



Perennial Problems

Commercial Airlines have urgent need to

REDUCE WEIGHT

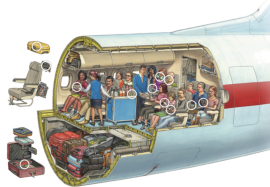
- Weight of wires: ~ 7,400 kg/aircraft



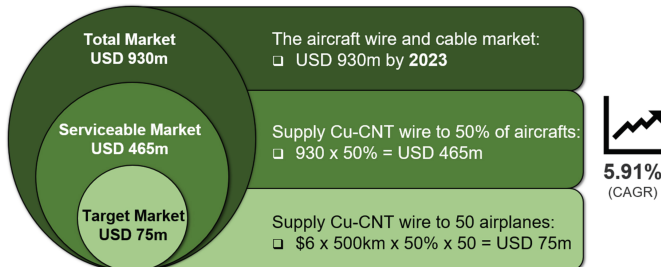
Customers:

End customers: Commercial Airlines

Direct customers: Aircraft Manufacturers



Market Size



Efficient, Sustainable & Weight-saving Solution

Unique Selling Points

Copper-CNT wire

- ☐ **30% Lighter**
(0.59g/cm³)
- ☐ **300% Higher Current Capacity**
(247,000 A/cm²)
- ☐ **150% Strength**
(0.54 GPa)
(Compare to regular copper conductors)

Value Proposition

- ☐ **Aircraft Weight-saving**

Also:

- ☐ ↓ Broken-wire
- ☐ ↓ Corrosion Failure

Design Patent

- ☐ **Filed IP No. 2018141**
- ☐ **AWG 18 Standard**

Business Model: Build-to-Order

Key Resources

- ☐ Tech & IP
- ☐ Manpower
- ☐ Regulatory Approval

Key Partners

- ☐ Regulatory Entities
- ☐ Cable Manufacturers
- ☐ Raw Material Suppliers



Channels

- ☐ B2B
- ☐ Aerospace
- ☐ Conventions

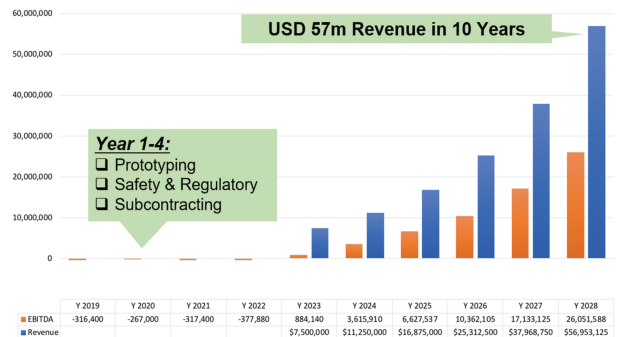
Build-to-Order

- ☐ **Selling Price: USD 6/m**
- ☐ **Unit Margin: 64%**

Maintenance, Repair & Overhaul (MRO)

Financials

Net income & Revenue (2019-2028)



Competitor Analysis

	Products and Material-Base	Light-weight (g/cm ³)	Excellent Ampacity (A/cm ²)	Ultimate Tensile Strength (GPa)	Corrosion Resistance (Aviation Standard)	Durability (Aviation Standard)
WIRE FUTURUS	CNT-Cu Composite	6-7	247k	0.54	☒	☒
CARLISLE	Ni-Cu Composite Al-Cu Composite	8.0 - 9.2	65k - 85k	0.2 - 0.3	☒	☒
ZEUS	Pure Cu Ag-Cu Composite Sn-Cu Composite Ag-Cu Composite	7.8 - 8.5	63k - 77k	0.1 - 0.2	☒	☒
STRAND	Titanium Brass Kevlar	8.2 - 11.4	57k - 58k	0.2 - 0.4	☒	☒
AERO ASSEMBLIES INC.	Stainless Steel Galvanised Wires	14.6 - 15.4	38k - 44k	0.3 - 0.4	☒	☒

Future Applications

- ☐ **Military Aviation**
- ☐ **Satellite**
- ☐ **Unmanned Aerial Vehicle (UAV)**

Development Plan



2019
Phase 1

- ☐ Prototyping
- ☐ Subcontracting to Cable Manufacturers
- ☐ Regulatory Approval
- ☐ Sales & Marketing



2023
Phase 2

- ☐ Revenue Generation
- ☐ Product Refinement & Expansion
- ☐ Maintenance, Repair & Overhaul (MRO)



2028
Phase 3

- ☐ Global & Regional Expansion
- ☐ Exploring Other Non-beachhead Markets & Industries