Innovative Motion Control & Energy Management Solutions
**The Haldex Group**

**provides proprietary and innovative solutions to the vehicle industry on a global basis**

Haldex is a world-class company recognized as a credible and long-term option of first choice by major OEMs in the vehicle industry. Staying on the cutting edge of technology and maintaining solid business ethics allows Haldex to attract and cultivate skilled and motivated employees. With facilities in North America, South America, Europe and Asia, Haldex is positioned to provide state-of-the-art solutions to our customers worldwide.

**Four business areas**

We focus on products that improve safety, vehicle dynamics and the environment within the following categories:

- Brake systems for heavy vehicles
- AWD systems for automobiles
- Power systems for off-road vehicles and trucks
- Products for combustion engines
The Haldex Hydraulics Division builds on its motion control and energy management expertise to provide solutions that improve vehicle performance while reducing energy consumption and emissions

Proven solution provider
We provide value by offering precisely matched solutions to specific customer requirements. We are focused on establishing and maintaining long-term relationships with customers within our strategic markets. Our reputation for developing innovative approaches to vehicle hydraulic systems keeps our customers coming back confident that they will get systems tailored to their specific needs.

Best-in-class practices
Our adherence to sophisticated statistical process controls and quality assurance initiatives results in the design and assembly of products with the tightest tolerances and the highest performance possible.

Global manufacturing
Haldex production facilities are strategically located in the U.S., Sweden and Germany providing our customers with single source convenience worldwide. Modular component designs allow many of our products to be assembled at multiple plants.

Superior quality and service
We are committed to meet or exceed customer requirements and continually improve customer satisfaction. Our Quality Management System (QMS) is a comprehensive tool which conforms to a TS 16949 structure and allows our management and employee teams to constantly monitor key performance indicators. The Haldex Hydraulics Division is ISO9001-2000 and ISO 14001 certified.

Continuous improvement
Haldex Way is the Haldex Group and the Hydraulics Division’s formal continuous improvement program. It is a multi-tiered achievement structure by which all Haldex divisions are measured. Haldex Way is founded on 3 core values: Customer First, Respect for the Individual and Elimination of Waste. Our commitment to improvement is supported and monitored by top management and reinforced with vigorous employee training programs.

G20/30 Series Pumps
Rugged cast iron G20/30 pumps perform up to 4,000psi at speeds up to 3,600 rpm with high volumetric efficiency. Displacements range from 23 cc to 161 cc. Single, double, triple and thru-drive models are designed for construction, truck, material handling, forestry and turf care applications.
Developing market driven new product technologies is a key element of our business

At Haldex, our New Product Development (NPD) teams are dedicated to the rapid development and release of new products, enhanced product features and technological innovations. These global, cross functional teams manage projects via a toll gate system which keeps projects on track and requires management approval at various phases of development.

Design teams utilize a variety of technologically advanced tools including our engineering lab, CAD, solid modeling, finite analysis computational fluid dynamics, rapid prototyping and failure mode effects analysis (FMEA). Our goal is to give our customers a competitive edge by providing cost-effective solutions.

Application engineering expertise

By working with OEM vehicle designers, our applications specialists capture detailed machine and system data to help them develop value-added solutions suited to the specific design criteria driving each vehicle. Our product realization process insure that our applications team works efficiently while focusing on meeting the specific needs of the customer.
An oil mist separator, Alfdex creates a powerful centrifugal force of 2500 G’s to separate oil and other contaminants from crankcase gases. Cleaning efficiency exceeds 98%. Alfdex is easily adapted to any diesel engine and requires no filters or maintenance.
Haldex provides value-driven, precisely matched solutions designed to meet your specific needs

Our approach is to fully understand how our systems function and how they integrate as a part of the total vehicle. We design our products to help increase the overall performance and operating efficiency of our customers’ vehicles while reducing noise and emission levels.

Comprehensive product offering

Haldex is a gear product specialist. We supply these products for steer and lift systems on forklifts, construction equipment, trucks, buses, turf care equipment and aerial man lifts. We also supply specialty gear products for fuel transfer, crankcase ventilation, transmission lubrication and fan drives on diesel engines.

