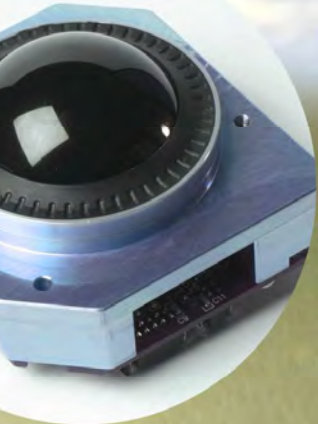


AMETEK®

TRAXSYS INPUT PRODUCTS



Introducing...

Traxsys Input Products

Traxsys Input Products has established an enviable reputation in the design and manufacture of high quality Cursor Control Devices (CCDs) for the aerospace market.

Our products offer an intuitive, comfortable way of interacting with the latest Primary Flight Displays (PFDs) and avionics equipment, allowing pilots to seamlessly select active displays, use drop down menus, zoom, scroll and pan. All this and more can be achieved via an ergonomic, aerospace-approved device designed to reduce pilot workload.



As new aircraft are developed or existing are retro-fitted with 'glass cockpits', CCDs are replacing the traditional integrated switch panel and button pressing keyboards to ease interfacing.

With 25 years of expertise in computer interface products and experience within the aerospace sector, Traxsys Input Products is uniquely qualified to meet the challenges of the aviation industry. Our CCDs are currently in use on a variety of aircraft (fixed wing and rotorcraft) for both military and civilian applications.

Similar products are also available for simulation purposes, as well as for Air Traffic Control (ATC) applications where high quality and reliability are mandatory.

Other key markets include:

- ⊕ Medical
- ⊕ Industrial
- ⊕ Marine
- ⊕ Educational
- ⊕ Assistive Technology



Aerospace Products

Trackball Modules

Base trackball modules utilise optical technologies and are designed to meet the most arduous operational and environmental demands of the aerospace sector. Modules are available for direct incorporation into your avionics assembly.



Force Sticks

Where special ergonomic considerations or limited space applies, Traxsys Input Products can provide force-operated joysticks (stiff sticks) configured to give infinitely variable output with effectively no moving parts. Signal conditioning and amplifier cards are available with a variety of output options.



Track Ball Cursor Control Devices (CCDs)

A step up from the Trackball Module a typical CCD unit combines a number of features in a single device. CCDs are designed to be mounted directly in to your cockpit centre console. The CCD device provides the pilot with a highly intuitive device for directing and querying a variety of avionics functions.

Touch Pad Cursor Control Devices (CCDs)

Where space and application demand, alternative input devices are available to provide an optimised, ergonomic solution.



Traxsys Onboard

Fixed Wing

✦ **Airbus**

A380
A350
A400M

✦ **Antonov**
AN-148

✦ **Tupolev**
TU-204

✦ **Dassault**
900EX
2000
2000LX
F7X

✦ **Cessna**
Sovereign

Rotary Wing

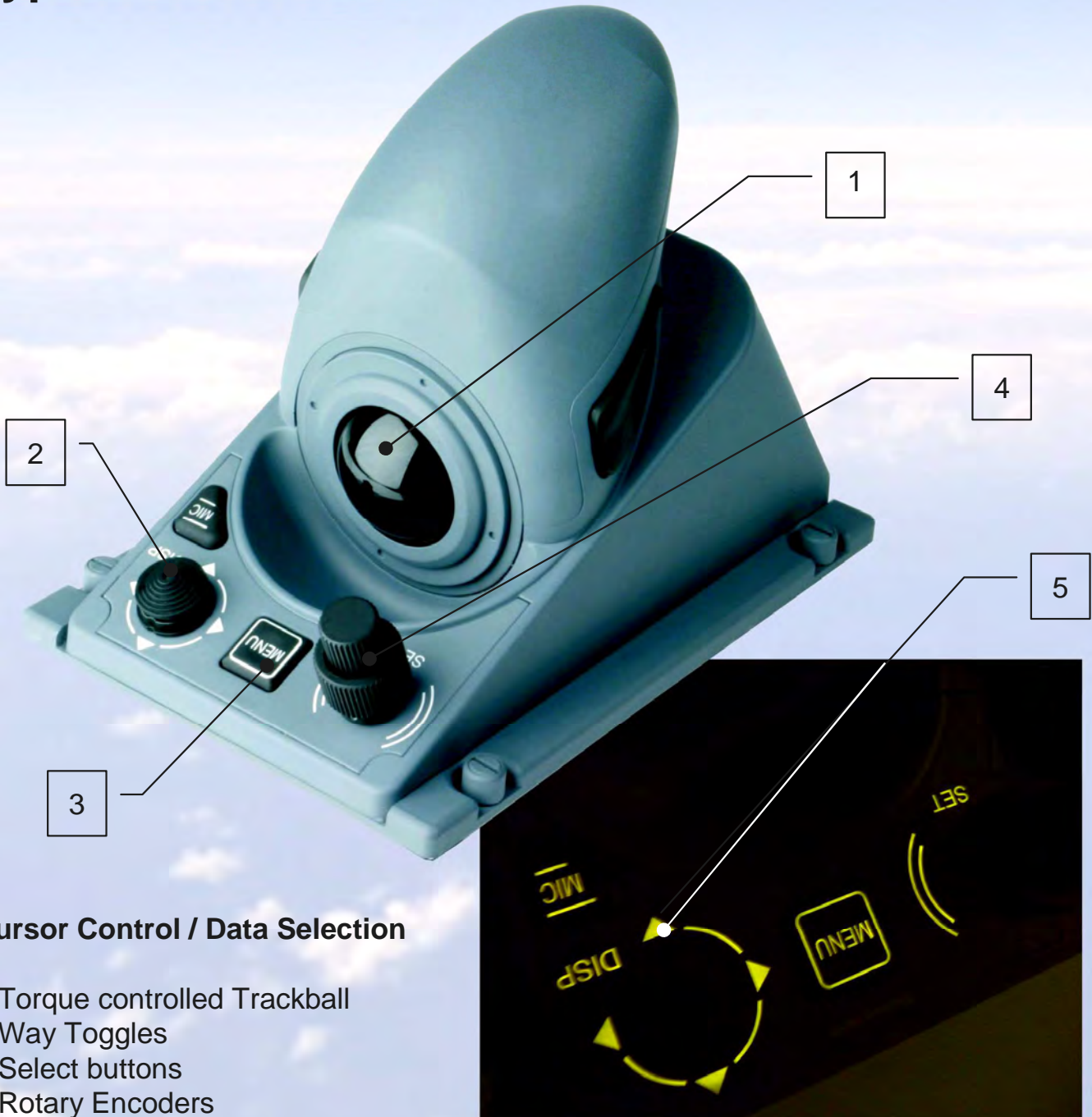
✦ **Agusta Westland**
AW149
AW101 Merlin
AW159 Future Lynx

