

KEY FACTS

X-TREMA & AIRSHIP

- X-Trema Line a twelve-strand rope con struction using Dyneema® HMPE yarn a lightweight rope that can take loads of over 1 million pounds
- ADB-3-3 airship maximum take-off weight of 8,900 lbs, 160ft long and 56.8ft high cruising speed 21.6 knots top speed 46 knots
- ADB is a 100% Brazilian company belonging to Transportes Bertolini enterprises.



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X-Trema Line takes off with Airship do Brasil

BRASIL

Airship do Brasil Indústria e Serviços Aéreos Especializados is using high performance Phillystran X-Trema Line rope in the latest development of its lighter than air (LTA) technology airship, the ADB-3-3. X-Trema Line is used within the airship's envelope to provide the structural integrity needed to attach a crew and passenger gondola and propeller engine.

The envelope features two catenaries in the form of curtains that act as structural components, distributing the gondola loads to the airship envelope. Cemented and sewn within the curtain's coated fabrics, the X-Trema Line rope runs the length of the two internal catenary curtains each supporting nine thimble connection points for steel wires attached to the six person crew and passenger gondola.

"Increasingly airships are seen as a quick and convenient way to advertise and transport goods across Brazil, independent of traditional transport infrastructure or airports," says Guilherme Leão, Aeronautical Engineer, Airship do Brasil Indústria e Serviços Aéreos Especializados. "X-Trema Line is a strong, reliable and long lasting element in ensuring the structural integrity of the gondola support structures."





