




## Production line for replacing aluminium, steel and plastic moulds with hemp fibre-reinforced composites (fibre composites)

Preparation of the finest hemp fibres and hemp fleeces

<p><b>Fine carding</b> for combing out the short fibres as <b>combs</b> from the long hemp fibres <b>and</b> at the same time for producing <b>thin fleeces</b></p>		<p>Rieter carding machine Occasion EUR 100'000</p>
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Provision of the lightweight, stable, refractory matrix from recycled PU, expanded glass (silicates, recycling).

<p><b>Re-polyol process development:</b> liquefaction of PU foam, especially mattresses, to polyol (liquid that hardens stably with properties depending on the application: elastic, soft, hard, firm, foamy, ...)</p>	<p>Cooperation with "Retour Matrasse", NL <a href="http://www.retourmatras.nl">www.retourmatras.nl</a> <a href="#">Paul Scherrer Institute EPFL / EPF Lausanne</a></p>	<p>Development project participation in "Retour Matrasse", R&amp;D contracts EUR 600,000</p>
<p><b>Purchase and storage of expanded glass</b></p>	<p>Supplier: poraver.com</p>	<p>Storage silos used EUR 50'000</p>
<p><b>Mixing plant</b></p>	<p>Share in lime/cement plant Netstal GL</p>	<p>Share in lime factory EUR 300,000</p>
<p><b>Foundry line</b> with custom-made prototypes of 3D moulds</p>		<p>Conveyor belts Mould making High-bay storage oven EUR 300,000</p>
<p><b>Rolling mill / paper / board machine</b> for flat shapes and materials</p>		<p>Paper production line (PM2) consisting of 2x web injection, wet press, 38 drum drying web, sizing plant, calender, moisture measuring station and Reinhard paper winder EUR 300,000</p>
<p><b>Workshop</b></p>		<p>Bofil Rüti EUR 1'500'000</p>
<p><b>Working capital to get started</b></p>		<p>EUR 450'000</p>
<p><b>Total capital requirement</b></p>		<p>MachineryEUR 750'000 Plant participationsEUR 900,000 Real estateEUR 1'500'000 Working capitalEUR 450'000 <b>TotalEUR 3'600'000</b></p>