D_2G

a new approach in

Athleisure Fabric development

TIANHAI ATHLEISURE SOLUTIONS

HMB Consulting Introduction

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What you see

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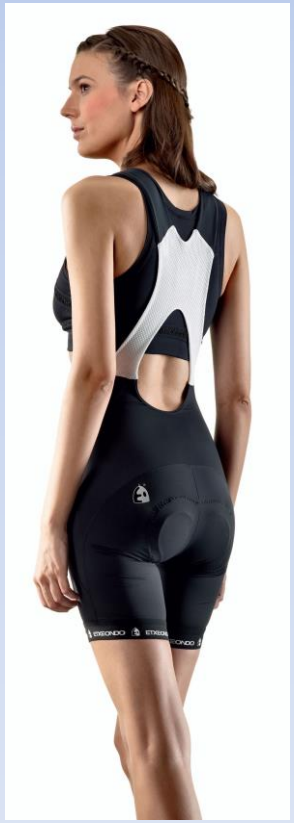
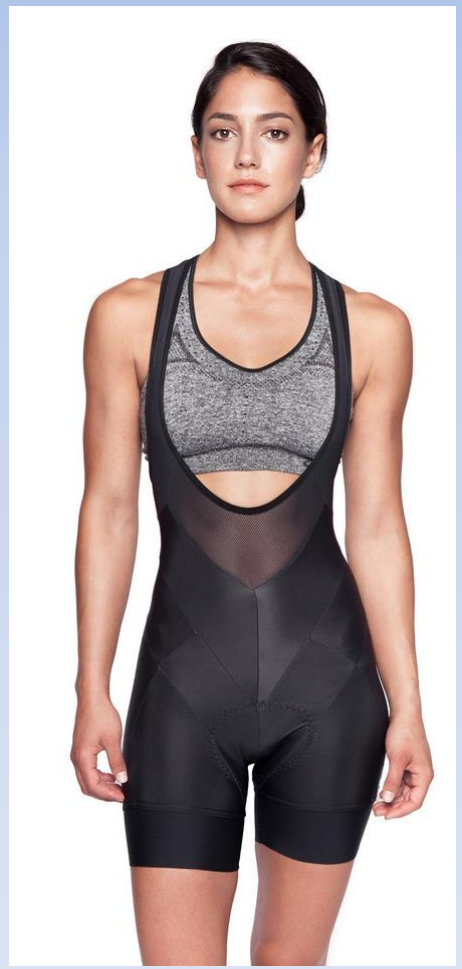
What I see





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- **FOCUS TOPIC "HYBRIDS - ENGINEERED AND COMPOSED THROUGH ALL LAYERS!"**

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Hybrids

- a thing made by combining two different elements.
- a car with a petrol engine and an electric motor, each of which can propel it.

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Can we learn from the Car Industry ?

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Importance of Strategic Partnerships

"To ***remain competitive***, firms must ***receive competitive performance advantages from their suppliers*** that match or exceed the advantages provided by the suppliers of their global competitors……."

"Firms must ***rely more on external suppliers*** to support non-core requirements. This is especially true in new product development. Firms are relying increasingly on suppliers for early design, concurrent engineering, and other product development support……."

A ***Supplier Association*** is defined as a ***mutually benefiting group of a company's most important suppliers brought together*** on a regular basis in order to achieve strategic and operational alignment through the development of awareness, education and implementation programs designed to achieve both radical and incremental improvements.

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Hybrids

- the offspring of two plants or animals of different species or varieties, such as a mule.

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The early days

Nowadays

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What if we could make Garments out of Lego ?

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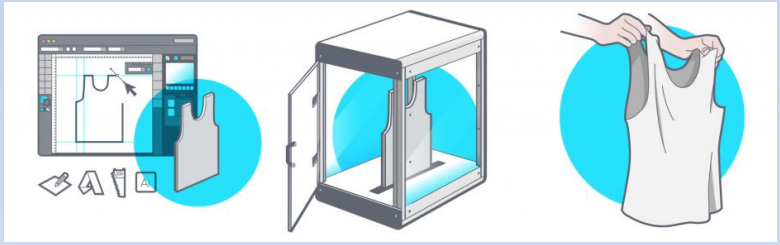
Maybe in future we can make Garments with Lego

Or more likely 3D printed



For now its still using Textile machines to make fabric first

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Explained on the basis of Lego Bricks

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The Base

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Standard Knitting Machines

Rachel Machine
RSE 4

Tricot Machine (HKS)

Circular Knitting Machine
(Single Jersey)

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Fully Fashioned Knitting Machines

Santoni
Fully Fashioned Garments

Warpknit Seamless(WKS)

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Jacquard and Lace Knitting Machines

Jacquard Circular Knitting Machine

Lace Knitting Machine

Jacquard Raschel Machine

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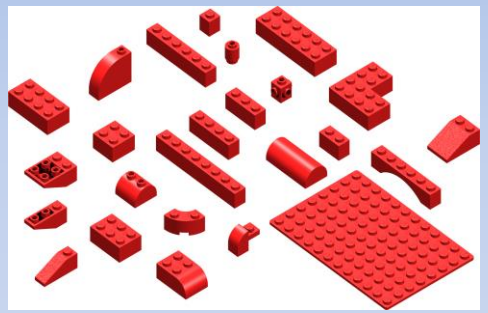
The Components



