i3HU is an extremely compact, lightweight and robust intelligent hydraulic unit concept in development that combines electronic brake control and hydraulic supply and control functions in one single unit. Designed for the demanding operating conditions of modern public transportation systems, it is suited to a wide range of vehicle types. Its high power density, modular extendable system layout, connectivity and data management features make it a perfect choice for hydraulic railway brake systems.

CUSTOMER BENEFITS
- Compact electro-hydraulic unit with integrated brake electronics
- Direct BUS connection to consist network integrated
- Simplified and standardized electrical interface
- Reduced wiring
- Bogie-based data processing and management

APPLICATIONS
- Light rail vehicles
- Metros
- Monorails
- People movers
i3HU INTELLIGENT ELECTRO-HYDRAULIC UNIT

Architecture / Interfaces
- Modular extendable system features
- Electrical Interfaces: simplified and standardized electrical interface, two BUS interfaces, hardwired standalone
- Mechanical/hydraulic interfaces: one compact design for different brake applications – active/passive

Maintenance and Life Cycle
- Bogie-based data processing and management
- Designed for condition-based management approach (iCOM-ready)
- Self diagnosis integrated

Connectivity
- Direct BUS connection to consist network integrated
- Direct support of CAN and Ethernet networks
- Control/service/maintenance status via BUS available

Performance
- Size reduction by up to 60% on product level
- Weight reduction by up to 40% on product level
- Brake electronics integrated
- Wiring reduced by up to 40%
- High power density
- Reduction of oil volume by up to 15%
- 15% reduced Carbon Footprint within the whole life cycle (from cradle to grave) compared to Electro Hydraulic Unit, Type: HGE

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