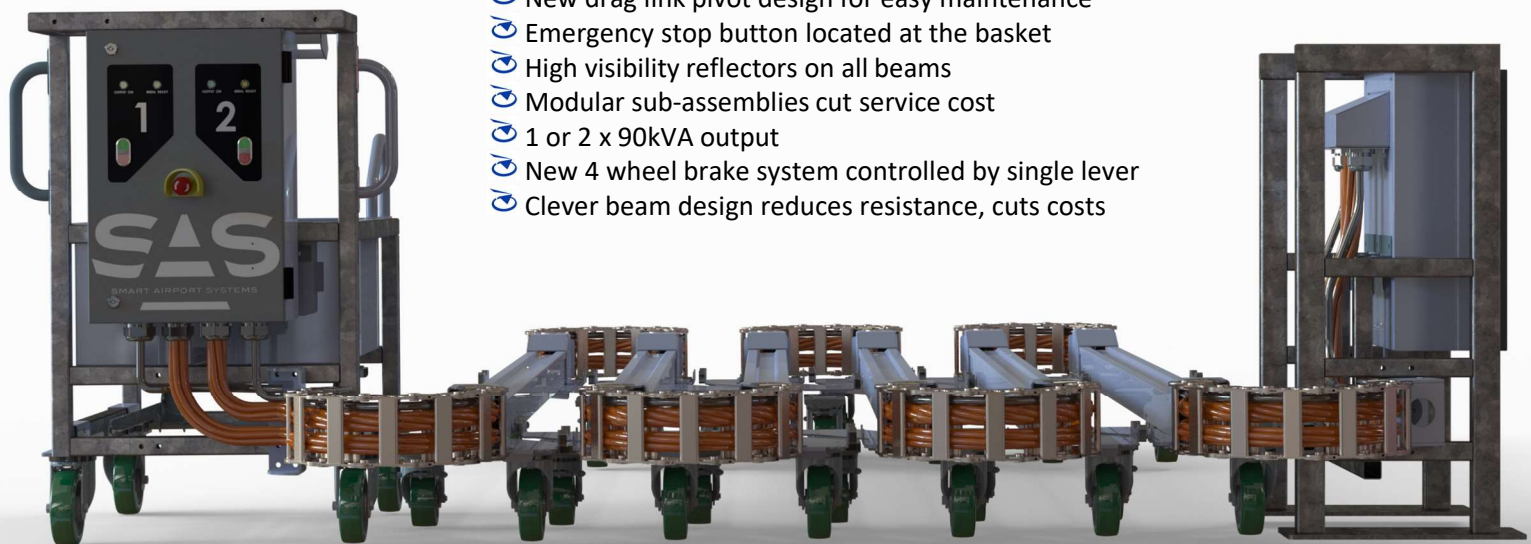


Sidewinder 2

Airport Ground Power Cable Carrier System

- ⌚ Stowed footprint dimensions now reduced
- ⌚ Large low resistance wheels for effortless deployment
- ⌚ New drag link pivot design for easy maintenance
- ⌚ Emergency stop button located at the basket
- ⌚ High visibility reflectors on all beams
- ⌚ Modular sub-assemblies cut service cost
- ⌚ 1 or 2 x 90kVA output
- ⌚ New 4 wheel brake system controlled by single lever
- ⌚ Clever beam design reduces resistance, cuts costs



Description

The second generation of this unique ground power transfer system, incorporates improvements learnt from more than 150 installations at some of the worlds busiest airports.

The costs to airports and airlines in replacing GPU cables and plugs caused through abrasion damage and bad handling has increased significantly over recent years as aircraft sensitivity demands the use of very expensive balanced multicore twisted cables.

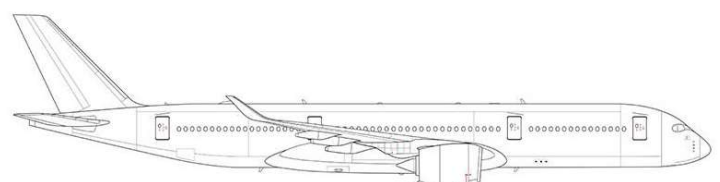
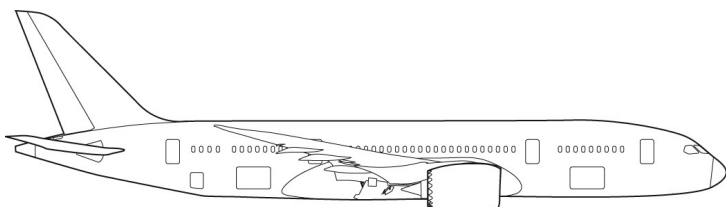
Sidewinder 2 eliminates cable damage while deploying power to the aircraft incredibly fast – in LESS than 15 seconds. Saving minutes in APU fuel burn, and with equal reductions in CO₂ emissions, the savings, when multiplied annually, are huge.

