

SONCEBOZ
from mind to motion

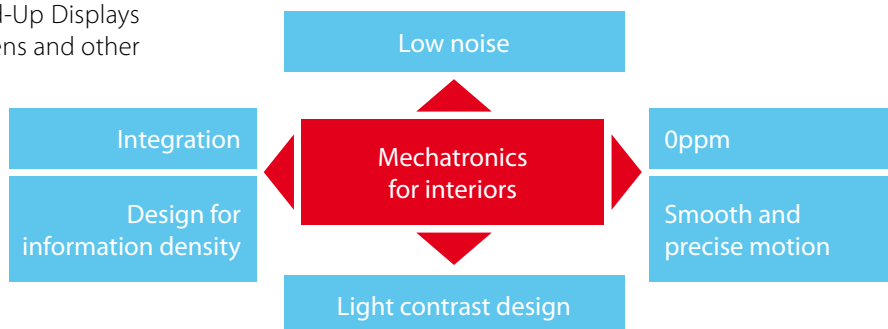


Motion systems
for challenging **cockpit** applications

Challenges in vehicle cockpit

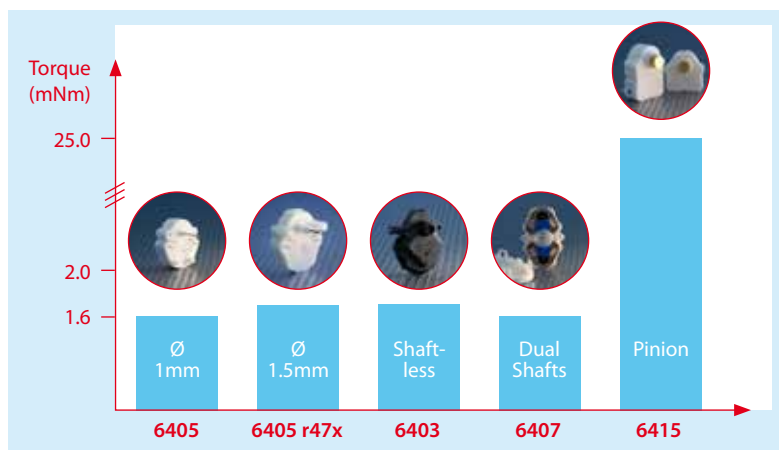
Vehicle cockpits are fitted with an increasing number of applications that require challenging movements, such as instrument cluster pointers, Head-Up Displays (HUD), mirrors, vent grilles, movable screens and other components.

The automotive world is evolving toward interior comfort, connectivity, and autonomous vehicles. These upcoming applications will obviously generate new needs for electric actuators and mechatronic systems.



Our solutions

Stepper motors for Instrument Clusters



Solderless SMD contacts



- Suppression of selective soldering process and optimization of logistics flow
- Process and system cost savings
- SMD Contacts delivered on tape & reels compatible with standard SMD pick & place equipment

Motion systems for cockpit

Linear and rotary motion concepts for cockpit movements such as:

- HUD
- Fragrance diffuser
- Displays
- Mirrors
- Vent grilles
- etc...



Rotary stepper motor



Linear actuator



Smart LIN PWM motor

Why Sonceboz?

A strong heart for a robust motor



- Recognized benchmark technology
- Two-phase stepper motor technology with 90° phase-shift and a rotor with five pole pairs
- Slim and compact design
- High dynamic and holding torque
- Low noise
- Stiffness and precision

Cluster design freedom



- **Shaftless**
 - High illumination efficiency
 - Homogeneity of light at any angular position of the pointer
 - Pointer cap diameter reduced to 8 mm due to light concentration in the hub
- **Dual**
 - Information density
 - Independent movement of two concentric output shafts

Sonceboz, proven expertise:



Automated processes



- **Fully automated:**
 - coil winding and stator assembly
 - plastic injection moulding
 - motor assembly
- 100% end of line test
- Lean manufacturing

Worldwide leader



- Active with 80% worldwide instrument cluster manufacturers
- Present in almost all vehicle brands
- Swiss made, shipped to all continents

Your **benefits**

- *Worldwide support with innovative solutions*
- *Excellent reliability and robustness*
- *Flexibility in application design*
- *Process and system cost savings*
- *Risk-free quality*



SONCEBOZ

A family-owned company
since 1936

Our core competencies consist of design, development and production of **mechatronic drive systems** and **electric motors** that operate in **harsh environments**.

We are committed to improving safety, decreasing energy consumption and minimizing the impact on the environment. Our focus on **innovation, best in class quality** and **exceptional service** is our key to success for worldwide OEM customers and their suppliers.

Your contact for cockpit solutions
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