally initiated in 2017. As of 2021, Cannabis Sativa cultivation is now permitted in 20 provinces.

2020

While industrial hemp was planted on 466 acres of land in 2019, this figure increased to 5,000 acres in 2020.

2023

Licensing of two new seed varieties, plus incentives for industrial hemp processing plants and R&D support for new application areas are expected.



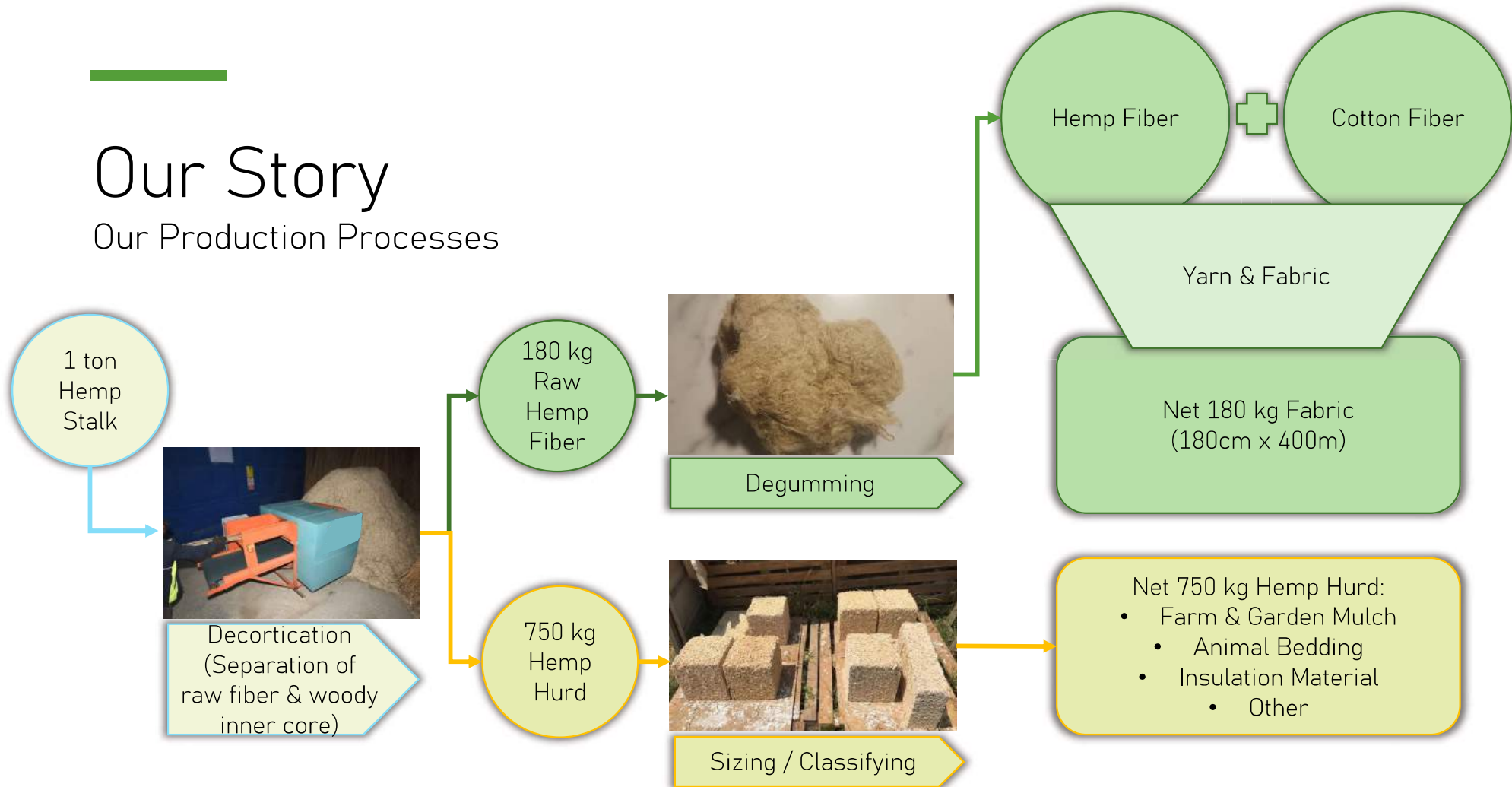
	European seeds	Heirloom seeds
Crop Height	2,5 – 3m	5,5 – 6m
Yield	500 – 600 kg/daa	1200 – 1300 kg/daa

* The difference is in seed quality, not soil or cultivation.

