

Press enquiries

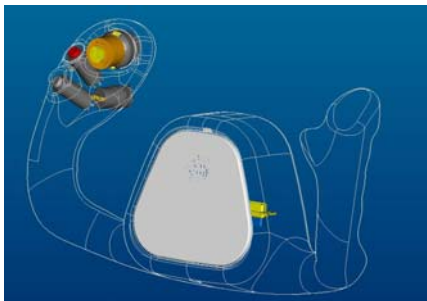
Pierre LAMARCA
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www.crouzet.com



Crouzet takes off in Ukraine on the Antonov An-148



A strong partnership with Antonov

Since 2005 Crouzet has been working in close partnership with **Antonov** in order to support the An-148 development.

Crouzet is especially proud to be a part of the success of such a famous aerospace company as **Antonov**, through 3 different product ranges:

- Cockpit Equipment: Control Wheels,
- Detection: proximity switches for landing gear and flight controls,
- Electrical Protection: standard circuit breakers & arc fault circuit breakers for the electrical distribution network.

The An-148 is right on the leading edge of the aviation industry using all the latest technologies.

Crouzet has been able to gain a really good understanding of the **Antonov** engineering needs and has shared its know-how.

Flight Control System

The philosophy of this new Regional Jet combining safety, comfort and modernity has led **Antonov** to call upon Crouzet to develop a **new Control Wheel**.

The An-148 is equipped with a Fly by Wire system and the Crouzet Control Wheels provide electrical functions that are input directly to the system.

Teamwork, with designers, engineers and pilots working together, was the cornerstone for bringing the design of the new control wheel - which is both ergonomic and contemporary - to a successful conclusion.

It is particularly noteworthy that on this occasion, following the recommendations of the aircraft certification authorities, Crouzet has developed a new flight trim control.

The quality of the Crouzet control wheels enables this new Regional Jet to meet the finish requirements for the latest generation of biz-jets.

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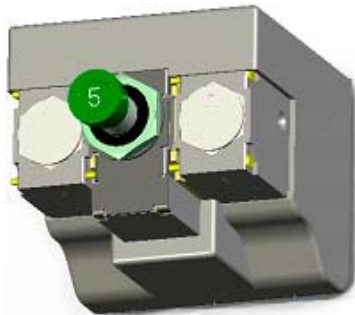
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Antonov chooses Crouzet for the An-148's electric protection

Electrical Network

The An-148 is the **first evercommercial aircraft with Power-by-Wire flight control actuators** to take to the air.

The use of Power-by-Wire technology means that the availability of the electrical network has become more critical and in anticipation of new flight safety challenges, **Crouzet provides Circuit Breakers with Arc Fault detection** that are the latest development in terms of electrical protection.

The An-148 is one of the first aircraft to use this new generation of electromechanical breakers.

Moreover Crouzet provides Proximity Switches for such applications as landing gear, speed brakes and flaps.

The **close partnership between Crouzet and Antonov** enables the two companies to propose the best solution for achieving the goal of the An-148 program: **modernity and safety**.

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Crouzet is aiming high in the aerospace market

Executive summary

Crouzet Automatismes has been producing **High Performance Aerospace components** for over forty years and has secured a leading role in three Product lines dedicated to aerospace applications:

- **Detection and Sensing:** Limit switches, Proximity switches 1 & 2 pieces
- **Electrical Protection and Distribution:** Circuit breakers & Circuit breaker panels, SSPCs
- **Cockpit Equipment:** Control Wheels, Helicopter grips & buttons

Today Crouzet's components can be found on most major fixed wing programs across the world, including Europe, North & South America & the Far East.

To ensure the necessary quality all Crouzet High Performance components are manufactured at our facility in Valence, France, which is fully qualified to EN9100, ISO 9001, ISO 14001 (all materials & processes are environmentally friendly), EASA part 21/G and part 145.

About Custom Sensors & Technologies (CST)

Headquartered in Moorpark, California, **Custom Sensors & Technologies (CST)** is a business unit of Schneider Electric. CST was created by merging **Kavlico**, **Crouzet**, **Crydom** and former divisions of **BEI Technologies**. CST provides sensors, controls and actuation products to the industrial, transportation, military and aerospace markets.

www.cst.schneider-electric.com

About Schneider Electric

Schneider Electric is the world's power and control specialist.