The SAS Sidewinder 2 system gives airports a fast, simple and reliable power transfer system that protects plugs and cables, is easily serviced from the ground and is backed by SAS’s unique five-year warranty*.

Compared with other types of ground power transfer systems, Sidewinder extends cable life and has a very low through life cost. It is easy to maintain, easy to install and makes a significant contribution to reducing CO₂ emissions.

Airlines and airports are now installing Sidewinder as apart of their comprehensive strategy to reduce their CO₂ emissions.

Typical aircraft: Airbus A380, A350, A340, A330, A320, A319, A220. Boeing B787, B777, B747, B737, B767. Any 400Hz aircraft known.



* Subject to terms and conditions.

Specifications

GENERAL

Deployment length	12 metre, 18m, 24m (39ft, 59ft, 79ft) – other lengths available
Overall stowed footprint	
12m (3 beam)	W: 3.47m x D: 2.32m (11.4ft x 7.6ft)
18m (5 beam)	W: 3.47m x D: 2.93m (11.4ft x 9.6ft)
24m (7 beam)	W: 3.47m x D: 3.45m (11.4ft x 11.3ft)
Installation bias	Left or right hand extension
Brake system	Foot operated brake actions 4 wheels at the mobile end
Mobile control box interface	Output On/Off buttons, LEDs for 400Hz Ready and Output On
Cabling	7 cores x 35sqmm back twisted (per output)
Output cable	6.5m (21ft) – 4 cores x 70sqmm + signal cables
Max working radius	143 degrees
Basket dimensions	W: 650mm x D: 890mm x H: 685mm (25.6in x 35in x 27in)
Electrical boxes	Stainless steel, IP65 rated
Beam dimensions	L: 2400mm x W: 107mm x H: 92mm (94.4in x 4.2in x 3.6in)
Wheel diameter	160mm (6.3in)
Drag link chain	Tensile steel links and pins with alloy vertical post modules
Weight	800kg – 1763lbs (dual output, 24m version)



Sidewinder is compatible with most 400Hz GPUs, including SAS's PV90 fixed 90kVA 400Hz GPU

STANDARDS

EN 12312-20	Aircraft ground support equipment. Specific requirements. Electrical ground power units
EN 1915 – 1, 2, 3	Aircraft ground support equipment. General requirements.

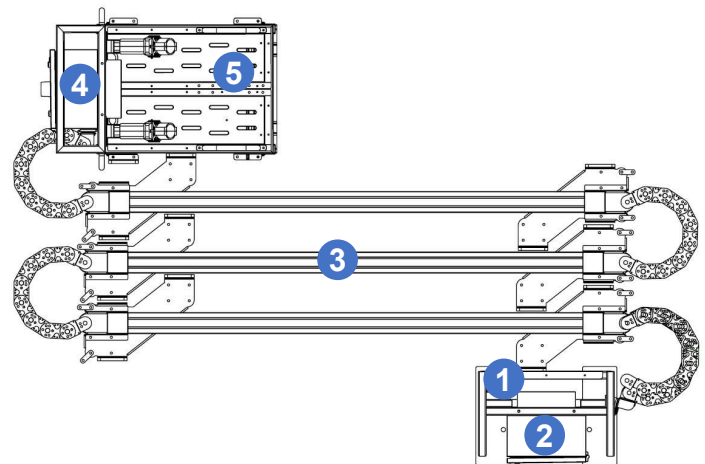
UNIQUE MODULAR DESIGN

For rapid swap-out and upgrading

Sidewinder's unique design enables airports to modify an installed unit to accommodate stand upgrades or aircraft changes.

SIDEWINDER COMPRISES THE FOLLOWING MODULES

- 1. Fixed end frame with distribution box**
- 2. Distribution box** design for 1 or 2 x 90kVA cabling
- 3. Chain/beam modules** available in increments of 3m (10ft)
Minimum length: 12m – 39ft (3 beams)
Option: Length increases in increments of 3m to maximum extension of 9 beams (30m – 98.5ft)
- 4. Mobile end control box** with terminals options for 1 or 2 x 90kVA outputs. Optional connection to 28VDC module*
- 5. Quick detachable cable basket:**
Standard 2 compartments, each stows up to 7m of cable with stainless steel hoister



*For applications where 28VDC is required, due to the voltage drop at high amperages, a separate DC module (like the TRU-28 unit) connected to the AC 400Hz output at the basket end is recommended.