

KEY DATA - XBC

PARAMETER	DATA
Max. caliper volume supported	15 cm ³
Max. output pressure	120 bar
Max. pressure without damage	180 bar
Max. local pressure gradient	> 600 bar/sec
Time to lock (0 to 80 bar)	< 150 ms
Time to release (80 to 0 bar)	< 150 ms
Pressure control accuracy (constant target @ 100 bar)	+/- 1 bar
System input voltage	10 - 18 V
Max. power consumption	800 W
Packaging Volume	< 4 L
System mass	< 4,5 kg



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VISIT [XBC-TECHNOLOGY.COM](https://www.lsp-ias.com)
FOR MORE INFORMATION



XBC / BRAKE BY WIRE SYSTEM
Redundancy and Safety



LSP Innovative Automotive Systems GmbH

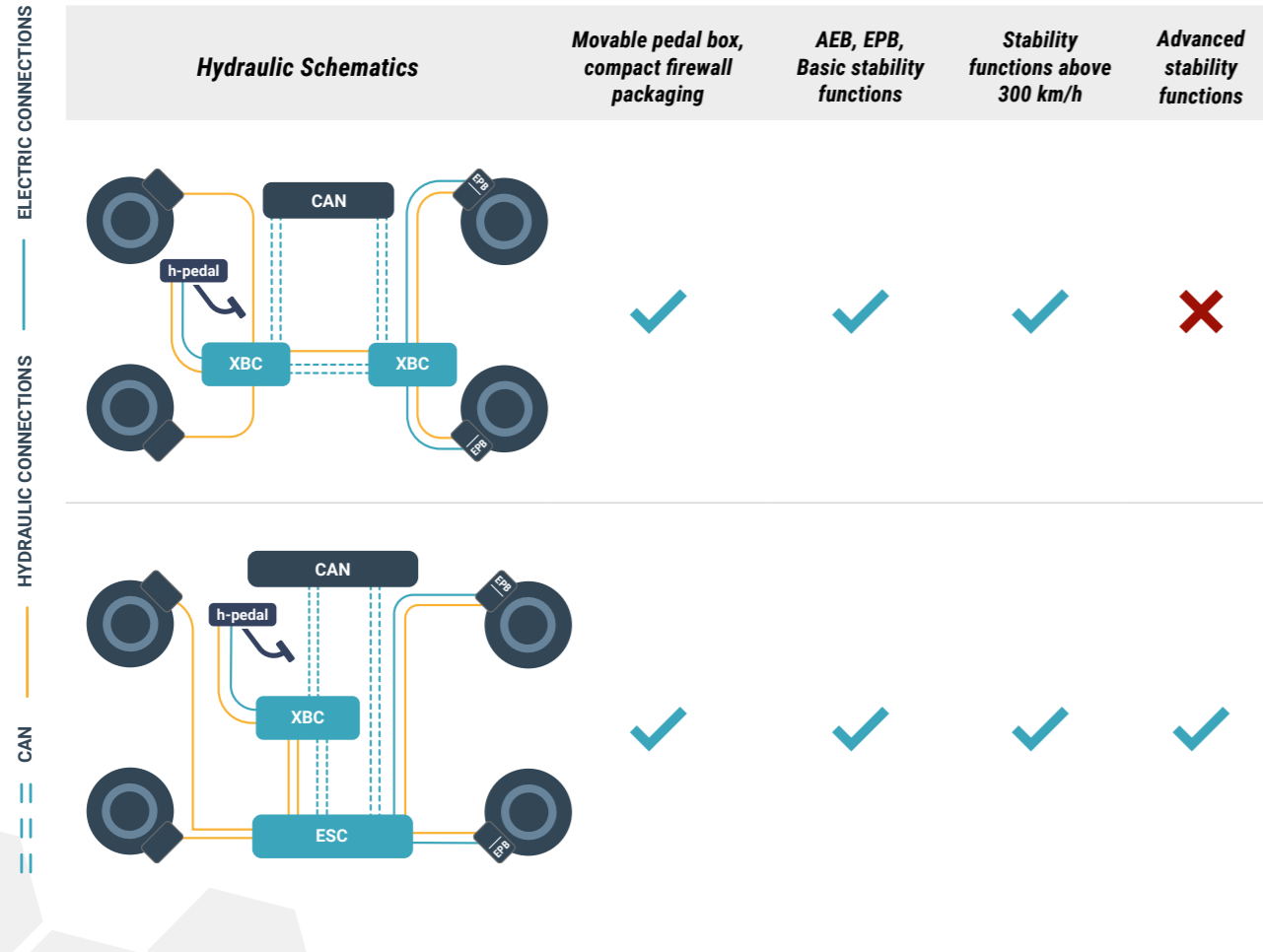
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HIGH-PERFORMANCE, HIGH-EFFICIENT BRAKING WITH COMPACT DESIGN

LSP's XBC system integrates decades of braking expertise into a lightweight, high-performance solution engineered for hypercars—offering exceptional efficiency, precise control, and seamless integration with advanced vehicle dynamics for maximum driving performance and safety.



SMART BRAKING FOR HYPERCARS – LIGHTWEIGHT, EFFICIENT, AND INTEGRATED FOR PEAK DYNAMIC CONTROL



BENCHMARK IN BRAKING PERFORMANCE

Precise monitoring of pressure-to-volume characteristics
 Numerous diagnostic functions and pre-drive checks
 Enhanced efficiency with full 2-axle regen, maximizing energy savings

BEST IN CLASS FEATURES

- Robust Diagnostics:** Real-time safety and fault checks
- Compact Packaging**
- AEB:** Faster time to lock of < 150 ms (caliper dependent)
- Better adhesion utilisation:** Pressure ramp gradients of > 600 bar/s
- Low Noise levels**
- Pedal Flexibility:** Remote e-Pedal and h-Pedal integration allowing use of movable pedal box
- Pedal / brake Feel Tunability:** Adaptable brake pedal feedback and force curve
- Zero Brake Drag:** Innovative design offers zero brake drag and in turn low emissions
- Stability function at speeds above 300 kmph**

FULL SYSTEM MODULARITY

- Scalability of system parameters
- Low system calibration efforts
- A variety of hydraulic layouts
- Ready for autonomous driving