Through its world-class brands, Merlin Gerin, Square D and Telemecanique, Schneider Electric anticipates and satisfies its customers' requirements in the residential, building, industry, energy and infrastructure markets. With 105,000 employees and operations in 190 countries, Schneider Electric generated sales of €13.7 billion in 2006 through 15,000 sales outlets.

Schneider Electric: Giving the best of the New Electric World to everyone, everywhere, at any time.

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CST
CUSTOM SENSORS & TECHNOLOGIES
Aerospace

Products for Aircraft
The partner to get your program off the ground

- **Detection and Sensing**
Limit switches,
Proximity switches & sensors
- **Electrical Protection and Distribution**
Circuit breakers
& Panels, RCCBs, SSPCs
- **Cockpit Equipment**
Control wheels,
Helicopter grips, Buttons

For more than 40 years Crouzet Automatismes has anticipated the technical requirements for helicopters, civil and military aircrafts.

Crouzet offers complete competence and expertise in the areas of electromechanical and electronic technologies.

Our specialists participate actively in the standardisation of components and can provide customized products dedicated to your application.

www.crouzet.com

Visit us at Le Bourget
Paris Air Show 2007
Hall 4 - Stand A13a

a company of
Schneider
Electric



- Detection and Sensing (DS)
- Electrical Protection (EP)
- Cockpit Equipment (CE)



Customer References

Commercial Aircraft		DS	EP	CE
AIRBUS	A300	■	■	
	A310	■	■	
	A318 / A319	■	■	
	A320 / A321	■	■	
	A330	■	■	
	A340	■	■	
	A340 COMBI	■	■	
	A340 500/600	■	■	
ANTONOV	An-148	■	■	■
	A380	■	■	
ATR	42 / 72	■	■	
AVIC	ARJ 21	■	■	
BAE	146		■	
BOEING	717	■	■	
BOEING	747-8	■	■	
BOEING	787	■	■	
BOMBARDIER	GLOBAL EXPRESS / GLOBAL 5000	■	■	■
	CRJ 700	■	■	
	CHALLENGER 300	■	■	■
	CHALLENGER 601	■	■	
	LEARJET 60 / BD 100	■	■	
	LEARJET 45	■	■	
CASA	C212	■	■	
CESSNA	SOVEREIGN	■	■	
DASSAULT	FALCON 50	■	■	
	FALCON 900 / 900 EX / 2000 / 2000 EX	■	■	
	FALCON 7X	■	■	■
DORNIER	DO 228 / 328	■	■	
	DO 728	■	■	
	D-JET	■	■	■
DIAMOND AIRCRAFT	D-JET	■	■	■
ECLIPSE	ECLIPSE 500	■	■	
EMBRAER	ERJ 135 / 145	■	■	
	ERJ 170	■	■	
FOKKER	50 / 70 / 100	■	■	
GD GULFSTREAM	G 150	■	■	
	G 450	■	■	
	G 200	■	■	
GROB	SPN	■	■	■
HAWKER HORIZON	HAWKER HORIZON	■	■	■
NAL Helicopters	SARAS		■	■
				■
AGUSTA-WESTLAND	A109P			■
	A119			■
	A129	■		■
	AB139		■	■
	EH101		■	■
BELL	CH146			■
	412			■
	427			■
	430			■
DENEL	Roovalk			■
EUROCOPTER	SUPER PUMA AS332 / AS225		■	■
	COUGAR AS532 / EC725		■	■
	GAZELLE		■	■
	ECUREUIL AS 350 / AS 355 / EC130		■	■
	FENNEC AS550 / AS555		■	■
	PANTHER AS565		■	■
	EC120 /135/145/155/165/365/635		■	■
	NH 90		■	■
NH 90 Marine		■	■	
TIGER		■		■
HAL	ALH		■	■
	CHEETAH		■	■
Military Aircraft				
TORNADO	TORNADO	■		
DASSAULT	RAFALE / MIRAGE	■	■	
RAYTHEON	JPATS	■		
SAAB	GRIPEN			■
EUROFIGHTER	EFA	■		
HINDUSTAN	LCA			■
AIRBUS	A400M	■	■	■
KAI	T50	■		■
SUKHOI	SU 35	■		■
BAE	NIMROD	■		
CASA	CN235	■		