Special Knitting Constructions
Performance enhancing Yarns
Recycled Yarns
Bio Based Yarns
Performance enhancing Finishing
Sustainability Management and Accreditation

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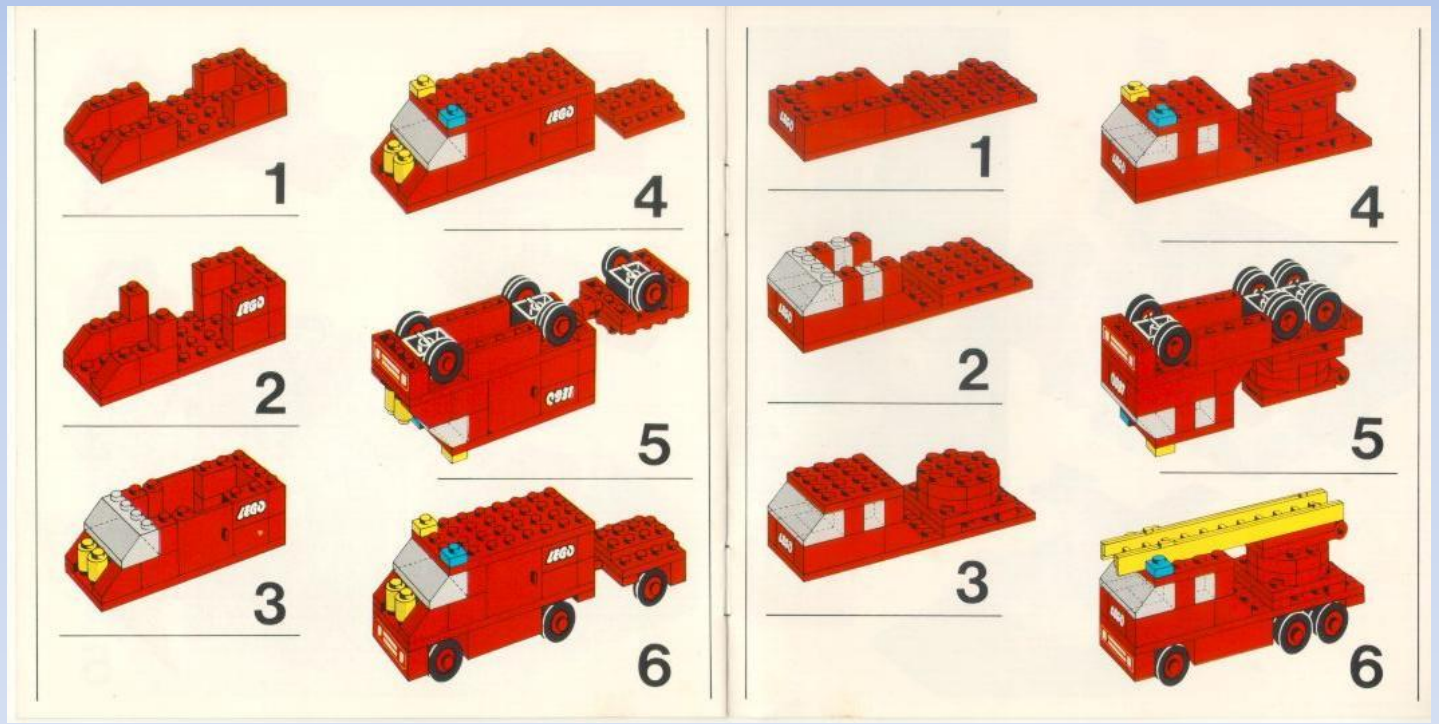
Lego construction plan



D_2G construction plan
a.k.a
Input Sheet for Textile Manufacturer

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Input Sheet for Textile Manufacturer

- No compression needed
- Yarn or Finish with cosmetic properties such as moistening or skin care
- Try some colorways wit special yarn (fluorescent or glow in the dark)
- Recycled or Bio based yarns if possible
- Garment Pattern sheet attached

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The actual Garment

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Input Sheet for Textile Manufacturer

- No compression needed
- Yarn or Finish with cosmetic properties such as moistening or skin care
- Anti See-through and/ or UV protection
- Recycled or Bio based yarns if possible
- For Leggings , add some compression zones
- Garment Pattern sheet attached

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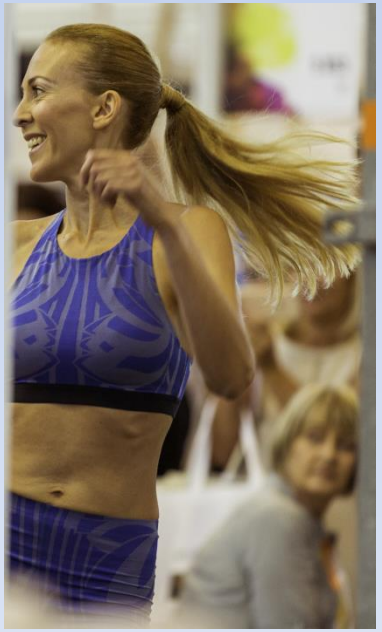
The actual Garment



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Advantages of D_2G

- Innovative Garments as not seen before
- Unique selling Propositions (USP) for Brands
- Co-branding with the special applications from Yarn and Finishing companies
- Industrialized Process of Tailoring
- Less seams
- Body Mapping
- Rigid & elastic fabrics passible
- Functional Zones (with or without Spandex)
- High productivity in fabric production

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