

Translating automotive experience and expertise to e-bike development

CHALLENGES

- Megatrends are transforming transportation. Changing demographics, escalating urbanization, concern for the environment, and increasing disposable income are all factors creating growing and sustainability-minded global mobility demand.
- Product life cycles are swift, straining design teams and their manufacturing counterparts.
- Battery and thermal management: improving range and performance, with no compromise on safety.
- E-motor and power electronics: ensuring performance and durability.
- Lightweighting is good, but components and body structures made with innovative materials must be durable and safe.

REQUIREMENTS

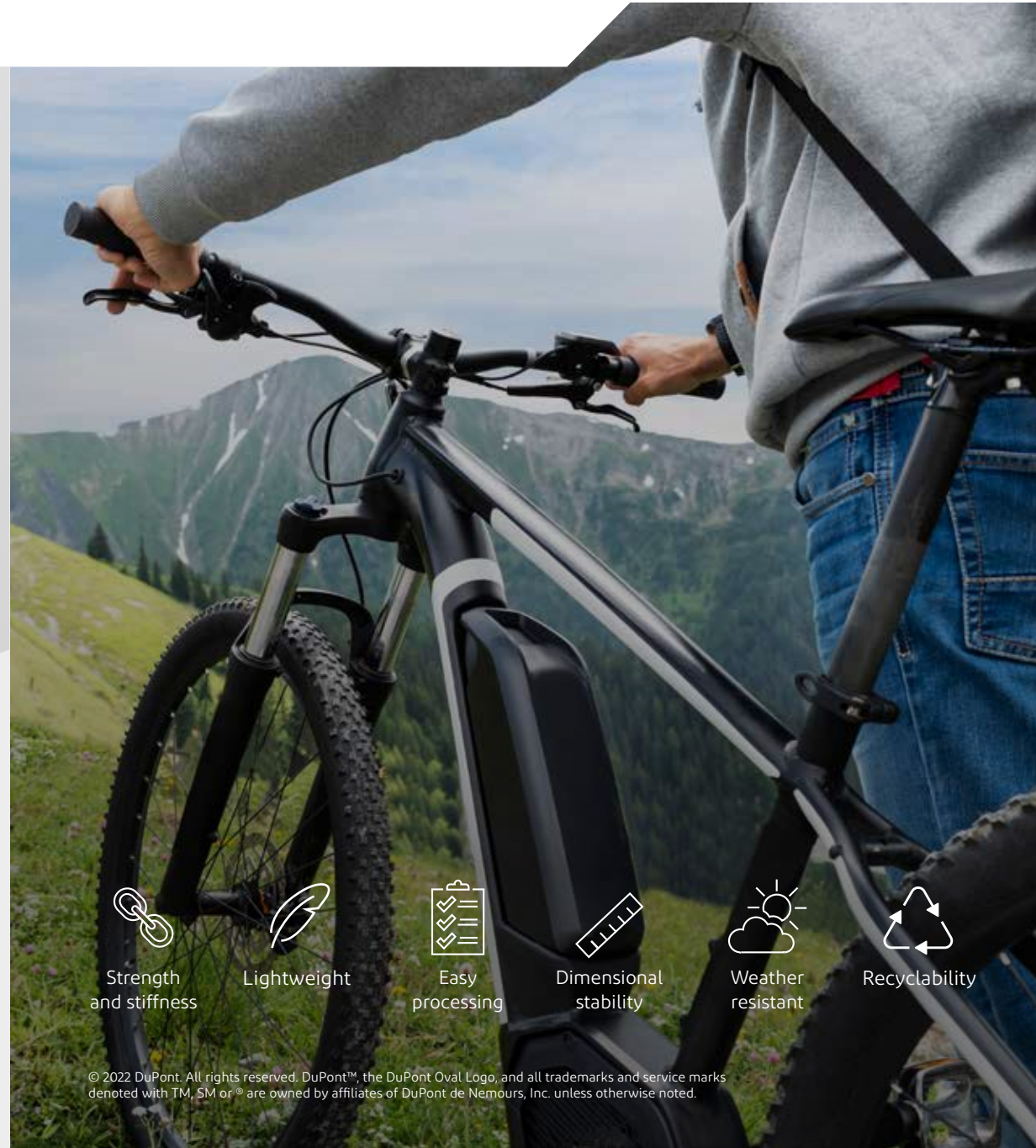
- Partner with an experienced global supplier that offers extensive regional technical support.
- Find a supplier that already is successful with EV components,

and understands how to translate that success to EV batteries and motors.

- Full material testing and plastics processing capabilities to speed projects to completion.

SOLUTIONS

- **Zytel**[®] polyamide enables designers to reduce weight, replace metal, and still offer outstanding structural support for frames, rims, forks, pedals, gears, mudguards, and more.
- **Zytel**[®] HTN is a proven solution for structural, high temperature applications in batteries and motors.
- **Hytrel**[®] provides excellent flex fatigue, wear and abrasion resistance for a range of components, including airless tires.
- Foamable **Hytrel**[®], a VOC-free alternative to chemically foamable materials, is an excellent choice for saddles and run-flat tire inserts.
- **Crastin**[®] and **Rynite**[®] offer superior flow, electrical properties & processability for complex connectors and insulators.



Strength
and stiffness



Lightweight



Easy
processing



Dimensional
stability



Weather
resistant



Recyclability