✦ **Sikorsky**
CH-148
S-76

✦ **Lockheed Martin**
MH-60R
MH-60S



Typical Features



Cursor Control / Data Selection

1. Torque controlled Trackball
2. Way Toggles
3. Select buttons
4. Rotary Encoders
5. Illuminated light plates

System Protocols & Interface

- ⊕ Arinc 825 (Canbus)
- ⊕ Arinc 429
- ⊕ RS 422
- ⊕ RS 232
- ⊕ Quadrature
- ⊕ USB / PS2

Additional Features / Options

- ⊕ Ergonomically designed housing
- ⊕ Left & Right hand-side position switching
- ⊕ Available in colors to match your cockpit
- ⊕ Dzus Plate installation.
- ⊕ Force Stick
- ⊕ Touch Pad

Design & Development

As part of AMETEK, Traxsys Input Products is able to offer the service of experienced and dedicated design engineers to develop solutions suitable for your individual needs. Whatever your input requirements we are capable of providing robust solutions supported by more than twenty years experience.

⊕ **Team Core Competences:**

Systems Engineers
Electronics Engineers
EMC Engineers
Mechanical Engineers
Project Managers
Manufacturing / Process Engineers
Tooling Engineers
Technicians

⊕ **Full Qualification on products:**

Environmental

Humidity
Salt Fog
Rain
Chemical Resistance
Sand and Dust
Temperature

Airworthiness

Altitude
Vibration
Crash Safety
Explosion Proofness
EMC

⊕ **In-house facilities:**

3D CAD
FEA - Static / Dynamic / Thermal / Modal
Testing - IP / EMC / Vibration / Thermal

⊕ **Design and Development with extensive experience to the following standards:**

DO-160
DO-254
DO-170
MIL-STD 461 (EMC)
MIL-HDBK 454 (Gen requirements for electronic equipment)
MIL-STD 810 (Environmental)
MIL-STD 1472 (Human Engineering)
DEF-STAN 59-41 (EMC)
DEF-STAN 0035 (Environmental)
DEF-STAN 00970 (Design & Airworthiness)

⊕ **Design Process Tools:**

Follow a stage gated NPI process
Design for Manufacture / Assembly
FMEA / FMECA
MTBF Analysis
Risk Analysis
Tolerance Analysis
Tool / Jig Design
Custom Test Equipment Design
Life Testing
Design Verification Testing.
Ergonomic Assessment

⊕ **Materials / Processes:**

Injection Molding
Machined components
Castings
Composites
Coatings

Group Members

AMETEK Aerospace & Defense is a leading manufacturer of highly engineered and cost effective engine sensor suites, aircraft data management systems, cooling and ventilating systems, environmental control systems, and a variety of sub-assemblies to military and aerospace customers.

The following companies form the group. Contact details for each are available on the website.



Wichita, KS



Costa Mesa, CA



Wilmington, MA



Woodstock, NY



Garden City, NY



Penge & Andover, UK



Sunbury, UK



Penge & Andover, UK



Power & Data Systems

Binghampton, NY



Sensors & Fluid Management Systems

Wilmington, MA

Total Air Probe

Wilmington, MA

Aircontrol

Sunbury, UK

Turbo Mass

Wilmington, MA

Contact Us

If you would like to know more about our products please, contact our Sales department which will be pleased to assist you further.

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ISO9001:2008 Design, Manufacture, Service and Repair
Certificate number LRQ 0912120

AS9100 Rev C Design, Manufacture, Service and Repair
Certificate number LRQ 0912120