

Windpower

ENGINEERING

Tapered, modular towers, 100 m and more

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INSIDE:

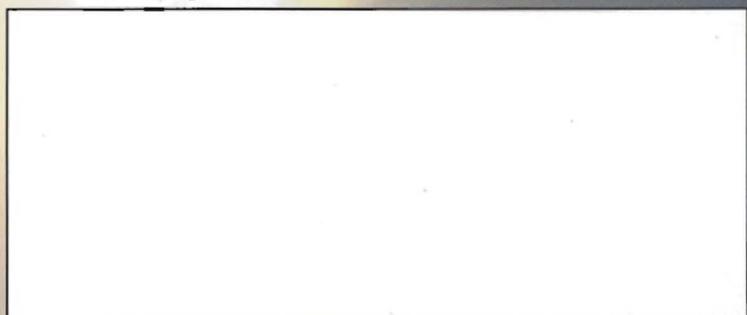
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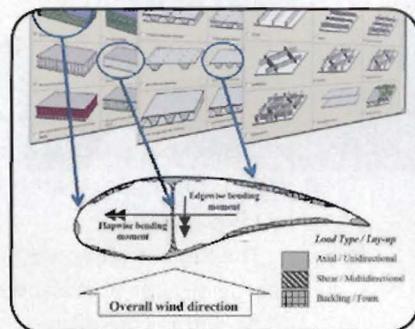
Sealed connectors for waterproof high power

SPEC Pak (Sealed Power for Environmental Connections) connector is for use wherever a rugged waterproof high power, signal ground interconnect is required. The connector shell seal, IP 67 rated, protects against dust and the effect of immersion at depths from 15 cm to 1 m. The sealed shell protects existing APP contacts and housings. Users benefit from economical total installed cost, excellent size-to-power-performance, ease of assembly, and many options for customer configurability. The product family accommodates wire ranging from #24 to #10 American wire gauge (AWG) or 0.25 to 4 mm². The position shell handles up to 25 amps fully loaded with #10 AWG, and the -position SPEC Pak shell handles up to 25 amps.

erson Power Products
ersonpower.com

Developer says 20% blade weight reduction possible

Lighter blades are one key to better turbine designs. HyperSizer Structural Sizing Software is a tool for engineers who must analyze and optimize composite wind blades. The software integrates fully with FEA, and can automatically update CAD, to rapidly design a lightest-weight structure, provide insight into design innovation, and produce the most readily manufacturable design, all in less time than previously possible. Increasing blade length, for example, increases the swept area of a rotor, thereby increasing the amount of captured energy. Larger blades, however, add significant weight to a turbine. So reducing wind-structure weights through composite materials is essential to improving overall efficiency. The software has significantly reduced weight on aerospace structures with rapid analysis and composite optimization. In fact, HyperSizer has helped aerospace users cut weight of many structures by 20%.



Collier Research Corp.
hypersizer.com

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