HE Series Power Packs

Low noise operation and efficiency are key drivers for hydraulic power pack applications. HE Series Power Packs can be designed to be easily customized for any application requiring quiet, efficient power. Our Universal Technical Platform allows for modular components to be assembled in virtually any combination at Haldex manufacturing facilities worldwide.
Focused on integration capability for special applications

- Electrohydraulic Lifting Systems
- Electrohydraulic Power Steering Systems
- Auxiliary Brake and Supplementary Steering Systems
- Turf Care Rotor Drive Systems
- Cooling Fan Drive Systems
- Engine lubrication, transmission lubrication, clutch actuation, axil cooling pumps
- Fuel Transfer on Diesel Engines
- Crank case gas cleaning systems
- EGR control systems

Now and in the future, Haldex is committed to offering solutions that improve vehicle performance, reduce energy consumption and reduce vehicle emissions.
Haldex Hydraulics...
Striving to provide value through operational excellence

Operational Excellence has become the mantra at Haldex

Our channel-based production facilities utilize lean manufacturing techniques. Self-directed work teams are empowered to help continuously develop and make improvements to their work processes as well as keeping their work areas clean and organized. Regular meetings with all team members are held in the work area to review key performance indicators (KPI's).
The Haldex Way …
A Global Focus On Operational Excellence

The Haldex Way is founded on three core values:
• Putting the customer first
• Nurturing respect for the individual
• Eliminating waste

Our teams operate in an open, honest, real time environment that emphasizes simplicity and consistency while striving for continuous improvement. Leadership is extremely supportive and our employees are encouraged to challenge results. We employ a number of methodologies and tools, including Six Sigma and Statistical Process Control, to support our continuous improvement culture.

Operational Excellence
focused on Supply Chain Improvement

Our philosophy is to partner with our top suppliers in a relationship that challenges both of us to set higher standards and continuously improve value to our customers in the following areas:
• Quality
• Delivery
• Value/Cost
• Compliance/Support

W-Series Pumps

The W-Series pump was engineered to meet the most demanding operating parameters defined by our customers. More recently, the WQ pump was introduced to meet the increasing requirements for low noise operation. WQ pumps provide the same high operating efficiency of the W-Series but with significantly reduced pressure pulsation.
We’re committed to our customers, our dedicated employees and good global citizenship

Our core values are based on supporting our customers, employees, communities and shareholders

We provide value to our customers with...

Products that employ innovative technology, improve operational safety and lower lifetime costs.
Attitude that shows flexibility to customer needs and provides fast, accurate response.
Business Practices that display long-term commitment, have integrity, high ethical standards and promote long-term customer loyalty.

We maintain a high level of environmental awareness.

We are committed to the prevention of pollution and systematically work to reduce any environmental impact our operations and those of our suppliers may cause including energy consumption, materials utilized, air and water emissions and the generation of waste and noise. All Haldex Hydraulics manufacturing facilities are certified to the ISO 14001 environmental management system.

Also, by collaborating with leading manufacturers, we strive to successfully engineer products that make positive contributions toward reducing vehicle emissions without sacrificing performance.

GC Series Pumps

Designed for reliability and long life, these cast iron gear pumps allow a specifier to custom assemble a complete system. GC Series Pump flexibility and performance have been proven for years in a wide range of applications including aerial lifts, agricultural and construction equipment and material handling equipment.
We treat our employees with respect and support them with professional development programs and good working conditions

State-of-the-art manufacturing technologies and processes are critical but the foundation of any manufacturing organization is its people.

Our goal is to attract people with exceptional skills and talents then nurture career development and encourage them to establish a good balance between work, family and community...all designed to promote long-term employment.

We provide value to our shareholders with timely communications and profitable growth

We continue to exceed industry average profitable growth through innovative product development, market expansion and acquisitions. Our focus on continuous improvement also contributes to our success with enhanced operating efficiency and reduced waste.

We support our communities through local involvement, relief aid and sponsorships

Haldex regularly contributes to organizations which provide relief aid around the world. We also sponsor various events such as the Dakar Rally and Super Truck Racing Series. Haldex also sponsors the SS Searcher, a sailing vessel mainly dedicated to environmental research in and around the world’s oceans.

We also encourage our employees to support local charities such as The United Way and participate in local community events including blood drives, Habitat for Humanity and walk-a-thons, etc.
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