



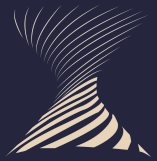
HEMP - ACT

HEMP DECORTICATING LINE

HD 1300 MODELE 00

2023/11/03

CONFIDENTIAL



HEMP DECORTICATING LINE HD1300

A UNIQUE POSITIONING

PROCESS 100% DEDICATED TO HEMP & LOCAL SECTORS

Based on 23 years of experience

Refined through multiple iterations

Requires very low investments at the agricultural stage
=> for easy access

High added value producer: long and half-long fibers
=> response to the problem of current hemp workers

Sizing measured at 1 t/h for sectors of 1000 ha
maximum

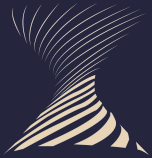
=> local logistics performance

=> limited investment, easy access

ADVANTAGES OF THE HD1300 LINE

- The only alternative technology to linen scutching and hackling process to produce long textile fibers
- a modular and adjustable line to produce the entire range of fibers and shivs
- An affordable price : 1.5/2.0 M€ * to be confirmed and regarding the different chosen options
- PRICE + ADDED VALUE = best ROI on the market
- A line that consumes 2 to 3 times less energy than its competitors

A MODULAR LINE TO BE DESIGNED FOR ANY DEMAND



MODULAR SOLUTION : HD1300 TEXTILE

TECHNICAL SPECIFICATIONS

Input

- Long retted hemp straw, dried and packed in round bales
- Textile retting requested for high grade quality

Output

- Long hemp fibres 600/1000 mm
- Medium length hemp fibres 150/400 mm
- Technical fibres 50/100 mm
- shives for building, animal bedding and mulching

Yield

- Depending on retting level and straw quality
- 1 ton of hemp straw input per hour
- 30 to 35 % of fibre with textile crop
- 50-60 % of shives

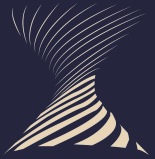
Operating means

- 2 operators per shift
- Electric power 130 kW installed / 400V 3 phase
- Building for decortication : 50 m x 10 m x 5 m high

Size of your business

- 1 ha of hemp crop produces a minimum of 5t straw/year
- 300 to 350 ha/year and per shift
- Up to 1000 ha/year when working 3 shifts





TEXTILE DECORTICATING LINE HD 1300 MODEL 00

TO SECURE AND OPTIMIZE THE DESIGN, TO TEST DIFFERENT ARCHITECTURES

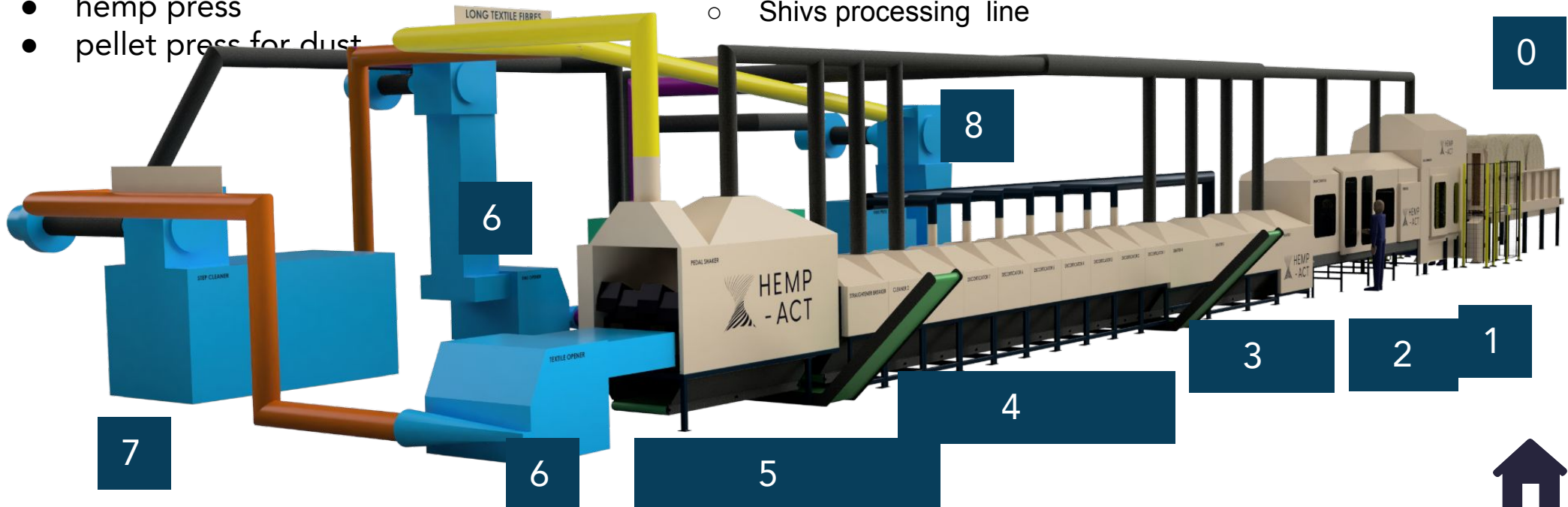
Complementary textile machines

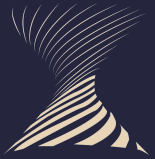
With partner manufacturers

- 6/ 2 openers customized on HEMP-ACT demand
- 7/ 1 step cleaner
- 8/ 1 fiber press
- not shown :
 - centralized suction and filtration
 - hemp press
 - pellet press for dust

Our equipment upstream of the line and decortication

- 0/ Dynamic round bale feeding rail
- 1/ Unwinder_thresher
- 2/ Conveying materials
- 3/ Stretcher-pre-shredder 4 modules
- 4/ Decortication stage = 7 modules
- 5/ Cleaning stage = 3 modules including breaker straightener + shaker
- not shown :
 - Electrical cabinet, HMI, automation, production data
 - Shivs processing line





TEXTILE DECORTICATING LINE = HD 1300 TEXTILE

FROM OUR PRE SERIES MODEL TO IN SERIES DELIVERED LINES

A line tailored to meet your specs

- To produce the whole range of fibers in order to address your targeted markets
- To transform and valorize any straws produced to their optimum
- To produce any particle size of hemp shivs
- 3 times more equipment than on the prototype line

Opportunities and offer:

1. *price of model 00 to be confirmed by the design office job : end of 2023.
2. HEMP-ACT offers up to 10 tonnes of hemp straw decortication service to launch its clients' hemp value chain or for its clients' R&D needs
3. training, knowledge and know-how transfer, project support...
4. the preserie line is a 2 years task before :
5. HEMP-ACT will deliver decortivating line in series from 2026
6. technology transfer to be established



HEMP-ACT'S PROMISE :

TO ENSURE YOU THE BEST VALORISATION OF HEMP :
shives, short fibres, long fibres

TO SUPPLY THE MARKETS WITH ANY RANGE OF FIBRES:
a renewable material of high technical quality



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