

BLACK BOX[®] HYDRAULIC DAS

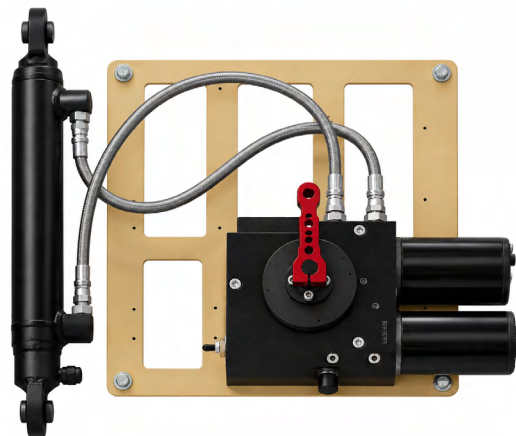
THE ULTIMATE DOOR OPENER

Automated Door and Hatch Actuation for Tactical and Armored Vehicles

The Black Box[®] Hydraulic Door Assist System represents the next generation of NPC's proven door automation technology. Integrating the motor, hydraulic pump, controls, and reservoir into a compact, all-in-one package, the system delivers reliable operation in any mounting orientation while minimizing installation space and complexity. Capable of opening doors weighing up to 2,200 lbs to an 80° position in just 9 seconds, even on a 30% side slope, the Black Box[®] combines enhanced performance with reduced weight, a thinner profile, improved durability, programmed by the manufacturer to meet vehicle specific needs, and integrated emergency bypass functionality. Rigorously tested at Aberdeen and Yuma Proving Grounds, the Black Box[®] is engineered for the demanding environments of today's tactical and armored vehicles.

APPLICATIONS

- › DOOR ASSIST SYSTEMS
- › LARGE HATCH OPENING/CLOSING
- › RAMP EXTENSIONS
- › M915A5 B-KIT APPLICATIONS
- › RESCUE EXTRACTION POWER PACKS
- › HYDRAULIC JACK SYSTEMS



NPC Robotics is a trusted provider of electric and hydraulic motion control systems for military and commercial platforms with over 100,000 systems in use. Our patented, award-winning technologies support mission-critical applications worldwide, with solutions ranging from configurable COTS products to fully customized systems engineered to meet unique operational requirements. By managing design, prototyping, testing, manufacturing, deployment, and lifecycle support under one roof, NPC reduces integration risk, simplifies procurement, and delivers reliable solutions that perform in the most demanding environments.

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BLACK BOX® HYDRAULIC DAS

KEY FEATURES

Opens doors up to 2,200 lbs with integrated power, controls + safety systems in a compact, vehicle-ready package



Designed for Easy Integration and Build

- Fits into unused space (door cavity)
- Customizable COTS (as requested)
- Design and installation support
- Flexible kitting options
- Rapid system installation
- Streamlined logistic/support
- OEM-enhanced one-year warranty
- TRL-9, qualified for armored vehicles
- Passed blast testing on multiple vehicles



System Specifications

- Self-contained power, recharge via 2.5 amp bus
- Dimensions/Weight: 12.5" x 6.5" x 3.25", 47 lbs
- Opens 2,200 lb door
- 80° opening
- 9-second actuation
- 30% side slope operation
- Typical open/close speed of 1" per second
- Positive pressure reservoir
- Can be ported for either left- or right-hand door
- Meets vehicle environmental specifications



Integrated Safety Factors

- System operates with vehicle on all required slopes
- Interior and exterior controls (interior takes priority)
- Safety strips, stop and reverse (pinch protection)
- Independent power supply operates apart from vehicle power
- Interior emergency bypass
- Through-door emergency bypass
- Self-powered via integrated battery
- Battle latch sensing
- E-stop



Single Part Number for Complete System

Hydraulics, Control, Safety Components, Installation Mounting, Cabling, Instructions