

WE ARE **PILOT CONTROL INTERFACES**

— **AEROSPACE**



Human-Machine Engineering Center of Excellence

Our Pilot Control Interfaces feature proven tactile buttons used across airplanes, helicopters, and eVTOL platforms.

Our design signature and aesthetics are tailored to each customer's requirements.

Our systems engineering team delivers a force-feel design validated by pilots and developed in accordance with safety and certification standards.

50+ years' experience

Compliant with:
C525-14CFR25, C523-14CFR23,
SCVTOL-01, C527, C529

60+ active programs

Pilot Control Interfaces

PILOT CONTROL INTERFACES

Side Stick Controllers



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Side-stick controllers with redundant sensors, customizable grips, artificial feel, AP-lock, and shaker, built with long-life components engineered for safety, performance, and high MTBUR.

Rudder Brake Pedals



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Rudder Brake Pedals with redundant sensors and artificial force-feel for rudder, steering, and brake control, using long-life components engineered for safety, performance, and high MTBUR. Electrical stature adjustment does not affect sensor settings or force-feel.

Throttle Control Levers



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Throttle systems with redundant FADEC and avionics sensors, configurable detents, friction and reverse levers, built with long-life components for accurate thrust control. Lever design is adapted to each aircraft model.

Control Levers



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Control Levers include flaps, slats, spoiler, speed-brake, and steering levers, built with long-life components engineered for safety, performance, and high MTBUR.

PILOT FORCE-FEEL & MONITORING

Electrical Dampers



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Contactless damping with configurable torque-vs-speed laws provides an artificial feel for each application. It includes a mechanical long-life fuse to mitigate jamming.

Position Transducer Units



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Independent, redundant, and dissimilar position-transducer units for pilot or surface monitoring, using flight-proven RVDTs, resolvers, and potentiometers.

Force Transducer Units



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Modular strain-gauge force sensing with sealed electronics, a redundant load path, programmable FPGA functions, and ARINC 429 interfaces.

PILOT TACTILE INTERFACES

Control Wheels



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Control wheels in aluminum, plastic, or composite with customized finishing, single or dual connectors, shaker, Hand-ON/OFF, and hand or thumb rests for tailored ergonomics.

Control Grips



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Airplane grips and Helicopter cyclic & collective grips in aluminum, plastic, or composite, with single or dual load paths, shaker, analog or digital interfaces, and in-house tactile switches selected for command requirements, pilot ergonomics, and functional safety.

Buttons



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Aerospace-grade HMI buttons with calibrated tactile force, multiple head shapes/colors, single-pole to 4-pole configurations, multi-way trim, triggers, joysticks, contactless options, and QuickFix/QuickConnect.

Trim Control Panel



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Control panel using Crouzet HMI buttons with calibrated tactile force, integrating multi-way, trigger, or rocker options, single-pole to 4-pole configurations, and designed as an LRU for easy cockpit installation.

SERVICES

MRO



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We provide comprehensive repair, overhaul, and refurbishing services.

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We facilitate spare parts availability worldwide 24/7.

AMERICAS
CANADA

Tel.: +1 (855) 929-5465
 americas.custserv@crouzet.com

MEXICO

Tel.: +1 (855) 929-5465
 americas.custserv@crouzet.com

USA

Tel.: +1 (855) 929-5465
 americas.custserv@crouzet.com

EUROPE / MIDDLE EAST / AFRICA
BELGIUM

Tel.: +32 (0) 2 620 06 05
 Fax: +32 (0) 2 461 00 23
 klantenservice@crouzet.com

FRANCE

Tel.: +33 (0) 475 802 101
 Fax: +33 (0) 475 828 900
 relationclient@crouzet.com

GERMANY / AUSTRIA

Tel.: +49 (0) 2103/9385930
 Fax: +49 (0) 2103/980-222
 kundenservice@crouzet.com

ITALY

Tel.: +39 (02) 38 594 099
 Fax: +39 (02) 82 952 104
 assistenzaclienti@crouzet.com

MOROCCO

Tel.: +212 5 20 48 03 40
 sales.mena@crouzet.com

SPAIN / PORTUGAL

Tel.: +34 (91) 215 80 95
 Fax: +34 (93) 2 20 02 05
 atencionalcliente@crouzet.com

SWITZERLAND

Tel.: +41 (0) 225 67 57 90
 Fax: +41 (0) 565 88 02 75
 kundenservice@crouzet.com

THE NETHERLANDS

Tel.: +31 (0) 20-654 52 20
 klantenservice@crouzet.com

UNITED KINGDOM

Tel.: +44 (0) 2076 600 025
 customer.relation@crouzet.com

ASIA / PACIFIC
CHINA

Tel.: +86 (752) 5303 200
 china@crouzet.com

INDIA

Tel.: +91 (80) 6966 3600
 india@crouzet.com

SOUTH KOREA

Tel.: +82 (2) 2679 8312
 korea@crouzet.com

SOUTH ASIA PACIFIC

Tel.: +86 (752) 5303 200
 eap@crouzet.com

CONTACT US ON CROUZET.COM

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