** Figures on heirloom seeds were obtained from our on-farm trials.

Our Story

Our Production Processes



Our Story

What Makes Us Unique



Semi-raw product processing

As own leading role requires, we overcame the lack of mechanization, which is an important problem in each stage of hemp sector, with machinery we developed within the company.



Our Story

What Makes Us Unique



Developed for harvesting and applied for patent, compared to manual applications 60x more efficient equipment



Special method reducing retting period from 4-6 weeks to 8 hours



Secret formula that enables degumming to take less time and fiber to be higher quality



Sizing and classification of hurd according to the needs of the buyers from different sectors



Scalable farmers network and long-term cooperation & supply advantage

Our Services

Hemp Production Processes



Hemp Cultivation

- Partnerships with 35 farmers
- Scalable planting capacity
- Innovative harvesting equipment



Decortication

- 2t/8h production capacity with uniquely effective pooling and decortication process
- Special production tool that increases decortication efficiency



Degumming

- A special formula that increases the efficiency of the degumming process
- Zero waste process using each part of the hemp plant
- Natural fiber with high quality and flexibility



Packaging

- Packaging that sizes hurd according to the need and reduces the cost and inconvenience of transporting it

Our Products

Textile



Raw Fiber

- Second among natural fibers in terms of fiber length, final fiber length, aspect ratio, strength, tensile strength, and breaking length, third in terms of cellulose content



Processed Fiber

- High strength, moisture taking up and breathing capacity
- Does not pile
- Organic
- Antibacterial



Yarn

- Cottenized and suitable to produce hemp and cotton blended fabrics
- 3 times stronger than cotton
- Suitable to produce canvas, tarpaulin, sail, and carpet

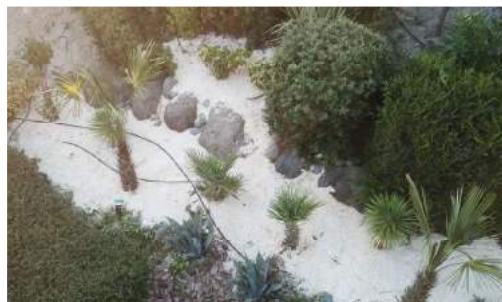


Hemp-Blend Fabrics

- Flexible and does not wrinkle as linen
- Suitable for dyeing and naturally shiny.
- Provides thermal comfort and moisture management
- Ideal for spring / summer collections and uniforms

Our Products

Hemp Hurd and By-Products



Farm & Garden Mulch

- Absorbs up to 4x its weight in water, keeps plant properly hydrated with less watering
- Regulates pH level
- Antibacterial
- Resistant to weed and pests
- Excellent insulation for roots in heat /cold
- Releases rich nutrients



Animal Bedding

- %100 natural, heirloom seeds
- Animals stay dryer than alternatives
- Anti-allergic, anti-bacterial, anti-carcinogenic. Lowers dust and prevents COPD formation
- Absorbs odor and ammonia
- Lasts longer
- Biodegradable
- Light and easy to carry



Insulation Material

- With its high thermal insulation property, gives 50-80% yield in heating/cooling
- Neither decays nor burns but breathes.
- Resistant to ant and mold
- Absorbs carbon
- Flexible for design

Our R&D Projects

Pioneer in Innovation



Revitalizing Eco-Print Techniques

- Improving existing washing, softening and dyeing techniques using food waste and organic material



Expanding Our Products & Services

- Biofuel, automotive parts, seeds, oils



Developing New Types of Medical and Aromatic Natural Fibers

- Producing nettle and flax fibers
- Involving the local communities in producing both new products and ensuring their development in their own localities



New Facility Project

- End-to-end integrated zero waste facility
- Capacity to produce 3,000 tons of hemp fiber per year
- In 6,700m² plot granted in Havza OIZ



Why Us

Application Techniques, Vision & Prestige

Tested and approved, groundbreaking process innovations

Application to organic certification and commitment to eco-friendly practices
Fully traceable process from harvest to production
Competitive decortication and degumming processes

Expert team and advanced ecosystem

Scalable, trained farmer network
Reliable partners
R&D capacity

Long-term cooperation advantage

Significant time saving and reductions in labor, processing costs through improved methods
High capacity for semi-raw and finished products
Ongoing capacity increasing efforts

Vast know-how and consulting services

5 separate consulting modules for industrial hemp companies, from farming to product development
Ecosystem building
Customized innovation management